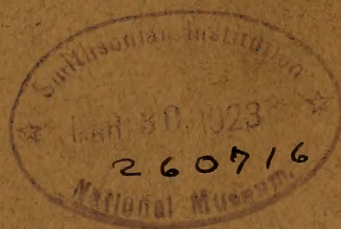


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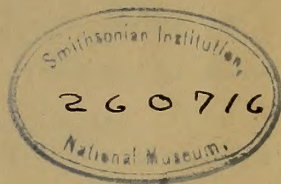
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- A. G. A. Railway Light & Signal Co. (See Meden, Elof H., assignor.)
A. P. W. Paper Co. (See Crandell, Willis S., assignor.)
A/S de Norske Saltverker. (See Isaachsen, Isak, assignor.)
A/S Hiorth's Elektriske, Induktionsovn. (See Hiorth, Albert, assignor.)
A/S Høyangfaldene Norsk Aluminium Co. (See Peder-sen, Harald, assignor.)
A/S Labrador. (See Mejdell, Thor, assignor.)
A/S Perkussion. (See Brøndby, Fridtjof N., assignor.)
A/S Separator. (See Holte, Halvor, assignor.)
Aagaard, Otto W., Chicago, Ill. Cushion for telephone re-
ceivers. No. 1,423,340; Aug. 22.
Aalborg, Christian, Wilkensburg, Pa., assignor to West-
inghouse Electric & Manufacturing Company. Latching
device. No. 1,432,433; Oct. 17.
Aalborg, Christian, Pittsburgh, and A. H. Bakken, Edge-
wood Park, Pa., assignors to Westinghouse Electric &
Manufacturing Company. Circuit interrupter. No.
1,437,079; Nov. 28.
Aarup, Hans C., Springfield, Ill. Air compressor. No.
1,422,070; July 11.
Aass, Hjalmar, Christiania, Norway. Automatic cock
valve. No. 1,435,781; Nov. 14.
Abare, Roy, Chazy, N. Y. Slide protractor. No. 1,417,878;
May 30.
Abbe, Charles C. (See Allen, W. A., and Abbe.)
Abbott, Adrian O., Jr., Detroit, Mich., assignor to Morgan
& Wright. Attachment for mixing mills. No.
1,405,383; Feb. 7.
Abbott, Adrian O., Jr., Detroit, Mich., assignor to Morgan
& Wright. Gauge. No. 1,409,907; Mar. 21.
Abbott, Adrian O., Jr., Detroit, Mich., assignor to Mor-
gan & Wright. Mold for heavy-truck tire flaps. No.
1,420,803; June 27.
Abbott, Adrian O., Jr., Detroit, Mich., assignor to Morgan
& Wright. Mold-opening device. No. 1,424,791; Aug. 8.
Abbott, Augustus, assignor, by mesne assignments, to The
Universal Device Company, Denver, Colo. Coin count-
ing and wrapping device. No. 1,406,958; Feb. 21.
Abbott, Augustus, Denver, Colo., assignor to The Uni-
versal Device Company. Coin counting and wrapping
device. No. 1,406,959; Feb. 21.
Abbott, Cecil C., Harbor Springs, W. E. Bassett and B. L.
Bassett, assignors of one-fourth to I. L. Bassett, De-
troit, Mich. Fire escape. No. 1,419,532; June 13.
Abbott, Cecil C., Harbor Springs, W. E., B. L., and I. L.
Bassett, Detroit, Mich. Fire escape. No. 1,435,366;
Nov. 14.
Abbott, Charles C., Pittsfield, Mass., assignor to General
Electric Company. Heating unit. No. 1,432,434;
Oct. 17.
Abbott, Charles C., Pittsfield, Mass., assignor to General
Electric Company. Electric terminal. No. 1,432,435;
Oct. 17.
Abbott, Chauncey W., assignor to American Wiremold
Company, Hartford, Conn. Carton for flexible conduits.
No. 1,431,352; Oct. 10.
Abbott, Christopher R., Anderson, Ind. Furnace control
mechanism. No. 1,428,516; Sept. 12.
Abbott, Daniel A., Greater Capitol Heights, Md. Spark
plug. No. 1,429,821; Sept. 19.
Abbott, Ezekiel S., Detroit, Mich. Railway crossing.
No. 1,417,964; May 30.
Abbott, Frank E., Coalinga, Calif. Guard for hooks.
No. 1,411,549; Apr. 4.
Abbott, Frank E., Oilfields, Calif. Polish for varnished
and painted surfaces. No. 1,411,550; Apr. 4.
Abbott, Frank F. (See Schnable, G. L., and Abbott.)
Abbott, Franklin E., Buffalo, assignor to Lackawanna
Steel Company, Lackawanna, N. Y. Tie plate. No.
1,425,309; Aug. 8.
Abbott, Franklin E., Buffalo, assignor to Lackawanna
Steel Company, Lackawanna, N. Y. Tie plate. No.
1,425,310; Aug. 8.
Abbott Incorporated. (See Abbott, William E., assignor.)
Abbott, Incorporated. (See Horstkotte, G. A., assignor.)
Abbott Laboratories, The. (See Biehn, Joseph F., as-
signor.)
Abbott Laboratories. (See Burdick, A. S., and Vliet,
assignors.)
Abbott, Tom, Pontyclun, Llantrisant, Wales. Means for
mechanically oiling the wheels of tramway and like
vehicles. No. 1,416,668; May 23.
Abbott, William E., assignor to Abbott Incorporated,
Bend, Oreg. Radiator funnel. No. 1,420,011; June 20.
Abbott, William E., assignor to Abbott Incorporated, Bend,
Oreg. Washboard. No. 1,427,048; Aug. 22.
Abe, Seikichi, Los Angeles, Calif. Sleeve holder. No.
1,425,434; Aug. 8.
Abegg, Walter A., Los Angeles, Calif. Socket wrench.
No. 1,422,067; July 11.
Abele, Joseph B., Philadelphia, Pa. Game. No. 1,421,656;
July 4.
Abell, Arthur, Salem, Mass., assignor of one-third to J.
Horton, New York, N. Y., and one-third to W. H. Mc-
Sweeney, Salem, Mass. Lock. No. 1,433,591; Oct. 31.
Abell, Harry C. (See Batchelor, Harold, assignor.)
Abell, Rollin, Milton, Mass. Coaster brake. No.
1,413,952; Apr. 25.
Abell, Rollin, Milton, Mass. Liquid-fuel motor. No.
1,424,705; Aug. 1.
Abell, William R., Marbury, Md. Brake. No. 1,428,673;
Sept. 12.
Abendroth, Elmer T., De Pere, Wis., assignor to Hudson
Manufacturing Company, Minneapolis, Minn. Pail
holder. No. 1,429,917; Sept. 26.
Abendschein, Frederick H., Yonkers, N. Y. Piano action.
No. 1,435,442; Nov. 14.
Abercrombie, Charles M., Bridgeport, Conn., assignor to
The Singer Manufacturing Company, Elizabeth, N. J.
Sewing machine. No. 1,424,706; Aug. 1.
Abercrombie, James R., Siloam Springs, Ark. Rim re-
ducing and expanding implement. No. 1,428,674;
Sept. 12.
Abigt, William, Evansville, Ind. Hot-air furnace. No.
1,431,075; Oct. 3.
Ablahadian, Elezea C., Glendale, Calif. Chemical-labora-
tory apparatus. No. 1,435,367; Nov. 14.
Able, George D., St. Louis, Mo. Garment supporter. No.
1,412,033; Apr. 11.
Aborn, Edward, East Orange, N. J. Filter coffeepot. No.
1,440,047; Dec. 26.
Aborn, George P., Brookline, Mass., assignor to Worthing-
ton Pump and Machinery Corporation. Engine valve.
No. 1,427,767; Sept. 5.
Aborn, George P., Brookline, Mass., assignor to Worthing-
ton Pump and Machinery Corporation. Engine valve.
No. 1,435,191; Nov. 14.
Abraham, Clinton D., deceased, by Chester H. Ross, ad-
ministrator, assignor to E. I. du Pont de Nemours &
Company, Wilmington, Del. Material for mine-venti-
lating tubing. No. 1,432,585; Oct. 17.
Abraham, Herbert, New York, N. Y., assignor to The
Ruberoid Company. Shingle. No. 1,438,571; Dec. 12.
Abraham, Herbert, New York, N. Y., assignor to The Rub-
eroid Co. Strip shingle. (Reissue.) No. 15,280;
Feb. 7.
Abraham, Herbert, New York, N. Y., assignor to The
Ruberoid Company. Interlocking shingle. No.
1,410,867; Mar. 28.
Abraham, Herbert, New York, N. Y., assignor to The Rub-
eroid Co. Strip-shingle cutter. No. 1,415,753; May 9.
Abraham, John, Vancouver, British Columbia, Canada.
Towing hook. No. 1,417,222; May 23.
Abraham, Walter R., Oshkosh, Wis. Ice-cream-brick-cut-
ting machine. No. 1,436,001; Nov. 21.
Abraham & Straus Inc. (See Blum, Edward C., assignor.)
Abrahams, Charles, Brooklyn, assignor to J. Abrahams,
New York, N. Y. Depth or liquid-level gauge. No.
1,428,576; Sept. 12.
Abrahams, Jacob. (See Abrahams, Charles, assignor.)
Abrahams, Julius, Millbourne, Pa. Making photographic
prints. No. 1,410,151; Mar. 21.

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- Abrahams, Julius, Millbourne, Pa. Brush pad. No. 1,434,183; Oct. 31.
- Abrahamson, Delia F., Chicago, Ill. Knee protector. No. 1,440,121; Dec. 26.
- Abramchuk, Joseph A., Rossburn, Manitoba, Canada. Sleigh brake. No. 1,429,995; Sept. 26.
- Abramowitz, Joseph, Madison, Ill. Arch support. No. 1,418,048; May 30.
- Abrams, Arthur J., Chicago, Ill., assignor of one-quarter to M. J. Mintz, one-quarter to C. Greinert, and one-quarter to W. Engels, New York, N. Y. Music score for motion pictures. No. 1,409,351; Mar. 14.
- Abrams, Isaac, Jersey City, N. J. Vest, jacket, and the like. No. 1,421,131; June 27.
- Abrams, John M., Brooklyn, N. Y. Resilient tire. No. 1,401,948; Jan. 3.
- Abrams, John M., Brooklyn, N. Y. Screw cap. No. 1,421,885; July 4.
- Abramsen, Petter B., Dormont, Pa. Mechanical doubler for sheet and tin plates. No. 1,434,470; Nov. 7.
- Abramson, Louis A., New York, N. Y. Closure for doorways. No. 1,415,854; May 16.
- Abramson, Nathan, New York, N. Y. Electric time switch. No. 1,420,902; June 27.
- Abrasive Company. (See Brockbank, Clarence J., assignor.)
- Abrell, Charles, Redding, Calif. Tableware. No. 1,406,135; Feb. 7.
- Abt, Hugo A. F., Chicago, Ill. Bascule bridge. No. 1,412,327; Apr. 11.
- Abt, Hugo A. F., Chicago, Ill. Bascule bridge. No. 1,412,328; Apr. 11.
- Academy Club Toy Making. (See Stewart, D. N., and Williams, assignors.)
- Accessories Manufacturing Company. (See Bramming, Carl, assignor.)
- Accles, James G., Birmingham, England. Pistol such as is used for slaughtering purposes. No. 1,435,573; Nov. 14.
- Ace Magneto Company, The. (See Putt, Harlie O., assignor.)
- Acer, Herbert A., Medina, N. Y. Furnace pipe. No. 1,429,822; Sept. 19.
- Achelpohl, John W. (See Hammond, H. D., Achelpohl, and Leslie.)
- Achenbach, Lewis H., Pottsville, Pa. Bee feeder. No. 1,426,701; Aug. 22.
- Acheson Corporation. (See Acheson, George W., assignor.)
- Acheson, Edward G., New York, N. Y. Paper product and making the same. No. 1,419,951; June 20.
- Acheson, Edward G., New York, N. Y. Soap composition and making same. No. 1,419,952; June 20.
- Acheson, George W., Newark, N. J., assignor to Acheson Corporation, New York, N. Y. Preparing pigment oil compositions. No. 1,431,079; Oct. 3.
- Acheson, George W., Newark, N. J., assignor to Acheson Corporation, New York, N. Y. Preparing varnishes. No. 1,431,080; Oct. 3.
- Acheson, George W., Newark, N. J., assignor to Acheson Corporation, New York, N. Y. Lake and preparing same. No. 1,431,081; Oct. 3.
- Acheson Graphite Company. (See Mardick, John R., assignor.)
- Achtmeyer, William, Middletown, Conn. Friction composition and making same. No. 1,418,607; June 6.
- Achtmeyer, William, Middletown, Conn. Condensation product of phenol and formaldehyde and making same. No. 1,429,265; Sept. 19.
- Achtmeyer, William, Middletown, Conn. Disk clutch facing and making same. No. 1,429,266; Sept. 19.
- Achtmeyer, William, Middletown, Conn. Phenolic condensation product and making same. No. 1,429,267; Sept. 19.
- Acid, Gabriel, Butte, Mont. Dirigible headlight. No. 1,411,147; Mar. 28.
- Acken, Wiley S., Jersey City, N. J., assignor to Robins Conveying Belt Company. Screening apparatus. No. 1,418,899; June 6.
- Acker, Edna H., assignor to S. N. Acker, Washington, D. C. Theatrical appliance. No. 1,419,191; June 13.
- Acker, Edwin. (See Kunert, F., and Acker.)
- Acker, Samuel N. (See Acker, Edna H., assignor.)
- Ackerberg, Carl, assignor to Challoner Company, Oshkosh, Wis. Means for securing anti-skid chains to vehicle wheels. No. 1,424,971; Aug. 8.
- Ackerman, Charles N., Chicago, Ill., assignor to Ackerman-Johnson Co. Screw-holding anchor. No. 1,416,433; May 16.
- Ackerman, Clemens W., Chicago, Ill., assignor to Frog Switch and Manufacturing Company, Carlisle, Pa. Rock crusher. No. 1,424,792; Aug. 8.
- Ackerman, Frank, St. Louis, assignor to Curtis & Co. Mfg. Co., Wellston, Mo. Lubricating system for piston machines. No. 1,435,574; Nov. 14.
- Ackerman, Frank E., St. Paul, Minn. Mechanical hoist. No. 1,423,638; July 25.
- Ackerman, George F., Erie, Pa. Machine for forming forged rings. No. 1,432,228; Oct. 17.
- Ackerman, Henry F., and J. F. Habben, Palmer, Iowa. Radiator. No. 1,405,381; Feb. 7.
- Ackerman-Johnson Co. (See Ackerman, Charles N., assignor.)
- Ackerman, Robert, assignor to Hudson Manufacturing Company, Minneapolis, Minn. Clamping device for drinking bowls. No. 1,428,577; Sept. 12.
- Ackermann, Adelrich, Reiden, Switzerland. Parachute. No. 1,406,521; Feb. 14.
- Ackermann, Frank, et al. (See Gould, Herman, assignor.)
- Ackermann, Frank B. (See Steffan, W. C. Ackermann, and Greiner.)
- Ackermann, Franz. (See Steinbuch, E., Ackermann, and Utzinger.)
- Ackermann Manufacturing Company. (See Peyser, Joseph, assignor.)
- Ackermann, William E., Portsmouth, Ohio. Expanded metal structure. No. 1,419,709; June 13.
- Ackers, Lewis J., et al. (See Barbour, Otho A., assignor.)
- Acland, Edward H., Toronto, Ontario, Canada. Guard for billiard-table pockets. No. 1,421,361; July 4.
- Ackley, Fred D., Kirkland, Wash. Carburetor. No. 1,428,200; Sept. 5.
- Ackley, Fred D., Kirkland, Wash. Carburetor. No. 1,435,043; Nov. 7.
- Ackroyd, Robert E., Northampton, England. Device for increasing combustion in fireplaces. No. 1,430,781; Oct. 3.
- Acme Accessories Corporation. (See Twombly, Willard I., assignor.)
- Acme Artificial Silk Company, The. (See Huttering, Charles A., assignor.)
- Acme Die Casting Corporation. (See Bungay, George W., assignor.)
- Acme Electric Heating Company. (See Rice, George A., assignor.)
- Acme Electric & Mfg. Co., The. (See Bunch, Charles H., assignor.)
- Acme Motor Shield Corporation. (See McMullen, Joseph B., assignor.)
- Acme Shear Company, The. (See Conway, J. J., and Koehler, assignors.)
- Acme Shear Company, The. (See Wheeler, David C., assignor.)
- Acme Wire Company, The. (See Balke, William H., assignor.)
- Accocella, Gabriele, Montreal, Quebec, Canada. Surgical instrument. No. 1,438,080; Dec. 5.
- Actien Gesellschaft für Anilin Fabrikation. (See Deichen, Jens, assignor.)
- Actien Gesellschaft für Anilin Fabrikation. (See Geldermann, H. and Meyer, assignors.)
- Actien Gesellschaft für Anilin Fabrikation. (See Goldberg, P., Onnertz, and Peters, assignors.)
- Actien Gesellschaft für Anilin Fabrikation. (See Haugwitz, Rudolf, assignor.)
- Actien Gesellschaft für Anilin Fabrikation. (See Herzberg, W., and Hoppe, assignors.)
- Actien Gesellschaft für Anilin Fabrikation. (See Herzberg, W., and Scharfenberg, assignors.)
- Actien Gesellschaft für Anilin Fabrikation. (See Kaltwasser, O., and Oehrn.)
- Actien Gesellschaft für Anilin Fabrikation. (See Lange, Werner, assignor.)
- Actien Gesellschaft für Anilin Fabrikation. (See Löffler, Reinhold, assignor.)
- Actien Gesellschaft für Anilin Fabrikation. (See Onnertz, Paul, assignor.)
- Actien Gesellschaft für Anilin Fabrikation. (See Schöner, B., and Siebert, assignors.)
- Acton, Walter, and W. M. MacKean, Paisley, Scotland. Separation of solids from liquids. No. 1,435,886; Nov. 14.
- Acuff, Frank E., Chicago, Ill. Valve mechanism. No. 1,421,132; June 27.
- Adachi, Keijiro. (See Nakayama, M., and Adachi.)
- Adair, Samuel E., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical coil. No. 1,409,852; Mar. 14.
- Adam, Henri V., Djocoja, Java. Automatic weighing machine. No. 1,416,312; May 16.
- Adam, Joel U., Cincinnati, Ohio. Truss. No. 1,435,368; Nov. 14.
- Adam, Joseph F., Marengo, Saskatchewan, Canada. Attachment for shovels. No. 1,426,442; Aug. 22.
- Adam, Matthew A. (See Legg, David A., assignor.)
- Adam, Matthew A., London, England. Treatment of cellulose or material containing cellulose. No. 1,402,201; Jan. 3.
- Adamczyk, Stanley, Chicopee, Mass. Rubber heel. No. 1,436,930; Nov. 28.
- Adamek, Antone J., Orient, S. Dak. Sickle-blade holder. No. 1,434,644; Nov. 7.
- Adams, Aaron M., and M. W. Landau, Philadelphia, Pa. Cap-size-reducing device. No. 1,409,810; Mar. 14.
- Adams, Arthur H., Sparkill, assignor to Western Electric Company, Incorporated, New York, N. Y. Printing telegraph. No. 1,401,950; Jan. 3.
- Adams, Arthur H., Gallion, Ohio, assignor to Western Electric Company, Incorporated, New York, N. Y. Printing telegraph. No. 1,426,803; Aug. 22.
- Adams, Arthur H., Gallion, Ohio, assignor to Western Electric Company, Incorporated, New York, N. Y. Typewriter. No. 1,426,804; Aug. 22.
- Adams-Bach Hdkf. Mfg. Co. (See Bach, Irvin S., assignor.)
- Adams, Benjamin F. (See Williams, F. B., and Adams.)
- Adams, Carleton C. (See Grob, A. R., and Adams.)

Alphabetical list of patentees—Continued.

- Adams, Charles F., Swampscott, Mass., assignor to Hamel Shoe Machinery Company. Lasting machine. No. 1,412,032; Apr. 11.
- Adams, Charles F., Swampscott, assignor to Hamel Shoe Machinery Company, Lynn, Mass. Lasting machine. No. 1,413,697; Apr. 25.
- Adams, Charles F., Swampscott, Mass., assignor to Hamel Shoe Machinery Company, Bridgeport, Conn. Bed-laster end clasp. No. 1,422,806; July 11.
- Adams, Charles H. (See James, E. R., and Adams.)
- Adams, Charles S., assignor to Rice & Adams Corporation, Buffalo, N. Y. Washing machine. No. 1,421,055; June 27.
- Adams, Claud W., Worcester, Mass. Coin-controlled bottle vending and ejecting mechanism. No. 1,437,741; Dec. 5.
- Adams, Dickson, Canton, Ohio. Collapsible crate or box. No. 1,427,766; Sept. 5.
- Adams, Earl E., Glendale, Calif. Steering-wheel lock. No. 1,409,640; Mar. 14.
- Adams, Edward M. (See Quam, James P., assignor.)
- Adams, Edward T., Syracuse, N. Y., assignor to Humphrey Gas Pump Company. Fuel feed. No. 1,409,991; Mar. 21.
- Adams, Ellwood S. (See Eisenhard, Frank, assignor.)
- Adams, Francis S., Anaconda, Mont. Process of and apparatus for precipitating copper from solutions. No. 1,430,140; Sept. 26.
- Adams, Frank A., Rochester, assignor to B. C. Olney, Rome, and F. C. Dailey, Rochester, N. Y. Clothes-washing machine. No. 1,406,136; Feb. 7.
- Adams, Frank A., Rochester, assignor to B. C. Olney, Rome, and F. C. Dailey, Rochester, N. Y. Clothes-washing machine. No. 1,406,137; Feb. 7.
- Adams, Frederick, Bradwell, England. Tramway rail having removable tread. No. 1,418,509; June 6.
- Adams, Frederick B., et al. (See Bannigan, John P., assignor.)
- Adams, George. (See Raymond, P. J., and Adams.)
- Adams, George D., assignor to J. Roth, Omaha, Nebr. Sound-reproducing machine. No. 1,435,095; Nov. 7.
- Adams, Gilbert E., Gary, Ind. Controller for electric motors. No. 1,404,255; Jan. 24.
- Adams, Harold I., Warehouse Point, assignor to The Billings & Spencer Company, Hartford, Conn. Hand tool. No. 1,413,698; Apr. 25.
- Adams, Harry E., New York, N. Y. Securing means for automobile top closures. No. 1,424,061; July 25.
- Adams, James D., Wabash, Ind. Knockdown table. No. 1,422,246; July 11.
- Adams, James D., Belle Vernon, Pa. Seat for pit-furnace covers. No. 1,432,737; Oct. 24.
- Adams, James L., Jr., assignor to A. O. Smith Corporation, Milwaukee, Wis. Intermittently-operating gear system. No. 1,409,900; Mar. 21.
- Adams, James M., Chicago, Ill. Ship-salvaging apparatus. No. 1,404,921; Jan. 31.
- Adams, James M., Chicago, Ill. Salvaging apparatus. No. 1,412,202; Apr. 11.
- Adams, James V., Yowell, Tex. Gasoline wash furnace. No. 1,434,763; Nov. 7.
- Adams, John H., Kalamazoo, Mich. Phonograph record. No. 1,411,551; Apr. 4.
- Adams, John Q., et al. (See Craft, Clarence H., assignor.)
- Adams, John Q., assignor of one-half to W. J. McMurry, Hickman, Ky. Decoy. No. 1,417,441; May 23.
- Adams, Joseph, Roxbury, Mass. Rotary brush. No. 1,402,990; Jan. 10.
- Adams, Joseph A. (See Topper, W. S., and Adams.)
- Adams, Joseph H., Flatbush, N. Y., assignor to The Texas Company, Houston, Tex. Oil-converting process for the conversion and transformation of oils. No. 1,428,311; Sept. 5.
- Adams, Joseph H., Flatbush, N. Y., assignor to The Texas Company, Houston, Tex. Oil-converting apparatus for the conversion and transformation of oils. No. 1,428,312; Sept. 5.
- Adams, Joseph H., Flatbush, N. Y., assignor to The Texas Company, Houston, Tex. Conversion and transformation of liquids, fluids, and oils. No. 1,433,519; Oct. 24.
- Adams, Joseph S., Greenwood, Ark. Track device. No. 1,438,205; Dec. 12.
- Adams Laundry Machinery Company. (See West, Robert N., assignor.)
- Adams, Leslie M., Seattle, Wash. Game apparatus. No. 1,420,280; June 20.
- Adams, Lucius E., and C. C. Peck, Munising, Mich. Snow-plow. No. 1,432,377; Oct. 17.
- Adams, Reed, Detroit, Mich. Printing press. No. 1,410,357; Mar. 21.
- Adams, Richard H., Cobalt, Ontario, Canada. Percussive rock-drilling apparatus. No. 1,403,583; Jan. 17.
- Adams, Robert J. (See Crompton, R., Woodman, and Adams.)
- Adams, Samuel E., Everton, Ind. Caulterizing instrument. No. 1,411,248; Mar. 28.
- Adams, Thomas M., Houston, Tex. Pump plunger. No. 1,415,911; May 16.
- Adams, Thomas O. (See Wise, W. J., and Adams.)
- Adams, Walter A., Rochester, N. Y. Sectional table. No. 1,425,072; Aug. 8.
- Adams, Walter F., Los Angeles, Calif. High and low speed wrench. No. 1,409,510; Mar. 14.
- Adams, Walter L. (See Pfeuger, C. T., and Adams.)
- Adams, Walter L., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Antibacklash attachment for fishing reels. No. 1,420,804; June 27.
- Adams, Warren S., Buffalo, N. Y. Cooling apparatus. No. 1,425,739; Aug. 15.
- Adams, William, Stockton, Calif. Fluid-controlled land leveler. No. 1,435,575; Nov. 14.
- Adams, William G., Roanoke, Va. Draft rigging. No. 1,404,333; Jan. 24.
- Adams, Zeleman, New York, N. Y. Hand truck. No. 1,431,861; Oct. 10.
- Adams & Westlake Company, The. (See Hamm, W. S., and Schultz, assignors.)
- Adams & Westlake Company, The. (See Hamm, William S., assignor.)
- Adams & Westlake Company, The. (See Legge, Thomas A., assignor.)
- Adams-Williams Manufacturing Corporation. (See Presin, Louis, assignor.)
- Adamson, Allan A., Brooklyn, N. Y. Round-package-labeling machine. No. 1,435,680; Nov. 14.
- Adamson, Allan A., Brooklyn, N. Y., and W. F. Grupe, Hudson Heights, N. J. Producing rim boards. No. 1,422,648; July 11.
- Adamson, Allan A., Brooklyn, N. Y., and W. F. Grupe, Hudson Heights, N. J. Scoring machine. No. 1,433,106; Oct. 24.
- Adamson, David H. (See Clauss, E. A., and Adamson.)
- Adamson, James S. C., Ottawa, Ontario, Canada. Milk shelf. No. 1,435,782; Nov. 14.
- Adamson, Seth A., Dell Rapids, S. Dak. Potato grader. No. 1,409,353; Mar. 14.
- Adamson, Walter. (See Burstall, William H., assignor.)
- Adamson, William. (See Dufresne, D. E., and Adamson.)
- Adaptable Code Condensers Limited. (See Telling, Harry G., assignor.)
- Adaptable Tractor Co. (See Chandler, F. F., and Myers, assignors.)
- Adcox, Albert H., Kansas City, Kans. Oil burner. No. 1,429,215; Sept. 19.
- Adde, Simon, Grängesberg, Sweden. Plastic explosive. No. 1,410,868; Mar. 28.
- Addington, James R. G., Nickelsville, assignor of one-half to L. C. Gilley, Gate City, Va. Boring device for boring machines. No. 1,409,354; Mar. 14.
- Adell, Edward, Orange, Mass., and C. A. Brink, Cranston, R. I., assignors to Universal Winding Company, Boston, Mass. Cop or bobbin holder. No. 1,423,824; July 25.
- Adell, Ernest T. (See Gran, Albert, assignor.)
- Adelman, George L., Beardstown, Ill. Flour sifter. No. 1,438,884; Dec. 12.
- Adelmann, Hans, assignor to Ham Boiler Corporation, New York, N. Y. Hand-operated ham boiler. No. 1,408,153; Feb. 28.
- Adelmann, Hans, assignor to Ham Boiler Corp., New York, N. Y. Power-operated ham boiler. No. 1,412,590; Apr. 11.
- Adenot, Marius, Caluire, France, assignor to Societe Lyonnaise d'Industrie Mecanique, Caluire, Rhone, France. Braking mechanism for the front wheels of motor cars. No. 1,437,080; Nov. 28.
- Adere, Hugo, East Orange, N. J., assignor to J. F. Jelenko & Co., New York, N. Y. Dental clasp. No. 1,417,879; May 30.
- Aderer, Alexander. (See Cazier, M. H., and Youkey, assignors.)
- Aderer, Julius, New York, N. Y. Annealing device. No. 1,431,618; Oct. 10.
- Adjuria, Incorporated. (See Webber, Rollin F., assignor.)
- Adjustable & Reversible Propeller Corporation. (See Hart, Seth, assignor.)
- Adjusto Shoe Lace Company. (See Ross, Isidor B., assignor.)
- Adkins, Thomas E., Canton, Ohio. Spring bolt. No. 1,424,331; Aug. 1.
- Adland, Victor E. (See Kamper, L. H., Adland, and Bartholomew.)
- Adler, Emanuel B. and J., Pittsburgh, Pa. Heating stove. No. 1,440,262; Dec. 26.
- Adler Engineering Company. (See Adler, Henry A., assignor.)
- Adler, Henry A., New York, assignor to Adler Engineering Company, Corona, Long Island, N. Y. Dental instrument. No. 1,424,707; Aug. 1.
- Adler, Jerome. (See Adler, Emanuel B. and J.)
- Adler, John B. and T. F. Gehle, Dearborn, Mich. Automatic air-supply control for internal-combustion engines. No. 1,413,371; Apr. 18.
- Adler, Karl M., assignor to Emil Kahle, Paunsdorf, near Leipzig, Germany. Platen press. No. 1,413,699; Apr. 25.
- Admiraal, Maarten, Bussum, Netherlands. Stopping indicator for traffic purposes. No. 1,437,081; Nov. 28.
- Adolph, Alfred H., San Francisco, Calif. Combination file handle and jointer. No. 1,404,507; Jan. 24.
- Adrema Maschinen Bau-Gesellschaft mit beschränkter Haftung. (See Deutsch, Hermann, assignor.)
- Adrianne, Adrian D., Brooklyn, N. Y. Toy arrow. No. 1,423,551; July 25.
- Adsit, Byron D. (See Finney, George S., assignor.)

- Adt, Albert W., assignor to John B. Adt Company, Baltimore, Md. Tobacco-cutting machine. No. 1,419,094; June 6.
- Adt, John B., Company. (See Adt, Albert W., assignor.)
- Advance Machine Company. (See Antoine, A. D., and Gebert, assignors.)
- Advance Rumely Company. (See Ross, James, assignor.)
- Advance-Rumely Company. (See Secor, John A., assignor.)
- Adye, John F. (See Stanfield, Joseph R. M., assignor.)
- Adye, John F., Cheshire, England. Magneto starter. No. 1,436,467; Nov. 21.
- Aebi, John, Alliance, Ohio. Constant-pressure plunger. No. 1,411,148; Mar. 28.
- Aegerter, Gustave W., and K. Schliepmann, St. Louis, Mo. Playing-card-shuffling box. No. 1,434,034; Oct. 31.
- Aeolian Company, The. (See Collyer, Louis G., assignor.)
- Aeolian Company, The. (See Dickinson, Joseph H., assignor.)
- Aeolian Company, The. (See Head, Robert, assignor.)
- Aermotor Company. (See Scholes, Daniel R., assignor.)
- Aeolian Company, The. (See Shaw, Charles H., assignor.)
- Aero Tank Machine Gun Company. (See Czegka, Victor H., assignor.)
- Aeschbach, Friedrich, Aarau, Switzerland. Parallel vise. No. 1,403,997; Jan. 17.
- Affel, Herman A. (See Espenschied, L., and Affel.)
- Affel, Herman A., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Carrier telegraph circuit. No. 1,402,991; Jan. 10.
- Affel, Herman A., Brooklyn, N. Y., assignor to American Telephone & Telegraph Company. Means for and method of testing unbalance. No. 1,414,391; May 2.
- Affel, Herman A., Brooklyn, N. Y., and J. Davidson, Jr., Montclair, N. J., assignors to American Telephone and Telegraph Company. Ringing arrangement for multiplex circuits. No. 1,402,202; Jan. 3.
- Affelder, Harry F., Cleveland, Ohio. Gumming device. No. 1,409,908; Mar. 21.
- Affelder, William L., Crafton, Pa. Portable container. No. 1,414,392; May 2.
- Affleck, Kerfoot A., Washington, D. C. Trundling toy. No. 1,437,388; Dec. 5.
- Agee, Charley D., Dallas, Tex. Window-screen hanger. No. 1,424,431; Aug. 1.
- Ager, John W., Birmingham, Ala. Hollow building tile. No. 1,414,246; Apr. 25.
- Agnew, Alexander J., and F. F. Renwick, assignors to Ilford Limited, Ilford, England. High-temperature development of photographic materials. No. 1,424,062; July 25.
- Agresta, Felix G. (See Dupell, Frank G., assignor.)
- Aguillon, Jacques, Paris, France. Calorimeter of the continuous and recording type for determining the calorific power of fluid combustibles. No. 1,435,783; Nov. 14.
- Agutter, George, Forest Hills, N. Y. Tennis racket. No. 1,423,900; July 25.
- Ahbe, William F., Chicago, Ill. Method and apparatus for producing moving-picture cartoons. No. 1,416,154; May 16.
- A'Hearn, Frank M., Greenville, Pa. Frame support. No. 1,422,164; July 11.
- Ahearn, Thomas, Ottawa, Ontario, Canada. Phonograph-needle buffer. No. 1,428,828; Sept. 12.
- Ahern, Albert M., St. Louis, Mo. Jaw for animal traps. No. 1,428,512; Sept. 12.
- Ahern, Albert M., St. Louis, Mo. Smoke producer. No. 1,438,351; Dec. 12.
- Ahern, John J. (See Parker, Martin, assignor.)
- Ahl, Ferdinand H., Salem, N. J. Spool holder. No. 1,414,971; May 2.
- Ahlfors, Karl A., Helsingfors, Finland. Turbine. No. 1,402,992; Jan. 10.
- Ahlheim Company, The. (See Kerr, H. E., and Ahlheim, assignors.)
- Ahlheim, Edward C. (See Kerr, H. E., and Ahlheim.)
- Ahlstrom, Charles A., Jamestown, N. Y. Grand-piano action. No. 1,436,303; Nov. 21.
- Ahmels, Karl, Cassel, Germany. Double telescope. No. 1,412,442; Apr. 11.
- Ahola, Charles, Detroit, Mich. Ship construction. No. 1,416,155; May 16.
- Aicardi, James A., jr., et al. (See Gagin, David, assignor.)
- Aichele, Albert, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Electrical propulsion of ships. No. 1,408,426; Mar. 7.
- Aiken, Edward L., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Gear wheel. No. 1,427,892; Sept. 5.
- Aiken, Thomas M., Pittsburgh, Pa. Computing exposure meter. No. 1,414,972; May 2.
- Aikens, Thomas N., assignor of one-half to D. D. Walker, Lakewood, Ohio. Tubular sheet-metal spoke for vehicle wheels. No. 1,426,942; Aug. 22.
- Aikin, William P., Watertown, N. Y. Apparatus for dressing pulp-wood grindstones. No. 1,406,138; Feb. 7.
- Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Starting and unloading device for compressors. No. 1,412,819; Apr. 18.
- Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Pump and pumping system. No. 1,423,291; July 18.
- Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Pumping system. No. 1,425,928; Aug. 15.
- Aimé, Luis, West Hoboken, N. J. Leg-rest for rocking chairs. No. 1,412,641; Apr. 11.
- Aimé, Luis, West Hoboken, N. J. Adjustable leg rest for chairs. No. 1,440,329; Dec. 26.
- Aims, William D. P., Philadelphia, Pa. Apparatus for distilling heavy hydrocarbons, shale, and the like. No. 1,405,704; Feb. 7.
- Ainsworth, Harry G., Kentland, Ind. Means for operating doors. No. 1,418,420; June 6.
- Ainsworth, Harry G., Kentland, Ind. Switch. No. 1,431,082; Oct. 3.
- Air Brake Safety Appliance Co. (See Hellmann, L. F., and Baxter, assignors.) (Reissue.)
- Airdry Corporation. (See Bassette, John G., assignor.)
- Airdry Corporation. (See Hibbard, R. B., Watrous, and Bassette, assignors.)
- Airdry Corporation. (See Watrous, Denton J., assignor.)
- Airoblast Corporation. (See Crane, Theodore G., assignor.)
- Air-O-Mix, Incorporated. (See Beers, Henry S., assignor.)
- Air Reduction Company. (See Bucknam, Worthy C., assignor.)
- Air Reduction Company. (See Metzger, Floyd J., assignor.)
- Air Reduction Company. (See Ragonnet, Eugene L., assignor.)
- Air Reduction Company. (See Roberts, Montague H., assignor.)
- Air Reduction Company. (See Russell, Richard F., assignor.)
- Air Reduction Company. (See von Recklinghausen, Max, assignor.)
- Air Reduction Company. (See Zouck, G. H., and Russell, assignors.)
- Air Reduction Company, Incorporated. (See Anderson, James L., assignor.)
- Air-Way Electric Appliance Corporation. (See Tracy, Pratt E., assignor.)
- Aitchison, William, et al. (See Welch, James G., assignor.)
- Aitken, Andrew W., assignor to The Buffalo-Springfield Roller Company, Springfield, Ohio. Road roller. No. 1,427,751; Aug. 29.
- Aitken, David, Lethbridge, Alberta, Canada. Safety razor. No. 1,411,552; Apr. 4.
- Aitkin, Richard M. (See Bethge, F. L., and Storer, assignors.)
- Aizpuru, Jose M., Tampa, Fla. Fireplace heater. No. 1,433,520; Oct. 31.
- Ajax Metal Company, The. (See Wyatt, James R., assignor.)
- Akard, James H., San Francisco, Calif. Wire twister. No. 1,406,715; Feb. 14.
- Akashi, Kazuo, Asakusa-Ku, Tokyo, Japan. Manufacturing blades for drawing pens. No. 1,402,034; Jan. 3.
- Akemann, Walther, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Apparatus for stabilizing a direction in space. No. 1,435,681; Nov. 14.
- Aker, John C., and M. C. Williams, Duluth, Minn. Washing machine. No. 1,407,618; Feb. 21.
- Akers, Bessie E., Thrift, Tex. Baby-net frame. No. 1,416,608; June 6.
- Akers, Earl C., Detroit, Mich. Door check. No. 1,439,049; Dec. 19.
- Akers, James O., Baltimore, Md. Automobile lock. No. 1,408,237; Feb. 28.
- Akers, Joseph G., Philadelphia, Pa. Toy gun. No. 1,434,726; Nov. 7.
- Akkoona, Dinshaw J., Bulsar, Bombay Presidency, India. Preventing collisions on railways. No. 1,402,993; Jan. 10.
- Akimoff, Nicholas W., Wynnewood, Pa. Spring. No. 1,428,740; Sept. 12.
- Akins, Edwin J., Moundsville, W. Va. Drilling bit. No. 1,415,619; May 9.
- Akins, Jefferson H., Lewistown, Mont. Shim. No. 1,424,063; July 25.
- Akins, Randall P., Denver, Colo. Ore classifier. No. 1,412,010; Apr. 4.
- Akley, Charles S. (See Anglada, Joseph A., assignor.)
- Akroyd, Harry W., Philadelphia, Pa. Optical toy. No. 1,419,657; June 13.
- Akt. Ges. vorm. Seidel & Naumann. (See Baeseler, Heinrich F. E., assignor.)
- Aktiebolaget Ars. (See Hasait, Max, assignor.)
- Aktiebolaget Bofors. (See Wennerström, Ernst J. T., assignor.)
- Aktiebolaget C. E., Johansson. (See Evander, F. A., Nilsson, and Ekman, assignors.)
- Aktiebolaget Formator. (See Dahlström, Ernst R., assignor.)
- Aktiebolaget Gerh. Arehns Mekaniska Verkstad. (See Öström, Gustaf, assignor.)
- Aktiebolaget Ingenjörskåren Fritz Egnell. (See Rodhe, Olof, assignor.) (Reissue.)
- Aktiebolaget Lidsköpings Mekaniska Verkstad. (See Olson, Karl and A. H., assignors.)
- Aktiebolaget Ljungström Angturbin. (See Ljungström, F., and Broberg, assignors.)

Alphabetical list of patentees—Continued.

- Aktiebolaget Ljungström 'Angturbin. (See Ljungström, Fredrik, assignor.)
- Aktiebolaget Lux. (See Carlstedt, Sven M., assignor.)
- Aktiebolaget Patria. (See Bergström, Axel E. T., assignor.)
- Aktiebolaget Separator. (See Lindgren, Hans O., assignor.)
- Aktiebolaget Skandinaviska Orgel-och Pianofabriken. (See Lundquist, A. G., and Jonson, assignors.)
- Aktiebolaget Stille-Werner. (See Nordin, Josef A., assignor.)
- Aktiebolaget Svenska Kullagerfabriken. (See Borg, John L., assignor.)
- Aktiebolaget Svenska Kullagerfabriken. (See Fjellman, Bengt W.)
- Aktiebolaget Svenska Kullagerfabriken. (See Hultgren, Axel G. E., assignor.)
- Aktiebolaget Svenska Kullagerfabriken. (See Olsson, Nils J., assignor.)
- Aktiebolaget Svenska Kullagerfabriken. (See Palmgren, Nils A., assignor.)
- Aktiebolaget Svenska-Kullagerfabriken. (See Wingquist, Sven G., assignor.)
- Aktiebolaget Tubus. (See Karlsson, Walfrid, assignor.)
- Aktiebolaget Vaporackumulator. (See Frenne, Nils G. H., assignor.)
- Aktiebolaget Vaporackumulator. (See Ruths, Johannes K., assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Aichele, Albert, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Buchli, Jacob, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Couwenhoven, Abraham, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See de Freudenreich, J., and Spoerry, assignors.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Jonas, Julius, assignor.)
- Aktiengesellschaft der Maschinenfabriken Escher Wyss & Co. (See Graemiger, Benjamin, assignor.)
- Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie. (See Keller, Huldreich, assignor.)
- Aktiengesellschaft "Eos." (See Schneiders, Gottfried, assignor.)
- Aktiengesellschaft Kummier & Matter. (See Wirth-Frey, Elias, assignor.)
- Aktiengesellschaft vorm. Seidel & Naumann. (See Baeseler, Heinrich F. E., assignor.)
- Aladdin Cinema Co. (See Carter, Clark E., assignor.)
- Aladdin Renew Electric Lamp Corporation Limited. (See Coxon, S., and Williams, assignors.)
- Aladdin Renew Electric Lamp Corporation Limited. (See Harrison, Francis, assignor.)
- Alaska Freezer Company. (See Norcross, Crandall U., assignor.)
- Elastic Tire Cushion Company. (See Krauska, Thomas, assignor.)
- Albach, Clarence I., administrator. (See Albach, James B.)
- Albach, James B., deceased, St. Louis, Mo.; C. I. Albach, administrator, Flavoring extract and preparing the same. No. 1,403,473; Jan. 17.
- Albanese, John, Providence, R. I. Bracelet. No. 1,433,521; Oct. 31.
- Albany Machine and Tool Company. (See Ramsey, Joseph H., assignor.)
- Albaugh-Dover Company. (See Eden, Harold W., assignor.)
- Alberger Gas Engine Company. (See Worbois, Edson L., assignor.)
- Albers, Joseph A., Norwood, Ohio. Carton. No. 1,412,155; Apr. 11.
- Albers, William W. (See Sauerhering, Douglas L., assignor.)
- Albert, August, Munich, Germany. Derivatives of organic arsenic compounds. No. 1,425,929; Aug. 15.
- Albert, August, Munich, Germany. Manufacturing new arsenic oxides or arsenobenzols. No. 1,425,930; Aug. 15.
- Albert, August, Munich, Germany. Producing new aromatic compounds containing carbonyl groups with trivalent arsenic. No. 1,425,931; Aug. 15.
- Albert, Eugen, Munich, Germany. Producing printing plates. No. 1,430,347; Sept. 26.
- Albert, Frank J. (See Gitzendanner, P., and Albert.)
- Albert, Louis, et al. (See Pietrafesa, Joseph, assignor.)
- Albert, Michael, assignor to Milwaukee Corrugating Co., Milwaukee, Wis. Ridge-roll final. No. 1,414,493; May 2.
- Albert, Otto. (See Nelson, K. O., and Albert.)
- Albertson, Frans O., assignor to Albertson & Company, Sioux City, Iowa. Valve-refacing apparatus. No. 1,421,133; June 27.
- Albertson & Company. (See Albertson, Frans O., assignor.)
- Albertus, Floyd A., assignor of one-fourth to C. S. Flint, Milwaukee, Wis. Soldering composition for aluminum. No. 1,416,924; May 23.
- Albiez, John L., Pittsburgh, Pa. Blooming mill. No. 1,429,311; Sept. 19.
- Albinson, James E., Washington, D. C. Pipe vise stand. No. 1,426,531; Aug. 22.
- Albizu, Louis W., Ponce, P. R. Exercising apparatus. No. 1,438,804; Dec. 12.
- Alborn, Frans G., Milford, assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Radiator mounting for motor vehicles. No. 1,406,163; Feb. 14.
- Alborne, Hilton R., Stillwater, Minn. Telephone-index mounting. No. 1,440,048; Dec. 26.
- Albott, Leonard E., Augusta, Kans. Tire protector. No. 1,406,803; Feb. 14.
- Albrecht, Albert W., et al. (See Coates, Clinton T., assignor.)
- Albrecht, Albert W., St. Louis, Mo. Method of making piston rings. No. 1,415,620; May 9.
- Albrecht, Albert W., St. Louis, Mo. Apparatus for the manufacture of metallic balls. No. 1,419,599; June 13.
- Albrecht, Albert W., St. Louis, Mo. Mechanism for forming balls. No. 1,432,514; Oct. 17.
- Albrecht, Herman S., St. Louis, Mo. Metallic billet or bar. No. 1,436,931; Nov. 28.
- Albrecht, Herman S., St. Louis, Mo. Machine for the manufacture of metallic balls. No. 1,438,206; Dec. 12.
- Albrecht, John H., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,415,971; May 16.
- Albright, Andrew, Jr., New York, N. Y. Manufacture of brushes. No. 1,413,211; Apr. 18.
- Albright, George A., Atlanta, Ga. Clock-circuit-control device. No. 1,416,592; May 16.
- Albright, Jacob J., Columbus, Ga. Register. No. 1,417,011; May 23.
- Albright, John B., Rockford, Ill. Container and holder for shaving sticks. No. 1,415,621; May 9.
- Album, Adolph Y. S., Chicago, Ill. Bottle stopper. No. 1,419,003; June 6.
- Album, Adolph Y. S., Maywood, Ill. Bottle stopper. No. 1,435,443; Nov. 14.
- Alchemic Gold Company Inc. (See Doughty, Howard W., assignor.)
- Alco Deo Company, The. (See Crockett, Cyrenius W., assignor.)
- Aldeen, Gedor W., Rockford, Ill. Key guide for locks. No. 1,437,878; Dec. 5.
- Aldeen, Wilhelm G., Rockford, Ill. Phonograph or like cabinet. No. 1,439,496; Dec. 19.
- Aldeen, Wilhelm G., Rockford, Ill. Phonograph or like cabinet. No. 1,439,497; Dec. 19.
- Alden, Charles A., Steelton, Pa. Making railway frogs and product thereof. No. 1,439,050; Dec. 19.
- Alden, George I., assignor to Norton Company, Worcester, Mass. Driving and reversing mechanism. No. 1,432,653; Oct. 17.
- Alden, Herbert W., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Automobile driving axle. No. 1,434,578; Nov. 7.
- Alden, Joseph R., Grand Rapids, Mich. Shaving cup. No. 1,404,256; Jan. 24.
- Alden, Vern E., Baltimore, Md., assignor to Westinghouse Electric & Manufacturing Company. Core structure for transformers. No. 1,404,826; Jan. 31.
- Alder, Frederick, and J. C. Rogers, Houston, Tex. Lint cleaner and batting machine. No. 1,425,502; Aug. 15.
- Alderfer, John M. (See Trump, Elno H., assignor.)
- Alderman, Eugene R., Holyoke, Mass. Doffing apparatus. No. 1,419,192; June 13.
- Alderman, William N., et al. (See Crippen, Henry M., assignor.)
- Alderson, George, La Salle, Ill. Pump jack. No. 1,436,002; Nov. 21.
- Alderson, George, La Salle, Ill. Tank heater. No. 1,438,352; Dec. 12.
- Aldi, Angelo and J., Southington, Conn. Valve grinder. No. 1,428,871; Sept. 12.
- Aldi, Joseph. (See Aldi, Angelo and J.)
- Aldon Engineering Company. (See Morehart, Forrest D., assignor.)
- Aldred, Curtis M., Charlotte, N. C. Elevator floor safety switch. No. 1,436,137; Nov. 21.
- Aldrich, Alonzo, Beloit, Wis. Paper-making machine. No. 1,421,753; July 4.
- Aldrich, Alonzo, Beloit, Wis. Paper-making machine. No. 1,421,754; July 4.
- Aldrich, Alonzo, and A. L. Larson, Beloit, Wis.; said Larson assignor to said Aldrich. Paper-making machine. No. 1,421,752; July 4.
- Aldrich, Myron L., Madison, Wis. Spring wheel. No. 1,438,207; Dec. 12.
- Aldrich, William O., assignor to Whitin Machine Works, Whitinsville, Mass. Flier. No. 1,426,443; Aug. 22.
- Aldrich, William T., Chicopee, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Tennis racket. No. 1,427,568; Aug. 29.
- Aldridge, W. Herbert, Portland, Oreg. Water heater. No. 1,418,421; June 6.
- Aldridge, Leonard S., Chazy, N. Y. Roller bearing. No. 1,438,472; Dec. 12.
- Alenius, William, Rock Springs, Wyo. Retort. No. 1,438,421; Dec. 12.
- Alexander, Andrew, New York, N. Y. Printing machine. No. 1,427,569; Aug. 29.
- Alexander, Andy J., et al. (See Bronson, Fred L., assignor.)
- Alexander, Arthur, Brooklyn, N. Y. Game apparatus. No. 1,416,593; May 16.

Alphabetical list of patentees—Continued.

- Alexander, Arthur A., and B. Morgenthau, New York, N. Y. Lock. No. 1,426,805; Aug. 22.
- Alexander, Benjamin, assignor to The Kaynee Company, Cleveland, Ohio. Combined advertising and displaying fixture. No. 1,435,785; Nov. 14.
- Alexander, Clinton B., Washington, D. C. Loose-leaf binder. No. 1,434,579; Nov. 7.
- Alexander, Clive M., Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa. Purifying oils. No. 1,402,733; Jan. 10.
- Alexander, Clive M., Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa. Making low-boiling hydrocarbon. No. 1,404,725; Jan. 31.
- Alexander, Clive M., Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa. Manufacture of motor fuel. No. 1,407,619; Feb. 21.
- Alexander, Clive M., Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa. Making low-boiling hydrocarbons. No. 1,411,255; Apr. 4.
- Alexander Construction Company, The. (See Alexander, Orion, assignor.)
- Alexander, Donald M., Cleveland, Ohio. Locking and unlocking mechanism. No. 1,419,095; June 6.
- Alexander Hamilton Institute. (See Fleck, Louis L., assignor.)
- Alexander, Harris, et al. (See Bronson, Fred L., assignor.)
- Alexander, Harry H., Westfield, N. J., assignor to American Smelting & Refining Company. Recovering tin. No. 1,426,341; Aug. 22.
- Alexander, Horace G., Dallas, Tex. Cleaning paint, grease, dirt, and other matter from vehicles and other articles. No. 1,437,331; Nov. 28.
- Alexander, Jesse W., Birmingham, Ala. Machine for making cement roofing tile. No. 1,428,351; Sept. 5.
- Alexander, John E., and W. G. Gehrs, Port Edwards, Wis. Plate attachment for exhaust manifolds. No. 1,434,358; Nov. 7.
- Alexander, John W. (See Thayer, F. A. J., and Alexander.)
- Alexander, Lake C. (See Avril, Joseph, assignor.)
- Alexander, Orion, assignor to The Alexander Construction Company, Cleveland, Ohio. Moving buildings from one site to another. No. 1,418,510; June 6.
- Alexander, Philip, Jr., Churchville, N. Y. Toy binding machine. No. 1,419,096; June 6.
- Alexander, True, assignor to Norton Iron Works, Ashland, Ky. Reel for barbing machines. No. 1,440,122; Dec. 26.
- Alexander, William S., Elsmere, Del. Quick-releasable nut and bolt. No. 1,406,804; Feb. 14.
- Alexander, William T., et al. (See Torrey, Charles L., assignor.)
- Alexanderson, Charles. (See Durkee, E. W., and Alexanderson.)
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Removing sleet from antennae. No. 1,404,726; Jan. 31.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Amplifying system. No. 1,419,797; June 13.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Rotary transforming apparatus. No. 1,420,398; June 20.
- Alexanderson, Ernest F. W., Schenectady, N. Y., assignor to General Electric Company. High-frequency alternator. No. 1,426,943; Aug. 22.
- Alexanderson, Ernest F. W., Schenectady, N. Y., assignor to General Electric Company. Radiosignaling system. No. 1,426,944; Aug. 22.
- Alexandre, Frederick F., Cedarhurst, N. Y. Bumper for automobiles. No. 1,436,559; Nov. 21.
- Alexay, Adalbert, Avenel, N. J. Gear-generating machine. No. 1,408,792; Mar. 7.
- Alexay, Adalbert, Avenel, N. J., assignor to Simplex Paper Accessories Co. Inc., Brooklyn, N. Y. Dispensing device. No. 1,423,063; July 18.
- Algeo, Frank G., Hutchinson, Kans. Garden-hose support. No. 1,435,786; Nov. 14.
- Alger, Charles M., Hannibal, Mo. Tool for removing dents from automobile fenders. No. 1,403,887; Jan. 17.
- Alger, Harley C., Oak Park, Ill. Lost-motion take-up for printing presses or the like. No. 1,430,274; Sept. 26.
- Algire, Clifford G., Madison, S. Dak. Elevating rack for beds. No. 1,422,405; July 11.
- Alien Property Custodian. (See Koch, Norbert, assignor.)
- Alien Property Custodian. (See Zahn, Robert, assignor.)
- Alioth, Manfred, and E. Bodmer, assignors to Durand & Huguenin S. A., Basel, Switzerland. Dye-stuffs dyeing on mordant and making same. No. 1,403,888; Jan. 17.
- Aliquo, Francesco, Rome, Italy. Steering mechanism. No. 1,420,231; June 20.
- Alkan, Robert, Paris, France. Tumbler switch. No. 1,437,702; Dec. 5.
- Alkire, John L., Denver, Colo. License tag. No. 1,408,050; Feb. 28.
- Alkire, Lu E., and Wiley H. Carter, Forest City, Mo. Ventilating system for vehicles. No. 1,439,681; Dec. 26.
- Allain, Jacques, Montreal, Quebec, Canada. Lock. No. 1,435,682; Nov. 14.
- Allan, Alexander, Middletown, R. I. Method of and apparatus for raising sunken ships. No. 1,421,887; July 4.
- Allan, Charles D., Chicago, Ill., assignor to A. L. Fritzsche, Cleveland, Ohio. Valve for fire-extinguisher systems. No. 1,436,932; Nov. 28.
- Allan, Charles S. (See Longshaw F., and Allan.)
- Allan, Frederick W. (See Wiggins, E. J., and Hebel, assignors.)
- Allan, George W. (See Brittain, Isaac M., assignor.)
- Allan, Hugh L., Ayr, Scotland. Fractionating apparatus. No. 1,421,886; July 4.
- Allan, Percy, Montclair, N. J., assignor to A. B. Sands & Son Co., New York, N. Y. Marine closet. No. 1,421,362; July 4.
- Allan, Richard S., assignor to Messrs. Reid Press Limited, Hamilton, Ontario, Canada. Folding display box. No. 1,410,869; Mar. 28.
- Allard, Felix and J., Boston, Mass. Sanitary drinking cup. No. 1,434,359; Nov. 7.
- Allard, James. (See Allan, Felix and J.)
- Allard, J. Frank, Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,406,162; Feb. 14.
- Allard, J. Frank, Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,421,134; June 27.
- Allbaugh, Byron D., Dierks, Ark. Self-adjusting nut. No. 1,408,962; Mar. 7.
- Allbright, Edwin F., Atlantic, assignor, by mesne assignments, to Grid Flat Slab Corporation, Boston, Mass. Concrete floor or slab forming means. No. 1,434,242; Oct. 31.
- Allbright-Nell Co. (See Lundell, Alvin O., assignor.)
- Allbright, William B., Chicago, Ill. Hydrogenating process. No. 1,404,708; Jan. 24.
- Allbright, William B., Chicago, Ill. Hydrogenating apparatus. No. 1,404,709; Jan. 24.
- Alden, George H., Folkestone, England. Tread band for pneumatic tires. No. 1,425,356; Aug. 8.
- Aldredge, Eunus A., Holly Pond, Ala. Car and doors therefor. No. 1,432,146; Oct. 17.
- Aldredge, Francis B., Des Moines, Iowa. Bailer structure. No. 1,421,363; July 4.
- Aldredge, Francis B., Des Moines, Iowa. Device and process for automatically preventing the accumulation of water in gas wells. No. 1,439,391; Dec. 19.
- Allebrand, Charles W., and C. G. Guyatt, Duquesne, Pa. Utility carriage device. No. 1,431,862; Oct. 10.
- Allegheny Steel Company. (See Hostettler, Leigh W., assignor.)
- Allen, Alfred, Birmingham, England. Pencil and pen clip. No. 1,421,657; July 4.
- Allen, Anson W. (See Ryding, H. C., and Allen.)
- Allen, Arthur F., A. F. McCoy, New York, N. Y., and R. O. Sternberger, Newark, N. J., assignors to Tidewater Paper Mills Company, Brooklyn, N. Y. Removing printers' ink from paper. No. 1,406,322; Feb. 14.
- Allen, Asa T., Ocean View, Va. Animal trap. No. 1,435,576; Nov. 14.
- Allen, Austin O. (See French, E. H., Withrow, and Allen.)
- Allen, Austin O., Merchantville, N. J., assignor to John Lucas & Co., Inc., Philadelphia, Pa. Manufacturing arsenate of lead. No. 1,427,049; Aug. 22.
- Allen, Bona, Jr., Buford, Ga. Nonslip belt. No. 1,420,604; June 20.
- Allen, Carl S., Cincinnati, Ohio. Overalls. No. 1,410,541; Mar. 28.
- Allen, Carlton H., assignor of one-half to Great Northern Paper Company, Millinocket, Me. Pulp-thickening machine. No. 1,421,364; July 4.
- Allen, Carlton H., assignor of one-half to Great Northern Paper Company, Millinocket, Me. Valve mechanism. No. 1,430,427; Sept. 26.
- Allen, Carlton H., and E. J. Trimble, Glens Falls, N. Y., assignor of one-half to Great Northern Paper Company, Millinocket, Me. Process and apparatus for preparing paper-making stock. (Reissue.) No. 15,311; Mar. 21.
- Allen, Charles, El Paso, Tex. Settling tank. No. 1,406,323; Feb. 14.
- Allen, Charles, El Paso, Tex. Settling and thickening device. No. 1,408,154; Feb. 28.
- Allen, Charles, El Paso, Tex. Closed grinding circuit. No. 1,408,155; Feb. 28.
- Allen, Charles, El Paso, Tex. Hydraulic classifier. No. 1,410,152; Mar. 21.
- Allen, Charles, El Paso, Tex. Ore classifier. No. 1,429,480; Sept. 19.
- Allen, Charles C., Indianola, Nebr. Gauge. No. 1,419,004; June 6.
- Allen, Charles H., Attleboro, Mass. Collar holder. No. 1,404,257; Jan. 24.
- Allen, Charles H., Attleboro, Mass. Fastener. No. 1,438,739; Dec. 12.
- Allen, Charles H., Chicago, Ill. Headlight. No. 1,416,434; May 16.
- Allen, Charles H., Claremont, N. H., assignor to Sullivan Machinery Company. Lubricator. No. 1,405,375; Jan. 31.
- Allen, Charles J., Moorestown, N. J., assignor to S. L. Allen & Co., Inc. Cultivator. No. 1,425,932; Aug. 15.
- Allen, Charles J., Moorestown, N. J., and J. Mader, Philadelphia, Pa., assignors to S. L. Allen & Co., Inc. Agricultural implement. No. 1,418,049; May 30.

Alphabetical list of patentees—Continued.

- Allen, Charles R., Ashtabula, Ohio. Fastening device for vehicle tops. No. 1,416,435; May 16.
- Allen, Charles R., assignor to The Ashtabula Bow Socket Company, Ashtabula, Ohio. Fastening device for vehicle tops. No. 1,438,353; Dec. 12.
- Allen, Chester B., Memphis, Tenn. Vehicle wheel. No. 1,415,288; May 9.
- Allen, Chris, Huntington Beach, Calif. Flow nipple. No. 1,404,724; Jan. 31.
- Allen Cone Co., The. (See Shaw, Edmund, assignor.)
- Allen, David H., Sulfur, Colo. Wire stretcher. No. 1,410,523; Mar. 21.
- Allen, David R., and J. Franek, Omaha, Nebr. Indicating device for theater seats. No. 1,429,057; Sept. 12.
- Allen, Douglas M., assignor of one-half to D. Gross, Lake Charles, La. Adapter switch for ceiling fans. No. 1,404,080; Jan. 17.
- Allen, Edward A., Portland, Me. Apparatus for electrolysis. No. 1,407,313; Feb. 21.
- Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Thread cutting and nipping mechanism for sewing machines. No. 1,404,727; Jan. 31.
- Allen, Edward B., Newtown, Conn., assignor to The Singer Manufacturing Company. Buttonhole-sewing machine. (Reissue.) No. 15,324; Apr. 4.
- Allen, Edward B., Newtown, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Buttonhole-sewing machine. No. 1,418,223; May 30.
- Allen, Edward E., assignor to Allen Machine Company, Erie, Pa. Vulcanizing press. No. 1,415,082; May 9.
- Allen, Erhard, assignor to The Dayton Display Fixture Company, Dayton, Ohio. Display rack. No. 1,411,553; Apr. 4.
- Allen, Erhard, assignor to The Dayton Display Fixture Company, Dayton, Ohio. Display rack. No. 1,411,554; Apr. 4.
- Allen, Erhard, assignor to The Dayton Display Fixture Company, Dayton, Ohio. Hand truck. No. 1,429,918; Sept. 26.
- Allen, Ernest E., Minneapolis, Minn. Brush. No. 1,413,700; Apr. 25.
- Allen, Eugene, assignor of one-fourth to L. J. Lester, Clarion, Iowa. Method of and means for cleaning and repairing crank-case oil tubes. No. 1,430,527; Oct. 3.
- Allen, Frank M., Ridley Park, Pa., assignor to General Chemical Company, New York, N. Y. Gassing liquors with SO₂. No. 1,422,327; July 11.
- Allen, Frank R. (See Mitchell, William F., assignor.)
- Allen, Frederick L., Boise, Idaho. Wrench. No. 1,409,811; Mar. 14.
- Allen, George B., Atlanta, Ga. Rotatable brush. No. 1,425,435; Aug. 8.
- Allen, George F., Oronogo, Mo. Hydrocarbon-oil burner. No. 1,430,428; Sept. 26.
- Allen, George L., Detroit, Mich. Cushion wheel. No. 1,427,995; Sept. 5.
- Allen, George P., Los Angeles, Calif. Universal piston-rod connection. No. 1,427,673; Aug. 29.
- Allen, George W., Pocatello, Idaho. Bag rack. No. 1,411,895; Apr. 4.
- Allen, H. A., Co. (See Metcalf, Alpha H., assignor.)
- Allen, Harry B., assignor to F. M. Howell & Co., Elmira, N. Y. Folding paper box, box corner, and blank therefor. No. 1,411,555; Apr. 4.
- Allen, Harry H., Washington, D. C., assignor to M. L. H. Smith, Watervliet, N. Y. Folding machine. No. 1,402,035; Jan. 3.
- Allen, Harry L., Cleveland, Ohio. Machine for shaping and tempering metal. No. 1,434,184; Oct. 31.
- Allen, Howard G., assignor to The J. L. Morrison Company, Inc., Niagara Falls, N. Y. Stapling machine. No. 1,430,048; Sept. 26.
- Allen, Jackson M., Grove City, Pa. Valve. No. 1,417,291; May 23.
- Allen, James A., Choccolocco, Ala. Cultivating implement. No. 1,415,759; May 9.
- Allen, James H. (See McKee, S. W., and Allen.)
- Allen, Joseph B., Woolahra, near Sydney, assignor of one-half to H. J. Preston, Sydney, New South Wales, Australia. Supporting and holding bracket for curtain rods and the like. No. 1,431,353; Oct. 10.
- Allen, Joseph H., Chicago, Ill. assignor to General Electric Company. System of electric lighting. No. 1,434,727; Nov. 7.
- Allen, Joseph J., Crook, England. Tool for refacing valve seats. No. 1,406,139; Feb. 7.
- Allen, Le Roy B., Cleveland, Ohio. Counter attachment. No. 1,403,368; Jan. 10.
- Allen, Louise, Hawarden, Iowa. Cigar rest. No. 1,423,507; July 25.
- Allen, Mabelle J., Boston, Mass. Educational game for teaching music. No. 1,406,960; Feb. 21.
- Allen Machine Company. (See Allen, Edward E., assignor.)
- Allen, Marcus, Los Angeles, Calif. Valve. No. 1,438,081; Dec. 5.
- Allen Morrison Sign Company. (See Hudson, William L., assignor.)
- Allen, Napoleon B., Brooklyn, N. Y. Clamp. No. 1,419,193; June 13.
- Allen, Paul W. (See Lenders, A. W. H., and Allen.)
- Allen, Paul W., Cedar Rapids, Iowa, assignor, by mesne assignments, to Penick & Ford, Ltd. Incorporated. Manufacture of grape sugar. No. 1,422,328; July 11.
- Allen, Robert, Woodcote, Reading, England. Gudgeon-pin bush for pistons. No. 1,415,422; May 9.
- Allen, Robert M. (See Miller, C. F., and Allen.)
- Allen, Roy M., Bloomfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical switching device. No. 1,415,972; May 16.
- Allen, Roy M., Bloomfield, and Paul Neill, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Compensator. No. 1,415,973; May 16.
- Allen, Roy N., and J. N. Todd, Seattle, Wash. Truck. No. 1,437,212; Nov. 28.
- Allen, S. L., & Co. (See Allen, C. J., and Mader, assignors.)
- Allen, S. L., & Co. (See Allen, Charles J., assignor.)
- Allen, S. L., & Co. (See Richie, David R., assignor.)
- Allen, S. L., & Co. (See Warren, W. C., and Kier, assignors.)
- Allen, S. L., & Co. Inc. (See Bowen, James M., assignor.)
- Allen, S. L., & Co., Inc. (See Dowler, Jacob W., assignor.)
- Allen, Scott E., Los Angeles, Calif. Accelerator for water-cooled machines. No. 1,415,974; May 16.
- Allen Typewriter Company. (See Uhlig, Richard W., assignor.)
- Allen, W. D., Manufacturing Company. (See Ryerson, Thorvald, assignor.)
- Allen, W. P., et al., trustees. (See Paul, Christian F., Jr., assignor.)
- Allen, William A., Yonkers, N. Y., and C. C. Abbe, Essex Falls, N. J., assignors to A. Schrader's Son, Incorporated, New York, N. Y. Tire-pressure gauge. No. 1,402,729; Jan. 10.
- Allen, William C., Newton, Miss. Cotton condenser and packer. No. 1,436,374; Nov. 21.
- Allen, William E. (See Jones, Everett R., assignor.)
- Allen, William G., Hartford, Conn. Driving mechanism for drill presses. No. 1,431,354; Oct. 10.
- Allen, William H., Detroit, Mich. Weatherproofing clay. No. 1,421,888; July 4.
- Allen, William H., Mokena, Ill., assignor to R. C. Penfield, New York, N. Y. Brick-laying machine. No. 1,414,998; May 2.
- Allen, William R., and T. K. McRea, Glacier, Wash.; said McRea assignor to said Allen. Spar-tree protector and fastening device for high-lead blocks. No. 1,423,292; July 18.
- Allen, Willis H., Syracuse, N. Y. Chime attachment for clocks. No. 1,426,806; Aug. 22.
- Allen Wrench & Tool Company. (See Webster, Oscar A., assignor.)
- Allenbaugh, George G., Mansfield, Ohio. Swimming device. No. 1,422,071; July 11.
- Allender, Charles W. G., Denver, Colo. Clamp for protecting tires. No. 1,426,532; Aug. 22.
- Alles, Conrad, Three Rivers, Calif. Traction wheel. No. 1,408,238; Feb. 28.
- Alles, Henry, San Francisco, Calif. Current motor. No. 1,432,271; Oct. 17.
- Alles, Henry, San Francisco, Calif. Current motor. No. 1,434,357; Oct. 31.
- Alles, John, Exeter, assignor of one-half to A. Dinkins, Woodlake, Calif. Controlling device for electric circuits. No. 1,412,591; Apr. 11.
- Alles, Louis H., Wilmington, Del. Toothbrush. No. 1,415,760; May 9.
- Allhiser, Edward J., Philadelphia, Pa. Apparatus for treating hides. No. 1,411,249; Apr. 4.
- Alliance Machine Company, The. (See Keller, Walter D., assignor.)
- Allie, Edgar H., Holyoke, Mass. Dividers. No. 1,436,848; Nov. 23.
- Allied Golf Company. (See White, James S., assignor.)
- Alline, Russell S., Cleveland, Ohio. Dispensing device. No. 1,438,740; Dec. 12.
- Ailing, Edward R., and F. F. Wolf, assignors to Rice & Adams Corporation, Buffalo, N. Y. Can-inverting device for can-washing machines and the like. No. 1,421,056; June 27.
- Ailing, Johan A., Stockholm, Sweden. Pen nib. No. 1,432,147; Oct. 17.
- Allingham, James, Chicago, Ill. Pop-up waste-valve mechanism. No. 1,408,239; Feb. 28.
- Allingham, John, Los Angeles, Calif. Process of and apparatus for recovering metals from ores. No. 1,403,463; Jan. 10.
- Allington, William W. (See Williams, William M., assignor.)
- Allis-Chalmers Manufacturing Company. (See Binder, Homer P., assignor.)
- Allis-Chalmers Manufacturing Company. (See Cheney, Herbert W., assignor.)
- Allis-Chalmers Manufacturing Company. (See Deutsch, Edward I., assignor.)
- Allis-Chalmers Manufacturing Company. (See Geist, Walter, assignor.)
- Allis-Chalmers Manufacturing Company. (See George, Edgar C., assignor.) (Reissue.)
- Allis-Chalmers Manufacturing Company. (See Humphrey, Noah W., assignor.)

- Allis-Chalmers Manufacturing Company. (See Kane, John J., assignor.)
- Allis-Chalmers Manufacturing Company. (See Lieber, William H., assignor.)
- Allis-Chalmers Manufacturing Company. (See McCoy, James P. A., assignor.)
- Allis-Chalmers Manufacturing Company. (See Newhouse, Ray C., assignor.)
- Allis-Chalmers Manufacturing Company. (See Patitz, Johann F. M., assignor.)
- Allis-Chalmers Manufacturing Company. (See Wersel, Charles J., assignor.)
- Allis-Chalmers Manufacturing Company. (See Williamson, Robert B., assignor.)
- Allis, Dexter W., Whitman, Mass. Speed governor for phonographs and other purposes. No. 1,432,943; Oct. 24.
- Allis, Dexter W., Whitman, Mass. Yielding driving mechanism. No. 1,436,072; Nov. 21.
- Allis, Hannora E., administratrix. (See Allis, Thomas V.)
- Allis, Thomas V., deceased, Pittsburgh, Pa.; H. E. Allis, administratrix. Machine for charging sheet and tin-plate bars into furnaces. No. 1,402,036; Jan. 3.
- Allis, Thomas V., deceased, by H. E. G. Allis, administratrix, Pittsburgh, Pa. Method of and furnace for heat-treating sheet and tin-plate bars. No. 1,417,012; May 23.
- Allison, Arthur E. (See Ash, V. B., and Allison.)
- Allison, Clifford E., Portland, Oreg. Hoisting device. No. 1,413,884; Apr. 25.
- Allison, Daniel K., Milwaukee, Wis. Machine for mixing dough. No. 1,426,444; Aug. 22.
- Allison, Evangeline K., Miami, Ariz. Combination eyebrow pencil. No. 1,429,823; Sept. 19.
- Allison, Isaiah. (See Leighty, W. J., and Allison.)
- Allison, Isaiah, Downers Grove, and W. J. Leighty, Chicago, Ill. Combined tie plate and rail anchor. No. 1,431,769; Oct. 10.
- Allison, James M., assignor of one-half to E. W. Trook, Indianapolis, Ind. Balloon kite. No. 1,432,515; Oct. 17.
- Allison, John F., et al. (See Underwood, James B., assignor.)
- Allison, Robert P., Baltimore, Md. Disk wheel. No. 1,428,741; Sept. 12.
- Allison, Robert P., Richmond, Va. Disk wheel. No. 1,428,742; Sept. 12.
- Allison, Walter B. (See Reid, F. G., and Allison.)
- Allith-Prouty Company. (See Lonbom, A. H., and Perry, assignors.)
- Allith-Prouty Company. (See Older, Roy B., assignor.)
- Alman, Charles W., Ottumwa, Iowa. Flagstaff. No. 1,416,669; May 23.
- Alson, Thomas, and W. W. Sibson, assignors to The Philadelphia Drying Machine Company, Philadelphia, Pa. Device for supporting chinaware or the like during manufacture. No. 1,412,592; Apr. 11.
- Alsop, Thomas, and W. W. Sibson, assignors to Philadelphia Drying Machine Company, Philadelphia, Pa. Drying machine. No. 1,412,593; Apr. 11.
- Alsop, Thomas, and W. W. Sibson, assignors to Philadelphia Drying Machine Company, Philadelphia, Pa. Drying machine. No. 1,412,594; Apr. 11.
- Alsop, Thomas, and W. W. Sibson, assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Drying machine. No. 1,414,973; May 2.
- Allstatter, Edwin E., Hamilton, Ohio. Latch for sliding doors. No. 1,408,240; Feb. 28.
- Allsteel Ridewell Tire and Rubber Company, The. (See Huetter, Andrew, assignor.)
- Allsteelcup Company. (See Erickson, Axel F., assignor.)
- Allsteel-Fenip Company. (See Goblet, Peter, assignor.)
- Allsteel Ridewell Tire and Rubber Company. (See Huetter, Andrew, assignor.)
- Allwork, Robert H., New York, N. Y. Flat-top roll-cover desk. No. 1,421,357; July 4.
- Ally Company Inc. (See Bullock, Samuel A., assignor.)
- Allyn, Leonard E., West Mystic, Conn., assignor of one-half to J. L. Dalton, New Orleans, La. Fluid-current conveyers. No. 1,439,722; Dec. 26.
- Allyn, Robert S., trustee. (See Clark, Norris E., as signor.)
- Allyne, Edmund E., assignor, by mesne assignments, to Aluminum Manufactures Incorporated, Cleveland, Ohio. Piston. No. 1,426,138; Aug. 15.
- Alma Manufacturing Company of Baltimore City. (See Kerngood, Allen H., assignor.)
- Almedia, Jose M., Rock Springs, Wyo. Necktie. No. 1,438,885; Dec. 12.
- Almen-Crosby Motors Co. (See Almen, John O., assignor.) (Reissue.)
- Almen, John O., Seattle, Wash. Internal-combustion engine. No. 1,411,556; Apr. 4.
- Almen, John O., assignor to Almen-Crosby Motors Co., Inc., Seattle, Wash. Internal-combustion engine. (Reissue.) No. 1,544,2; Sept. 5.
- Almen, John O., Seattle, Wash., assignor to Almen-Crosby Motors Company, Inc. Internal-combustion engine. No. 1,430,275; Sept. 26.
- Almond, T. R., Manufacturing Company. (See Hubbell, Henry S., assignor.)
- Almy, Ferdinand B., Melrose, Mass. Automobile top. No. 1,403,664; Jan. 17.
- Alonso, Segundo P., Habana, Cuba. Angle-measuring apparatus. No. 1,420,175; June 20.
- Alquist, Charles V., Norwich, Conn. Grinding machine. No. 1,402,704; Jan. 3.
- Alquist, John C., Portland, Conn. Tool holder. No. 1,422,247; July 11.
- Alsatan Machine Works, Limited. (See Fossel, Joseph, assignor.)
- Alschäusky, Josef F. S., Gautzsch, near Leipzig, Germany. Trombone. No. 1,428,675; Sept. 12.
- Alschuler, Alfred S., Chicago, assignor to R. H. Alschuler, Winnetka, Ill. Distributing and sorting merchandise. No. 1,440,204; Dec. 26.
- Alschuler, Ernest, New York, N. Y. Battery hand lamp. No. 1,404,258; Jan. 24.
- Alschuler, Ernest, New York, N. Y. Battery hand lamp. No. 1,404,259; Jan. 24.
- Alschuler, Ernest, New York, N. Y. Battery hand lamp. No. 1,436,226; Nov. 21.
- Alschuler, Ernest, Chicago, Ill., assignor to United States Electric Manufacturing Corporation, New York, N. Y. Battery handlamp. No. 1,409,147; Mar. 14.
- Alschuler, R. H. (See Alschuler, Alfred S., assignor.)
- Alseika, Benis, Brighton, Mass. Drilling machine. No. 1,409,909; Mar. 21.
- Alseth, Stengrim, Osakis, Minn. Flytrap. No. 1,427,050; Aug. 22.
- Alsip, John F., Tacoma, and W. B. Alsip, Seattle, Wash. Cigar tray. No. 1,439,351; Dec. 19.
- Alsip, Ward B. (See Alsip, John F. and W. B.)
- Alsop, Bertha S., New York, N. Y. Garment supporter. No. 1,404,181; Jan. 24.
- Alsop, James N., Owensboro, Ky., assignor to Packer's Meat Smoking Corporation, Chicago, Ill. Treating organic and inorganic substances. No. 1,402,203; Jan. 3.
- Alsop, James N., Owensboro, Ky., assignor to Packer's Meat Smoking Corporation, Chicago, Ill. Method of and apparatus for treating organic substances. No. 1,402,204; Jan. 3.
- Alspaugh, James S., Portsmouth, Ohio. Gear-shifting mechanism. No. 1,402,131; Jan. 3.
- Alspaugh, James S., Portsmouth, Ohio. Means for extracting sand from the bottoms of bodies of water. No. 1,402,334; Jan. 3.
- Alspaugh, James S., Portsmouth, Ohio. Automatic gear-shift control. No. 1,413,561; Apr. 25.
- Alspaugh, James S., Portsmouth, Ohio. Gear-shift mechanism. No. 1,431,207; Oct. 10.
- Alt, Otto, Kiel, assignor to Fried. Krupp Aktiengesellschaft Germaniaewerft, Kiel-Gaarden, Germany. Piston for internal-combustion engines. No. 1,405,887; Feb. 7.
- Altenbaugh, William F. (See Welch, J. C., and Altenbaugh.)
- Altenberg, George P., assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Dispensing apparatus. No. 1,412,329; Apr. 11.
- Altenberg, George P., assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Dispensing apparatus. No. 1,412,330; Apr. 11.
- Altergott, Henry, Sheboygan, Wis. Attachable band brake. No. 1,417,880; May 30.
- Altgelt, Rudolph J., assignor to Oliver Chilled Plow Works, South Bend, Ind. Ridge-leveling implement. No. 1,405,086; Jan. 31.
- Altgelt, Rudolph J., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,405,087; Jan. 31.
- Altgelt, Rudolph J., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,405,088; Jan. 31.
- Altgelt, Rudolph J., assignor to Oliver Chilled Plow Works, South Bend, Ind. Wheel. No. 1,410,540; Mar. 28.
- Altgelt, Rudolph J., assignor to Oliver Chilled Plow Works, South Bend, Ind. Hitch device. No. 1,428,517; Sept. 12.
- Altgelt, Rudolph J., assignor to Oliver Chilled Plow Works, South Bend, Ind. Yoke construction for rolling colters and the like. No. 1,428,518; Sept. 12.
- Altgelt, Rudolph J., assignor to Oliver Chilled Plow Works, South Bend, Ind. Wheel-operated power-lift mechanism. No. 1,434,978; Nov. 7.
- Althaus, Walter G., assignor of one-fourth to H. B. Richmond, Shawano, Wis. Automatic stop for sound-reproducing machines. No. 1,420,071; June 20.
- Altheide, Henry. (See Reusch, W., Altheide, and Reusch.)
- Althouse, Charles F., Reading, Pa., assignor to L. Muther, Newton, Mass. Combined guide and work-holding device for folding machines. No. 1,416,660; May 16.
- Althoun, Arthur. (See Nielsen, N. C., and Althoun.)
- Altieri, Emilio, New York, N. Y. Arch supporter. No. 1,434,471; Nov. 7.
- Altman, Helen S., Elcho, Wis. Portable wardrobe. No. 1,425,228; Aug. 8.
- Altman, William O., Westline, Pa. Clothesline. No. 1,427,051; Aug. 22.
- Alton, Francis O., Waterbury, Conn. Auxiliary air inlet for internal-combustion engines. No. 1,421,135; June 27.
- Altschuler, Joseph, Los Angeles, Calif., assignor to Keyograph Corporation. Film-numbering machine. No. 1,428,352; Sept. 5.
- Altstidter, George, Vienna, Austria. Tire-healing composition. No. 1,434,764; Nov. 7.
- Altwegg, Jean, Lyon, France, assignor to Societe Chimique des Usines du Rhone, Paris, France. Production of organic silver alcosols. No. 1,413,151; Apr. 18.

Alphabetical list of patentees—Continued.

- Altwegg, Jean, Lyon, assignor to Societe Chimique des Usines du Rhone, (Anciennement Gilliard P. Monnet et Cartier), Paris, France. Preparation of the dialkyl-amino-ethyl derivatives of theobromine. No. 1,414,333; May 2.
- Altwegg, Jean, Lyon, France, assignor to Societe Chimique Des Usines Du Rhone, Paris, France. Obtaining calcium salt of acetyl salicylic acid. No. 1,431,863; Oct. 10.
- Altwegg, Jean, and Joanny Landrivo, Lyon, France, assignors to Societe Chimique des Usines du Rhone (Anciennement Gilliard P. Monnet et Cartier), Paris, France. Process for the manufacture of new mono and di- β -oxyethyl-amino-benzoic esters. No. 1,418,900; June 6.
- Aluminum Company of America. (See Edwards, J. D., Frary, and Churchill, assignors.)
- Aluminum Company of America. (See Frary, Francis C., assignor.)
- Aluminum Company of America. (See Hoopes, William, assignor.)
- Aluminum Company of America. (See Milligan, Lowell H., assignor.)
- Aluminum Company of America. (See Sherwin, Ralph S., assignor.)
- Aluminum Company of America. (See Varney, Theodore, assignor.)
- Aluminum Die-Casting Corporation. (See Bungay, George W., assignor.)
- Aluminum Manufactures Incorporated. (See Allyne, Edmund E., assignor.)
- Aluminum Manufactures, Incorporated. (See Amick, Clair J., assignor.)
- Aluminum Manufacturers, Incorporated. (See Hook, Henry C., assignor.)
- Aluminum-Schweisswerk A.-G. (See Grubenmann, Max, assignor.)
- Aluminum Seal Company. (See Sharp, John, assignor.)
- Alvey, William S., Philadelphia, Pa. Nursing bottle. No. 1,418,268; June 6.
- Alvord, Clayton H. (See Schwarzmenn, W. E., and Alvord.)
- Alvord, Clinton, Worcester, Mass. Loom for weaving tufted pile fabrics. No. 1,436,619; Nov. 21.
- Alvord, W. C. (See Thomas, Edwin E., assignor.)
- Alwart, Paul J., Chicago, Ill. Portable apparatus for elevating and screening coal and other unscreened material. No. 1,432,738; Oct. 24.
- Amalgamated Zinc De Bavay's. (See Avery, David, assignor.)
- Amatel, Harold, East Orange, N. J., assignor to Westinghouse Lamp Company. Shipping, display, and vending carton. No. 1,434,979; Nov. 7.
- Amberg, Rudolf H. (See Feldkamp, Frederick A., assignor.)
- Amber, George B., and H. F. Shaw, assignors to F. A. Whitney Carriage Company, Leominster, Mass. Finishing articles in basketware. No. 1,424,972; Aug. 8.
- Amber, Isaac, Jeannette Borough, assignor to Jeannette Glass Company, Jeannette, Pa. Glass display stand. No. 1,438,805; Dec. 12.
- Ambrose, Davis, Louisville, Ky. Rail clamp. No. 1,418,122; May 30.
- Ambrose, Frank F., Los Angeles, Calif., assignor to Union Steam Pump Company, Battle Creek, Mich. Rotary pump. No. 1,407,620; Feb. 21.
- Ambrose, Ranford H., Denver, Colo. Wrench. No. 1,405,250; Jan. 31.
- Ambuhl, William H., Philadelphia, Pa. Dental implement. No. 1,433,332; Oct. 24.
- Ambursen Engineering Company. (See Ambursen, Nils F., assignor.)
- Ambursen, Nils F., Newton, Mass., assignor, by mesne assignments, to Ambursen Engineering Company. Apparatus for constructing concrete floors. No. 1,439,281; Dec. 19.
- Amburn, Gustave A., San Francisco, Calif. Motor sled. No. 1,419,483; June 13.
- Amelianovich, Joseph A., Chicago, Ill. Thermostatically-controlled sadiron. No. 1,435,096; Nov. 7.
- Ameln, Robert, and C. O. J. Montelius, Stockholm, Sweden, assignors to Svenska Akkumulator-Aktiebolaget Jungner, Stockholm, Sweden. Electrode for electric cells. No. 1,411,256; Apr. 4.
- Amend, Otto P., New York, N. Y. Carbureting liquid fuels. No. 1,423,064; July 18.
- Amendt, Hubert, and H. Scherer, Ottawa, Ill. Operating mechanism for turntables. No. 1,410,442; Mar. 21.
- American Abrasive Metals Company. (See Bowers, William C., assignor.)
- American Abrasive Metals Company. (See Edmondson, Ralph S., assignor.)
- American Abrasive Metals Company. (See Neapolitan, Francis J., assignor.)
- American Aero Company. (See Juelson, Edwin, assignor.)
- American Arch Company. (See Anthony, James T., assignor.)
- American Arch Company. (See Himmelright, Raleigh J., assignor.)
- American Arch Company. (See Neff, John P., assignor.)
- American Arch Company. (See Willett, Alfred H., assignor.)
- American Atomized Fuel Company. (See Gentine, Howard I., assignor.)
- American Atomized Fuel Company. (See Whitaker, William H., assignor.)
- American Automatic Connector Company, The. (See Barber, Martin A., assignor.)
- American Automatic Lock and Lift Company. (See Cane, Gordon F., assignor.)
- American Automatic Lock and Lift Company. (See Wheelock, Arthur C., assignor.)
- American Automatic Scale Company. (See Osgood, Louis A., assignor.)
- American Automatic Train Control Corporation. (See Quarles, Charles H., assignor.)
- American Balsa Company. (See Broady, Harry W., assignor.)
- American Balsa Company. (See Lundin, Andreas P., assignor.)
- American Bank Note Company. (See Green, Warren L., assignor.)
- American Bank Note Company. (See Smith, Amos H., assignor.)
- American Blower Company. (See Hazazer, Edgar P., assignor.)
- American Bosch Magneto Corporation. (See Rosenthal, L. W., and Lang, assignors.)
- American Bosch Magneto Corporation. (See Schwarzmenn, W. E., and Alvord, assignors.)
- American Bosch Magneto Corporation. (See Schwarzmenn, Wolfgang E., assignor.)
- American Bottle Cap Company. (See Blakeslee, Everett L., assignor.)
- American Box Board Company. (See Bither, Frederick H., assignor.)
- American Brake Company, The. (See Redford, John E., assignor.)
- American Brake Company, The. (See Wahlert, H. A., and Redford, assignors.)
- American Brake Shoe & Foundry Company, The. (See Thompson, James S., assignor.)
- American Brass Company, The. (See Coe, James R., assignor.)
- American Bromine Company. (See Tobler, Henri, assignor.) (Reissue.)
- American Buckle Co., The. (See Hodge, Robert J., assignor.)
- American Bureau of Engineering, Inc. (See Peers, Henry E., assignor.)
- American Button & Fastener Co. (See Elliott, William E., assignor.)
- American Button & Fastener Co. (See Latham, Albert, assignor.)
- American Can Company. (See Butler, William F., assignor.)
- American Can Company. (See Dunn, George H., assignor.)
- American Can Company. (See Fleischer, Paul W., assignor.)
- American Can Company. (See Graham, Charles W., assignor.)
- American Can Company. (See Grass, Alfred, assignor.)
- American Can Company. (See Gray, James A., assignor.)
- American Can Company. (See Hodgson, John G., assignor.)
- American Can Company. (See Hothersall, John M., assignor.)
- American Can Company. (See Johnson, Axel, assignor.)
- American Can Company. (See Jones, Harry W., assignor.)
- American Can Company. (See Kenny, William J., assignor.)
- American Can Company. (See Miller, Henry, assignor.)
- American Can Company. (See Rudolphi, Frank, assignor.)
- American Can Company. (See Taylor, William E., assignor.)
- American Can Company. (See Thornburgh, Ivan D., assignor.)
- American Can Company. (See Widell, Magnus E., assignor.)
- American Can Company. (See Wood, Frederick P., assignor.)
- American Car Company. (See Schechter, Bernard, assignor.)
- American Car and Foundry Company. (See Baird, William S., assignor.)
- American Car and Foundry Company. (See Constantine, Alphonse A., assignor.)
- American Car and Foundry Company. (See Cork, Tudor C., assignor.)
- American Car and Foundry Company. (See Flinn, Frank P., assignor.)
- American Car and Foundry Company. (See Geoghegan, John T., assignor.)
- American Car and Foundry Company. (See Hergiv, Richard, assignor.)
- American Car and Foundry Company. (See Hochberg, Oscar, assignor.)
- American Car and Foundry Company. (See Kassler, Adolph, assignor.)
- American Car and Foundry Company. (See Neenan, John, assignor.)
- American Car and Foundry Company, et al. (See Ostrander, A. E., and Williams, assignors.)
- American Car and Foundry Company. (See Ostrander, Allen E., assignor.)

- American Car and Foundry Company. (See Penman, Alan C., assignor.)
 American Car and Foundry Company. (See Steinmeyer, John W., assignor.)
 American Car and Foundry Company. (See Stifnagle, William H., assignor.)
 American Car and Foundry Company. (See Voss, William, assignor.)
 American Car and Foundry Company. (See Wolnick, H. F., and Hervig, assignors.)
 American Car and Foundry Company. (See Wolnick, Henry F., assignor.)
 American Cardex Co. (See Rand, J. H., jr., and King, assignors.)
 American Casting and Manufacturing Corporation. (See Dietze, Emil, assignor.)
 American Cellone Company (Inc.). (See Eichengrün, Arthur, assignor.)
 American Cellulose and Chemical Company, Limited. (See Briggs, John F., assignor.)
 American Cement Plaster Company. (See Tyler, Alva W., assignor.)
 American Chain Company. (See Conner, Edward A., assignor.)
 American Chain Company. (See Hilliard, John H., assignor.)
 American Chain Company. (See Loder, Howard W., assignor.)
 American Chain Company. (See Reyburn, John R., assignor.)
 American Cigar Company. (See Schneider, Anthony, assignor.)
 American Coke & Chemical Company. (See Lomax, Clarence S., assignor.)
 American Coke & Chemical Company. (See Roberts, Arthur, assignor.)
 American Colortype Company. (See Cooper, Simon, assignor.)
 American Cotton Oil Company, The. (See Fulson, Charles H., assignor.)
 American Cotton Oil Company, The. (See Lamb, Karl B., assignor.)
 American Cotton Oil Company, The. (See Phillips, Cecil O., assignor.)
 American Cresosoting Company. (See Cook, J. C., and Austin, assignors.)
 American Dan Bottle Seal Corporation. (See Nordstrom, Elof, assignor.)
 American District Telegraph Company. (See Hopkins, Richard M., assignor.)
 American District Telegraph Company. (See Jacoby, W. L., and Hopkins, assignors.)
 American Dressler Tunnel Kilns, Inc. (See Meehan, Paul A., assignor.)
 American Electric Storage Battery Company, et al. (See Crissey, Walter H., assignor.)
 American Electric Tool Company. (See Paulero, Louis, assignor.)
 American Electrical Heater Company. (See Kuhn, F., and Hand, assignors.)
 American Electrical Heater Company. (See Kuhn, F., and Thomas, assignors.)
 American Electrical Heater Company. (See Kuhn, F., Thomas, and Spless, assignors.)
 American Encaustic Tiling Co., Ltd. (See Lillibridge, Harry D., assignor.)
 American Engineering Company. (See Bryant Everett B., assignor.)
 American Engineering Corporation. (See Malm, Axel C. V., assignor.)
 American Equipment Company. (See Myers, Thomas L., assignor.)
 American Equipment Company. (See Sullivan, William J., assignor.)
 American Fixture & Show-Case Mfg. Company. (See Mendle, Milton D., assignor.)
 American Floor Surfacing Machine Company, The. (See Wolfe, Harry H., assignor.)
 American Flyer Manufacturing Co. (See Frohne, Albin, assignor.)
 American Flyer Manufacturing Company. (See Lowe, Ross H., assignor.)
 American Flyer Mfg. Co. (See Nichols, Edgar B., assignor.)
 American Foundry Equipment Company. (See Coburn, Richard G., assignor.)
 American Foundry & Manufacturing Co. (See Sanders, Joseph C., assignor.)
 American Frog & Switch Company, The. (See Haskell, James B., assignor.)
 American Gas Appliance Company. (See Gamble, August, assignor.)
 American Gas Company of New Jersey. (See Warner, Arthur W., assignor.)
 American Gas Machine Co. (See Olsen, Walter, assignor.)
 American Gas Machine Company. (See Hanson, Hans C., assignor.) (Reissue.)
 American Hard Rubber Co. (See Boyer, Edwin S., assignor.)
 American Hard Rubber Co. (See Kohlmeyer, G., Wing, and Schelhammer, assignors.)
 American Hard Rubber Co. (See Schelhammer, Herman, assignor.)
 American Hard Rubber Co. (See Wing, C. E., and Schelhammer, assignors.)
 American Hardware Corporation, The. (See Coney, William T., assignor.)
 American Hardware Corporation. (See Hurd Norman B., assignor.)
 American Hardware Corporation, The. (See Stone, Elmer B., assignor.)
 American Hardware Corporation, The. (See Svenson, Charles W., assignor.)
 American Hardware Corporation, The. (See Teich, Ernest L., assignor.)
 American Hominy Company. (See Beck, George, assignor.)
 American Hominy Company. (See Hill, George B., assignor.)
 American Investigation Corporation. (See Schuette, Johann, assignor.)
 American La France Fire Engine Co. (See Knoblock, James W., assignor.)
 American Laundry Machinery Company, The. (See Andree, William E., assignor.)
 American Laundry Machinery Company, The. (See Benjamin, Dana H., assignor.)
 American Laundry Machinery Company, The. (See Braley, Charles L., assignor.)
 American Laundry Machinery Company, The. (See Couch, Forrest J., assignor.)
 American Laundry Machinery Company. (See Cutter, Edmund I., assignor.)
 American Laundry Machinery Company, The. (See Daly, Michael E., assignor.)
 American Laundry Machinery Company, The. (See Miller, Ernest W., assignor.)
 American Laundry Machinery Company, The. (See Prestwich, Sydney, assignor.)
 American Laundry Machinery Company, The. (See Waream, Charles E., assignor.)
 American Linen Company. (See Steiner, George A., assignor.)
 American Lithographic Company. (See Dietsche, Adolph, Jr., assignor.)
 American Lithographic Company. (See Heinz, Richard, assignor.)
 American Lithographic Company. (See Scherotto, John, assignor.)
 American Lux Products Corporation. (See Troeger, John F. R., assignor.)
 American Machine & Foundry Company. (See Smith, Elberon D., assignor.)
 American Magnesium Corporation. (See Seward, George O., assignor.)
 American Manganese Steel Company. (See Bennett, William H. K., assignor.)
 American Manganese Steel Company. (See Blake, Jud M., assignor.)
 American Manganese Steel Company. (See Clark, John O., assignor.)
 American Manganese Steel Company. (See Edwards, Frederick H., assignor.)
 American Manganese Steel Company. (See Nichols, Wesley G., assignor.)
 American Marine Equipment Corporation. (See Davis, Howard C.)
 American Metal Cap Company. (See Hammer, Charles, assignor.) (Reissue.)
 American Metal Company, The. (See Arstens, Alexander B., assignor.)
 American Metal Company. (See Burkey, H. M., and Schleicher, assignors.)
 American Metal Company. (See Hayward, C. R., and Schleicher, assignors.)
 American Metal Furniture Company. (See Miner, Joseph A., assignor.)
 American Meter Company. (See Lane, George A., assignor.)
 American Milling Co. (See Chindbloom, Carl J., assignor.)
 American Moistening Company. (See Comins, Frank B., assignor.)
 American Motor Body Company. (See Lambert, A. L., and Bell, assignors.)
 American Motor Body Company. (See Lambert, Albert L., assignor.)
 American Motor Patents Company. (See Morski, Thomas, assignor.)
 American Multigraph Company, The. (See Chisholm, Clifton, assignor.) (Reissue.)
 American Multigraph Company, The. (See Craig, Burnie J., assignor.)
 American Multigraph Company, The. (See Demming, William J., assignor.)
 American Multigraph Company, The. (See Gammeter, Harry C., assignor.)
 American Narrow Fabric Company. (See Hazelton, Carl J., assignor.)
 American Nickeloid Company. (See Mueller, John J., assignor.)
 American Optical Company. (See Arnold, Arthur A., assignor.)
 American Optical Company. (See Bugbee, L. W., and Gordon, assignors.)
 American Optical Company. (See Bugbee, Lucian W., assignor.)
 American Optical Company. (See Cozzens, Charles O., assignor.)

Alphabetical list of patentees—Continued.

- American Optical Company. (See Day, George H., assignor.)
 American Optical Company. (See Dey, Gilbert S., assignor.)
 American Optical Company. (See Gunning, William A., assignor.)
 American Optical Company. (See Hill, Harry W., assignor.)
 American Optical Company. (See Maynard, A. E., and Gunning, assignors.)
 American Optical Company. (See Maynard, Albert E., assignor.)
 American Optical Company. (See McKinstry, George W., assignor.)
 American Optical Company. (See Schumacher, E. L., and Boutelle, assignors.)
 American Optical Company. (See Schumacher, Elmer L., assignor.)
 American Optical Company. (See Sheard, C., and Tillyer, assignors.)
 American Optical Company. (See Spaander, Jan, assignor.)
 American Optical Company. (See Tillyer, Edgar D., assignor.)
 American Optical Company. (See Worth, Edmund W., assignor.)
 American Oven & Machine Company. (See Royan, George, assignor.)
 American Piano Company. (See Dwelly, Edwin S., assignor.)
 American Piano Company. (See Russell, Guy M., assignor.)
 American Piano Company. (See Stoddard, Charles F., assignor.)
 American Platinum Works. (See Gaschke, George, assignor.)
 American Production and Trading Company. (See Reichmann, Frank J., assignor.)
 American Pulley Company, The. (See Bilger, W. A., and Walker, assignors.)
 American Pulley Company, The. (See Sharpless, John F., Jr., assignor.)
 American Pulverizer Company. (See Knittel, Paul S., assignor.)
 American Radio & Research Corporation. (See Power, Harold J., assignor.)
 American Radium Company. (See Cuntz, Hermann F., assignor.)
 American Raylo Corporation. (See Deeks, Hiram C. J., assignor.)
 American Ring Company. (See Swick, C. P., and Krantz, assignors.)
 American Road Machinery Company. (See Berry, Earl E., assignor.)
 American Rolling Mill Company, The. (See Beck, W. J., and Aupperle, assignors.)
 American Rotary Engine Co. (See White, H. S., and Boyer, assignors.)
 American Rotary Engine Co. (See White, Henry S., assignor.)
 American Rubber Company. (See Gibbons, W. A., and Ritter, assignors.)
 American Rubber Company. (See Gibbons, Willis A., assignor.)
 American Safety Device Company. (See Johnston, Frank B., assignor.)
 American Sales Book Company. (See Bottle, Edward K., assignor.)
 American Sales Company. (See King, Roy D., assignor.)
 American Sanitary Lock Co. (See Morgan, Donald C., assignor.)
 American Sanitary Refrigeration Co. (See Fischbacher, Philip, assignor.)
 American Scrubbing Equipment Company. (See Finnell, Walter S., assignor.)
 American Seamless Container Company. (See Handford, Arthur W., assignor.)
 American Seamless Container Company. (See Hawley, Jess B., assignor.)
 American Seamless Container Company. (See Rockwood, Charles P., assignor.)
 American Separator Company, The. (See Collins, Thomas, assignor.)
 American Shale Reduction Company. (See Hille, Adolph W., assignor.)
 American Sheet and Tin Plate Company. (See Haarbye, S. B., and McIlvried, assignors.)
 American Sheet and Tin Plate Company. (See Lorig, E. T., and McIlvried, assignors.)
 American Sheet and Tin Plate Company. (See Zimmerman, Rufus E., assignor.)
 American Smelting & Refining Company. (See Alexander, Harry H., assignor.)
 American Smelting & Refining Company. (See Howard, Guy C., assignor.)
 American Smelting and Refining Company. (See Howard, William H., assignor.)
 American Smelting and Refining Company. (See Lannon, Franklin P., Jr., assignor.)
 American Smelting and Refining Company. (See Thiele, Adolph A., assignor.)
 American Smelting & Refining Company. (See Van Amburgh, Charles, assignor.)
 American Smelting and Refining Company. (See Wagstaff, Richard A., assignor.)
 American Speed-O-Feeder Company, The. (See Wood, Harry L., assignor.)
 American Spotless Street System, Inc. (See Richardson, G. J., and Sachs, assignors.)
 American Spotless Street System, Inc. (See Richardson, George J., assignor.)
 American Standard Tool Company. (See Wiard, Frederick, assignor.)
 American Steam Conveyor Corporation. (See Griffin, Lorne A., assignor.)
 American Steam Conveyor Corporation, et al. (See Nolan, Clyde, assignor.)
 American Steam Gauge & Valve Manufacturing Company. (See Hopkins, Frank H., assignor.)
 American Steam Truck Company. (See Jacobson, Era C., assignor.) (Reissue.)
 American Steel Company. (See Scanlon, H. J., and Kelly, assignors.)
 American Steel Company. (See Scanlon, Hugh J., assignor.)
 American Steel Foundries. (See Bauer, Carl E., assignor.)
 American Steel Foundries. (See Chiles, George S., assignor.)
 American Steel Foundries. (See Floyd, George G., assignor.)
 American Steel Foundries. (See Hedgcock, William C., assignor.)
 American Steel Foundries. (See Janney, Robert E. L., assignor.)
 American Steel Foundries. (See Lamont, J. A., and Walcher, assignors.)
 American Steel Foundries. (See Lamont, John A., assignor.)
 American Steel Foundries. (See Peycke, Armand H., assignor.)
 American Steel Foundries. (See Sparrow, Arthur, assignor.)
 American Steel Foundries. (See Stearns, Walter A., assignor.)
 American Steel Foundries. (See Whitney, L. L., and Hedgcock, assignors.)
 American Steel Foundries. (See Whitney, Loren L., assignor.)
 American Steel and Wire Company of New Jersey, The. (See Carstarphen, Frederick C., assignor.)
 American Steel and Wire Company of New Jersey. (See Ekstrand, Lars M., assignor.)
 American Steel and Wire Company of New Jersey, The. (See Howe, James F., assignor.)
 American Steel and Wire Company of New Jersey, The. (See Morrison, Max, assignor.)
 American Stove Company. (See Blackford, Atwell J., assignor.)
 American Stove Company. (See Meacham, Benjamin E., assignor.)
 American Stove Company. (See Munzer, Charles, assignor.)
 American Stove Company. (See Nicolaus F. G., and Roy, assignors.)
 American Stove Company. (See Nicolaus, Frederic G., assignor.)
 American Stove Company. (See Stockstrom, Charles A., assignor.)
 American Sugar Refining Company, The. (See Hoffbauer, Alfred, assignor.)
 American Tag Company. (See Swett, Arthur H., assignor.)
 American Taximeter Company, The. (See Karich, Rudolf R., assignor.)
 American Telephone and Telegraph Company. (See Affel, H. A., and Davidson, Jr., assignors.)
 American Telephone and Telegraph Company. (See Affel, Herman A., assignor.)
 American Telephone and Telegraph Company. (See Avery, Frederick, assignor.)
 American Telephone and Telegraph Company. (See Bailey, Rand S., assignor.)
 American Telephone and Telegraph Company. (See Barnes, Harry F., assignor.)
 American Telephone and Telegraph Company. (See Barrows, Leon D., assignor.)
 American Telephone and Telegraph Company. (See Berryman, David, assignor.)
 American Telephone and Telegraph Company. (See Best, Fred H., assignor.)
 American Telephone and Telegraph Company. (See Blackwell, Otto B., assignor.)
 American Telephone and Telegraph Company. (See Blauvelt, William G., assignor.)
 American Telephone and Telegraph Company. (See Bown, Ralph, assignor.)
 American Telephone and Telegraph Company. (See Carson, John R., assignor.)
 American Telephone and Telegraph Company. (See Clark, A. B., and Crisson, assignors.)
 American Telephone and Telegraph Company. (See Clark, Alva B., assignor.)
 American Telephone and Telegraph Company. (See Cooper, Lester W., assignor.)

Alphabetical list of patentees—Continued.

- American Telephone and Telegraph Company. (See Cris-
son, George, assignor.)
American Telephone and Telegraph Company. (See Dar-
row, Leo H., assignor.)
American Telephone and Telegraph Company. (See Dar-
row, Wirt E., assignor.)
American Telephone and Telegraph Company. (See David-
son, John, Jr., assignor.)
American Telephone and Telegraph Company. (See Dem-
arest, C. S., and Loynes, assignors.)
American Telephone and Telegraph Company. (See Dem-
arest, Charles S., assignor.)
American Telephone and Telegraph Company. (See Espen-
schied, L., and Affel, assignors.)
American Telephone and Telegraph Company. (See Espen-
schied, Lloyd, assignor.)
American Telephone and Telegraph Company. (See Har-
den, William H., assignor.)
American Telephone and Telegraph Company. (See Har-
per, Alfred U., assignor.)
American Telephone and Telegraph Company. (See
Harrison, William H., assignor.)
American Telephone and Telegraph Company. (See Hitch-
cock, Harry W., assignor.)
American Telephone and Telegraph Company. (See Hoyt,
Ray S., assignor.)
American Telephone and Telegraph Company. (See Kent,
Robert J., assignor.)
American Telephone and Telegraph Company. (See Klein,
Charles H., assignor.)
American Telephone and Telegraph Company. (See Kuhn,
G. W., and Lundius, assignors.)
American Telephone and Telegraph Company. (See Kuhn,
George W., assignor.)
American Telephone and Telegraph Company. (See
Martin, William H., assignor.)
American Telephone and Telegraph Company. (See Mc-
Curdy, Ralph G., assignor.)
American Telephone and Telegraph Company. (See More-
house, Lyman F., assignor.)
American Telephone and Telegraph Company. (See Mor-
ris, Robert W., assignor.)
American Telephone and Telegraph Company. (See Ny-
quist, Harry, assignor.)
American Telephone and Telegraph Company. (See Os-
borne, Harold S., assignor.)
American Telephone and Telegraph Company. (See Pierce,
Ralph E., assignor.)
American Telephone and Telegraph Company. (See Potts,
Louis M., assignor.)
American Telephone and Telegraph Company. (See Ren-
shaw, Richard A., assignor.)
American Telephone and Telegraph Company. (See
Rhodes, William A., assignor.)
American Telephone and Telegraph Company. (See Rose,
Arthur F., assignor.)
American Telephone & Telegraph Company. (See Shack-
leton, Samuel P., assignor.)
American Telephone and Telegraph Company. (See
Smith, Temple C., assignor.)
American Telephone and Telegraph Company. (See
Thompson, George K., assignor.)
American Telephone and Telegraph Company. (See
Toomey, J. F., and Loynes, assignors.)
American Telephone and Telegraph Company. (See
Toomey, John F., assignor.)
American Telephone and Telegraph Company. (See Van
Dyke, Karl S., assignor.)
American Telephone and Telegraph Company. (See Ver-
nam, Gilbert S., assignor.)
American Telephone and Telegraph Company. (See
White, Ralph H., assignor.)
American Telephone and Telegraph Company. (See
Wright, John W., assignor.)
American Thermophone Company. (See Browne, T. C.,
and Brush, assignors.)
American Thermophone Company. (See van Lynden,
Robert A. Baron.)
American Thermos Bottle Company. (See Walker, W. B.,
and Visscher, assignors.)
American Tobacco Company, The. (See Goldsmith Her-
man, assignor.)
American Tool Works Company, The. (See Schatz, H. W.,
and Sosa, assignors.)
American Type Founders Company. (See Benton, Linn
B. and M. F., assignors.)
American Well Works, The. (See Chapman, Matthew T.,
assignor.)
American Whaley Engine Company. (See Whaley, Wil-
liam B. S., assignor.)
American Wiremold Company. (See Abbott, Chauncey
W., assignor.)
American Wiremold Company. (See Petersen, Anker,
assignor.)
American Wood Rim Company, The. (See Kenrick,
Charles H., assignor.)
American Wood Rim Company, The. (See Lobdell, Ed-
ward, Jr., assignor.)
American Woodworking Machinery Company. (See Fos-
ter, C. B., and Clement, assignors.)
American Wood Working Machinery Company. (See Mac-
Dowell, G. S., and Perkins, assignors.)
American Wringer Company. (See Webster, Henry A., as-
signor.)
American Writing Paper Company. (See Kamm, Oliver,
assignor.)
American Writing Paper Company. (See Rindfusz, R. E.,
and Voorhees, assignors.)
American Zinc, Lead & Smelting Company. (See Ross-
man, William F., assignor.)
American Zinc, Lead & Smelting Company. (See Weten-
gel, Charles A., assignor.)
Ames, Adelbert, Jr., Tewksbury, Mass. Exhibiting device.
No. 1,427,428; Aug. 29.
Ames, Butler, Lowell, Mass. Rotor for electrical machines.
No. 1,415,761; May 9.
Ames, Butler, Lowell, Mass. Stator for electrical ma-
chines. No. 1,415,762; May 9.
Ames, Chester R. (See Forbess, W. A., and Ames.)
Ames, Fletcher, Berkeley, Calif. Tent and bed. No.
1,423,171; July 18.
Ames Ship Building and Dry Dock Company. (See
Eisinga, Dirk, assignor.)
Amiard, Pierre J. R. (See Quiry, Alfred G., assignor.)
Amick, Clair J., assignor, by mesne assignments, to Alumi-
num Manufactures, Incorporated, Cleveland, Ohio.
Metal mold. No. 1,420,903; June 27.
Amidon, Fayette A. (See Girard, Albert G., assignor.)
Amlee, Ole G., St. Paul, Minn. Toy pistol. No. 1,424,432;
Aug. 1.
Amon, Glenn R., Helena, Ohio. Market basket. No.
1,439,392; Dec. 19.
Amonsens, George H. (See Amonsens, Gilbert and G. H.)
Amonsens, Gilbert and G. H., Minneapolis, Minn. Draft
appliance. No. 1,404,678; Jan. 24.
Amoroso, Silvie, Boston, assignor of one-half to A. Frisch,
Winthrop, Mass. Pneumatic element for vehicle wheels.
No. 1,406,324; Feb. 14.
Amos, John A., St. Louis, Mo., and E. Wanamaker,
Chicago, Ill. Portable lamp. No. 1,435,133; Nov. 7.
Amphlett, Herbert P., and E. L. Jones, Victoria, London,
assignors to The Hume Pipe and Concrete Construction
Company, Limited, London, England. Molding of ob-
jects by means of centrifugal force. No. 1,427,508;
Aug. 29.
Amsbary, William N., and W. F. Larson, New Castle,
Colo. Refrigerator. No. 1,409,511; Mar. 14.
Amsden, Albert W., assignor to The L. S. Starrett Com-
pany, Athol, Mass. Twist-drill gauge. No. 1,439,282;
Dec. 19.
Amsler, Alfred, Schaffhausen, Switzerland. Tonometer.
No. 1,423,293; July 18.
Amsler, Walter O., Edgewood, Pa. Pulverized-fuel-feed-
ing system. No. 1,412,642; Apr. 11.
Amsler, Walter O., Pittsburgh, Pa. Annealing furnace or
leer. No. 1,415,622; May 9.
Amstutz, Peter B., Bluffton, Ohio. Road-working ma-
chine. No. 1,440,263; Dec. 26.
Amthor, Edward M. (See Nye, V. W., and Amthor.)
Amundson, Peter A., assignor of one-half to T. A. Amund-
son, Oconomowoc, Wis. Variable-speed gear. No.
1,422,072; July 11.
Amundson, Thomas A. (See Amundson, Peter A., as-
signor.)
Anaconda Copper Mining Company. (See Laist, F., and
Jones, assignors.)
Anaconda Copper Mining Company. (See Laist, F., Frick,
Klepcko, and Davidson, assignors.)
Anagnost, Apostle, New York, N. Y. String-instrument
key. No. 1,429,391; Sept. 19.
Ananian, Hohannis A., Paterson, N. J. Toy. No.
1,407,621; Feb. 21.
Anatmos Metals and Furnace Corporation. (See De Bats,
Jean H. L., assignor.)
Anchor Cap & Closure Corporation. (See Ramsey,
George, assignor.)
Anchor Cap and Closure Corporation. (See Scofield, Ed-
gar, assignor.)
Anchor Cap & Closure Corporation. (See Townsend,
Harry E., assignor.)
Anchor Concrete Machinery Co. (See Bradley, Charles
W., assignor.)
Anciano, Ramón V. (See de Aguiar, A., and Anciano.)
Andeen, Carl, Haddam, Conn. Toothed harrow. No.
1,438,513; Dec. 12.
Anders, Paul, and P. M. Ginnings, Urbana, Ill. Dis-
tilling apparatus. No. 1,418,691; June 6.
Andersen, Alfred R., Rock Springs, Wyo. Antiskidding
device. No. 1,415,289; May 9.
Andersen, Anders P., Providence, R. I. Automobile radi-
ator. No. 1,408,060; Feb. 28.
Andersen, Anders P., Providence, R. I. Automobile radi-
ator. No. 1,425,933; Aug. 15.
Andersen, Chris F., et al. (See Keller, John F., assignor.)
Andersen, Christian F., and J. R. Mitchell, Jacksonville,
Ill. Dirigible auto headlight. No. 1,428,353; Sept. 5.
Andersen, Elmer L., assignor of one-third to A. C. Gresen,
Chicago, Ill. Stamp-canceling mail box. No. 1,404,182;
Jan. 24.
Andersen, Joakim U. F., and Adolf F. B. Iversen, Copen-
hagen, Denmark. Automatic starting and short-
circuiting device for asynchronous motors. No. 1,412,228;
Apr. 11.
Andersen, Offer L. K., Struer, Denmark. Boiler-fur-
pre-ventative. No. 1,416,925; May 23.
Andersen, Samuel, Eau Claire, Wis. Building block. No.
1,413,562; Apr. 25.

Alphabetical list of patentees—Continued.

- Anderson, Adolph, West Allis, Wis. Card holder. No. 1,423,294; July 18.
- Anderson, Adolph F., assignor to Apex Appliance Company, Chicago, Ill. Power-transmitting mechanism. No. 1,405,382; Feb. 7.
- Anderson, Adolph F., assignor to Apex Appliance Company, Chicago, Ill. Washing machine. No. 1,423,295; July 18.
- Anderson, Adolph F., assignor to Apex Appliance Company, Chicago, Ill. Washing machine. No. 1,432,229; Oct. 17.
- Anderson, Adolphus A., Hagerman, Tex. Tire-pressure meter. No. 1,427,146; Aug. 29.
- Anderson, Albert H., Hammond, Ind. Agricultural implement. No. 1,401,949; Jan. 3.
- Anderson, Albin E., Oakmont, assignor of two-thirds to E. M. Verner and J. W. Macfarlane, Pittsburgh, Pa. Wire-rope machine. No. 1,422,073; July 11.
- Anderson, Alexander B., and R. L. Wood, Salt Lake City, Utah. Frame for license-number plates. No. 1,411,257; Apr. 4.
- Anderson, Andrew, Tacoma, Wash. Screw driver. No. 1,440,123; Dec. 26.
- Anderson, Andrew H. and J. H., Loverna, Saskatchewan, Canada. Wrench. No. 1,412,821; Apr. 18.
- Anderson, Andrew W., Enid, Okla. Vacuum cleaner. No. 1,409,910; Mar. 21.
- Anderson, Arthur N. (See Saklatwalla, B. D., and Anderson.)
- Anderson, August, Independence, Kans. Eccentric lever. No. 1,421,136; June 27.
- Anderson, August P., assignor to Anderson-Rees Refrigerating Machine Co., Chicago, Ill. Refrigerating apparatus. No. 1,439,051; Dec. 19.
- Anderson, Austin E., Randolph, N. Y. Milking machine. No. 1,432,654; Oct. 17.
- Anderson, Axel, St. Paul, and C. O. Wold, assignors to Russell Grader Manufacturing Co., Minneapolis, Minn. Grader blade. No. 1,406,325; Feb. 14.
- Anderson, Axel G., Chicago, Ill. Drilling machine. No. 1,432,516; Oct. 17.
- Anderson, Axel H., Fairmont, W. Va. Rail-supporting element. No. 1,408,427; Mar. 7.
- Anderson, Axel J., Brooklyn, N. Y. Rotary engine. No. 1,406,140; Feb. 7.
- Anderson-Barngrover Mfg. Co. (See Thompson, Albert R., assignor.)
- Anderson Bros. Mfg. Co. (See Anderson, Swan F., assignor.)
- Anderson, Carl A., North Braddock, Pa. Automatic fire alarm. No. 1,405,251; Jan. 31.
- Anderson, Carl A., San Diego, Calif. Reinforcement for clothes creases. No. 1,413,885; Apr. 25.
- Anderson, Carl A., Minneapolis, Minn. Rear package carrier for bicycles and the like. No. 1,417,223; May 23.
- Anderson, Carl E., Grand Haven, Mich. Forming turn-buckles or the like. No. 1,413,821; Apr. 25.
- Anderson, Carl E., East Orange, assignor to Eastern Tool & Manufacturing Company, Bloomfield, N. J. Slide for the straps of garments. No. 1,423,639; July 25.
- Anderson, Carl E., Stratford, assignor to The Bryant Electric Company, Bridgeport, Conn. Electric switch. No. 1,437,332; Nov. 28.
- Anderson, Carl F., Brookfield, and L. W. Knapp, Berwyn, assignors to Conion Electric Washer Company, Cicero, Ill. Cylinder cover for washing machines. No. 1,409,911; Mar. 21.
- Anderson, Carl O., Springfield, assignor, by mesne assignments, to Thorne Brothers, Incorporated, Chicago, Ill. Power drive for cream separators. No. 1,430,716; Oct. 3.
- Anderson, Carl T., Madison, Wis. Desk. No. 1,414,247; Apr. 25.
- Anderson, Charles E., Chicago, and F. P. Perkins, Park Ridge, Ill. Air-lift water system. No. 1,436,425; Nov. 21.
- Anderson, Charles J., and W. H. Van Dyke, Corning, N. Y. Combination lock. No. 1,423,384; July 18.
- Anderson, Charles W., Brooklyn, N. Y. Hoist elevator. No. 1,416,395; May 16.
- Anderson, Charles W., Brooklyn, N. Y. Power control for drive mechanism. No. 1,422,809; July 18.
- Anderson, Charles W., Brooklyn, N. Y. Ratchet clutch for drive mechanism. No. 1,423,172; July 18.
- Anderson, Charles W., Brooklyn, N. Y. Hoisting machine. No. 1,426,139; Aug. 15.
- Anderson, Chester L., and J. T. Smith, Springfield, Mass. Pipe wrench. No. 1,421,137; June 27.
- Anderson, Chris A., Watertown, S. Dak. Gauge-glass guard. No. 1,434,645; Nov. 7.
- Anderson, Clark T. (See Hartman, F. O., and Anderson.)
- Anderson Company, The. (See Hoffman, Roscoe C., as signor.)
- Anderson, Duncan M., Toronto, Ontario, Canada. Making prepared food. No. 1,415,137; May 9.
- Anderson, E. D., Inc. (See Anderson, E. D., and Beckmann, assignors.)
- Anderson, E. D., Inc. (See Anderson, Ernest D., assignor.)
- Anderson, E. D., Inc. (See Beckmann, Carl, assignor.)
- Anderson, E. D., Inc. (See Elder, Earl B., assignor.)
- Anderson, Edgar. (See Wege, P. M., and Anderson.)
- Anderson, Edward M., Jersey City, N. J., assignor to Anderson & Prigge, Inc., New York, N. Y. Binder. No. 1,436,073; Nov. 21.
- Anderson, Edward S., Mabel, Minn. Road drag. No. 1,420,605; June 20.
- Anderson, Elder E., Minneapolis, Minn. Spring wheel. No. 1,433,592; Oct. 31.
- Anderson Electric & Equipment Company. (See Anderson, Ernest G. K., assignor.)
- Anderson, Elihu M., Kansas City, Kans. Pump drain. No. 1,402,826; Jan. 10.
- Anderson, Elmer J., Prophetstown, Ill. Governor. No. 1,402,094; Jan. 10.
- Anderson, Emil C. (See Petersen, Ernest H., assignor.)
- Anderson, Emil, assignor to Multiplex Tool Company, Inc., New York, N. Y. Machine tool. No. 1,408,428; Mar. 7.
- Anderson, Emil, Brooklyn, N. Y., assignor to The Universal Turbine Company, Newark, N. J. Condenser pump. No. 1,415,975; May 16.
- Anderson, Emil E. W., Stockholm, Sweden. Gas meter. No. 1,421,138; June 27.
- Anderson, Ernest D., Long Beach, assignor to E. D. Anderson, Inc., New York, N. Y. Means for wrapping and packing articles. No. 1,417,591; May 30.
- Anderson, Ernest D., and C. Beckman, assignors to E. D. Anderson Incorporated, New York, N. Y. Machine for packing goods. No. 1,412,226; Apr. 11.
- Anderson, Ernest D., and C. Beckman, assignors to E. D. Anderson, Inc., New York, N. Y. Packaging machine. No. 1,412,227; Apr. 11.
- Anderson, Ernest D., and C. Beckmann, assignors to E. D. Anderson, Inc., New York, N. Y. Labeling machine. No. 1,439,052; Dec. 19.
- Anderson, Ernest D., and Carl Beckmann, assignors to E. D. Anderson, Inc., New York, N. Y. Packaging machine. No. 1,409,211; Mar. 14.
- Anderson, Ernst G. K., assignor to Anderson Electric & Equipment Company, Chicago, Ill. Electric switch. No. 1,403,222; Jan. 10.
- Anderson, Ernst G. K., assignor, by mesne assignments, to Appleton Electric Co., Chicago, Ill. Spot lamp. (Re-issue.) No. 15,437; Aug. 29.
- Anderson, Ernst G. K., assignor, by mesne assignments, to Appleton Electric Co., Chicago, Ill. Reel structure for extension cords. No. 1,431,083; Oct. 3.
- Anderson, Evald, assignor to International Precipitation Company, Los Angeles, Calif. Method and apparatus for electrical precipitation of suspended particles from gases. No. 1,409,901; Mar. 21.
- Anderson Foundry and Machine Company. (See Latshaw, Leonard J., assignor.)
- Anderson, Frank B., Cleveland, Ohio. Filter. No. 1,403,369; Jan. 10.
- Anderson, Frank C., Cincinnati, Ohio. Switch stand. No. 1,407,454; Feb. 21.
- Anderson, Frank C., Cincinnati, Ohio. Switch stand. No. 1,413,152; Apr. 18.
- Anderson, Frank C., Cincinnati, Ohio. Switch-rail guard. No. 1,414,767; May 2.
- Anderson, Frank C., Cincinnati, Ohio. Switch stand. No. 1,427,082; Aug. 29.
- Anderson, Frank C., Portland, Me. Securing device. No. 1,426,945; Aug. 22.
- Anderson, Frank P., assignor of one-half to G. C. Urlin, Columbus, Ohio. Metal casement window and metal weather strip therefor. No. 1,429,915; Sept. 26.
- Anderson, Fred J., Triumph, Minn. Tractor guide. No. 1,419,909; June 20.
- Anderson, Fred L., Kansas City, Mo. Burglar alarm. No. 1,408,920; Mar. 7.
- Anderson, Fred S., Richmond, Ind. Automatic sprinkler system. No. 1,404,827; Jan. 31.
- Anderson, Frederick P. (See Hayward, G. W., and Anderson.)
- Anderson, Fritz A. (See Burdick, F. F., and Anderson.)
- Anderson, Fritz A., New York, N. Y. Screw driver. No. 1,404,562; Jan. 24.
- Anderson, Fritz A., Milton, Wis., assignor to Burdick Cabinet Company. Adjustable casing for therapeutic application of light. No. 1,411,074; Mar. 28.
- Anderson, Fritz A., Milton, Wis., assignor to Burdick Cabinet Company. Water and air cooled lamp structure. No. 1,435,192; Nov. 14.
- Anderson, Fritz A., Milton, Wis., assignor to Burdick Cabinet Company. Water-cooled lamp. No. 1,435,193; Nov. 14.
- Anderson, George A. (See Pierce, R. H., and Anderson.)
- Anderson, George M., Akron, Ohio. Cistern. No. 1,435,097; Nov. 7.
- Anderson, George W. (See Anderson, Walter E., and G. W.)
- Anderson, Gus G., Miami, Ariz. Animal trap. No. 1,429,011; Sept. 12.
- Anderson, Gustaf A., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Car truck. No. 1,414,915; May 2.
- Anderson, Gustaf A., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Car truck. No. 1,414,916; May 2.
- Anderson, Gustaf A., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Car truck. No. 1,414,917; May 2.

- Anderson, Gustaf A., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Car truck. No. 1,414,918; May 2.
- Anderson, Gustaf A., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Car truck. No. 1,414,919; May 2.
- Anderson, Gustaf A., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Car truck. No. 1,414,920; May 2.
- Anderson, Gustaf A., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Car truck. No. 1,414,921; May 2.
- Anderson, Gustaf A., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Car truck. No. 1,414,922; May 2.
- Anderson, Gustaf A., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Car truck. No. 1,414,923; May 2.
- Anderson, Gustaf A., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Car truck. No. 1,414,924; May 2.
- Anderson, Gustaf A., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Car truck. No. 1,414,925; May 2.
- Anderson, Gustaf A., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Truck side frame. No. 1,422,074; July 11.
- Anderson, Gustave F., assignor to Paragon Can & Cap Company, Inc., Brooklyn, N. Y. Cap-feeding device for threading machines. No. 1,423,173; July 18.
- Anderson, Hans, Oakland, Calif. Single-blade plane. No. 1,414,974; May 2.
- Anderson, Harley E., Chicago, Ill. Brake and clutch control mechanism for self-propelled vehicles. No. 1,433,771; Oct. 31.
- Anderson, Harry T., Butler, assignor to Standard Steel Car Company, Pittsburgh, Pa. Car-door mechanism. No. 1,402,995; Jan. 10.
- Anderson, Harry T., Butler, Pa., assignor to Harry Vissering & Company, Chicago, Ill. Manufacture of railway draft-gear yokes. No. 1,417,480; May 30.
- Anderson, Harry T., Butler, Pa., assignor to Harry Vissering & Company, Chicago, Ill. Manufacture of railway draft-gear yokes. No. 1,419,346; June 13.
- Anderson, Harry T., Butler, assignor to Standard Steel Car Company, Pittsburgh, Pa. Ratchet device. No. 1,428,824; Sept. 12.
- Anderson, Harry T., assignor of one-half to S. Hansson, Butler, Pa. Connecting bar. No. 1,436,074; Nov. 21.
- Anderson, Hector G. S. (See Tisdale, G. H., Anderson, and Thornhill.)
- Anderson, Helmer. (See Zesbaugh, L. G., and Anderson.)
- Anderson, Henry C., assignor to Reliance Elevator Company, Chicago, Ill. Elevator. No. 1,413,886; Apr. 25.
- Anderson, Henry G., Inwood, Iowa. Collar saddle. No. 1,426,533; Aug. 22.
- Anderson, Herman A., Long Beach, Calif. Liquid-fuel meter. No. 1,412,263; Apr. 11.
- Anderson, Herman A., Pittsburgh, and H. R. Smith, Wilkesburg, assignors to The Union Switch & Signal Company, Swissvale, Pa. Impedance bond. No. 1,439,680; Dec. 26.
- Anderson, Hiram C., New York, N. Y. Resilient wheel. No. 1,425,623; Aug. 15.
- Anderson, Isaac, Oakland, Calif. Candy-dipping device. No. 1,428,872; Sept. 12.
- Anderson, Isaac, Oakland, Calif. Dipping device. No. 1,436,560; Nov. 21.
- Anderson, Ivan, East Elmhurst, N. Y. Liquid-level gauge. No. 1,421,365; July 4.
- Anderson, James, Paris, France. Device for transforming ice into snow. No. 1,428,829; Sept. 12.
- Anderson, James A., Morgan, Utah. Charging and discharging device. No. 1,408,430; Mar. 7.
- Anderson, James A., Morgan, and J. L. Anderson, Salt Lake City, Utah; said J. L. Anderson assignor to said J. A. Anderson. Sterilizer. No. 1,408,429; Mar. 7.
- Anderson, James B. (See Garner, J. B., and Anderson.)
- Anderson, James B., Portland, Oreg. Aeroplane-braking device. No. 1,420,509; June 20.
- Anderson, James B., Portland, Oreg. Hydroaeroplane. No. 1,420,606; June 20.
- Anderson, James B., assignor to Pumptless Blow Torch Company, Pittsburgh, Pa. Plumber's furnace. No. 1,438,678; Dec. 12.
- Anderson, James C., East Orange, N. J., assignor to Varley Duplex Magnet Company. Winding machine. No. 1,427,509; Aug. 29.
- Anderson, James D. and W. R., Detroit, Mich. Ladder. No. 1,436,138; Nov. 21.
- Anderson, James L., Bayonne, N. J., assignor to Davis-Bournonville Company, New York, N. Y. Welding. No. 1,402,996; Jan. 10.
- Anderson, James L., Bayonne, N. J., assignor to Davis-Bournonville Company, New York, N. Y. Welding. No. 1,402,997; Jan. 10.
- Anderson, James L., Bayonne, N. J., assignor, by mesne assignments, to Air Reduction Company, Incorporated, New York, N. Y. Wire-feeding device. No. 1,431,916; Oct. 17.
- Anderson, James L., Bayonne, N. J., assignor, by mesne assignments, to Air Reduction Company, Incorporated, New York, N. Y. Autogenous welder. No. 1,438,285; Dec. 12.
- Anderson, Jennie C., et al. (See Weeden, Arthur W., assignor.)
- Anderson, John. (See Atack, F. W., and Anderson.)
- Anderson, John A., et al. (See Engelbrekt, Gustaf, assignor.)
- Anderson, John A., Boston, Mass. Timer. No. 1,420,012; June 20.
- Anderson, John A., Geneseo, Ill. Attachment for bearings. No. 1,428,513; Sept. 12.
- Anderson, John E., Jamestown, N. Dak. Grinding machine. No. 1,409,641; Mar. 14.
- Anderson, John F., Oakland, Calif. Exhaust box. No. 1,417,224; May 23.
- Anderson, John F., Oakland, Calif. Exhausting food containers. No. 1,429,392; Sept. 19.
- Anderson, John F., Oakland, Calif. Canning machine. No. 1,434,580; Nov. 7.
- Anderson, John F., Jr., and J. C. Masters, Indianapolis, Ind. Combination drill and tap. No. 1,408,793; Mar. 7.
- Anderson, John H. (See Anderson, Andrew H. and J. H.)
- Anderson, John H., St. Paul, Minn. Wagon tongue. No. 1,424,064; July 25.
- Anderson, John L. (See Anderson, James A. and J. L.)
- Anderson, John L., Ogden, Utah. Nesting camp heater. No. 1,419,600; June 13.
- Anderson, John M., Sweet Springs, Mo. Drum for stoves and heaters. No. 1,436,849; Nov. 28.
- Anderson, John M. S., assignor to The General Machine and Manufacturing Company, Bridgeport, Conn. Bottle stopper. No. 1,421,118; June 27.
- Anderson, John P., assignor to Scotts Shipbuilding & Engineering Company Limited, Greenock, Scotland. Cut-out gear for steam turbines. No. 1,435,683; Nov. 14.
- Anderson, John S., Canby, Minn. Hose clamp. No. 1,435,684; Nov. 14.
- Anderson, John W., South Bend, Ind. Timer display and demonstrating stand. No. 1,411,768; Apr. 4.
- Anderson, Julius P., assignor of one-half to H. Lagerquist, Des Moines, Iowa. Surfacing machine. No. 1,409,512; Mar. 14.
- Anderson, Lauritz W., Waterbury, Conn. Shade holder. No. 1,417,481; May 30.
- Anderson, Magnus C., assignor to Lee Trailer & Body Co., Chicago, Ill. Rear-dump vehicle. No. 1,402,730; Jan. 10.
- Anderson, Mike E., Clarksville, Ark. Photographic-tray rocker. No. 1,416,396; May 16.
- Anderson, Nels, Flint, Mich. Boring machine. No. 1,429,916; Sept. 26.
- Anderson, Nels B., and J. A. Berg, Astoria, Oreg., assignors of one-half to Seattle-Astoria Iron Works, Seattle, Wash. Can salter. No. 1,416,156; May 16.
- Anderson, Nelson F., Los Angeles, Calif. Machine for making door butt mortises. No. 1,430,874; Oct. 3.
- Anderson, Nils H., Trumbull, Conn. Sensitive spindle bearing. No. 1,429,393; Sept. 19.
- Anderson, Olaf A., Hamilton, Ohio. Door latch. No. 1,426,445; Aug. 22.
- Anderson, Otto, and F. W. Salsbury, Pawtucket, R. I. Windshield cleaner for automobiles. No. 1,419,601; June 13.
- Anderson, Per A., New York, N. Y. Brake. No. 1,427,084; Aug. 29.
- Anderson, Per M., Hartford, Conn. Work holder. No. 1,415,855; May 16.
- Anderson, Peter A., and M. T. Peck, Chicago, Ill. Hair waver. No. 1,439,498; Dec. 19.
- Anderson, Peter F., assignor of one-half to P. S. Lound, Prentice, Wis. Wrench. No. 1,421,366; July 4.
- Anderson, Ralph, assignor of one-half to H. D. Rominger, Fresno, Calif. Oiling system for gasoline engines. No. 1,427,768; Sept. 5.
- Anderson, Raymond M., assignor to G. M. Holley, Detroit, Mich. Fluid valve, thermostatically controlled. No. 1,413,212; Apr. 18.
- Anderson, Raymond M., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. No. 1,439,857; Dec. 26.
- Anderson-Rees Refrigerating Machine Co. (See Anderson, August P., assignor.)
- Anderson, Rexford O., Houston, Tex. Heating apparatus. No. 1,439,988; Dec. 26.
- Anderson, Richard, Deane Bolton, and J. C. Blackhurst, Chorley, England. Machine for beaming yarns. No. 1,437,703; Dec. 5.
- Anderson, Richard B. (See Robinson, Sarah, assignor.)
- Anderson, Robert A., Caldwell, assignor to Gamon Meter Company, Newark, N. J. Water meter. No. 1,411,258; Apr. 4.
- Anderson, Robert D. H., New York, N. Y. Collapsible stand. No. 1,424,271; Aug. 1.
- Anderson, Robert H., Ambler, Pa., assignor to Asbestos Shingle, Slate & Sheathing Company. Fiber cement composition and method and apparatus for forming same. No. 1,408,241; Feb. 28.
- Anderson, Robert J., Sidney, Ohio. Pivoted wringer structure for washing machines. No. 1,417,656; May 30.
- Anderson, Robert J., El Paso, Tex., assignor to International Fuel Conservation Co., Phoenix, Ariz. Combustion process. No. 1,433,059; Oct. 24.
- Anderson, Roy H., assignor of one-half to H. G. Hastings, Allentown, and A. H. Elliott, Philadelphia, Pa. Shoe protector. No. 1,403,474; Jan. 17.

Alphabetical list of patentees—Continued.

- Anderson, Roy H., assignor to H. G. Hastings, Allentown, and A. H. Elliott, Philadelphia, Pa. Toe protector. No. 1,420,302; June 20.
- Anderson, Rual P., Gore, Va. Fuel attachment. No. 1,403,998; Jan. 17.
- Anderson, Samuel E., and L. F. Campbell, Hardin, Ill. Fabric dispensing and measuring machine. No. 1,420,607; June 20.
- Anderson, Swan F., assignor to Anderson Bros. Mfg. Co., Rockford, Ill. Surface-spotting tool. No. 1,487,035; Nov. 28.
- Anderson, Thore W., Arlington, Mass. Sanitary milk-bottle cover. No. 1,409,812; Mar. 14.
- Anderson, Thore W., Arlington, Mass. Thumb tack. No. 1,409,813; Mar. 14.
- Anderson, Ulrich, Wausau, Wis. Cushion tire and rim therefor. No. 1,421,755; July 4.
- Anderson, Vincent G., Kenosha, Wis., assignor to F. C. Austin, Chicago, Ill. Walking-motion propelling apparatus. No. 1,429,551; Sept. 19.
- Anderson, Vincent G., Pitt., Minn., assignor to F. C. Austin, Chicago, Ill. Excavator or other supporting means. No. 1,431,864; Oct. 10.
- Anderson, Walter E., and G. W. Idaho Falls, Idaho. Valve-operating mechanism. No. 1,435,951; Nov. 21.
- Anderson, Walter H., London, England. Carburetor for internal-combustion engines. No. 1,415,423; May 9.
- Anderson, Wilfred. (See Butler, H. and H., Hayhurst, and Alderson.)
- Anderson, Will C., Corona, Calif. Aligning clip for gaskets and the like. No. 1,435,887; Nov. 14.
- Anderson, William, Newark, N. J. Door lock and applying the same. No. 1,423,825; July 25.
- Anderson, William B., assignor to Haggard & Marcusson Co., Chicago, Ill. Bed. No. 1,437,213; Nov. 28.
- Anderson, William J., Caulfield, near Melbourne, Victoria, Australia. Automatic electric brooder. No. 1,402,335; Jan. 3.
- Anderson, William J., Caulfield, near Melbourne, Victoria, Australia. Automatic electric incubator. No. 1,406,164; Feb. 14.
- Anderson, William J., Hyde, England. Hat shield or pad. No. 1,421,139; June 27.
- Anderson, William J., Hyde, England. Showcard, calendar and the like. No. 1,421,367; July 4.
- Anderson, William J., Hyde, England. Display stand. No. 1,433,978; Oct. 31.
- Anderson, William M., Minneapolis, Minn. Caster cup. No. 1,402,998; Jan. 10.
- Anderson, William R. (See Anderson, James D. and W. R.)
- Andersson, William T., Cleveland, Ohio. Safe for tired wheel rims. No. 1,406,601; Feb. 14.
- Andersson, William T., Cleveland, Ohio. Safe for tired wheel rims. No. 1,406,805; Feb. 14.
- Anderson & Frigge, Inc. (See Anderson, Edward M., assignor.)
- Andersson, John A. J., Laholm, Sweden. Sheet-metal roof. No. 1,433,333; Oct. 24.
- Anderton, Herbert F. (See Bailey, G., and Robertshaw, assignors.)
- Anderton, Robert C., assignor to one-half to G. H. Pippy, San Francisco, Calif. Lock for explosion engines. No. 1,410,443; Mar. 21.
- Andes, Eugene B., Lancaster, Pa. Firearm. No. 1,415,976; May 16.
- Andes, Eugene B., Lancaster, Pa. Toy firearm. No. 1,437,879; Dec. 5.
- Andes, Eugene B., Lancaster, Pa., assignor, by mesne assignments, to J. J. Edmiston, Columbus, Ohio. Toy. No. 1,430,875; Oct. 3.
- Andlauer, Albert P. (See Becker, F. A., and Andlauer.)
- Andreae, Edward F., Newark, N. J., assignor to General Lead Batteries Company. Storage-battery terminal. No. 1,420,675; June 27.
- Andreason, Christian, Sacramento, Calif. Vehicle bumper. No. 1,412,820; Apr. 18.
- Andreau, Roland L., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Making acetyl isoborneol. No. 1,420,399; June 20.
- Andrée, William E., Chicago, Ill., assignor to The American Laundry Machinery Company, Norwood, Ohio. Locking and release treadle mechanism for garment presses. No. 1,403,826; Jan. 17.
- Andren, Birger T., assignor to A. O. Smith Corporation, Milwaukee, Wis. Movable platform for positioning special machines and tools. No. 1,408,156; Feb. 28.
- Andres, Frank M. (See Crisenberry, B. F., and Andres.)
- Andres, George S., Chicago, Ill. Cylinder construction. No. 1,413,372; Apr. 18.
- Andresen, Hilmar A., Erie, Pa. Electromagneto machine. No. 1,406,806; Feb. 14.
- Andresen, Jacob, Minneapolis, Minn. Electrically-illuminated fireproof Christmas wreath. No. 1,436,003; Nov. 21.
- Andresen, Julius C., assignor to California Barrel Company, San Francisco, Calif. Cover fastener for shipping pails. No. 1,425,311; Aug. 8.
- Andrew, Frederick W., Brooklyn, N. Y. Lock. No. 1,438,164; Dec. 12.
- Andrew, Frederick W., assignor to Eisemann Magneto Corporation, Brooklyn, N. Y. Oscillating magneto. No. 1,416,670; May 23.
- Andrew, Frederick W., assignor to Eisemann Magneto Corporation, Brooklyn, N. Y. Telephone receiver of the watchcase type. No. 1,439,785; Dec. 26.
- Andrew, Thomas, Rochdale, England, assignor to No. 2 D. R. Cotton Mills, Limited, Regent's Park, county of London, England. Treatment of canvas and similar woven fabrics. No. 1,425,934; Aug. 15.
- Andrew, William, Cincinnati, Ohio. Apparatus for producing fluted columns of sheet metal. No. 1,420,608; June 20.
- Andrew, William K., Milwaukee, Wis. Governor. No. 1,405,178; Jan. 31.
- Andrews, Charles G., Denver, Colo. Air and steam bag for vulcanizers. No. 1,428,201; Sept. 5.
- Andrews Crane Corporation. (See Andrews, Donald S., assignor.)
- Andrews, Donald S., assignor to Andrews Crane Corporation, Cleveland, Ohio. Hoisting and conveying machine. No. 1,417,013; May 23.
- Andrews, Donald S., assignor to Andrews Crane Corporation, Cleveland, Ohio. Hoisting and conveying device. No. 1,417,014; May 23.
- Andrews, Donald S., assignor to Andrews Crane Corporation, Cleveland, Ohio. Hoisting and conveying device. No. 1,417,015; May 23.
- Andrews, Donald S., assignor to Andrews Crane Corporation, Cleveland, Ohio. Hoisting and conveying device. No. 1,429,012; Sept. 12.
- Andrews, Ewart S., Beckenham, England. Vaporizer for liquefied gases. No. 1,417,292; May 23.
- Andrews, Frank W., assignor, by mesne assignments, to The Superior Refrigerating Company, Wapakoneta, Ohio. Refrigerating apparatus. No. 1,419,097; June 6.
- Andrews, Jarvis M. (See Troland, L. T., Ball, and Andrews.)
- Andrews, Jesse W. (See Evans, H. L., and Andrews.)
- Andrews, Jesse W., and H. L. Evans, Newport, R. I., assignors to Carton-filling Machinery Corporation, Newark, N. J. Carton-filling machine. No. 1,439,536; Dec. 19.
- Andrews, Josiah S., Buffalo, N. Y. Vehicle jack. No. 1,428,519; Sept. 5.
- Andrews, Louis A., Newton Upper Falls, Mass. Pump. No. 1,431,355; Oct. 10.
- Andrews, Paul I., Kennebunk, Me. Box holder for berry pickers. No. 1,406,326; Feb. 14.
- Andrews, Paul I., Kennebunk, Me. Antifriction attachment for greenhouse benches. No. 1,419,484; June 13.
- Andrews, Stephen, New York, N. Y. Armor for tires. No. 1,428,467; Sept. 5.
- Andrews, William A., Detroit, Mich. Electric liquid heater. No. 1,405,475; Feb. 7.
- Andrick, Wallace P., Hohokus, and J. F. Dahl, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,415,853; May 16.
- Andrioli, Vittorio, New York, N. Y. Boiler circulating device. No. 1,403,534; Jan. 17.
- Andrioli, Vittorio, Schenectady, N. Y. Stay rod. No. 1,412,502; Apr. 11.
- Andrist, Loren, W. R., Mankato, Minn. Camping attachment for motor vehicles. No. 1,426,031; Aug. 15.
- Andrusyszyn, Fedio. (See Haniuk, Wasy, assignor.)
- Andrusyszyn, Frank, Revloc, Pa. Car-seat construction. No. 1,423,508; July 25.
- Andrusyszyn, Frank, assignor of one-fourth to W. Klymko, Nanty Glo, and one-fourth to A. Senczak, Revloc, Pa. Sliding-door lock. No. 1,423,509; July 25.
- Anduaga, Simon, Jr., and J. Luevano, Mexico, Mexico. Life-saving apparatus for elevators and cages. No. 1,440,049; Dec. 26.
- Anelli, Joseph. (See Polo, A., and Anelli.)
- Angel, Edmond C., Chattanooga, Tenn. Gaseous-fuel mixer. No. 1,419,710; June 13.
- Angel, Erik G. R., Trollhattan, Sweden. Cooling liquids. No. 1,435,142; Nov. 14.
- Angel, Herbert, Brooklyn, assignor to The Western Union Telegraph Company, New York, N. Y. Cable telegraphy. No. 1,431,865; Oct. 10.
- Angeletti, Joseph M., New York, N. Y. Tire trimmer. No. 1,424,433; Aug. 1.
- Angell, Emmett D., Milwaukee, Wis. Support. No. 1,420,676; June 27.
- Angell, Fred P., Battle Creek, Mich. Dual valve for hydrants. No. 1,411,259; Apr. 4.
- Angell, Frederick H. (See Simpson, Robert D., assignor.)
- Angell, S. Alice, executrix. (See Simpson, Robert D., assignor.)
- Angelo, Alan, Atlantic City, N. J. Deflecting device for automobile lamps. No. 1,417,128; May 23.
- Angerer, Victor, Ridley Park, assignor to William Wharton, Jr., & Co., Incorporated, Easton, Pa. Spring box. No. 1,411,826; Apr. 4.
- Angerer, Victor, Ridley Park, assignor to William Wharton, Jr., & Co., Incorporated, Easton, Pa. Integral guard rail. No. 1,411,827; Apr. 4.
- Angerer, Victor, Ridley Park, assignor to William Wharton, Jr., and Company, Incorporated, Easton, Pa. Integral guard rail. No. 1,421,342; June 27.

Alphabetical list of patentees—Continued.

- Angerer, Victor, Ridley Park, assignor to William Wharton, jr., & Company, Incorporated, Easton, Pa. Railway crossing. No. 1,428,514; Sept. 12.
- Angers, Alfred, Black Lake, Quebec, Canada. Asbestos-fiber separator. No. 1,419,437; June 13.
- Angier, Edward H. (See Harrison, Mary R., assignor.)
- Angier, Edward H. (See Wheildon, William M., assignor.)
- Angier, Edward H., Framingham, Mass. Package. No. 1,432,010; Oct. 17.
- Angier, Edward H., Framingham, and W. M. Wheildon, Ashland, Mass.; said Wheildon assignor to said Angier. Wrapping machine. No. 1,432,009; Oct. 17.
- Angier, Edward H., Framingham, and W. M. Wheildon, Ashland, Mass.; said Wheildon assignor to said Angier. Cartridge belt. No. 1,436,227; Nov. 21.
- Anglada, Joseph A., Jenkintown, Pa., assignor of one-half to C. S. Akley, New York, N. Y. Electric lifting jack. No. 1,414,683; May 2.
- Anglada, Joseph A., Jenkintown, Pa., assignor of one-half to C. S. Akley, New York, N. Y. Pneumatic lifting jack. No. 1,414,718; May 2.
- Anglemyer, Clayton O., and F. E. Perlberg, Racine, Wis. Excavator plow point. No. 1,424,750; Aug. 8.
- Anglemyer, Ray E., Clarendon, Va. Footboard attachment for automobiles. No. 1,431,084; Oct. 3.
- Anglemyer, Willard A., Indianapolis, Ind. Shock snubber. No. 1,405,813; Feb. 7.
- Angsten, Henry W., Chicago, Ill. Wheel construction. No. 1,433,522; Oct. 31.
- Angstrom, Carl J., assignor of one-half to S. Diescher & Sons, Pittsburgh, Pa. Opening sheet-metal packs. No. 1,420,359; June 20.
- Ångström, Hilding K., Malmö, Sweden. Roller or ball bearing for electrically-driven vehicles and the like. No. 1,406,807; Feb. 14.
- Ångström, Hilding K., Malmö, Sweden. Device for transmitting electric current between rotating and non-rotating members. No. 1,433,331; Oct. 24.
- Angus, Arthur R., Brighton, England. Electric control of railway trains or vehicles. No. 1,414,999; May 2.
- Angus, Arthur R., Minehead, England. Railway safe-running device. No. 1,415,214; May 9.
- Angus, Arthur R., Minehead, England. Railway safe-running device. No. 1,417,016; May 23.
- Angus, Donald J., Indianapolis, Ind. Current transformer. No. 1,415,505; May 9.
- Angus, Donald J., Indianapolis, Ind. Volt-ampere meter. (Reissue.) No. 1,5370; June 6.
- Angus, Donald J., Indianapolis, Ind. Movable element for meters. No. 1,425,229; Aug. 8.
- Angus, Donald J., Indianapolis, Ind., assignor to The Crown Cork and Seal Company of Baltimore City. Apparatus for moving articles of magnetic material. No. 1,406,963; Feb. 21.
- Angus, Harry H., assignor to The Atlas Engineering & Machine Company, Limited, Toronto, Ontario, Canada. Accelerating pump for water-heating systems. No. 1,430,141; Sept. 26.
- Angus, John P., Tonawanda, N. Y. Automatic train-control device. No. 1,423,385; July 18.
- Angus, Matthew. (See Denton, F. G. and Angus.)
- Anholzer, Edward F., Appleton, Wis. Bake tin. No. 1,406,522; Feb. 14.
- Anhydrous Food Products Company. (See Beckworth, O. Q. and Hobson, assignors.)
- Ankarberg, Malkus O., Fort Clark, N. Dak. Lathe for truing commutators. No. 1,403,370; Jan. 10.
- Ankener, Henry E., and L. A. Demarco, Baltimore, Md. Game. No. 1,406,705; Feb. 7.
- Ankeny, Roy H., Morgantown, W. Va. Flushing cuspidor. No. 1,424,272; Aug. 1.
- Annard, Robert C., London, England. Flat-bed printing machine. No. 1,437,461; Dec. 5.
- Annen, James E., assignor to National Paper Can Company, Milwaukee, Wis. Machine for inserting end closures in can bodies. No. 1,433,251; Oct. 24.
- Annett, August W., Jersey City, N. J. Plumber's soil. No. 1,439,596; Dec. 19.
- Anninger, Mario, Trieste, Italy. Gas meter. No. 1,421,140; June 27.
- Annis, Ainley. (See Heath, D. B., and Annis.)
- Annis, Burleigh F., Chattanooga, Tenn. Damper. No. 1,419,438; June 13.
- Anniston Electric Steel Corporation. (See Coleman, William R., assignor.)
- Anover, Felix, Manila, Philippine Islands. Pocketknife. No. 1,403,281; Jan. 10.
- Ansbauh, Isaac T. (See Lantz, J. L., Ansbauh, and Loutzenhiser.)
- Anschutz & Co. (See Anschütz-Kaempfe, Hermann, assignor.)
- Anschütz-Kaempfe, Hermann, assignor to Anschutz & Co., Neumühlen, near Kiel, Germany. Boring device and production of vertical boreholes. No. 1,411,896; Apr. 4.
- Anselm, Charles, New York, N. Y. Heater for bottles and the like. No. 1,434,472; Nov. 7.
- Anselm, William B., Norfolk, Va. Folding chair. No. 1,426,140; Aug. 15.
- Ansingh, Herman K., Murraysville, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch latch. No. 1,433,692; Oct. 31.
- Ansonia Clock Co. (See Treganza, Howard J., assignor.)
- Ansonia O & C Co., The. (See Morton, Frederic C., assignor.)
- Anstett, Frank, Wilkes-Barre, Pa. Saxophone. No. 1,440,124; Dec. 26.
- Anstice, Josiah, & Company. (See Pickering, Theodore H., assignor.)
- Anstiss, George P., assignor to G. S. Blakeslee & Co., Chicago, Ill. Washing machine. No. 1,415,506; May 9.
- Anston, George, Shreveport, La. Respiratory apparatus. No. 1,406,141; Feb. 7.
- Anston, George, and G. P. Petropoulos, Chicago, Ill. Coffee-making apparatus. No. 1,408,963; Mar. 7.
- Antaramian, Hrant G., Kenosha, Wis. Striping machine. No. 1,425,312; Aug. 8.
- Antaramian, Hrant G., Kenosha, Wis. Ornamenting process and apparatus. No. 1,431,917; Oct. 17.
- Antholz, Henry W., McDonald, Kans. Mail carrier. No. 1,404,679; Jan. 24.
- Anthony, George C., New York, N. Y., assignor to Stanley Insulating Company, Great Barrington, Mass. Heat-insulated receptacle. No. 1,426,446; Aug. 22.
- Anthony, Arthur, Ethingshall, near Wolverhampton, England. Fastener for driving belts of motor cycles and other vehicles. No. 1,402,560; Jan. 3.
- Anthony, Carl H., Baltimore, Md., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Sprocket wheel. No. 1,433,923; Oct. 31.
- Anthony Company. (See Anthony, W. C., and Heinemann, assignors.)
- Anthony Company. (See Anthony, William C., assignor.)
- Anthony Company. (See Stevenson, W. W., and Bathgate, assignors.)
- Anthony, David S., Lamoni, Iowa, assignor of one-half to E. Hooper, San Antonio, Tex. Piston ring. No. 1,410,727; Mar. 28.
- Anthony, Elliott E., Chicago, Ill. Tool grinder. No. 1,407,455; Feb. 21.
- Anthony, George H., Sykesville, Pa. Dirigible headlamp. No. 1,412,911; Apr. 18.
- Anthony, George H., Sykesville, Pa. Dirigible headlight for locomotives. No. 1,421,368; July 4.
- Anthony, Harold G., Chicago, Ill. Combination floor and platform truck. No. 1,414,163; Apr. 25.
- Anthony, Herman R. C., Madison, Wis. Automobile ventilator. No. 1,408,431; Mar. 7.
- Anthony, James T., East Orange, N. J., assignor to American Arch Company, New York, N. Y. Locomotive fire box. No. 1,402,132; Jan. 3.
- Anthony, Marcus O., New York, N. Y., assignor to M. C. Rosenfeld, Cleveland, Ohio. No. 1,402,468; Jan. 3.
- Anthony, Marcus O., New York, N. Y., assignor to M. C. Rosenfeld, Cleveland, Ohio. Grinding mill. No. 1,425,161; Aug. 8.
- Anthony, Marcus O., assignor to A. Kimball Company, New York, N. Y. Packaging machine. No. 1,412,098; Apr. 11.
- Anthony, Marcus O., New York, N. Y., assignor to H. S. Sampliner, Cleveland, Ohio. Weaving frame. No. 1,427,769; Sept. 5.
- Anthony, Stanley, Boston, Mass. Index. No. 1,419,194; June 13.
- Anthony, Thomas P., Edgewater Park, assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Molding apparatus. No. 1,425,230; Aug. 8.
- Anthony, William C., assignor to Anthony Company, Streator, Ill. Body subdivision. No. 1,425,821; Aug. 15.
- Anthony, William C., and M. Heinemann, assignors to Anthony Company, Streator, Ill. Subframe construction. No. 1,436,075; Nov. 21.
- Anthos, Frank H., Boston, assignor of one-eighth to D. G. Carzis, Cambridge, one-eighth to J. Carzis, one-eighth to J. G. Carzis, and one-eighth to G. Picradis, Lynn, Mass. Metal heel. No. 1,417,881; May 30.
- Anthracite Separator Company. (See Pardee, F., jr., and Lyon, assignors.)
- Antofilli, Giovanni, New York, N. Y. Burglar alarm. No. 1,420,510; June 20.
- Antoine, Alfred D., Chicago, and A. E. Gebert, Wilmette, Ill., assignors to Advance Machine Company, Chicago, Ill. Vapor burner. No. 1,415,215; May 9.
- Anton, Mark G. (See Jones, A. H., and Anton.)
- Antonelli, Orazio, Brooklyn, N. Y. Motion-picture apparatus. No. 1,406,808; Feb. 14.
- Antoni, Guido and U. Pisa, Italy. Blade propeller for submarine boats. No. 1,411,769; Apr. 4.
- Antoni, Ugo. (See Antonio, Guido and U.)
- Antonsanti, Louis, Ponce, P. R. Pump-priming apparatus and process. No. 1,430,611; Oct. 3.
- Antrim, William D., assignor to Welsbach Company, Gloucester City, N. J. Gas heater. No. 1,406,523; Feb. 14.
- Apeldoornsche Machnefabrieken Metaalgieterij voorheen Loog Landaal. (See Ferguson, George, assignor.)
- Aper, Anna B., Olney, Ill. Nursery bath cabinet. No. 1,409,330; Mar. 14.
- Apex Appliance Company. (See Anderson, Adolph F., assignor.)
- Apex Machine Company, The. (See Ziegler, William M., assignor.)
- Apex Specialties Corporation. (See Greenwood, Richard F., assignor.)

Alphabetical list of patentees—Continued.

- Apfel, Adam, Evansville, Wis., assignor, by mesne assignments of one-half to M. Skoda, Oak Park, Ill. Sanitary sugar server. No. 1,430,876; Oct. 3.
- Apfel, Philip F., assignor of one-half to W. E. Mather, Seattle, Wash. Thermostatic switch. No. 1,426,447; Aug. 22.
- Apgar, Milton P. (See Harsley, J. W., and Apgar.)
- Apollo Magneto Corporation. (See Fuegel, G., and Schmid, assignors.)
- Apollo Piano Company, The. (See Clark, Melville, assignor.)
- Appel, Nathan, New York, N. Y. Shaving brush. No. 1,413,953; Apr. 25.
- Appel, Walter D., Cleveland Heights, Ohio. Internal-combustion engine. No. 1,422,810; July 18.
- Appias, Clarence S., Sacramento, Calif. Vehicle curtain fastener. No. 1,422,513; July 11.
- Apple, Vincent G., Dayton, Ohio. Molding press. No. 1,402,705; Jan. 3.
- Apple, Vincent G., Dayton, Ohio. Electric motor. No. 1,407,508; Feb. 21.
- Apple, Vincent G., Dayton, Ohio. Making self-lubricating bearings. No. 1,409,148; Mar. 14.
- Apple, Vincent G., Dayton, Ohio. Making armatures. No. 1,438,422; Dec. 12.
- Apple, Vincent G., Dayton, Ohio. Armature. No. 1,438,423; Dec. 12.
- Applebaum, Harry L., Denver, Colo. Transmission mechanism. No. 1,413,563; Apr. 25.
- Appleby Engineering Company. (See Appleby, James P., assignor.)
- Appleby, Frank C., Pittsburgh, Pa. Slip-sheet-feeding attachment for printing presses. No. 1,403,371; Jan. 10.
- Appleby, James P., assignor to Appleby Engineering Company, Minneapolis, Minn. Ball-forming machine. No. 1,404,334; Jan. 24.
- Appleby, William H., Windsor, Ontario, Canada. Door-latch device. No. 1,427,252; Aug. 29.
- Appleby, William H., Toronto, Ontario, Canada. Bolt fastener. No. 1,427,253; Aug. 29.
- Applegate, Daniel, Port Clinton, Ohio. Valve-grinding machine. No. 1,433,170; Oct. 24.
- Applegate, Edward B., and W. H. Yeomans, assignors to Imperial Furniture Company, Grand Rapids, Mich. Glue mixing and preserving apparatus. No. 1,422,811; July 18.
- Applegate, George. (See Berry, H. C., and Applegate.)
- Applegate, Lee R., Seattle, Wash. Vegetable cubing machine. No. 1,430,049; Sept. 26.
- Applegate, Milton C., New York, N. Y. Liner. No. 1,404,680; Jan. 24.
- Appleman, William H., Belmont, N. Y. Automobile jack. No. 1,433,867; Oct. 31.
- Appleton, Charles, and F. McRea, Surf Inlet, British Columbia, Canada. Insulating and anticorrosive paint and making same. No. 1,430,142; Sept. 26.
- Appleton Electric Co. (See Anderson, Ernst G. K., assignor.)
- Appleton, Frank D., Philadelphia, Pa. Stop for talking machines. No. 1,436,561; Nov. 21.
- Applin, John W., and H. L. Watson, assignors to La Fayette Motors Company, Indianapolis, Ind. Shutter control for vehicles. No. 1,412,822; Apr. 18.
- Apps, Charles H., East Orange, N. J. Water gauge. No. 1,438,208; Dec. 12.
- Apollo Magneto Corporation, Inc. (See Schmid, H., and Fuegel, assignors.)
- Apt, William E., St. Louis, Mo. Rail holder. No. 1,412,264; Apr. 11.
- Aptowicz, Leon, Yonkers, N. Y. Ash receptacle. No. 1,422,165; July 11.
- Aram, Otto, Essington, Pa., assignor to Westinghouse Electric and Manufacturing Company. Refuse grinder and discharge mechanism for stokers. No. 1,405,814; Feb. 7.
- Aramian, Harry S., New York, N. Y. Detachable heel. No. 1,408,964; Mar. 7.
- Arata, Mario F., San Anselmo, Calif. Lingual bar. No. 1,435,909; Nov. 21.
- Arato, Achille, assignor to F. Botta, Turin, Italy. Trailer brake. No. 1,424,273; Aug. 1.
- Arbaugh, Harvey A., and R. E. Keene, Portland, Ind. Building clamp. No. 1,439,499; Dec. 19.
- Arbetblatt, Abraham, Los Angeles, Calif. Steering gear for trailers. No. 1,424,129; July 25.
- Arbetter Felling Machine Company. (See Hayes, Thomas J., assignor.)
- Arbetter Felling Machine Company. (See Moulton, Harley C., assignor.)
- Arbin, Georges, Bondy, France, assignor to Societe Arbin Freres & Gueudré, Brevannes, France. Machine for sewing mats for hothouses. No. 1,413,511; Apr. 18.
- Arbogast, Charles. (See Schaaf, John B., assignor.)
- Arbuckle, Alexander J., Johannesburg, Transvaal, South Africa. Apparatus for separating the liquid and solid components of mixtures of liquids and crushed or ground ore products. No. 1,422,514; July 11.
- Arbuckle, Samuel F., assignor to United States Automotive Corporation, Connersville, Ind. Headlight apparatus. No. 1,409,912; Mar. 21.
- Arbuckle, Samuel F., assignor to United States Automotive Corporation, Connersville, Ind. Tilting reflector for lamps. No. 1,424,793; Aug. 8.
- Arcade Manufacturing Company. (See Tscherning, Henry, assignor.)
- Arcadia Trailer Corporation. (See Collier, Joseph W., assignor.)
- Arcao, James G., Washington, D. C., and T. C. Furr, Rosslyn, Va. Assorting device. No. 1,419,485; June 13.
- Arcate, Joseph J., Brooklyn, and T. V. Fowler, Port Richmond, N. Y. Necktie-securing device. No. 1,410,728; Mar. 28.
- Archer, Charles L., Des Moines, Iowa. Cord tire. No. 1,437,125; Nov. 28.
- Archer, Charles W., Gary, Ind. Preparation for the treatment of pyorrhea. No. 1,433,979; Oct. 31.
- Archer, George T. (See Taylor, S. E., Ellis, and Archer.)
- Archer, Lenah B., executrix. (See Burrows, Linus P.)
- Archer, Robert G., jr. (See Archer, Robert G., sr., and R. G., jr.)
- Archer, Robert G., sr., and R. G., jr., Fort Washington, Pa. Adjustable lamp bracket. No. 1,438,806; Dec. 12.
- Archibald, Harry A., New Rochelle, N. Y. Machine for cutting ribbons of plastic, semiplastic, or solid material. No. 1,437,742; Dec. 5.
- Archibald, Norman F., et al. (See Rowley, Alfred J., assignor.)
- Archibald, Robert A., deceased, Oakland, Calif.; T. C. Van Ness, jr., executor. Spleen extract. No. 1,437,951; Dec. 5.
- Archibald, Whitney A., Bellingham, Wash. Log-loading jack. No. 1,430,717; Oct. 3.
- Arctic Rotary Pump Company. (See Joynt, J., and Bowser, assignors.)
- Ardizzoni, Guy, New York, N. Y. Binding machine. No. 1,420,677; June 27.
- Ardo, Joseph, Newhall, W. Va. Multipropelled aeroplane. No. 1,417,017; May 23.
- Ardo, Joseph, Newhall, W. Va. Valve mechanism. No. 1,421,119; June 27.
- Ardo, Joseph, Newhall, W. Va., assignor of one-half to Galman Horvath, Newhall, W. Va. Submersible flying boat. No. 1,421,369; July 4.
- Arenberg, Albert L., Chicago, Ill. Reflector. No. 1,407,910; Feb. 28.
- Arendt, Morton, C. W. Burrows, and H. Rosenmeyer, assignors, by mesne assignments, to Battery Appliance Corporation, New York, N. Y. Protecting means for electrical systems. No. 1,434,728; Nov. 7.
- Arens, Fernando, Hamburg, Germany. Lining metal tubes, pipes, and the like. No. 1,431,716; Oct. 10.
- Arent, Arthur, Laboratories, Inc. (See Arent, Arthur, assignor.)
- Arent, Arthur, assignor to Arthur Arent Laboratories, Inc., Des Moines, Iowa. Protectively treating wood and the like. No. 1,418,609; June 6.
- Arent, Arthur, assignor to Arthur Arent Laboratories, Inc., Des Moines, Iowa. Protectively treating materials. No. 1,418,610; June 6.
- Arentz, Fred B. (See Backhaus, A. A., and Arentz.)
- Arenz, Joseph. (See Magidson, I., Arenz, and Pfefferkorn.)
- Arey, Fred C., Oak Park, Ill. Apparatus for manufacture of expanded metal. No. 1,412,156; Apr. 11.
- Arey, Samuel E., Fellows, Jay J. Hern, Fellows, and M. S. McFadden, Taft, Calif. Sucker-rod hanger. No. 1,414,541; May 2.
- Argote, Juan. (See Dominguez, Manuel D., assignor.)
- Argubright, Joseph W., Streator, Ill. Food box. No. 1,431,085; Oct. 3.
- Aridor Company, The. (See Moyer, Paul S., assignor.)
- Arii, Jonosuke, Tokyo, Japan. Apparatus for extracting oil or fat. No. 1,437,743; Dec. 5.
- Arkell, Bartlett, assignor to Arkell Safety Bag Company, New York, N. Y. Machine for making stretchable crinkled paper. No. 1,405,384; Feb. 7.
- Arkell Safety Bag Company. (See Arkell, Bartlett, assignor.)
- Arkell Safety Bag Company. (See Wandel, Kurt, assignor.)
- Arkin, Jesse, New York, N. Y. Artificial-tooth anchorage. No. 1,429,552; Sept. 19.
- Arkin, Louis, Boston, Mass. Fastener. No. 1,402,827; Jan. 10.
- Arkwright, Reuben. (See Moeller, I., and Arkwright.)
- Arleskie, William S., Pittston, Pa. Safety device for rolling stock. No. 1,416,926; May 23.
- Armastes, Joseph F., assignor of one-half to B. H. Goldstein, Plymouth, Pa. Distributor. No. 1,403,827; Jan. 17.
- Armieri, Jos. & Co. (See Curioni, Aldo, assignor.)
- Armington, Arthur A., et al., executors. (See Wardwell, Simon W.)
- Armington, Arthur P., Wickliffe, Ohio. Transmission. No. 1,412,157; Apr. 11.
- Armitage, Clifford F., and F. H. Holmes, Newark, N. J., and B. C. Berry, New York, N. Y. Composition of matter for use as paint or stain and insect and vermin repellent. No. 1,439,053; Dec. 19.
- Armitage, George H., Lincoln, assignor to United Lace & Braid Manufacturing Company, Auburn, Cranston, R. I. Machine for making shoe laces and the like. No. 1,423,984; July 25.
- Armitage, Marjorie B., Colorado Springs, Colo. Signal. No. 1,421,141; June 27.
- Armor, James C., Pittsburgh, Pa., assignor to General Electric Company. Transformer. No. 1,402,037; Jan. 3.

Alphabetical list of patentees—Continued.

- Armour, James C., Pittsburgh, Pa., assignor to General Electric Company. Voltage regulation. No. 1,414,248; Apr. 25.
- Armour and Company. (See Powell, Jesse R., assignor.)
- Armour Fertilizer Works. (See MacDowell, C. H., and Meyers, assignors.)
- Armour Fertilizer Works. (See MacDowell, C. H., Meyers, and Pattison, assignors.)
- Armour Fertilizer Works. (See MacDowell, Charles H., assignor.)
- Armour Fertilizer Works. (See Shoeld, Mark, assignor.)
- Armour Grain Company. (See Stoddard, E. S., and Miner, assignors.)
- Armstead Snow Motors, Incorporated. (See Burch, Frederick R., assignor.)
- Armstrong, Abel, San Francisco, assignor of one-half to P. J. Murphy, Riverside, Calif. Adjustable wire-coil-spring machine. No. 1,403,372; Jan. 10.
- Armstrong, Albert E., assignor to James L. Armstrong, Ottawa, Ontario, Canada. Truss. No. 1,413,512; Apr. 18.
- Armstrong, Allen A., assignor of one-half to P. W. Flicker, Cleveland, Ohio. Exercising apparatus. No. 1,409,992; Mar. 21.
- Armstrong, Arthur C., Hammond, Ind. Process of and apparatus for the distillation of oil. No. 1,408,242; Feb. 28.
- Armstrong, Bertha L. (See Tulloch, D. M., and Bodge, assignors.)
- Armstrong, Charles C., Marysville, Ohio. Heating element. No. 1,438,424; Dec. 12.
- Armstrong, Charles G., New York, N. Y. Method and apparatus for garbage disposal. No. 1,415,290; May 9.
- Armstrong Cork Company. (See Fix, Frank, assignor.)
- Armstrong Cork Company. (See Fix, Frank C., assignor.)
- Armstrong Cork Company. (See Lansill, John S., assignor.)
- Armstrong, Edwin H. (See Pupin, M. I., and Armstrong.)
- Armstrong, Edwin H., Yonkers, N. Y. Signaling system. No. 1,424,065; July 25.
- Armstrong, Edwin J., assignor to Ball Engine Company, Erie, Pa. Clam-shell machine. No. 1,401,951; Jan. 3.
- Armstrong, Edwin J., assignor to F. B. McBrier, Erie, Pa. Wrench. No. 1,431,451; Oct. 10.
- Armstrong, Edwin J., assignor to F. B. McBrier, Erie, Pa. Slot-cutting machine. No. 1,432,011; Oct. 17.
- Armstrong, Edwin J., assignor of one-half to A. C. Vicary, Erie, Pa. Power shovel. No. 1,439,216; Dec. 19.
- Armstrong, Eli H., Savannah, Ga. Treating acid phosphate. No. 1,439,054; Dec. 19.
- Armstrong, Evan A. (See Harris, Archer H., assignor.)
- Armstrong, Frank H., Auburn, assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting machine. No. 1,419,196; June 13.
- Armstrong, Frank H., Auburn, N. Y., assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting machine. No. 1,437,214; Nov. 28.
- Armstrong, Frank H., Auburn, N. Y., assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting machine. No. 1,437,215; Nov. 28.
- Armstrong, Frank H., Auburn, N. Y., assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting machine. No. 1,437,216; Nov. 28.
- Armstrong, Frank H., Auburn, and E. L. Harmon, assignors to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting machine. No. 1,419,195; June 13.
- Armstrong, Frank T., assignor of one-third to G. B. Sayre and one-third to Robert D. Nesbitt, Detroit, Mich. Regenerator or fuel vaporizer for internal-combustion engines. No. 1,413,564; Apr. 25.
- Armstrong, James C., Beloit, Wis. Fan. No. 1,424,391; Aug. 1.
- Armstrong, James C., Beloit, Wis. Ventilator. No. 1,432,517; Oct. 17.
- Armstrong, James C., Beloit, Wis. Cooling system for internal-combustion engines. No. 1,432,518; Oct. 17.
- Armstrong, James L. (See Armstrong, Albert E., assignor.)
- Armstrong, John A., assignor to Niagara Metal Stamping Corporation, Niagara Falls, N. Y. Securing device for plates and the like. No. 1,439,682; Dec. 26.
- Armstrong, John J., assignor of one-half to R. B. Booth, Honolulu, Hawaii. Hose coupling. No. 1,437,082; Nov. 28.
- Armstrong Manufacturing Company. (See Watson, George R., assignor.)
- Armstrong, Octavia A., Hay Springs, Nebr. Table. No. 1,420,511; June 20.
- Armstrong, Oscar F., assignor to Ernest D. Haseltine Co., Haverhill, Mass. Sole-grooving machine. No. 1,417,018; May 23.
- Armstrong, Percy A. E., Loudonville, N. Y. Carburizing box. No. 1,407,456; Feb. 21.
- Armstrong, Percy A. E., Loudonville, N. Y. Electrical heating element. No. 1,416,436; May 16.
- Armstrong, Percy A. E., Loudonville, N. Y. Apparatus for molding hollow bodies. No. 1,416,927; May 23.
- Armstrong, Percy A. E., Loudonville, N. Y. Immersion water heater. No. 1,437,481; Dec. 5.
- Armstrong, Percy A. E., Watervliet, N. Y. Bearing. No. 1,422,812; July 18.
- Armstrong, Ralph W., Westfield, assignor of two-thirds to A. Waterman, East Orange, N. J. Cloth clip. No. 1,417,129; May 23.
- Armstrong, Robert B., and G. Paterson, assignors to R. & W. Hawthorn, Leslie & Company, Limited, Newcastle-upon-Tyne, England, and Cockburns Limited, Cardonald, near Glasgow, Scotland. Valve device. No. 1,402,718; Jan. 8.
- Armstrong, Robert F., Kansas City, Mo. Artificial body member. No. 1,423,296; July 18.
- Armstrong, Robert F., assignor to F. W. Pollman, Jr., La Cygne, Kans. Socket. No. 1,408,157; Feb. 28.
- Armstrong, Robert F., assignor to F. W. Pollman, Jr., La Cygne, Kans. Artificial hand. No. 1,409,513; Mar. 14.
- Armstrong Siddeley Motors Limited. (See Smith, Frederick R., assignor.)
- Armstrong Siddeley Motors Limited. (See Viale, Spirito M., assignor.)
- Armstrong Siddeley Motors Limited. (See Wylie, Hamilton N., assignor.)
- Armstrong, Victor C. (See Larchmonth, John H., assignor.)
- Armstrong, Sir W. G., Whitworth and Company. (See Lee, H. W., and Swindale, assignors.)
- Armstrong, William H., New Orleans, La. Poison-bottle cap. No. 1,423,174; July 18.
- Arn, Fred, assignor to J. M. Card Lumber Co., Chattanooga, Tenn. Chock block. No. 1,403,535; Jan. 17.
- Arn, Herman H., Uhrichsville, Ohio. Rivet cutter. No. 1,440,264; Dec. 26.
- Arnao, Charles, Brooklyn, N. Y. Massage apparatus. No. 1,421,756; July 4.
- Arndt, Franklin E., assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio. Bucket-door-closing mechanism. No. 1,406,327; Feb. 14.
- Arndt, Franklin E., assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio. Safety stop for hoisting drums. No. 1,412,643; Apr. 11.
- Arndt, Franklin E., assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio. Truck turntable. No. 1,414,719; May 2.
- Arndt, Franklin E., assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio. Bucket-door-opening mechanism. No. 1,415,291; May 9.
- Arndt, Franklin E., assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio. Coal handling system. No. 1,425,822; Aug. 15.
- Arndt, Franklin E., assignor to The Galion Iron Works and Manufacturing Company, Galion, Ohio. Steering gear for road machines. (Reissue.) No. 15,443; Sept. 5.
- Arndt, Franklin E., assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio. Conveying mechanism for unloading machines. No. 1,437,581; Dec. 5.
- Arndt, John P., Milwaukee, Wis. Circuit breaker. No. 1,403,373; Jan. 10.
- Arndt, John P., Milwaukee, Wis. Circuit breaker. No. 1,404,564; Jan. 24.
- Arndt, John P., Milwaukee, Wis. Disconnecting device. No. 1,422,248; July 11.
- Arndt, Maximillion M., Manitowoc, Wis. Knife for self-binder knotters. No. 1,414,684; May 2.
- Arndt, Maximillion M., Manitowoc, Wis. Posthole digger. No. 1,428,202; Sept. 5.
- Arndt, William F., Watertown, Wis. Pressure-signaling device for tires. No. 1,422,068; July 11.
- Arneson, Charles E., Sioux Falls, S. Dak. Shock absorber. No. 1,434,243; Oct. 31.
- Arneson, Oscar. (See Diers, J. H., and Arneson.)
- Arness, Olaf J., Minneapolis, Minn. Spraying attachment. No. 1,430,348; Sept. 26.
- Arnett, Albert C., Shilo Springs, assignor of one-half to William Finch, Dayton, Ohio. Automobile light reflector. (Reissue.) No. 15,473; Oct. 24.
- Arnold, Arthur A., assignor to American Optical Company, Southbridge, Mass. Glass cutter. No. 1,427,052; Aug. 22.
- Arnold, Benjamin S., Syracuse, N. Y. Poppet valve for internal-combustion engines. No. 1,434,473; Nov. 7.
- Arnold, C. C., et al. (See Howard, George, assignor.)
- Arnold, Charles E., San Diego, Calif. Mail or the like box. No. 1,414,062; Apr. 25.
- Arnold, Charles E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making artificial leather and product thereof. No. 1,408,061; Feb. 28.
- Arnold, Christian J., Walker, Iowa. Wireless corn planter. No. 1,420,465; June 20.
- Arnold-Creager Company, The. (See Graham, Henry W. B., assignor.)
- Arnold, Decatur E., Johnson City, Tenn. Hack saw. No. 1,432,586; Oct. 17.
- Arnold, Douglass L., Chicago, Ill., assignor to International Harvester Company. Internal-combustion engine. No. 1,433,060; Oct. 24.
- Arnold, Edward E., Coventry, and P. St. Clair, jr., Providence, assignors to The Nitrogen Corporation, Providence, R. I. Conducting the ammonia-soda process. No. 1,423,510; July 25.
- Arnold, Edwin E., Pittsburgh, Pa., assignor to Iron City Products Company. Detachable coupling. No. 1,404,260; Jan. 24.
- Arnold, Edwin M., Tulsa, Okla. Luggage carrier for motor vehicles. No. 1,408,965; Mar. 7.
- Arnold, Edwin M., Tulsa, Okla. Fender brace. No. 1,408,966; Mar. 7.

Alphabetical list of patentees—Continued.

- Arnold, Ernest H., assignor to H. M. Strong, Cleveland, Ohio. Automobile fan. No. 1,430,276; Sept. 26.
- Arnold, Everett B., Highland Park, Mich. Ventilating system. No. 1,408,432; Mar. 7.
- Arnold, Frank K. (See Sevigne, H. A., and Arnold.)
- Arnold, Frank P., Watkins, Minn. Tractor wheel and scraper. No. 1,406,809; Feb. 14.
- Arnold, Harold A. (See Huff, Bert M., assignor.)
- Arnold, Harold A., Lenora, Kans. Drop-cover check. No. 1,425,568; Aug. 15.
- Arnold, Harold D., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum-tube circuits. No. 1,403,475; Jan. 17.
- Arnold, Harold D., and J. P. Minton, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Method of and system for testing transmitters or receivers. No. 1,426,807; Aug. 22.
- Arnold, Henry J., Denver, Colo. Sign for roadsides. No. 1,406,916; Feb. 14.
- Arnold, Hiatt N., et al. (See Howard, George, assignor.)
- Arnold, James C., Seattle, Wash. Electric-current controller. No. 1,408,967; Mar. 7.
- Arnold, James C., Seattle, Wash. Sign flasher. No. 1,430,612; Oct. 3.
- Arnold, Karl, Nuremberg, Germany. Making a friction igniter. No. 1,404,261; Jan. 24.
- Arnold, Karl, Nuremberg, Germany. Device for producing sparks for toys. No. 1,415,763; May 9.
- Arnold, Perry, Tipton, Ind. Railway-car, door. No. 1,435,784; Nov. 14.
- Arnold, Ralph T., Detroit, Mich. Automatic carbon remover for internal-combustion engines. No. 1,432,944; Oct. 24.
- Arnold, Samuel, 3d, Ben Avon, Pa. Collector lifting mechanism. No. 1,408,158; Feb. 28.
- Arnold, Samuel, 3d, Ben Avon, Pa. Control mechanism for hoisting apparatus. No. 1,425,569; Aug. 15.
- Arnold, Sherman L., Woodlawn, Pa. Bed bottom. No. 1,423,065; July 13.
- Arnold, Stanley B., Chicago, Ill. Internal-combustion engine. No. 1,438,937; Dec. 19.
- Arnold, Thomas A., Cambridge, N. Y. Box fastener. No. 1,437,083; Nov. 28.
- Arnold, Thomas N., Fairport, N. Y. Toy. No. 1,415,292; May 9.
- Arnold, Valentine, Woodville, Ohio. Limekiln. No. 1,439,597; Dec. 19.
- Arnold, Clarence L., Manitowoc, Wis. Preserving milk. No. 1,403,223; Jan. 10.
- Arnot, Alexander R., Los Angeles, Calif. Shock absorber. No. 1,413,451; Apr. 18.
- Arnot, Alexander R., Los Angeles, Calif. Shock absorber. No. 1,419,098; June 6.
- Arnot, Eugene N., San Francisco, Calif. Shears. No. 1,428,830; Sept. 12.
- Arnot, Robert, Bushey, England. Dye and making same. No. 1,414,164; Apr. 25.
- Arnott, Robert F., Montclair, N. J. Balancing balls. No. 1,424,191; Aug. 1.
- Arnfield, Frederick S., Toronto, Ontario, Canada. Electric water heater. No. 1,414,494; May 2.
- Arntz, Firm: Joh. Wilh. (See Arntz, Oswald, assignor.)
- Arntz, Lew, Des Moines, Iowa. Fastener for envelopes. No. 1,417,790; May 30.
- Arntz, Lew, Des Moines, Iowa. Eyeglass mounting. No. 1,427,996; Sept. 5.
- Arntz, Oswald, assignor to Firm: Joh. Wilh. Arntz, Remscheid, Germany. Saw. No. 1,434,421; Nov. 7.
- Arolan, Ernest A., Jersey City, N. J. Trousers clip. No. 1,414,926; May 2.
- Aromint Manufacturing Company, The. (See Yarga, Paul, assignor.)
- Arones, George B. (See Shore, Frank C., assignor.)
- Aronoff, Joseph, Montreal, Quebec, Canada. Garment pocket. No. 1,429,996; Sept. 26.
- Aronson, Louis V. (See Evans, Fred, assignor.)
- Aronson, Louis V., Newark, N. J. Mechanical eye. No. 1,408,794; Mar. 7.
- Aronson, Louis V., Newark, N. J. Book or box like form savings bank. No. 1,408,795; Mar. 7.
- Aronson, Louis V., Newark, N. J. Sparking pistol. No. 1,410,638; Mar. 28.
- Aronson, Louis V., Newark, N. J. Sparking pistol. No. 1,410,639; Mar. 28.
- Aronson, Louis V., Newark, N. J. Blotter. No. 1,411,557; Apr. 4.
- Aronson, Louis V., Newark, N. J. Pencil. No. 1,411,558; Apr. 4.
- Aronson, Louis V., Newark, N. J. Mechanical toy. No. 1,420,072; June 20.
- Aronson, Louis V., Newark, N. J. Sparking toy. No. 1,422,075; July 11.
- Aronson, Louis V., Newark, N. J. Temperature indicator. No. 1,423,066; July 18.
- Aronson, Louis V., Newark, N. J. Sparking rattle. No. 1,433,171; Oct. 24.
- Aronson, Louis V., Newark, N. J. Pull-chain device. No. 1,434,474; Nov. 7.
- Aronson, Louis V., Newark, N. J. Igniter. No. 1,436,635; Nov. 28.
- Aronson, Meyer L., Hartford, Conn. Printer's guide setter and registering aid. No. 1,410,542; Mar. 28.
- Aronson, Saul. (See Wilkinson, E. E., and Aronson.)
- Arragg, George M., Lawrence, Mass. Spring feeler finger. No. 1,412,595; Apr. 11.
- Arrington, Samuel, New York, N. Y. Aeroplane safety device. No. 1,408,062; Feb. 28.
- Arrott, Albert E. (See Jobe, J. S., Dixon, and Arrott.)
- Arrow Electric Company, The. (See Nero, Arvid H., assignor.)
- Arrow Grip Manufacturing Company. (See Avery, True M., assignor.)
- Arrow Grip Manufacturing Company. (See Griffin, Albert P., assignor.) (Reissue.)
- Arrowsmith Manufacturing Company. (See George, Harry C., assignor.)
- Arschaull, Vadim, Petrograd, Russia. Device for injecting liquid fuel into the working chambers of internal-combustion engines. No. 1,435,787; Nov. 14.
- Art in Buttons, Inc. (See Carron, James A., assignor.)
- Art Mosaic Tile Company. (See Borkenstein, Frank J., assignor.)
- Art Needle Manufacturing Co. (See Baker, Fenner B., assignor.)
- Artamendi, Dionisio, assignor to Beristain & Cia, Barcelona, Spain. Automatic pistol. No. 1,416,671; May 23.
- Arteaga, Ignacio, San Antonio, Tex. Railway switch. No. 1,408,333; Feb. 28.
- Arteme, Thomas K., New York, assignor of one-half to J. P. Drakas, Locust Valley, N. Y. Profilograph. No. 1,428,520; Sept. 12.
- Arthur, Alexander, Youngstown, Ohio. Open-hearth-furnace device. No. 1,414,451; May 2.
- Arthur, Edward D. (See Carter, W. G., and Arthur.)
- Arthur, Ernest L., Pembroke, Va. Bag. No. 1,431,918; Oct. 17.
- Arthur, James B., deceased; by M. R. Arthur, executrix, Joplin, Mo. Ore concentrator. No. 1,416,928; May 23.
- Arthur, Mary R., executrix. (See Arthur, James B.)
- Arthur, Robert C. (See Mannion, M., and Arthur.)
- Arthurs, Emil, Portsmouth, Ohio. Gearing attachment for clothes wringers. No. 1,418,224; May 30.
- Arvin, Richard H., Indianapolis, Ind. Foot warmer for automobiles. No. 1,438,082; Dec. 5.
- Arwe, Henry C., Brooklyn, N. Y. Filter-bag holder. No. 1,408,491; Mar. 7.
- Arwine, Arthur J., assignor to Gillis & Geoghegan, New York, N. Y. Portable hoisting apparatus. No. 1,429,216; Sept. 19.
- Asaturian, Setrak, New York, N. Y. Spinning top. No. 1,401,952; Jan. 3.
- Asaturian, Setrak, New York, N. Y. Animal feed receptacle. No. 1,421,142; June 27.
- Asbestos Shingle Slate & Sheathing Company. (See Anderson, Robert H., assignor.)
- Asbestos, Shingle, Slate & Sheathing Company. (See Mattison, Richard V., assignor.)
- Asbjeld, Feder A., Beresford, S. D. Drigible automobile headlamp. No. 1,406,955; Feb. 14.
- Asbury, Dorsey F. (See Smith, G. L., and Asbury.)
- Asbury, Dorsey F., Washington, D. C. Breech mechanism. No. 1,414,975; May 2.
- Asbury, Dorsey F., Washington, D. C. Breech mechanism. No. 1,415,856; May 16.
- Asbury, Dorsey F., Washington, D. C. Breech mechanism. No. 1,415,912; May 16.
- Asbury, Dorsey F., Washington, D. C. Fuse. No. 1,428,203; Sept. 5.
- Asbury, Dorsey F., assignor to United States Ordnance Company, Washington, D. C. Breech closure. No. 1,410,524; Mar. 21.
- Asbury, Dorsey F., assignor to United States Ordnance Company, Washington, D. C. Breech closure. No. 1,410,525; Mar. 21.
- Asbury, William, assignor to Straight Line Regulator Corporation, New York, N. Y. Closure operator. No. 1,406,142; Feb. 7.
- Asbury, William, assignor to Straight Line Regulator Corporation, New York, N. Y. Closure operator. No. 1,407,828; Feb. 28.
- Asch, Samuel R., Baltimore, Md. Necktie. No. 1,440,125; Dec. 26.
- Aschauer, Charles J., Decatur, Ill. Building construction. No. 1,421,143; June 27.
- Aschburner, Ernest F., et al. (See Aschburner, Fredrick C., assignor.)
- Aschburner, Fredrick C., Chicago, Ill., assignor of one-third to W. H. Aschburner and one-third to E. F. Aschburner. Balancing cover support. No. 1,424,550; Aug. 1.
- Aschburner, William H., et al. (See Aschburner, Fredrick C., assignor.)
- Aschenbach, Emerson L., Sellersville, Pa., assignor to United States Gauge Company, New York, N. Y. Gauge. No. 1,414,165; Apr. 25.
- Aschim, Oscar. (See Behie, John W., assignor.)
- Aschinger, Harry W., Indianapolis, Ind. Spark plug. No. 1,419,197; June 13.
- Aselin, Alfred J., Bay City, Mich. Marking hammer. No. 1,425,357; Aug. 8.
- Aseltine, Fred E., assignor to Cadillac Motor Car Company, Detroit, Mich. Carburetor. No. 1,422,329; July 11.
- Aseptic Service Company. (See Rees, Warren C., assignor.)
- "Aslag" Aktiengesellschaft. (See Gebhard, Conrad, assignor.)

Alphabetical list of patentees—Continued.

- Ash, Allen H., Lisbon, N. H. Dumping attachment for vehicles. No. 1,435,369; Nov. 14.
- Ash, Charles S., Geneva, N. Y. Quick-detachable vehicle wheel. No. 1,414,005; Apr. 25.
- Ash, Charles S., Hagerstown, Md. Quick-detachable vehicle wheel. No. 1,429,394; Sept. 19.
- Ash, Elvin, Berkley, Va. Boiler. No. 1,408,717; Mar. 7.
- Ash, Royal L. (See Pfund, H. C., and Ash.)
- Ash, Vincent B., and A. E. Allison, Coatesville, Pa. Method of and apparatus for forming metal. No. 1,439,352; Dec. 19.
- Ashbee, Claude N. (See Eldridge, J. E., Burgess, W. B. and C. E., and Ashbee.)
- Ashby, Allen B., Bonners Ferry, Idaho. Envelope protector. No. 1,434,765; Nov. 7.
- Ashby, Brodie H., Dallas, Tex. Traction band. No. 1,419,533; June 13.
- Ashby, Shirley C., Jr. (See Bartos, Frank, assignor.)
- Ashcroft, William S., Weatherford, Tex. License tag. No. 1,411,559; Apr. 4.
- Ashe, Frank C., assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Headlight lens. No. 1,432,047; Oct. 17.
- Ashenhurst, Harold S., assignor to H. A. Parkyn, Chicago, Ill. Insulating substance. No. 1,402,133; Jan. 3.
- Asher, Ralph H., London, Ohio. Air regulator. No. 1,440,050; Dec. 26.
- Ashinger, Herman H., assignor to George Cutter Company, South Bend, Ind. Lamp-socket connection. No. 1,402,999; Jan. 10.
- Ashland Machine & Paper Company. (See Martin, John A., assignor.)
- Ashley, Clifford W., Wilmington, Del. Sennit. No. 1,433,868; Oct. 31.
- Ashley, Eustace E. et al. (See Trane, Raymond, assignor.)
- Ashley, Frank M. (See Trust, H., and Ashley.)
- Ashley, Frank M., New York, N. Y. Fountain pen. No. 1,419,439; June 13.
- Ashley, Frank M., New York, N. Y. Making plates for musical instruments. No. 1,419,440; June 13.
- Ashley, Frank M., New York, N. Y. Binding clip. No. 1,429,182; Sept. 12.
- Ashley, Raymond T., Reno, Nev. Link. No. 1,433,977; Dec. 19.
- Ashlin, William G. (See Pratt, Alfred M. C., assignor.)
- Ashlock, Henry H., San Diego, Calif. Railway tie. No. 1,438,625; Dec. 12.
- Ashmussen, Christian, Albany, N. Y. Chain tongs. No. 1,408,968; Mar. 7.
- Ashtabula Bow Socket Company, The. (See Allen, Charles R., assignor.)
- Ashtabula Bow Socket Company, The. (See Lewis, Fred K., assignor.)
- Ashton, George M., Niobrara County, Wyo. Pumping jack. No. 1,435,444; Nov. 14.
- Ashton, Hannah, executrix. (See Ashton, Orrell.)
- Ashton, Orrell, deceased, Swampscott, Mass., by H. Ashton, executrix, Wollaston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work support. No. 1,435,194; Nov. 14.
- Ashton Valve Company, The. (See Cutler, Arthur E., assignor.)
- Ashwell, Fred J., Kansas City, Mo., assignor of one-half to F. L. Langdon, Kansas City, Kans. Grain weigher. No. 1,409,642; Mar. 14.
- Ashworth, George T., Philadelphia, Pa. Refrigerator. No. 1,410,543; Mar. 28.
- Ashworth, Thomas, Millersburg, Ohio. Bench and floor clamp. No. 1,421,370; July 4.
- Askren, Earl J., J. F. Worman, and C. F. Zwick, Indianapolis, Ind. Shield for motor radiators. No. 1,421,120; June 27.
- Aslanian, Onig, Providence, R. I. Lens. No. 1,434,276; Oct. 31.
- Aspden, Ralph L. (See Bowman, F. H., and Aspden.)
- Aspden, Richard E. (See Bowman, F. H., and Aspden, assignors.)
- Aspelin, Julius O., Standia Township, Murray County, Minn. Fishhook. No. 1,417,482; May 30.
- Aspinall, Daniel, Vancouver, British Columbia, Canada. Oil salvaging means. No. 1,414,611; May 2.
- Aspinwall-Drew Company. (See Aspinwall, Lewis A., assignor.)
- Aspinwall, Lewis A., Jackson, Mich. Nonswarming beehive. No. 1,410,444; Mar. 21.
- Aspinwall, Lewis A., Jackson, Mich., assignor to Aspinwall Mfg. Co. Conveyor. No. 1,408,969; Mar. 7.
- Aspinwall, Lewis A., assignor to Aspinwall-Drew Company, Jackson, Mich. Potato planter. No. 1,411,897; Apr. 4.
- Aspinwall Mfg. Co. (See Aspinwall, Lewis A., assignor.)
- Aspinwall, Robert S., Detroit, Mich. Combined socket-cover and lamp-ring light fixture. No. 1,412,644; Apr. 11.
- Asplund, Charles F., Minneapolis, Minn. Centrifugal clutch. No. 1,418,350; June 6.
- Asplund, Erik A., Waukegan, Ill. Remover for fruit-jar caps and the like. No. 1,402,731; Jan. 10.
- Asprooth, Axel H., assignor to Cotta Transmission Company, Rockford, Ill. Control set for change-speed transmission. No. 1,416,672; May 23.
- Asprooth, Axel H., assignor to Cotta Transmission Company, Rockford, Ill. Change-speed gearing. No. 1,430,526; Oct. 3.
- Assereto, Andrea, and L. Caccioppoli, Savona, Italy. Plant for utilizing pulverized solid fuels. No. 1,420,904; June 27.
- Assmann, Frank A., jr., Chicago, Ill., assignor to Continental Can Company, Inc., Syracuse, N. Y. Cutting disks or blanks from untrimmed commercial sheets. No. 1,439,393; Dec. 19.
- Associated Engineers Company. (See Donahoe, Alfred H., assignor.)
- Associated Engineers Company. (See Tillson, Edwin D., assignor.)
- Associated Equipment Company Limited, The. (See Thomas, Hugh K., assignor.)
- Associated Holdings Corporation. (See Grote, Walther H., assignor.)
- Associated Newspaper Limited. (See Hawkins, Alfred G., assignor.)
- Astbury, Thomas, assignor to J. Dexter, New Bedford, Mass. Condenser-apron lubricator. No. 1,416,313; May 16.
- Aste, Anthony L., Brooklyn, N. Y. Shoe-polishing stand. No. 1,435,271; Nov. 14.
- Aston, Albert A. (See Ricks, F., and Aston.)
- Aston, James, assignor to A. M. Byers Company, Pittsburgh, Pa. Making wrought iron. No. 1,412,823; Apr. 18.
- Aston, James, assignor to A. M. Byers Company, Pittsburgh, Pa. Making wrought iron. No. 1,413,513; Apr. 18.
- Astridge, Henry R., Toronto, Ontario, Canada. Disappearing propeller device. No. 1,434,581; Nov. 7.
- Astridge, Henry R., Toronto, Ontario, Canada. Traffic signal. No. 1,439,598; Dec. 19.
- Astrom, Carl P., East Orange, N. J., assignor to M. H. Treadwell Company, New York, N. Y. Heat exchanger. No. 1,439,283; Dec. 19.
- Astrom, John I., assignor to Fort Wayne Engineering and Manufacturing Company, Fort Wayne, Ind. Water-pumping system. No. 1,412,596; Apr. 11.
- Astronomical Clock Manufacturing Company. (See Bulka, Michael, assignor.)
- Astrup, Andrew. (See Pedersen, John F., assignor.)
- Attack, Frederick W. (See Haworth, W. N., and Attack.)
- Attack, Frederick W., assignor to The British Alizarine Company Limited, Manchester, Lancaster, England. Manufacture of compounds of the anthraquinone series. No. 1,434,980; Nov. 7.
- Attack, Frederick W., Manchester, England, and J. Anderson, St. Andrews, Scotland, assignors to The British Alizarine Company, Limited, Manchester, Lancaster, England. Fusion of organic substances with alkalies. No. 1,430,277; Sept. 26.
- Atcheson, Robert H., assignor to H. J. Doughty, Providence, R. I. Tire-casing-vulcanizing mold. No. 1,406,433; Feb. 14.
- Aten, Edgar S., Lexington, Ohio. Roller. No. 1,411,828; Apr. 4.
- Athanassiou, Nicholas, Tarpon Springs, Fla. Shock absorber. No. 1,413,373; Apr. 18.
- Atherton, Albert, New Brunswick, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Call-box transmitter. No. 1,416,594; May 16.
- Atherton, Alfred L., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Temperature-regulating means for filamentary electrodes. No. 1,406,328; Feb. 14.
- Atherton, Alfred L., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Film cut-out. No. 1,433,693; Oct. 31.
- Atherton, Alfred L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulating transformer. No. 1,435,195; Nov. 14.
- Atherton, Cecil, Danville, Ill. Locomotive driving box. No. 1,413,822; Apr. 25.
- Atherton, Fred K., and C. F. Webb; said Webb assignor of his entire right to C. P. Petersen, Racine, Wis. Burglar alarm. No. 1,421,144; June 27.
- Athey, Charles, Paris, Ill. Heating stove. No. 1,438,886; Dec. 12.
- Athey, Isaac H., assignor to Athey Tractor Co., Chicago, Ill. Traction mechanism. No. 1,435,788; Nov. 14.
- Athey Tractor Co. (See Athey, Isaac H., assignor.)
- Athimon, Francis, Paris, France. Machine for making split cotter pins, spring washers, thimbles, and like annular members. No. 1,408,063; Feb. 28.
- Athol Machine Company. (See Starrett, Laroy S., assignor.)
- Athons, Fred M., Los Angeles, Calif. Direction indicator for motor vehicles. No. 1,422,330; July 11.
- Atkins, Charles H., Palmer, Mass. Pressure pump. No. 1,416,314; May 16.
- Atkins, Charles H., Palmer, Mass. Steam trap. No. 1,422,069; July 11.
- Atkins, E. C., and Company. (See Morris, Thomas C., assignor.)
- Atkinson, Charles C., Miami, Fla. Autotruck loader. No. 1,411,829; Apr. 4.
- Atkinson, Charles C., Miami, Fla. Loading device for trucks. No. 1,411,830; Apr. 4.
- Atkinson, Edward M., Portland, Ore. Reenforcing thin metal. No. 1,407,366; Feb. 21.
- Atkinson, Frederick T., Cincinnati, Ohio. Staining wood. No. 1,403,536; Jan. 17.

Alphabetical list of patentees—Continued.

- Atkinson, George C., Georgetown, Tex. Spring wheel. No. 1,406,961; Feb. 21.
- Atkinson, Henry T., assignor, by mesne assignments, to Universal Window Company, Oakland, Calif. Swinging window. No. 1,431,619; Oct. 10.
- Atkinson, Jesse. (See Thompson, Abel, assignor.)
- Atkinson, Joseph M., assignor to Oppenheim, Oberndorf & Co., Inc., Baltimore, Md. Combination garment. No. 1,405,962; Feb. 7.
- Atkinson, Joseph M., assignor to Oppenheim, Oberndorf & Co., Inc., Baltimore, Md. Union garment. No. 1,405,963; Feb. 7.
- Atkinson, Joseph M., assignor to Oppenheim, Oberndorf & Co., Inc., Baltimore, Md. Union garment. No. 1,410,870; Mar. 28.
- Atkinson, Ralph W. (See Fisher, H. W., and Atkinson.)
- Atkinson, Thomas M., assignor of one-third to O. W. Clark, Pine Bluff, Ark. Dimmer and sign attachment for lamps. No. 1,435,952; Nov. 21.
- Atkinson, William, Boxford, assignor to The Vacuum Company, Somerville, Mass. Method of drying goods. No. 1,415,623; May 9.
- Atkocaitis, Juczas, Chicago, Ill. Automobile horn. No. 1,433,593; Oct. 31.
- Atlantic Dyestuff Company. (See Heuser, Ralph V., assignor.)
- Atlantic Hand Brake Corporation. (See Sauvage, William H., assignor.)
- Atlantic Refining Company, The. (See Delbridge, Thomas G., assignor.)
- Atlantic Refining Company, The. (See Johansen, Ernst M., assignor.)
- Atlantic Refining Company, The. (See Kennedy, Charles F., assignor.)
- Atlantic Refining Company, The. (See Lewis, Joseph W., assignor.)
- Atlantic Tubing Company. (See Burke, Peter J., assignor.)
- Atlas Devices Company. (See Leavitt, F. S., and Staples, assignors.)
- Atlas Engineering & Machine Company, Limited, The. (See Angus, Harry H., assignor.)
- Atlas Implement and Tool Company. (See Ricks, Hyrum, Jr., assignor.)
- Atlas Powder Company. (See Cook, R. M., and Grotta, assignors.)
- Atlas Powder Company. (See Grotta, Bennett, assignor.)
- Atlas Powder Company. (See Jessen, Charles C., assignor.)
- Atlas Powder Company. (See Long, Ralph A., assignor.)
- Atlas Powder Company. (See Mitscherling, Waldemar O., assignor.)
- Atlas Truck Corporation. (See Kraft, Edward L., assignor.)
- Atmospheric Nitrogen Corporation. (See de Jahn, Fredrik W., assignor.)
- Atomized Products Corporation. (See Faber, H. B., and Harding, assignors.)
- Aton, William E., Milburn, assignor to Milburn Implement Manufacturing Co., Arlington, Ky. Agricultural implement. No. 1,419,602; June 13.
- Attaway, Sidney C., Thomasville, Ga. Disk plow. No. 1,421,871; July 4.
- Attenborough, Leonard G., Ipoh, Perak, Federated Malay States, and J. F. Newsom, Palo Alto, Calif. Lip for dredge buckets. No. 1,430,782; Oct. 3.
- Atwood, Charles F., Grand Rapids, Mich. Antirattler for automobile windows. No. 1,438,209; Dec. 12.
- Atwater, John M., Chicago, Ill. Spark plug. No. 1,406,810; Feb. 14.
- Atwater Kent Manufacturing Company. (See Kent, Arthur A., assignor.)
- Atwater Kent Manufacturing Company. (See Richter, William H., assignor.)
- Atwater, Silas I., New York, N. Y. Changeable-character reversible sign. No. 1,432,519; Oct. 17.
- Atwater, William B., Charleston, S. C., assignor to Crystal-on Chemical Company. Preparation for preventing accumulation of moisture on transparent surfaces. No. 1,429,824; Sept. 19.
- Atwood, Edwin W. (See Copeman, Lloyd G., assignor.)
- Atwood, George F., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Submarine signaling. No. 1,432,945; Oct. 24.
- Atwood, Guilford C., Austin, Colo. Brooder and heater. No. 1,411,075; Mar. 28.
- Atwood, Harry A., Milwaukee, Wis. Chair. No. 1,433,694; Oct. 31.
- Atwood, Harry C., Ardmore, Okla. Nut-cracking machine. No. 1,412,443; Apr. 11.
- Atwood, Harry N., Smithfield, N. C., assignor to Rubwood, Inc., Lawrence, Mass. Vehicle wheel structure and producing same. No. 1,437,482; Dec. 5.
- Atwood, Harry N., and G. B. Bains, 3d, Reading, Pa. Composite laminated structure and producing same. No. 1,403,142; Jan. 10.
- Atwood, Harry N., and G. B. Bains, 3d, Reading, Pa. Producing composite laminated structures. No. 1,403,143; Jan. 10.
- Atwood, Harry N., and G. B. Bains, 3d, Reading, Pa. Laminated composite wheel. No. 1,422,313; July 18.
- Atwood, Leonard, Boston, Mass. Internal-combustion engine. No. 1,418,351; June 6.
- Atwood, Leonard, Boston, Mass. Internal-combustion engine. No. 1,438,887; Dec. 12.
- Atwood, Leonard, Boston, Mass., assignor to A. H. Gillard, Englewood, N. J. Device for charging internal-combustion engines. No. 1,417,483; May 30.
- Atwood Machine Company, The. (See Bradley, Edward E., assignor.)
- Atwood, Seth B., Rockford, Ill. Door buffer. No. 1,403,665; Jan. 17.
- Auerlin, William, Northfield, Ohio. Artificial bait. No. 1,415,913; May 16.
- Auberscheck, Joseph, Milwaukee, Wis. Water filter. No. 1,402,706; Jan. 3.
- Aubry, Eugene. (See Courant, E., and Aubry.)
- Au Buchon, John S., Farmington, Mo. Tire-protecting shoe. No. 1,406,962; Feb. 21.
- Auclair, Walter N., Echo, Oreg. Blow-out boot for tires. No. 1,403,000; Jan. 10.
- Audet, Adjutor N., Williamsport, Pa. Tire and rim carrier. No. 1,412,645; Apr. 11.
- Audi, Lucie T., New York, N. Y. Sanitary fixture. No. 1,405,476; Feb. 7.
- Audible Pictures Corporation. (See Madaler, Ferdinand V., assignor.)
- Audiffren Refrigerating Machine Co. (See Karr, A. D., and Perkins, assignors.)
- Audiffren Refrigerating Machine Co. (See Perkins, K. D., and Karr, assignors.)
- Auerbach, Zemach, New York, N. Y. Appointment rack or card. No. 1,414,720; May 2.
- Auerbach, Zemach, New York, N. Y. Appointment file or rack. No. 1,414,721; May 2.
- Auermiller, John, Chicago, Ill. Window awning. No. 1,418,860; June 6.
- Aufferheide, Benjamin F., sr., Davenport, Iowa. Sash weight. No. 1,425,570; Aug. 15.
- Aufiero, Emanuel, Brooklyn, N. Y. Warning signal. No. 1,429,217; Sept. 19.
- Aufiero, Emanuel, assignor to E. A. Laboratories, Inc., Brooklyn, N. Y. Signal for motor vehicles. No. 1,414,612; May 2.
- Aufiero, Emanuel, assignor to E. A. Laboratories, Inc., Brooklyn, N. Y. Signal for motor vehicles. No. 1,414,613; May 2.
- Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,411,898; Apr. 4.
- Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Automobile tire lock. No. 1,412,646; Apr. 11.
- Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,422,515; July 11.
- Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,422,516; July 11.
- Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,422,517; July 11.
- Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,422,518; July 11.
- Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,422,519; July 11.
- Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,422,520; July 11.
- Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. No. 1,426,702; Aug. 22.
- Augenstein, Cecil V., Macksburg, Ohio. Wire-line socket. No. 1,429,312; Sept. 19.
- Auger, Ovide. (See Herson, Armand, assignor.)
- August, Johannes R. C., Halifax, England. Muffle furnace. No. 1,414,614; May 2.
- August, Johannes R. C., Halifax, England. Muffle furnace. No. 1,415,424; May 9.
- August, Johannes R. C., Halifax, England. Furnace for hardening or tempering steel tools or for heating or annealing metals, glass, pottery, or the like. No. 1,432,946; Oct. 24.
- August Knoche-Wallwitz, G. m. b. H. (See Plaut, Menko, assignor.)
- August Riedinger, Ballonfabrik Augsburg Aktiengesellschaft. (See Meyer, Hermann, assignor.)
- August Rust-Oppenheim. (See Olsson, Zacharias, assignor.)
- Augustin-Normand, Augustin, assignor to Chantiers et Ateliers Augustin-Normand, Le Havre, France. Pneumatic evacuating device for compressors. No. 1,402,707; Jan. 3.
- Augustin, Wilhelm, Berlin-Charlottenburg, assignor to Bing-Werke vormals Gebr. Bing Aktiengesellschaft, Nurnberg, Germany. Locking device for calculating machines. No. 1,428,831; Sept. 12.
- Augustine, Addison E., Hackensack, N. J., assignor to Chester Machine Co., Inc., New York, N. Y. Trap mechanism for envelope-making machines. No. 1,403,374; Jan. 10.
- Augustine, Addison E., Hackensack, N. J., assignor to Chester Machine Co., Inc., New York, N. Y. Balanced cam shaft. No. 1,404,183; Jan. 24.

- Augustine, Addison E., Hackensack, N. J., assignor to Chester Machine Co. Inc., New York, N. Y. Gripper mechanism for envelope-making machines. No. 1,421,889; July 4.
- Augustine, Addison E., Hackensack, N. J., assignor to Chester Machine Co. Inc., New York, N. Y. Drying blower for envelope-making machines. No. 1,423,297; July 18.
- Augustine, Addison E., Hackensack, N. J., assignor to Chester Machine Co. Inc., New York, N. Y. Delivery mechanism for envelope-making machines. No. 1,427,083; Aug. 29.
- Augustine, Addison E., Hackensack, N. J., assignor to Chester Machine Co. Inc., New York, N. Y. Elevator control mechanism for envelope-making machines. No. 1,432,824; Oct. 24.
- Augustine, Benjamin F., Buffalo, N. Y. Rotary engine. No. 1,414,976; May 2.
- Aukerman, Nathaniel B., Lakewood, Ohio. Process of and means for recovering silver from photographic and other baths. No. 1,425,935; Aug. 15.
- Auld, John, Chicago, Ill. Fountain brush. No. 1,413,311; Apr. 18.
- Ault, William H., New Castle, Pa. Long-span slab. No. 1,431,086; Oct. 3.
- Aupperle, James A. (See Beck, W. J., and Aupperle.)
- Aurand, James L., Detroit, Mich. Automobile hood lock. No. 1,434,277; Oct. 31.
- Ausen, Emil, Eleva, Wis. Milk-can cover. No. 1,409,902; Mar. 21.
- Ausherman, Martin V. (See Hall, John W., assignor.)
- Aust, Paul P., assignor of one-half to F. S. Heun, Cleveland, Ohio. Spring-propelled vehicle. No. 1,440,126; Dec. 26.
- Austin, Adelbert, Greenwood, N. Y. Resilient vehicle wheel. No. 1,427,570; Aug. 29.
- Austin, Albert L., Cleveland, Ohio, assignor to V. Grande and A. J. Ferris, New York, N. Y. Motor-vehicle signal. No. 1,426,448; Aug. 22.
- Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Producing a repair in fabrics. No. 1,424,332; Aug. 1.
- Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Joint for articles of ceramic and similar materials and producing same. No. 1,431,137; Oct. 3.
- Austin, Bascom O., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,427,342; Aug. 29.
- Austin, Bascom O., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,430,528; Oct. 3.
- Austin, Basil G., assignor to Austin Organ Company, Hartford, Conn. Electropneumatic organ action. No. 1,427,997; Sept. 5.
- Austin, Edgar E., Portland, Me. Currency series. No. 1,418,611; June 6.
- Austin, Enoch W., Shawnee, Okla. Link-forming machine. No. 1,431,452; Oct. 10.
- Austin, Estella B., Los Angeles, Calif. Artificial flower and making it. No. 1,415,764; May 9.
- Austin, F. C., Machinery Company. (See French, James C., assignor.)
- Austin, F. C., Machinery Company. (See Olsen, Halften E., assignor.)
- Austin, F. C., Machinery Company. (See Sorensen, Magnus, assignor.)
- Austin, Frances E. (See Farrar, A. J., and Putney, assignors.)
- Austin, Frederick C. (See Anderson, Vincent G., assignor.)
- Austin, Frederick C. (See Bager, Frederic E., assignor.)
- Austin, Frederick C. (See Benton, Hans J., assignor.)
- Austin, Frederick C. (See French, James C., assignor.)
- Austin, Frederick C. (See Rosendahl, Nils M., assignor.)
- Austin, Frederick C. (See Stahl, Charles E., assignor.)
- Austin, Frederick C., Chicago, Ill. Tractor. No. 1,402,134; Jan. 3.
- Austin, Harold E. (See Cook, J. C., and Austin.)
- Austin, Henry K., Reading, Mass. Soldering-tool. No. 1,427,770; Sept. 5.
- Austin, Herbert A., Chicago, Ill. Hose supporter. No. 1,409,355; Mar. 14.
- Austin, Howard, assignor of one-half to W. L. Symons, Washington, D. C. Flexible wrench. No. 1,431,208; Oct. 10.
- Austin, James B., Dolgeville, N. Y. Paper-cutting device. No. 1,434,475; Nov. 7.
- Austin, James D., and T. Roberts, Harrisburg, Ill. Sign carrier. No. 1,422,911; July 18.
- Austin, John T., assignor to The Austin Organ Company, Hartford, Conn. Resonator for reed pipes. No. 1,419,486; June 13.
- Austin Manufacturing Co. (See Liddell, Moses V., assignor.)
- Austin Manufacturing Company. (See Wilson, Frederick D., assignor.)
- Austin, Marcus E., and E. B. Hoffman, Detroit, Mich., assignors of one-half to J. S. Hoffman, Monroe, Mich. Tractor wheel. No. 1,405,252; Jan. 31.
- Austin Organ Company. (See Austin, Basil G., assignor.)
- Austin Organ Company, The. (See Austin, John T., assignor.)
- Austin, Walter J. (See Willows, E. T., and Austin.)
- Austin, Walter M., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Tripping device. No. 1,403,243; Feb. 28.
- Ausubel, Herman, New York, N. Y. Holder for tooth-cleaning articles. No. 1,424,434; Aug. 1.
- Auto Accessories Mfg. Co. (See Leitch, John H., assignor.)
- Auto Lift and Carrier Company. (See McCarthy, Thomas J., assignor.)
- Auto-Ordinance Corporation. (See Eickhoff, Theodore H., assignor.)
- Auto-Ordinance Corporation. (See Payne, Oscar V., assignor.)
- Auto-Ordinance Corporation. (See Thompson, John T., assignor.)
- Auto Pneumatic Action Company, The. (See Danquard, Thomas, assignor.)
- Auto Safety Device Company. (See Mehlen, Otto F., assignor.)
- Auto Sales and Service Company. (See Penrod, William F., assignor.)
- Auto Specialties Manufacturing Co. (See Bair, Clarence L., assignor.)
- Auto Utilities Manufacturing Company. (See Breidert, George C., assignor.)
- Auto Water Heater Corporation. (See Hawley, William H., assignor.)
- Automatic Arc Welding Company. (See Morton, Harry D., assignor.) (Reissue.)
- Automatic Burner Corporation. (See Schroeder, Oscar C., assignor.)
- Automatic Electric Brake Company. (See Farmer, R. Z., and Marsh, assignors.)
- Automatic Electric Brake Company. (See Farmer, Robert Z., assignor.)
- Automatic Electric Company. (See Blessing, John G., assignor.)
- Automatic Electric Company. (See Brown, Henry B., assignor.)
- Automatic Electric Company. (See Erickson, John, assignor.)
- Automatic Electric Company. (See Groh, Bernard C., assignor.)
- Automatic Electric Company. (See Jacobsen, Emil, assignor.)
- Automatic Electric Company. (See Keith, Alexander E., assignor.)
- Automatic Electric Company. (See Malmberg, Anders M., assignor.) (Reissue.)
- Automatic Electric Company. (See Martin, Talbot G., assignor.)
- Automatic Electric Company. (See Owen, William W., assignor.)
- Automatic Electric Company. (See Richardson, Rodney G., assignor.)
- Automatic Electric Company. (See Setter, Michael, assignor.)
- Automatic Electric Company. (See Smith, Arthur B., assignor.)
- Automatic Electric Company. (See Wicks, John, assignor.)
- Automatic Electric Heater Company. (See Clark, Warren F., assignor.)
- Automatic Electric Washer Co. (See Nelson, J., and Seeds, assignors.)
- Automatic Machinery Company, The. (See Purcell, Benjamin H., assignor.)
- Automatic Machinery & Equipment Company. (See Bird, Peter E., assignor.)
- Automatic Machinery and Equipment Company. (See Lloyd, John T., assignor.)
- Automatic Mail Exchange Co. (See Millsaps, Daniel W., assignor.)
- Automatic Non-Rewinding Reel Company. (See Gottschau, Christian M., assignor.)
- Automatic Packing & Labeling Company. (See Gwinn, G. W., and Leary, assignors.)
- Automatic Packing & Labeling Company. (See Gwinn, George W., assignor.)
- Automatic Packing & Labeling Company. (See Leary, James W., assignor.)
- Automatic Products Company. (See Whitman, Charles F., assignor.)
- Automatic Recording Safe Company, The. (See Fisher, Charles, assignor.)
- Automatic Refrigerating Company. (See Marshall, Albert T., assignor.)
- Automatic Safety Tire Valve Corporation. (See Heath, Harry E., assignor.)
- Automatic Seating Company. (See Erickson, John E., assignor.)
- Automatic Signal & Sign Company. (See Myers, Parke G., assignor.)
- Automatic Sliding Trolley Company. (See Moore, Giles S., and O., assignors.)
- Automatic Sprinkler Company of America. (See Brumbaugh, John H., assignor.)
- Automatic Sprinkler Company of America. (See Lowe, Ernest A., assignor.)
- Automatic Straight Air Brake Company. (See Neal, Spencer G., assignor.)
- Automatic Takeup Nut Company. (See Gumber, J., and Fearheiley, assignors.)
- Automatic Ticket Register Corporation. (See Helsel, Reuben H., assignor.)

Alphabetical list of patentees—Continued.

- Automatic Truck Brake Company. (See Paschke, Otto H., assignor.)
- Automatic Wrapping Machine Co. (See Scholin, Axel, assignor.)
- Automatic Wrapping Machine Co. (See Scholin, Axel R., assignor.)
- Automobile Appliances Co. (See Stockum, H. J., and Van Sciver, assignors.)
- Automotive Gas Producer Corporation. (See Smith, David J., assignor.)
- Automotive Gas Producer Corporation. (See Tulloch, Thomas G., assignor.)
- Automotive Parts Company. (See Schwitzer, Louis, assignor.)
- Automotive Radiator Machine Company. (See Schulz, Clyde E., assignor.)
- Autoplane Company of America. (See McWorter, John E., assignor.)
- Autopoint Pencil Company. (See Hasselquist, Hugo S., assignor.)
- Autopoint Pencil Company. (See Keeran, C. R., and Taylor, assignors.)
- Autosales Corporation. (See Grover, Albert D., assignor.)
- Auvil, Daniel M., Elbe, Wash. Speed-changing mechanism. No. 1,404,081; Jan. 17.
- Available Truck Company, The. (See Rath, Joseph J., assignor.)
- Avan, Charles E., Los Angeles, assignor to J. C. Martin, jr., San Francisco, Calif. Laying brick. No. 1,438,679; Dec. 12.
- Avander, Fritz A., and N. A. H. Nilsson and C. G. Ekman, assignors to Aktiebolaget C. E. Johansson, Eskilstuna, Sweden. Gauge for measuring internal dimensions. No. 1,439,989; Dec. 26.
- Avellar, Joseph A. (See Pattberg, George A., assignor.)
- Avera, Arch U., Florence, Ala. Furnace for oxidation of atmospheric nitrogen. No. 1,429,013; Sept. 12.
- Averill, Earl A., Mount Vernon, N. Y., assignor to Locomotive Feed Water Heater Company, Wilmington, Del. Locomotive feed-water heaters. No. 1,412,597; Apr. 11.
- Averill, Earl A., Mount Vernon, N. Y., assignor to Locomotive Feed Water Heater Company. Means for protecting pressure gauges on fluctuating-pressure water lines. No. 1,424,145; Aug. 1.
- Averill, Earl A., Mount Vernon, N. Y., assignor to Locomotive Feed Water Heater Company. Locomotive feed-water-heater system. No. 1,429,553; Sept. 19.
- Averill, Elias M., Sparta, Mich. Collapsible box. No. 1,422,912; July 18.
- Averill, Rex G., assignor to The Ohio Brass Company, Mansfield, Ohio. Anticoupling mechanism. No. 1,433,924; Oct. 31.
- Averill, William H., assignor to Bell Clip Manufacturing Co., Boston, Mass. Display holder for price cards, etc. No. 1,438,009; Dec. 5.
- Averitt, Robert W., Fort Worth, Tex. Water heater. No. 1,422,521; July 11.
- Avers, Otis H., Cattaraugus, N. Y. Float gauge. No. 1,414,927; May 2.
- Avery, Allen, Crawfordville, Ark. Tag holder. No. 1,438,807; Dec. 12.
- Avery, Arthur D., Los Angeles, Calif. Holder. No. 1,403,464; Jan. 10.
- Avery, B. F., and Sons. (See Ray, Charles T., assignor.)
- Avery, Charles E., Trenton, assignor to Manhattan Electrical Supply Company, Inc., Jersey City, N. J. Electromagnet. No. 1,413,374; Apr. 18.
- Avery, Clyde H., Boston, Mass. Sounding wheeled toy. No. 1,432,520; Oct. 17.
- Avery, David, assignor to Amalgamated Zinc (De Bavay's) Limited, Melbourne, Victoria, Australia. Recovery of lead and silver from sulphide ores and metallurgical products. No. 1,402,732; Jan. 10.
- Avery, David, Melbourne, Victoria, and R. H. Stevens, Hobart, Tasmania, Australia, assignor to Electrolytic Zinc Company, Australasia Proprietary Limited, Melbourne, Australia. Recovery of zinc by electrolysis. No. 1,403,065; Jan. 10.
- Avery, David, Melbourne, Victoria, R. H. Stevens, and R. T. D. Williams, Risdon, Hobart, Tasmania, assignors to Electrolytic Zinc Company of Australia, Proprietary Limited, Melbourne, Victoria, Australia. Electrolytic treatment of ores containing zinc, cadmium, and copper. No. 1,426,703; Aug. 22.
- Avery Ezra S., and O. O. Fusch, San Jose, Calif. Electric flatiron. No. 1,433,061; Oct. 24.
- Avery, Frederick, New York, N. Y., assignor to American Telephone and Telegraph Company. Message-register system. No. 1,409,913; Mar. 21.
- Avery, Irving F. (See Press, J. H., and Avery.)
- Avery, Thomas J., Albia, Iowa. Combination scraper, charger, and tamper. No. 1,421,358; July 4.
- Avery, True M., assignor to Arrow Grip Manufacturing Co., Inc., Glens Falls, N. Y. Nonskid device. No. 1,409,643; Mar. 14.
- Avery, True M., assignor to Arrow Grip Manufacturing Co., Inc., Glens Falls, N. Y. Roller-base lifting jack. No. 1,415,857; Mar. 16.
- Avery, W. & T., Limited. (See Gilbert, Arthur S., assignor.)
- Avery, W. & T., Limited. (See Howell, J., and Brown, assignors.)
- Avery, W. H. (See Schanman, Karl O., assignor.) (Re-issue.)
- Avery, William, Foxboro, Mass. Taper attachment for lathes. No. 1,427,510; Aug. 29.
- Aves, Frank W., Chicago, Ill. Lingerie clasp. No. 1,412,813; Apr. 11.
- Avey Drilling Machine Company, The. (See Mirrielees, James F., assignor.)
- Avolio, Vincenzo, and F. Lattanzi, Portland, Oreg. Sanding machine. No. 1,417,293; May 23.
- Avram, M. H., and Co. (See Kemp, Robert, assignor.)
- Avril, Joseph, assignor of one-half to L. C. Alexander, Los Angeles, Calif. Box couch. No. 1,417,442; May 23.
- Ax, Erick L., North Braddock, Pa. Safety pliers. No. 1,434,646; Nov. 7.
- Axe, Roy T., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Window construction. No. 1,407,314; Feb. 21.
- Axelman, Mayer, Chicago, Ill. Traveling bag. No. 1,403,476; Jan. 17.
- Axelsson, Johan A., Eskilstuna, Sweden. Chuck. No. 1,426,704; Aug. 22.
- Axelton, Andrew, Graettinger, Iowa. Agricultural implement. No. 1,418,123; May 30.
- Axen, John L., Oak Park, Ill., assignor to National Gauge & Equipment Company, La Crosse, Wis. Assembling electrical measuring instruments. No. 1,419,099; June 6.
- Axle Lock Corporation. (See Siegel, Ernest, assignor.)
- Axtell, Clinton J., Schenectady, N. Y., assignor to General Electric Company. Electrical system of power transmission and regenerative braking. No. 1,413,091; Apr. 18.
- Ayala, John M., Honolulu, Hawaii. Bread-slicing machine. No. 1,418,511; June 6.
- Ayala, José A., Caracas, Venezuela. Automobile headlight. No. 1,427,085; Aug. 29.
- Ayer, Frederic E., Akron, Ohio. Ash receiver. No. 1,408,970; Mar. 7.
- Ayers, Guy, Libertyville, Ill. Wrench. No. 1,428,466; Sept. 5.
- Ayers, Joseph G., jr., Montclair, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Hardness-testing machine. No. 1,429,481; Sept. 19.
- Ayers, Theodore C., St. Clairsville, Ohio. Traction device for nonskid chains. No. 1,417,130; May 23.
- Ayle, Earl V., Sidney, Nebr. Seesaw and merry-go-round. No. 1,436,426; Nov. 21.
- Aylesworth, Arthur J., Lakeside, Mich. Fan. No. 1,436,850; Nov. 28.
- Aylesworth, Arthur J., Lakeside, Mich. Fan. No. 1,436,851; Nov. 28.
- Ayling, Arthur W., Toledo, Ohio. Sanitary clean-out plug. No. 1,436,331; Nov. 21.
- Aymar, Carl, Providence, R. I. Cuff button. No. 1,409,514; Mar. 14.
- Aymard, Malcolm F. L. A., Colchester, England. Variable-speed gearing. No. 1,423,067; July 18.
- Ayotte, Joseph R., Chicago, Ill. Storm protector for windshields of automobiles. No. 1,418,121; May 30.
- Ayotte, Joseph R., Chicago, Ill. Wrench or other tool. No. 1,424,794; Aug. 8.
- Ayotte, Joseph R., Chicago, Ill. Wrench. No. 1,438,165; Dec. 12.
- Ayotte, Joseph R., Chicago, Ill., assignor to Code Manufacturing Company. Rotatable hand tool. No. 1,419,100; June 6.
- Ayre, William W., Brooklyn, N. Y. Game. No. 1,420,400; June 20.
- Ayres, Elwood B., and H. Bogaty, assignors to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Air baffle for driers. No. 1,412,598; Apr. 11.
- Ayres, Elwood B., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Apparatus for drying clay bodies. No. 1,429,997; Sept. 26.
- Ayres, Elwood B., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Fan. No. 1,430,486; Sept. 26.
- Ayres, Elwood B., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Tray-flushing mechanism. No. 1,431,770; Oct. 10.
- Ayres, Elwood B., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Drier. No. 1,439,284; Dec. 19.
- Ayres, Elwood B., and T. H. Rhoads, assignors to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Drier. No. 1,423,298; July 18.
- Ayres, Hiram D., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-testing method and machine. No. 1,408,159; Feb. 28.
- Ayres, Hiram D., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Vulcanizing rubber articles. No. 1,408,678; Mar. 7.
- Ayers, John T., Montreal, Quebec, Canada. Process of and apparatus for washing paper-machine felts. No. 1,438,286; Dec. 12.
- Aze, Emile. (See Brice, O. L., and Aze.)
- B. B. Hanak Company. (See Wilson, Morris, assignor.)
- B-B. Manufacturing and Drilling Company. (See Mathews, Samuel J., assignor.)
- B. B. Specialty Co. (See Burke, C. E., and Beckwith, assignors.)
- B. B. Specialty Company. (See Burke, Claton E., assignor.)
- B. O. T. Mfg. Co. (See Tilden, Bert O., assignor.)
- B R F Manufacturing Company. (See Leslie, Freeland D., assignor.)

Alphabetical list of patentees—Continued.

- B. S. A. Guns, Limited. (See Norman, George, assignor.)
 B. S. A. Tools, Limited. (See Lewis, Frank M., assignor.)
 B. V. D. Company, The. (See Erlanger, Charles S., assignor.)
 B. & B. Photographic Co. (See Barber, Anthony A., assignor.)
 B. & W. Tool & Die Co., The. (See Billings, William W., assignor.)
 Baar, Emil N. (See Evans, William F., assignor.)
 Baba, Franz, Irvington, N. J. Incubator. No. 1,413,887; Apr. 25.
 Babb, Aileen, and E. B. Harris, Hillsboro, Oreg. Fruit-packing machine. No. 1,412,991; Apr. 18.
 Babb, Charles S., Chicago, Ill., assignor to The Barber Asphalt Paving Company, Philadelphia, Pa. Pipe joint and producing it. No. 1,414,800; May 2.
 Babbitt, Ray T., Petoskey, Mich. Foot-power-operated vehicle. No. 1,412,331; Apr. 11.
 Babcock, Basil P., assignor to Sprague Canning Machinery Company, Chicago, Ill. Can-filling machine. No. 1,434,766; Nov. 7.
 Babcock, Basil P., assignor to Sprague Canning Machinery Company, Chicago, Ill. Can-filling machine. No. 1,439,858; Dec. 26.
 Babcock, Charles W., Waterloo, Iowa. Auxiliary locking means for vaults. No. 1,426,946; Aug. 22.
 Babcock, Everett P., et al. (See Power, Dudley P., assignor.)
 Babcock, Frank, Farwell, Mich. Pump stop. No. 1,410,282; Mar. 21.
 Babcock, George W., Rochester, N. Y. Apparatus for producing sticks of comb honey. No. 1,407,244; Feb. 21.
 Babcock, H. H., Company. (See Davis, Francis G., assignor.)
 Babcock, Harry D., Tacoma, Wash. Plate-tightening device. No. 1,427,893; Sept. 5.
 Babcock, Henry S., Alma, Mich. Printer's rule and form. No. 1,436,852; Nov. 28.
 Babcock, Leland A., assignor to Sprague Canning Machinery Company, Chicago, Ill. Pulping machine. No. 1,433,523; Oct. 31.
 Babcock, Le Roy J., Denver, Colo. Automatic air-brake valve for automobile engines. No. 1,420,073; June 20.
 Babcock, Milton P., Buffalo, N. Y. Airplane. No. 1,427,086; Aug. 29.
 Babcock Printing Press Manufacturing Company, The. (See Britcher, Charles W., assignor.)
 Babcock & Wilcox Company, The. (See Harter, Isaac, assignor.)
 Babcock & Wilcox Company, The. (See Inslee, Heber C., assignor.)
 Babcock & Wilcox Company, The. (See Jacobus, David S., assignor.)
 Babcock & Wilcox Company, The. (See Lewis, Nathan E., assignor.)
 Babcock & Wilcox Company, The. (See Stevens, J. A., and Pratt, assignors.)
 Babcock & Wilcox Company, The. (See Wood, Benjamin F., assignor.)
 Babendreier, Albert, Biloxi, Miss. Can-filling apparatus. No. 1,420,401; June 20.
 Babka, Stanley, et al. (See Kozlosky, Theodore, assignor.)
 Bable, Edward M., Sistersville, W. Va., assignor of one-half to T. S. Hanes, Kanauga, Ohio. Nut lock. No. 1,418,050; May 30.
 Babson, Henry B., and J. J. Stampen, Chicago, Ill. Valve. No. 1,416,771; May 23.
 Bacchi, Berico, Orange, N. J. Leg guard for motor cycles. No. 1,431,866; Oct. 10.
 Bach, Emmann, Woonsocket, R. I. Self-opening knurling tool. No. 1,422,649; July 11.
 Bach, Emmann, and J. Stuart, Woonsocket, R. I. Safety-razor-blade holder. No. 1,418,352; June 6.
 Bach, Irvin S., East Rockaway, assignor to Adams-Bach Hdkf. Mfg. Co., New York, N. Y. Handkerchief set. No. 1,419,658; June 13.
 Bach, Neils P., Millburn, N. J., assignor to Perfect Vacuum Canning Company, New York, N. Y. Apparatus for sealing containers. No. 1,423,591; July 25.
 Bach, William F., Chicago, Ill. Self-scouring crushing machine. No. 1,434,360; Nov. 7.
 Bacharach, Herman, assignor to Bacharach Industrial Instrument Company, Pittsburgh, Pa. Device for measuring the velocity of gases. No. 1,419,798; June 13.
 Bacharach Industrial Instrument Company. (See Bacharach, Herman, assignor.)
 Bache-Wiig, Carl, and J. Bache-Wiig, Portland, Me.; said J. Bache-Wiig assignor of eighty per cent of his interest to said C. Bache-Wiig. Preparing fibrous pulp material. No. 1,418,353; June 6.
 Bache-Wiig, John. (See Bache-Wiig, Carl and J.)
 Bachila, Fred, Walkerville, Ontario, Canada. Level. No. 1,437,164; Nov. 28.
 Bachle, Andrew. (See Elbertz, Frank V., assignor.)
 Bachman, Franklin H. (See Bachman, Reuben H. and F. H.)
 Bachman, John S., Rome, Ga. Twister. No. 1,435,789; Nov. 14.
 Bachman, Joseph A., Austin, Tex. Cotton tramper. No. 1,412,824; Apr. 18.
 Bachman, Reuben H. and F. H., Allentown, Pa. Nonskid device for automobile tires. No. 1,429,825; Sept. 19.
 Bachman, Walter S., Chicago, Ill. Sterilizing attachment for water-supply pipes. No. 1,435,790; Nov. 14.
 Bachmann, Wilhelm. (See Zsigmondy, R., and Bachmann.)
 Bachofen, Theodor, West Hoboken, N. J. Woven-in knife for pile-fabric looms. No. 1,418,512; June 6.
 Bachrach, Joseph, New York, N. Y. Inkwell. No. 1,404,681; Jan. 24.
 Bachrik, Joseph, Smithdale, Pa. Detachable handle for containers. No. 1,406,811; Feb. 14.
 Back, Henry S., Retsil, Wash. Portable gold-saving machine. No. 1,439,055; Dec. 19.
 Backhaus, Arthur A. (See Whitaker, M. C., and Backhaus.)
 Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Apparatus for making ethylene. No. 1,402,336; Jan. 3.
 Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Production of halogenated hydrocarbons. No. 1,402,337; Jan. 3.
 Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Apparatus for the production of halogenated hydrocarbons. No. 1,402,338; Jan. 3.
 Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Apparatus for producing high-grade esters. No. 1,403,224; Jan. 10.
 Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Apparatus for esterification. No. 1,403,225; Jan. 10.
 Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Liquid fuel. No. 1,419,910; June 20.
 Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Apparatus for the manufacture of esters. No. 1,425,624; Aug. 15.
 Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Manufacture of esters. No. 1,425,625; Aug. 15.
 Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Production of ester condensation products. No. 1,425,626; Aug. 15.
 Backhaus, Arthur A., Baltimore, and F. B. Arentz, Curtis Bay, Md., assignors to U. S. Industrial Alcohol Co. Apparatus for making aldehydes and separating the same from the other products formed. No. 1,426,449; Aug. 22.
 Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Apparatus for the production of aldehydes. No. 1,437,483; Dec. 5.
 Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Making plastic compositions and products thereof. No. 1,437,952; Dec. 5.
 Backlund, Fredrick N., Detroit, Minn. Hen's nest. No. 1,431,278; Oct. 10.
 Backman, Herman, assignor to Variety Manufacturing Company, Chicago, Ill. Fire door, safety gate, and the like. No. 1,415,977; May 16.
 Backman, Kenneth B. (See Cuppitt, William B., assignor.)
 Backmire, George H., Collegeville, Pa. Holder or support. No. 1,438,808; Dec. 12.
 Backscheider, Frank J., deceased, Cincinnati, Ohio; S. Backscheider, administratrix. Portable electric tool. No. 1,407,622; Feb. 21.
 Backscheider, Sarah, administratrix. (See Backscheider, Frank J.)
 Backus Novelty Company. (See Gay, Ira A., assignor.)
 Backus, George W., Los Angeles, Calif. Dishwasher. No. 1,414,928; May 2.
 Bac-Lite Corporation, The. (See Ellithorpe, Gilbert S., assignor.)
 Baco Electric Co. (See Nelson, Nels A., assignor.)
 Bacon, Casper L. (See Thaxton, Thomas W., assignor.)
 Bacon, Charles A., South Bend, Ind. Chilled moldboard and point for plows and making same. No. 1,439,937; Dec. 26.
 Bacon, Charles V., Mahwah, N. J. Recovering iron oxide and other products from spent iron sludge. No. 1,428,521; Sept. 12.
 Bacon, Frank W., Los Angeles, Calif. Directory. No. 1,418,269; June 6.
 Bacon, Lee O. (See Zuck, O. C., and Bacon.)
 Bacon, Nathaniel T., Peace Dale, R. I., assignor to The Solvay Process Company, Solvay, N. Y. Process of recovering ammonium chloride from solution. No. 1,416,772; May 23.
 Bacon, Raymond F. (See Davis, H. S., and Bacon.)
 Bacon, Raymond F., and H. S. Davis, Pittsburgh, Pa., assignors to Texas Gulf Sulphur Company, Bay City, Tex. Solidifying sulphur. No. 1,419,911; June 20.
 Bacon, Raymond F., and B. T. Brooks, assignors to Gulf Refining Company, Pittsburgh, Pa. Manufacture of gasoline. No. 1,439,683; Dec. 26.
 Bacot, Byron L., McComb, Miss. Tile-molding machine. No. 1,419,198; June 13.
 Baczinski, Edward, Hamtramck, Mich. Trolley-wheel harp. No. 1,406,812; Feb. 14.
 Badagliacca, Joseph, Paterson, N. J. Safety seat for window cleaners. No. 1,437,484; Dec. 5.
 Baddeley, Benjamin F., assignor of forty-nine per cent to J. C. King, San Francisco, Calif. Paddle propeller. No. 1,428,873; Sept. 12.
 Badenhausen, John P., Philadelphia, Pa. Steam-generating system for locomotives. No. 1,404,420; Jan. 24.
 Badenhausen, John P., Philadelphia, Pa. Superheater. No. 1,404,565; Jan. 24.

Alphabetical list of patentees—Continued.

- Bader, Walter, Spondon, near Derby, England, and D. A. Nightingale, Cumberland, Md. Manufacture of aromatic derivatives. No. 1,439,925; Oct. 31.
- Badger Excavator Co. (See Draeger, Lloyd H., assignor.)
- Badger, George L., Quincy, assignor to Hollidge Badger Corporation, Boston, Mass. Internal-combustion engine. No. 1,413,213; Apr. 18.
- Badger, Le Roy H., Oak Park, Ill., assignor to De Remer Blatchford Company, Chicago, Ill. Ladder construction. No. 1,421,372; July 4.
- Badger Manufacturing Corporation. (See French, Harry L., assignor.)
- Badger Manufacturing Corporation. (See Hathaway, C. H., and Starck, assignors.)
- Badger Manufacturing Corporation. (See Hathaway, Charles H., assignor.)
- Badger Manufacturing Corporation. (See Isgrig, Walter V., assignor.)
- Badger Manufacturing Corporation. (See Starck, William A., assignor.)
- Badger Tool Company. (See Gardner, Edward B., assignor.)
- Badich, George, Knoxville, Tenn. Nonslipping shoe tongue. No. 1,419,199; June 13.
- Badier, Louis G. (See Holliday, L. B., and Badier.)
- Badische Anilin & Soda Fabrik. (See Bosch, C., and Meiser, assignors.)
- Badische Anilin & Soda Fabrik. (See Bosch, Carl, assignor.)
- Badische Anilin- & Soda-Fabrik. (See Günther, Fritz, assignor.)
- Badische Anilin- & Soda-Fabrik. (See Lüttringhaus, A., and Blangey, assignors.)
- Badische Anilin & Soda Fabrik. (See Mittasch, A., and Schumann, assignors.)
- Badische Anilin- & Soda-Fabrik. (See Mittasch, A., and Winkler, assignors.)
- Badische Anilin- & Soda-Fabrik. (See Mittasch, A., Janck, and Wietzel, assignors.)
- Badische Anilin- & Soda-Fabrik. (See Schumann, G. C. and Steimmig, assignors.)
- Badische Anilin & Soda Fabrik. (See Villiger, V., and von Krannichfeldt, assignors.)
- Badische Maschinenfabrik & Eisengiesserei vormals G. Sebald und Sebald & Neff. (See Henninger, Ludwig, assignor.)
- Badowski, Alfred, assignor to Tirometer Valve Corporation of America, Charleston, W. Va. Transparent cap for fire-stem pressure gauges. No. 1,429,313; Sept. 19.
- Badowski, Alfred, assignor to Tirometer Valve Corporation of America, Charleston, W. Va. Transparent cap for fire-stem pressure gauges. No. 1,429,314; Sept. 19.
- Badowski, Alfred, assignor to Tirometer Valve Corporation of America, Charleston, W. Va. Transparent cap for fire-stem pressure gauges. No. 1,429,315; Sept. 19.
- Baecker, Inez W., Chicago, Ill. Gas-burner attachment. No. 1,429,826; Sept. 19.
- Baehn, Frederick, Jersey City, N. J. Tide power. No. 1,407,623; Feb. 21.
- Baehr, Arthur D., Detroit, Mich. Toy aeroplane. No. 1,420,805; June 27.
- Baehr, Gustave, Paris, France. Vehicle top. No. 1,419,799; June 13.
- Baekeland, Leo H., Yonkers, N. Y. Plastic condensation products from ortho-cresol. No. 1,401,953; Jan. 3.
- Baekeland, Leo H., Yonkers, assignor to Bakelite Corporation, New York, N. Y. Composition containing phenolic condensation products and preparing the same. No. 1,439,056; Dec. 19.
- Baer, Carl J., Riverside, Ill. Boat. No. 1,403,828; Jan. 17.
- Baer, Carl J., St. Louis, Mo. Boat. No. 1,406,602; Feb. 14.
- Baer, David H. (See Galpin, G., and Baer.)
- Baer, Jacob A., Honesdale, Pa. Air valve for fuel tanks. No. 1,425,358; Aug. 8.
- Baer, Lawrence E., assignor to Baer & Wilde Company, Attleboro, Mass. Jewelry container. No. 1,420,232; June 20.
- Baer, Lawrence E., assignor to Baer & Wilde Company, Attleboro, Mass. Buckle. No. 1,437,333; Nov. 28.
- Baer, Richard, New York, N. Y. Container seal. No. 1,419,912; June 20.
- Baer, Richard, New York, N. Y. Collar. No. 1,427,752; Aug. 29.
- Baer, Richard, and H. Kopp, New York, N. Y. Locking device for motor vehicles. (Reissue.) No. 15,353; May 16.
- Baer, William H., Portland, assignor to The Russell Mfg. Co., Middletown, Conn. Man's garter. No. 1,434,729; Nov. 7.
- Baer & Wilde Company. (See Baer, Lawrence E., assignor.)
- Baerbalck, Hans, Hamilton, Ohio. Crank-shaft lathe. No. 1,431,919; Oct. 17.
- Baeseler, Heinrich F. E., assignor to Akt. Ges. vorm. Seidel & Naumann, Dresden, Germany, Noiseless pawl and ratchet mechanism. No. 1,409,814; Mar. 14.
- Baeseler, Heinrich F. E., assignor to Akt. Ges. vorm. Seidel & Naumann, Dresden, Germany. Platen lock. No. 1,426,242; Aug. 15.
- Baeseler, Heinrich F. E., assignor to Akt. Ges. vorm. Seidel & Naumann, Dresden, Germany. Arrangement of the paper-pressing rollers of typewriting machines. No. 1,426,243; Aug. 15.
- Baeseler, Heinrich F. E., assignor to Firm: Aktiengesellschaft vorm. Seidel & Naumann, Dresden, Germany. Typewriter-accent-key mechanism. No. 1,439,057; Dec. 19.
- Baeseler, Heinrich F. E., assignor to Firm: Aktiengesellschaft vorm. Seidel & Naumann, Dresden-A, Germany. Automatic ribbon-reversing mechanism. No. 1,439,058; Dec. 19.
- Baetz, Henry, assignor to F. A. C. Skinner and M. G. Skinner, St. Louis, Mo. Paper-making machine. No. 1,438,210; Dec. 12.
- Baetz, Henry, assignor to Skinner Bros. Mfg. Co., St. Louis, Mo. Paper-making machine. No. 1,438,211; Dec. 12.
- Baffetti, Achille A., Chicago, Ill. Treating rubber tires. No. 1,412,992; Apr. 18.
- Bagby, Edward A., Couchwood, La. Automobile-wheel attachment. No. 1,410,871; Mar. 28.
- Bager, Frederic E., Kanosha, Wis., assignor to Frederick C. Austin, Chicago, Ill. Liquid-distributor discharge mechanism. No. 1,421,373; July 4.
- Bager, Svante R. W. M. (See Ferris, W., and Bager.)
- Bagg, Hollis B., Watertown, Conn., assignor to Scovill Manufacturing Company. Scale-balancing device. No. 1,411,600; Apr. 4.
- Bagi, Louis, assignor of one-half to J. Makay, Granite City, Ill. Roller surfacing or polishing machine. No. 1,429,316; Sept. 19.
- Bagi, Louis, assignor of one-half to J. Makay, Granite City, Ill. Roller surfacing or polishing machine. No. 1,429,317; Sept. 19.
- Bagley, Joseph D., Springville, Utah. Treating photographic dry plates or films. No. 1,417,791; May 30.
- Bagnall, Francis E. (See Wilkie, J. B., and Bagnall.)
- Bagnell, Robert A., St. Louis, Mo. Trough. No. 1,421,374; July 4.
- Bagnulo, Alberto, Turin, Italy. Internal-combustion and hot-air engine. No. 1,423,705; July 25.
- Bahl, Errold G., Lincoln, Nebr. Aeroplane fuselage and building same. No. 1,424,066; July 25.
- Bahnson, Sophus P., West Hartlepool, England. Tonnage recorder for ships. No. 1,409,914; Mar. 21.
- Bahnson, Frederic F., Winston-Salem, N. C. Hygrometric device. No. 1,439,217; Dec. 19.
- Bahr, August T. J., assignor of one-half to E. F. Karr, Chicago, Ill., one-fourth to F. Heiberg, and one-fourth to C. Franks, St. Louis, Mo. Clean-out attachment for toilets. No. 1,437,582; Dec. 5.
- Bahuzky, John J., Chicago, Ill. Window or door lock. No. 1,433,671; Oct. 31.
- Baier, Frederick C., assignor of one-half to E. B. Howorka, Chicago, Ill. Mercury motor. No. 1,414,322; Apr. 25.
- Bailard, Willis K., Berkeley, Calif. Tractor. No. 1,435,910; Nov. 21.
- Baile, Charles F., Sykesville, Md. Beekeeper's appliance. No. 1,429,827; Sept. 19.
- Bailey, Alfred A., Spokane, Wash. Manifold. No. 1,418,270; June 6.
- Bailey, Arthur H., Los Angeles, Calif. Sash weight. No. 1,406,917; Feb. 14.
- Bailey, Charles A., Cromwell, Conn. Handle and connected part. No. 1,403,375; Jan. 10.
- Bailey, Charles A., Cromwell, Conn. Toy pistol. No. 1,432,148; Oct. 17.
- Bailey, Charles F., Lawton, England. Kiln for firing pottery and other ware. No. 1,434,730; Nov. 7.
- Bailey, Charles H., Cleveland, Ohio. Flowerpot. No. 1,426,808; Aug. 22.
- Bailey, Charles T., and H. B. Wilson, Tampa, Fla. Window-shade holder. No. 1,407,624; Feb. 21.
- Bailey, Clifford E., Cromwell, assignor to The Stanley Works, New Britain, Conn. Spring hinge. No. 1,427,929; Sept. 5.
- Bailey, Curtis D., Massillon, Ohio. Pedal lock. No. 1,415,425; May 9.
- Bailey, Cyrus, Chicago, Ill. Carpenter's plane. No. 1,418,513; June 6.
- Bailey, Emmett L., assignor of one-half to R. L. Bailey, Williamson, W. Va. Mine car. No. 1,417,131; May 23.
- Bailey, Ervin G., Cleveland Heights, Ohio, assignor to Bailey Meter Company, Boston, Mass. Apparatus for metering granular materials. No. 1,425,936; Aug. 15.
- Bailey, George C., Woodcliff-on-Hudson, C. W. Fischer, Grantwood, N. J., and J. F. W. Schulze, Edgewood, Md., assignors to The Barrett Company. Purification of substances by distillation with a solvent. No. 1,424,138; July 25.
- Bailey, George C., Woodcliff-on-Hudson, and A. E. Craver, Cliffside, N. J., assignors to The Barrett Company. Catalytic oxidation of acenaphthene. No. 1,439,500; Dec. 19.
- Bailey, Gilbert E., and A. E. Sedgwick, Los Angeles, Calif. Extracting lithium and potassium from lithium-potassium ores and also forming potassium alum from such ores. No. 1,430,877; Oct. 3.
- Bailey, Greenwood, and W. Robertshaw, assignors of one-third to H. F. Anderton, Bradford, England. Apparatus for treating wool and other fibrous substances. No. 1,432,825; Oct. 24.
- Bailey, James, assignor to Corning Glass Works, Corning, N. Y. Rotating leer and operating same. No. 1,416,595; May 16.
- Bailey, James A., Toledo, Ohio. Screen hanger. No. 1,437,036; Nov. 28.

- Bailey, James G., Knoxville, Tenn. Sewing-machine needle guard. No. 1,407,114; Feb. 21.
- Bailey, James G., Knoxville, Tenn. Clutch. No. 1,407,115; Feb. 21.
- Bailey, James G., Knoxville, Tenn. Stop motion for sewing machines. No. 1,407,367; Feb. 21.
- Bailey, Leland T., Lynchburg, Va. Tire. No. 1,405,888; Feb. 7.
- Bailey, Leslie E., Wahiawa, assignor to Hawaiian Pine-apple Company, Limited, Honolulu, Hawaii. Machine for laying mulches. No. 1,436,139; Nov. 21.
- Bailey, Lewis, Hayden, Ariz., assignor to Minerals Separation North American Corporation, New York, N. Y. Concentration of ores. No. 1,418,514; June 6.
- Bailey, Marion M., Detroit, Mich. Vehicle wheel. No. 1,403,001; Jan. 10.
- Bailey Meter Company. (See Bailey, Ervin G., assignor.)
- Bailey, Middlesex A., Yonkers, N. Y. Means for educational tests. No. 1,437,037; Nov. 28.
- Bailey, Rand S., Montclair, N. J., assignor to American Telephone and Telegraph Company. Telephone-exchange system. No. 1,433,594; Oct. 31.
- Bailey, Rand S., Montclair, N. J., assignor to American Telephone and Telegraph Company. Telephone-exchange system. No. 1,434,518; Nov. 7.
- Bailey, Raymond W., Akron, Ohio. Fishing hook. No. 1,419,903; June 13.
- Bailey, Robert L. (See Bailey, Emmett L., assignor.)
- Bailey, Robert L., Detroit, Mich. Crank shaft. No. 1,420,905; June 27.
- Bailey, Rufus G., San Jose, Calif. Bicycle saddle truss and seat-post clamp. No. 1,431,356; Oct. 10.
- Bailey, Stephen L. (See Douglas, W. W. and Bailey.)
- Bailey, Theodore A., Orlando, Fla. Dental floss holder. No. 1,415,765; May 9.
- Bailey, Walter H., Toronto, Ontario, Canada, assignor to Charles A. Branson Company, Buffalo, N. Y. Vibrator for high-frequency electromedical apparatus. No. 1,431,867; Oct. 10.
- Bailey, William E., Washington, D. C. Electrolysis. No. 1,416,929; May 23.
- Bailey, Louis, Columbus, Ohio. Bank, safe, and vault lock and the like. No. 1,406,813; Feb. 14.
- Baillie, Amelia, assignor to Nathan Krauskopf Co., New York, N. Y. Garment. No. 1,411,601; Apr. 4.
- Bailly, Armand, Paris, France. Traveling crane. No. 1,432,378; Oct. 17.
- Bailly, Marcel, Paris, France. Holder or container for tablets of soap. No. 1,437,217; Nov. 28.
- Bailly, Philippe H., Paris, France. Transmission gearing. No. 1,410,445; Mar. 21.
- Baily, Robert W., Chicago, Ill. Plate-bending press. No. 1,437,953; Dec. 5.
- Baily, Thaddeus F., Alliance, Ohio. Producing graphite. No. 1,420,512; June 20.
- Baily, Thaddeus F., Alliance, Ohio. Apparatus for producing graphite. No. 1,434,519; Nov. 7.
- Bain, Benjamin F. (See Vaughan, Thomas M., assignor.)
- Bain, Benjamin F., Pittsburgh, Pa. Mechanical toy. No. 1,404,728; Jan. 31.
- Bain, David B. (See Keith, G., and Bain.)
- Bain, David S., Nordegg, Alberta, Canada. Gate-actuating mechanism. No. 1,432,436; Oct. 17.
- Bain, Frederick, et al. (See Wickstrom, Alfred, assignor.)
- Bain, Henry, Chicago, Ill. Undergarment clasp. No. 1,438,354; Dec. 12.
- Bain, Holiace H., Shreveport, La. Collapsible receptacle. No. 1,412,912; Apr. 18.
- Bain, James E., et al. (See Wickstrom, Alfred, assignor.)
- Bain, Zeno M., Coffee Creek, Mont. Disk sharpener. No. 1,406,716; Feb. 14.
- Bainbridge, Roy S., Augusta, Kans. Valve-spring compressor. No. 1,405,253; Jan. 31.
- Baines, Charles W. (See Lavadu, Clark, and Baines.)
- Baines Engineering Company, The. (See Baines, Henry C., assignor.)
- Baines, Henry C., East Cleveland, assignor to The Baines Engineering Company, Canal Dover, Ohio. Transmission. No. 1,421,375; July 4.
- Bains, George B., 3d. (See Atwood, H. N., and Bains.)
- Bair, Clarence L., Detroit, assignor to Auto Specialties Manufacturing Co., St. Joseph, Mich. Vehicle top-bow holder. No. 1,408,160; Feb. 28.
- Bair, Clarence L., St. Joseph, Mich., assignor to Auto Specialties Manufacturing Co., San Francisco, Calif. Vehicle bow-top holder. No. 1,408,161; Feb. 28.
- Bair, Jesse W. (See Harris, D. M., and Bair.)
- Bair, Joseph H., Philadelphia, Pa., assignor of eighteen-sixtieths to J. O. David, Philadelphia, Pa., fifteen-sixtieths to H. S. Knight, Chicago, Ill., and ten-sixtieths to L. H. Taylor Jr., Philadelphia, Pa. Fluid-power transmission apparatus. No. 1,423,386; July 18.
- Bair, Peebles & Tooby. (See Peebles, David D., assignor.)
- Baird Corn Husker Co. (See Baird, William S., assignor.)
- Baird, Frank T., Blue Island, Ill. Adapter. No. 1,422,331; July 11.
- Baird, George O., Shreveport, La. Mud shoe. No. 1,427,571; Aug. 29.
- Baird Machine Company, The. (See Lewis, Arthur J., assignor.)
- Baird, William S., Decatur, assignor to Baird Corn Husker Co., Champion, Ill. Stalk-arm attachment for corn-harvesting machines. No. 1,419,347; June 13.
- Baird, William S., Elmhurst, assignor to American Car and Foundry Company, New York, N. Y. Clasp brake rigging. No. 1,432,230; Oct. 17.
- Baits, Stuart G., assignor to Essex Motors, Detroit, Mich. Starting generator for internal-combustion engines. No. 1,440,051; Dec. 26.
- Baker, Albert B. (See Collins, Norman H., assignor.)
- Baker, Alfred Z., Newark, N. J. Foldable form. No. 1,438,083; Dec. 5.
- Baker, Arthur R., assignor, by mesne assignments, to C. G. McCutchen, Indianapolis, Ind. Igniter trip mechanism. No. 1,419,711; June 13.
- Baker Brush Company. (See Joerger, F., and Shulman, assignors.)
- Baker Casing Shoe Company. (See Baker, Reuben C., assignor.)
- Baker, Charles D., Cades, S. C. Automobile fender clamp guard. No. 1,439,599; Dec. 15.
- Baker, Charles J., Kearney, N. J. Fowl retainer or holder. No. 1,410,640; Mar. 28.
- Baker, Charles L., Lancaster, Pa. Top notch and runner. No. 1,429,828; Sept. 19.
- Baker, David B., Hoquiam, Wash. Clothes-drying rack. No. 1,425,231; Aug. 8.
- Baker, Dexter C., assignor to Baker-Hansen Manufacturing Company, Oakland, Calif. Compressor. No. 1,429,829; Sept. 19.
- Baker, Donald M., Columbus, Ohio. Trap nests. No. 1,411,397; Apr. 4.
- Baker, Edwin H. (See Tabor, Luri, assignor.)
- Baker, Emma D., Nashville, Tenn. Hair curler. No. 1,416,596; May 16.
- Baker, Erle K., Chicago, Ill. Bicycle and motor drive therefor. No. 1,436,788; Nov. 28.
- Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Semiwood wheel for motor trucks. No. 1,407,829; Feb. 28.
- Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Semiwood wheel for motor trucks. No. 1,435,370; Nov. 14.
- Baker, Erle K., assignor to Universal Rim Company, Chicago, Ill. Transplit rim. No. 1,435,577; Nov. 14.
- Baker, Ernest P., Manson, Iowa. Dispensing apparatus. No. 1,422,913; July 18.
- Baker, Eugene L., Taunton, Mass. Stove oven. No. 1,426,032; Aug. 15.
- Baker, Fenner B., assignor to Art Needle Manufacturing Co., Inc., New York, N. Y. Embroidering machine. No. 1,408,903; Mar. 21.
- Baker Food Products Company. (See Malekow, Philip, assignor.)
- Baker, Frank E., and T. J. Biggs, Birmingham, England. Motor cycle. No. 1,416,315; May 16.
- Baker, Franklin T., Jr., Alexandria, La. Strap for automobile tops. No. 1,408,922; Mar. 7.
- Baker, Fred J., Sioux City, Iowa. Oil cup. No. 1,409,644; Mar. 14.
- Baker, Frederick, Blackheath, assignor to C. E. Hart, Warnford Court, London, England, and H. H. Bunyap, Maidenhead, England. Sewing machine. No. 1,417,476; May 23.
- Baker, Frederick C., Portland, Oreg. Lighting fixture. No. 1,420,806; June 27.
- Baker, George H., San Diego, Calif. Window-shade holder. No. 1,414,929; May 2.
- Baker, George M., Philadelphia, Pa. Reversible and adjustable metal cobbling shoe last. No. 1,434,669; Nov. 7.
- Baker, George R., London, England, assignor to Joseph Baker Sons and Perkins Company, Incorporated, White Plains, N. Y. Machine for use in the manufacture of confectionery. No. 1,437,880; Dec. 5.
- Baker, George W., Jacksonville, Fla. Self-leveling stove for ships. No. 1,421,890; July 4.
- Baker, Grover, Temple Hill, Ill. Swinging scaffold. No. 1,436,977; Nov. 28.
- Baker-Hansen Manufacturing Company. (See Baker, Dexter C., assignor.)
- Baker, Harold J., North Street, Mich. Propeller structure. No. 1,435,791; Nov. 14.
- Baker, Harold T., and J. D. Haskell, Dayton, Ohio. Paper-pulp-screen machine. No. 1,429,707; Sept. 19.
- Baker, Hartley O., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Water boiler. No. 1,409,515; Mar. 14.
- Baker, Hartley O., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Pump drive apparatus. No. 1,420,807; June 27.
- Baker, Hartley O., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Valve gear. No. 1,424,146; Aug. 1.
- Baker, Hartley O., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Water-tube boiler. No. 1,425,162; Aug. 8.
- Baker, Henry C., and E. G. Lehman, Canton, assignors, by mesne assignments, to United Alloy Steel Corporation, Canton, Ohio. Boltless rack shelving. No. 1,411,260; Apr. 4.
- Baker, Howard A., El Paso, Tex. Wheel-locking device. No. 1,426,534; Aug. 22.
- Baker, Howard H., Buffalo, N. Y. Fuse. No. 1,405,254; Jan. 31.
- Baker, Howard H., assignor to United States Fuse Corporation, Buffalo, N. Y. Fuse. No. 1,406,434; Feb. 14.

Alphabetical list of patentees—Continued.

- Baker, Howard H., assignor to United States Fuse Corporation, Buffalo, N. Y. Fuse. No. 1,421,376; July 4.
- Baker, Hugh J., Indianapolis, Ind. Spacer for reinforcement. No. 1,409,645; Mar. 14.
- Baker, Hugh J., Indianapolis, Ind. Collapsible falsework for concrete floors. No. 1,425,823; Aug. 15.
- Baker, James H., Saratoga Springs, N. Y. Pulp screen. No. 1,404,566; Jan. 24.
- Baker, James N., Brooklyn, assignor to R. Hoe and Co., New York, N. Y. Routing tool. No. 1,423,511; July 25.
- Baker, Jesse G. (See Mills, C. A., and Baker.)
- Baker, Jesse H., Henderson, Ill. Vaporizing gasket. No. 1,407,113; Feb. 21.
- Baker, Jesse J., sr., Freeport, Tex. Rim breaker. No. 1,436,789; Nov. 28.
- Baker, John C. (See Phelps, E. B., Stevenson, and Baker.)
- Baker, John C. (See Wallace, C. F., and Baker.)
- Baker, John C., Ridgefield Park, assignor to Wallace & Tiernan Co. Inc., Belleville, N. J. Maturing and bleaching flour. No. 1,404,922; Jan. 31.
- Baker, John C., Ridgefield Park, assignor to Wallace & Tiernan Co. Inc., Belleville, N. J. Sterilizing water and sewage. No. 1,413,153; Apr. 18.
- Baker, John C., Ridgefield Park, assignor to Wallace & Tiernan Co. Inc., Belleville, N. J. Bleaching paper and fabrics. No. 1,413,154; Apr. 18.
- Baker, John C., Ridgefield Park, N. J., assignor to Albert W. Johnston, New York, N. Y. Manufacture of milk fat. No. 1,418,092; Apr. 18.
- Baker, John F. L., assignor to The Wickes Boiler Company, Saginaw, Mich. Boiler. No. 1,408,244; Feb. 28.
- Baker, John F. L., Saginaw, Mich., assignor to The Wickes Boiler Company, Saginaw, Mich. Stay bolt. No. 1,411,261; Apr. 4.
- Baker, John S., Los Angeles, Calif. Ballot. No. 1,410,984; Mar. 28.
- Baker, Joseph, & Sons, Limited. (See Prescott, William E., assignor.)
- Baker, Joseph, Sons and Perkins Company. (See Baker, George R., assignor.)
- Baker, Joseph, Sons & Perkins Company. (See Baker, R. E., Ford, and Cummins, assignors.)
- Baker, Joseph, Sons & Perkins Company. (See Baker, R. E., Ford, and Elliott, assignors.)
- Baker, Joseph, Sons and Perkins Company. (See Hole, Herbert W., assignor.)
- Baker, Joseph, Sons and Perkins Limited. (See Prescott, William E., assignor.)
- Baker, Le Roy, St. Louis, Mo. Paint pigment. No. 1,413,565; Apr. 25.
- Baker, Le Roy, St. Louis, Mo. Making pigments. No. 1,425,436; Aug. 8.
- Baker, Le Roy, St. Louis, Mo. Making pigments. No. 1,425,437; Aug. 8.
- Baker, Lewis S., Ossining, assignor to Western Electric Company, Incorporated, New York, N. Y. Coffee percolator. No. 1,406,814; Feb. 14.
- Baker, Linnaeus E., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Scale for transparent vessels for liquids. No. 1,409,993; Mar. 21.
- Baker, Linnaeus E., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Apparatus for housing hose. No. 1,417,484; May 30.
- Baker, Malcolm H., deceased, Braintree, Mass.; M. H. Baker, administratrix, assignor, by mesne assignments, to Tremont Products Company. Thermodynamically-controlled knife switch. No. 1,407,315; Feb. 21.
- Baker Manufacturing Company, The. (See Baker, Rollyn H., assignor.)
- Baker Manufacturing Corporation. (See Case, John J., assignor.)
- Baker, Marie, administratrix. (See Baker, Malcolm H.)
- Baker, Max, Richmond, Va. Dishwasher. No. 1,403,999; Jan. 17.
- Baker, Norman L., Manufacturing Co. (See Baker, Norman L., assignor.)
- Baker, Newton D., Secretary of War, trustee. (See Buckendale, Laurence R., assignor.)
- Baker, Newton D., Secretary of War, trustee. (See Butler, John S., assignor.)
- Baker, Newton D., Secretary of War, trustee. (See Johnson, Stuart F., assignor.)
- Baker, Newton D., Secretary of War, trustee. (See Josephs, Lyman C., Jr., assignor.)
- Baker, Newton D., Secretary of War. (See Milligan, Lowell H., assignor.)
- Baker, Newton D., Secretary of War, trustee. (See Newman, Edwin P. S., assignor.)
- Baker, Newton D., Secretary of War, trustee. (See Peoples, John S., assignor.)
- Baker, Newton D., Secretary of War, trustee. (See Swan, John H., assignor.)
- Baker, Newton D., Secretary of War, trustee. (See Sweeney, Orland R., assignor.)
- Baker, Newton D., Secretary of War, trustee. (See Trumbull, H. L., and Evans, assignors.)
- Baker, Norman L., Philadelphia, Pa., assignor to N. L. Baker Manufacturing Co. Rim for automobile wheels. No. 1,405,563; Feb. 7.
- Baker, Olaf, et al. (See Scribner, E. W., and Depee, assignors.)
- Baker, Orville W., Indianapolis, Ind. Piston construction. No. 1,427,930; Sept. 5.
- Baker, Percy J., Malvern, Pa. Chain fastener. No. 1,427,572; Aug. 29.
- Baker-Perkins Manufacturing Corporation. (See Eggert, Gustav B., assignor.)
- Baker-Perkins Manufacturing Corporation. (See Gase, Eugene, assignor.)
- Baker, Phillip, Malden, Mass. Mattress-filling machine. No. 1,429,998; Sept. 26.
- Baker, Reuben C., assignor to Baker Casing Shoe Company, Coalinga, Calif. Dump bailer. No. 1,406,329; Feb. 14.
- Baker, Reuben C., assignor to Baker Casing Shoe Company, Coalinga, Calif. Pitman end. No. 1,424,435; Aug. 1.
- Baker, Robert E., Bronxville, E. H. Ford, Brooklyn, and I. Elliott, New York, assignors, by mesne assignments, to Joseph Baker Sons & Perkins Company, Inc., White Plains, N. Y. Pump-operating mechanism for wafer-baking machines. No. 1,407,457; Feb. 21.
- Baker, Robert E., Bronxville, E. H. Ford, Brooklyn, N. Y., and A. F. Cummins, Nutley, N. J., assignors, by mesne assignments, to Joseph Baker Sons & Perkins Company, Inc., White Plains, N. Y. Machine for proving dough. No. 1,412,444; Apr. 11.
- Baker, Rollyn H., assignor to The Baker Manufacturing Company, Dayton, Ohio. Cup and beverage vending device. No. 1,437,485; Dec. 5.
- Baker Steam Motor Car and Manufacturing Co., The. (See Baker, Hartley O., assignor.)
- Baker Steam Motor Car and Manufacturing Company, The. (See Orr, Carleton A., assignor.)
- Baker, Thaddeus R. (See Keeler, Frank F., Sr., assignor.)
- Baker, Thomas V., Napavine, Wash. Saw-filing gauge. No. 1,431,087; Oct. 3.
- Baker, Vernon E., Elyria, Ohio. Embossing device. No. 1,402,708; Jan. 3.
- Baker, Walter C., assignor to Standard Parts Company, Cleveland, Ohio. Brake mechanism. No. 1,423,901; July 25.
- Baker, Walter C., assignor to The Standard Parts Company, Cleveland, Ohio. Brake mechanism. No. 1,426,450; Aug. 22.
- Baker, Walter W., and F. W. Franklin, Syracuse, N. Y. Tool and holder therefor. No. 1,424,392; Aug. 1.
- Baker Wheel & Rim Company. (See Baker, Erle K., assignor.)
- Baker, William. (See Lane, Samuel E., assignor.)
- Baker, William E., West Norwood, England. Ironing machine. No. 1,423,068; July 18.
- Baker, William E., West Norwood, England. Ironing machine. No. 1,431,279; Oct. 10.
- Baker, William E., and W. F. Sonneman, assignors to Wonder Trap Co., Inc., Waco, Tex. Machine for manufacturing wire cages. No. 1,424,973; Aug. 8.
- Baker, William G., assignor to C. Bodri, New York, N. Y. Saw. No. 1,411,899; Apr. 4.
- Baker, William H., Newton, Kans. Calendar. No. 1,436,140; Nov. 21.
- Baker, William H., Montreal, Quebec, Canada, assignor to Draper Corporation, Hopedale, Mass. Cop-holding skewer for looms. No. 1,416,157; May 16.
- Baker, William H., and C. E. Carter, Montreal, Quebec, Canada; said Carter assignor to said Baker. Bobbin or cop feeder. No. 1,403,728; Jan. 17.
- Baker & Company. (See Maculen, F., and Van Allen, assignors.)
- Baker & Company. (See Taylor, Arthur B., assignor.)
- Baker & Company. (See Van Allen, George L., assignor.)
- Bakken, Andrew H. (See Aalborg, C., and Bakken.)
- Bakken, Julia, Northwood, N. Dak. Pie-plate attachment. No. 1,420,466; June 20.
- Bakker, Herman. (See Kuijper, K., and Bakker.)
- Bakula, Edward J., St. Louis, Mo. Phonograph-record brush. No. 1,422,166; July 11.
- Balactor, John A. and K. M., Ford City, Ontario, Canada. Automobile engine hood cover. No. 1,424,192; Aug. 1.
- Balactor, Kiril M. (See Balactor, John A. and K. M.)
- Balaguer, Andres, Marianao, Habana, Cuba. Propeller. No. 1,403,729; Jan. 17.
- Balaguer, Andres, Marianao, Habana, Cuba. Vehicle wheel. No. 1,427,429; Aug. 29.
- Balch, Clifton F., Evanston, Ill. Handling accounts. No. 1,416,437; May 16.
- Balcke, Hans, assignor to Maschinenbau Aktiengesellschaft Balcke, Bochum, Germany. Vaporizing system for producing high-grade feed water for steam boilers. No. 1,432,521; Oct. 17.
- Balcker, Martin, assignor to Marquette Tool & Manufacturing Company, Chicago, Ill. Locking device for pressure pads of double-acting power presses. No. 1,409,149; Mar. 14.
- Balcker, Martin, assignor to J. Nelson, Chicago, Ill. Variable-speed friction drive. No. 1,416,158; May 16.
- Balder, Anton W., Pittsburg, assignor of one-fourth to M. W. Dunn, Oakland, Calif. Trunk. No. 1,428,313; Sept. 5.
- Balderston, William, assignor to M. French Battery & Carbon Co., Madison, Wis. Battery. No. 1,404,262; Jan. 24.
- Baldrige, Charles W. (See McFarland, Harvey P., assignor.)
- Baldus, Paul C., Milwaukee, Wis. Valve-setting device. No. 1,402,391; Jan. 3.
- Baldwin, Anna, Pittsburgh, Pa. Bathing cap. No. 1,407,625; Feb. 21.

- Baldwin, Benjamin L., Kansas City, Mo. Automatic car coupling. No. 1,418,861; June 6.
- Baldwin, Bernard, Los Angeles, Calif. Ring-slot-cleaning tool. No. 1,416,673; May 23.
- Baldwin, Creighton F., St. Louis, Mo. Counting machine. No. 1,409,646; Mar. 14.
- Baldwin, Creighton F., St. Louis, Mo. Counting mechanism. No. 1,414,685; May 2.
- Baldwin Eraser Company, The. (See Baldwin, John H., assignor.)
- Baldwin, Frederic E., Philadelphia, Pa. Bottle or like closure. No. 1,410,237; Mar. 21.
- Baldwin, Frederic E., Philadelphia, Pa. Closure. No. 1,423,592; July 25.
- Baldwin, Frederic E., Philadelphia, Pa. Holder for hot-water-bottle stoppers. No. 1,423,593; July 25.
- Baldwin, Frederic E., Philadelphia, Pa. Carburetor for internal-combustion engines. No. 1,435,578; Nov. 14.
- Baldwin, Frederick M., Los Angeles, Calif. Signaling device. No. 1,438,010; Dec. 5.
- Baldwin, Frederick W. (See Bell, A. G., and Baldwin.)
- Baldwin, Frederick W. (See Bell, A. G., Baldwin, and Breese.)
- Baldwin, Frederick W., Baddeck, Nova Scotia, Canada. Torpedo. No. 1,410,872; Mar. 28.
- Baldwin, Henry S., Lynn, Mass., assignor to General Electric Company. Ventilation for dynamo-electric machines. No. 1,439,990; Dec. 26.
- Baldwin, James L., Chicago, Ill. Store-service apparatus. No. 1,419,200; June 13.
- Baldwin, James L., Chicago, Ill. Overhead carrier system. No. 1,425,740; Aug. 15.
- Baldwin, James L., Chicago, Ill. Cash carrier. No. 1,432,947; Oct. 24.
- Baldwin, James P., Los Angeles, Calif. Friction element and making the same. No. 1,438,572; Dec. 12.
- Baldwin, John F., Jr., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission system. No. 1,438,938; Dec. 19.
- Baldwin, John H., assignor to The Baldwin Eraser Company, Chicago, Ill. Erasing attachment for typewriters. No. 1,415,293; May 9.
- Baldwin Locomotive Works, The. (See Ehle, Archibald H., assignor.)
- Baldwin Locomotive Works, The. (See Linton, Morris, assignor.)
- Baldwin Locomotive Works, The. (See Rushton, Kenneth, assignor.)
- Baldwin Locomotive Works, The. (See Shannon, Ellwood M., assignor.)
- Baldwin Locomotive Works, The. (See Sykes, J. P., and Limerick, assignors.)
- Baldwin Locomotive Works, The. (See Wallace, Allen, assignor.)
- Baldwin, Oscar C., assignor of one-half to W. H. Meeker, Winfield, Iowa. Lubricating system. No. 1,429,268; Sept. 19.
- Baldwin, Walter M., Weatherford, Okla. Wrench. No. 1,404,729; Jan. 31.
- Baldwin, William H., Middletown, Conn. Tractor lawn mower. No. 1,417,485; May 30.
- Baldwin, William H., and C. T. Plummer, Duluth, Minn. Drum. No. 1,420,233; June 20.
- Baldwin, William J., Brooklyn, N. Y. Dust separator. No. 1,415,294; May 9.
- Balfour, John W. B., London, England. Burner. No. 1,428,129; Sept. 5.
- Balke, William H., Whitneyville, assignor to The Acme Wire Company, New Haven, Conn. Package for strip or filamentary material and forming the same. No. 1,437,954; Dec. 5.
- Balkwell, Wesley J. (See Schweiger, W. F., and Balkwell.)
- Balkwill, Wesley J., assignor to Multipost Company, Rochester, N. Y. Counter-operating mechanism for stamp affixers. No. 1,406,435; Feb. 14.
- Ball, Albert, Claremont, N. H., assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining machine. No. 1,403,829; Jan. 17.
- Ball, Arlington L., assignor of one-third to H. C. Hequembourg and one-third to G. P. Hequembourg, Dunkirk, N. Y. Hover for poultry. No. 1,417,225; May 23.
- Ball Brothers Glass Manufacturing Company. (See Mingle, Joseph P., assignor.)
- Ball, Clarence R., Washington, D. C. Store service. No. 1,408,679; Mar. 7.
- Ball, David A., Whittier, Calif. Fishing tool. No. 1,416,930; May 23.
- Ball Engine Company. (See Armstrong, Edwin J., assignor.)
- Ball Engine Company. (See Doering, Henry L., assignor.)
- Ball, George, Philadelphia, Pa., assignor to Whiting-Patterson Company, Incorporated. Transferring mechanism. No. 1,434,731; Nov. 7.
- Ball, George H., assignor, by mesne assignments, to The Marlin Firearms Corporation, New Haven, Conn. Firearm. No. 1,418,862; June 6.
- Ball, Guy M., Spokane, Wash. Parachute vent. No. 1,427,771; Sept. 5.
- Ball, Guy M., Spokane, Wash. Fabric structure for parachutes and aerostats and constructing the same. No. 1,427,772; Sept. 5.
- Ball, Henry D., and E. L. Bradbury, Clarksville, Tenn. Knife. No. 1,413,954; Apr. 25.
- Ball, Henry P., assignor to S. Sternau & Co., Inc., Brooklyn, N. Y. Culinary utensil. No. 1,411,076; Mar. 28.
- Ball, Henry P., Brooklyn, assignor to S. Sternau & Co., Inc., New York, N. Y. Stove. No. 1,411,250; Apr. 4.
- Ball, John P., Chicago, Ill. Sewage purifier. No. 1,410,358; Mar. 21.
- Ball, John P., Chicago, Ill. Sewage purifier. No. 1,415,007; May 9.
- Ball, John P., Chicago, Ill. Sewage purifier. No. 1,421,891; July 4.
- Ball, John P., Chicago, Ill. Sewage purifier. No. 1,434,520; Nov. 7.
- Ball, Joseph A. (See Troland, L. T., Ball, and Andrews.)
- Ball, Louise C., New York, N. Y. Floss holder. No. 1,438,939; Dec. 19.
- Ball, Walter, Hubbard, Ohio. Universal generator coupling. No. 1,413,375; Apr. 18.
- Ball, Walter, Hubbard, Ohio. Automatic air release. No. 1,414,249; Apr. 25.
- Ballantine, William B., London, England. Manufacture of ferrochromium alloys. No. 1,430,878; Oct. 3.
- Ballard, Arthur H., San Francisco, Calif., assignor to Ballard Oil Burning Equipment Company, Boston, Mass. Rotary oil burner. No. 1,429,554; Sept. 19.
- Ballard, Arthur H., assignor to Ballard Oven Corporation, Boston, Mass. Apparatus for baking. No. 1,434,035; Oct. 31.
- Ballard, Arthur H., assignor to Ballard Oven Corporation, Boston, Mass. Apparatus for baking. No. 1,434,036; Oct. 31.
- Ballard, Charles F., Hamlet, N. C. Wrench. No. 1,405,255; Jan. 31.
- Ballard, George L., assignor to Wildman Manufacturing Company, Norristown, Pa. Knitting machine. No. 1,402,038; Jan. 3.
- Ballard, Harry E., Holyoke, assignor to The Coburn Trolley Track Manufacturing Company, Chicopee Falls, Mass. Binder for folding doors. No. 1,439,859; Dec. 26.
- Ballard, Herbert T., Norristown, Pa. Knitting machine. No. 1,406,253; Feb. 14.
- Ballard, Herbert T., Norristown, Pa. Needle cylinder for knitting machines. No. 1,406,254; Feb. 14.
- Ballard, Herbert T., Norristown, Pa. Knitting machine. No. 1,423,175; July 18.
- Ballard, Herbert T., Norristown, Pa. Knitting machine. No. 1,424,274; Aug. 1.
- Ballard, Herbert T., Norristown, Pa. Knitted fabric. No. 1,432,739; Oct. 24.
- Ballard, Herbert T., Norristown, Pa. Let-off mechanism for knitting machines. No. 1,435,948; Oct. 24.
- Ballard, Herbert T., Norristown, Pa. Knitting machine for producing zigzag stripes. No. 1,440,266; Dec. 26.
- Ballard, Herbert T., Norristown, Pa. Knitted rib fabric. No. 1,440,267; Dec. 26.
- Ballard, Max H., Chicago, Ill. Expandible finger ring. No. 1,434,981; Nov. 7.
- Ballard, Milton H., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Press. No. 1,405,385; Feb. 7.
- Ballard, Milton H., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Self-lubricating pulley. No. 1,410,544; Mar. 28.
- Ballard, Milton H., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Cutting machine. No. 1,431,920; Oct. 17.
- Ballard Oil Burning Equipment Company. (See Ballard, Arthur H., assignor.)
- Ballard, Orlo O., and J. C. Stedman, Houston, Tex. Fender attachment. No. 1,415,295; May 9.
- Ballard Oven Corporation. (See Ballard, Arthur H., assignor.)
- Ballard, William P. (See Perry, W. D., and Ballard.)
- Ballard, William P., and W. D. Perry, Imbler, Ore. Cabinet ironing board. No. 1,427,343; Aug. 29.
- Ballaz, Peter, West New York, N. J. Ornamental combination wood, coal, oil, and kerosene stove. No. 1,411,251; Apr. 4.
- Balle, Charles W., Detroit, Mich. Reamer. No. 1,402,039; Jan. 3.
- Ballentine, A. E. (See Smith, Charles M., assignor.)
- Ballentine, James H., Huntsville, Ala. Nut lock. No. 1,406,956; Feb. 14.
- Ballert, Otto, Berlin, Germany. Tipping truck. No. 1,405,182; Jan. 31.
- Ballester, Vincent E., Brussels, Belgium. Peeling machine. No. 1,415,766; May 9.
- Ballewittch, Nada G., executrix. (See Coressey, Theodore.)
- Ballin, Maurice, assignor to Neustadter Bros., San Francisco, Calif. Carpenter's nail pocket. No. 1,409,436; Mar. 14.
- Ballin, Solomon, New York, N. Y. Child's garment. No. 1,420,176; June 20.
- Ballister, Thomas F., and H. Goedinghaus, Santa Maria, Calif. Drier. No. 1,437,084; Nov. 28.
- Ballman, Edwin C., St. Louis, Mo., assignor to Valley Electric Company, Wilmington, Del. System of electrical distribution. No. 1,417,710; May 30.

Alphabetical list of patentees—Continued.

- Ballman, Edwin C., St. Louis, Mo., assignor to Valley Electric Company, Wilmington, Del. Lighting system for automobiles. No. 1,418,051; May 30.
- Ballman, Edwin C., assignor to S. A. Whitten, St. Louis, Mo. Electrical measuring instrument. No. 1,428,743; Sept. 12.
- Ballman, Edwin C., St. Louis, Mo., assignor to Valley Electric Company, Wilmington, Del. Electric motor. No. 1,431,620; Oct. 10.
- Ballou, Harold G., Los Angeles, Calif. Buffing machine. No. 1,418,863; June 6.
- Ballou, John M. (See Balzer, V. W., and Ballou.)
- Ballou, Marcus H., Pittsburgh, Pa. Tape attachment. No. 1,403,376; Jan. 10.
- Balluff, Edward J., assignor of one-half to E. Spatz, Chicago, Ill. Polarity reverser. No. 1,431,453; Oct. 10.
- Balmer, Robert, Toronto, Ontario, Canada. Production of fertilizers. No. 1,408,064; Feb. 28.
- Balmer, Thomas, Ottawa, Ontario, Canada. Needle threader. No. 1,436,562; Nov. 21.
- Balogh, Frank O., Lakewood, Ohio. Envelope. No. 1,411,077; Mar. 28.
- Balsam, James. (See Liebowitz, B., and Balsam.)
- Balser, Joseph W., assignor of thirty-five one-hundredths to S. L. Remington, El Dorado, Ark. Ink composition. No. 1,439,685; Dec. 19.
- Balson, Adrian C., Philadelphia, Pa. Continuous player for talking machines. No. 1,436,004; Nov. 21.
- Balster, Frederick W., Wilmington, Del. Burner. No. 1,418,422; June 6.
- Baltes, Walter H., Milwaukee, Wis. Hoist. No. 1,402,469; Jan. 3.
- Balthasar, Arthur, Montclair, N. J. Warp beam and analogous device. No. 1,416,931; May 23.
- Baltimore Oil Engine Company. (See Wygodsky, Leon, assignor.)
- Baltimore Tube Company. (See Beach, Harold K., and N. A., assignors.)
- Baltzley, Louis E., Bloomfield, N. J. Adjustable wrench. No. 1,415,914; May 16.
- Baltzley, Oren F., Hagerstown, Md. Display machine. No. 1,409,516; Mar. 14.
- Baltzley, Oren F., Hagerstown, Md. Display machine. No. 1,409,517; Mar. 14.
- Baltzley, Oren F., Hagerstown, Md., assignor to The Smith-Lee Company, Oneida, N. Y. Bottle-cap machine. No. 1,415,507; May 9.
- Baluss, Fred C., Duluth, Minn. Gas heater for furnaces. No. 1,405,386; Feb. 7.
- Baluta, Leonard S., Berwick, Pa. Reel. No. 1,438,212; Dec. 12.
- Balz, George A., Rahway, N. J. Refractory brick. No. 1,410,729; Mar. 28.
- Balzer, Vernon W., and J. M. Ballou, assignors to T. E. Hudson and P. G. Hugus, Los Angeles, Calif. Lock. No. 1,438,011; Dec. 5.
- Bamberger, Lester, Riverside, Calif. Beehive. No. 1,414,393; May 2.
- Bamberger, Raymond S., Arcadia, Calif. Car suspension for balloons. No. 1,419,205; June 13.
- Bambrick, Anna M. (See Worthington, Tillman B., assignor.)
- Banaszak, John, Ironwood, Mich. Locomotive headlight. No. 1,440,268; Dec. 26.
- Bancalari, Ignacio L., Mexico, Mexico. Transit. No. 1,439,218; Dec. 19.
- Bancel, Paul A., Nutley, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J. Compartment surface condenser. No. 1,406,815; Feb. 14.
- Bancroft, Benjamin M., assignor to B. D. Thorne, New York, N. Y. Starter for internal-combustion engines. No. 1,435,888; Nov. 14.
- Bancroft, Erwin P. (See Phaunentstiel, H., and Bancroft.)
- Bancroft, James L., assignor to The Ohio Body & Blower Company, Cleveland, Ohio. Automobile body construction. No. 1,427,894; Sept. 5.
- Bandoly, Erich A. M., Chicago, Ill. Scale-beam construction. No. 1,415,508; May 9.
- Bands, William H., Southmont Borough, Pa. Fender. No. 1,438,287; Dec. 12.
- Bandura, Andrew, Chicago, Ill. Mining sheave. No. 1,426,271; Aug. 15.
- Bandurski, Walter. (See Labadie, William D., assignor.)
- Bandy, John A., Arkansas City, Ark. Soap receptacle. No. 1,404,730; Jan. 31.
- Baner, Carl O., San Francisco, Calif. Rotary steam engine. No. 1,421,892; July 4.
- Banes, Walter D. (See Gale, H. E., and Banes.)
- Banfield, Arthur C., assignor to Adam Hilger, Limited, London, England. Projection apparatus for gauging screw threads. No. 1,421,057; June 27.
- Bangen, William S., Havana, N. Dak. Attachment for water-closet seats. No. 1,435,685; Nov. 14.
- Bangerter, Friedrich, New York, N. Y. Automatic rapid-fire machine gun. No. 1,424,751; Aug. 8.
- Bangle, Paul M., San Dimas, Calif. Earth-handling apparatus for use in irrigation. No. 1,419,101; June 6.
- Bangs, Chester T., Chicago, Ill. Poppet valve. No. 1,414,495; May 2.
- Bangs, Chester T., Chicago, Ill. Poppet valve. (Reissue.) No. 15,438; Aug. 29.
- Bankers Electric Protective Association. (See Crawford, Franklin E., assignor.)
- Bánki, Donát, Budapest, Hungary. Water turbine. No. 1,436,933; Nov. 28.
- Banknote Press Company. (See Hollingsworth, Samuel, assignor.)
- Banks, Alfonso A., New York, N. Y. Soap sudser. No. 1,434,361; Nov. 7.
- Banks, Arthur J., St. Lambert, Quebec, Canada. Fermentation meter. No. 1,429,269; Sept. 19.
- Banks, Chester C., assignor to The Born Steel Range Company, Cleveland, Ohio. Door suspension for steam cookers. No. 1,436,427; Nov. 21.
- Banks, Edward T., Los Angeles, Calif. Universal joint. No. 1,410,791; Mar. 28.
- Banks, Frederick R., Paterson, N. J., assignor to McNab & Harlin Manufacturing Company, New York, N. Y. Valve handwheel. No. 1,426,272; Aug. 15.
- Banks, George L., Walnut Park, Calif. Aeroplane. No. 1,424,130; July 25.
- Banks, Haskell W., San Diego, Calif. Automatic air-pressure gauge. No. 1,435,272; Nov. 14.
- Banks, John S., Norfolk, Va. Hollow concrete wall. No. 1,421,145; June 27.
- Banks, John W. (See Banks, Willis G., assignor.)
- Banks, Leslie J., East Norwalk, Conn. Lid support. No. 1,433,524; Oct. 31.
- Banks, Oliver S. (See Smothers, E. J., Banks, and Golobich.)
- Banks, Richard E., Washington, D. C. Storage-battery electrolyte. No. 1,429,830; Sept. 19.
- Banks, William H., Winthrop, Mass. Galloping velocipede. No. 1,439,394; Dec. 19.
- Banks, William J. (See Campbell, P., and Banks.)
- Banks, Willis G., assignor to J. W. Banks, Newark, N. J. Line-supporting post. No. 1,402,561; Jan. 3.
- Banner Machine Company, The. (See Grove, Frank H., assignor.)
- Banner, Otto A. (See Falk, H. W., Day, and Banner.)
- Bannigan, John P., assignor of two-thirds to F. B. Adams and D. J. Goldstein, Utica, N. Y. Letter-reproducing device. No. 1,427,254; Aug. 29.
- Bannister, Loring H., Toledo, Ohio. Bottle-cooling chest. No. 1,418,692; June 6.
- Bannon, John F., Bayonne, N. J. Oil burner. No. 1,424,795; Aug. 8.
- Banschbach, Edward A., Chicago, Ill. Vehicle support. No. 1,405,656; Feb. 7.
- Banschbach, Edward A., Chicago, Ill. Steel wheel and tire holder. No. 1,412,034; Apr. 11.
- Banschbach, Edward A., Chicago, Ill. Binding and filing device. No. 1,437,955; Dec. 5.
- Banta, George D., Detroit, Mich. Tire mounting or dismounting machine. No. 1,437,085; Nov. 28.
- Banta, Robert R., Chicago, Ill. Flush valve. No. 1,416,317; May 16.
- Banton, George R., Butternut, Mich. Container. No. 1,407,688; Feb. 28.
- Banwart, William R., West Bend, Iowa. Road leveler. No. 1,418,225; May 30.
- Banzhaf, Albert H. T. (See Uebelmesser, Charles, assignor.)
- Baptista, Ignacio V., Rio de Janeiro, Brazil. Theodolite and similar angle-measuring instrument. No. 1,429,555; Sept. 19.
- Baquin, Hubert C., North Carlton, near Melbourne, Victoria, Australia. Automatically-operating pneumatic wheel for motor and other vehicles. No. 1,418,515; June 6.
- Baramski, Joseph. (See Wismiewski, Walter, assignor.)
- Barany, Edmund R., Brooklyn, N. Y. Machine for shaping articles. No. 1,432,315; Oct. 17.
- Barashick, Aaron, New York, N. Y. Bedstead. No. 1,408,245; Feb. 28.
- Barbarou, Marius J. B., Paris, France. Supporting device for headlights of motor cars. No. 1,410,873; Mar. 28.
- Barbarou, Marius J. B., Paris, France. Steering mechanism for automobiles. No. 1,413,650; Apr. 25.
- Barbarou, Marius J. B., Paris, France. Fastening means for automobile accessories. No. 1,424,611; Aug. 1.
- Barbarou, Marius J. B., Paris, France. Pedal device for motor vehicles. No. 1,438,288; Dec. 12.
- Barbarou, Marius J. B., Paris, France. Speed-reducing gear for aviation motors. No. 1,438,289; Dec. 12.
- Barbay, Paul S., San Francisco, Calif. Lock. No. 1,434,080; Oct. 31.
- Barbé, Maxime. (See Bernard, P., and Barbé.)
- Barbeau, Harry M., assignor to The Willys-Overland Company, Toledo, Ohio. Glass-cutting table. No. 1,410,153; Mar. 21.
- Barbeau, Harry M., assignor to The Willys-Overland Company, Toledo, Ohio. Glass-grinding machine. No. 1,430,879; Oct. 3.
- Barbeau, Leon, Nashua, N. H. Clothespin. No. 1,435,792; Nov. 14.
- Barbeau, Malcolm L., and F. S. Weber, assignors to The S. Howes Co. Inc., Silver Creek, N. Y. Mechanical movement. No. 1,420,360; June 20.
- Barber, Albert J., Steubenville, assignor to The Pipe Machinery Company, Cleveland, Ohio. Attachment for tapping machines. No. 1,426,273; Aug. 15.
- Barber, Allan J., Woonsocket, R. I. Game board. No. 1,428,411; Sept. 5.
- Barber, Anthony A., Arlington, assignor to B. & B. Photographic Co., Newark, N. J. Photographic-film carrier. No. 1,429,270; Sept. 19.

- Barber Asphalt Company, The. (See Browne, Frank A., assignor.)
- Barber Asphalt Company, The. (See Forrest, Charles N., assignor.)
- Barber Asphalt Paving Company, The. (See Babb, Charles S., assignor.)
- Barber, Claire S. (See Richardson, B. J., and Barber.)
- Barber-Colman Company. (See Corrigan, Charles A., assignor.)
- Barber, Franklin L., assignor to Standard Car Truck Company, Chicago, Ill. Roller side bearing. No. 1,425,741; Aug. 15.
- Barber, George, Cleveland Heights, Ohio. Combined fender and nonskid automatic brake. No. 1,402,279; Jan. 3.
- Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Delivery mechanism for printing machines. No. 1,426,033; Aug. 15.
- Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Means for preventing offset from freshly-printed sheets. No. 1,428,931; Sept. 12.
- Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Inking mechanism for bed and cylinder printing presses. No. 1,431,088; Oct. 3.
- Barber, Leon, San Francisco, Calif. T-square keeper. No. 1,404,000; Jan. 17.
- Barber, Lewis R., Fresno, Calif. Fruit-pitting machine. No. 1,424,486; Aug. 1.
- Barber, Lewis R., assignor to Lisenby Manufacturing Company, Fresno, Calif. Ink-fountain drive mechanism. No. 1,412,766; Apr. 11.
- Barber, Lewis R., assignor to Lisenby Manufacturing Company, Fresno, Calif. Paper-feeler mechanism. No. 1,434,582; Nov. 7.
- Barber, Martin A., Cleveland, Ohio, assignor to The American Automatic Connector Company, Wyoming, Del. Locomotive snowplow. No. 1,412,265; Apr. 11.
- Barber Oil Burner Company, The. (See Barber, W. J., and Irvin, assignors.)
- Barber, Orren E., assignor to Kirk-Barber Company, Chicago, Ill. Jig. No. 1,433,252; Oct. 24.
- Barber, Saul P., Pasadena, Calif. Wheel. No. 1,425,824; Aug. 15.
- Barber, William, Brooklyn, N. Y. Trailer leg support. No. 1,415,008; May 9.
- Barber, William, New York, N. Y. Brake mechanism. No. 1,430,349; Sept. 26.
- Barber, William J., assignor of one-half to E. M. Kline, Cleveland, Ohio. Gas burner. No. 1,412,767; Apr. 11.
- Barber, William J., assignor of one-half to E. M. Kline, Cleveland, Ohio. Gas burner. No. 1,412,768; Apr. 11.
- Barber, William J., and W. J. Irvin, Cleveland, Ohio, assignors, by mesne assignments, to The Barber Oil Burner Company. Liquid-fuel burner. No. 1,430,278; Sept. 26.
- Barber, William M., Somerville, Mass. Paper-drying machine. No. 1,419,534; June 13.
- Barbet, E., & Fils et Cie. (See Barbet, Emile A., assignor.)
- Barbet, Emile A., Paris, France. Continuous distillation of glycerin from the weak glycerinous liquors obtained in fermentation processes. No. 1,416,318; May 16.
- Barbet, Emile A., Paris, France. Distilling and rectifying column. No. 1,427,430; Aug. 29.
- Barbet, Emile A., assignor to E. Barbet & Fils et Cie., Paris, France. Apparatus for the continuous production of ether. No. 1,436,332; Nov. 21.
- Barbieri, Cesare, Washington, D. C. Decorticating mechanism. No. 1,403,830; Jan. 17.
- Barbour, Otho A., San Diego, assignor of one-third to W. T. Barbour, San Diego, and one-third to L. J. Ackers, Pomona, Calif. Coat collar. No. 1,408,492; Mar. 7.
- Barbour, Perley E., and H. Lyon, assignors to Brockton Rand Company, Brockton, Mass. Welt-moistening machine. No. 1,416,773; May 23.
- Barbour, Robert, Paterson, N. J. Reversing mechanism for internal-combustion engines. No. 1,416,319; May 16.
- Barbour, William T., et al. (See Barbour, Otho A., assignor.)
- Barcalo Manufacturing Company. (See Illig, George D., assignor.)
- Barch, Walter F., Washington, D. C. Lettering pen. No. 1,419,441; June 13.
- Barchard, T. L., et al. (See McGee, Eugene H., assignor.)
- Barclay, Hjalmar V., New York, N. Y. Heat exchanger. No. 1,416,320; May 16.
- Barclay, Howard, Viroqua, Wis. Device for facilitating shingle laying. No. 1,433,772; Oct. 31.
- Barclay, William G., assignor to E. B. Thelin, Chicago, Ill. Weather-protecting ring for street lamps. No. 1,427,344; Aug. 29.
- Barclay, William P., Chicago, Ill. Vapor-condensing apparatus. No. 1,403,282; Jan. 10.
- Barclay, William P., Chicago, Ill. Toothed-hub friction pinion. No. 1,403,377; Jan. 10.
- Bardeen, Hugh A. (See Burks, D., Bardeen, and Harris.)
- Bardelli, Arturo, Milan, Italy. Automatic firearm. No. 1,425,627; Aug. 15.
- Bardeloni, Cesare, Rome, Italy. Device for receiving radiosignals. No. 1,416,774; May 23.
- Barden, Merritt C., West Pawlet, Vt. Teat cup. No. 1,412,158; Apr. 11.
- Bardill, Paul H., assignor of one-half to W. O. Buesch, Dubuque, Iowa. Heating transformer. No. 1,409,647; Mar. 14.
- Bardon, Oliver H., Cincinnati, Ohio. Manually-operated switch stand. No. 1,423,874; Sept. 12.
- Bardowick, Martin D. J. G., Deinst, near Stade, Germany. Potato-harvesting machine. No. 1,419,800; June 13.
- Bardrof, Frank E. (See Gray, D. E., and Bardrof.)
- Bardsley, Henry, Providence, R. I., assignor to Crompton & Knowles Loom Works. Double-index loom dobby. No. 1,437,126; Nov. 28.
- Bardsley, Willard W., et al., executors. (See Wardwell, Simon W.)
- Bardt, Hans, assignor to Sociedad Hidro-Metalurgica, Santiago, Chile. Dissolving or recovering metals. No. 1,423,069; July 18.
- Bardt, Hans, assignor to Sociedad Hidro-Metalurgica, Santiago, Chile. Precipitating metals from solutions. No. 1,423,070; July 18.
- Bardt, Hans, assignor to Sociedad Hidro-Metalurgica, Santiago, Chile. Manufacturing electrodes. No. 1,423,071; July 18.
- Bardt, Hans, assignor to Sociedad Hidro-Metalurgica, Santiago, Chile. Electric storage battery. No. 1,425,163; Aug. 8.
- Barducci, Pilade, Secondigliano, Naples, Italy. Drying apparatus. No. 1,409,915; Mar. 21.
- Barducci, Pilade, Naples, Italy. Press for pastry materials. No. 1,426,244; Aug. 15.
- Barefoot, Josie C., and A. A. Knee, Charlotte, assignors to Velvet Action Brake Lining Company, Mecklenburg County, N. C. Brake-band lining for automobiles, etc. No. 1,430,143; Sept. 26.
- Bareiss, John C., Philadelphia, Pa. Pipe and tube tester. No. 1,422,522; July 11.
- Barfield, Charles V. (See Brown, Milton D., assignor.)
- Bargar, Frederick C., Columbus, Ohio, assignor to Foamite Firefoam Company, New York, N. Y. Fire extinguisher. No. 1,422,406; July 11.
- Barger, Tom J., Oilton, Okla. Oil-well pump. No. 1,408,852; Mar. 7.
- Barger, Tom J., Oilton, Okla. Oil-well pump. No. 1,408,853; Mar. 7.
- Barger, Tom J., Oilton, Okla. Oil-well pump. No. 1,437,881; Dec. 5.
- Bargren, Richard W., Chicago, Ill. Mail-folding machine. No. 1,436,005; Nov. 21.
- Barili, Arthur E. (See Gates, Benjamin L., assignor.)
- Bark, William, Elyria, Ohio, assignor to National Tube Company, Pittsburgh, Pa. Drawbench. No. 1,411,655; Apr. 4.
- Barkdoll, Edward J., Garrison, Iowa. Bridle. No. 1,405,387; Feb. 7.
- Barker, Alan G., Long Beach, Calif. Hat holder. No. 1,435,889; Nov. 14.
- Barker, Dyson. (See Cordwell, W., and Barker.)
- Barker, Edward L. (See Govard, W. H., Barker, and Jenkins.)
- Barker, Frank C., St. Paul, Minn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,417,132; May 23.
- Barker, George R., Joliet, assignor to W. E. Pratt, Chicago, Ill. Automobile and carriage jack. No. 1,424,147; Aug. 1.
- Barker, Gerald, London, England. Universal shaft coupling. No. 1,429,271; Sept. 19.
- Barker, James, Philadelphia, assignor to M. E. Barker, Rydal, Pa. Making piston rings. No. 1,404,682; Jan. 24.
- Barker, Perry E. (See Barker, James, assignor.)
- Barker, Perry W., Youngstown, Ohio. Automatic feeder for presses. No. 1,422,914; July 18.
- Barker, Wendell A., deceased, by R. B. Ferreby, administrator, Elkhart, Ind. Chuck. No. 1,429,395; Sept. 19.
- Barker, Wendell A., deceased, by R. B. Ferreby, administrator, Elkhart, Ind. Chuck. No. 1,429,396; Sept. 19.
- Barker, William R. (See Raber, Harry C., assignor.)
- Barkley, Charles E., Fort William, Ontario, Canada. Play and ornamental ball. No. 1,438,573; Dec. 12.
- Barkmann, Henry, and A. Kutscha, Chicago, Ill. Auto-truck. No. 1,409,916; Mar. 21.
- Barkmann, Henry, and A. Kutscha, Chicago, Ill. Truck. No. 1,436,428; Nov. 21.
- Barks, Frank S., St. Louis, Mo. Dust guard for journal boxes. No. 1,406,816; Feb. 14.
- Barkschat, Henry. (See Gorrell, W. R., and Barkschat.)
- Barkschat, Henry, Los Angeles, Calif. Drum or mold clamp. No. 1,431,089; Oct. 3.
- Barkschat, Henry, assignor of one-half to E. B. Blinn, Los Angeles, Calif. Lantern construction. No. 1,421,058; June 27.
- Barksdale, George R., Stratford, Ontario, Canada. Disk-grinder attachment. No. 1,419,535; June 13.
- Barksdale, George R., Greenwood, S. C. Fluid-dispensing device. No. 1,434,982; Nov. 7.
- Barling, Walter H., Hasbrouck Heights, N. J. Spar. No. 1,405,889; Feb. 7.
- Barling, Walter H., Hasbrouck Heights, N. J. Aerofoil arrangement for aircraft. No. 1,405,890; Feb. 7.
- Barlow, Ernest, Foleshill, Coventry, England. Combined depth and angle gauge. No. 1,429,999; Sept. 26.
- Barlow, Herndon O., Los Angeles, Calif. Automatic surf-breaking apparatus. No. 1,423,640; July 25.

Alphabetical list of patentees—Continued.

- Barlow, Peter, Rochester, Minn. Snow skate. No. 1,428,676; Sept. 12.
- Barman, Louis M., Holborn, London, assignor to Roneo Limited, London, England. Inking device or attachment more particularly for use with addressing machines. No. 1,411,398; Apr. 4.
- Barna, Herman. (See Scherer, Robert, assignor.)
- Barnaby, Charles W., New York, N. Y. Typewriter. No. 1,428,130; Sept. 5.
- Barnard, Enoch A. (See Wilkinson, J. R., Barnard, and Booth.)
- Barnard, Samuel G. (See Dotzer, H., and Barnard.)
- Barnard, William G., Somerville, Mass. Endless belt. No. 1,411,602; Apr. 4.
- Barnard, Wirt R., Belleville, Kans. Combined animal operating table and scale. No. 1,404,173; Jan. 17.
- Barndt, Harvey P., Denver, Colo. Cherry pitter. No. 1,432,012; Oct. 17.
- Barner, John S., Colver, Pa. Engine. No. 1,406,330; Feb. 14.
- Barnes, Albert J. (See Boyd, F. C., and Barnes.)
- Barnes, Arthur T., assignor to E. R. Parks, Covington, Ky. Sign gate. No. 1,412,769; Apr. 11.
- Barnes, Charles, and A. A. Miller, Boone, Iowa. Carrying device. No. 1,412,035; Apr. 11.
- Barnes, Charles O., Hagerstown, Md. Mail-distributing apparatus. No. 1,410,446; Mar. 21.
- Barnes, Clarence E., Warren, Ohio. Gas governor. No. 1,406,817; Feb. 14.
- Barnes, Edwin, Sheffield, England. Spring. No. 1,419,005; June 6.
- Barnes, Elvis L., Oklahoma, Okla. Machine for loading cotton bales in cars. No. 1,404,335; Jan. 24.
- Barnes, Gaylord V., Alameda, Calif. Seat construction. No. 1,439,219; Dec. 19.
- Barnes, Harry F., Orange, N. J., assignor to American Telephone and Telegraph Company. Brake for rolling ladders. No. 1,431,921; Oct. 17.
- Barnes, John L., Whigville, Ohio. Derrick. No. 1,428,314; Sept. 5.
- Barnes, Orange P., Long Beach, Calif. Cooler and water filter. No. 1,432,522; Oct. 17.
- Barnes Scale Company. (See King, Bert W., assignor.)
- Barnett, Augusta, and M. I. Sternberg, Brooklyn, N. Y. Waterproof covering for hats. No. 1,418,354; June 6.
- Barnett, Jacob H., New York, N. Y. Trousers. No. 1,411,149; Mar. 28.
- Barnett, James. (See Craib, F., and Barnett.)
- Barnett, Morrison J., assignor to F. Mayer, San Francisco, Calif. Automobile signal. No. 1,432,826; Oct. 24.
- Barnett, Ralph L., Langeloth, Pa. Lubricating device. No. 1,424,974; Aug. 8.
- Barnett, Samuel, and Sons, Limited. (See Dakin, Herbert E., assignor.)
- Barnett & Wilson Investment Company. (See Price, Stephen C., assignor.)
- Barbette, Dudley P., jr., Baltimore, Md. Lithographic solution and treating lithographic plates. No. 1,433,111; Oct. 24.
- Barney, Edwin E. (See Barr, J. H., and Barney.)
- Barney, Edwin E., New Rochelle, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,411,603; Apr. 4.
- Barney, Edwin E., New Rochelle, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,411,604; Apr. 4.
- Barney, Edwin E., New Rochelle, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,425,825; Aug. 15.
- Barney, Edwin E., New Rochelle, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,431,558; Oct. 10.
- Barney, Edwin E., Newark, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,414,166; Apr. 25.
- Barney, Edwin E., Newark, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,430,208; Sept. 26.
- Barney, Fred H., Fort Worth, Tex., and D. S. Bowers, Tulsa, Okla. Safety combination connection clamp. No. 1,425,164; Aug. 8.
- Barney, Michael T., Los Angeles, Calif. Tire mold. No. 1,429,831; Sept. 19.
- Barney, Philip, Dollard, Manitoba, Canada. Animal poke. No. 1,423,706; July 25.
- Barney, Philip, Dollard, Manitoba, Canada. Hoisting drum. No. 1,436,375; Nov. 21.
- Barnhart, George H., Ouray, Colo. Map file. No. 1,416,661; May 16.
- Barnhart, John W., Columbus, Ohio. Figure wheeled toy. No. 1,424,437; Aug. 1.
- Barnickel, William S., St. Louis, Mo. Apparatus for treating natural emulsions of petroleum. No. 1,428,204; Sept. 5.
- Barnitz, Richard H., Washington, D. C. Mail-bag catcher. No. 1,416,932; May 23.
- Barns, James F., New Hampshire, Ohio. Corn hook. No. 1,403,002; Jan. 10.
- Barnsdale, John G., Superior, Wis. Method and means for applying motive power to vehicles. No. 1,413,955; Apr. 25.
- Barnstead, Sidney G., Cambridge, Mass. Condenser. No. 1,411,150; Mar. 28.
- Barnum, Starr II. (See Curry, M., and Barnum.)
- Barnum, William T., Chicago, Ill. Portable lamp. No. 1,412,036; Apr. 11.
- Barnwell, Harry T., assignor to The Newell Mfg. Co., Inc., Ogdensburg, N. Y. Curtain-rod bracket. No. 1,405,891; Feb. 7.
- Baron, Henry, Mayenne, France. Jack. No. 1,430,144; Sept. 26.
- Baron, Max D., New York, assignor to Wittenman Brothers, Brooklyn, N. Y. Making paper containers. No. 1,413,251; Apr. 18.
- Barr, Archibald, and W. Stroud, Anniesland, Glasgow, assignors to Barr and Stroud, Limited, Glasgow, Scotland. Instrument for use in testing torpedoes. No. 1,404,422; Jan. 24.
- Barr, Archibald, and W. Stroud, assignors to Barr and Stroud, Limited, Anniesland, Glasgow, Scotland. Range finder and like instrument for use on shipboard. No. 1,425,742; Aug. 15.
- Barr, Clifford A., Lincoln, Nebr. Concrete mold. No. 1,408,246; Feb. 28.
- Barr, Edwin L. (See Porter, Burton C., assignor.)
- Barr, John H. (See Jones, T. D., and Barr.)
- Barr, John H., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,407,509; Feb. 21.
- Barr, John H., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,413,312; Apr. 18.
- Barr, John H., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,414,167; Apr. 25.
- Barr, John H., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,418,901; June 6.
- Barr, John H., New York, N. Y., and E. E. Barney, Newark, N. J., assignors to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,433,112; Oct. 24.
- Barr, John W. (See Kaucher, R. W., and Barr.)
- Barr, Lester S., Washington, D. C. Typewriting machine. No. 1,434,422; Nov. 7.
- Barr, Louis E., Pittsburgh, Pa. Insulated rail joint. No. 1,436,468; Nov. 21.
- Barr, Mary, executrix. (See Jones T. D., and Barr.)
- Barr, N. Rogers, et al., trustees. (See Kluefer, Guy L., assignor.)
- Barr, Samuel C., Chillicothe, Ohio. Vending machine. No. 1,416,159; May 16.
- Barr, Stevenson E., Tacoma, Wash. Combined thimble and stovepipe holder. No. 1,421,359; July 4.
- Barr and Stroud, Limited. (See Barr, A., and Stroud, assignors.)
- Barraclough, Abraham, Gallup, N. Mex. Handbrake for railway cars. No. 1,436,636; Nov. 28.
- Barraco, Paul J. (See Humason, G. A., and Barraco.)
- Barrance, Charles, assignor of one-half to T. Dobson, Leek, England. Steam pump. No. 1,437,704; Dec. 5.
- Barratt, Haentjens & Company. (See Haentjens, Otto, assignor.)
- Barratt, William G., Stoke-on-Trent, England. Teapot and colicpot. No. 1,416,321; May 16.
- Barratt, William T., Bennington, Vt., assignor to C. S. Kehoe, A. Cooper, and A. J. Cooper, executors of C. Cooper, deceased. Sink wheel for knitting machines. No. 1,435,196; Nov. 14.
- Barrell Holding and Manufacturing Company. (See Ratzburg, Victor P., assignor.) (Reissue.)
- Barrett, Arthur M. (See Childress, William, assignor.)
- Barrett, Arthur M., Winnetka, Ill. Truck. No. 1,416,674; May 23.
- Barrett, Arthur M., Winnetka, Ill. Truck. No. 1,416,675; May 23.
- Barrett, Arthur M., Winnetka, Ill. Lifting truck. No. 1,428,522; Sept. 12.
- Barrett, Arthur M., Winnetka, W. Childress, Oak Park, and F. Troit, Harvey, Ill., assignors to said Barrett. Lifting truck. No. 1,428,523; Sept. 12.
- Barrett, Charles D., New York, N. Y. Spring-recoil absorber for automobiles. No. 1,404,423; Jan. 24.
- Barrett, Charles G., Brookline, Mass., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Internal-combustion engine. No. 1,415,858; May 16.
- Barrett, Charles S., Denver, Colo. Aeroplane. No. 1,402,205; Jan. 3.
- Barrett Company, The. (See Bailey, G. C., and Craver, assignors.)
- Barrett Company, The. (See Bailey, G. C., Fischer, and Schulze, assignors.)
- Barrett Company, The. (See Binkley, Kenneth L., assignor.)
- Barrett Company, The. (See Dodge, Frank E., assignor.)
- Barrett Company, The. (See Gould, David F., assignor.)
- Barrett Company, The. (See Miller, Stuart P., assignor.)
- Barrett Company, The. (See Murphy, W. B., and Dunning, assignors.)
- Barrett Company, The. (See Perry, Ray P., assignor.)
- Barrett Company, The. (See Phillips, Ralph O., assignor.)

- Barrett Company, The. (See Reeve, Charles S., assignor.)
- Barrett Company, The. (See Rhodes, F. H., and Roberts, assignors.)
- Barrett Company, The. (See Schulze, John F. W., assignor.)
- Barrett Company, The. (See Snyder, Edward B., assignor.) (Reissue.)
- Barrett Company, The. (See Swenson, George E., assignor.)
- Barrett Company, The. (See Weisberg, L., and Potter, assignors.)
- Barrett Company, The. (See Weisberg, Louis, assignor.)
- Barrett Company, The. (See Weiss, John M., assignor.)
- Barrett Company, The. (See Williams, Arthur G., assignor.)
- Barrett, Ernest D., New York, N. Y. Primer for gasoline engines. No. 1,410,641; Mar. 28.
- Barrett, George L., St. Louis, Mo. Repairing scored cylinder walls. No. 1,404,001; Jan. 17.
- Barrett, Hiram A., Knoxville, Ill. Tank heater. No. 1,408,680; Mar. 7.
- Barrett, Hiram A., Knoxville, Ill. Tank heater. No. 1,408,681; Mar. 7.
- Barrett, Hiram A., Knoxville, Ill. Tank heater. No. 1,408,682; Mar. 7.
- Barrett, Hollis J., La Grange, Ill. Chair or seat. No. 1,419,006; June 6.
- Barrett, Kenneth T., Pittsfield, Mass. Clothesrack. No. 1,419,007; June 6.
- Barrett, Leo M. (See Willis, Charles, assignor.)
- Barrett, Thomas, assignor of one-twentieth to W. M. Murphy, Pasadena, Calif. Airship. No. 1,427,998; Sept. 5.
- Barrett, Thomas P., St. Louis, Mo. Game. No. 1,408,065; Feb. 28.
- Barrett, William J., Bridgeport, Conn. Deflection indicator. No. 1,427,773; Sept. 6.
- Barrier, Ralph W., Indianapolis, Ind. Laundry assorting apparatus. No. 1,405,964; Feb. 7.
- Barrier, Ralph W., Indianapolis, Ind. Laundry, bundling, packing, and wrapping device. No. 1,416,160; May 18.
- Barringer, Lawrence E., Schenectady, N. Y., assignor to General Electric Company. Cementing and protecting composition. No. 1,423,985; July 25.
- Barringer, Lawrence E., Schenectady, N. Y., assignor to General Electric Company. Molded material and preparation. No. 1,439,991; Dec. 26.
- Barron, Andrew J., Cincinnati, Ohio, assignor to The Cincinnati Horse Shoe & Iron Company. Spring suspension for automobiles. No. 1,432,231; Oct. 17.
- Barron, Garratt. (See Garratt, S., Barron, and Garratt.)
- Barron, Grover C., Gainesville, Ga. Dishwashing machine. No. 1,438,680; Dec. 12.
- Barron, Langdon S., assignor of one-half to B. Richter, St. Louis, Mo. Shoe heel. No. 1,424,975; Aug. 8.
- Barron, Neil M., New Beckenham, England. Sand filter. No. 1,411,201; Mar. 28.
- Barron, William L., New York, N. Y., assignor to The Singer Manufacturing Company. Button-sewing machine. No. 1,405,477; Feb. 7.
- Barron, William L., Newark, N. J., assignor to The Singer Manufacturing Company. Button clamp for sewing machines. No. 1,415,426; May 9.
- Barron, William L., Newark, N. J., assignor to The Singer Manufacturing Company. Button-sewing machine. No. 1,429,919; Sept. 26.
- Barrow, John C., Philadelphia, Pa. Hand warmer. No. 1,429,397; Sept. 19.
- Barrow, Thaddeus J., Riverside, Calif. Street-car truck. No. 1,412,383; Apr. 11.
- Barrow, Thaddeus J., Riverside, Calif. Under-tree plow. No. 1,419,102; June 6.
- Barrows, Allan S., Chicago, Ill. Fire door or shutter. No. 1,421,146; June 27.
- Barrows, Donald S., Rochester, N. Y. Furnace. No. 1,416,438; May 16.
- Barrows, Donald S., Rochester, N. Y. Wind bung for melting furnaces. No. 1,416,439; May 16.
- Barrows, Donald S., Rochester, assignor to The T. H. Symington Company, New York, N. Y. Cheek plate. No. 1,407,978; Feb. 28.
- Barrows, Donald S., Rochester, assignor to The T. H. Symington Company, New York, N. Y. Draft rigging. No. 1,431,717; Oct. 10.
- Barrows, Evander J., Fort Wayne, Ind. Sterilizer. No. 1,437,882; Dec. 5.
- Barrows, George S., assignor to General Fire Extinguisher Company, Providence, R. I. Hydrocarbon heater. No. 1,408,433; Mar. 7.
- Barrows, George S., assignor to General Fire Extinguisher Company, Providence, R. I. Gas mixer. No. 1,437,883; Dec. 5.
- Barrows, Harry E., assignor to Dillingham Manufacturing Company, Sheboygan, Wis. Folding chair. No. 1,423,594; July 25.
- Barrows, Leon D., New York, N. Y., assignor to American Telephone and Telegraph Company. Intercommunicating system. No. 1,410,545; Mar. 28.
- Barrows, Nathaniel H. (See Susl, D. M., and Barrows.)
- Barrows, Walter A., Belvidere, Ill. Truss. No. 1,408,683; Mar. 7.
- Barry, Charles A., Detroit, Mich. Stud driver. No. 1,425,359; Aug. 8.
- Barry Company. (See Barry, Thomas F., assignor.)
- Barry, David, et al. (See Haws, William H., assignor.)
- Barry Drum Manufacturing Company. (See Barry, William A., assignor.)
- Barry, Elizabeth, Portland, Oreg. Doll. No. 1,428,677; Sept. 12.
- Barry, Gerald G., Chicago, Ill. Cushion wheel. No. 1,404,424; Jan. 24.
- Barry, Gerald G., Chicago, Ill. Wheel. No. 1,422,167; July 11.
- Barry, Gerald G., Chicago, Ill. Metal wheel. No. 1,422,168; July 11.
- Barry, Gerald G., Chicago, Ill. Rim for vehicle tires. No. 1,425,826; Aug. 15.
- Barry, Gerald G., Chicago, Ill. Vehicle wheel. No. 1,432,048; Oct. 17.
- Barry, James, Grafton, assignor of one-half to H. Weller, Fresno, Calif. Railway tie. No. 1,435,273; Nov. 14.
- Barry, James J., assignor to L. Pickert Fish Company, East Boston, Mass. Machine for separating flesh from the skin and bones of fish. No. 1,415,296; May 9.
- Barry, James T., Chicago, Ill. Pipe or conduit hanger. No. 1,416,679; May 23.
- Barry, John E. (See Le Merle, F. G., Ullman, and Barry.)
- Barry, Lester A., Kemmerer, Wyo. Cleaning and lubricating device for commutators. No. 1,412,647; Apr. 11.
- Barry, Philip D., Miami, Ariz. Oil trap and heating device. No. 1,428,205; Sept. 5.
- Barry, Redmond F., Republic, Wash. Saw gummer. No. 1,419,103; June 6.
- Barry, Thomas F., assignor to Barry Company, Muscatine, Iowa. Split loose pulley bushing. No. 1,421,377; July 4.
- Barry, William A., Oklahoma, Okla. Safety razor. No. 1,409,917; Mar. 21.
- Barry, William A., assignor to Barry Drum Manufacturing Company, Philadelphia, Pa. Tambourine. No. 1,434,278; Oct. 31.
- Barsch, Wilhelm, Lucerne, Switzerland. Artificial bait. No. 1,427,147; Aug. 29.
- Barshatsky, Isidore, Roxbury, Mass. Shoe. No. 1,413,888; Apr. 25.
- Barshatsky, Isidore, Roxbury, Mass. Metallic heel for shoes. No. 1,413,889; Apr. 25.
- Barson, Harry W., assignor to Ode D. Jennings, Chicago, Ill. Coin-selecting device. No. 1,403,933; Jan. 17.
- Barstow, Welch, assignor to T. F. Ryan, Spokane, Wash. Method and combustion apparatus. No. 1,436,076; Nov. 21.
- Barszczewski, Maryan B., Cleveland, Ohio. Demountable rim. No. 1,416,440; May 16.
- Barta, Otto, New York, N. Y. Sterilizer for instruments and dressings. No. 1,421,893; July 4.
- Bartell, William L., deceased, Portland, Oreg., by Mrs. I. Cook, administratrix, Willamette, Oreg. Undercutter. No. 1,420,234; June 20.
- Bartels, John H., St. Louis, Mo. Steam condenser. No. 1,420,402; June 20.
- Bartelt, Arthur H., Milwaukee, Wis. Wrench. No. 1,406,331; Feb. 14.
- Bartelt, Friedrich L., Corston Lodge, near Bristol, England. Apparatus for washing and treating fibers, yarns, fabrics, and the like. No. 1,409,271; Mar. 14.
- Bartelt, Walter C., Thiensville, Wis. Building block and wall construction. No. 1,422,814; July 18.
- Bartenstein, John J., Cleveland, Ohio, assignor to The Fairmount Tool and Forging Company. Adjustable spanner wrench. No. 1,417,792; May 30.
- Bartezki, Emil A., St. Louis, Mo. Dog-operating device. No. 1,439,992; Dec. 26.
- Barth, Curt, Hamburg, Germany. Machine-cutting spur and helical wheels. No. 1,429,398; Sept. 19.
- Barth, Karl, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Self-unloading car. No. 1,408,334; Feb. 28.
- Barth, Karl, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Self-discharging car. No. 1,410,154; Mar. 21.
- Barth, Karl, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Self-discharging car. No. 1,421,378; July 4.
- Barth, Karl, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Self-discharging car. No. 1,428,131; Sept. 5.
- Bartha, Julius, and A. E. Glassmann, New York, assignors to Glassmann-Bartha Welding Corp., New York, N. Y. Propeller. No. 1,417,486; May 30.
- Barthel, Oliver E., Detroit, Mich. Monorail truck. No. 1,432,655; Oct. 17.
- Bartholdy, Max, Karlskoga, Sweden, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Surface gauge. No. 1,404,425; Jan. 24.
- Bartholdy, Max, Karlskoga, Sweden, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Hole gauge. No. 1,420,951; June 27.
- Bartholdy, Max, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Indicating-lever-limit gauge. No. 1,422,169; July 11.
- Bartholdy, Max, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Measuring instrument. No. 1,425,438; Aug. 8.
- Bartholdy, Max, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Inside gauge. No. 1,429,556; Sept. 19.

Alphabetical list of patentees—Continued.

- Bartholomäus, Rudolf, Berlin, Germany. Means for drilling polygonal holes. No. 1,423,072; July 18.
- Bartholome, Charles L., Terre Haute, Ind. Clamping device for clotheslines. No. 1,425,313; Aug. 8.
- Bartholomew, Ralph, Avon, N. Y. Stretcher cot for automobiles. No. 1,413,890; Apr. 25.
- Bartholomew, William. (See Kamper, L. H., Adland, and Bartholomew.)
- Bartholomew, William, assignor to Troy Laundry Machinery Co. Ltd., Chicago, Ill. Centrifugal machine. No. 1,425,628; Aug. 15.
- Bartholomew, William, assignor to Troy Laundry Machinery Company, Ltd., Chicago, Ill. Gear mechanism for laundry machines. No. 1,430,209; Sept. 26.
- Bartholomew, William, assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Lubricating mounting for centrifugal machines. No. 1,432,095; Oct. 17.
- Bartholomew, William, assignor to Troy Laundry Machinery Company, Ltd., Chicago, Ill. Lubricator for step bearings for extractors. No. 1,437,486; Dec. 5.
- Bartholomew, William, and G. Simons, assignors to Troy Laundry Machine Co., Ltd., Chicago, Ill. Cylinder washing machine. No. 1,437,038; Nov. 28.
- Bartle, George, S. Glickman, and L. Jacobitz, New York, N. Y. Fountain pen. No. 1,427,711; Aug. 29.
- Bartlebaugh, Benjamin C., Wheeling, W. Va. Gas heater. No. 1,403,730; Jan. 17.
- Bartlebaugh, Benjamin C., Wheeling, W. Va. Convertible chair. No. 1,415,767; May 9.
- Bartleson, Thomas L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making phosphorus oxychloride. No. 1,424,193; Aug. 1.
- Bartlett, Charles A., and D. W. Schoenthal, McMinnville, Oreg. Caster. No. 1,435,371; Nov. 14.
- Bartlett, Frank W. (See Cunningham, C. A., Christensen, and Bartlett.)
- Bartlett, Harry D., Chicago, Ill. Coal-handling device. No. 1,423,986; July 25.
- Bartlett Hayward Company, The. (See Walker, Thatcher W., assignor.)
- Bartlett, Henry B., assignor to B. F. Perkins & Son, Inc., Holyoke, Mass. Weighing mechanism. No. 1,415,915; May 16.
- Bartlett, Kent W., Hammond, Ind. Mixing apparatus. No. 1,428,315; Sept. 5.
- Bartlett, Leonard, assignor to Reliance Machine & Specialty Co., Boston, Mass. Rear automobile signal. No. 1,402,828; Jan. 10.
- Bartlett, Samuel O., New York, N. Y. Calendar. No. 1,421,379; July 4.
- Bartlett, William D., and S. Marquis, assignors of one-fourth to C. E. Thompson and one-fourth to J. A. Krider, Cleveland, Ohio. Pump. No. 1,402,719; Jan. 3.
- Bartlett, William D., and S. Marquis, assignors of one-fourth to C. E. Thompson and one-fourth to J. A. Krider, Cleveland, Ohio. No. 1,402,720; Jan. 3.
- Bartol, George E., Jr., Philadelphia, Pa., assignor to C. Howard Hunt Pen Company, Camden, N. J. Manufacturing pens with angular nibs. No. 1,437,631; Dec. 5.
- Bartoli, Joe J., Stockton, Calif. Emergency fuel, oil, and water attachment for motor vehicles. No. 1,405,089; Jan. 31.
- Bartolowich, Jerome, Oakland, Calif. Musical toy. No. 1,417,019; May 23.
- Barton, Archilles A., Glendale, Calif. Bucket for deep-well pumps. No. 1,430,145; Sept. 26.
- Barton, Archilles A., Glendale, Calif. Pump. No. 1,435,793; Nov. 14.
- Barton, Charles N., assignor of one-third to W. Peek and one-third to J. W. Langley, Indianapolis, Ind. Sectional machinery repair washer. No. 1,418,052; May 30.
- Barton, Edward D., Canon City, Colo. Rope or strap fastener. No. 1,426,535; Aug. 22.
- Barton, Edward H., Sprague, Wash. Corn popper. No. 1,402,135; Jan. 3.
- Barton, Ernest L., Chester, S. C. Fireback. No. 1,431,209; Oct. 10.
- Barton, Francis M., assignor to Barton Spider-Web System, Chicago, Ill. Metallic reinforcement for concrete structures. No. 1,440,127; Dec. 26.
- Barton, Henry L., Gary, Ind. Excavator. No. 1,416,933; May 23.
- Barton, John W., Flint, Mich. Pressure valve. No. 1,414,323; Apr. 25.
- Barton, John W., Flint, Mich. Bench tire tool. No. 1,415,916; May 16.
- Barton, Kirtland C., National City, Ill. Machine for stripping oil cakes. No. 1,430,613; Oct. 3.
- Barton, Louis E., Niagara Falls, N. Y., assignor, by mesne assignments, to Titanium Pigment Company, Inc. Producing composite titanic-oxide products. No. 1,409,648; Mar. 14.
- Barton, Robert W., Chicago, Ill. Propeller-controlling mechanism. No. 1,420,619; June 27.
- Barton Spider-Web System. (See Barton, Francis M., assignor.)
- Barton, Thomas, East Orange, N. J. Time and distance recording device. No. 1,404,683; Jan. 24.
- Barton, Vincent, Port Angeles, Wash. Rod cutter. No. 1,438,888; Dec. 12.
- Barton, Warren D., Waco, Tex. Ice-holding device. No. 1,410,238; Mar. 21.
- Barton, William L., assignor of forty-five per cent to J. L. Kerr, Vancouver, British Columbia, Canada. Overhead-wire transport system. No. 1,422,650; July 11.
- Barton, William L., assignor of forty-five per cent to J. L. Kerr, Vancouver, British Columbia, Canada. Overhead track line. No. 1,425,827; Aug. 15.
- Barton, William L., assignor of forty-five per cent to J. L. Kerr, Vancouver, British Columbia, Canada. Overhead carriage. No. 1,433,926; Oct. 31.
- Bartos, Frank, assignor of one-half to S. C. Ashby, Jr., Helena, Mont. Landing net. No. 1,416,543; May 16.
- Bartos, Joseph A., Salem, Oreg. Hammer. No. 1,408,162; Feb. 28.
- Baruch, Samuel, New York, N. Y. Cooler for internal-combustion-engine radiators. No. 1,411,900; Apr. 4.
- Baruch, Samuel, New York, N. Y. Box-strap seal. No. 1,424,976; Aug. 8.
- Baruch, Sydney N., San Francisco, Calif. Pulse amplifier. No. 1,403,384; Jan. 10.
- Baruch, Sydney N., San Francisco, Calif. Apparatus for producing therapeutical effects. No. 1,425,743; Aug. 15.
- Baruch, Sydney N., San Francisco, Calif. Electric-circuit-protecting device. No. 1,427,255; Aug. 29.
- Barwell, John W., assignor to Blatchford Calf Meal Company, Waukegan, Ill. Food product and making same. No. 1,409,435; Mar. 14.
- Barwell, John W., J. Ward, N. Nelson, J. Hingher, W. E. Booth, and W. L. Blows, assignors to Blatchford Calf Meal Company, Waukegan, Ill. Feeding apparatus. No. 1,418,267; May 30.
- Barzen, Richard G., Kansas City, Mo. Heat-controlling device. No. 1,416,544; May 16.
- Baschy, Heinrich, Hamburg, Germany. Apparatus for cleaning metal walls, tubes, floors, and the like. No. 1,404,082; Jan. 17.
- Bash, Charles, Brookline, Mass. Toilet-paper holder. No. 1,420,403; June 20.
- Bash Oil and Refining Company. (See Hoge, Daniel W., assignor.)
- Bash, Roy F., Findlay, Ohio. Water and oil proof housing for timer wires. No. 1,435,098; Nov. 7.
- Bashara, Samuel E., Houston, Tex. Means for locking valves. No. 1,421,059; June 27.
- Basher, Richard T., Giroux Lake, Ontario, Canada. Can-piercing tool. No. 1,407,830; Feb. 28.
- Bashium, Harrison C. (See Gruber, P., and Bashium.)
- Bashore, Louis L. S., Marine City, Mich. Chalk holder. No. 1,427,712; Aug. 29.
- Basic Products Corporation. (See Popper, Isaac C., assignor.)
- Basile, Robert. (See Waney, Aloysius, assignor.)
- Basinger, Perry. (See Wilson, Samuel J., assignor.)
- Baskin, Edwin T., Kansas City, Mo. Laundry device. No. 1,425,828; Aug. 15.
- Basle, Charles L., Los Angeles, Calif. Gasoline feed for internal-combustion engines. No. 1,408,163; Feb. 28.
- Basley, Harvey V., Jersey City, N. J. Safety clasp. No. 1,415,509; May 9.
- Bason, George F., Brooklyn, N. Y. Portable lamp. No. 1,403,378; Jan. 10.
- Bass, B. & J., Incorporated. (See Negbaur, Harry, assignor.)
- Bass, Earl H., Derby, Iowa. Cleat for tractor wheels. No. 1,417,020; May 23.
- Bass, G. H., & Company. (See Llewellyn, Ernest A., assignor.)
- Basset, Lucien P., Paris, France. Making iron or steel. No. 1,419,801; June 13.
- Basset, Lucien P., Paris, France. Direct manufacture of iron and steel. No. 1,435,686; Nov. 14.
- Bassett, Alvin J. (See Sharp, J. E., and Bassett.)
- Bassett, Ben H. (See Warman, Ora J., assignor.)
- Bassett, Bert L. (See Abbott, C. C., and Bassett.)
- Bassett, Bert L. (See Abbott, C. C., and W. E., B. L. and I. L. Bassett.)
- Bassett, Harold S., and A. J. Tanner, North Haven, Conn. Holder for metal tickets and the like. No. 1,411,252; Apr. 4.
- Bassett, Harry P., Cynthia, Ky. Bleaching cotton. No. 1,402,040; Jan. 3.
- Bassett, Harry P., Cynthia, Ky. Producing alumina and potash. No. 1,404,083; Jan. 17.
- Bassett, Harry P., Cynthia, Ky. Production of magnesia. No. 1,405,388; Feb. 7.
- Bassett, Harry P., Cynthia, Ky. Producing alumina and potash. No. 1,410,642; Mar. 28.
- Bassett, Harry P., Cynthia, Ky. Separating mixtures of salts. No. 1,436,228; Nov. 21.
- Bassett, Irvin L. (See Abbott, C. C., and Bassett, assignors.)
- Bassett, Irvin L. (See Abbott, C. C., and W. E., B. L., and I. L. Bassett.)
- Bassett, John, G. E. D. Seale, and G. Davidson, Hokitika, New Zealand. Automobile heater. No. 1,434,423; Nov. 7.
- Bassett, Preston R., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Glass front for searchlights. No. 1,403,889; Jan. 17.
- Bassett, Preston R., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Concentrated flaming arc lamp for projectors. No. 1,428,510; Sept. 5.
- Bassett, Reuben T. (See Crossley, Albert D., assignor.)

- Bassett, Robert N., Company. (See Bradshaw, Charles E., assignor.)
- Bassett, Robert N., Company. (See Caligan, William L., assignor.)
- Bassett, Robert S., Buffalo, N. Y. Liquid meter. No. 1,413,214; Apr. 18.
- Bassett, Walter E., Muskegon, Mich. Mat-holding device. No. 1,411,469; Apr. 4.
- Bassett, Willard E. (See Abbott, C. C., and Bassett.)
- Bassett, Willard E. (See Abbott, C. C., and W. E. B. L., and I. L. Bassett.)
- Bassette, John G. (See Hibbard, R. B., Watrous, and Bassette.)
- Bassette, John G., assignor to Airdry Corporation, Groton, N. Y. Drying machine. No. 1,419,712; June 13.
- Bassford, George W., et al. (See Henry, W., and Bassford, assignors.)
- Bassford, Isaac. (See Henry, W., and Bassford.)
- Bassford, William K., Metuchen, N. J. Safety device for oil heaters and lamps. No. 1,423,132; Sept. 6.
- Bassick Company, The. (See Bassick, Frederick C., assignor.)
- Bassick Company, The. (See Claud-Mantle, Arthur, assignor.)
- Bassick Company, The. (See Diss, Albert B., assignor.)
- Bassick Company, The. (See Diss, Daniel B., assignor.)
- Bassick Company, The. (See Herold, Walter F., assignor.)
- Bassick Company, The. (See Moore, Raymond G., assignor.)
- Bassick, Frederick C., assignor to The Bassick Company, Bridgeport, Conn. Cabinet latch. No. 1,412,599; Aug. 11.
- Bassick Manufacturing Company, The. (See Arthur V. Gullborg, assignor.)
- Bassick Manufacturing Company, The. (See Pesler, Douglas F., assignor.)
- Bassick Manufacturing Company, The. (See Piquerez, Emile, assignor.) (Reissue.)
- Bastian, Arthur J., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Forming laminated rods. No. 1,431,922; Oct. 17.
- Bastian-Blessing Company, The. (See Bastian, C. L., and Mathisen, assignors.)
- Bastian, Charles L., Chicago, Ill. Fluid-pressure-regulating valve. No. 1,408,923; Mar. 7.
- Bastian, Charles L., Chicago, Ill. Fluid-pressure-regulating valve. No. 1,408,924; Mar. 7.
- Bastian, Charles L., Chicago, Ill. Fluid-pressure-regulating valve. No. 1,408,925; Mar. 7.
- Bastian, Charles L., Chicago, Ill. Fluid-pressure-regulating valve. No. 1,408,926; Mar. 7.
- Bastian, Charles L., and H. Mathisen, assignors to The Bastian-Blessing Company, Chicago, Ill. Dispensing valve. No. 1,423,744; Sept. 12.
- Bastin, L. A., et al. (See Hull, Horace, assignor.)
- Batchelder, Asa F., Schenectady, N. Y., assignor to General Electric Company. Power transmission and electric braking. No. 1,421,894; July 4.
- Batchelder, Asa F., Schenectady, N. Y., assignor to General Electric Company. Resilient wheel. No. 1,423,299; July 18.
- Batchelor, Charles L., Portland, Oreg. Automobile fender. No. 1,414,930; May 2.
- Batchelor, Charles L., Portland, Oreg. Bed. No. 1,415,978; May 16.
- Batchelor, Harold, Jersey City, N. J. Locking means for nuts, bolts, and the like. No. 1,423,746; July 25.
- Batchelor, Harold, Jersey City, N. J., assignor of one-half to H. C. Abell, New York, N. Y. Locking device for lubricating cups. No. 1,412,993; Apr. 18.
- Batchelor, Horton, Boston, Mass. Desulphurizing ores and producing a combustible gas. No. 1,403,283; Jan. 10.
- Batdorf, Charles S., Brooklyn, N. Y. Machine for making paper cups. No. 1,420,808; June 27.
- Bate, John W., Racine, Wis. Extension handle. No. 1,420,809; June 27.
- Bate, John W., Racine, Wis. Collapsible handle. No. 1,426,809; Aug. 22.
- Bateman, Arthur R., Lynchburg, Va. Aligning instrument for crosshead guide bars. No. 1,421,895; July 4.
- Bateman, St. Elmo, Los Angeles, Calif. Fumigating apparatus. No. 1,426,536; Aug. 22.
- Bateman, Samuel F., El Dorado, Ark. Sand trap for oil-well pumps. No. 1,430,146; Sept. 26.
- Bateman, William H., London, England. Separator employed for the separation of liquids of different density. No. 1,421,658; July 4.
- Batenburg, Peter J. F., Clintonville, Wis. Driving and steering axle. No. 1,407,911; Feb. 28.
- Bater, Montague R., N. P. Svendsen, D. T. Trump, and R. M. Mahoney, Calgary, Alberta, Canada. Electrically-operated signal for automobiles. No. 1,437,086; Nov. 28.
- Bates, Adelmor M., assignor to Bates Valve Bag Company, Chicago, Ill. Wire tie and seal making and applying tool. No. 1,429,920; Sept. 26.
- Bates, Adelmor M., assignor to Bates Valve Bag Company, Chicago, Ill. Filling barrels. No. 1,434,583; Nov. 7.
- Bates, Adelmor M., assignor to Bates Valve Bag Company, Chicago, Ill. Bag-tying tool. No. 1,434,584; Nov. 7.
- Bates, Adelmor M., assignor to Bates Valve Bag Company, Chicago, Ill. Machine for printing bag blanks. No. 1,436,077; Nov. 21.
- Bates, Adelmor M., assignor to Bates Valve Bag Company, Chicago, Ill. Wire-tying tool. No. 1,436,637; Nov. 28.
- Bates Arthur, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,419,201; June 13.
- Bates, Arthur, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Upper-shaping machine. No. 1,419,202; June 13.
- Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,419,203; June 13.
- Bates, Arthur, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Upper-shaping machine. No. 1,419,204; June 13.
- Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Upper-forming machine. No. 1,425,503; Aug. 15.
- Bates, Arthur, Leicester, England, assignor by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Upper-shaping machine. No. 1,426,342; Aug. 22.
- Bates, Arthur, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for attaching uppers to soles in the manufacture of shoes. No. 1,426,343; Aug. 22.
- Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Upper-pulling machine. No. 1,430,529; Oct. 3.
- Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting machine. No. 1,436,691; Nov. 28.
- Bates, C. J., and Sons. (See Davis, Henry E., assignor.)
- Bates, Clarence A., and E. Fults, Canastota, N. Y. Screw driver. No. 1,424,275; Aug. 1.
- Bates, E. V., Machine Co. (See Bates, Eddo V., assignor.)
- Bates, Eddo V., assignor to E. V. Bates Machine Co., Lowell, Mass. Wool card. No. 1,433,927; Oct. 31.
- Bates, Edith M., New York, N. Y., and M. Wheeler, Los Angeles, Calif. Pin-attached snap fastener. No. 1,438,889; Dec. 12.
- Bates, Edmund C., assignor to The Buckeye Jack Manufacturing Company, Alliance, Ohio. Lifting jack. No. 1,430,350; Sept. 26.
- Bates, George B., Lynn, Mass. Mixing apparatus. No. 1,434,585; Nov. 7.
- Bates, George E., Syracuse, N. Y. Direction indicator for vehicles. No. 1,407,831; Feb. 28.
- Bates, Harry. (See Kidder, Wellington P., assignor.)
- Bates, Harry, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,415,138; May 9.
- Bates, Harry, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,427,345; Aug. 29.
- Bates, Harry, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,427,346; Aug. 29.
- Bates, Harry, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,428,832; Sept. 12.
- Bates, Harry H., assignor to Bates Machine & Tractor Company, Joliet, Ill. Tractor. No. 1,406,332; Feb. 14.
- Bates, Harry H., assignor to Bates Machine and Tractor Company, Joliet, Ill. Tractor. No. 1,436,376; Nov. 21.
- Bates, Henry L., Boston, Mass. Foldable rack. No. 1,407,912; Feb. 28.
- Bates, James N. (See Knowles, M. M., and Bates.)
- Bates, Joseph S., Bridgeport, Conn., assignor to The National Aniline & Chemical Company, Inc., New York, N. Y. Scraper for rotary filters. No. 1,415,859; May 16.
- Bates, Lindon W., Mount Lebanon, N. Y. Apparatus for agitating and heating mobile material. No. 1,406,818; Feb. 14.
- Bates Machine & Tractor Company. (See Bates, Harry H., assignor.)
- Bates, Richard S., Sterling, Colo. Road grader. No. 1,405,256; Jan. 31.
- Bates, Thomas F., Shelbyville, Tenn. Dental instrument holder. No. 1,406,143; Feb. 7.
- Bates Valve Bag Company. (See Bates, Adelmor M., assignor.)
- Bath, John, assignor to John Bath & Company, Worcester, Mass. Adjustable plug gauge. No. 1,429,183; Sept. 12.
- Bath, John, assignor to John Bath & Co., Inc., Worcester, Mass. Ring gauge. No. 1,438,681; Dec. 12.
- Bath, John, and R. H. C. Grunewald, Worcester, Mass., assignor to John Bath & Co. Inc. Thread grinder. No. 1,438,682; Dec. 12.
- Bath, John, & Co. (See Bath, J., and Grunewald, assignors.)
- Bath, John, & Co. (See Bath, John, assignor.)
- Bath, John, & Company. (See Clifford, H. F., and Grunewald, assignors.)
- Bathgate, Owen H. (See Stevenson, W. W., and Bathgate.)
- Bathurst Manufacturing Company. (See Bathurst, Thomas T., assignor.) (Reissue.)

Alphabetical list of patentees—Continued.

- Bathurst, Thomas T., Kansas City, Mo. Spark plug. No. 1,430,429; Sept. 26.
- Bathurst, Thomas T., assignor to Bathurst Manufacturing Company, Kansas City, Mo. Spark plug. (Reissue.) No. 15,276; Jan. 31.
- Batie, Joseph E., assignor to Kelsey Wheel Company, Detroit, Mich. Felly-forming machine. No. 1,416,676; May 23.
- Batie, Joseph E., assignor to Kelsey Wheel Company, Detroit, Mich. Machine for engaging ferrules with wheel spokes. No. 1,416,677; May 23.
- Batie, Joseph E., assignor to Kelsey Wheel Company, Inc., Detroit, Mich. Apparatus for manufacturing vehicle wheels. No. 1,416,678; May 23.
- Batla, Thomas H., and H. J. Holan, Temple, Tex. Cotton-stalk cutter and insect killer. No. 1,427,931; Sept. 5.
- Battaglia, Sam, Brooklyn, N. Y. Leg block. No. 1,406,144; Feb. 7.
- Battelle, Gordon. (See Waring, William G., assignor.)
- Battelle, Gordon, H. M. Runkle, and W. B. Tobin, assignors to The International Derrick and Equipment Company, Columbus, Ohio. Derrick structure for oil, gas, and artesian wells. No. 1,439,786; Dec. 26.
- Battersby, Gertrude B., Philadelphia, Pa. Hair curler. No. 1,437,334; Nov. 28.
- Batterson, Clyde A., Hastings, Nebr. Weed exterminator. No. 1,407,689; Feb. 28.
- Battery Appliance Corporation. (See Arendt, M., Burrows, and Rosenmeyer, assignors.)
- Battey, Richard, Black Diamond, Wash. Mining coal. No. 1,408,971; Mar. 7.
- Battey, William A., Haverford, Pa., assignor to Pennsylvania Crusher Company, New York, N. Y. Crusher roll. No. 1,410,546; Mar. 28.
- Battin, Cora B., Mount Vernon, N. Y. Fastening device. No. 1,412,825; Apr. 18.
- Battin, Harold T., New York, N. Y. Warning valve. No. 1,403,066; Jan. 10.
- Battin & Company. (See Rumble, William, Jr., assignor.)
- Battle Creek Box Company. (See Cummings, Charles A., assignor.)
- Battner, Stephen, Brooklyn, N. Y. Pneumatic-action unit. No. 1,420,673; June 27.
- Batts, John T., Grand Rapids, Mich. Trunk garment-holding rack. No. 1,424,333; Aug. 1.
- Batty, George, York, England. Apparatus for casting ingots. No. 1,414,394; May 2.
- Batty, Thomas E., Sheffield, England. Conveyer and the like. No. 1,413,956; Apr. 25.
- Bauder, John, Cincinnati, Ohio. Can holding and sealing device. No. 1,427,347; Aug. 29.
- Bauer, Anna, Union, N. J. Rope grip. No. 1,418,902; June 6.
- Bauer, August, Wetzlar, Germany. Microscope. No. 1,429,557; Sept. 19.
- Bauer, August G., Columbus, Ohio. Aquarium structure. No. 1,432,827; Oct. 24.
- Bauer, Bruno, Zurich, and A. von Zeerleder, assignors to Societe Anonyme des Aeliers de Secheron, Geneva, Switzerland. Electric resistance heater for high temperatures. No. 1,426,245; Aug. 15.
- Bauer, Carl E., Hammond, Ind. Brake-beam fulcrum and producing same. No. 1,402,392; Jan. 3.
- Bauer, Carl E., Hammond, Ind. Brake-beam fulcrum and making same. No. 1,415,009; May 9.
- Bauer, Carl E., Hammond, Ind. Fulcrum and making the same. No. 1,426,705; Aug. 22.
- Bauer, Carl E., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Car bolster and making same. No. 1,419,348; June 13.
- Bauer, Carl E., Hammond, Ind. Fulcrum and making the same. No. 1,427,932; Sept. 5.
- Bauer, Carl E., Hammond, Ind. Drawbar yoke and making the same. No. 1,439,659; Dec. 19.
- Bauer, Carl E., Hammond, Ind. Brake-beam fulcrum and making the same. No. 1,439,660; Dec. 19.
- Bauer, Christopher W., Brooklyn, N. Y. Household implement. No. 1,402,470; Jan. 3.
- Bauer, Christopher W., Brooklyn, N. Y. Cordage hitching device. No. 1,426,537; Aug. 22.
- Bauer, Eugen, Maine, Ill. Planter. No. 1,430,614; Oct. 3.
- Bauer, Fred, Red Wing, Minn. Floating decoy. No. 1,429,558; Sept. 19.
- Bauer, Frederick C., Philadelphia, Pa. Toy car. No. 1,416,775; May 23.
- Bauer, George, Neenah, Wis. Propeller. No. 1,438,012; Dec. 5.
- Bauer, Gustav, Hamburg, and F. Kramer, Blankenese-Dockenhuben, near Hamburg, Germany. Apparatus for preventing escape of oil from submarine tanks. No. 1,414,615; May 2.
- Bauer, Gustav, Hamburg, and F. Kramer, Blankenese-Dockenhuben, near Hamburg, Germany. Testing apparatus for indicating leaks. No. 1,423,902; July 25.
- Bauer, Gustav A., Chicago, Ill., assignor to Hugro Manufacturing Company, Warsaw, Ind. Brush construction. No. 1,407,913; Feb. 28.
- Bauer, Hans F. (See Lenders, A. W. H., and Bauer.)
- Bauer, Jacob L., Milwaukee, Wis. Lifting device for phonograph disks. No. 1,426,034; Aug. 15.
- Bauer, John, Detroit, Mich. Shoe-polishing device. No. 1,415,510; May 9.
- Bauer, John G. (See Roeling, H. W., Williams, and Bauer.)
- Bauer, John H., and W. F. Kennell, Stanberry, Mo. Liquid-level gauge. No. 1,429,832; Sept. 19.
- Bauer, John W. and L. E., Havre de Grace, Md. Can opener. No. 1,434,323; Oct. 31.
- Bauer, Lawrence E. (See Bauer, John W. and L. E.)
- Bauer, Perry S., Chicago, Ill. Automatic steering device for motor vehicles. No. 1,418,693; June 6.
- Bauer, Walter, assignor to Röhm & Haas Aktiengesellschaft, Darmstadt, Germany. Producing chemical compounds from acetylene and hydrohalogenic acids. No. 1,414,852; May 2.
- Bauer, Walter C., Kansas City, Mo. Driving mechanism for washing machines. No. 1,405,657; Feb. 7.
- Bauer, Wilhelm, and A. Herre, Opladen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Vat dyestuffs. No. 1,434,983; Nov. 7.
- Bauer & Black. (See Schulz, Otto C., assignor.)
- Bauer & Black. (See Sharp, William H., assignor.)
- Bäuerle, Hugo, Stuttgart, Germany. Automatic adjustable and foldable easy-chair. No. 1,414,064; Apr. 25.
- Bäuerle, Tobias, St. Georgen, Germany. Drive for weight-moved clocks. No. 1,408,718; Mar. 7.
- Bäuerle, Tobias, St. Georgen, Germany. Clock with striking trains for hours and quarters. No. 1,437,705; Dec. 5.
- Bauers, Aage K. J., Copenhagen, Denmark. Keyless lock suitable for cycle lock and the like. No. 1,408,434; Mar. 7.
- Bauert, William H., Roseville, near Sydney, New South Wales, Australia. Signal means for automobiles for indicating their direction of route or stoppage. No. 1,408,335; Feb. 28.
- Bauert, William H., Roseville, near Sydney, New South Wales, Australia. Means for contracting or expanding split demountable rims. No. 1,438,514; Dec. 12.
- Baughner, Jacob, North Webster, and W. F. Kline, South Milford, Ind. Folding swing chair. No. 1,417,443; May 23.
- Baughman, Alton L., Wolf Lake, Ind., assignor to The De Laval Separator Company, New York, N. Y. Bowl clamp for cream separators. No. 1,431,923; Oct. 17.
- Baughman, Leonard, Milwaukee, Wis. Device for dispensing phonograph needles or the like. No. 1,412,826; Apr. 18.
- Baule, Marie E. A., St.-Cyr, France. Apparatus for tracing the routes of warships and merchant vessels. No. 1,433,595; Oct. 31.
- Baum Dairy Appliance Company. (See Baum, Ewald G., assignor.) (Reissue.)
- Baum, Edward F., Wormleysburg, Pa. Weather-indicating device. No. 1,435,445; Nov. 14.
- Baum, Ewald G., assignor to Baum Dairy Appliance Company, Natick, Mass. Bottle cap. (Reissue.) No. 15,491; Nov. 21.
- Baum, Gabriel, Brooklyn, N. Y. Display doll and dress outfit. No. 1,434,279; Oct. 31.
- Baum, Gustav, assignor to the Firm Chemische Fabrik Weissenstein Gesellschaft m. b. H., Carinthia, Austria. Distilling sulphuric acid. No. 1,419,008; June 6.
- Baum, Henry, East Cleveland, Ohio. Scraper. No. 1,421,380; July 4.
- Baum, J., Safe & Lock Company, The. (See Freyberg, J., and Wubbolding, assignors.)
- Baum, James B., Grand Junction, Colo. Wrench. No. 1,404,828; Jan. 31.
- Baum, James B., Grand Junction, Colo. Truck. No. 1,424,438; Aug. 1.
- Baum, Kravat & Baum. (See Baum, Louis, assignor.)
- Baum, Louis, assignor to Baum, Kravat & Baum, New York, N. Y. Tag. No. 1,412,445; Apr. 11.
- Bauman, William N., Cleburne, Tex. Curtain-pole clamp. No. 1,405,257; Jan. 31.
- Baumann, Carl A. (See Stevens, C. S., and Baumann.)
- Baumann, Emil, St. Louis, Mo. Resilient tire. No. 1,424,231; Aug. 1.
- Baumann, Ferdinand P., Kusnacht, Switzerland. Beating apparatus. No. 1,433,113; Oct. 24.
- Baumann, Frederick, Jr., East Orange, N. J. Cutting machine. No. 1,418,053; May 30.
- Baumann, Karl, Urmoston, England, assignor to The British Westinghouse Electric and Manufacturing Company, Limited. Semidouble-flow steam turbine. No. 1,405,090; Jan. 31.
- Baumann, Karl, Urmoston, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited. Steam turbine. No. 1,405,091; Jan. 31.
- Baumann, Karl, Urmoston, England, assignor to The British Westinghouse Electric & Manufacturing Company Limited. Steam turbine. No. 1,405,092; Jan. 31.
- Baumann, Karl, Urmoston, England, assignor to The British Westinghouse Electric and Manufacturing Company, Limited. Steam turbine. No. 1,405,564; Feb. 7.
- Baumann, Karl, Urmoston, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited. Steam turbine. No. 1,405,565; Feb. 7.
- Baumann, Karl, Urmoston, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited. Steam turbine. No. 1,412,827; Apr. 18.

- Baumann, Karl, Urmston, England, assignor, by mesne assignments, to Westinghouse Electric and Manufacturing Company. Vacuum breaker. No. 1,432,272; Oct. 17.
- Baumeister, Hans Friedrichshafen, assignor to Zeppelin-Werke Staaken, Gesellschaft mit beschränkter Haftung, Staaken-Spandau, Germany. Flying machine. No. 1,439,993; Dec. 26.
- Baumetz, Gustave A., Cleveland, Ohio. Storage battery. No. 1,415,139; May 9.
- Baumgartel, Henry, Chicago, Ill. Adjustable photographic mask. No. 1,430,615; Oct. 3.
- Baumgartl, Leroy, assignor to Federal Cement Tile Company, Chicago, Ill. Roof structure. No. 1,417,487; May 30.
- Baumstark, Guiseppe J., North Bergen, N. J. Lock. No. 1,412,600; Apr. 11.
- Baun, Carl, Halle-on-the-Saale, Germany. Driving mechanism for rope and chain railways. No. 1,426,451; Aug. 22.
- Baur, Hugo J., Chicago, Ill., assignor, by mesne assignments, to Johnson Coin Counting Machine Co. Coin-counting machine. No. 1,410,239; Mar. 21.
- Baur, Hugo J., Chicago, Ill., assignor to Johnson Fare Box Company. Platform fare box. No. 1,435,687; Nov. 14.
- Bausch, Albert. (See Maguire, W., and Bausch.)
- Bausch, John J., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Mounting for reading lenses. No. 1,415,511; May 9.
- Bausch & Lomb Optical Company. (See Bausch, John J., assignor.)
- Bausch & Lomb Optical Company. (See Drescher, Theodore B., assignor.)
- Bausch & Lomb Optical Company. (See Kothiringer, Joseph, assignor.)
- Bausch & Lomb Optical Company. (See Poser, Max, assignor.)
- Bausch & Lomb Optical Company. (See Simpson, Leon G., assignor.)
- Bausher, Solon D., Reading, and J. D. Reed, Schuylkill Haven, assignors to Glorie Underwear Mill, Reading, and to Union Knitting Mills, Schuylkill Haven, Pa. Lady's undergarment. No. 1,407,626; Feb. 21.
- Bausman, Alonzo L., assignor to National Equipment Company, Springfield, Mass. Confectionery-coating machine. No. 1,407,116; Feb. 21.
- Bausman, Alonzo L., assignor to National Equipment Company, Springfield, Mass. Motor support. No. 1,427,713; Aug. 29.
- Bausman, Edward H., Baltimore, Md. Illuminated marker. No. 1,423,641; July 25.
- Bauwens, Seraphine F., Chicago, Ill., assignor to Wire-bounds Patents Company, Kittery, Me. Wirebound-box machine. No. 1,408,336; Feb. 28.
- Bauwens, Seraphine F., Chicago, Ill., assignor to Wire-bounds Patents Company, Kittery, Me. Machine for use in making wirebound boxes. No. 1,437,386; Nov. 28.
- Bava, Antonio G., San Francisco, Calif. Belting tool. No. 1,422,332; July 11.
- Bawden, Fred M. (in trust). (See Newkirk, Perry B., assignor.)
- Bawtree, Alfred E., Sutton, assignor of one-half to A. S. Legg, Thornton Heath, England. Means for regulating the flow of compressed gases. No. 1,421,381; July 4.
- Baxfiat Barrel & Crate Corporation. (See Le Fevre, George A., assignor.)
- Baxter, Ernest H., Chicago, Ill. Refillable fuse plug. No. 1,407,117; Feb. 21.
- Baxter, Ernest H., Chicago, Ill. Transmission lock. No. 1,428,316; Sept. 5.
- Baxter, Ernest W., Van Wert, Ohio. Attachment for motor vehicles. No. 1,421,147; June 27.
- Baxter, George, Rochester, N. Y. Husking ivory nuts. No. 1,433,928; Oct. 31.
- Baxter, Harold C. (See Whitaker, D., and Baxter.)
- Baxter, Robert L., et al. (See Nusbaum, Wilbur J., assignor.)
- Baxter, William C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Delivery mechanism. No. 1,405,389; Feb. 7.
- Baxter, William C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-leveling machine. No. 1,434,424; Nov. 7.
- Baxter, William C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sheet-feeding machine. No. 1,438,213; Dec. 12.
- Baxter, William C., assignor to E. M. Trimble, doing business as the E. M. Trimble Manufacturing Company, Rochester, N. Y. Hinge. No. 1,422,651; July 11.
- Baxter, William W. (See Hellmann, L. F., and Baxter.) (Reissue.)
- Baxter, Willis J., Waynesville, N. C. Combined rake and pitchfork. No. 1,439,220; Dec. 19.
- Bay State Pump Company. (See Waterhouse, Harold D., assignor.)
- Bayer, Frank E., Erie, assignor to Erie Art Metal Company, Millcreek Township, Pa. Sheet-metal article. No. 1,425,232; Aug. 8.
- Bayer, Matthew F., assignor to Simmons Company, Kenosha, Wis. Wall bed. No. 1,418,054; May 30.
- Bayer, Matthew F., assignor to Simmons Company, Kenosha, Wis. Extension couch. No. 1,418,055; May 30.
- Bayer, Matthew F., assignor to Simmons Company, Kenosha, Wis. Caster lock. No. 1,428,932; Sept. 12.
- Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Side-bolt construction for percussive tools. No. 1,409,904; Mar. 21.
- Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Pneumatic column. No. 1,409,905; Mar. 21.
- Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Percussive tools. No. 1,411,253; Apr. 4.
- Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Pin retainer for tool holders. No. 1,423,595; July 25.
- Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve-spindle-retaining device. No. 1,423,745; Sept. 12.
- Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Air-feed control for rock drills. No. 1,436,638; Nov. 28.
- Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Manual air-feed control for rock drills. No. 1,437,632; Dec. 5.
- Bayles, Lewis C., and F. M. Slater, Easton, Pa., assignors to Ingersoll-Rand Company, Jersey City, N. J. Percussive tool. No. 1,408,684; Mar. 7.
- Bayles, Lewis C., and F. M. Slater, Easton, Pa., assignors to Ingersoll-Rand Company, Jersey City, N. J. Automatic regulating valve for fluid-operating motors. No. 1,414,168; Apr. 25.
- Baylor, Charles A., assignor of one-half to J. E. McGraw, Laporte, Ind. Vehicle brake. No. 1,436,563; Nov. 21.
- Bayne, George G., et al. (See Branstrator, Clement G., assignor.)
- Bayne, George G., Bushnell, Ill. Road drag. No. 1,417,882; May 30.
- Bayne, George G., Bushnell, Ill. Trough. No. 1,423,552; July 25.
- Bayne, George G., and J. C. Hoehnen, Bushnell, Ill. Trough. No. 1,418,516; June 6.
- Bayne, George G., assignor of one-fourth to J. C. Hoehnen and one-fourth to C. G. Branstrator, and one-fourth to Bayne Manufacturing Company, Bushnell, Ill. Adjustable transmission mechanism. No. 1,415,512; May 9.
- Bayne Manufacturing Company, et al. (See Bayne, George G., assignor.)
- Bayne Manufacturing Company, et al. (See Branstrator, Clement G., assignor.)
- Bayrer, Homer H., administrator. (See Bayrer, William J.)
- Bayrer, William J., deceased, Hartford; H. H. Bayrer, administrator, assignor to R. G. Henry, West Hartford, Conn. Supporting means for shaft bearings. No. 1,416,776; May 23.
- Bayrer, William J., deceased, Hartford; H. H. Bayrer, administrator, assignor to R. G. Henry, West Hartford, Conn. Drilling machine. No. 1,416,777; May 23.
- Bayrer, William J., deceased, Hartford; H. H. Bayrer, administrator, assignor to R. G. Henry, West Hartford, Conn. Belt-shifting mechanism. No. 1,416,778; May 23.
- Bazaine, Leon, Levallois, France, assignor to Societe Anonyme des Etablissements Nieuport, Issy-les-Moulineaux, Seine, France. Aeroplane. No. 1,436,934; Nov. 28.
- Bazeley, Arthur J., assignor to The National Malleable Castings Company, Cleveland, Ohio. Coupling centering and supporting mechanism. No. 1,440,052; Dec. 26.
- Bazzezhin, Carlo M., Washington, D. C. Aeroplane attachment. No. 1,405,658; Feb. 7.
- Beach, Chester H., assignor to Wisconsin Electric Company, Racine, Wis. Drink mixer. No. 1,433,253; Oct. 24.
- Beach, Clarence E., Binghamton, N. Y., assignor, by mesne assignments, to The Gamewell Fire Alarm Telegraph Company. Signaling mechanism. No. 1,422,523; July 11.
- Beach, Edward J., assignor to Beach, Russ Co., Brooklyn, N. Y. Oil separator. No. 1,405,259; Jan. 31.
- Beach, Frank L., et al. (See Strong, E., and Tarbutton, assignors.)
- Beach, Harold K. and N. A., Baltimore, Md., assignors to Baltimore Tube Company, Incorporated. Pickling process and apparatus. No. 1,402,734; Jan. 10.
- Beach, Howard, et al. (See Christie, Hans L., assignor.)
- Beach, Howard L. (See Clark, C. H., and Beach.)
- Beach, Howard L., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,406,333; Feb. 14.
- Beach, Howard W. (See Brown, William J., assignor.)
- Beach, Merrill A., Penn Yan, N. Y. Liquid-dispensing apparatus. (Reissue). No. 15,257; Jan. 3.
- Beach, Merrill A., Penn Yan, N. Y. Automatic liquid-dispensing apparatus. No. 1,434,670; Nov. 7.
- Beach, Nealon A. (See Beach, Harold K. and N. A.)
- Beach, Oscar W., Turlock, Calif. Land leveler. No. 1,403,831; Jan. 17.
- Beach, Oscar W., Turlock, Calif. Land leveler. No. 1,403,934; Jan. 17.
- Beach, Russ Co. (See Beach, Edward J., assignor.)
- Bead Chain Manufacturing Co., The. (See Prevot, Frederic P., assignor.)
- Beadle, Blanche E., assignor of one-half to R. A. Beadle, Springfield, Mass. Hair-clasping device. No. 1,408,247; Feb. 28.
- Beadle, Blanche E., assignor of one-half to R. A. Beadle, Springfield, Mass. Hair-clasping device. No. 1,434,425; Nov. 7.

Alphabetical list of patentees—Continued.

- Beadle, George W., Stamford, assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Correction device for phonographic machines. No. 1,403,584; Jan. 17.
- Beadle, George W., Stamford, assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. No. 1,416,441; May 16.
- Beadle, George W., Stamford, Conn., and S. Kohn, New York, N. Y., assignors to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Automatic stop. No. 1,430,567; Oct. 3.
- Beadle, George W., Stamford, Conn., and S. Kohn, New York, N. Y., assignors to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Automatic stop. No. 1,430,568; Oct. 3.
- Beadie, Russell A. (See Beadle, Blanche E., assignor.)
- Beadie, Warren E., assignor to Nekoosa Motor and Machine Co., Grand Rapids, Wis. Safety device for winding and unwinding rollers. No. 1,412,994; Apr. 18.
- Beagle, Victor E., Alexandria, Va. Hoisting truck. No. 1,437,583; Dec. 5.
- Beagle, William J., assignor of one-half to J. M. Stever, Syracuse, N. Y. Glare shield for motor vehicles. No. 1,411,399; Apr. 4.
- Beakes, William E., New Orleans, La., assignor to United Fruit Company, Boston, Mass. Process and apparatus for wireless telegraphy and telephony. No. 1,438,290; Dec. 12.
- Beal, Carroll N. and F. C., San Francisco, Calif. Tractor driving and mechanism therefor. No. 1,423,642; July 25.
- Beal, Ray C. (See Beal, Carroll N. and F. C.)
- Beal, Frank F., et al., trustees. (See Ramage, Alexander S., assignor.)
- Beal, George Y., Choctaw, Okla. Steering-gear stabilizer. No. 1,428,515; Sept. 12.
- Beal, Herman L., Brookline, Mass. Rubber heel. No. 1,428,524; Sept. 12.
- Beal, Ralph R., Palo Alto, assignor to A. Taylor, San Francisco, Calif. Radio oscillation generator. No. 1,410,730; Mar. 28.
- Beal, Ralph W. and W. V., Alliance, Nebr. Bag holder. No. 1,422,524; July 11.
- Beal, Ralph W. and W. V., Alliance, Nebr. Grading apparatus. No. 1,437,884; Dec. 5.
- Beal, Warren F. (See Beal, Ralph W. and W. V.)
- Beall, Frank F., et al., trustees. (See Ramage, Alexander S., assignor.)
- Beall, Warren H., Washington, D. C. Building door. No. 1,429,833; Sept. 19.
- Beall, William P., Stevenson, Md. Power jack for motor vehicles. No. 1,436,564; Nov. 21.
- Beall, William P., Stevenson, Md. Power jack. No. 1,436,565; Nov. 21.
- Beals, Erl V., Boston, Mass. Internal-combustion engine. No. 1,434,801; Nov. 7.
- Beam, Jacob B., Punxsutawney, Pa. Automobile radiator. No. 1,409,272; Mar. 14.
- Beam, Jacob B., Punxsutawney, Pa. Automobile radiator. No. 1,409,273; Mar. 14.
- Beam, Jacob B., Punxsutawney, Pa. Automobile radiator. No. 1,412,332; Apr. 11.
- Beam, John B., Tyrone, Pa. Combined casket and burial vault. No. 1,410,643; Mar. 28.
- Beam, Otis L., Milwaukee, Wis. Dirigible headlight. No. 1,419,603; June 13.
- Beaman, George H., Los Angeles, Calif. Counter. No. 1,436,469; Nov. 21.
- Beamer, Earl A., Anchor, Ill. Drinking trough. No. 1,403,731; Jan. 17.
- Bean, Guy M., Los Angeles, Calif. Interlocking brick and the like. No. 1,420,810; June 27.
- Bean, John E., jr., Merrimac, Mass. Gas cock. No. 1,428,933; Sept. 12.
- Bean, Louis A., Denver, Colo. Direction indicator for automobiles. No. 1,413,823; Apr. 25.
- Bean, Louis A., Denver, Colo. Direction indicator for automobiles. No. 1,413,824; Apr. 25.
- Bean, Roscoe, Berea, Ohio. Chain tool. No. 1,426,429; Nov. 21.
- Bean Spray Pump Co. (See Cushman, Everett B., assignor.)
- Beaney, William, New York, N. Y. Tire. No. 1,412,601; Apr. 11.
- Beans, John F., Canton, assignor to The Beans Spring Company, Massillon, Ohio. Die. No. 1,436,006; Nov. 21.
- Beans Spring Company, The. (See Beans, John F., assignor.)
- Bear, Edward, New York, N. Y. Clothesline fastener. No. 1,434,802; Nov. 7.
- Bear, Jeanie, Pittsburgh, Pa. Garter. No. 1,425,571; Aug. 15.
- Bear, John F., Mansfield, Ohio. Supporter for suspenders. No. 1,419,802; June 13.
- Beardy, Charles. (See Hansen, William and H. C., and Beardy.)
- Beard, James, Pasadena, Calif. Automatic water heater. No. 1,420,513; June 20.
- Beard, Jerry L., assignor of one-half to R. J. Flood, Tulsa, Okla. Oil saver for oil-producing wells. No. 1,418,612; June 6.
- Beard, Richard M., New York, N. Y. Electric-lighting fixture. No. 1,410,985; Mar. 28.
- Beard, Richard M., New York, N. Y. Electric-light fixture. No. 1,421,382; July 4.
- Beardsell, George R., et al. (See Lyons, Earle B., assignor.)
- Beardslee, Arby, Lima, Mont. Rotary pump. No. 1,437,706; Dec. 5.
- Beardslee Chandelier Manufacturing Company. (See Dvorak, Anton, assignor.)
- Beardsley, Elmer O. (See Pondelick, Leo, assignor.)
- Beardsley, Elmer O., Chicago, and W. F. Piper, Oak Park, Ill. Sand gathering and elevating machine. No. 1,421,383; July 4.
- Beardsley, Elmer O., Chicago, and W. F. Piper, Oak Park, Ill., assignors to The Beardsley & Piper Company, Chicago, Ill. Machine for making molds. (Reissue.) No. 15,292; Feb. 28.
- Beardsley, Elmer O., Chicago, and W. F. Piper, Oak Park, assignors to The Beardsley & Piper Company, Chicago, Ill. Molding machine. No. 1,408,493; Mar. 7.
- Beardsley, Elmer O., Chicago, and W. F. Piper, Oak Park, assignors to The Beardsley & Piper Company, Chicago, Ill. Portable molding machine. No. 1,403,796; Mar. 7.
- Beardsley, Elmer O., Chicago, and W. F. Piper, Oak Park, assignors to The Beardsley & Piper Company, Chicago, Ill. Molding apparatus for founding. No. 1,427,348; Aug. 29.
- Beardsley, Elmer O., Chicago, and W. F. Piper, Oak Park, assignors to The Beardsley & Piper Company, Chicago, Ill. Filling molds for founding. No. 1,427,349; Aug. 29.
- Beardsley, Elmer O., Chicago, and W. F. Piper, Oak Park, assignors to The Beardsley & Piper Company, Chicago, Ill. Molding machine. No. 1,436,141; Nov. 21.
- Beardsley, Paul R., et al., trustees. (See Warren, J. R., and Brechting, assignors.)
- Beardsley, Paul R., et al., trustees. (See Warren, John R., assignor.)
- Beardsley & Piper Company, The. (See Beardsley, E. O., and Piper, assignors.)
- Bearens, Claude, New York, N. Y. Transmission gear. No. 1,420,514; June 20.
- Beasecker, Clarence H., Sparta, Mich. Machine for re-facing valves. No. 1,437,831; Dec. 5.
- Beasley, Harry E., and W. Byrd, Victoria, British Columbia, Canada. Dirigible headlight. No. 1,425,439; Aug. 8.
- Beasley, John W., jr., Los Angeles, Calif. Watering can. No. 1,432,587; Oct. 17.
- Beat, John, et al. (See Chladek, Joseph C., assignor.)
- Beat, Roy A., et al. (See Chladek, Joseph C., assignor.)
- Beaton, Angus, Vulcan, Alberta, Canada. Draft equalizer. No. 1,433,334; Oct. 24.
- Beatson, Francis H. P., Vancouver, British Columbia, Canada. Additional air device for internal-combustion engines. No. 1,403,003; Jan. 10.
- Beattey, Earle J. R. (See Wahlgren, R. M., and Beattey.)
- Beattie, Clifford H., Waxahachie, Tex. Unloading apparatus. No. 1,426,706; Aug. 22.
- Beattie, Thomas W. C., Wheeling, W. Va., assignor to National Tube Company, Pittsburgh, Pa. Feed-control mechanism. No. 1,411,400; Apr. 4.
- Beattie, William T. (See Mellett, L., and Curran, assignors.)
- Beatty, Henry B., Brooklyn, and C. L. Johnson, New York, assignors to Laplante & Dunklin Printing Company, New York, N. Y. Display container. No. 1,421,384; July 4.
- Beatty, Wallace A., New York, N. Y. The manufacture of catsup. No. 1,402,136; Jan. 3.
- Beatty, Wallace A., New York, N. Y. Treatment of rubber. No. 1,418,271; June 6.
- Beatty, William E., Bayside, assignor to Western Electric Company, Incorporated, New York, N. Y. Repeater system. No. 1,426,810; Aug. 22.
- Beatty, William F. (See Malloy, R. J., and Beatty.)
- Beatty, William M., Pittsburgh, Pa. Rotary piston pump and control mechanism therefor. No. 1,437,885; Dec. 5.
- Beatty, William R., Hammond, Ind. Long-stroke vertical-type press. No. 1,406,334; Feb. 14.
- Beaty, Arthur, San Gabriel, Calif. Umbrella. No. 1,411,560; Apr. 4.
- Beauchamp, Arthur W., and E. C. Davidson, Sandgate, Queensland, Australia. Internal-combustion engine. No. 1,428,412; Sept. 5.
- Beaudette, David and W., Manette, Wash. Animal trap. No. 1,413,701; Apr. 25.
- Beaudette, William. (See Beaudette, David and W.)
- Beaudinet, Adolphe, Brussels, Belgium. Apparatus for checking or recording the performance or running of machines or vehicles. No. 1,414,324; Apr. 25.
- Beaudoin, Joseph A., Montreal, Quebec, Canada. Switch-actuating mechanism. No. 1,405,179; Jan. 31.
- Beaudry, Joseph, Philadelphia, Pa. Rock drill. No. 1,436,470; Nov. 21.
- Beaulieu, Alexander J. (See Gaudreau, A. E., Beaulieu, R. J., and C. D. Gaudreau.)
- Beaulieu, Peter F., Bend, assignor of one-half to R. H. Loop, Deschutes County, Oreg. Shutter lock for roll-film cameras. No. 1,413,376; Apr. 18.
- Baumel, David W., Brooklyn, N. Y. Self-filling fountain pen. No. 1,435,446; Nov. 14.
- Baumont, Horace, and J. W. Polhemus, Paterson, N. J. Flushing apparatus. No. 1,402,137; Jan. 3.

- Beaumont, R. H., Company. (See Beaumont, Robert H., assignor.)
- Beaumont, R. H., Company. (See Hale, William E., assignor.)
- Beaumont, Robert H., Radnor, assignor to R. H. Beaumont Company, Philadelphia, Pa. Yielding actuating mechanism for skip-hoist chutes. No. 1,411,831; Apr. 4.
- Beaumont, Robert H., Radnor, assignor to R. H. Beaumont Company, Philadelphia, Pa. Take-up for skip-hoist ropes. No. 1,436,566; Nov. 21.
- Beaumont, Robert H., Radnor, assignor to R. H. Beaumont Company, Philadelphia, Pa. Sheave support. No. 1,437,335; Nov. 28.
- Beauvais, Georges A. (See Brillouin, L. N., and Beauvais.)
- Beaver, Carl P., Lynch, Ky., assignor to Ingersoll-Rand Company, Jersey City, N. J. Front head for rock drills. No. 1,403,284; Jan. 10.
- Beaver Company, The. (See Robinson, Charles G., assignor.)
- Beaver Company, The. (See Stuart Ethelbert B., assignor.)
- Beaver, David F., Columbus, Ohio. School desk. No. 1,420,404; June 20.
- Beaver, Edward J., Groton, Conn. Clothesrack. No. 1,410,240; Mar. 21.
- Beaver Machine and Tool Co. (See Pape, Herman G., assignor.)
- Beaver Machine and Tool Co. (See Schoenberg, Ralph A., now by judicial change of name Ralph A. Belmont, assignor.)
- Beavers, Dalridge B., Washington, D. C. Ignition switch. No. 1,405,260; Jan. 31.
- Beavers, Willie L., Springfield, Mo. Presser foot for sewing machines. No. 1,435,044; Nov. 7.
- Beccari, Giuseppe, assignor to Società Anonima Brevetti Beccari, Florence, Italy. Apparatus for working garbage and refuse of towns. (Reissue.) No. 15,417; July 25.
- Bech, Sigfred, Totowa, N. J. Bowling alley. No. 1,409,274; Mar. 14.
- Bechberger, Earl H., Cleveland, Ohio. Nut lock. (Reissue.) No. 15,379; June 13.
- Becholdt, William P., Portland, Ind. Heating stove. No. 1,410,792; Mar. 28.
- Becher, James A., Chicago, Ill. Screw-cutting machine. No. 1,420,013; June 20.
- Becher, Theodor, Gustavsborg, assignor to Maschinenfabrik Augsburg-Nürnberg A. G., Nürnberg, Germany. Segment gate. No. 1,422,076; July 11.
- Becherer, Gustav, Belleville, Ill. Lock. No. 1,411,401; Apr. 4.
- Bechman, Henry F., Battle Creek, Mich., assignor, by mesne assignments, to Detroit Trust Company, trustee. Four-page-width tubular plate press. No. 1,431,454; Oct. 10.
- Bechman, Henry F., Battle Creek, Mich., assignor, by mesne assignments, to Detroit Trust Company, trustee. Rotary web-printing press. No. 1,437,707; Dec. 5.
- Bechstein, Carl A., and E. B. Kornitz, Milwaukee, Wis. Apparatus for drying leather. No. 1,438,355; Dec. 12.
- Bechtold, William S., Newark, N. J. Band comb. No. 1,406,819; Feb. 14.
- Bechtold, William S., Newark, N. J. Article of manufacture. No. 1,435,911; Nov. 21.
- Beck, Albert, assignor to McGill Ticket Punch Company, Chicago, Ill. Punch. No. 1,417,488; May 30.
- Beck, Andrew F., Manitowoc, Wis. Tire and rim manipulating appliance. No. 1,402,471; Jan. 3.
- Beck, Andrew L., Orlando, Fla. Lumber calculator. No. 1,439,938; Dec. 26.
- Beck, Aubrey J., Erie, Pa. Rail joint. No. 1,438,356; Dec. 12.
- Beck, Charles F., Newark, N. J., assignor, by mesne assignments, to E. Clein, New York, N. Y. Comb. No. 1,434,185; Oct. 31.
- Beck, Charles J., Waterbury, Conn., assignor to The Shoe Hardware Company. Core vent and support. No. 1,413,566; Apr. 25.
- Beck Duplicator Company, The. (See Danheiser, T., and Fecher, assignors.)
- Beck, George, Detroit, Mich., assignor to American Hominy Company, Indianapolis, Ind. Cooked cereal food and preparing the same. No. 1,435,794; Nov. 14.
- Beck, George E., Cleveland, Ohio. Separator for storage-battery plates. No. 1,422,815; July 18.
- Beck, George E., Cleveland, Ohio, and T. E. Kirkpatrick, Lake Worth, Fla. Conduit support. No. 1,419,536; June 13.
- Beck, James H., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Justifying spacer or space band. No. 1,424,870; Aug. 8.
- Beck, John, Ashland, Wis. Refrigerator. No. 1,439,678; Dec. 19.
- Beck, John E. (See Flink, C. E., Beck, and Olson.)
- Beck, Roy L., Trenton, Mo. Water pump for tractors. No. 1,406,524; Feb. 14.
- Beck, Simon, Rathdrum, Idaho. Agitator for washing machines. No. 1,415,768; May 9.
- Beck, Wesley J., and J. A. Aupperle, assignors to The American Rolling Mill Company, Middletown, Ohio. Coated iron-alloy material. No. 1,434,081; Oct. 31.
- Beck, William A., assignor to St. Mary College, Society of Mary, Province of Cincinnati, Dayton, Ohio. Illuminating device for microscopes. No. 1,427,714; Aug. 29.
- Becker, Adolph, Wheeling, W. Va. Matrix and distributing apparatus for type-casting machines. No. 1,422,333; July 11.
- Becker, Alfred T., Highland, Ill. Chain lock. No. 1,414,065; Apr. 25.
- Becker, Allen J., Essex Fells, N. J. Carboy carrier. No. 1,429,218; Sept. 19.
- Becker, Allen J., Essex Fells, N. J. Carboy carrier. No. 1,435,795; Nov. 14.
- Becker, August M., assignor of one-half to M. Steinthal, New York, N. Y. Machine for coating webs with adhesives. No. 1,435,197; Nov. 14.
- Becker, Benjamin H., deceased, H. Becker, executrix, and J. Ciesla, Chicago, Ill. Soap-packing machine. No. 1,439,395; Dec. 19.
- Becker, Benjamin V., et al., trustees. (See Stephenson, Leigh J., assignor.)
- Becker, Christopher A., Nutley, N. J., assignor to The Torsion Balance Company, New York, N. Y. Balance. No. 1,404,426; Jan. 24.
- Becker, Erich, Kladno, Germany, and R. Suchoparek, Krocichlav, near Kladno, Czecho-Slovakia. Process and apparatus for the manufacture of crank shafts. No. 1,414,108; Apr. 25.
- Becker, Frank A., and A. P. Andlauer, Kansas City, Mo. Riveting tool. No. 1,417,711; May 30.
- Becker, George, Scranton, Pa. Safety paper. No. 1,431,903; Oct. 10.
- Becker, Harry E. (See Robertson, W. J., and Becker.)
- Becker, Hattie, executrix. (See Becker, B. H., and Ciesla.)
- Becker, Henry. (See Wright, M., and Becker.)
- Becker, John A., Nampa, Idaho. Egg breaker and separator. No. 1,409,649; Mar. 14.
- Becker, John F., Toledo, Ohio. Separable fastener. No. 1,419,104; June 6.
- Becker, John H., assignor to Warp Twisting-In Machine Company, Brooklyn, N. Y. Warp twisting-in machine. No. 1,403,067; Jan. 10.
- Becker, John H., assignor to Warp Twisting-In Machine Company, Brooklyn, N. Y. Warp-twisting-in machine. No. 1,424,276; Aug. 1.
- Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coke oven structure. No. 1,404,336; Jan. 24.
- Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coke-oven smoke-flue carriage. No. 1,410,447; Mar. 21.
- Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coke-oven-door-lifting machine. No. 1,411,262; Apr. 4.
- Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coking retort oven. No. 1,416,322; May 16.
- Becker, Martin D., Elkhart, Ind. Pneumatic chuck. No. 1,430,050; Sept. 26.
- Becker, Paul, assignor to Firm of Carl Zeiss, Jena, Germany. Device for temporarily converting a continuous ray pencil into an intermittent one. No. 1,424,334; Aug. 1.
- Becker, Rudolph, Roselle Park, N. J., assignor to The Singer Manufacturing Company. Thread cutter. No. 1,422,407; July 11.
- Becker, Rudolph, Roselle Park, N. J., assignor to The Singer Manufacturing Company. Straw-braid-sewing machine. No. 1,429,399; Sept. 19.
- Becker, Rudolph, Roselle Park, N. J., assignor to The Singer Manufacturing Company. Machine for stitching sweatbands in hats. No. 1,430,530; Oct. 8.
- Becker, Rudolph D., New York, N. Y. Drawing instrument. No. 1,411,151; Mar. 28.
- Becker, Walter S., assignor to Little Falls Fibre Company, Little Falls, N. Y. Lapping machine. No. 1,421,659; July 4.
- Beckers, Caspar F. A., Los Angeles, Calif. Hatrack. No. 1,403,004; Jan. 10.
- Beckers, Gustav, Crefeld, and F. Le Hanne, Benrath, near Düsseldorf, Germany. Reed for looms. No. 1,433,525; Oct. 31.
- Becket, Frederick M., Niagara Falls, N. Y. Purifying tin-bearing ferrotungsten. No. 1,429,272; Sept. 19.
- Becket, Frederick M., assignor to Electro Metallurgical Company, Niagara Falls, N. Y. Zirconium alloy and making same. No. 1,425,572; Aug. 15.
- Becket, Frederick M., Niagara Falls, N. Y., assignor to Electro Metallurgical Company. Treating tin-bearing tungsten ores. No. 1,431,559; Oct. 10.
- Becket, Frederick M., and J. A. Holladay, assignors to Electro Metallurgical Company, Niagara Falls, N. Y. Obtaining molybdenum or alloys thereof. No. 1,403,477; Jan. 17.
- Beckett, Aden, Long Island City, N. Y. Oven-loading device. No. 1,429,559; Sept. 19.
- Beckett, Jacie, Columbus, Ohio. Fireplace. No. 1,429,184; Sept. 12.
- Beckett, John R., Somerville, Mass. Thread-milling attachment for lathes. No. 1,414,853; May 2.
- Beckett, Miles W., Mount Vernon, Ark. Flytrap. No. 1,413,155; Apr. 18.
- Beckham, John, Austin, Tex. Fire preventer for moving-picture machines. No. 1,419,206; June 13.
- Beckley, Major H. E., assignor to A. J. Nystrom & Co., Chicago, Ill. Geographical globe. No. 1,419,604; June 13.

Alphabetical list of patentees—Continued.

- Beckley-Ralston Company, The. (See Bockius, Walter A., assignor.)
- Beckley, Theodore B., New Orleans, La. Collar button and clasp. No. 1,421,148; June 27.
- Beckman, Amanda, Los Angeles, Calif. Curtain rod. No. 1,419,207; June 13.
- Beckman, Bernard C., Naperville, and A. O. Herzog, La Grange, Ill., assignors to Beckman-Dawson Roofing Company. Apparatus for the manufacture of tapered asphalt shingles. No. 1,412,828; Apr. 18.
- Beckman, Clarence A. (See Davis, R. J., and Beckman.)
- Beckman-Dawson Roofing Company. (See Beckman, B. C., and Herzog, assignors.)
- Beckman, Edward M., Gary, Ind. Pneumatic tire. No. 1,415,140; May 9.
- Beckman, Frank E., Haverhill, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making soles. No. 1,434,521; Nov. 7.
- Beckmann, Carl. (See Anderson, E. D., and Beckmann.)
- Beckmann, Carl, assignor to E. D. Anderson, Inc., New York, N. Y. Packaging machine. No. 1,406,165; Feb. 14.
- Beckwith Company, The. (See Howes, George W., assignor.)
- Beckwith, Grove R. (See Burke, C. E., and Beckwith.)
- Beckwith, Henry C., assignor to The John F. Byers Machine, Ravenna, Ohio. Hoisting mechanism. No. 1,431,090; Oct. 3.
- Beckwith-O'Neill Company. (See O'Neill, Eugene F., assignor.)
- Beckwith, Raymond A., assignor to National Brake & Electric Company, Milwaukee, Wis. Cylinder-head construction. No. 1,430,051; Sept. 26.
- Beckwith, Walter C., Fostoria, Ohio. Bank vault and safe protector. No. 1,408,494; Mar. 7.
- Beckwith, Walter C., Fostoria, Ohio. Safe-protecting device. No. 1,408,495; Mar. 7.
- Beckworth, Otto Q., and O. J. Hobson, Chicago, Ill., assignors, by mesne assignments, to Anhydrous Food Products Company. Process and apparatus for dehydrating. No. 1,420,679; June 27.
- Beddingsfield, John A., Fort Valley, Ga. Automobile tire rim. No. 1,408,164; Feb. 28.
- Beddingsfield, John A., Fort Valley, Ga. Automobile tire rim. No. 1,408,165; Feb. 28.
- Beddoes, Hubert, Florence, S. C. Pumping system. No. 1,415,769; May 9.
- Bedell, William E., Montpelier, Idaho. Anvil. No. 1,431,868; Oct. 10.
- Bedford, Clayton W., and R. L. Sibley, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Vulcanizing cautchouc. No. 1,406,717; Feb. 14.
- Bedford, Clayton W., and R. L. Sibley, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Thiocarbamide derivatives in the vulcanization of cautchouc. No. 1,406,718; Feb. 14.
- Bedford, Clayton W., and R. L. Sibley, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Manufacture of thiocarbamide for vulcanization of cautchouc. No. 1,406,719; Feb. 14.
- Bedford, Clayton W., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Vulcanizing cautchouc. No. 1,418,772; June 6.
- Bedford, Clayton W., and R. L. Sibley, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Vulcanizing cautchouc. No. 1,418,771; June 6.
- Bedford, Elisabeth, M. E. J., et al. (See Schnetzer, Karl, assignor.)
- Bedford, George, Toronto, Ontario, Canada. Player-piano action. No. 1,419,349; June 13.
- Bedford, George, Toronto, Ontario, Canada. Registering device for player-piano music rolls. No. 1,434,186; Oct. 31.
- Bedford, Louise, Mount Pleasant, Iowa. Snowplow. No. 1,415,979; May 16.
- Bedford, Percy L., assignor to S. Mordan and Company, Limited, London, England. Pencil holder or case. No. 1,434,187; Oct. 31.
- Bedgood, Hubert O., Glasgow, assignor to Lobnitz & Company Limited, Renfrew, Scotland. Subaqueous rock-cutting apparatus. No. 1,432,828; Oct. 24.
- Bednar, Louis, Westville, Ill. Combined automobile bumper and wheel lock. No. 1,432,656; Oct. 17.
- Bednar, Louis, Westville, Ill. Combined automobile bumper and wheel lock. No. 1,432,657; Oct. 17.
- Bednar, Louis, Westville, and J. Jasus, Catlin, Ill. Faucet for barrels. No. 1,416,779; May 23.
- Bedwin, Clark D., Long Beach, Calif. Water heater. No. 1,421,149; June 27.
- Bee, William E., assignor to Palmer-Bee Company, Detroit, Mich. Trolley. No. 1,408,248; Feb. 28.
- Bee, William E., and W. E. Simpson, assignor to Palmer-Bee Company, Detroit, Mich. Trolley. No. 1,428,034; Sept. 12.
- Beebe, Bertha N. (See Beebe, Nathan S., assignor.)
- Beebe, Byron L., Wellington, Kans. Application of power. No. 1,429,122; Sept. 12.
- Beebe, Eugene F., Minneapolis, Minn. Wringer. No. 1,406,436; Feb. 14.
- Beebe, Eugene F., Minneapolis, Minn. Clothes wringer. No. 1,429,318; Sept. 19.
- Beebe, Eugene F., Minneapolis, Minn. Wringer. No. 1,438,626; Dec. 12.
- Beebe, Eugene F., Minneapolis, Minn. Washing machine. No. 1,438,683; Dec. 12.
- Beebe, Eugene F., Minneapolis, Minn. Clothes wringer. No. 1,440,205; Dec. 26.
- Beebe, John A., assignor of one-fourth to P. A. Greaves, Omaha, Nebr. Dumping mechanism for trucks. No. 1,422,077; July 11.
- Beebe, Nathan S., assignor to B. N. Beebe, Kansas City, Mo. Pan lifter. No. 1,431,560; Oct. 10.
- Beebe, Norman H. (See Duvall, G. W., and Beebe.)
- Beebe, Martin, assignor to S. C. McLouth, Marine City, Mich. Motor boat. No. 1,431,924; Oct. 17.
- Beech, Alexander C., West Pullman, Ill., assignor to H. Pickard, Allendale, Northumberland, England. Traction device. No. 1,413,891; Apr. 25.
- Beech-Nut Packing Company. (See Weill, M. K., and Cornell, assignors.)
- Beecher, Eugene L., New Haven, Conn. Internal-combustion engine. No. 1,405,093; Jan. 31.
- Beecher, Milton F., assignor to Norton Company, Worcester, Mass. Safety-tread tile. No. 1,439,285; Dec. 19.
- Beecher, Milton F., assignor to Norton Company, Worcester, Mass. Bonded alumina refractories. No. 1,439,286; Dec. 19.
- Beechler, Roy G., assignor to Vulcan Motor Axle Corporation, Detroit, Mich. Spring perch. No. 1,439,787; Dec. 26.
- Beechler, Roy G., assignor to Vulcan Motor Axle Corporation, Detroit, Mich. Steering-gear connection. No. 1,439,788; Dec. 26.
- Beechwood, G. E., et al. (See Smith, William B., assignor.)
- Beecken, Charles, New York, N. Y. Rope clamp. No. 1,421,885; July 4.
- Beede, Herbert G., Pawtucket, R. I. Textile twisting machine. No. 1,403,832; Jan. 17.
- Beedham, Albert, Calgary, Alberta, Canada. Clamping device for holding cans, jars, bottles, etc. No. 1,409,650; Mar. 14.
- Beeghly, Lloyd, Wauwatosa, Wis. Cylinder for internal-combustion engines. No. 1,409,518; Mar. 14.
- Beehler Steel Products Company. (See Goessling, F. W., and Garrett, assignors.)
- Beehler, William H., Baltimore, Md. Canopy. No. 1,414,616; May 2.
- Beam, Harry W., Batavia, Ill. Hanger for porch swings. No. 1,439,396; Dec. 19.
- Beeman, Cornelius J., Akron, Ohio. Door structure. No. 1,411,561; Apr. 4.
- Beeman, Edwin R., assignor to Beeman Tractor Company, Minneapolis, Minn. Traction machine. No. 1,419,605; June 13.
- Beeman, Edwin R., assignor to Beeman Tractor Company, Minneapolis, Minn. Wheel. No. 1,425,073; Aug. 8.
- Beeman Tractor Company. (See Beeman, Edwin R., assignor.)
- Beeman Tractor Company. (See Mader, Joseph, assignor.)
- Beeman Tractor Company. (See Phelps, Spencer H., assignor.)
- Beeman, Walter E., Laporte, Ind. Demountable rim. No. 1,423,176; July 18.
- Beemer, Clarence A., Westfield, N. J. Curtain fastener. No. 1,420,177; June 20.
- Beemer, George S., Meeker, Colo. Hay stacker. No. 1,405,659; Feb. 7.
- Beemer, Jasper A., Astoria, Oreg. Signal for motor-driven vehicles. No. 1,419,105; June 6.
- Beeneck, Joseph S., Nanticoke, Pa. Miner's blasting battery. No. 1,408,435; Mar. 7.
- Beer, Harry, Brooklyn, N. Y. Cargo light. No. 1,403,935; Jan. 17.
- Beer, Levi W., assignor to Roderick Lean Manufacturing Company, Mansfield, Ohio. Pivot-axle cultivator. No. 1,411,152; Mar. 28.
- Beers, Frederick, New Rochelle, and H. L. Powell, assignors to National Biscuit Company, New York, N. Y. Elevating device. No. 1,422,816; July 18.
- Beers, Frederick, New Rochelle, and H. L. Powell, New York, N. Y., assignors to National Biscuit Company, New York, N. Y. Drier or oven. No. 1,422,817; July 18.
- Beers, Frederick, New Rochelle, and H. L. Powell, assignors to National Biscuit Company, New York, N. Y. Apparatus for coating cakes, etc. No. 1,424,232; Aug. 1.
- Beers, Henry S., New York, N. Y., assignor, by mesne assignments, to Air-O-Mix, Incorporated. Aerating and mixing device. No. 1,417,883; May 30.
- Beers, Louis E., Wilkingsburg, Pa. Ice-rut remover for vehicles. No. 1,419,350; June 13.
- Beers, Roy R., Alva, Okla. Concrete mixer. No. 1,405,707; Feb. 7.
- Beetem, Frank G., Philadelphia, Pa. Suspension for train-lighting dynamos. No. 1,415,083; May 9.
- Beggs, Carl T., Long Beach, Calif. Polishing machine. No. 1,425,829; Aug. 15.
- Beggs, Charles A., Rice Lake, Wis. Hot-air furnace. No. 1,414,395; May 2.
- Be Gole, James, assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. No. 1,437,708; Dec. 5.
- Behan, Charles D., and G. G. Perry, Stigler, Okla. Refrigerator. No. 1,434,522; Nov. 7.

- Behan, Thomas W., Binghamton, N. Y. Ironing machine. No. 1,433,980; Oct. 31.
- Behie, John W., Snoqualmie Falls, assignor of one-half to O. Aschim, King County, Wash. Line rigging. No. 1,432,096; Oct. 17.
- Behling, William F., Elgin, Ill. Spare-tire carrier. No. 1,410,448; Mar. 21.
- Behn, Adolph, and J. G. Schmitt, Brooklyn, N. Y. Internal-combustion motor. No. 1,423,073; July 18.
- Behneman, Frederick J., San Francisco, and H. S. Rexworthy, Sunnyvale, Calif. Rod mill. No. 1,414,768; May 2.
- Behr, Claus F. Y., New York, N. Y. Device for repose. No. 1,409,212; Mar. 14.
- Behr, Emil E., Milwaukee, Wis. Amusement device. No. 1,435,045; Nov. 7.
- Behr, Henry, Brooklyn, N. Y. Folding bassinet. No. 1,424,796; Aug. 8.
- Behrens, Henry, Peshtigo, Wis. Engine stand and burning-in machine. No. 1,420,074; June 20.
- Behrman, Marcus B., New York, N. Y., assignor to The Lox Seal Corporation, Brooklyn, N. Y. Safety razor. No. 1,403,936; Jan. 17.
- Behrman, Marcus B., Brooklyn, N. Y., assignor to The Lox Seal Corporation, North Bergen, N. J. Safety razor. No. 1,432,949; Oct. 24.
- Beidelman, Samuel. (See Stephenson, Axel G., assignor.)
- Beidler, George C., Rochester, N. Y. Method of and apparatus for developing films. No. 1,414,769; May 2.
- Beier, Frank J., assignor to The Shotwell Manufacturing Company, Chicago, Ill. Apparatus for popping corn. No. 1,431,438; Oct. 10.
- Beil, John L., Galena, Ill. Adjustable rail brace. No. 1,407,368; Feb. 21.
- Beilbarz, Carl E., Joliet, assignor to Wm. E. Pratt Mfg. Company, Chicago, Ill. Mousetrap. No. 1,414,066; Apr. 25.
- Beisel, William J., Port Richmond, N. Y. Spring wheel. (Reissue.) No. 1,537,1; June 6.
- Beisel, William J., Port Richmond, N. Y. Spring wheel. No. 1,440,128; Dec. 26.
- Beiser, Charles W., Brooklyn, N. Y. Toy small arm. No. 1,406,820; Feb. 14.
- Beiser, Charles W., Brooklyn, N. Y. Moistener for stamps, envelopes, tape, etc. No. 1,429,058; Sept. 12.
- Beiser, George W. (See Maurer, J. F., and Beiser.)
- Beistle, Martin L., Shippensburg, Pa. Tissue-paper ornament. No. 1,414,006; Apr. 25.
- Beiswenger, Karl H., Jackson, Mich. Take-up device for moving picture film reels. No. 1,408,249; Feb. 28.
- Beiswinger, William C. and R. F. Morgan, assignors to W. H. Nicholson & Co., Wilkes-Barre, Pa. Electrode holder. No. 1,425,440; Aug. 8.
- Beitzell, August F., and B. D. Weikert, assignors of one-third to C. B. Whittle, Baltimore, Md. Power-transmission means. No. 1,405,479; Feb. 7.
- Bekelite Corporation. (See Baekeland, Leo H., assignor.)
- Belair, Joseph A. P., assignor of one-fourth to J. J. MacDonald and one-fourth to R. M. Scott, Montreal, Quebec, Canada. Oil burner. No. 1,438,684; Dec. 12.
- Belanger, Severen, Provemont, Mich. Railway tie. No. 1,412,648; Apr. 11.
- Belber Trunk & Bag Company, The. (See Grube, George F., assignor.)
- Belber Trunk & Bag Company, The. (See Slattery, William H., assignor.)
- Belcher Aerial Manufacturing Company. (See Belcher, Osmond T., assignor.)
- Belcher, Donald. (See Eustis, F. A., Hayward, Schleicher, and Belcher.)
- Belcher, Harold J., Algiers, La. Picture-projecting machine. No. 1,440,330; Dec. 26.
- Belcher, James A., Tacoma, Wash. Emergency tire shoe. No. 1,432,097; Oct. 17.
- Belcher, Mark, assignor of one-third to G. H. Davis, West Columbia, Tex. Oil-treating mixer. No. 1,417,965; May 30.
- Belcher, Osmond T., Los Angeles, Calif., assignor to Belcher Aerial Manufacturing Company. Wing-spar construction for aeroplanes. No. 1,417,657; May 30.
- Belcher, Osmond T., Los Angeles, Calif., assignor to Belcher Aerial Manufacturing Company. Fabricated covering for aeroplanes. No. 1,426,626; Aug. 22.
- Belcher, Osmond T., Los Angeles, Calif., assignor to Belcher Aerial Manufacturing Company. Internal-brace construction for aeroplanes. No. 1,438,685; Dec. 12.
- Belcher, Osmond T., Los Angeles, Calif., assignor to Belcher Aerial Manufacturing Company. Aeroplane construction. No. 1,438,686; Dec. 12.
- Belden, Edward H., Toledo, Ohio. Wheel carrier. No. 1,404,002; Jan. 17.
- Belden, Edward H., Toledo, Ohio. Tire carrier. No. 1,404,003; Jan. 17.
- Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Vehicle spring suspension. No. 1,407,914; Feb. 28.
- Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Spring suspension for motor vehicles. No. 1,407,915; Feb. 28.
- Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Spring suspension. No. 1,407,916; Feb. 28.
- Belden, Edward H., assignor to The Willys-Overland Company, Toledo, Ohio. Spring suspension for vehicles. No. 1,407,917; Feb. 28.
- Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Headlight. No. 1,410,155; Mar. 21.
- Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Motor vehicle. No. 1,421,757; July 4.
- Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Spring suspension for vehicles. No. 1,421,758; July 4.
- Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Spring suspension. No. 1,421,759; July 4.
- Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Spring suspension for vehicles. No. 1,421,760; July 4.
- Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Power-transmitting mechanism. No. 1,421,761; July 4.
- Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Valve-operating mechanism. No. 1,434,188; Oct. 31.
- Belden Manufacturing Company. (See Tibbals, Frank A., assignor.)
- Belier, Adolf, assignor to Troop Manufacturing Company, Pittsburgh, Pa. Gas burner. No. 1,420,405; June 20.
- Belger, Otto A. (See Böhmer, Max, assignor.)
- Belgian American Coke Ovens Corporation. (See Goffart, Paul, assignor.)
- Belgian American Coke Ovens Corporation. (See Piette, Olivier, assignor.)
- Belke, William E., Chicago, Ill. Process and apparatus for electroplating. No. 1,426,141; Aug. 15.
- Belknap, Charles H., Brooklyn, N. Y. Cover fastener. No. 1,409,815; Mar. 14.
- Belknap, Jess F., Orange Cove, Calif. Subsoiler. No. 1,403,937; Jan. 17.
- Bell, Alexander G., Washington, D. C., and F. W. Baldwin, Baddeck, Nova Scotia, Canada. Hydrodrome, hydroaeroplane, and the like. No. 1,410,874; Mar. 28.
- Bell, Alexander G., Washington, D. C., and F. W. Baldwin, Baddeck, Nova Scotia, Canada. Hydrodrome, hydroaeroplane, and the like. No. 1,410,875; Mar. 28.
- Bell, Alexander G., Washington, D. C., and F. W. Baldwin, Baddeck, Nova Scotia, Canada. Hydrodrome, hydroaeroplane, and the like. No. 1,410,876; Mar. 28.
- Bell, Alexander G., Washington, D. C., and F. W. Baldwin, Baddeck, Nova Scotia, Canada, and S. S. Breese, Southampton, N. Y. Hydrodrome, hydroaeroplane, and the like. No. 1,410,877; Mar. 28.
- Bell, Alfred. (See Lambert, A. L., and Bell.)
- Bell, Alonzo E., Spokane, Wash. Combining protractor and beam compass in one drafting tool. No. 1,436,471; Nov. 21.
- Bell, Alton M., assignor of one-half to W. D. Bell, Birmingham, Ala. Baseball game. No. 1,435,688; Nov. 14.
- Bell, Arthur. (See Oedell, L., and Bell.)
- Bell, Clinton L., Decatur, Ill. Hasp lock. No. 1,434,280; Oct. 31.
- Bell Clip Manufacturing Co. (See Averill, William H., assignor.)
- Bell, Earl F., Indianapolis, Ind. Quench rotary spark gap. No. 1,418,518; June 6.
- Bell, Frederick, St. Louis, Mo. Cold-water paint and making same. No. 1,438,627; Dec. 12.
- Bell, George T., Columbus, Ohio. Window construction. No. 1,413,377; Apr. 18.
- Bell, George W., Detroit, Mich. Cushion tire. No. 1,414,325; Apr. 25.
- Bell, Harry. (See Lenz, E. H., and Bell.)
- Bell, Harvey W., Yonkers, N. Y. Steam-generating plant. No. 1,436,078; Nov. 21.
- Bell, Harvey W., Yonkers, N. Y., assignor to The Beloyt Corporation, Dover, Del. Spring suspension. No. 1,427,185; Aug. 29.
- Bell, Harvey W., Yonkers, N. Y., assignor to The Beloyt Corporation, Dover, Del. Spring connection. No. 1,427,186; Aug. 29.
- Bell, Harvey W., Yonkers, N. Y., assignor to The Beloyt Corporation, Dover, Del. Vehicle suspension. No. 1,427,933; Sept. 5.
- Bell, Harvey W., Yonkers, and H. L. Hoyt, Jr., Great Neck, N. Y. Friction-drive mechanism. No. 1,418,355; June 6.
- Bell, Harvey W., Yonkers, and H. L. Hoyt, Jr., Great Neck, N. Y. Spring suspension. No. 1,420,680; June 27.
- Bell, Harvey W., Boundbrook, N. J., assignor to A. C. Fraser, trustee, New York, N. Y. Steam power plant. No. 1,425,629; Aug. 15.
- Bell, Henry V., Elmhurst, Flushing, N. Y. Combination circuit controller. No. 1,428,413; Sept. 5.
- Bell, James A., et al. (See Johnsen, Sigfred, assignor.)
- Bell, James A., Bremerton, Wash. Optical testing apparatus. No. 1,402,829; Jan. 10.
- Bell, James A., North Rockhampton, Queensland, Australia. Folding chair interchangeable for use as chair or back support. No. 1,409,816; Mar. 14.
- Bell, James C., assignor of one-half to R. Clark, Murrayville, Ill. Holding corset stays in place. No. 1,421,121; June 27.
- Bell, John C., Toccoa, Ga. Sign. No. 1,429,273; Sept. 19.
- Bell, John C., Detroit, Mich. Cooking utensil. No. 1,432,950; Oct. 24.

Alphabetical list of patentees—Continued.

- Bell, John E. (See Isom, E. W., and Bell.)
 Bell, John E., New York, N. Y. Waste-heat boiler system. No. 1,408,972; Mar. 7.
 Bell, John E., New York, N. Y. Waste-heat boiler-cleaning system. No. 1,408,973; Mar. 7.
 Bell, John E., Brooklyn, N. Y. Utilizing waste heat gases of cement kilns. No. 1,421,386; July 4.
 Bell, John E., Brooklyn, N. Y. Waste-heat economizer. No. 1,423,826; July 25.
 Bell, John E., Brooklyn, assignor to Power Specialty Company, New York, N. Y. Superheater. No. 1,409,651; Mar. 14.
 Bell, John E., Brooklyn, assignor to Power Specialty Company, New York, N. Y. Oil heater for topping stills. No. 1,418,272; June 6.
 Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,403,833; Jan. 17.
 Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,434,767; Nov. 7.
 Bell, Lorenzo W., assignor to National Grain Savers Association, Carrollton, Mo. Grain-recovery attachment for thrashing machines. No. 1,412,333; Apr. 11.
 Bell, Louis, West Newton, Mass. Reflecting telescope. No. 1,428,935; Sept. 12.
 Bell, Louis, West Newton, assignor to E. N. Goding, trustee, Newton, Mass. Projection and distribution of light. No. 1,428,936; Sept. 12.
 Bell, Louis, assignor to E. N. Goding, trustee, Newton, Mass. Light projector. No. 1,435,372; Nov. 14.
 Bell, Louis, West Newton, assignor to E. N. Goding, trustee, Newton, Mass. Light projector. No. 1,438,628; Dec. 12.
 Bell Manufacturing Co. (See Belling, Bernard A., assignor.)
 Bell Pump Company. (See Larkin, J. J., and Gordon, assignors.)
 Bell, Raymond T., Chicago, Ill. Pencil. No. 1,427,999; Sept. 5.
 Bell, Robert J., Richmond, Va. Mat. No. 1,425,830; Aug. 15.
 Bell, Samuel J., Springfield, Mass. Change-making machine. No. 1,424,439; Aug. 1.
 Bell, Thomas H., and J. G. Schoenleber, New York, N. Y. Cleaning apparatus. No. 1,432,951; Oct. 24.
 Bell, Thomas W., Portland, Oreg. Locking mechanism. No. 1,427,934; Sept. 5.
 Bell, Thomas W., Sistersville, W. Va. Well drill jar. No. 1,439,287; Dec. 19.
 Bell, Thomas W., and T. C. Rogers, Sistersville, W. Va. Pipe grip. No. 1,404,084; Jan. 17.
 Bell, Thos. D. (See Perry, Ira D., assignor.)
 Bell, Walter D. (See Bell, Alton M., assignor.)
 Bell, William A., Kenosha, Wis., assignor to C. M. Hall Lamp Company, Detroit, Mich. Lamp ring. No. 1,422,525; July 11.
 Bell, William M., Portsmouth, Ohio, assignor to Whitaker-Glessner Company, Wheeling, W. Va. End closure for range boilers and like containers. No. 1,430,000; Sept. 26.
 Bell & Howell Company. (See Howell, Albert S., assignor.)
 Bellamore, David H., New York, N. Y. Disk wheel. No. 1,410,986; Mar. 28.
 Bellamore, David H., New York, N. Y., and T. I. S. Boak, East Orange, N. J.; said Boak assignor to said Bellamore. Rim construction for pressed-steel wheels. No. 1,422,408; July 11.
 Bellamore, David H., and T. I. S. Boak, East Orange, N. J., assignors to Steel Wheel Corporation. Making pressed-steel vehicle wheels. No. 1,423,747; July 25.
 Bellamy, Harry T., Oak Park, and T. Sweely, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Glass composition. No. 1,415,980; May 16.
 Bellamy, James A. H., Kansas City, Kans. Folding box. No. 1,433,062; Oct. 24.
 Bellar, Charles J., assignor to The Cuyahoga Parts Company, Cleveland, Ohio. Cement spreader. No. 1,419,537; June 13.
 Bellar, Charles J., assignor to The Marvel Equipment Company, Cleveland, Ohio. Grease pump. No. 1,432,658; Oct. 17.
 Bellavoine, Leonce H. (See Snelling, W., and Bellavoine.)
 Belleville, William, Leicester, Mass. Noncorrosive steel alloy. No. 1,424,612; Aug. 1.
 Bellia, Pier G. (See Dughera, Annibale, assignor.)
 Belling, Bernard A., assignor to Bell Manufacturing Co., Beaver Dam, Wis. Drinking cup for stock. No. 1,405,478; Feb. 7.
 Bellingham, William E., Duluth, Minn. Automobile windshield accessory. No. 1,432,149; Oct. 17.
 Bellingrath, W. D., et al. (See Soutullo, Raymond J., assignor. (Reissue).)
 Bellis, Frank, Chicago, Ill. Electrical connector. No. 1,411,263; Apr. 4.
 Bellman, Harry H., Reading, Pa. Bottle receptacle. No. 1,433,107; Oct. 24.
 Belloch, Isaac, New York, N. Y. Nonset automatic stop mechanism. No. 1,429,059; Sept. 12.
 Bellon, Henry, Chicago, Ill. Die. No. 1,429,219; Sept. 19.
 Bellony, Alexander M., U. S. Army. Clamping mechanism. No. 1,414,250; Apr. 25.
 Bellony, Alexander M., U. S. Army. Brake mechanism. No. 1,424,440; Aug. 1.
 Bellows, Warren S., Worcester, Mass. Wrench. No. 1,420,467; June 20.
 Bellows, Warren S., Worcester, Mass. Hand grip for tools. No. 1,433,114; Oct. 24.
 Bell's United Asbestos Company Limited. (See Cann, J. A., and Burrows, assignors.)
 Belluche, Frank R., assignor to United Printing Machinery Company, Boston, Mass. Two-path sheet timing and transferring mechanism. No. 1,406,603; Feb. 14.
 Belmore, Edwin, Portland, Oreg. Automobile table. No. 1,433,063; Oct. 24.
 Beloyt Corporation, The. (See Bell, Harvey W., assignor.)
 Belser, Richard B. (See Moise, Harmon D., assignor.)
 Belsey, Walter J., Helensburgh, England. System for electric ship propulsion. No. 1,434,671; Nov. 7.
 Belt, Francis A., Cincinnati, Ohio. Calculating machine. No. 1,415,297; May 9.
 Belton, William A. (See Webb, A., Belton, and Reingpach.)
 Beltramini, Louis, Chicago, Ill. Nonseparating rail connection. No. 1,413,378; Apr. 18.
 Beltz, Maurice E., Buxton, N. Dak. Chain-tightening tool. No. 1,435,099; Nov. 7.
 Belvel, Leo D., Linnville, Iowa. Poultry feeder. No. 1,437,462; Dec. 5.
 Belverge, Armand Y. (See Wread, William E., assignor.)
 Belville Manufacturing Co., The. (See Belville, Martin, assignor.)
 Belville, Martin, assignor to The Belville Manufacturing Co. Inc., San Francisco, Calif. Shoe-polishing machine. No. 1,430,430; Sept. 26.
 Beman, Ralph, Cleveland, Ohio, assignor to General Electric Company. Gauge for lamps. No. 1,424,067; July 25.
 Bement, Nahum C., Rockford, Ill. Transmission mechanism and differential gearing. No. 1,409,994; Mar. 21.
 Bement, Nahum C., Rockford, Ill. Lug for tread surfaces. No. 1,414,334; May 2.
 Bement, Nahum C., Rockford, Ill. Axle. No. 1,418,613; June 6.
 Benard, Henri L. M. J., Paris, France. Aerial signal light. No. 1,413,379; Apr. 18.
 Benckstein, Charles H., Vinton, La. Leak-proof lower or standing valve. No. 1,418,423; June 6.
 Benda, Louis, Mainkur, near Frankfort-on-the-Main, Germany, assignor to Leopold Cassella & Co., Gesellschaft mit beschränkter Haftung. Arsenical compound of the acridine series and making same. No. 1,408,974; Mar. 7.
 Benda, Louis, Mainkur, near Frankfort-on-the-Main, Germany, assignor to Leopold Cassella & Co. Gesellschaft mit beschränkter Haftung. Compound of the acridine series and making the same. No. 1,427,431; Aug. 29.
 Benda, Louis, Mainkur, near Frankfort-on-the-Main, Germany, assignor to Leopold Cassella & Co. Gesellschaft mit beschränkter Haftung. Acridinium compound and making the same. No. 1,427,432; Aug. 29.
 Bender, George W., assignor to Mudge & Company, Chicago, Ill. Air-intake device. No. 1,437,709; Dec. 5.
 Bender, Herman, New York, N. Y. Skirt. No. 1,437,218; Nov. 28.
 Bender, Julius L., Charlotte, N. C. Shoe-polishing stand. No. 1,438,687; Dec. 12.
 Bendernagel, William H., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,431,091; Oct. 3.
 Bendernagel, William H., Queens, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone transmission system. No. 1,435,447; Nov. 14.
 Bendix Engineering Works, Inc. (See Bendix, Vincent, assignor.)
 Bendix, Vincent, Chicago, Ill. Engine starter. No. 1,404,711; Jan. 24.
 Bendix, Vincent, assignor to Bendix Engineering Works, Inc., Chicago, Ill. Clutch. No. 1,425,360; Aug. 8.
 Bendmann, Peter, Frankfort-on-the-Main, Germany. Electric arrester. No. 1,413,093; Apr. 18.
 Benedetti, Carlo, A. P. Vanselow, and W. Vanselow, Syracuse, N. Y. Production of aromatic aldehydes and their substitution derivatives. No. 1,405,261; Jan. 31.
 Benedick, Earnest H., assignor of one-third to I. J. McGinnis and one-third to E. E. Kincade, Huntington, W. Va. Lock for spare rims and tires. No. 1,402,472; Jan. 3.
 Benedict, Bernard, assignor to National Carbon Company, Inc., New York, N. Y. Circuit controller for flash lights. No. 1,406,964; Feb. 21.
 Benedict, Frederick S., Cranston, R. I. Safety guard. No. 1,432,098; Oct. 17.
 Benedict, Hershel A., East Orange, and E. M. Moller, Jersey City, N. J. Control system and apparatus. (Reissue.) No. 15,485; Nov. 7.
 Benedict, Hershel A., East Orange, and E. M. Moller, Jersey City, N. J. Control apparatus. No. 1,436,333; Nov. 21.
 Benedict, Hershel A., East Orange, and E. M. Moller, Jersey City, N. J. Control apparatus. No. 1,436,334; Nov. 21.
 Benedict, John W., Grand Ledge, Mich. Flour feeder. No. 1,421,896; July 4.

- Benedict, Maria A., New York, N. Y. Egg carrier. No. 1,426,246; Aug. 15.
- Benedict, T. N., Mfg. Co. (See Hatzung, Alexander, assignor.)
- Benedict, T. N., Mfg. Co. (See Saunders, Albert F., assignor.)
- Benedict, Theobald, assignor of one-third to J. Dietrich, New York, N. Y. Telephone muffler. No. 1,419,606; June 18.
- Benedict, Walter S., Cleveland, Ohio. Washing machine. No. 1,413,825; Apr. 25.
- Beneke & Knapf Manufacturing Company. (See Rayfield, Charles L., assignor.)
- Beneke & Kropf Manufacturing Company. (See Rayfield, Charles L., assignor.)
- Bencker, Jay C., Seattle, Wash., assignor of one-third to F. F. McIntosh, Glen Osborne, and one-third to W. B. Skinkle, Coraopolis, Pa. Manufacturing steel. No. 1,413,621; Oct. 10.
- Benford, Frank A., Schenectady, N. Y., assignor to General Electric Company. Searchlight window. No. 1,404,004; Jan. 17.
- Benford, Ralph J., Johnstown, Pa. Automobile bed. No. 1,410,731; Mar. 28.
- Bengel, William, Newport, Ark. Plumb and level. No. 1,410,283; Mar. 21.
- Bengston, Albin, Luck, Wis. Adjustable brace. No. 1,426,247; Aug. 15.
- Beugle, Jules, Paris, France. Means for closing glass bottles for chloride of ethyl and other volatile products. No. 1,414,169; Apr. 25.
- Benham, Oscar C., Decatur, Ill. Combined shade and curtain fixture for windows. No. 1,431,092; Oct. 3.
- Benish, Thomas E. (See Clarke, Justin A., assignor.)
- Benjamin, Bert R., Oak Park, Ill., and G. M. Merwin, Berwyn, Ill., assignors to International Harvester Company. Snapping rolls for huskers and shredders. No. 1,418,424; June 6.
- Benjamin, Dana H., assignor to H. C. Benjamin, Cleveland Heights, Ohio. Reversing mechanism for washing machines. No. 1,403,285; Jan. 10.
- Benjamin, Dana H., Cleveland Heights, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Garment-gloss-eliminating press. No. 1,409,652; Mar. 14.
- Benjamin, Dana H., Cleveland Heights, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Apparatus for handling starch mixture. No. 1,418,273; June 6.
- Benjamin, Dana H., Cleveland Heights, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Preparing starch. No. 1,418,274; June 6.
- Benjamin, Dana H., Cleveland Heights, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Handling starch mixture. No. 1,418,275; June 6.
- Benjamin, Dana H., Cleveland Heights, and A. R. Curtis, Cleveland, assignors to S. D. Guggenheim, Cleveland Heights, Ohio. Extractor. No. 1,423,827; July 25.
- Benjamin Eastwood Company. (See Wells, William S., assignor.)
- Benjamin Eastwood Company. (See Zeedyk, William, assignor.)
- Benjamin, Edward O., Newark, N. J. Rubber product and making the same. No. 1,409,275; Mar. 14.
- Benjamin, Edward O., Newark, N. J. Gasket, packing, etc. No. 1,409,276; Mar. 14.
- Benjamin, Edward O., Newark, N. J. Rubber gaskets, packing, etc. No. 1,409,277; Mar. 14.
- Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
- Benjamin Electric Manufacturing Company. (See Mueller, Ralph S., assignor.)
- Benjamin, George H., New York, N. Y. Apparatus for drying fruits, vegetables, and other substances. No. 1,415,010; May 9.
- Benjamin, George H., New York, N. Y. Tunnel kiln. No. 1,415,011; May 9.
- Benjamin, Harry S., assignor to Benjamin Motor Products Co., Detroit, Mich. Intake manifold for internal-combustion engines. No. 1,431,280; Oct. 10.
- Benjamin, Harry S., assignor to Benjamin Motor Products Company, Detroit, Mich. Intake manifold for internal-combustion engines. No. 1,431,281; Oct. 10.
- Benjamin, Henrietta C. (See Benjamin, Dana H., assignor.)
- Benjamin, Lionel, Kansas City, Mo. Closure for car-door openings. No. 1,413,702; Apr. 25.
- Benjamin Motors Products Co. (See Benjamin, Harry S., assignor.)
- Benjamin Motors Products Co. (See Perry, Frank R., assignor.)
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Hand portable electrical receptacle. No. 1,402,735; Jan. 10.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical connector device. No. 1,404,184; Jan. 24.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical receptacle. No. 1,404,731; Jan. 31.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Combination electric-light fixture. No. 1,404,732; Jan. 31.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric fixture. No. 1,404,733; Jan. 31.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical connector device. No. 1,422,170; July 11.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric switch. No. 1,426,811; Aug. 22.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Fuse plug. No. 1,427,895; Sept. 5.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical connector device. No. 1,431,622; Oct. 10.
- Benjamin & Johnes. (See Roth, Isidor, assignor.)
- Benjamins, Israel, Brooklyn, N. Y. Belt buckle. No. 1,407,185; Feb. 21.
- Benjamins, Israel, Brooklyn, N. Y. Rim and tire for automobile and other wheels. No. 1,422,818; July 18.
- Benkiser, Paul A., Cleveland, Ohio. Car-window-cleaning device. No. 1,431,357; Oct. 10.
- Benmayor, Leon. (See Habib, V., and Benmayor.)
- Benner, Henry W., Bethlehem, Pa. Antirattler. No. 1,427,774; Sept. 5.
- Benner, Raymond C. (See MacKenzie, A. A., and Benner.)
- Benner, Raymond C., Bayside, N. Y., assignor to Union Carbide & Carbon Research Laboratories, Inc. Stabilizing storage-battery electrodes. No. 1,439,994; Dec. 26.
- Benner, Raymond C., and H. F. French, Fremont, Ohio, assignor to National Carbon Company, Inc. Depolarizer for primary batteries. No. 1,415,860; May 16.
- Benner, Raymond C., and H. F. French, Fremont, Ohio, assignors to National Carbon Company, Inc. Electric battery. No. 1,425,573; Aug. 15.
- Benner, Raymond C., and H. F. French, Fremont, Ohio, assignors to National Carbon Company, Inc. Dry cell. No. 1,433,526; Oct. 31.
- Benner, Raymond C., and H. F. French, Fremont, Ohio, assignors to National Carbon Company, Inc. Electric battery. No. 1,438,084; Dec. 5.
- Benner, Raymond C., and H. F. French, Fremont, Ohio, assignors to National Carbon Company, Inc. Electric battery. No. 1,438,085; Dec. 5.
- Benner, Raymond C., and H. F. French, Fremont, Ohio, assignors to National Carbon Company, Inc. High-voltage copper-oxide depolarizer. No. 1,438,086; Dec. 5.
- Bennet, Charles G., Rochester, N. Y. Fireproof lock box. No. 1,421,150; June 27.
- Bennett, Alan M. (See Caldwell, F. S., and Bennett.)
- Bennett, Alan M., W. B. Elliott, and W. O'Brien, Westfield, N. J., assignors, by mesne assignments, to Burke Electric Company. Arc-welding system. No. 1,415,012; May 9.
- Bennett, Alexander, Buffalo, N. Y. Flying machine. No. 1,408,496; Mar. 7.
- Bennett, Arthur, Hollinwood, England. Machine for splicing up the ends of cotton, linen, and other threads. No. 1,421,151; June 27.
- Bennett, Ashley C., assignor to I. E. Bennett, Minneapolis, Minn. Carburetor. No. 1,430,001; Sept. 26.
- Bennett, Charles E., Atlanta, assignor to The Service Engineering Company, Marietta, Ga. Current interrupter. No. 1,420,515; June 20.
- Bennett, Charles F., Chicago, Ill., assignor to Bennett Elastic Web Co. Protector. No. 1,420,361; June 30.
- Bennett, Charles F., Waterloo, Iowa. Self-cleansing cistern filter. No. 1,433,254; Oct. 24.
- Bennett, Charles H., Detroit, Mich. Manifold and carburetor. No. 1,435,689; Nov. 14.
- Bennett, Charles R. (See Comer, John J., assignor.)
- Bennett, Charles R. (See Holmstrom, Frank, Jr., assignor.)
- Bennett, Clarence W., New York, N. Y. Velocipede. No. 1,422,171; July 11.
- Bennett, Clarence W., New York, N. Y. Velocipede. No. 1,422,172; July 11.
- Bennett, Edward D., Pulaski, N. Y. Felt-cleaning device for paper-making machines. No. 1,406,821; Feb. 14.
- Bennett Elastic Web Co. (See Bennett, Charles F., assignor.)
- Bennett, Frank J., Cambridge, Ohio. Auxiliary shield for automobiles. No. 1,410,987; Mar. 28.
- Bennett, George A., Prahran, and F. B. A. Kirsten, Balwyn, Melbourne, Victoria, Australia. Renewable or loose leaf book. No. 1,406,166; Feb. 14.
- Bennett, George W., Oak Park, assignor to J. F. Meyer, Chicago, Ill. Moving-picture-exhibiting machine. No. 1,426,344; Aug. 22.
- Bennett, Harold, Bridgeton, Mo. Tow bar for automobiles. No. 1,438,291; Dec. 12.
- Bennett, Hugh J. (See Justice, H. H., and Bennett.)
- Bennett, Irene E. (See Bennett, Ashley C., assignor.)
- Bennett, Jackson A., Los Angeles, Calif. Adjustable drainage fitting for water closets, etc. No. 1,410,526; Mar. 21.
- Bennett, Jacob E., Portland, Oreg. Machine for grinding sausage meat. No. 1,435,796; Nov. 14.
- Bennett, John M., Atlantic, Iowa. Combination auto abstract and deposit system. No. 1,402,339; Jan. 3.
- Bennett, Joseph O., Shreveport, La. Post for well-drilling rotaries. No. 1,418,056; May 30.

Alphabetical list of patentees—Continued.

- Bennett, Morris H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Electric furnace. No. 1,404,734; Jan. 31.
- Bennett, Overton M., Uniondale, Pa. Chicken feeder. No. 1,417,226; May 23.
- Bennett, Russell H., Tucson, Ariz. Rail pantograph. No. 1,418,614; June 6.
- Bennett, Samuel G., Philadelphia, Pa. Heddle frame. No. 1,434,189; Oct. 31.
- Bennett, William H., Calvin, Okla. Automobile top fastener. No. 1,407,118; Feb. 21.
- Bennett, William H., Auburn, N. Y. Internal-combustion engine. No. 1,413,567; Apr. 25.
- Bennett, William H. K., Chicago, Ill., assignor to American Manganese Steel Company, Augusta, Me. Suction nozzle. No. 1,425,165; Aug. 8.
- Bennik, Arie W. F., Delft, Netherlands. Rowing apparatus. No. 1,438,688; Dec. 12.
- Bennington, Earl T., Cleveland, Ohio. Overhead trackway system. No. 1,412,829; Apr. 18.
- Bennington, Earl T., Cleveland, Ohio. Rail-supporting clamp for overhead carrier systems. No. 1,412,830; Apr. 18.
- Bennington, Earl T., Colonial Heights, Ohio. Carrier for overhead carrier systems. No. 1,412,831; Apr. 18.
- Benno Kühn, Maschinenfabrik. (See Eule, Gustav, E., assignor.)
- Benoist, Enrique J., Vina del Mar, Chile. Grade sight. No. 1,424,613; Aug. 1.
- Benoist, Frank O., assignor to A. R. Thomas, Phoenix, Ariz. Piston for internal-combustion engines. No. 1,420,014; June 20.
- Benoit, Delor J., Highland Park, Mich. Broom. No. 1,438,741; Dec. 12.
- Benoit, Joseph F., Sanford, Me. Wire motion for looms. No. 1,421,897; July 4.
- Benoit, Napoleon, Watervliet, N. Y. Thread-cutting tool. No. 1,422,652; July 11.
- Bens, Samuel J., Herkimer, N. Y. Baby carriage. No. 1,428,000; Sept. 5.
- Bensch, Kurt, Patchogue, N. Y. Basket-ball toy. No. 1,433,335; Oct. 24.
- Benshoof, Arthur, Garrison, N. Dak. Oil can. No. 1,410,878; Mar. 28.
- Bensinger, Wilson, Lodi, Ohio. Adjustable stove dry-rack. No. 1,439,789; Dec. 26.
- Bensman, Arthur W., Buffalo, N. Y. Sterilizer. No. 1,435,143; Nov. 14.
- Benson, Bradley L., San Francisco, Calif. Method of and machine for spacing tiles and pasting same to paper. No. 1,404,567; Jan. 24.
- Benson, David, and G. K. Bruce, Des Moines, Iowa. Ventilated automobile driver's seat. No. 1,422,915; July 18.
- Benson, Edward R., Minneapolis, Minn., and M. S. Crandall, Sioux City, Iowa. Vehicle dump. No. 1,435,690; Nov. 14.
- Benson, Elof, Newton, assignor of one-half to F. M. Durkee, Brookline, Mass. Screen attachment for cameras. No. 1,438,013; Dec. 5.
- Benson, Emil T., Chicago, Ill. Marking machine. No. 1,423,903; July 25.
- Benson, Ernest J., Blackfoot, Idaho. Plastic-block mold. No. 1,408,685; Mar. 7.
- Benson, George H. (See Moen, H. C., and Benson.)
- Benson, Matthew P., Troy, and M. M. Wiener, New York, N. Y. Metal-face-plate brush. No. 1,432,099; Oct. 17.
- Benson, Melvin B., Superior, Wis. Master controller for telemotors. No. 1,409,356; Mar. 14.
- Benson, Melvin B., Superior, Wis. Amusement device. No. 1,409,357; Mar. 14.
- Benson, Melvin B., Superior, Wis. Brake and anchor operating and releasing means for traveling bridges. No. 1,437,710; Dec. 5.
- Benson, Ralph W., et al. (See Heller, Jesse B., assignor.)
- Benson, Robert E., Lodi, Ohio. Tire grip chain. No. 1,414,396; May 2.
- Benson, William S., Newark, N. J. Electromagnetic wave bath. No. 1,418,903; June 6.
- Benster, Olin W., Toledo, Ohio. Airship propelling, supporting, and landing mechanism. No. 1,430,880; Oct. 3.
- Bentall, Edmund E. (See Bingham, George C., assignor.)
- Bentham, Cecil, assignor to Henry Simon Limited, Manchester, England. Apparatus for unloading grain. No. 1,407,510; Feb. 21.
- Bentley, Aline E., et al. (See Bentley, Dozier T., assignor.)
- Bentley, Anson J., Niles, Ohio. Ice-making apparatus. No. 1,406,167; Feb. 14.
- Bentley, Anson J., Niles, Ohio. Ice-making apparatus. No. 1,406,168; Feb. 14.
- Bentley, Anson J., Niles, Ohio. Ice-making apparatus. No. 1,427,935; Sept. 5.
- Bentley, Anson J., Niles, Ohio. Freezing can. No. 1,427,936; Sept. 5.
- Bentley, Anson J., Niles, Ohio. Freezing can. No. 1,427,937; Sept. 5.
- Bentley, Anson J., Niles, Ohio. Freezing can. No. 1,427,938; Sept. 5.
- Bentley, Anson J., Niles, Ohio. Freezing can. No. 1,437,165; Nov. 28.
- Bentley, Ben L., Franklin, Pa. Screw driver. No. 1,412,550; Apr. 11.
- Bentley, C. M., et al. (See Schaefer, Frank M., assignor.)
- Bentley, Dozier T., assignor of one-half to A. E. Bentley and one-half to F. W. Galvery, Sacramento, Calif. Air gauge. No. 1,405,706; Feb. 7.
- Bentley, Edward M., Lawrence, N. Y. Rheostat. No. 1,411,901; Apr. 4.
- Bentley, Elizabeth, executrix. (See Bentley, Manton T.)
- Bentley, Fred, Detroit, Mich. Spring wheel. No. 1,438,087; Dec. 5.
- Bentley, George A., Marthon, Iowa. Seed-potato-cutting machine. No. 1,411,832; Apr. 4.
- Bentley, John G., Paterson, N. J. Thread and making same. No. 1,412,446; Apr. 11.
- Bentley, John H., et al. (See Brown, William H. A., assignor.)
- Bentley Machine Company. (See Bentley, Thomas, assignor.)
- Bentley, Manton T., deceased, Palmyra, N. J., E. Bentley, executrix, Tobacco-pipe cleaner. No. 1,419,106; June 6.
- Bentley, Oliver D. H., Roslindale, assignor to B. F. Sturtevant Company, Hyde Park, Mass. Steam turbine. No. 1,410,644; Mar. 28.
- Bentley, Oliver D. H., Roslindale, assignor to B. F. Sturtevant Company, Hyde Park, Mass. Steam turbine. No. 1,415,298; May 9.
- Bentley, Oliver D. H., Roslindale, assignor to B. F. Sturtevant Company, Hyde Park, Mass. Steam turbine. No. 1,434,672; Nov. 7.
- Bentley, Samuel E., Springfield, Mass. Safety pin. No. 1,420,952; June 27.
- Bentley, Thomas, assignor of one-half to Bentley Machine Company, Dracut Center, Mass. Detector for roving and similar machines. No. 1,415,917; May 16.
- Benton, Harry O., Bayonne, N. J., assignor, by mesne assignments, to Standard Development Company, New York, N. Y. Labeling device. No. 1,439,397; Dec. 19.
- Benton, John W., Harlowe, New South Wales, Australia. Educational device. No. 1,428,206; Sept. 5.
- Benton, Linn B. and M. F., Plainfield, assignors to American Type Founders Company, Jersey City, N. J. Fonting apparatus. No. 1,418,057; May 30.
- Benton, Morris F. (See Benton, Linn B. and M. F.)
- Benton, William E., San Francisco, Calif. Toy. No. 1,404,509; Jan. 24.
- Bentson, Hans J., Winthrop Harbor, assignor to F. C. Austin, Chicago, Ill. Self-shifting track. No. 1,421,387; July 4.
- Bentum, Lucas O. (See Roumimper, Jacobus A., assignor.)
- Bentz, Bessie M., et al. (See Bentz, John A., assignor.)
- Bentz, Harry, Montclair, N. J. Cabinet drier. No. 1,425,314; Aug. 8.
- Bentz, Harry, Montclair, N. J. Apparatus for drying. No. 1,436,142; Nov. 21.
- Bentz, John A., assignor of one-half to W. S. Schell and one-half to B. M. Bentz, Harrisburg, Va. Lug. No. 1,402,562; Jan. 3.
- Bentz, John A., assignor of one-half to W. S. Schell and one-half to B. M. Bentz, Harrisburg, Pa. Traction lug. No. 1,436,229; Nov. 21.
- Benvissuto, Philip, et al. (See Mombaruzzo, Luigi, assignor.)
- Benvissuto, Philip, and L. Mombaruzzo, New York, N. Y. Automatic gas-control valve. No. 1,430,351; Sept. 26.
- Benway, David A. (See Brady, H. T., and Benway.)
- Benz, Adolph, jr., Peoria, Ill. Apparatus for treatment of dough. No. 1,430,616; Oct. 3.
- Benzone Condensation Co. (See Boecler, Albert, assignor.)
- Berardi, Frank, Little Silver, N. J. Drain tile. No. 1,413,380; Apr. 18.
- Berdan, Jacob M., Paterson, N. J., assignor to John-Manville Incorporated. Roofing. No. 1,422,526; July 11.
- Berendes, Rudolf. (See Weyland, H. Hahl, and Berendes.)
- Berendes, Rudolf, and W. Grüttefen, Elberfeld, assignors to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Pharmaceutical compound. No. 1,440,269; Dec. 26.
- Berendsen, Henry A., Bangor, Pa. Refooting stockings. No. 1,424,708; Aug. 1.
- Berenson, Israel, Boston, Mass. Guide for positioning sheets of paper. No. 1,437,744; Dec. 5.
- Beresford, Lionel B., Beverly, N. J. Game. No. 1,433,336; Oct. 24.
- Berg, Andrew, Bridgeport, Conn. Wire-chain-making machine. No. 1,438,474; Dec. 12.
- Berg, Carl E., Minneapolis, Minn. Internal-combustion engine. No. 1,417,133; May 23.
- Berg, Edgar A., Grand Forks, N. Dak. Automobile wheel. No. 1,427,433; Aug. 29.
- Berg, Einar H., Chicago, Ill. Whipper. No. 1,416,597; May 16.
- Berg, George H. (See Berg, Herman H. and G. H.)
- Berg, Herman H. and G. H., Thornburg, Colo. Farm-gate latch. No. 1,403,732; Jan. 17.
- Berg, Joseph A. (See Anderson, N. B., and Berg.)
- Berg, Martin. (See Berggraf, Hans, assignor.)
- Berg, Richard O. and S., assignors to Michigan Steel Tube Products Co., Detroit, Mich. Tube-welding machine. No. 1,418,058; May 30.
- Berg, Simon. (See Berg, Richard O. and S.)
- Bergander, John F., Chicago, Ill. Subdividing tool. No. 1,416,323; May 16.

- Bergdoll, Louis J., now, by judicial change of name L. J. Bergson, Philadelphia, Pa. Phonographic sound box. No. 1,423,387; July 18.
- Bergdorf, Josef, New York, N. Y. Hydraulic water gate. No. 1,405,390; Feb. 7.
- Berge, Joseph, Flint, Mich. Lamp support. No. 1,420,075; June 20.
- Berge, Paul. (See Grünstein, N., and Berge.)
- Bergen, Albert R., South Amboy, N. J. Combination shingle and attaching means therefor. No. 1,431,869; Oct. 10.
- Bergen, Charles B., Washington, D. C. Mute for stringed instruments. No. 1,416,780; May 23.
- Bergens, William J., Chicago, assignor to The Novelty Patents Company, North Chicago, Ill. Extension curtain rod. No. 1,432,437; Oct. 17.
- Berger, Alexander, Bayside, N. Y. Automobile signal device. No. 1,430,352; Sept. 26.
- Berger, Alfred A. R., and G. J. Hoffman, Brooklyn, N. Y. Shearing device. No. 1,411,605; Apr. 4.
- Berger, Christian. (See Sawyer, Frederick L., assignor.)
- Berger, Christian, New York, N. Y., assignor to F. L. Sawyer, Evanston, Ill. Sound-operated circuit controller. No. 1,405,708; Feb. 7.
- Berger, Christian, assignor of one-half to F. L. Sawyer, New York, N. Y. Color print viewable by lights of different colors and making same. No. 1,422,527; July 11.
- Berger, Daved, Philadelphia, Pa. Heel for ladies' shoes. No. 1,411,264; Apr. 4.
- Berger, Delino, Madison Township, Franklin County, Ohio. Air brake. No. 1,427,715; Aug. 29.
- Berger, Ferdinand H., Detroit, Mich. Internal-combustion engine. No. 1,412,266; Apr. 11.
- Berger, George R. (See Chamberlain, Rufus N., assignor.)
- Berger, Henry, Jr., Portland, Oreg. Film holder. No. 1,405,892; Feb. 7.
- Berger, Joseph, Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Needle clamp for sewing machines. No. 1,430,930; Oct. 3.
- Berger, Knute, assignor to Washington Iron Works, Seattle, Wash. Cable clamp. No. 1,430,783; Oct. 3.
- Berger, Matthew R., Philadelphia, Pa. Shank for eave-trough supports. No. 1,429,482; Sept. 19.
- Berger, Richard, assignor to Firm F. Soenneken, Bonn-on-the-Rhine, Germany. Copying machine. No. 1,412,995; Apr. 18.
- Berger, Richard, assignor to Firm F. Soenneken, Bonn-on-the-Rhine, Germany. Paper roll for roller copying machines. No. 1,415,084; May 9.
- Berger, Samuel, New York, N. Y. Binding strap. No. 1,411,902; Apr. 4.
- Berger, Samuel, Newark, N. J., assignor, by mesne assignments, to Illinois Watch Case Company, Elgin, Ill. Cigarette case. No. 1,413,381; Apr. 18.
- Bergeron, Joseph, A. C., assignor to J. W. Genest, Sherbrooke, Quebec, Canada. Advertising device. No. 1,429,274; Sept. 19.
- Bergesch, Louis W., St. Louis, Mo. Burial-casket handle. No. 1,403,666; Jan. 17.
- Bergey, Aaron E., Warren, Ohio. Mechanism for driving tools. No. 1,406,965; Feb. 21.
- Bergey, Aaron E., Bazetta Township, Trumbull County, Ohio. Mechanism for driving tools. No. 1,413,094; Apr. 18.
- Berggraf, Hans, Stavanger, assignor to M. Berg, Sandeferd, Norway. Pedal apparatus for sewing machines and the like. No. 1,416,324; May 16.
- Bergholz, August F., and C. O. Johnson, Jefferson, Wis. Sanitary strainer. No. 1,413,892; Apr. 25.
- Berglund, Andrew, assignor to R. S. Broge, Indiana Harbor, Ind. Double hand and foot propelled vehicle. No. 1,405,660; Feb. 7.
- Berglund, Andrew, Indiana Harbor, Ind., assignor to R. S. Broge, Chicago, Ill. Cement mill. No. 1,426,812; Aug. 22.
- Berglund, Herman, Duluth, Minn. Chain link. No. 1,431,771; Oct. 10.
- Bergman-Koropp & Co. (See Johnston, R. L., and Wallner, assignors.)
- Bergman, Lars H., Chicago, Ill. Pulverized-fuel furnace. No. 1,421,898; July 4.
- Bergman, Louis W., New York, N. Y. Loose-leaf binder. No. 1,429,708; Sept. 19.
- Bergman, Olof F., Gary, Ind. Slice bar and tongs. No. 1,432,952; Oct. 24.
- Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Commutator and the like. No. 1,419,803; June 13.
- Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Electrical system. No. 1,426,947; Aug. 22.
- Bergman, Victor F. (See Koropp, L., and Bergman.)
- Bergman, William G., Toledo, Ohio. Burner. No. 1,411,470; Apr. 4.
- Bergman, William G., Toledo, Ohio. Gas and air reversing valve. No. 1,428,525; Sept. 12.
- Bergmann, Andrew H., New York, N. Y. Toy-house construction. No. 1,425,166; Aug. 8.
- Bergner, John C. (See Sherman, C. H., and Morris, assignors.)
- Bergren, Louis G., San Francisco, Calif. Safety delivery door. No. 1,405,661; Feb. 7.
- Bergseng, John, West Salem, Wis. Removable side attachment for wheelbarrows. No. 1,436,567; Nov. 21.
- Bergstein, Samuel, Middletown, Ohio. Paper box. No. 1,426,948; Aug. 22.
- Bergsten, John, Taft, Calif. Elevator. No. 1,434,673; Nov. 7.
- Bergström, Axel E. T., assignor to Aktiebolaget Patria, Stockholm, Sweden. Calipers, spring calipers, and the like. No. 1,436,143; Nov. 21.
- Bergwell, Fred, assignor to B. D. Weyand, Chicago, Ill. Car-door-locking device. No. 1,434,523; Nov. 7.
- Beristain & Cia. (See Artamendi, Dionisio, assignor.)
- Berkeley, Ida M., et al., administrators. (See Berkeley, Wales O.)
- Berkeley, Laurence J., Milwaukee, Wis. Rail anchor. No. 1,428,578; Sept. 12.
- Berkeley, Laurence J., assignor to Hercules Manufacturing Company, Racine, Wis. Gripping device. No. 1,417,294; May 25.
- Berkeley Light Corporation. (See Wood, William G., assignor.)
- Berkeley, Thomas L., Alexandria, Va. Water-gauge-glass holder. No. 1,407,627; Feb. 21.
- Berkeley, Wales O., deceased, Potsdam, by I. M. Berkeley, Potsdam, and T. T. Hill, Carmel, N. Y., administrators. Repository. No. 1,419,107; June 6.
- Berkey, George P., Appleton, Wis. Method and apparatus for loosening bark from pulp wood. No. 1,402,138; Jan. 3.
- Berkey, Harvey C., Claremont, N. H., assignor to Sullivan Machinery Company. Electric mining apparatus. No. 1,407,119; Feb. 21.
- Berkey, Peter, Chicago, Ill. Egg carton. No. 1,430,617; Oct. 3.
- Berkowitz, Eugene B., Kansas City, Mo. Compartmental container. No. 1,411,833; Apr. 4.
- Berkowitz, Samuel, New York, assignor to himself and Benjamin Lubliner, Brooklyn, N. Y. Overalls. No. 1,418,124; May 30.
- Berlin, Harry, New York, N. Y. Stop motion. No. 1,408,250; Feb. 28.
- Berliner Actiengesellschaft für eisengiesserei und Maschinenfabrikation. (See Gensecke, Wilhelm, assignor.)
- Berlizheimer, David T. (See Josepshs, J., and Berlzheimer.)
- Berlotti, Samuel, St. Louis, Mo. Metallic container. No. 1,426,345; Aug. 22.
- Berlston, Elizabeth. (See Ross, Isidor B., assignor.)
- Berman, Benjamin, Boston, Mass. Key holder. No. 1,412,602; Apr. 11.
- Berman, Harry L., Roxbury, Mass. Key placing and removing tool. No. 1,421,152; June 27.
- Berman, Henry, assignor of one-half to E. Erik, Ossining, N. Y. Sound box. No. 1,423,707; July 25.
- Berman, Louis C., Chicago, Ill. Lifting jack. No. 1,404,735; Jan. 31.
- Berman, Sam, Chicago, Ill. Caster for showcases. No. 1,426,452; Aug. 22.
- Berman, Saul, New York, N. Y. Automobile radiator. No. 1,404,005; Jan. 17.
- Berman, Wolf, New York, N. Y. Sectional inner strip for automobile tires. No. 1,423,748; July 25.
- Berna, Edward G., Rochester, N. Y. Apple-facing device. No. 1,413,957; Apr. 25.
- Bernard, Anthony M., Minneapolis, Minn. Ready opener for gasket-sealed containers. No. 1,436,007; Nov. 21.
- Bernard Company of N. J. (See Flavell, Dennis A., assignor.)
- Bernard, James L., Beaver, Pa. Safety screen. No. 1,422,409; July 11.
- Bernard, Paul, Boulogne-sur-Seine, and M. Barbé, Paris, France. Apparatus for lighting and extinguishing gas burners of street lamps. No. 1,422,249; July 11.
- Bernard, Pierre J. H., Montreal, Quebec, Canada. Electric heating element. No. 1,407,918; Feb. 28.
- Bernard, Pierre J. H., Montreal, Quebec, Canada. Electric heater. No. 1,428,071; Sept. 5.
- Bernard, William A., assignor to The William Schollhorn Company, New Haven, Conn. Hand tool. No. 1,407,780; Feb. 28.
- Bernard y Hernandez, Gustavo, Habana, Cuba. Making bricks and their products. No. 1,430,991; Oct. 3.
- Bernardi, Alfredo, Sandoval, Ill. Automatic railway-car coupling. No. 1,419,009; June 6.
- Bernardini, Luigi. (See Manuelli, C., and Bernardini.)
- Bernardoni, Otto J. (See Calcaterra, J., and Bernardoni.)
- Bernat, Raoul, Bordeaux, France. System of suspension for vehicles. No. 1,436,144; Nov. 21.
- Bernauer, George W., St. Charles, Mo. Stiffening material for shoes. No. 1,426,538; Aug. 22.
- Bernbaum, John W., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car-line construction. No. 1,428,354; Sept. 5.
- Berndt, Herman R., Chicago, Ill. Sled. No. 1,405,262; Jan. 31.
- Berndt, William, assignor of one-half to H. J. Dorweiler, Hamel, Minn. Antiskid device. No. 1,409,278; Mar. 14.
- Berne, Celestin, Bridgeport, Conn. Resilient tire for vehicle wheels. No. 1,410,359; Mar. 21.
- Bernecker, George E., assignor to Standard Accessory Corporation, Milwaukee, Wis. Needle or stylus. No. 1,408,337; Feb. 28.
- Berner, August, Nuremberg, assignor to C. & E. Fein Elektrotechnische Fabrik, Stuttgart, Germany. Rock drill and like cutting machine. No. 1,417,227; May 23.

Alphabetical list of patentees—Continued.

- Bernert, George, assignor to Bernert Manufacturing Company, Milwaukee, Wis. Pneumatic conveyer apparatus. No. 1,420,015; June 20.
- Bernert Manufacturing Company. (See Bernert, George, assignor.)
- Bernhard, Heinrich, and O. Jaeck, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Degumming raw silk in presence of vat-dyed silk. No. 1,409,653; Mar. 14.
- Bernier, Alcide J., Washington, D. C. Aeroplane. No. 1,417,884; May 30.
- Bernstein, Isaac, Alameda, Calif. Pocket. No. 1,426,539; Aug. 22.
- Bernstein, Isaac, Alameda, Calif. Union overalls. No. 1,426,540; Aug. 22.
- Bernstein, Isaac, San Francisco, Calif. Tie holder. No. 1,429,560; Sept. 19.
- Bernstein, Jacob, Omaha, Nebr. Soot collector. No. 1,412,334; Apr. 11.
- Bernstein, Joseph M. (See Epstein, H., Mitnick, and Bernstein.)
- Bernstein, William, Jamaica Plain, Mass. Heel rest. No. 1,431,623; Oct. 10.
- Berond, Victor, Pelican Rapids, Minn. Grave marker. No. 1,425,361; Aug. 8.
- Berriman, Edward C., Chicago, Ill. Measuring instrument. No. 1,435,274; Nov. 14.
- Berriman, Edward C., Chicago, Ill. Tailor's measuring instrument. No. 1,435,275; Nov. 14.
- Berringer, Henry J., San Francisco, Calif. Fender lamp. No. 1,422,528; July 11.
- Berry, Althea T., Wolfeboro, N. H. Innersole. No. 1,412,603; Apr. 11.
- Berry, Arthur V. and E. S., Hebron, Ohio. Gear-shift-locking mechanism. No. 1,407,458; Feb. 21.
- Berry, Byron C. (See Armitage, C. F., Holmes, and Berry.)
- Berry, Charles A., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Machine for duplicating keys. No. 1,408,166; Feb. 28.
- Berry, Charles H., Detroit, Mich. Automatic compensating gauge. No. 1,413,514; Apr. 18.
- Berry, Charles H., Detroit, Mich. Absolute-pressure gauge. No. 1,414,854; May 2.
- Berry, Charles H., Detroit, Mich. Compensating gauge. No. 1,420,953; June 27.
- Berry, Charles M., Kingston Station, Pa. Radiator casing. No. 1,436,853; Nov. 28.
- Berry, Earl E., assignor to American Road Machinery Company, Inc., Kennett Square, Pa. Sand-settling box. No. 1,407,919; Feb. 28.
- Berry, Earle A., Kansas City, Mo. Battery cover. No. 1,419,208; June 13.
- Berry, Edgar H., Chicago, Ill. Loose-leaf filing device. No. 1,403,834; Jan. 17.
- Berry, Edgar H., New York, N. Y. Dispensing device for containers. No. 1,429,561; Sept. 19.
- Berry, Elmer S. (See Berry, Arthur V. and E. S.)
- Berry, Frederick E., Hayes, England. Electrical transformer for regulating or varying the voltage of the current supplied therefrom. No. 1,422,653; July 11.
- Berry, George. (See Houghton, J. E., and Berry.)
- Berry, George W., Erie, Pa. Safety device for dumping vehicles. No. 1,404,684; Jan. 24.
- Berry, George W., Erie, Pa. Packing for hydraulic jacks. No. 1,424,233; Aug. 1.
- Berry, Grant G., Bessemer, Ala. Core for casting iron pipes and means for producing the same. No. 1,429,562; Sept. 19.
- Berry, Harold R., Brooklyn, N. Y. Constructive conversion of hydrocarbons. No. 1,429,910; Sept. 19.
- Berry, Herbert H., London, England. Electric radiator. No. 1,415,770; May 9.
- Berry, Hubert C., Salem, N. J., and G. Applegate, Pennsylvania, N. J., assignors to The J. G. Brill Company, Philadelphia, Pa. Automatic adjustment for brake shoes. No. 1,407,628; Feb. 21.
- Berry, James L. (See Schubert, A. J., and Berry.)
- Berry Machinery & Supply Co., The. (See Berry, Seneca L., assignor.)
- Berry, Mae. (See Berry, William G. and M.)
- Berry, Reni S. (See Kline, Nick W., assignor.)
- Berry, Reni S. (See McGee, W. H., and Berry.)
- Berry, Reni S., Los Angeles, Calif., and E. T. Rushton, assignors to Hercules Products Company, St. Joseph, Mich. Rim tool. No. 1,434,244; Oct. 31.
- Berry, Robert G., assignor to D. W. Ritter, Indianapolis, Ind. Spark plug. No. 1,419,904; June 13.
- Berry, Russell C. (See Cole, Albert L., assignor.)
- Berry, Seneca L., Sunnyvale, Calif. Valve for pressure cookers. No. 1,432,953; Oct. 24.
- Berry, Seneca L., Sunnyvale, assignor to The Berry Machinery & Supply Co., San Jose, Calif. Band-saw guide. No. 1,438,155; Dec. 5.
- Berry, Thomas W., Dorchester, Mass. Sole-leather roller. No. 1,438,689; Dec. 12.
- Berry, Wilbur F., Chicago, Ill. Wheelbarrow. No. 1,407,690; Feb. 28.
- Berry, William, San Diego, Calif. Automobile signal device. No. 1,405,893; Feb. 7.
- Berry, William, Cleveleys, near Blackpool, England. Obtaining of grain and like effect in painting. No. 1,416,325; May 16.
- Berry, William G. and M., Cleveland, Ohio. Internal-combustion-engine piston. No. 1,408,066; Feb. 28.
- Berryhill, James G. (See Reed, Charles J., assignor.)
- Berryman, David, Floral Park, N. Y., assignor to American Telephone and Telegraph Company. Apparatus for molding. No. 1,430,531; Oct. 3.
- Berryman, James H., Snoqualmie Falls, Wash. Lumber trimmer. No. 1,410,156; Mar. 21.
- Bersted, Alfred and M., Chicago, Ill. Phonograph balance-weight-cover support. No. 1,413,382; Apr. 18.
- Bersted, Martin. (See Bersted, Alfred and M.)
- Bersted, Martin C., Chicago, Ill. Carrier attachment for automobile running boards. No. 1,433,773; Oct. 31.
- Bersted, Martin C., Chicago, Ill. Cover support for phonographs. No. 1,433,774; Oct. 31.
- Berthelon, Edmond, Ax-les-Thermes, France. Method and apparatus for obtaining wood products. No. 1,426,346; Aug. 22.
- Bertherman, Henry F., Boston, Mass. Attachment for cigarette packages. No. 1,440,270; Dec. 26.
- Berthold, Edward E., Chicago, Ill. Lost-motion connection for wash machines. No. 1,432,954; Oct. 24.
- Berthold, Edward E., Chicago, Ill. Washing-machine cover. No. 1,433,515; Oct. 24.
- Berthold Gustave W., Chicago, Ill. Automatic reversing mechanism. No. 1,424,797; Aug. 8.
- Berthon, William H. M., London, assignor to Berthon & Co., Streatham, England. Collapsible meat safe or cover. No. 1,437,219; Nov. 28.
- Berthon & Co. (See Berthon, William H. M., assignor.)
- Bertin, Isaac, New York, N. Y. Shopping bag. No. 1,432,150; Oct. 17.
- Bertini, Dante, assignor to The Walter M. Lowney Company, Boston, Mass. Center feeder. No. 1,434,940; Nov. 7.
- Bertolini, Angelo T., New York, N. Y. Light attachment for sewing machines. No. 1,415,771; May 9.
- Bertram, John F., St. Louis, Mo. Churn. No. 1,429,319; Sept. 19.
- Bertrand, Frederic E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sewing machine. No. 1,405,264; Jan. 31.
- Bertrand, Frederic E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel attaching. No. 1,409,359; Mar. 14.
- Bertrand, Frederic E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Turnsole and making same. No. 1,410,157; Mar. 21.
- Bertrand, Frederic E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Thread-waxing device. No. 1,437,127; Nov. 28.
- Bertschert, Christopher, Winnipeg, Manitoba, Canada. Lifeboat. No. 1,437,387; Nov. 28.
- Bertschy, Adolph J. P., Omaha, Nebr. Method and means for carburizing iron, steel, and alloys thereof. No. 1,408,686; Mar. 7.
- Berube, Alfred J., Lyndonville, Vt. Detachable shoe heel. No. 1,435,797; Nov. 14.
- Berwald, William, Rabbitt, Minn. Mirror support. No. 1,419,804; June 13.
- Berwick, Anna E., et al. (See Stasel, S., and Berwick, assignors.)
- Berwick, Daniel. (See Stasel, S., and Berwick.)
- Berwick, Nicholas, et al. (See Stasel, S., and Berwick, assignors.)
- Berwick, William H., Syracuse, N. Y. Pressing element. No. 1,414,007; Apr. 25.
- Berzon, Louis, et al. (See Brezin, Joseph, assignor.)
- Berzon, Louis, et al. (See Berzon, L., and Brezin, assignors.)
- Berzon, Louis, and J. Brezin, assignors of one-third to L. Berzon, one-third to J. Brezin, and one-third to W. Kosakoff, Philadelphia, Pa. Ice-cream-cone-baking machine. No. 1,432,049; Oct. 17.
- Beselin, Raymond L., Omaha, Nebr. Smoker's pipe. No. 1,408,251; Feb. 28.
- Beskov, Bernhard M., Miami, Fla. Receptacle. No. 1,420,906; June 27.
- Besnard, Charles H., assignor to J. P. B. Bessonneau, Paris, France. Building construction. No. 1,419,126; June 13.
- Bessette, Luke E., assignor of one-half to L. S. Crosby, Banff, Alberta, Canada. Extension table. No. 1,431,282; Oct. 10.
- Bessler, Frank E., Akron, Ohio. Resilient wheel. No. 1,414,542; May 2.
- Bessler, Frank E., Akron, Ohio. Tire. No. 1,414,543; May 2.
- Bessler, Frank E., Akron, Ohio. Inner tube. No. 1,419,442; June 13.
- Bessler, Frank E., Akron, Ohio. Inner tube. No. 1,419,443; June 13.
- Bessler, Frank E., Akron, Ohio. Inner tube. No. 1,439,221; Dec. 19.
- Bessler, Frank E., Akron, Ohio, assignor of one-half to A. J. Dellenberger. Tire. No. 1,414,544; May 2.
- Bessolo, William L., San Diego, Calif. Flexible chain wrench. No. 1,415,772; May 9.

- Besson, Marcel M., Boulogne-on-the-Seine, France. Gliding boat. No. 1,413,383; Apr. 18.
- Bessonneau, Julien P. B. (See Besnard, Charles H., assignor.)
- Best, C. L., Gas Traction Company. (See Best, Clarence L., assignor.)
- Best, Clarence L., Elmhurst, assignor to C. L. Best Gas Traction Company, San Leandro, Calif. Sprocket chain. No. 1,424,441; Aug. 1.
- Best, Clarence Leo, Elmhurst, assignor to C. L. Best Gas Traction Company, San Leandro, Calif. Sprocket chain. No. 1,424,442; Aug. 1.
- Best, Edwin J., Woodward, Ala. Automatic revolving dump. No. 1,424,871; Aug. 8.
- Best, Edwin J., Fairfield, Ala. Rotary dump. No. 1,435,691; Nov. 14.
- Best, Fred H., Westfield, N. J., assignor to American Telephone and Telegraph Company. Testing apparatus. No. 1,414,397; May 2.
- Best, Fred H., Westfield, N. J., assignor to American Telephone and Telegraph Company. Electrical testing system. No. 1,432,829; Oct. 24.
- Best, John H., Edmond, Kans. Wire stretcher. No. 1,428,414; Sept. 5.
- Best, Percy H. (See Wilson, E. R., and Best.)
- Best, W. N., Inc. (See Best, William N., assignor.)
- Best, William N., Brooklyn, assignor to W. N. Best, Inc., New York, N. Y. Liquid-fuel-burning apparatus. No. 1,407,511; Feb. 21.
- Bestimt, Samuel, New York, N. Y. Baby-carriage seat. No. 1,409,331; Mar. 14.
- Betcher, Gottfried, Portland, Oreg. Logging hook. No. 1,423,301; July 18.
- Beth, Wilhelm F. L., Lubeck, Germany. Shaking device for cleaning filters. No. 1,433,115; Oct. 24.
- Bethel, Claude, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Gear case. No. 1,419,351; June 13.
- Bethenod, Joseph, Paris, France. Radiotelegraphic coupling. No. 1,427,350; Aug. 29.
- Bethenod, Joseph, Paris, France. Radiotelegraphic coupling. No. 1,432,438; Oct. 17.
- Bethge, Fred L., and J. W. Storer, assignors to R. M. Aitkin, Denver, Colo. Auxiliary lock for bolts. No. 1,436,620; Nov. 21.
- Bethke, Bernhard, assignor to Luther Grinder Mfg. Co., Milwaukee, Wis. Clamping support for grinding machines. No. 1,404,337; Jan. 24.
- Bethke, John P., and R. H. Stearns, Milwaukee, Wis. Magnetic separating process and apparatus. No. 1,414,170; Apr. 25.
- Bethke, John P., and R. H. Stearns, assignors to Magnetic Manufacturing Co., Milwaukee, Wis. Magnetic pulley. No. 1,407,051; Feb. 21.
- Bethke, Leo, assignor to Chain Belt Company, Milwaukee, Wis. Sprocket chain. No. 1,426,248; Aug. 15.
- Bethlehem Foundry & Machine Company. (See Lehman, John G., assignor.)
- Bethlehem Shipbuilding Corporation. (See Chapman, Edward H., assignor.)
- Bethlehem Shipbuilding Corporation. (See Neitzel, Frank E., assignor.)
- Bethlehem Steel Company. (See Hohl, George M., assignor.)
- Bethlehem Steel Company. (See Lachman, Maurice, assignor.)
- Bethlehem Steel Company. (See Madden, J. P., and Fisher, assignors.)
- Bethlehem Steel Company. (See Sylvester, John M., assignor.)
- Betry, Owen C. (See Lake, H. M., and Betry.)
- Bett, David M., Caulfield, Victoria, Australia. Automatic fire extinguisher. No. 1,411,903; Apr. 4.
- Bettenhausen, Charles C., Princeton, Nebr. Crank-pin sleeve. No. 1,418,519; June 6.
- Bettison, David C., Omaha, Nebr. Wrench. No. 1,419,659; June 13.
- Betton, James M. (See Cary, S. C., and Betton.)
- Betts Electric & Manufacturing Corporation. (See Underhill, Charles R., assignor.)
- Betts, George F. (See Gregory, H. W., and Betts.)
- Betts, May R., et al. (See Robinson, Major J., assignor.)
- Betts Sole Protector Company. (See Betts, William H., assignor.)
- Betts, William H., St. Louis, Mo. Sole protector. No. 1,418,425; June 6.
- Betts, William H., Portland, Oreg. Screen gasket. No. 1,422,916; July 18.
- Betts, William H., assignor to Betts Sole Protector Company, St. Louis, Mo. Sole protector. No. 1,428,072; Sept. 5.
- Betz, Eugene, Newark, assignor to one-half to H. Kopp, Orange, N. J. Razor-blade holder. No. 1,418,694; June 6.
- Betzell, William F., Washington, D. C. Vehicle wheel. No. 1,415,427; May 9.
- Beuc, Jacob. (See Mesker, F., and Beuc.)
- Beuc, Jacob, St. Louis, Mo. Engine piston. No. 1,407,629; Feb. 21.
- Beuchel, Theodore W. (See Schmidt, L. L., Beuchel, and Ottwell.)
- Beuler, Harvey L., Lake Park, Minn. Potato cutter. No. 1,422,731; July 11.
- Beugler, Edwin F., assignor to E. & B. Holmes Machinery Co., Buffalo, N. Y. Machine for heading up barrels. No. 1,404,923; Jan. 31.
- Beuning, Henry, Freeport, Minn. Quack-grass destroyer. No. 1,429,563; Sept. 19.
- Beurdeley, André, Paris, France. Artificial leg. No. 1,407,369; Feb. 21.
- Beutel, Frederick C., et al. (See Ziegler, George J., assignor.)
- Bevan, Daniel, Pembrey, Wales. Portable farm crane. No. 1,438,292; Dec. 12.
- Bevel, Jack H., Dallas, Tex. Measuring device. No. 1,417,021; May 23.
- Beverage, Harold H., Riverhead, N. Y., assignor to General Electric Company. Radioreceiving system. No. 1,434,984; Nov. 7.
- Beverage, Harold H., Riverhead, N. Y., assignor to General Electric Company. Radioreceiving system. No. 1,434,985; Nov. 7.
- Beverage, Harold H., Riverhead, N. Y., assignor to General Electric Company. Radioreceiving system. No. 1,434,986; Nov. 7.
- Bevere, Andrew, G. Greco, and A. G. Rizzolo, Newark, N. J. Locking device. No. 1,408,854; Mar. 7.
- Beverly, Fred P., and C. Caldwell, Kaufman, Tex. Car brake. No. 1,430,487; Sept. 26.
- Bevier, Philip H., Brooklyn, N. Y. Hollow building block. No. 1,419,713; June 13.
- Bevier, Philip H., Brooklyn, N. Y. Reinforced floor construction. No. 1,432,100; Oct. 17.
- Beville, Webster J., London, England. Illuminated apparatus for displaying and advertising purposes. No. 1,419,899; June 13.
- Beville, Webster J., London, England. Illuminated sign or advertisement. No. 1,430,147; Sept. 26.
- Bevins, Edward C., Cleveland, Ohio. Inflating coupling. No. 1,416,781; May 23.
- Beyea, Frank H., Akron, Ohio. Manufacturing cable beads or grommets. No. 1,429,123; Sept. 12.
- Beyea, Frank H., Akron, Ohio. Manufacturing cable beads or grommets. No. 1,429,124; Sept. 12.
- Beyer, Clarence B., Albuquerque, N. Mex., assignor of three-eighths to P. G. Redington, and one-fourth to F. L. McNama, Albuquerque, N. Mex. Tripping device. No. 1,416,161; May 16.
- Beyer, Otto S., Brooklyn, assignor to E. W. Bliss Company, New York, N. Y. Drawing press. No. 1,433,116; Oct. 24.
- Beyer, Peter G. G., Chailattenlund, Denmark. Cryptographic typewriter. No. 1,414,496; May 2.
- Beyermann, Hugo F., Chicago, Ill. Fountain hairbrush. No. 1,413,384; Apr. 18.
- Beynon, Harry A., Kansas City, Mo. Auto-seat ventilator back. No. 1,412,037; Apr. 11.
- Bezenberger, Edward N. (See Cox, Edward, assignor.)
- Biach, Ludwig K., New Haven, Conn. Apparatus for and method of dyeing material. No. 1,415,513; May 9.
- Bialy, Pete. (See Mark, L., and Bialy.)
- Bianchi y Reche, Fernando, Madrid, Spain. Office desk. No. 1,421,564; July 4.
- Bibb & Caven et al. (See Boudreaux, Theodore, assignor.)
- Bibicos, Theodore, Cleveland, Ohio. Shoe heel. No. 1,419,444; June 13.
- Bichunsky, Harry, Newark, N. J. Radiator for automobiles and the like. No. 1,403,226; Jan. 10.
- Bickel, Henry F. (See Minnier, B. J., and Bickel.)
- Bickel, Henry F., Plainfield, N. J., and B. J. Minnier, Watertown, N. Y. Dust collector. No. 1,420,954; June 27.
- Bickford, Oramel S., Greenfield, Mass. Machine for grinding taps. No. 1,402,473; Jan. 3.
- Bickle, William L., Manhasset, N. Y. Fuel-feeding device. No. 1,436,568; Nov. 21.
- Bickley, Allen, Sandusky, Ohio. Coating composition. No. 1,432,523; Oct. 17.
- Bickley, Ross M., assignor to Heyl & Patterson, Inc., Pittsburgh, Pa. Picking table. No. 1,425,441; Aug. 8.
- Bidaud, Florentin, Lyon, France, assignor to Societe Chimique des Usines du Rhone (anciennement Gilliard P. Monnet & Cartier), Paris, France. Process for the manufacture of aromatic oxaldehyde. No. 1,418,904; June 6.
- Biddle, Arthur, Trenton, N. J., assignor to United Products Corporation of America. Fire-extinguishing composition. No. 1,428,207; Sept. 5.
- Biddle, Arthur, Trenton, N. J., assignor to United Products Corporation of America. Caoutchouc composition. No. 1,437,487; Dec. 5.
- Biderman, Julius, New York, N. Y. Comb. No. 1,425,937; Aug. 15.
- Bidwell, Earl E., assignor of forty-five one-hundredths to P. Quisenberry, Frederick, Okla. Packing means for rotary engines. No. 1,424,977; Aug. 8.
- Bidwell, Earl E., assignor of forty-five one-hundredths to P. Quisenberry, Frederick, Okla. Internal-combustion rotary engine. No. 1,427,053; Aug. 22.
- Bidwell, Paul W., Easthampton, assignor to B. F. Perkins & Son, Inc., Holyoke, Mass. Cloth-piling machine. No. 1,432,955; Oct. 24.
- Bieber, Nathan, Poland, Ohio. Loader for corn binders. No. 1,426,347; Aug. 22.
- Biebow, William E., Los Angeles, Calif. Hydrometer. No. 1,405,094; Jan. 31.

Alphabetical list of patentees—Continued.

- Biedermann, Hugo F., Tuscaloosa, Ala. Sawmill set-works. No. 1,412,797; Apr. 11.
- Biedinger, Harry E., East Chicago, Ind. Cushioning device for vehicles. No. 1,410,645; Mar. 28.
- Biehl, Bernard, Sr., Newark, N. J., assignor to J. I. Sommer Manufacturing Co. Key case. No. 1,418,059; May 30.
- Biehn, Hobart G. (See Neumeyer, Horace F., assignor.)
- Biehn, Joseph F., assignor to The Abbott Laboratories, Chicago, Ill. Closure for hypodermic-solution containers. No. 1,413,703; Apr. 25.
- Bielmann, Otto, Magdeburg, Germany. Making juices, jellies, and jams from vegetable substances such as fruits and vegetables. No. 1,429,834; Sept. 19.
- Bienefeld, Jacques. (See Gerber, Charles, assignor.)
- Bienert, Herman L., Brooklyn, N. Y. Garment hanger. No. 1,429,835; Sept. 19.
- Bienstock, Anna E., Newark, N. J. Mop. No. 1,406,966; Feb. 21.
- Bienvenüe, Joseph. (See Bienvenüe, René and J.)
- Bienvenüe, René and J., Paris, France. Current collector for railway vehicles. No. 1,428,133; Sept. 5.
- Bienz, Charles, St. Jean, Geneva, Switzerland. Slide valve. No. 1,411,153; Mar. 28.
- Biernd, Max F., Miami, Fla. Egg container. No. 1,416,934; May 23.
- Biersdorf, Herman R. (See Hunt, T., and Biersdorf.)
- Biery, Harvey V., Oklahoma, Okla. Rotary photogravure press. No. 1,421,360; July 4.
- Biesemeyer, Henry L., Topeka, Kans. Combined curtain and shade bracket. No. 1,437,288; Nov. 28.
- Biette, Henry C., Pittsburgh, Pa. Percolator. No. 1,405,662; Feb. 7.
- Bieuville, Marcel, Bellevue, France. Drawing apparatus utilizing parallel movements. No. 1,408,252; Feb. 28.
- Biflex Products Company. (See Evelyn, Harry C., assignor.)
- Bifex Products Company. (See Grotenhuis, William J., assignor.)
- Bifex Products Company. (See Pancoast, W. G., and Grotenhuis, assignors.)
- Bigelow, Leroy E., Medford, Oreg. Throttle-valve lock for motor vehicles. No. 1,403,379; Jan. 10.
- Big-Four Electric Company. (See Holmes, Andrew J., assignor.)
- Biggerstaff, Frank G., Kansas City, Mo. Harrow. No. 1,422,173; July 11.
- Biggs, Charles L., Meridian Tenn. Mail delivery and receiving device. No. 1,425,167; Aug. 8.
- Biggs, Robert H., St. Catherine's, Ontario, Canada. Advertising device for paper-tape magazine holders. No. 1,409,654; Mar. 14.
- Biggs, Theodore J. (See Baker, F. E., and Biggs.)
- Biggs, Thomas A., Sioux City, Iowa. Container car. No. 1,432,151; Oct. 17.
- Biggs, William A., Meridian, Miss. Wheel antislipping attachment. No. 1,418,060; May 30.
- Bigler, Albert D., Clearfield, Pa. Brick wall construction. No. 1,419,805; June 13.
- Bigmore, Cyril F., London, England. Mechanical race-game apparatus. No. 1,436,935; Nov. 28.
- Bignell, Edward, Lincoln, assignor to Concrete Piling Company, Seward, Nebr. Method and means for current and channel control in moving bodies of water. No. 1,409,140; Mar. 7.
- Bignell, Edward, Lincoln, assignor to Concrete Piling Company, Seward, Nebr. Construction of and sinking piles. No. 1,435,144; Nov. 14.
- Bignell, Gerald, Chicago, Ill. Lubricator. No. 1,435,276; Nov. 14.
- Bigney, S. O., & Company. (See Grant, Herbert G., assignor.)
- Bigot, Alexandre, Paris, France. Furnace, kiln, or the like. No. 1,404,427; Jan. 24.
- Bihler, Albert E., Omaha, Nebr. Traction appendage for wheel tires. No. 1,407,832; Feb. 28.
- Bihn, William H., Petaluma, Calif. Egg turner. No. 1,422,250; July 11.
- Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Engine starting device. (Reissue.) No. 15,403; July 11.
- Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Starting apparatus for airplane engines and the like. No. 1,429,670; Sept. 19.
- Bijur, Joseph, New York, N. Y., assignor to Bijur Motor Appliance Company. Starting apparatus for airplane engines and the like. No. 1,429,671; Sept. 19.
- Bijur Motor Appliance Company. (See Bijur, Joseph, assignor.) (Reissue.)
- Bijur Motor Appliance Company. (See Wolffsohn, Lionel M., assignor.)
- Bijur Motor Appliance Company. (See Woolson, Lionel M., assignor.)
- Biles, David H., et al. (See Hartin, Robert C., assignor.)
- Bilger, Samuel B., Buckingham, Pa. Piano hoist. No. 1,428,875; Sept. 12.
- Bilger, Walter A., and A. C. Walker, assignors to The American Pulley Company, Philadelphia, Pa. Ladder and manufacturing the same. No. 1,422,654; July 11.
- Billar, David, assignor to Siemens-Marshall Electric Company, St. Louis, Mo. Lighting fixture for show cases and the like. No. 1,435,798; Nov. 14.
- Billing, Herman. (See Kimmel, G. C., and Billing.)
- Billingham, Milton C. J., Kalamazoo, Mich. Paper-stock-treating machine. No. 1,420,362; June 20.
- Billingham, Milton C. J., assignor of one-half to H. L. Vander Horst, Kalamazoo, Mich. Method of and apparatus for disintegrating paper stock. No. 1,422,251; July 11.
- Billings, Cecil M., Brooklyn, N. Y. Axle construction. No. 1,418,276; June 6.
- Billings, Cecil M., Brooklyn, assignor to Delmore Manufacturing Co., Inc., New York, N. Y. Crank-shaft construction. No. 1,412,604; Apr. 11.
- Billings, Frank. (See Greenleaf, Robert P., assignor.)
- Billings, Frank, and R. P. Greenleaf, Cleveland, Ohio; said Greenleaf assignor to said Billings. Loading machine. No. 1,420,681; June 27.
- Billings, J. R., Iron & Steel Company. (See Billings, James R., assignor.)
- Billings, James R., assignor to J. R. Billings Iron & Steel Company, Chicago, Ill. Purifying cast iron and eliminating objectionable gases and oxides. No. 1,412,077; Apr. 11.
- Billings, William J. (See Cleeve, Henry F., assignor.)
- Billings, William W., Lakewood, assignor to The B. & W. Tool & Die Co., Cleveland, Ohio. Electromagnetic motor. No. 1,436,335; Nov. 21.
- Billings & Spencer Company, The. (See Adams, Harold L., assignor.)
- Billingsley, Henry A., Covington, Ohio. Self-feeding attachment for ensilage cutters. No. 1,416,251; May 16.
- Billingsley, Percy L., Orlando, Fla. Flexible operating mechanism. No. 1,424,148; Aug. 1.
- Billingsly, Sterling T. (See Nichols, J. S., Billingsly, and Scoggins.)
- Billington, John E., Altrincham, assignor to Linotype and Machinery Limited, London, England. Distributing mechanism of typographical composing and casting machines. No. 1,427,511; Aug. 29.
- Billman, Obed C. (See Myers, C. G., and Billman.)
- Billon, Frederic. (See Schneider, J., Hurlimann, and Billon.)
- Billon, Frederic, Solothurn, Switzerland. Electric ignition apparatus. No. 1,428,134; Sept. 5.
- Billon, Frederic, assignor to Firm Scintilla, Solothurn, Switzerland. Electric starter for internal-combustion engines. No. 1,416,326; May 16.
- Billon, Marcel. (See Dufay, F., and Billon.)
- Bills, Alexander, Homestead, Oreg. Portable reciprocating saw machine. No. 1,428,208; Sept. 5.
- Bills, Wilmont. (See Fowle, C. L., and Bills.)
- Bilteman, John A., Albia, Iowa. Nut lock. No. 1,409,817; Mar. 14.
- Bilteman, John A., Albia, and W. J. Smith, Ottumwa, Iowa. Automobile bumper. No. 1,435,100; Nov. 7.
- Bilton Machine Tool Company, The. (See Hoagland, Frank O., assignor.)
- Bium, Georges R., Aubervilliers, France. Electrically-operated vacuum cleaner. No. 1,415,773; May 9.
- Bimson, Alfred G., Berthoud, Colo. Beet harvester. No. 1,410,880; Mar. 28.
- Binder, Homer P., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Hydraulic machine. No. 1,404,712; Jan. 24.
- Binder, Louis, Newark, N. J. Box and making the same. No. 1,417,295; May 23.
- Binder, Louis, Newark, N. J. Box fastening. No. 1,417,296; May 23.
- Bindon, George H., Ottawa, Ontario, Canada. Electric cooker. No. 1,428,825; Sept. 12.
- Bindschelder, Theodore S., assignor of one-half to A. B. Frederick, Detroit, Mich. Magnetic balance. No. 1,428,833; Sept. 12.
- Bindschelder, Theodore S., assignor to Burroughs Adding Machine Company, Detroit, Mich. Device for operating adding machines and the like. No. 1,436,639; Nov. 28.
- Binfeld, Joel, and W. S. Kenmare, N. Dak. Automatic speed governor. No. 1,433,596; Oct. 31.
- Binfeld, Willard S. (See Binfeld, Joel and W. S.)
- Bing, Julius, Eisenbach, Germany. Machine for reducing turning chips and the like. No. 1,415,861; May 16.
- Bing-Werke, vorm. Gebr. Bing A.-G. (See Grützmann, Heinrich, assignor.)
- Bing-Werke, vormals Gebr. Bing Aktiengesellschaft. (See Augustin, Wilhelm, assignor.)
- Bing, William S., San Diego, Calif. Printing device. No. 1,437,711; Dec. 5.
- Bingaman, Raymond A., Batavia, Ohio. Advertising device. No. 1,422,529; July 11.
- Bingay, Robert V., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Transformer-tank base. No. 1,403,478; Jan. 17.
- Bingay, Robert V., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Safety valve or blow-off. No. 1,415,216; May 9.
- Bingay, Robert V., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Welded structure and forming same. No. 1,420,016; June 20.

- Bingay, Robert V., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Transformer. No. 1,421,899; July 4.
- Bingay, Robert V., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Transformer construction. No. 1,425,504; Aug. 15.
- Bingay, Robert V., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Radiator. No. 1,437,039; Nov. 28.
- Binger, Gustav H., Topeka, Kans. Vise spreader. No. 1,405,263; Jan. 31.
- Bingham, Forrest E., New Bedford, Mass. Blowtorch. No. 1,425,362; Aug. 8.
- Bingham, Forrest E., and T. Tomlinson, New Bedford, Mass. Spooling-machine tension device. No. 1,408,560; Mar. 7.
- Bingham, George C., assignor of one-half to E. E. Bentall, Maldon, England. Liquid-fuel internal-combustion engine. No. 1,410,241; Mar. 21.
- Bingham, Jeremiah, assignor to The Bock Bearing Company, Toledo, Ohio. Roller bearing. No. 1,416,680; May 23.
- Bingham, Theron R., Enid, Okla. Antiskid device. No. 1,412,832; Apr. 18.
- Bingman, John, Mount Tabor, Wis. Attachment for hydrocarbon containers. No. 1,424,068; July 25.
- Bink, Anthony, Stockton, Calif. Boat propeller. No. 1,412,229; Apr. 11.
- Binkis, Paul E., Greenport, N. Y. Ring knife. No. 1,432,316; Oct. 17.
- Binkley, Kenneth L., New York, N. Y., assignor to The Barrett Company. Plastic composition. No. 1,418,905; June 6.
- Binkley, Martin L., Lima, Ohio. Building block. No. 1,430,431; Sept. 26.
- Binks, Harry D., River Forest, Ill. Two-fluid spray nozzle. No. 1,433,255; Oct. 24.
- Binmore, Charles J., Montreal, Quebec, Canada. Cultivating implement. No. 1,419,953; June 20.
- Binnie, John S., Kilmacoll, Scotland. Turbine. No. 1,409,074; Mar. 7.
- Binns, William, Bradford, assignor of one-half to J. D. Mander, Bingley, York, England. Textile spinning, drawing, slubbing, roving, and the like machine. No. 1,435,912; Nov. 21.
- Binz, Arthur. (See Kolle, W., and Binz.)
- Biondo, Carmelo, Boston, Mass. Waterproofing cloth. No. 1,432,833; Oct. 24.
- Bippart, Achill, East Orange, N. J. Jewelry coupling. No. 1,421,388; July 4.
- Bippart, Griscom & Osborn. (See Buckman, Edward H., assignor.)
- Birch, Chester W., Chicago, Ill. Swing hanger. No. 1,419,806; June 13.
- Birch, Gustaf B. (See Cameron, J. A., and Birch.)
- Birchbauer, Ferdinand, assignor of one-half to J. H. Fallin, Baltimore, Md. Internal-combustion engine. No. 1,423,477; July 18.
- Bircher Co., The. (See Keiser, Arthur J., assignor.)
- Birchman, Andrew, G. O. Matter, and J. H. McCoy, assignors to Universal Nut Lock Company, Portland, Oreg. Nut lock. No. 1,424,978; Aug. 8.
- Birchy, Roy O., et al. (See Busby, Robert S., assignor.)
- Bird, A. M. (See Conley, Joseph M., assignor.)
- Bird, Arthur. (See Fisher, Lawrence W., assignor.)
- Bird, Charles S., Walpole, Mass. Cover board for shingle bundles and the like. No. 1,429,836; Sept. 19.
- Bird, Edward S. (See Cockburn, F. B., and Bird.)
- Bird, George W., Pittsburgh, Pa. Railway car. No. 1,435,198; Nov. 14.
- Bird, John, Kansas City, Mo. Cooling, heating, and ventilating apparatus. No. 1,409,520; Mar. 14.
- Bird, Lester F., Seattle, Wash. Inductance. No. 1,439,995; Dec. 26.
- Bird, Lester F., Seattle, Wash. Flexible mounting means. No. 1,439,996; Dec. 26.
- Bird, Lester F., Seattle, Wash. Insulation mounting. No. 1,439,997; Dec. 26.
- Bird, Peter E., Jenkintown, assignor to Automatic Machinery & Equipment Company, Philadelphia, Pa. Coining and dies therefor. No. 1,434,190; Oct. 31.
- Bird, Walter, Morilton, Ark. Dasher mechanism for churns. No. 1,420,955; June 27.
- Birdsboro Steel Foundry & Machine Company. (See Lausucq, Henri P. L., assignor.)
- Birdsey, Charles R., Hinsdale, assignor to United States Gypsum Company, Chicago, Ill. Plaster board. No. 1,406,967; Feb. 21.
- Birdsey, Charles R., Hinsdale, assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill. Calcining gypsum rock and the like. No. 1,412,203; Apr. 11.
- Birdsey, Charles R., Hinsdale, assignor to United States Gypsum Company, Chicago, Ill. Plaster board. No. 1,427,939; Sept. 5.
- Birdsey, Charles R., Hinsdale, assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill. Load-supporting building tile. No. 1,428,623; Sept. 12.
- Birdsey, Charles R., Hinsdale, assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill. Plaster board. No. 1,428,624; Sept. 12.
- Birdsong, Richard E., Macon, Ga. Safety tractor coupling. No. 1,413,252; Apr. 18.
- Birdzell, John W., Arkansas City, Kans. Antiskid and pull-out device for automobiles. No. 1,439,684; Dec. 26.
- Birgbauer, Conrad, Detroit, Mich. Wheel dresser. No. 1,427,573; Aug. 29.
- Birgh, John B., Chicago, Ill. Roller bearing. No. 1,410,988; Mar. 28.
- Birgh, John B., Chicago, Ill. Roller bearing. No. 1,418,277; June 6.
- Birkeland, Ingolf, Fort Benton, Mont. Grain stacker. No. 1,430,784; Oct. 3.
- Birkenmaier, Theodore, assignor to W. N. Matthews and Brother, Inc., St. Louis, Mo. Spray gun. No. 1,436,145; Nov. 21.
- Birket, William E., Peoria, Ill. Sound recording and reproducing machine. No. 1,422,022; July 4.
- Birkigt, Marc, Bois-Colombes, France. Control device for spring-mounted members. No. 1,437,220; Nov. 28.
- Birmingham Iron Foundry. (See Gordon, William A., assignor.)
- Birmingham, Michael R., Yonkers, N. Y. Pile-fabric loom. No. 1,407,121; Feb. 21.
- Birmingham Motors. (See Weaver, Caius E., assignor.)
- Birmingham Small Arms Company, The. (See Drummond, Arthur, assignor.)
- Birnstock, William W., assignor to York Milk Machinery Company, York, Pa. Bottle-washing machine. No. 1,435,046; Nov. 7.
- Birosak, Stephen S. K., Bridgeport, Conn. Toy. No. 1,422,334; July 11.
- Birosh, John W., Brownsville, Pa. Safety device for aeroplanes. No. 1,428,135; Sept. 5.
- Birtman Electric Company. (See Hardin, R. S., and Wiehle, assignors.)
- Bisaillon, Hector E. (See Mills, W. S., and Bisaillon.)
- Bisbing, Ingham W., Colwyn, Pa. Bedcover-holding device. No. 1,438,475; Dec. 12.
- Bischof, Bernhard, Geneva, Switzerland. Device for preventing the penetration of air into centrifugal pumps. No. 1,421,389; July 4.
- Bischoff, Walter O., Chicago, Ill. Automobile control pedal. No. 1,432,379; Oct. 17.
- Bisey, Sunker A., New York, N. Y. Spiritualistic communication apparatus. No. 1,420,956; June 27.
- Bisey, Sunker A., New York, N. Y. Line-slug-casting machine. No. 1,423,388; July 18.
- Bishop, Addison, St. Louis, Mo. Pop-corn-candy mixer. No. 1,404,838; Jan. 24.
- Bishop, Charles W., Los Angeles, Calif. Shock absorber. No. 1,425,831; Aug. 15.
- Bishop, George E., Cleveland, Ohio. Automobile inclosure. No. 1,425,442; Aug. 8.
- Bishop, George E., Cleveland, Ohio. Automobile curtain. No. 1,425,443; Aug. 8.
- Bishop, George E., Cleveland, Ohio. Automobile inclosure. No. 1,425,444; Aug. 8.
- Bishop, George E., Cleveland, Ohio. Automobile inclosure. No. 1,425,445; Aug. 8.
- Bishop, James S., Cincinnati, Ohio. Camera. No. 1,415,514; May 9.
- Bishop, John A., Clearwater, Fla. Oil-burning apparatus. No. 1,420,957; June 27.
- Bishop, Joseph W., Muskegon, Mich., assignor to The Brunswick-Balke-Collerander Company, Chicago, Ill. Machine for making battery jars and other hard-rubber receptacles. No. 1,407,979; Feb. 28.
- Bishop, Joseph W., Muskegon, Mich., assignor to The Brunswick-Balke-Collerander Company, Chicago, Ill. Machine for making battery jars. No. 1,407,980; Feb. 28.
- Bishop, Newton J., Washington, D. C. Gate. No. 1,423,929; Oct. 31.
- Bishop, Newton J., Washington, D. C. Window-sash holder. No. 1,433,930; Oct. 31.
- Bishop, Newton J., Washington, D. C. Window lock. No. 1,433,931; Oct. 31.
- Bishop, Peter A., Fall River, Mass. Tension device. No. 1,433,495; Oct. 24.
- Bishop, Ralph E., Indianapolis, Ind. Time meter. No. 1,414,855; May 2.
- Bishop, Thomas H., assignor to The Line-A-Time Mfg. Co., Inc., Rochester, N. Y. Book-holding copyholder. No. 1,428,937; Sept. 12.
- Bishop, Thomas H., assignor to The Line-A-Time Co., Inc., Rochester, N. Y. Copyholder. No. 1,428,938; Sept. 12.
- Bishop, William E., Kansas City, Kans. Stamping machine. No. 1,416,442; May 16.
- Bishop and Babcock Company, The. (See Weatherhead, E. H., and Patton, assignors.)
- Bissell, Carl H., assignor to Grouse-Hinds Company, Syracuse, N. Y. Housing and switch-operating means for lamp sockets. No. 1,408,855; Mar. 7.
- Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Extension for conduit outlet boxes. No. 1,424,443; Aug. 1.
- Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Portable electric lamp. No. 1,426,707; Aug. 22.
- Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Electric switch. No. 1,430,718; Oct. 3.
- Bissell Carpet Sweeper Company. (See Owen, Ira J., assignor.)
- Bissell, Don W. (See Cutrona, D. J., McCann, and Bissell.)
- Bissell, William H., et al. (See Fredrick, Hugo E., assignor.)

Alphabetical list of patentees—Continued.

- Bissell, William H., et al. (See Fredrick, Hugo E. J., assignor.)
- Bisset, David L., assignor to P. Lyall & Sons Construction Company, Limited, Montreal, Quebec, Canada. Chuck. No. 1,426,541; Aug. 22.
- Bither, Frederick H., assignor to American Box Board Company, Grand Rapids, Mich. Connecting and corrugating paper. No. 1,410,879; Mar. 28.
- Bitonti, Salvatore fu A., Clarksburg, W. Va. Fish trap. No. 1,412,649; Apr. 11.
- Bitschkus, Maximo, Santiago, Chile. Tire cover. No. 1,437,791; Dec. 5.
- Bittaker, Harvey J., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Expandable core for vulcanizing tires. No. 1,407,718; Feb. 28.
- Bittel, Edward, Forest Park, Ill. Faucet. No. 1,428,826; Sept. 12.
- Bittel, Martin G. (See Furness, R., and Bittel.)
- Bitterman, Simon. (See Nowlan, John B., assignor.)
- Bitting, John E., Los Angeles, Calif. Post preserver. No. 1,419,108; June 6.
- Bittner, Attalus C., Clinton, Iowa. Conical or cylinder grinding mill. No. 1,430,432; Sept. 26.
- Bi-View, Limited. (See Sutphen, Robert M., assignor.)
- Bixler, L. B. Henry, and W. L., Fresno, Calif. Garment conveyor. No. 1,420,907; June 27.
- Bixler, William D., Oklahoma, Okla. Poultry-carrying body. No. 1,432,439; Oct. 17.
- Bixler, William L. (See Bixler, L. B. Henry, and W. L.)
- Bjerre, Gravers J., Copenhagen, Denmark. Electric resistance for regulating the candlepower of electric incandescent lamps. No. 1,428,834; Sept. 12.
- Björkgren, Johan F., Holmgastr, Falun, Sweden, assignor, by mesne assignments, to Regulax Engine Corporation. Regulating mechanism for controlling the supply of fuel to internal-combustion engines. No. 1,410,360; Mar. 21.
- Bjorkman, Axel W., Brooklyn, N. Y. Soldering device. No. 1,422,917; July 18.
- Bjorlin, Harold E., Duluth, Minn. Bread-slicing machine. No. 1,420,235; June 20.
- Björnstad, Jörgen, Reading, England. Reciprocating pump. No. 1,413,568; Apr. 25.
- Blabon, George W., Company, The. (See Tamberlin, John, assignor.)
- Blache, Hans H., Hellerup, near Copenhagen, Denmark. Cooling of pistons and piston rods. No. 1,412,835; Apr. 18.
- Blache, Hans H., Copenhagen, Denmark. Piston rod for double-acting internal-combustion engines. No. 1,439,398; Dec. 19.
- Blacher, Samuel, assignor to Joseph E. Miller, Incorporated, Providence, R. I. Collar button. No. 1,414,617; May 2.
- Black, Alvin L., Alto, Tex. Amusement device. No. 1,427,775; Sept. 5.
- Black, C. H., et al. (See Gunn, Charles H., assignor.)
- Black, Donald W., Somerville, Mass. Centrifugal paint mixing or smoothing machine. No. 1,436,692; Nov. 28.
- Black, George A., et al. (See Newkirk, William P., assignor.)
- Black, Harvey B., Bogota, N. J. Explosive engine. No. 1,424,798; Aug. 8.
- Black, John C., Beverly Hills, Calif. Production of low-boiling-point hydrocarbon. No. 1,426,813; Aug. 22.
- Black, John C., Destrehan, La. Process and apparatus for treating hydrocarbons to produce those of lower boiling points. No. 1,431,772; Oct. 10.
- Black, John M., Sr., Harrisburg, Pa. Blacksmith's tongs. No. 1,420,516; June 20.
- Black, John Q., and J. W. and J. H. Blazer, Nashville, Tenn. Renovating. No. 1,412,503; Apr. 11.
- Black, Lee J., Beaumont, Tex. Hydraulic swivel. No. 1,408,975; Mar. 7.
- Black, Lester S., White Pigeon, Mich. Barrier gate. No. 1,416,162; May 16.
- Black, Reginald A. W., Winnipeg, Manitoba, Canada. Separation of magnesia from lime and preparation of water therefor. No. 1,436,230; Nov. 21.
- Black, Walter G. (See York, Victor, assignor.) (Re-issue.)
- Black, Walter G., Whittier, Calif. Shock absorber. No. 1,436,079; Nov. 21.
- Black, William A., Asheville, N. C. Thermometer holder case. No. 1,405,709; Feb. 7.
- Blackall, Clarence H., Cambridge, Mass. Building construction. No. 1,430,931; Oct. 3.
- Blackburn Aeroplane & Motor Company Limited, The. (See Thornton, Arthur C., assignor.)
- Blackburn, Arthur H., Downers Grove, Ill., assignor to The Under-Feed Stoker Company of America, Chicago, Ill. Furnace. No. 1,404,568; Jan. 24.
- Blackburn, Arthur H., Downers Grove, Ill., assignor to The Under-Feed Stoker Company of America, Chicago, Ill. Underfeed furnace. No. 1,404,569; Jan. 24.
- Blackburn, Edward E., assignor to Hoosier Stove Company, Marion, Ind. Stove door. No. 1,428,579; Sept. 12.
- Blackburn, Frank C., Malta Bend, Mo. Teakettle and other boiling receptacle. No. 1,435,579; Nov. 14.
- Blackburn, Guy W., assignor to Elgin Silver Plate Company, Elgin, Ill. Coffin handle. No. 1,402,041; Jan. 3.
- Blackburn, Henry F., and W. J. Cummings, Breckenridge, Tex. Oil-discharge jet. No. 1,412,267; Apr. 11.
- Blackburn, Jasper, Webster Groves, Mo. Earth anchor. No. 1,407,920; Feb. 28.
- Blackburn, Jasper, Webster Groves, assignor to The Blackburn Patent Steering Wheel Company, St. Louis, Mo. Controlling device for automobiles. No. 1,418,278; June 6.
- Blackburn, Jasper, Webster Groves, assignor to The Blackburn Patent Steering Wheel Company, St. Louis, Mo. Steering and controlling mechanism for automobiles. No. 1,435,692; Nov. 14.
- Blackburn Patent Steering Wheel Company, The. (See Blackburn, Jasper, assignor.)
- Blackburn, Thomas B., et al. (See Sykes, George, assignor.)
- Blackburn, William N., Drexel Hill, Pa. Flue-wall facing. No. 1,436,750; Nov. 28.
- Blackburn, Wilmuth E., Summit, N. J. Game apparatus. No. 1,432,830; Oct. 24.
- Blackford, Atwell J., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Oil heating stove. No. 1,404,006; Jan. 17.
- Blackford, Atwell J., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Wickless oil burner. No. 1,423,302; July 18.
- Blackhurst, John C. (See Anderton, R. and Blackhurst.)
- Blackmar, Fred W., assignor of one-half to L. M. Blackmar, Providence, R. I. Wrench. No. 1,424,069; July 25.
- Blackmar, Lewis M. (See Blackmar, Fred W., assignor.)
- Blackmore, Charles C., Dayton, Ohio. Shock absorber. No. 1,435,799; Nov. 14.
- Blackmore, Charles C., Dayton, Ohio. Curtain-supporting device for automobile doors and the like. No. 1,437,389; Dec. 5.
- Blackmore, Charles C., Dayton, Ohio. Lock for automobiles and the like. No. 1,437,390; Dec. 5.
- Blackmore, Lloyd, assignor to General Motors Corporation, Detroit, Mich. Hydrocarbon motor. No. 1,410,361; Mar. 21.
- Blackstone, Frank L., Lindsay, Calif. Fountain pen. No. 1,413,893; Apr. 25.
- Blackstone Manufacturing Company. (See More, Glenn, assignor.)
- Blackstone, Selwyn R., Pittsfield, N. H. Nonsiphon trap. No. 1,411,402; Apr. 4.
- Blackwell, Demarkus S., San Springs, Okla. Automobile sand and mud dog for attaching to vehicle wheels. No. 1,422,078; July 11.
- Blackwell, Otto B., Garden City, N. Y., assignor to American Telephone and Telegraph Company. Frequency control system. No. 1,403,835; Jan. 17.
- Blades, Alvin C., assignor of one-third to C. E. Collins and one-third to C. C. Ward, Crisfield, Md. Signal lamp. No. 1,418,615; June 6.
- Blaha, Ludwig. (See Neu, H., and Blaha.)
- Blaicher, Ernest C., Irvington, N. J., assignor to Interstate Smelting and Refining Co., Inc., Newark, N. J. Finger ring. No. 1,422,819; July 18.
- Blakie, John R. (See Phillips, R. W. L., and Blakie.)
- Blain, Estella H., administratrix. (See Blain, Joseph E.)
- Blain, Floyd M., Central Point, Oreg. Drawbar hitch for tractors. No. 1,414,770; May 2.
- Blain, Floyd M., Central Point, Oreg. Tractor hitch. No. 1,435,373; Nov. 14.
- Blain, Joseph E., deceased, Toledo, Ohio; E. H. Blain, administratrix, assignor, by mesne assignments, to E. H. Blain, Thompson, Pa. Container. No. 1,431,561; Oct. 10.
- Blaine, Joseph R., assignor to Miehle Printing Press & Manufacturing Co., Chicago, Ill. Cylinder-trip mechanism. No. 1,408,067; Feb. 28.
- Blair, Benjamin L., Indianapolis, Ind. Ball projector. No. 1,419,445; June 13.
- Blair, Ernest F., Warren, Ohio. Condiment holder. No. 1,417,444; May 23.
- Blair, F. R., & Co. (See Ungar, Gustave A., assignor.)
- Blair, Henry, San Ardo, assignor of one-half to H. M. Madson, San Lucas, Calif. Railway spike. No. 1,426,453; Aug. 22.
- Blair, James B., deceased, Decatur, Ill.; O. M. Blair, administratrix. Automobile direction indicator. No. 1,424,070; July 25.
- Blair, Lewis V., assignor to The Mantle Lamp Co. of America, Chicago, Ill. Heat-insulated receptacle. No. 1,435,199; Nov. 14.
- Blair, Ora M., administratrix. (See Blair, James B.)
- Blair, Robert S., et al. (See Churchward, James, assignor.)
- Blair, Robert S., Sound Beach, Conn. Storage-battery construction. No. 1,416,327; May 16.
- Blair, Robert S., South Orange, N. J. Cigar. No. 1,437,956; Dec. 5.
- Blair, Robert S., South Orange, N. J. Holding device for doors and the like. No. 1,439,353; Dec. 19.
- Blair, Rolandis A., Fort Wayne, Ind., assignor to The P & M Company, Chicago, Ill. Rail anchor. No. 1,434,524; Nov. 7.
- Blair, Rolandis A., Fort Wayne, Ind., assignor to The P & M Company, Chicago, Ill. Rail anchor. No. 1,434,525; Nov. 7.
- Blair, Thomas, assignor of one-half to H. N. Street, Lonoake, Ark. Wrench. No. 1,436,472; Nov. 21.
- Blair, William L., Denver, Colo. Reading desk. No. 1,439,998; Dec. 26.

- Blair, William P., et al. (See Cox, Thomas E., assignor.)
- Blake, C. C., Incorporated. (See Blake, Charles C., assignor.)
- Blake, C. C., Incorporated. (See Fernald, Mark E., assignor.)
- Blake, C. C., Incorporated. (See Foster, Edward E., assignor.)
- Blake, C. Chandler. (See Jansson, Bennett G., assignor.)
- Blake, Charles C., Brookline, Mass. Weiting. No. 1,408,797; Mar. 7.
- Blake, Charles C., Brookline, Mass. Machine for making insulated nails. No. 1,411,951; Apr. 4.
- Blake, Charles C., Brookline, Mass. Sole-pressing machine. No. 1,427,940; Sept. 5.
- Blake, Charles C., Brookline, Mass. Insole-rounding machine. No. 1,430,210; Sept. 26.
- Blake, Charles C., Brookline, assignor to C. C. Blake, Incorporated, Boston, Mass. Welt guide. No. 1,403,227; Jan. 10.
- Blake, Charles C., Brookline, and M. E. Fernald, Saugus, Mass. Machine for updrawing uppers. No. 1,409,521; Mar. 14.
- Blake, Eli J. (See Bouché, W. F., and Blake.)
- Blake, Eli J., Buffalo, N. Y., assignor to Hall Switch & Signal Co. Train-control system. No. 1,404,428; Jan. 24.
- Blake, Eli J., Buffalo, N. Y., assignor to Gould Coupler Company, Governor. No. 1,421,660; July 4.
- Blake, Eli J., Buffalo, N. Y., assignor to Hall Switch & Signal Co. Train-control system. No. 1,421,762; July 4.
- Blake, Frank W., Brooklyn, assignor to Underwood Computing Machine Company, New York, N. Y. Computing machine. No. 1,438,014; Dec. 5.
- Blake, Fred A., Springfield, Mass. Centrifugal extractor. No. 1,402,206; Jan. 3.
- Blake, Frederick A., Gardner, Mass. Extractor attachment. No. 1,402,207; Jan. 3.
- Blake, Frederick H., Toronto, Ontario, Canada. Exercising device. No. 1,432,013; Oct. 17.
- Blake, John H., Jr. (See Hewitt, E. R., and Blake.)
- Blake, John H., Knoxville, Tenn. Car wheel. No. 1,413,385; Apr. 18.
- Blake, Jud M., Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Low-percentage manganese steel. No. 1,439,939; Dec. 26.
- Blake, William T., Reno, Ohio. Drive mechanism for mowing machines. No. 1,410,362; Mar. 21.
- Blakeley, Florence R. (See Conger, Charles W., assignor.) (Reissue.)
- Blakely, William W., Detroit, Mich. Leaf-spring compressor. No. 1,425,832; Aug. 15.
- Blakely, William W., Detroit, Mich. Wheel block. No. 1,429,921; Sept. 26.
- Blakeman, William N., Jr., Mount Vernon, N. Y. Paint vehicle. No. 1,423,389; July 18.
- Blakeman, William N., Jr., Mount Vernon, N. Y. Paint composition. No. 1,423,390; July 18.
- Blakeman, William N., Jr., Mount Vernon, N. Y. Pigment composition for paints. No. 1,423,391; July 18.
- Blakeman, William N., Jr., Mount Vernon, N. Y. Oil. No. 1,423,392; July 18.
- Blakeman, William N., Jr., Mount Vernon, N. Y. Paint composition. No. 1,430,881; Oct. 3.
- Blakeman, William N., Jr., Mount Vernon, N. Y. Mineral oil. No. 1,430,882; Oct. 3.
- Blakemore, Arthur H., St. Louis, Mo. Folding crate. No. 1,423,596; July 25.
- Blakemore, Henry G. G. (See Webb, J. R., and Blakemore.)
- Blakeney, William A., Denver, Colo. Transparent windshield wing for automobiles. No. 1,408,436; Mar. 7.
- Blakeslee, Everett L., Seattle, Wash., assignor to American Bottle Cap Company. Bottle cap. No. 1,430,719; Oct. 3.
- Blakeslee, G. S., & Co. (See Anstiss, George P., assignor.)
- Blakeslee, George S., Chicago, Ill. Washing machine. No. 1,404,570; Jan. 24.
- Blakeslee, George S., Chicago, Ill. Dish-washing machine. No. 1,404,706; Jan. 24.
- Blakeslee, George S., Chicago, Ill. Washing machine. No. 1,408,968; Feb. 21.
- Blakeslee, George S., Chicago, Ill. Machine for washing boxes, cans, and other articles. No. 1,423,300; July 18.
- Blakeslee, George S., Chicago, Ill. Washing machine. No. 1,426,142; Aug. 15.
- Blakeslee, George S., Chicago, Ill. Washing machine. No. 1,431,870; Oct. 10.
- Blakesley, George R., Edgerton, Wis. Electric iron. No. 1,438,742; Dec. 12.
- Blalock, James D., et al. (See Colgan, John P., assignor.)
- Blalock, Jesse N., et al., trustees. (See Stevens, H. R., Rockwell, and Howe, assignors.)
- Blanc-Garin, Henri C., Levallois-Perret, France. Change-speed gear. No. 1,405,391; Feb. 7.
- Blanc, Gian A., and F. Jourdan, Rome, Italy. Treatment of leucitic rocks for the purpose of rendering potassium compounds available. No. 1,418,356; June 6.
- Blanchard, Adna F., assignor, by mesne assignments, to Fairfield Manufacturing Company, Cranston, R. I. Combination pocketknife and nail clip. No. 1,242,551; Aug. 1.
- Blanchard, Frederick C., assignor to Detroit Lubricator Company, Detroit, Mich. Valve. No. 1,427,256; Aug. 29.
- Blanchard, George H., Northport, N. Y. Toilet accessory. No. 1,431,210; Oct. 10.
- Blanchard, George N., San Francisco, Calif. Producing chlorine gas. No. 1,430,785; Oct. 3.
- Blanchard, George N., assignor to Colmar Burner Co., Inc., San Francisco, Calif. Automatic fuel control. (Reissue.) No. 15,354; May 16.
- Blanchard, George N., assignor to E. B. Kimball, trustee, San Francisco, Calif. Hydrocarbon generator. No. 1,416,328; May 16.
- Blanchard, George N., Oakland, Calif., assignor to E. B. Kimball, trustee, San Francisco, Calif. Automatically-controlled pressure feed for liquid hydrocarbon burners. No. 1,439,288; Dec. 19.
- Blanchard, George O., Napoleonville, La. Head cover for internal-combustion engines. No. 1,429,014; Sept. 12.
- Blanchard, Harry E., Hartford, Conn., assignor to Lapointe Machine Tool Company, Hudson, Mass. Broaching machine. (Reissue.) No. 15,464; Oct. 10.
- Blanchard, Leroy E., St. Lawrence, S. D. Lever clutch release. No. 1,404,174; Jan. 17.
- Blanchard, Thomas R., and E. B. Kenefic, Minneapolis, Minn. Retort furnace. No. 1,420,958; June 27.
- Blanchet, Paul G., South Orange, N. J. Cardcase. No. 1,440,331; Dec. 26.
- Bland, John, San Francisco, Calif. Screen. No. 1,411,834; Apr. 4.
- Bland, Joseph F., Winston-Salem, N. C. Automatic stop for disk records for talking machines. No. 1,410,158; Mar. 21.
- Bland, Joseph F., Winston-Salem, N. C. Radiator cap. No. 1,435,800; Nov. 14.
- Blando, Frank, New York, N. Y. Ball projector. No. 1,419,538; June 13.
- Blando, Frank, New York, N. Y. Ball projector. No. 1,419,539; June 13.
- Blaney, William T., Peterborough, Ontario, Canada. Dust collector. No. 1,427,674; Aug. 29.
- Blangey, Louis. (See Lüttringhaus, A., and Blangey.)
- Blangey, Louis. (See Römer, A., and Blangey.)
- Blank, George A., New York, N. Y. Scrubbing device. No. 1,408,253; Feb. 28.
- Blank, John A. (See Fitzgerald, M. J., and Blank.)
- Blankenhorn, George S., assignor to Coen Company, San Francisco, Calif. Automatic control for mechanical oil-burning systems. No. 1,430,279; Sept. 26.
- Blankenhorn, George W., assignor to California Packing Corporation, San Francisco, Calif. Rolling cutter. No. 1,407,316; Feb. 21.
- Blankenhorn, George W., assignor to California Packing Corporation, San Francisco, Calif. Paper-disk separating and feeding device. No. 1,407,318; Feb. 21.
- Blankenhorn, George W., and T. Sastberg, assignors to California Packing Corporation, San Francisco, Calif. Paper-lining machine. No. 1,407,317; Feb. 21.
- Blanton, Eura A., Miami, Fla. Train marker. No. 1,434,191; Oct. 31.
- Blanton, Fred D., assignor of one-sixth to R. E. Magalis, one-sixth to P. O. Eckles, and one-third to F. P. Leverett, Dallas, Tex. Cross member and spring protector. No. 1,410,242; Mar. 21.
- Blanton, John B., Chattanooga, Tenn., assignor of one-half to H. A. Wingers, St. Louis, Mo. Shutter for motion-picture-projecting machines. No. 1,422,410; July 11.
- Blanton, Robert W., Ironton, Ohio. Metallic keg. No. 1,429,220; Sept. 19.
- Blasdel, Elmer C., Glenrock, Wyo. Cracking apparatus. No. 1,437,712; Dec. 5.
- Blaser, Fritz, Aarau, Switzerland. Alternating-current rectifier. No. 1,437,336; Nov. 28.
- Blashill, Arthur E., Westmount, Quebec, Canada, assignor to The Blashill Wire Machinery Company, Limited, Montreal, Canada. Wire-fabric machine. No. 1,437,488; Dec. 5.
- Blashill, Arthur E., Westmount, Quebec, Canada. Wire-fabric machine. No. 1,437,489; Dec. 5.
- Blashill Wire Machinery Company, The. (See Blashill, Arthur E., assignor.)
- Blaski, Benjamin P., assignor to Blaski Manufacturing Co., Chicago, Ill. Skylight. No. 1,418,061; May 30.
- Blaski Manufacturing Co. (See Blaski, Benjamin P., assignor.)
- Blass, Ferdinand M. E., Mulheim-on-the-Rhine, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Gas producer. No. 1,414,109; Apr. 25.
- Blatchford Calf Meal Company. (See Barwell, J. W., Ward, Nelson, Hingher, Booth, and Blows, assignors.)
- Blatchford Calf Meal Company. (See Barwell, John W., assignor.)
- Blatchford, Charles A., London, England. Artificial limb. No. 1,402,709; Jan. 3.
- Blatchley, William H., Pittsburgh, Pa. Refractories projector. No. 1,435,200; Nov. 14.
- Blatchley, William H., Pittsburgh, Pa. Refractories projector. No. 1,435,201; Nov. 14.
- Bláthy, Otto T., Budapest, Hungary. Adjusting integrating electricity meters. No. 1,424,752; Aug. 8.
- Bláthy, Otto T., Budapest, Hungary. Adjusting electric meters. No. 1,427,776; Sept. 5.

Alphabetical list of patentees—Continued.

- Blattner, Elmer E., St. Louis, Mo. Feeding device for punch presses. No. 1,434,192; Oct. 31.
- Blane, George H. (See Kimmet, H., and Blane.)
- Blauert, Berthold P., Chicago, Ill. Valve. No. 1,410,881; Mar. 28.
- Blauert, Berthold W., Marysville, Calif. Tablette for chairs. No. 1,414,452; May 2.
- Blauborn, Emanuel, assignor to Firm of Alex. Friedmann, Vienna, Austria. Injector. No. 1,406,145; Feb. 7.
- Blauvelt, William G., New York, N. Y., assignor to American Telephone and Telegraph Company. Testing system. No. 1,406,918; Feb. 14.
- Blauvelt, William G., New York, N. Y., assignor to American Telephone and Telegraph Company. Numbering system for automatic telephone exchanges. No. 1,439,723; Dec. 26.
- Blaw-Knox Company. (See Brynoldt, Christian, assignor.)
- Blaw-Knox Company. (See Garlinghouse, Leslie H., assignor.)
- Blaw-Knox Company. (See Robinson, George L., assignor.)
- Blaw-Knox Company. (See Shipman, William P., assignor.)
- Blaw-Knox Company. (See Venable, William M., assignor.)
- Blazer, James H. (See Black, J. Q., and Blazer.)
- Blazer, James W. (See Black, J. Q., and Blazer.)
- Bleadow, J. J. (See Meyenberg, William H., assignor.)
- Blee, Charles O., Fort Wayne, Ind. Spark plug. No. 1,410,646; Mar. 28.
- Blee, John W. H., and A. P. Powell, Harrison, Idaho. Cable coupling. No. 1,407,370; Feb. 21.
- Blecker, George W., et al., trustees. (See Martin, Laurence C., assignor.)
- Blecker, Warren F., assignor to The Tungsten Products Company, Boulder, Colo. Reducing tungstic oxide to tungsten metal. No. 1,427,187; Aug. 29.
- Blecker, Warren F., assignor to The Tungsten Products Company, Boulder, Colo. Extraction of vanadium, uranium, and radium from certain ores. No. 1,438,357; Dec. 12.
- Blegan, Marcus. (See Steen, J. P., and Oram, assignors.)
- Blenio, Guido, New York, N. Y. Proofed fabric and making same. No. 1,436,231; Nov. 21.
- Blenio, Guido, assignor, by mesne assignments, to Blenio Paint & Products Corporation, New York, N. Y. Aeroplane element and making same and product of said process. No. 1,427,941; Sept. 5.
- Blenio Paint & Products Corporation. (See Blenio, Guido, assignor.)
- Bleo, John B., Chicago, Ill. Hitch and drawbar attachment. No. 1,412,854; Apr. 18.
- Blessing, Charles B., Cincinnati, Ohio, assignor to Blessing Electric and Manufacturing Company, Chicago, Ill. Fruit-juice extractor. No. 1,412,996; Apr. 18.
- Blessing Electric and Manufacturing Company. (See Blessing, Charles B., assignor.)
- Blessing, John G., assignor to Automatic Electric Company, Chicago, Ill. Call indicator for automatic telephone systems. No. 1,414,686; May 2.
- Blettner, George H., Chicago, Ill. Making piston rings and of making a template therefor. No. 1,403,479; Jan. 17.
- Blevney, John C., Lawrence Park, Bronxville, N. Y. Ratchet tool. No. 1,436,640; Nov. 28.
- Blevney, John C., Lawrence Park, Bronxville, N. Y. Ratchet tool. No. 1,436,641; Nov. 28.
- Bley, John M., sr., Philadelphia, Pa. Attachment for fishing line. No. 1,438,476; Dec. 12.
- Bleyle, August W., Berkeley, and J. J. Davis, Oakland, assignors to H. W. Dawson, San Francisco, Calif. Elevator safety device. No. 1,411,770; Apr. 4.
- Bleiberger, Charles, New York, N. Y. Sound amplifying and reproducing apparatus. No. 1,436,080; Nov. 21.
- Bleiberger, Charles, assignor to A. A. Thomas, New York, N. Y. Apparatus for recording, reproducing, and amplifying sound. No. 1,425,505; Aug. 15.
- Blesath, Ernest C. F. W., Kerry, Oreg. Bottle closure. No. 1,431,358; Oct. 10.
- Billar, Edward A., McGill, Nev. Fluid clutch. No. 1,404,571; Jan. 24.
- Blinkide, Jens, Detroit, Mich. Valve grinder. No. 1,408,264; Feb. 28.
- Blinn, Clarence E. and G. W. Christie, Vancouver, Wash. Automobile signal. No. 1,428,136; Sept. 5.
- Blinn, Edmond B. (See Barkschat, Henry, assignor.)
- Bliss, E. W., Company. (See Beyer, Otto S., assignor.)
- Bliss, E. W., Company. (See Klocke, W., and Dobson, assignors.)
- Bliss, E. W., Company. (See Klocke, William, assignor.)
- Bliss, E. W., Company. (See Kruse, Peter, assignor.)
- Bliss, Elmer F., Schenectady, N. Y., assignor to General Electric Company. Signaling in fluid systems. No. 1,413,313; Apr. 18.
- Bliss, Elmer J., Boston, Mass. Device for measuring feet. No. 1,426,143; Aug. 15.
- Bliss, Herbert R., Niagara Falls, N. Y. Shipping case. No. 1,414,067; Apr. 25.
- Bliss, Herbert R., Niagara Falls, N. Y. Sealing fiber shipping cases. No. 1,430,148; Sept. 26.
- Bliss, Herbert R., Niagara Falls, N. Y. Shipping case. No. 1,430,149; Sept. 26.
- Bliss, Herbert R., Niagara Falls, N. Y. Wire-stitching machine. No. 1,430,150; Sept. 26.
- Bliss, Herbert R., Niagara Falls, N. Y. Constructing fiber shipping cases. No. 1,430,151; Sept. 26.
- Bliss, Ida J., et al. (See Camelo, Nicholas, assignor.)
- Bliss, Ira B., Stamford, Conn. Chassis and spring protector. No. 1,405,663; Feb. 7.
- Bliss, John, assignor to C. C. Wakefield & Company, Limited, London, England. Lubricating system. No. 1,411,202; Mar. 28.
- Bliss, Raymond D., et al. (See Finney, James J., assignor.)
- Bliss, Sherwood C., Bayonne, N. J. Attachment for lathes. No. 1,401,954; Jan. 3.
- Bliss, William L., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical distribution. No. 1,434,362; Nov. 7.
- Bliss, William L., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical distribution. No. 1,434,363; Nov. 7.
- Bliven, Chester A., and C. F. Moyer, Pueblo, Colo. Dirigible headlight for automobiles. No. 1,408,068; Feb. 28.
- Bliznik, John W., Detroit, Mich. Foot-operated switch-throwing mechanism. No. 1,426,542; Aug. 22.
- Bloch Company, The. (See Bloch, Samuel M., assignor.)
- Bloch, Jacob, Cincinnati, Ohio. Mechanic's apron. No. 1,413,669; Apr. 25.
- Bloch, Jesse A., Wheeling, W. Va. Display box. No. 1,416,598; May 16.
- Bloch, Leon, Brooklyn, N. Y. Valve. No. 1,411,904; Apr. 4.
- Bloch, Leon, New York, N. Y. Bath fitting. No. 1,416,599; May 16.
- Bloch, Marie, New York, N. Y. Food product. (Reissue.) No. 15,474; Oct. 24.
- Bloch, Samuel M., assignor to The Bloch Company, Cleveland, Ohio. Conductor's vest. No. 1,407,459; Feb. 21.
- Bloch, Alexander, New York, N. Y. Typewriting machine. No. 1,403,836; Jan. 17.
- Bloch, Alexander, New York, N. Y. Lock. No. 1,406,437; Feb. 14.
- Bloch, Alexander, New York, N. Y. Typewriting machine. No. 1,417,489; May 30.
- Bloch, Alexander, New York, N. Y. Lock. No. 1,422,820; July 18.
- Bloch, Henry, Galveston, Tex. Writing pen. No. 1,406,438; Feb. 14.
- Bloch, Louis, Mamaroneck, N. Y. Compressing gases. No. 1,425,938; Aug. 15.
- Blocker, Andrew G., St. Louis, Mo. Attachment for motor-driven devices. No. 1,417,228; May 23.
- Blocker, Andrew G., St. Louis, Mo. Disk-record container for phonographs. No. 1,419,487; June 13.
- Blodgett, George R., Brooklyn, R. T. Hurley, New York, and M. E. Cheney, Brooklyn, N. Y. Spark plug. (Reissue.) No. 15,303; Mar. 14.
- Blodgett, George R., Brooklyn, R. T. Hurley, New York, and M. E. Cheney, Brooklyn, N. Y. Spark plug. (Reissue.) No. 15,304; Mar. 14.
- Blodgett, Samuel, San Joaquin, Calif. Four-wheel-drive tractor. No. 1,416,329; May 16.
- Bloedow, Henry, and J. Schaffner, assignors to Standard Sheet Metal Works, Milwaukee, Wis. Sheet-metal building. No. 1,429,400; Sept. 19.
- Blomeley, Adam Y., and R. E. H., New York, N. Y. Purification and filtration of liquids. No. 1,404,185; Jan. 24.
- Blomeley, Ralph E. H. (See Blomeley, Adam Y. and R. E. H.)
- Blomfield, Alfred L. (See Ramsey, E. R., and Blomfield.)
- Blomstrand, Axel E. (See Strom, E. N., and Blomstrand.)
- Blood, Bryant H., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Gauge block. No. 1,407,833; Feb. 28.
- Blood, Burr B., assignor to Jewel Phonoparts Company, Chicago, Ill. Modifier for phonograph sound boxes. No. 1,408,437; Mar. 7.
- Blood, Burr B., assignor, by mesne assignments, to Jewel Phonoparts Company, Chicago, Ill. Caster. No. 1,409,150; Mar. 14.
- Blood, Burr B., assignor, by mesne assignments, to Jewel Phonoparts Company, Chicago, Ill. Phonograph reproducer. No. 1,419,913; June 20.
- Blood, Burr B., assignor, by mesne assignments, to Jewel Phonoparts Company, Chicago, Ill. Stop device for phonographs. No. 1,419,914; June 20.
- Blood, Burr B., assignor, by mesne assignments, to Jewel Phonoparts Company, Chicago, Ill. Reproducer for phonographs. No. 1,437,391; Dec. 5.
- Blood, Charles, W. H. Winthrop, and C. G. Osteman, assignors to S. A. Woods Machine Company, Boston, Mass. Side head construction for matchers and the like. No. 1,414,618; May 2.
- Blood, Harold L., Plainfield, N. J. Jar opener. No. 1,411,885; Apr. 4.
- Blood, Harold L., Plainfield, N. J., assignor to Niles-Bement-Bond Company, New York, N. Y. Planer and system of motor control therefor. No. 1,432,831; Oct. 24.
- Blood, Louis H. (See Oesterlein, C. D., and Blood.)
- Blood, Louis H., assignor to The Oesterlein Machine Company, Cincinnati, Ohio. Mechanical movement. No. 1,403,480; Jan. 17.
- Blood, Thomas G., Birmingham, England. Meat safe and the like. No. 1,440,271; Dec. 26.

- Bloom, Adolph, Lansing, Mich. Wire stretcher. No. 1,412,447; Apr. 11.
- Bloom, Frederick C., Norwood, Ohio. Display stand. No. 1,416,935; May 23.
- Bloom, Israel, Denver, Colo. Adjustable curtain rod. No. 1,424,444; Aug. 1.
- Bloomdale, Seth N., Worcester, Mass. Spring hub. No. 1,430,002; Sept. 26.
- Bloomquist, Helmer A., Manistee, Mich. Carrier for bottles. No. 1,407,630; Feb. 21.
- Bloss, Richard R., assignor to The Parkersburg Rig & Reel Company, Parkersburg, W. Va. Deck for oil tanks. No. 1,404,924; Jan. 31.
- Bloss, Richard R., assignor to The Parkersburg Rig & Reel Company, Parkersburg, W. Va. Pitman. No. 1,434,803; Nov. 7.
- Blossom, Alden, Newton Square, Pa. Shock absorber. No. 1,416,782; May 23.
- Blount, Harry. (See Malcolmson, W. J., and Blount.)
- Blount, Harry, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Mechanism for lapping diamond dies. No. 1,428,209; Sept. 5.
- Blount, Harry, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Wire-drawing die. No. 1,438,940; Dec. 19.
- Blount, John E., Louisville, Ky. Electric humidor. No. 1,424,979; Aug. 8.
- Blowers, Alonzo S., Portland, Ind. Safety overall pocket. No. 1,415,299; May 9.
- Blowers, Alonzo S., Portland, Ind. Slidable work support. No. 1,427,777; Sept. 5.
- Blows, Wilbur L. (See Barwell, J. W., Ward, Nelson, Hingher, Booth, and Blows.)
- Blowski, John S., Oakland, Calif. Concentration of nitrogen oxides. No. 1,434,674; Nov. 7.
- Blublaze Motor Specialties Corp. (See Holm, John A., assignor.)
- Bludworth, William D., Sacramento, Calif. Motometer lock. No. 1,404,263; Jan. 24.
- Blue, John, Laurinburg, N. C. Planter. No. 1,412,913; Apr. 18.
- Blumel, Ignatz P., Chicago, Ill. Safety razor. No. 1,412,835; Apr. 18.
- Bluff, John T., Butte, Mont. Attachment for automobile radiators. No. 1,410,363; Mar. 21.
- Bluhm, Charles A., Michigan City, Ind. Train-pipe coupling. No. 1,427,716; Aug. 29.
- Blum, Edward C., assignor to Abraham & Straus Inc., Brooklyn, N. Y. Barber chair. No. 1,434,804; Nov. 7.
- Blum, Elisa von S. S., Dallas, Tex. Hosiery spat. No. 1,435,047; Nov. 7.
- Blum, Frank J. (See Trimborn, P. W., and Blum.)
- Blum, Harry, Johnstown, Pa. Safety razor. No. 1,439,059; Dec. 19.
- Blum, Hosmer, San Francisco, assignor of one-half to B. C. Joy, Los Angeles, Calif. Meter. No. 1,423,597; July 25.
- Blum, John, West Hoboken, N. J. Thread splitting and cutting machine for embroidered fabrics. No. 1,408,856; Mar. 7.
- Blum, Peter, Halle-on-the-Saale, Germany. Machine for portioning off doughy or granular material. No. 1,431,718; Oct. 10.
- Blum, William A., assignor to Cyrus B. Newcomb, Grand Rapids, Mich. Mechanical feeding apparatus. No. 1,403,667; Jan. 17.
- Blumberg, Paul. (See Meili, O., and Blumberg.)
- Blume, Charles A., Galesburg, Ill. Power device for water wheels. No. 1,430,618; Oct. 3.
- Blümel, Eduard. (See von Czerweny, V., and Blümel.)
- Blumenthal, Charles. (See Crosby, Gorham, assignor.)
- Blumenthal, Harry and H., Hartford, Conn. Coating articles. No. 1,403,068; Jan. 10.
- Blumenthal, Herman. (See Blumenthal, Harry and H.)
- Blumenthal, Maurice, Brooklyn, N. Y. Method of and apparatus for making foundations. No. 1,404,925; Jan. 31.
- Blumfeldt, Alexander, Neue Welt-Munchenstein, near Basel, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Resin and making same. No. 1,435,801; Nov. 14.
- Blümner, Erwin, Berlin-Wilmersdorf, Germany. Pocket implement. No. 1,438,515; Dec. 12.
- Blunck, Robert A., Grand Mound, Iowa. Table-spread holder. No. 1,403,733; Jan. 17.
- Blunt, James G., Schenectady, N. Y. Handrail column. No. 1,428,746; Sept. 12.
- Blunt, James G., Schenectady, and Harry Swoyer, Dunkirk, N. Y. Water-gauge column. No. 1,415,862; May 16.
- Blunt, Solomon M., Plateau, Ala. Shoe-blackening machine. No. 1,430,786; Oct. 3.
- Bly, Henry, Ruthton, Minn. Clothes-drying apparatus. No. 1,411,265; Apr. 4.
- Blyburg, Ogden F., St. Joseph, Mich. Shock absorber. No. 1,423,904; July 25.
- Blydenburgh, Daniel, South Attleboro, Mass. Threading board for lace-machine carriages. No. 1,410,051; Mar. 21.
- Blynn, Edgar A., Gloucester, Mass. Grass catcher for lawn mowers. No. 1,439,724; Dec. 26.
- Blynt, Herbert S., Yale, Okla. Pneumatic vehicle tire. No. 1,416,252; May 16.
- Blynt, Herbert S., Yale, Okla. Pneumatic vehicle tire. No. 1,438,015; Dec. 5.
- Blythe, James. (See Nettle, W. E., Selby, Blythe, and Holman.)
- Blything, John F. (See Glaser, Oscar L., assignor.)
- Boa, Robert G. C., Chicago, Ill., assignor to Remington Accounting Machine Corporation, New York, N. Y. Calculating machine. No. 1,418,062; May 30.
- Boadwee, Russell K., Brooklyn, assignor to Julius Kayser & Co., New York, N. Y. Warp-knitting machine. No. 1,439,999; Dec. 26.
- Boak, Thomas I. S. (See Bellamore, D. H., and Boak.)
- Boal, Hugh M., Titusville, Pa. Canning tongs. No. 1,435,202; Nov. 14.
- Board, William S., Plymouth, W. Va. Guard for grates. No. 1,430,488; Sept. 26.
- Boardman, Albert, Hamilton, Ontario, Canada, assignor to Western Electric Company, Incorporated, New York, N. Y. Machine for vacuum-tube manufacture. No. 1,438,941; Dec. 19.
- Boardman, Charles S., Buffalo, assignor to Lackawanna Steel Company, Lackawanna, N. Y. Composite sheet piling. No. 1,408,069; Feb. 28.
- Boardman, Charles S., Buffalo, assignor to Lackawanna Steel Company, Lackawanna, N. Y. Interlocking sheet piling. No. 1,411,905; Apr. 4.
- Boardman, Charles S., and C. C. Conkling, deceased, Buffalo; L. C. Conkling, executrix, assignors to Lackawanna Steel Company, Lackawanna, N. Y. Sheet-piling wall construction. No. 1,422,821; July 18.
- Boast, William F. (See Eshelman, O. D., and Boast.)
- Boatman, Andrew N., et al. (See Brace, James P., assignor.)
- Bob White Chemical Corporation. (See Morgan, Neil E., assignor.)
- Bobbit, Evert E., Chicago, Ill. Printing-press jogger. No. 1,440,206; Dec. 26.
- Bobbit, James F., Greenwood, Miss. Child's vehicle. No. 1,410,547; Mar. 28.
- Bobek, John, Trevorton, Pa. Pneumatic vehicle tire. No. 1,416,253; May 16.
- Bobek, William, Astoria, N. Y. Invisible hinge. No. 1,410,052; Mar. 21.
- Bober, Charles. (See Walicki, L., and Bober.)
- Boberg, Knute E. (See Stromberg, E. A., and Boberg.)
- Bobker, Henry. (See Ralph, Thomas L., assignor.)
- Bobo, George D. (See Bryan, William H., Jr., assignor.)
- Bobo, George D. (See Rawling, Aldean W., assignor.)
- Bobrick, Arthur L. (See Bobrick, Gabriel A. and A. L.) (Reissue.)
- Bobrick, Gabriel A., Los Angeles, Calif., and A. L. Bobrick, New York, N. Y. Liquid dispenser. (Reissue.) No. 15,450; Sept. 12.
- Bobrovsky, Serge, London, assignor of one-half to Crossley Motors Limited, Manchester, Lancaster, England. Variable-speed device. No. 1,413,095; Apr. 18.
- Bobst, Alfred E., Schenectady, N. Y., assignor to General Electric Company. Suction cleaner. No. 1,438,890; Dec. 12.
- Boby, William V. (See Vogt, H. C., Boby, and Lancaster.)
- Bocchio, Charles S., Oakland, Calif. Rotary-drill extension. No. 1,414,110; Apr. 25.
- Boche, Otto W., Bridgeport, Conn. Roller skate and wheel therefor. No. 1,428,210; Sept. 5.
- Bochet, Adrien C. A. M., Paris, France. Device for aiming at aerial objects. No. 1,432,659; Oct. 17.
- Bocbonok, Stefan, Pittsburgh, Pa. Nail-holding device. No. 1,426,249; Aug. 15.
- Bock Bearing Company, The. (See Bingham, Jeremiah, assignor.)
- Bock Bearing Company, The. (See Close, Lyman W., assignor.)
- Bock Bearing Company, The. (See Flaherty, John F., assignor.)
- Bock, Bertha M. (See Bock, William E., assignor.)
- Bock, Charles. (See Fredrich, J. H., and Bock.)
- Bock, Charles, assignor to A. Hoffman, Chicago, Ill. Spring hinge. No. 1,425,939; Aug. 15.
- Bock, William E., assignor to B. M. Bock, Eagle Point Colony, Ohio. Power-transmission mechanism. No. 1,416,163; May 16.
- Bockisch, Heinrich, Poughkeepsie, N. Y., assignor, by mesne assignments, to Welte-Mignon Corporation, New York, N. Y. Automatic musical instrument. No. 1,431,359; Oct. 10.
- Bockisch, Heinrich, Poughkeepsie, assignor, by mesne assignments, to Welte-Mignon Corporation, New York, N. Y. Automatic musical instrument. No. 1,431,360; Oct. 10.
- Bockisch, Heinrich, Poughkeepsie, assignor, by mesne assignments, to Welte-Mignon Corporation, New York, N. Y. Automatic musical instrument. No. 1,431,361; Oct. 10.
- Bockius, Walter A., Wilmette, assignor to The Beckley-Ralston Company, Chicago, Ill. Bumper. No. 1,417,712; May 30.
- Bockmühl, Max, and K. Windisch, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Methyl-sulphites of secondary aromatic aliphatic amines and making same. No. 1,426,348; Aug. 22.

Alphabetical list of patentees—Continued.

- Bockmühl, Max, Höchst-on-the-Main, and A. Schwarz, Frankfurt-on-the-Main, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Aliphatic dialkylamino alkyl compounds and making same. No. 1,429,922; Sept. 26.
- Bockover, Walter L., assignor of one-third to J. W. McNamara and one-third to H. J. O'Neill, Tipton, Ind. Pipe wrench. No. 1,407,691; Feb. 28.
- Bockshe, Ely, assignor to Modern Grinder Manufacturing Co., Milwaukee, Wis. Grinder-wheel mounting. No. 1,404,339; Jan. 24.
- Boddie, Clarence A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Demand meter. No. 1,408,255; Feb. 28.
- Boddie, Clarence A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulator system and apparatus. No. 1,435,203; Nov. 14.
- Boddie, Clarence A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Voltage-regulator system. No. 1,437,087; Nov. 28.
- Boddy, Bessie M., Marceline, Mo. Combined lid and wash-drain for washboilers. No. 1,437,713; Dec. 5.
- Bode, Charles O., New York, N. Y. Antiskid device for vehicle tires. No. 1,429,837; Sept. 19.
- Boden, George, Waterbury, assignor to Oakville Company, Oakville, Conn. Machine for making safety pins. No. 1,405,392; Feb. 7.
- Boden, Patrick B. (See McFarland, L. F. and Boden.)
- Bodge, William. (See Tulloch, D. M. and Bodge.)
- Bodie, Albert B., assignor of twenty-one per cent to H. S. Shealey, twenty-four per cent to A. J. Mobley, sixteen and two-third per cent to G. T. Pugh, ten per cent to W. N. Dyess, six and one-sixth per cent to E. B. Breck, six and one-sixth per cent to A. L. Rogers, Columbia, S. C. Nut lock. No. 1,404,186; Jan. 24.
- Bodiker, Dallas A., Dayton, Ohio. Moving-picture machine. No. 1,434,805; Nov. 7.
- Bodine, Henry M., Wichita, Kans. Railway tie. No. 1,402,280; Jan. 3.
- Bodine, Murray R., and S. B. Dunlap, Muncy, Pa. Toy. No. 1,402,563; Jan. 3.
- Bodkin, John A., New York, N. Y. Rail anchor. No. 1,431,093; Oct. 3.
- Bodkin, John A., New York, assignor of one-half to W. B. Lee, Baldwin, N. Y. Rail anchor. No. 1,431,094; Oct. 3.
- Bodlund, Robert G., Chicago, Ill. Roller bearing. No. 1,416,164; May 16.
- Bodman, John W., Western Springs, Ill., assignor to William Garrigue & Company, Inc., New York, N. Y. Rotary extracting apparatus. No. 1,424,335; Aug. 1.
- Bodman, John W., Western Springs, Ill., assignor to William Garrigue & Company, Inc., New York, N. Y. Production of light-colored fatty acids. No. 1,439,685; Dec. 26.
- Bodmer, Ernst. (See Alioth, M. and Bodmer.)
- Bodnar, Frank R., Bridgeport, Conn. Automobile signal. No. 1,412,914; Apr. 18.
- Bodri, Christian. (See Baker, William G., assignor.)
- Bodwell, Paul G., Griffin, Ga. Rail-drilling device. No. 1,416,600; May 16.
- Boe, Edd, et al. (See Halseth, Edwin A., assignor.)
- Boe, Edd, assignor of one-fourth to I. D. Kretser, Clearbrook, Minn., one-fourth to D. W. McNabb, Winnipeg, Canada, and one-fourth to E. A. Halseth, Clearbrook, Minn. Thrashing machine. No. 1,422,023; July 4.
- Boe, Hans M., Minneapolis, Minn. Grease or oil dispensing apparatus. (Reissue.) No. 15,427; Aug. 1.
- Boe, Harry T., assignor to The Vaile-Kimes Company, Dayton, Ohio. Float switch. No. 1,419,352; June 13.
- Boe, Helmer J., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Mechanism for covering cores. No. 1,405,710; Feb. 7.
- Boe, Ole K. (See Rolme, Even J., assignor.)
- Boeckh Company, Limited, The. (See Kirkpatrick, Harry J., assignor.)
- Boecler, Albert, Malmö, Sweden. Device for recovering rubber solvents. No. 1,426,949; Aug. 22.
- Boecler, Albert, Malmö, Sweden, assignor to Benzine Condensation Co. Inc. Machine for the production of rubber-coated textiles and the like. No. 1,406,919; Feb. 14.
- Boecler, Albert, Malmö, Sweden, assignor to Benzine Condensation Co., Inc. Machine for applying solutions of rubber or the like to fabrics. No. 1,422,822; July 18.
- Boedtcher, Franz A., Bergenfield, N. J. Combined elevator-door-locking and circuit-controlling device. No. 1,413,570; Apr. 25.
- Boeger, Charles J. (See Wichers, P. H., and Boeger.)
- Boeck, William E., Jersey City, N. J. Portable elevator. No. 1,409,906; Mar. 21.
- Boeck, William E., assignor to Revolverator Company, Jersey City, N. J. Hoisting apparatus. No. 1,417,022; May 23.
- Boehl, Mary J., Cheney, Wash. Cooking utensil. No. 1,408,256; Feb. 28.
- Boehm, Adolph J., deceased, New York, N. Y.; F. A. Boehm, administratrix. Fire door. No. 1,419,807; June 13.
- Boehm, Florence A., administratrix. (See Boehm, Adolph J.)
- Boehm, Rudolph A., assignor to Rickert-Shafer Company, Erie, Pa. Collapsible tap. No. 1,415,013; May 9.
- Boehme, John H., Onawa, Iowa. Marker for planters. No. 1,404,480; Feb. 7.
- Boehmer, Ernst J., St. Louis, Mo. Safety guard for machines. No. 1,412,814; Apr. 11.
- Boehringer, John A., New York, N. Y. Finger-tip protector. No. 1,408,070; Feb. 28.
- Boeing Airplane Company. (See Marsh, Louis S., assignor.)
- Boeing, William E. (See Kirsten, Kurt F. J., assignor.)
- Boekemann, Frederick A. (See Schorpp, Louis, assignor.)
- Boelman, George, Gridley, Calif. Fruit catcher. No. 1,415,863; May 16.
- Boening, Ernest E., Yonkers, N. Y. Brake. No. 1,402,042; Jan. 3.
- Boerder, Anton, Toledo, Ohio, assignor, by mesne assignments, to U. S. High Speed Steel & Tool Corporation, New York, N. Y. High-speed tool material. No. 1,415,085; May 9.
- Boerner, Arno, Scheveningen, Netherlands. Aircraft fuselage. No. 1,402,736; Jan. 10.
- Boerner, Arno, Scheveningen, Netherlands. System or method of feeding combustion engines for airships. No. 1,423,987; July 25.
- Boerum, William H., assignor of one-half to J. E. Ware, Yukon, Fla. Spark arrester. No. 1,436,569; Nov. 21.
- Boesch Lamp Company. (See Savery, Edwin, assignor.)
- Boesel, Aloysius G. (See Bosworth, C. M., and Boesel.)
- Boesser, Frederick, Perth, Western Australia, Australia. Washer for drinking glasses and vessels. No. 1,433,337; Oct. 24.
- Boettcher, Arthur H., assignor to Gulbransen-Dickinson Company, Chicago, Ill. Musical instrument. No. 1,402,474; Jan. 3.
- Boettcher, Otto J., assignor of two-fifths to F. W. Maas and one-fifth to G. C. Hume, Chilton, Wis. Hoisting tackle. No. 1,422,174; July 11.
- Boever, Alexis. (See Dutoit, Paul, assignor.)
- Bogaty, Hermann. (See Ayres, E. B., and Bogaty.)
- Bogaty, Hermann, assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Looping device for driers. No. 1,421,153; June 27.
- Bogaty, Hermann, Philadelphia, and J. L. Buckley, Pittsburgh, assignors to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Decalcomania and drying machine for pottery. No. 1,414,856; May 2.
- Bogda, Frank H., Horicon, Wis. Stock-watering device. No. 1,416,936; May 23.
- Bogdanoff, Paul G., Battle Creek, Mich. Split lubricating bearing for shafts, etc. No. 1,421,661; July 4.
- Bogdanski, Alexander, Cohoes, N. Y. Churn. No. 1,436,642; Nov. 28.
- Bogdanski, Alexander, Cohoes, N. Y. Trolley switch. No. 1,438,690; Dec. 12.
- Boge, Adolf, Solingen, Germany. Lock. No. 1,423,553; July 25.
- Bogert, Eugene, Ridgewood, N. J. Joint for crossing bars. No. 1,419,446; June 13.
- Boggess, Edward M., Elwood, Ind. Casting gun and reel. No. 1,434,768; Nov. 7.
- Boggio, Alfredo S., Buenos Aires, Argentina. Calculator. No. 1,435,512; Nov. 14.
- Boggs, Albert A., Toronto, Ontario, Canada. Motor-car steering wheel. No. 1,410,159; Mar. 21.
- Boggs, Cecil K. (See Boggs, John A. and C. K.)
- Boggs, John A., Berlin, and C. K. Boggs, Baltimore, Md. Electrical control for winding spring motors. No. 1,438,891; Dec. 12.
- Bogopolsky, Jacques, assignor to Societe Anonyme pour l'Exploitation d'Inventions "I. S. A." Geneva, Switzerland. Automatic shutter-starting device for photographic cameras. No. 1,408,976; Mar. 7.
- Bogstrand, Ole K., Brooklyn, N. Y. Tool. No. 1,430,932; Oct. 3.
- Bohac, Leonard S., Cedar Rapids, Iowa. Apparatus for opening telephone circuits at a distance. No. 1,436,570; Nov. 21.
- Bohan, Frank T., New Brunswick, N. J. Tire cover. No. 1,428,580; Sept. 12.
- Bohau, Patrick J., assignor of one-half to J. E. Frazer, San Diego, Calif. Gas burner. No. 1,415,141; May 9.
- Bohdanovicz, Casimir. (See Gieryski, L. C., and Bohdanovicz.)
- Böhle, Karl, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Swaging press. No. 1,429,838; Sept. 19.
- Bohli, Jacques. (See Steiner, G., and Bohli.)
- Bohli, Jacques, Obach-Solothurn, assignor to the Firm Scintilla, Solothurn, Switzerland. Magneto-ignition apparatus for internal-combustion engines. No. 1,417,134; May 23.
- Bohli, Jakob, Obach, assignor to Firm Scintilla, Solothurn, Switzerland. Electrical starting and igniting apparatus. No. 1,427,054; Aug. 22.
- Bohlin, Nels, and S. Forner, Chicago, Ill. Renewable fuse plug. No. 1,429,672; Sept. 19.
- Bohlman, Ernest A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Desk stand. No. 1,431,925; Oct. 17.
- Böhlmann, Theodore H. E., Maplewood, Mo. Piston ring. No. 1,420,406; June 20.
- Böhm, Emil, Berlin-Karlshorst, Germany. Key ring. No. 1,412,011; Apr. 4.
- Böhm, Fritz, Rothenbach, Germany. Alarm device for locomotives. No. 1,408,257; Feb. 28.

- Bohman, Axel J., Minneapolis, Minn. Internal-combustion engine. No. 1,420,236; June 20.
- Böhmer, Max, Chemnitz, Germany, assignor to O. A. Belger, Newtonville, Mass. Wool-combing machine. No. 1,429,911; Sept. 19.
- Böhmer, Max, Chemnitz, Germany, assignor to O. A. Belger, Boston, Mass. Half lap for combing machines. No. 1,431,904; Oct. 10.
- Bohmker, John C., Bradley, assignor to Sears, Roebuck and Co., Chicago, Ill. Plowshare. No. 1,416,937; May 23.
- Bohmker, John C., Bradley, assignor to Sears, Roebuck and Company, Chicago, Ill. Disk bearing. No. 1,422,918; July 15.
- Bohmker, John C., Bradley, assignor to Sears, Roebuck and Co., Chicago, Ill. Detachable plowshare. No. 1,439,222; Dec. 19.
- Bohn, Gustav, and H. A. Breining, Philadelphia, Pa.; said Breining assignor to said Bohn. Machine for synchronously reproducing sounds and projecting pictures. No. 1,432,273; Oct. 17.
- Bohnak, Andrew, McClellandtown, Pa. Ride-feeding attachment. No. 1,436,232; Nov. 21.
- Bohnenbust, Romanus, Leonardville, Kans. Water motor. No. 1,402,710; Jan. 3.
- Bohri, Frederick C., Los Angeles, Calif. Washboard clamp. No. 1,427,434; Aug. 29.
- Boileau, Henri, Bois-Colombes, assignor of one-half to G. Debladis, Paris, France. Pneumatic gun. No. 1,405,664; Feb. 7.
- Boileau, Walter K., Baltimore, Md., assignor to Pittsburgh Oil Refining Corporation. Treating brake and transmission bands. No. 1,418,695; June 6.
- Boileau, Walter K., Baltimore, Md., assignor to Pittsburgh Oil Refining Corporation. Transmission and motor oil. No. 1,423,512; July 25.
- Boillot, Charles E., Brooklyn, N. Y. Self-winding clock mechanism. No. 1,416,254; May 16.
- Boin, Romain, Argenteuil, France. Dynamo-electric direct-current generator. No. 1,433,597; Oct. 31.
- Boinski, Edmund K. (See Piechocki, J. C., and Boinski.)
- Boisset, Charles L., New Orleans, La. Variable-stroke hydraulic pump. No. 1,418,616; June 6.
- Boivin, Louis, Woodland, Me. Automatic stock regulator for paper machines. No. 1,408,977; Mar. 7.
- Boker, Vitus A., Minneapolis, Minn. Automatic filing machine. No. 1,412,915; Apr. 18.
- Bokor, Géza, Melrose Park, Ill. Nutcracker. No. 1,436,571; Nov. 21.
- Bolam, Robert F., Trafford, Pa. Cue. No. 1,407,512; Feb. 21.
- Bolan, James, Boston, Mass. Piston for internal-combustion engines. No. 1,402,393; Jan. 3.
- Boland, Edward J., Freeport, Ill. Safety guard. No. 1,409,075; Mar. 7.
- Bolander, Louis P., San Francisco, Calif. Flagpole. No. 1,438,166; Dec. 12.
- Boldizzoni, Teobaldo, New York, N. Y. Amusement apparatus. No. 1,409,279; Mar. 14.
- Boldt, Herbert A., Buffalo, N. Y. Street-cleaning apparatus. No. 1,427,188; Aug. 29.
- Bolen, Emerson A., assignor to The Northwestern Corporation, Morris, Ill. Stamp-vending machine. No. 1,419,353; June 13.
- Bolenbaugh, Burton R., C., and R. S., and L. W. Long, Jackson, Mich., assignors of one-third to said Burton R. C., and R. S. Bolenbaugh, one-sixth to said Long, one-sixth to A. Paulson, New York, N. Y., one-sixth to H. E. Keeler, Ann Arbor, Mich., and one-sixth to L. H. Flynn, Albany, N. Y. Wheel construction. No. 1,406,920; Feb. 14.
- Bolenbaugh, Burton R., C. Bolenbaugh, R. S. Bolenbaugh, and L. W. Long, Jackson, Mich., assignors of one-sixth to A. Paulson, New York, N. Y., one-sixth to L. W. Long, Jackson, Mich., one-sixth to H. E. Keeler, Ann Arbor, Mich., one-sixth to L. H. Flynn, Albany, N. Y., one-third to B. R. Bolenbaugh, C. Bolenbaugh, and R. S. Bolenbaugh. Wheel construction. No. 1,408,258; Feb. 28.
- Bolenbaugh, Burton R., and R. S. and L. W. Long, Jackson, Mich., assignors of one-third to said Burton R. C., and R. S. Bolenbaugh, one-sixth to said Long, one-sixth to A. Paulson, New York, N. Y., one-sixth to H. E. Keeler, Ann Arbor, Mich., and one-sixth to L. H. Flynn, Albany, N. Y. Wheel construction. No. 1,428,468; Sept. 5.
- Bolenbaugh, Cyrus. (See Bolenbaugh, Burton R., C., R. S., and Long.)
- Bolenbaugh, Ray S. (See Bolenbaugh, Burton R., C., and R. S., and Long.)
- Bolens, Coite H., et al., administrators. (See Bowser, Augustus.)
- Bolens, H. W., et al. (See Strite, George T., assignor.)
- Bolens, Harry W., Port Washington, Wis. One-piece metallic galley. No. 1,420,363; June 20.
- Boley, Ernst, Cleveland, Ohio. Roofing nail. No. 1,435,134; Nov. 7.
- Bolf, John, Miles, Tex. Animal catcher. No. 1,436,473; Nov. 21.
- Bolger, John E. (See Condy, Alice, assignor.)
- Bolger, Robert S., Richmond Hill, N. Y. Method of and machine for manufacturing paper barrels. No. 1,428,469; Sept. 5.
- Bolger, Robert S., Richmond Hill, N. Y. Paper barrel and manufacturing the same. No. 1,436,643; Nov. 28.
- Bolger, Robert S., Richmond Hill, assignor to International Motor Company, New York, N. Y. Truck body. No. 1,439,790; Dec. 26.
- Bolger, Robert S., assignor to International Motor Company, New York, N. Y. Winch. No. 1,425,233; Aug. 8.
- Bolinski, Herman J., Detroit, Mich. Drive wheel for tractors. No. 1,431,362; Oct. 10.
- Bolitho, John B., Eltham, England. Amplifying device for use in wireless telegraphy. No. 1,407,245; Feb. 21.
- Bolles, William B., Milwaukee, Wis. Detent device for locking bolts. No. 1,431,562; Oct. 10.
- Bollinck, Arthur, Brussels, Belgium. Pump of variable capacity. No. 1,428,876; Sept. 12.
- Bolling, John E., assignor to Drying Systems, Inc., Chicago, Ill. Drying apparatus. No. 1,431,145; Oct. 10.
- Bolling, John E., assignor to Drying Systems Inc., Chicago, Ill. Drying apparatus. No. 1,431,146; Oct. 10.
- Bolling, Robert F., Detroit, Mich. Bake oven. No. 1,433,598; Oct. 31.
- Bollmann, Hermann, Hamburg, Germany. Extraction of fat and oil from raw materials. No. 1,411,154; Mar. 28.
- Bollmann, Hermann, Hamburg, Germany. Separating extractive matters from solutions of mixtures of solvents and of recovering the latter. No. 1,417,477; May 23.
- Bollow, Lee W., Chicago, Ill. Fixture for water-closet bowls. No. 1,426,950; Aug. 22.
- Bolls, William W., Washington, D. C. Bead threader. No. 1,417,713; May 30.
- Bologh, Philip, New York, N. Y. Window construction. No. 1,404,085; Jan. 17.
- Bologh, Philip, New York, N. Y. Skylight ventilator. No. 1,421,154; June 27.
- Bolser, George W., Cleveland, Ohio. Inner tube for tires. No. 1,429,015; Sept. 12.
- Boite, E. F. (See Boite, Theodore H., assignor.)
- Boite, Joseph G., Davenport, Iowa. Derrick. No. 1,412,159; Apr. 11.
- Boite, Theodore H., Kearney, Nebr., assignor of one-half to E. F. Boite, Chicago, Ill. Wagon-reach coupling. No. 1,404,264; Jan. 24.
- Bolton, Edward R., and E. J. Lush, London, assignors to Technical Research Works Limited, London, England. Neutralization of oils and fats. No. 1,419,109; June 6.
- Bolton, Harry. (See Wallace, George, assignor.)
- Bolton, John R., Brooklyn, assignor to A. G. Spalding & Bros., New York, N. Y. Golf-practice net. No. 1,430,280; Sept. 26.
- Bolton, Sidney B. (See Bridgford, A. G., and Bolton.)
- Boltshauser, Heinrich, Zurich, Switzerland. Device for recooling the cooling water of steam-condensing plants on vehicles. No. 1,402,043; Jan. 3.
- Boltshauser, Heinrich, Zurich, Switzerland. Tubular heater for the air for combustion of steam locomotives. No. 1,438,088; Dec. 5.
- Boltshauser, Heinrich, Zurich, Switzerland. Railway train. No. 1,439,223; Dec. 19.
- Bomborn, Bernhard. (See Hoffmann, A., and Bomborn.)
- Bommarius, Frederick H., and P. Carollo, New Orleans, La. Sectional vehicle tire. No. 1,433,338; Oct. 24.
- Bonat, Harry. (See Bonat, Samuel and H.)
- Bonat, Samuel and H., New York, N. Y. Wig. No. 1,433,869; Oct. 31.
- Bonawitz, Henry, Brooklyn, N. Y. Heel. No. 1,439,600; Dec. 19.
- Boneczyk, Vincent, Riverhead, N. Y. Automobile lock. No. 1,412,605; Apr. 11.
- Bond, Charles F., Coulee City, Wash. Concrete mold. No. 1,407,246; Feb. 21.
- Bond, Frank, Washington, D. C. Producing lustrous designs. No. 1,435,802; Nov. 14.
- Bond, Frank A., Pittsburgh, Pa. Cross-chain emergency repair link. No. 1,411,836; Apr. 4.
- Bond, John W., Victoria, British Columbia, Canada. Floating sinker. No. 1,408,927; Mar. 7.
- Bond, Loren C., Washington, D. C. Weather strip for doors and windows. No. 1,407,921; Feb. 28.
- Bond, Loren C., Washington, D. C. Stringed musical instrument. No. 1,431,773; Oct. 10.
- Bondaruk, Philip, Milford, Mass. Mouse trap. No. 1,409,353; Mar. 14.
- Bone, Benjamin F., et al. (See Dungan, John E., assignor.)
- Bone, Lorain R. (See Kilgore, T. S., and Bone.)
- Bone, Matthew. (See Parsons, C. A., Carnegie, and Bone.)
- Bone, Matthew. (See Parsons, C. A., Carnegie, Bone, and Cook.)
- Bonekemper, George H., Paterson, N. J. Ice-pan signal. No. 1,409,318; Mar. 14.
- Bonelli, George A., Kingman, Ariz. Form for making pipe. No. 1,403,585; Jan. 17.
- Bonelli, George A., Kingman, Ariz. Wave and tidal motor. No. 1,405,746; Feb. 7.
- Bonelli, George A., Kingman, Ariz. Concrete mixer. No. 1,437,337; Nov. 28.
- Boner, Hans, Mäulein, Switzerland. Cleaving wedge. No. 1,407,719; Feb. 28.
- Boner, John J., Blue Island, Ill. Lock. No. 1,438,089; Dec. 5.
- Bongiovanni, Antonio, assignor of one-half to R. T. Whalen, Barnesboro, Pa. Globe support. No. 1,436,474; Nov. 21.

Alphabetical list of patentees—Continued.

- Bongom, Nels. Lake Mills, Iowa. Ticket-printing device. No. 1,401,955; Jan. 3.
- Bonhan, Cornelius L. (See Eggert, C. J. and J. Bonhan.)
- Boniface, Nicholas, Beverly, Mass. Pump. No. 1,437,338; Nov. 28.
- Bonin, Karl L., Chicago, Ill. Grater. No. 1,420,017; June 20.
- Bonine, Charles E., Melrose Park, Pa. Refrigeration. No. 1,440,000; Dec. 26.
- Boniti, Gerardo, Pavia, Italy. Artillery-fire-control apparatus. No. 1,409,891; Mar. 14.
- Bonk, Frank J. (See Stewart, A. W., and Bonk.)
- Bonnafé, Oliver W., Central Falls, R. I., assignor to Lapointe Machine & Tool Company, Hudson, Mass. Work-supporting device for broaching machines. No. 1,431,624; Oct. 10.
- Bonneau, Edme E. J., Paris, France. Gyroscopic top. No. 1,435,580; Nov. 14.
- Bonneau, Edme E. J., Y. P. G. Le Prieur, and G. Derrien, Paris, France. Luminous gyroclinometer. No. 1,412,997; Apr. 18.
- Bonnefont, Antoine, Paris, France. Crystal detector for wireless telegraphy. No. 1,410,793; Mar. 28.
- Bonnell, E. M., et al. (See Pierce, F. A., and Davidson, assignors.)
- Bonnell, Irven, Madison, Wis. Shingle gauge. No. 1,405,393; Feb. 7.
- Bonnell, William L., Chickasha, Okla. Wrench. No. 1,401,936; Jan. 3.
- Bonnell, William W., Bellevue Borough, Pa. Memorandum apparatus. No. 1,409,655; Mar. 14.
- Bonnelycke, Emil. (See Karr, Henry C., assignor.)
- Bonner, William T., Trenton, N. J., assignor to M. Brown, Boston, Mass. Brake. No. 1,426,543; Aug. 22.
- Bonnet, Edmond. (See Radelet, F., and Bonnet.)
- Bonnevie, Morris. (See Gschwind, Leon, assignor.)
- Bonney-Floyd Company, The. (See Dorsey, Walter A., assignor.)
- Bonsall, Charles D., Parnassus, Pa., assignor to W. P. Murphy, New York, N. Y. Reinforced car end-wall structure. No. 1,422,823; July 18.
- Bonsall, Charles D., New Kensington, Pa., assignor to W. P. Murphy, New York, N. Y. End reinforcement for railway box cars. No. 1,432,956; Oct. 24.
- Bonsiakos, Michael, San Francisco, Calif. Printing device. No. 1,426,708; Aug. 22.
- Bonsor, Walter, assignor of one-half to W. C. Steenburg, South Bend, Ind. Carbonizing method. No. 1,422,530; July 11.
- Boobar, Emma, Minneapolis, Minn. Corset with abdominal support. No. 1,427,087; Aug. 29.
- Booge, James E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Noncracking coating composition and artificial leather made therewith. No. 1,412,770; Apr. 11.
- Booge, James E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Treating by-product zinc oxide. No. 1,426,349; Aug. 22.
- Bookhout, James R. (See Bookhout, John J. and J. R.)
- Bookhout, John J. (See Smith, P. W., and Bookhout.)
- Bookhout, John J., et al. (See Smith, Primus W., assignor.)
- Bookhout, John J. and J. R. Dallas, Tex. Multiple-cutter drill bit. No. 1,428,187; Sept. 5.
- Boomer, George A., assignor to The Plume & Atwood Mfg. Co., Waterbury, Conn. Shade holder for threaded electric-lamp sockets. No. 1,426,951; Aug. 22.
- Boomer, Ralph J. (See Lamoreaux, L., and Boomer.)
- Boon, Cordelia, et al. (See Trane, Raymond, assignor.)
- Boon, Wilfred L., North Attleboro, Mass. T-square. No. 1,419,354; June 13.
- Boone, Daniel, et al. (See Taylor, Owen, assignor.)
- Boone, Elsworth E., assignor of one-half to D. D. Neal, Anderson, Ind. Vegetable and fruit counter. No. 1,419,209; June 13.
- Boone, Enoch, assignor to Phoenix Horse Shoe Company, Poughkeepsie, N. Y. Machine for making heels on horse-shoe blanks. No. 1,420,517; June 20.
- Boone, Enoch, assignor to Phoenix Horse Shoe Company, Poughkeepsie, N. Y. Making heeled horseshoes. No. 1,420,518; June 20.
- Boone, Robert G., Asbury Park, N. J. Combined heater and ventilator. No. 1,416,601; May 16.
- Boone, Robert G., Asbury Park, N. J., assignor to R. Stockton and G. G. Bourne, New York, N. Y., and J. Kerney, Trenton, N. J. Heater. No. 1,416,255; May 16.
- Boone, Rowland H. (See Schroeder, A. H., and Boone.)
- Boone, Tiel S., St. Louis, Mo. Device for facilitating the cutting of adhesive plasters. No. 1,434,675; Nov. 7.
- Boonzaier, Wilhelm G., London, England. Valveless pump. No. 1,438,691; Dec. 12.
- Boop, Rufus F., Millmont, Pa. Pipe wrench. No. 1,410,794; Mar. 28.
- Boop, Rufus F., Millmont, Pa. Hand-planter attachment. No. 1,439,601; Dec. 19.
- Boorne, William H., London, England. Electrode for use in depositing molten metal and making same. No. 1,403,380; Jan. 10.
- Boorne, William H., London, England. Electrode for electric-arc welding and metal-cutting purposes. No. 1,415,774; May 9.
- Boorum & Pease Company. (See McCleary, Henry R., assignor.)
- Boos, Casper M. B., Chicago, assignor, by mesne assignments, to No-Frez Silo Co., Elgin, Ill. Silo and constructing the same. No. 1,438,090; Dec. 5.
- Boos, George, et al. (See Crouch, Thomas C., assignor.)
- Booth, Charles W., Chicago, Ill. Golf club. No. 1,412,650; Apr. 11.
- Booth, Ebenezer H., Binghamton, N. Y. Pipe wrench. No. 1,411,471; Apr. 4.
- Booth Electric Furnace Co., The. (See Booth, William K., assignor.)
- Booth, Frank, Safford, Ariz. Combination tire rack and changer. No. 1,418,279; June 6.
- Booth, George W., Islington, Ontario, Canada. Tunnel kiln. No. 1,403,734; Jan. 17.
- Booth, George W., Islington, Ontario, Canada. Tunnel kiln. No. 1,421,155; June 27.
- Booth, John T., Birmingham, England. Internal-combustion engine. No. 1,405,747; Feb. 7.
- Booth, Lemuel E., assignor of one-half to G. W. John, Des Moines, Iowa. Lining for brakes and clutches. No. 1,406,720; Feb. 14.
- Booth, Lionel B., Cambridge, England. Objective for photographic and like purposes. No. 1,421,156; June 27.
- Booth, Lionel E. (See Wilkinson, J. R., Barnard, and Booth.)
- Booth, Percy, Warrington, England. Apparatus for making wire sieves or floors. No. 1,407,184; Feb. 21.
- Booth, Robert B. (See Armstrong, John J., assignor.)
- Booth, Ronald C. (See Chadderton, I., and Booth.)
- Booth, Walter E. (See Barwell, J. W., Ward, Nelson, Hingher, Booth, and Blows.)
- Booth, Walter F., Little Rock, Ark. Apparatus for removing obstructive deposits in oil wells. No. 1,414,171; Apr. 25.
- Booth, William C., Evanston, Ill. Shower or spraying attachment for bathtubs. No. 1,415,014; May 9.
- Booth, William K., assignor to The Booth Electric Furnace Co., Chicago, Ill. Furnace. No. 1,418,773; June 6.
- Booth, William N., Detroit, Mich. Demountable rim. No. 1,436,336; Nov. 21.
- Booth, William N., assignor to Kelsey Wheel Company, Inc., Detroit, Mich. Vehicle wheel rim. No. 1,405,481; Feb. 7.
- Boothroyd, Frank E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Electrically-heated burnishing machine. No. 1,410,053; Mar. 21.
- Booton, Harry. (See Salmon, H., and Booton.)
- Boots, Edgar W. (See Tolla, T., and Boots.)
- Booty, Stanley S., Sutton, England. Container for powder. No. 1,418,520; June 6.
- Booty, Stanley S., London, England. Box and the like. No. 1,424,071; July 25.
- Borcherdt, Walter O., Austinville, Va., assignor to The New Jersey Zinc Company, New York, N. Y. Flotation of minerals. No. 1,440,129; Dec. 26.
- Borchert, Albert G., Cleveland, Ohio. Frame construction. No. 1,415,775; May 9.
- Borchert, William, Rockford, Ill. Tag. No. 1,412,998; Apr. 18.
- Bordas, John, Miami, Fla. Blow-out patch. No. 1,425,234; Aug. 8.
- Bordelon, Apolenaire O. (See Herpin, Edward P., assignor.)
- Borden Company, The. (See Hughes, John C., assignor.)
- Borden Company, The. (See Kirkup, Joseph P., assignor.)
- Borden Company, The. (See Nonneman, Ira W., assignor.)
- Borden, Horace, New Bedford, Mass. Trap. No. 1,412,651; Apr. 11.
- Borden, Howard S. (See Hoyne, Christopher R., assignor.)
- Borden, Libbie, Spokane, Wash. Refrigerator. No. 1,428,073; Sept. 5.
- Borders, Harry L., St. Louis, Mo. Knockdown corrugated paper box. No. 1,437,221; Nov. 28.
- Bordigon, John, assignor to Eastman Kodak Company, Rochester, N. Y. Photographic camera. No. 1,418,280; June 6.
- Bordwell, Lavern, New York, N. Y. Beater. No. 1,437,957; Dec. 5.
- Boreiko, Ladislav B., Honolulu, Hawaii. Loading and transporting apparatus. No. 1,422,252; July 11.
- Boren, Henry H., Bakersfield, Calif. Tire. No. 1,411,155; Mar. 28.
- Borer, Frank J., Roselle Park, N. J. Pressure-retaining valve for fluid brakes. No. 1,440,001; Dec. 26.
- Borg, Johan L., assignor to Aktiebolaget Svenska Kullager-fabriken, Gottenborg, Sweden. Ball bearing provided with an entrance opening for the balls. No. 1,405,894; Feb. 7.
- Borg & Beck Company, The. (See Nelson, Gustave C., assignor.)
- Borge, Manuel, Jr., Managua, Nicaragua. Electric switch. No. 1,410,795; Mar. 28.
- Borgen, Harold, Urmston, and G. W. Wadsworth, Flixton, England. Apparatus for making margarine compounds and other substances. No. 1,418,357; June 6.
- Borgmunt, Esther, assignor to Brand Brothers, New York, N. Y. Garment. No. 1,407,319; Feb. 21.
- Borger, Henry E., assignor to Splitdorf Electrical Company, Newark, N. J. Electric lighting system. No. 1,404,187; Jan. 24.

- Borger, Henry E., assignor to Splittorf Electrical Company, Newark, N. J. Dynamo-electric-machine armature. No. 1,416,256; May 16.
- Borger, Henry E., assignor to Splittorf Electrical Company, Newark, N. J. Circuit breaker. No. 1,436,693; Nov. 28.
- Borgner, Conrad W., Lowville, N. Y. Sanitary closure for bottles. (Reissue.) No. 15,346; May 2.
- Borgo, Edmondo M., Turin, Italy. Gear case with members of stamped metallic plate easily removable and adjustable in length. No. 1,402,044; Jan. 3.
- Borgo, Edmondo M., Turin, Italy. Intermittent starting device for internal-combustion motors. No. 1,406,146; Feb. 7.
- Borgo, Edmondo M., Turin, Italy. Mud guard with lower elastic apron. No. 1,408,719; Mar. 7.
- Borgstrom, Ernest A., et al. (See Engelbrekt, Gustaf, assignor.)
- Borick, Frank V., New York, N. Y. Screw driver. No. 1,422,411; July 11.
- Borkenstein, Frank J., Fort Wayne, Ind., assignor to Art Mosaic and Tile Company, Toledo, Ohio. Joint strip for concrete floors. No. 1,429,564; Sept. 19.
- Borkman, Carl O., Victor, Colo. Wrench. No. 1,428,835; Sept. 12.
- Borkowski, Wladyslaw, West Willington, Conn. Shoemaker's double last. No. 1,431,625; Oct. 10.
- Borland, Bruce, Chicago, Ill. Fastener for container caps. No. 1,408,857; Mar. 7.
- Bormann, Gustav, Hanover, Germany. Rubber heel. No. 1,429,673; Sept. 19.
- Born, Julius M., St. Paul, Minn. Luggage carrier. No. 1,418,426; June 6.
- Born Steel Range Company, The. (See Banks, Chester C., assignor.)
- Born Steel Range Company, The. (See Ott, William C. P., assignor.)
- Bornholdt, John, Park River, N. Dak. Potato-cutting machine. No. 1,432,152; Oct. 17.
- Bornholt, Oscar C., Flint, Mich. Multiple-spindle driving mechanism. No. 1,404,265; Jan. 24.
- Bornstein, Esther L., Cambridge, Mass. Play suit. No. 1,418,281; June 6.
- Borofski, Heinrich. (See Ising, G., and Borofski.)
- Borofski, Allen, Ayer, Mass. Automatic locking and retaining device for steering mechanisms. No. 1,415,300; May 9.
- Borresen, Helge A., Chicago, Ill. Reflector. No. 1,431,147; Oct. 10.
- Börreson, Börre H., Minneapolis, Minn. Card or tag holder. No. 1,414,251; Apr. 25.
- Börreson, Börre H., St. Paul, Minn. License tag for motor vehicles. No. 1,428,747; Sept. 12.
- Borthwick, Craigie G., Corstorphine, Scotland. Golf and like bag. No. 1,410,989; Mar. 28.
- Bortsfeld, Edward L. (See Bradley, J. A., and Bortsfeld.)
- Bortz, John W. (See Daniel, Albert J., assignor.)
- Boruslewski, Stanley S., Portland, Oreg. Saw-setting device. No. 1,437,289; Nov. 28.
- Boruszak, Leon, et al. (See Sheller, John C., assignor.)
- Boryk, John M., Ansonia, Conn. Lock. No. 1,404,007; Jan. 17.
- Bosanko, William. (See Fredel, M. M., and Bosanko.)
- Bosard, Ray F., Knoxville, Pa. Means for using automobile power industrially. No. 1,407,513; Feb. 21.
- Bosc, Henri. (See Waile, E., and Bosc.)
- Boscato, Vittorio, Diano Marina, Italy. Automatic starting device. No. 1,404,086; Jan. 17.
- Bosch, Carl, assignor, by mesne assignments, to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Bavaria, Germany. Production of oxides of nitrogen from ammonia by catalytic oxidation. No. 1,426,952; Aug. 22.
- Bosch, Carl, and W. Meiser, assignors, by mesne assignments, to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Bavaria, Germany. Manufacturing urea. No. 1,429,483; Sept. 19.
- Bosch, Robert, Aktiengesellschaft. (See Kratz, Franz, assignor.)
- Bosch, Robert, Aktiengesellschaft. (See Kratz, Franz, Starker, and Selling, assignors.)
- Bose, Monte H., Indianapolis, Ind. Radiator-petcock attachment. No. 1,422,919; July 18.
- Bösebeck, Emil. (See Türck, E., and Bösebeck.)
- Bosel, Albert C., Crosby, Minn. Collapsible trap nest. No. 1,413,894; Apr. 25.
- Bosler, George A., Chicago, Ill. Weather strip. No. 1,409,332; Mar. 14.
- Bosque, José V., and P. G. y Casañas, Habana, Cuba. Speed-indicating device. No. 1,421,390; July 4.
- Bossard, Gilbert L. (See Zaugg, Rudolf, assignor.)
- Bossé, Adolph E., Arden, Del., and C. W. Ford, assignors to Bossé-Ford Company, Philadelphia, Pa. Temperature-regulating valve. No. 1,429,923; Sept. 26.
- Bossé-Ford Company. (See Bossé, A. E., and Ford, assignors.)
- Bossert, Charles P., assignor to Pfister & Vogel Leather Co., Milwaukee, Wis. Pigment-stirring pan. No. 1,417,885; May 30.
- Bossert, Charles P., assignor to Pfister & Vogel Leather Co., Milwaukee, Wis. Machine for treating hides and skins. No. 1,421,662; July 4.
- Bossert, Ernst, Cincinnati, Ohio. Die shaper. No. 1,434,082; Oct. 31.
- Bossert, William F., Utica, N. Y. Semaphore blade. No. 1,434,476; Nov. 7.
- Bosshard, Theodore, Brooklyn, N. Y. Confection-making apparatus. No. 1,419,808; June 13.
- Bossi, Enea. (See Kieran, John J., assignor.)
- Bossum, Robert P., Brighton, England. Electromagnetic lockout switch. No. 1,414,453; May 2.
- Bostaph Engineering Corporation. (See Ramage, Alexander S., assignor.)
- Bostedo, Louis G., Chicago, Ill. Method of and means for propelling craft navigating a fluid medium. No. 1,405,482; Feb. 7.
- Bostic, John L., Wainwright, assignor of one-half to Invader Oil Corporation, Muskogee, Okla. Combined cup protector and casing cleaner for pump plungers. No. 1,427,435; Aug. 29.
- Bostock, Francis J. (See Brown, P., and Bostock.)
- Bostock, Francis J., and S. Bramley-Moore, Netherton, Huddersfield, England. Gear tooth. No. 1,434,987; Nov. 7.
- Boston, Arvel A., New Martinsville, W. Va. Battery filler. No. 1,423,393; July 18.
- Boston Clip and Tag Company. (See Williams, George H., assignor.)
- Boston Last Company. (See Heath, D. B. and Annis, assignors.)
- Boston Pressed Metal Co. (See Needham, William H., assignor.)
- Bostrom, Axel G. (See Holmes, G. E., and Bostrom.)
- Bostrom, Axel G. (See Holmes, G. E., and J. M. and A. G. Bostrom.)
- Bostrom, John M. (See Holmes, G. E., and Bostrom.)
- Bostrom, John M. (See Holmes, G. E., and J. M. and A. G. Bostrom.)
- Bostwick, James B., Jersey City, N. J. Lifting jack. No. 1,433,695; Oct. 31.
- Boswell, George F. (See Wagstaff, Andrew L., assignor.)
- Boswell, Harry E., St. Louis, Mo. Shoe heel. No. 1,414,545; May 2.
- Boswell, Ralph W., Indianapolis, Ind. Shock absorber. No. 1,409,819; Mar. 14.
- Boswell, Robert A., Washington, D. C. Cabinet talking machine. No. 1,429,839; Sept. 19.
- Bosworth, Charles O., San Diego, Calif. Means and method of preparing artificial snow. No. 1,432,153; Oct. 17.
- Bosworth, Cyrus M., Cleveland, and A. G. Boesel, Cleveland Heights, Ohio. Electric water heater. No. 1,415,015; May 9.
- Bosworth, David C. A., Brooklyn, N. Y. Phonograph attachment. No. 1,414,687; May 2.
- Bosworth, George P., Central Falls, assignor to Hemphill Company, Pawtucket, R. I. Knitted glove and making same. No. 1,413,314; Apr. 18.
- Bosworth, George P., assignor to Hemphill Company, Central Falls, R. I. Glove-knitting machine. No. 1,413,452; Apr. 18.
- Bosworth, George P., assignor to Hemphill Company, Central Falls, R. I. Spring-needle knitting machine. No. 1,416,257; May 16.
- Bosworth, George P., assignor to Hemphill Company, Central Falls, R. I. Fashioned hosiery and making the same. No. 1,418,617; June 6.
- Bosworth, George P., assignor, by mesne assignments, to Hemphill Company, Central Falls, R. I. Circular-stocking machine. No. 1,423,177; July 18.
- Bosworth, George P., Central Falls, assignor to Hemphill Company, Pawtucket, R. I. Glove and making same. No. 1,424,072; July 25.
- Bosworth, George P., Central Falls, assignor to Hemphill Company, Pawtucket, R. I. Knitting machine. No. 1,428,317; Sept. 5.
- Bosworth, George P., Central Falls, assignor to Hemphill Company, Pawtucket, R. I. Mechanism for knitting gloves. No. 1,428,318; Sept. 5.
- Bosworth, George P., assignor to Hemphill Company, Central Falls, R. I. Knitted glove and making same. No. 1,428,939; Sept. 12.
- Bosworth, George P., Central Falls, assignor to Hemphill Company, Pawtucket, R. I. Knitting machine. No. 1,433,172; Oct. 24.
- Bosworth, George P., Central Falls, and E. M. Gunning, Pawtucket, R. I., assignors, by mesne assignments, to Hemphill Company, Central Falls, R. I. Splicing mechanism for circular-knitting machines. No. 1,402,394; Jan. 3.
- Bosworth, Littleton B., Albany, Ga. Feed table and guide for paper-ruling machines. No. 1,406,969; Feb. 21.
- Bosworth, Percy B., Springfield, Ohio. Core for pneumatic tires and constructing same. No. 1,409,995; Mar. 21.
- Both, Tonjes A., Stratford, Conn., assignor to The Connecticut Electric Manufacturing Company. Renewable cartridge fuse. No. 1,417,966; May 30.
- Bothe, Andreas, Oreland, assignor to Kleen Products Company, Inc., North Wales, Pa. Fiber spoon. No. 1,435,890; Nov. 14.
- Botnar, Jason, Minneapolis, Minn. Stitch-removing device. No. 1,412,836; Apr. 18.
- Botscheider, George, San Francisco, Calif. Elevator control system. No. 1,409,132; Mar. 7.

Alphabetical list of patentees—Continued.

- Bott, Anton, Frankfort-on-the-Main, Germany, assignor to Société Anonyme Compagnie-Générale Du Verre, Luxembourg, Luxemburg. Closing device for preserve pots. No. 1,402,916; Jan. 10.
- Botta, Ferruccio. (See Arato, Achille, assignor.)
- Botten, Henry W., Lakewood, assignor to The Owen Bucket Company, Cleveland, Ohio. Grab bucket. No. 1,437,392; Dec. 5.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Manifold sales book. No. 1,405,748; Feb. 7.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada. Manifold sales book. No. 1,435,145; Nov. 14.
- Botts, Robert H., Parker, Ariz. Clutch. No. 1,412,606; Apr. 11.
- Bouchard, Uldoric J. (See Schloth, Arthur C. and H. E., assignors.)
- Bouché, William F., Lancaster, Pa., assignor to Gould Coupler Company. Electric generator. No. 1,405,180; Jan. 31.
- Bouché, William F., Buffalo, N. Y., assignor to Gould Coupler Company. Dashpot. No. 1,407,320; Feb. 21.
- Bouché, William F., Lancaster, N. Y., assignor to Gould Coupler Company. Governor. No. 1,415,981; May 16.
- Bouché, William F., Lancaster, and E. J. Blake, Buffalo, N. Y., assignors to Gould Coupler Company. Turbogenerator. No. 1,420,076; June 20.
- Boucher, Edmore N. (See Rosine, C., and Boucher.)
- Boucher, George F. (See Ward, E. K., and Boucher.)
- Boucher, Joseph H., Cambridge, Mass. Cap-crown-protecting device. No. 1,433,103; Oct. 24.
- Boudreaux, Theodore, assignor of one-fourth to I. Gregg and one-fourth to Bibb & Caven, Marshall, Tex. Oil burner. No. 1,434,324; Oct. 31.
- Boughter, H. Dixon, Decatur, Ill. Movable headlight. No. 1,422,732; July 11.
- Bouillon, Charles, Paris, France. Apparatus for leaching minerals. No. 1,406,525; Feb. 14.
- Bouillon, Charles, Paris, France. Decomposing soapy waters. No. 1,410,582; Mar. 28.
- Bouillon, Charles, Paris, France. Apparatus for separating solids from liquids. No. 1,429,320; Sept. 19.
- Bouillon, Constant, assignor to Hendey Machine Company, Torrington, Conn. Machine-tool-driving mechanism. No. 1,407,834; Feb. 28.
- Bouillon, Constant, assignor to Hendey Machine Company, Torrington, Conn. Change-gear mechanism. No. 1,415,515; May 9.
- Boulassier, Louis R. W., Paris, France. Apparatus for measuring the value of the efforts and of the deformations to which organs are submitted when working. No. 1,425,506; Aug. 15.
- Boulineau, William W., Cedartown, Ga. Dirigible spotlight. No. 1,415,982; May 16.
- Bouliissiere, Georges L., Puteaux, France. Roller bearing for radial and thrust loads. No. 1,411,837; Apr. 4.
- Boulogne, Baltus, Soerabaia, Java, Dutch East Indies. Weighing tank for automatic weighing machines. No. 1,426,709; Aug. 22.
- Boulogne, Baltus, Soerabaia, Java, Dutch East Indies. Weighing beam for automatic weighing machines. No. 1,435,693; Nov. 14.
- Boulogne, Baltus, Soerabaia, Java, Dutch East Indies. Buffer for automatic weighing machines. No. 1,437,128; Nov. 28.
- Boulton, Albert E., Buffalo, N. Y. Coin-assembling device. No. 1,401,957; Jan. 3.
- Boulton, George, Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lining-trimming machine. No. 1,406,335; Feb. 14.
- Bouma, Edward, Waterloo, Iowa. Counting machine for printing presses. No. 1,440,130; Dec. 26.
- Boumpfrey, Geoffrey M., Baycliffe, Lymm, England. Disk-record cabinet. No. 1,439,725; Dec. 26.
- Bounds, Ruel E., and P. S. Dumbolton, Wortham, Tex. Self-set animal trap. No. 1,415,301; May 9.
- Bouquet, Max, New York, N. Y. Safety spring catch for pins. No. 1,409,656; Mar. 14.
- Bourdariat, Joseph A., Paris, and M. Diet, Vaucresson, France. Building material. No. 1,411,906; Apr. 4.
- Bourdeau, Leon N., Rock Island, Ill., assignor of one-half to J. G. Sorenson, Davenport, Iowa. Grease cup. No. 1,405,566; Feb. 7.
- Bourdelles, Emile A. L., assignor to Société Anonyme Des Etablissements Delaunay Belleville, St. Denis, France. Machine gun. No. 1,402,564; Jan. 3.
- Boureaux, Désiré V., Detroit, Mich. Snubber. No. 1,421,900; July 4.
- Bourgeois, Victor L. J., assignor of one-half to N. Dubois, Montreal, Quebec, Canada. Loading and unloading apparatus for trucks. No. 1,427,180; Aug. 29.
- Bourke, Thomas N., assignor to Slaymaker Electric Welding Company, Detroit, Mich. Operating rod. No. 1,438,016; Dec. 5.
- Bourke, Ulick, Chicago, Ill. Cabinet. No. 1,431,211; Oct. 10.
- Bourne, Alexander B., Wallaceburg, Ontario, Canada. Film holder. No. 1,415,776; May 9.
- Bourne, George G., et al. (See Boone, Robert J., assignor.)
- Bourne, Phillips P., Winchester, Mass., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Internal-combustion engine. No. 1,415,864; May 16.
- Bourque, David, assignor to G. W. J. Murphy Company, Amesbury, Mass. Turnbutton fastener. No. 1,417,658; May 30.
- Bourque, David, assignor to G. W. J. Murphy Company, Amesbury, Mass. Socket for separable fasteners. No. 1,430,787; Oct. 3.
- Bourque, David, assignor to G. W. J. Murphy Company, Amesbury, Mass. Snap-fastener socket. No. 1,432,660; Oct. 17.
- Bourque, David, assignor to G. W. J. Murphy Company, Amesbury, Mass. Tool for setting fastener parts. No. 1,438,692; Dec. 12.
- Bouscher, William E., Seattle, Wash. Geared locomotives. No. 1,435,374; Nov. 14.
- Boutelle, William H. (Schumacher, E. L., and Boutelle.)
- Bouthillette, Charles, Acton Vale, Quebec, Canada. Wheel tread. No. 1,432,661; Oct. 17.
- Bouton, Edgar M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,406,255; Feb. 14.
- Bouton, Edgar M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system and apparatus. No. 1,421,157; June 27.
- Bouvier, Aure O., Claremont, N. H. Metal-cutting mechanism. No. 1,412,652; Apr. 11.
- Bouvier, Maurice, Lyon, France, assignor to Société Chimique des Usines du Rhone, (Anciennement Gilliard P. Monnet et Cartier,) Paris, France. Dyestuffs of the indigo series. No. 1,412,038; Apr. 11.
- Bouvier, Maurice, Lyon, assignor to Société Chimique des Usines du Rhone Anciennement Gilliard P. Monnet et Cartiers, Paris, France. Obtaining halogen derivatives of indigo and of its homologues. No. 1,414,335; May 2.
- Boivy, (Nicolaaszoon), Jacobus J. B. J., Dordrecht, Netherlands. Belt fasteners. No. 1,430,211; Sept. 26.
- Bovard, William H., E. L. Barker, and C. S. Jenkins, Los Angeles, Calif., said Barker assignor to said Bovard and said Jenkins. Bumper bracket. No. 1,407,835; Feb. 28.
- Bovard, William P., assignor to The Ohio Brass Company, Mansfield, Ohio. Metallic joint and production. No. 1,410,647; Mar. 28.
- Bovard, William P., assignor to The Ohio Brass Company, Mansfield, Ohio. Electric resistance element. No. 1,433,932; Oct. 31.
- Bovee, Ransom Y., Maywood, assignor of one-half to O. J. Buck, Chicago, Ill. Explosion engine. No. 1,424,872; Aug. 8.
- Bovey, Sidney J. V., Chicago, Ill. Spark plug. No. 1,439,791; Dec. 26.
- Bovie, William T., assignor of one-half to W. S. Hughes, Milton, Mass. Sound-reproducing machine. No. 1,411,472; Apr. 4.
- Bovier, Philibert L., Paris, France. Apparatus for the change of views, designs, or characters. No. 1,432,662; Oct. 17.
- Bowden, William, Manchester, England. Liquid-fuel-supply apparatus for internal-combustion engines. No. 1,433,870; Oct. 31.
- Bowditch, Archibald H. (See Kelsey, Frank N., assignor.)
- Bow, David W., Detroit, Mich. Road construction. No. 1,432,957; Oct. 24.
- Bowe, Denis E., Waseca, Minn. Fish-dressing device. No. 1,438,091; Dec. 5.
- Bowen, Alfredo, Santiago, Chile. Automatic trolley retriever for electric trolleys. No. 1,436,936; Nov. 28.
- Bowen, Bowen K., Nashville, Tenn. Dental impression tray. No. 1,411,156; Mar. 28.
- Bowen, Charles, Fort Wayne, Ind. Bumper for automobiles. No. 1,406,921; Feb. 14.
- Bowen, David M., Los Angeles, Calif. Gas radiator. No. 1,413,826; Apr. 25.
- Bowen, David R., and C. F. Schnuck, assignor to Farrel Foundry and Machine Company, Ansonia, Conn. Machine for treating rubber or other plastic material. No. 1,420,959; June 27.
- Bowen, David R., Ansonia, and C. F. Schnuck, New Haven, assignors to Farrel Foundry & Machine Company, Ansonia, Conn. Machine for mixing or masticating rubber and like materials. No. 1,424,445; Aug. 1.
- Bowen, Edward W., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Shoring for concrete forms. No. 1,439,060; Dec. 19.
- Bowen, Eugene F., and E. J. Scott, Providence, R. I. Stamp-affixing machine. No. 1,429,321; Sept. 19.
- Bowen, Frank G., Kansas City, Mo. Key case. No. 1,404,736; Jan. 31.
- Bowen, George W., Bridgeton, N. J. Measuring rule. No. 1,418,358; June 6.
- Bowen, Glenn E., Whittier, Calif. Advertising device. No. 1,409,141; Mar. 7.
- Bowen, James, Swansea, Wales. Cooling device for air-cooled engines. No. 1,424,234; Aug. 1.
- Bowen, James M., Cape May Court House, N. J., assignor to S. L. Allen & Co., Inc. Self-propelled vehicle. No. 1,413,215; Apr. 18.
- Bowen, Jenkin W., S. M. Hart, and J. E. Bowen, Pueblo, Colo. Hydroaeroplane. No. 1,427,257; Aug. 29.
- Bowen, John E., et al. (See Bowen, J. W., Hart, and Bowen.)
- Bowen, Robert J., Winston-Salem, N. C. Plano loader. No. 1,431,363; Oct. 10.
- Bowen, William S., New York, N. Y. Steam generator. No. 1,415,777; May 9.

Alphabetical list of patentees—Continued.

- Bowen, William S., New York, N. Y. Steam generator. No. 1,415,778; May 9.
- Bowen, William S., New York, N. Y. Electrostatic generator. No. 1,415,779; May 9.
- Bowen, William S., New York, N. Y. Producing heat. No. 1,415,780; May 9.
- Bowen, William S., New York, N. Y. Producing heat. No. 1,415,781; May 9.
- Bower, Chester A., Castor, Alberta, Canada. Display rack for phonograph disks. No. 1,421,391; July 4.
- Bower, George W., Schenectady, N. Y., assignor to General Electric Company. Suspension for trolley wires and the like. No. 1,420,407; June 20.
- Bower, George W., Schenectady, N. Y., assignor to General Electric Company. Clamping car. No. 1,420,408; June 20.
- Bower, Harold J., New York, N. Y., assignor to The Hess-Bright Manufacturing Company, Philadelphia, Pa. Thrust and radial ball bearing. No. 1,440,131; Dec. 26.
- Bowerman, Emma, New York, N. Y. Receptacle. No. 1,430,720; Oct. 3.
- Bowers, Claude E., Los Angeles, Calif. Table lock. No. 1,425,833; Aug. 15.
- Bowers, David, executor. (See Wooten, C. T.)
- Bowers, Don S. (See Barney, F. H., and Bowers.)
- Bowers, F. M., and Son Company. (See Ross, Frank V., assignor.)
- Bowers, Floyd O. (See Philo, C. M., and Bowers.)
- Bowers, Fred D., Sugargrove, Pa. Division board for beehives. No. 1,420,960; June 27.
- Bowers, Harold S. (See McPhillips, J. R., and Bowers.)
- Bowers, John. (See Robinson, E. S., and Bowers.)
- Bowers, Robert R., assignor to The Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Combined rake and tedder. No. 1,406,970; Feb. 21.
- Bowers, Robert R., assignor to Dain Manufacturing Co. of Iowa, Ottumwa, Iowa. Draft attachment. No. 1,416,681; May 23.
- Bowers, William C., Newark, N. J., assignor to American Abrasive Metals Company, New York, N. Y. Casting. No. 1,403,005; Jan. 10.
- Bowers, William T., assignor of one-half to T. J. Levey, Baltimore, Md. Piston for internal-combustion engines. No. 1,437,490; Dec. 5.
- Bowersock, Wilbur E., Buffalo, N. Y., assignor to Lawrence Paper Manufacturing Company, Lawrence, Kans. Glue applicator. No. 1,439,464; Dec. 19.
- Bowes, George S., Newcomerstown, Ohio. Attachment for running boards of automobiles. No. 1,407,514; Feb. 21.
- Bowie, Augustus J., et al., trustees. (See Larsen, Edward A., assignor.)
- Bowie, Derwin W., Woodridge, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heel-seat-fitting machine. No. 1,432,524; Oct. 17.
- Bowker, Clinton D., Phoenix, Ariz. Brooder. No. 1,438,693; Dec. 12.
- Bowker, William, Centerville, R. I. Motor-vehicle steering gear. No. 1,438,809; Dec. 12.
- Bowler, Elizabeth, Westport, S. Dak. Garment-supporting device. No. 1,423,749; July 25.
- Bowler, Frank W., Chicago, Ill. Combination comb case. No. 1,421,392; July 4.
- Bowler, Frank W., Chicago, Ill. Reversible window. No. 1,427,088; Aug. 29.
- Bowles, Byron E. and M. E., Council Bluffs, Iowa. Door check. No. 1,408,338; Feb. 28.
- Bowles, John H., New York, N. Y. Collapsible tire rim. No. 1,424,073; July 25.
- Bowles, Joseph L., Jr., Pittsburgh, Pa. Efficiency and educational chart. No. 1,419,809; June 13.
- Bowles, Myron E. (See Bowles, Byron E. and M. E.)
- Bowman, A. M. (See Sturm, E. J., and Surnson, assignors.)
- Bowman, Allan K., Wilkesburg, Pa. Phonograph. No. 1,436,790; Nov. 28.
- Bowman, Charles R., assignor of one-half to W. C. Staver, Butler, Mo. Ventilating window. No. 1,412,039; Apr. 11.
- Bowman, Charles T. (See Davis, G. H., and Bowman.)
- Bowman, Charles T. (See Davis, George H., assignor.)
- Bowman-Edson, M. K., Company. (See Bowman, Mark K., assignor.)
- Bowman, Edwin L., Gardner, Mass. Baby walker. No. 1,404,572; Jan. 24.
- Bowman, Elva, Fort Wayne, Ind. Chiropractic table. No. 1,429,709; Sept. 19.
- Bowman, Frank S. (See Kelly, Roy H., assignor.)
- Bowman, Frederick H., Manchester, and R. L. Aspden; said Bowman assignor of his entire right to R. E. Aspden, Chorley, England. Electrical equipment of motor vehicles and aircraft. No. 1,419,607; June 13.
- Bowman, Jack J., Portland, Oreg. Angle bar and nut lock. No. 1,423,394; July 18.
- Bowman, Mark K., assignor to M. K. Bowman-Edson Company, New York, N. Y. Cleaner for tubes of condensers, boilers, etc. No. 1,424,336; Aug. 1.
- Bowman, Newton K., Canton, Ohio. Trolley-wire splicer. No. 1,403,837; Jan. 17.
- Bowman, Newton K., North Lawrence, Ohio. Rail-bonding tool. No. 1,433,775; Oct. 31.
- Bowman, Robert L., Knoxville, Tenn. Vaporizing device for fuel oils. No. 1,416,938; May 23.
- Bowman, Robert L., Knoxville, Tenn. Blasting shell or sheet. No. 1,431,774; Oct. 10.
- Bowman, Wade W., Yonkers, N. Y., assignor to Continuous Cloth Towel Cabinet Co. Inc., of New York, N. Y. Bearing. No. 1,415,142; May 9.
- Bowman, Walter H., assignor to Goldsmith Bros. Smelting & Refining Co., Chicago, Ill. Container for mercury. No. 1,427,351; Aug. 29.
- Bowman, William B., assignor of one-half to G. Hoffman, Chicago, Ill. Clamp. No. 1,423,877; Sept. 12.
- Bown, David E., Crafton, Pa. Lamp socket. No. 1,421,122; June 27.
- Bown, Ralph, East Orange, N. J., assignor to American Telephone and Telegraph Company. Radiocircuits. No. 1,433,599; Oct. 31.
- Bowser, Augustus, deceased, Fort Wayne, Ind.; C. S. Fair and Colte H. Bolens, administrators. Air valve. No. 1,403,286; Jan. 10.
- Bowser, Percy L. (See Joynt, J., and Bowser.)
- Bowser, Percy L., St. Louis, Mo. Rotary compressor or rotary engine. No. 1,419,915; June 20.
- Bowser, S. F., and Company. (See Hinds, Sherwood, assignor.)
- Boxell, Augustus G., Los Angeles, Calif. Film-treatment cage. No. 1,424,873; Aug. 8.
- Boyce, Carol R., Wautoma, Wis. Automatic tool-dropping machine. No. 1,422,531; July 11.
- Boyce, Edward C., Washington, D. C. Vending apparatus. No. 1,424,074; July 25.
- Boyce, Edwin. (See Duckett, Eligah H., assignor.)
- Boyce, Harrison H., Forest Hills, N. Y. Cooling system. No. 1,406,922; Feb. 14.
- Boyce, Harrison H., Forest Hills, N. Y. Temperature-indicating instrument for automobile engines. No. 1,408,259; Feb. 28.
- Boyce, Harrison H., Forest Hills, N. Y. Fastening means for instrument glasses and the like. No. 1,430,721; Oct. 3.
- Boyce, Harrison H., Forest Hills, N. Y. Means for introducing temperature-responsive elements into engine-cooling systems. No. 1,431,212; Oct. 10.
- Boyce, William E., Albion, N. Y. Spraying nozzle. No. 1,432,958; Oct. 24.
- Boyce & Veeder. (See Louder, Earl A., assignor.)
- Boyd, Angus J., Dedham, Mass. Stop signal for automobiles. No. 1,412,160; Apr. 11.
- Boyd, Ernest, New York, N. Y. Hosiery. No. 1,434,941; Nov. 7.
- Boyd, Frank W., assignor of one-third to J. A. O'Connell, Spokane, Wash. Fuse plug. No. 1,416,602; May 16.
- Boyd, Fred C., New Haven, and A. J. Barnes, West Haven, assignors to The Faraday Co., New Haven, Conn. Thermostat switch. No. 1,439,399; Dec. 19.
- Boyd, James G., Jacksonville, Fla. Top for square hampers. No. 1,409,820; Mar. 14.
- Boyd, James S., Spray, N. C. Register. No. 1,422,024; July 4.
- Boyd, Walter C., Shepherdsville, Ky. Valve for radiators. No. 1,425,940; Aug. 15.
- Boyd, William. (See Steedman, Henry P. G., assignor.)
- Boyden, George A., assignor to G. A. Boyden, Jr., Baltimore, Md. Bond. No. 1,411,838; Apr. 4.
- Boyden, George A., Jr. (See Boyden, George A., assignor.)
- Boyden, George A., Jr., and John C. Baltimore, Md. Railway car truck. No. 1,414,497; May 2.
- Boyden, John C. (See Boyden, George A., Jr., and J. C.)
- Boyden Shoe Mfg. Co. (See Slavons, Charles, assignor.)
- Boye, James H., Chicago, Ill. Curtain fixture. No. 1,424,337; Aug. 1.
- Boye, James H., Chicago, Ill. Golf club. No. 1,437,463; Dec. 5.
- Boye Needle Company, The. (See Carlson, Gustav A., assignor.)
- Boye Needle Company, The. (See Flannery, John L., assignor.)
- Boyes, Ovilla W., Barre, Vt. Aeroplane. No. 1,435,204; Nov. 14.
- Boyer, Alexander B. (See White, H. S., and Boyer.)
- Boyer, Edwin S., Plainfield, N. J., assignor to American Hard Rubber Co., New York, N. Y. Battery jar and making same. No. 1,425,574; Aug. 15.
- Boyer, Fernand, Paris, France. Apparatus for preventing the lateral contraction of a fabric during weaving. No. 1,433,256; Oct. 24.
- Boyer, Fred S., Knightstown, Ind. Motor-vehicle spotlight. No. 1,426,250; Aug. 15.
- Boyer, Oliver, Spencerville, Ohio. Tractor wheel. No. 1,412,999; Apr. 18.
- Boyer, William E., assignor to S. D. Wright, Cleveland, Ohio. Door-handling mechanism. No. 1,417,714; May 30.
- Boyet, Oren K., Doucette, Tex. Bill file or article holder. No. 1,407,720; Feb. 28.
- Boyet, Oren K., Doucette, Tex. Article holder or stand. No. 1,407,721; Feb. 28.
- Boyet, Oren K., Doucette, Tex. Broom. No. 1,412,653; Apr. 11.
- Boyet, Oren K., Doucette, Tex. Match box. No. 1,412,671; Apr. 11.
- Boykin, Burwell, Jr., Beaumont, Tex. Traveling block. No. 1,424,075; July 25.
- Boykin, Burwell, Jr., Beaumont, Tex. Pulley block. No. 1,435,953; Nov. 21.
- Boykin, Christopher C., Norfolk, Va. Measuring cap for liquid-dispensing devices. No. 1,438,892; Dec. 12.
- Boykin, Herbert C. (See Ritchie, O. N., and Boykin.)

Alphabetical list of patentees—Continued.

- Boyle, Alfred S., Cincinnati, Ohio. Floor waxer and polisher. No. 1,406,721; Feb. 14.
- Boyle, Bernard. (See Brauston, William H., assignor.)
- Boyle, Edward M., Watertown, N. Y. Combination pneumatic locking and signaling apparatus. No. 1,418,226; May 30.
- Boyle, Elizabeth F. (See Ferris, Munez C., assignor.)
- Boyle, Homer L., Lansing, Mich. Aeroplane. No. 1,418,522; June 6.
- Boyle, James M., New York, N. Y. Method of and apparatus for arresting combustion. No. 1,402,711; Jan. 3.
- Boyle, John L., Boston, Mass. Combined talking and picture-exhibiting machine. No. 1,434,526; Nov. 7.
- Boyle, Louis M., Los Angeles, Calif. Camp stove. No. 1,421,393; July 4.
- Boyle, Louis M., Los Angeles, Calif. Luggage retainer. No. 1,432,154; Oct. 17.
- Boyle, Louis M., Los Angeles, Calif. Camp stove. No. 1,436,937; Nov. 28.
- Boyle, Peter J., Saginaw, Mich. Beet digger. No. 1,421,123; June 27.
- Boyle, Rudolph B., Kansas City, Mo. Automatic train-stopping device. No. 1,424,980; Aug. 8.
- Boyle, William, Philadelphia, Pa. Window stay. No. 1,434,732; Nov. 7.
- Boyle, Willis J., Sr., Los Angeles, Calif. Garbage or ash can. No. 1,402,830; Jan. 10.
- Boyer, Emanuel J., assignor to N. A. Kaletzky, New Haven, Conn. Powder puff. No. 1,406,439; Feb. 14.
- Boyles, David S., Rock Hill, S. C. Clothespin. No. 1,426,251; Aug. 15.
- Boyll, Robert, Terre Haute, Ind. Electric wax sealer. No. 1,406,526; Feb. 14.
- Boynton, Elsie M. (See Boynton, Harry L. and E. M.)
- Boynton, Harry L. and E. M., San Francisco, Calif. Spring sounder. No. 1,409,657; Mar. 14.
- Boynton, Stanley B., Rochester, N. Y., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Length-grading mechanism for copying lathes. No. 1,402,737; Jan. 10.
- Boynton, Vern K. (See Perry, R. S., Webster, and Boynton.)
- Boynton, Vern K., assignor to Perry & Webster, Inc., New York, N. Y. Fume-control device. No. 1,414,722; May 2.
- Boysen, Frank R. (See McCollum, Clarence R., assignor.)
- Boyls, Cecil H., Louisville, Ky. Shirt bosom and body machine. (Reissue.) No. 15,395; July 4.
- Bozard, Harrison B., Hamilton, Ontario, Canada, assignor, by mesne assignments, to International Harvester Company, Chicago, Ill. Hopper construction for grain drills. No. 1,404,510; Jan. 24.
- Bozard, Harrison B., Hamilton, Ontario, Canada, assignor, by mesne assignments, to International Harvester Company, Chicago, Ill. Double-disk scraper. No. 1,410,833; Mar. 28.
- Bozeman, Roger A. (See De Armond, Walter E., assignor.)
- Bozeman, Thomas L., Ferriday, La. Fore end for guns. No. 1,410,054; Mar. 21.
- Božić, Dobrovoje, Belgrade, Jugo-Slavia. Compressed-air continuous brake system for passenger or freight trains. No. 1,420,237; June 20.
- Bozung, Joseph A., Denver, Colo. Quick-locking cap for the air valves of automobile tires. No. 1,406,336; Feb. 14.
- Brabant, Charles C., Detroit, Mich. Window ventilator. No. 1,428,074; Sept. 5.
- Brabant, Lewis J., Milwaukee, Wis. Calendar. No. 1,430,212; Sept. 26.
- Brabant, William H., Sheboygan, Wis. Composition for preventing the accumulation of moisture on glass surfaces. No. 1,404,829; Jan. 31.
- Brabrook, Frank M., Elmira, N. Y. Fountain washing device. No. 1,424,874; Aug. 8.
- Brabson, Tom, Brooklyn, N. Y. Valve. No. 1,423,178; July 18.
- Brace, Henry P., assignor to Lee Trailer & Body Company, Chicago, Ill. Display stand. No. 1,415,782; May 9.
- Brace, James P., assignor of one-fourth to O. C. Short, Drumright, and one-fourth to A. N. Boatman, Okmulgee, Okla. Figure toy. No. 1,413,958; Apr. 25.
- Brace, Porter H., Wilkingsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Treating nonaqueous electrolytes. No. 1,415,983; May 16.
- Brach, Leon S., Newark, N. J. Thermometer. No. 1,403,228; Jan. 10.
- Brachhausen, Gustav A., assignor to The Regina Company, Rahway, N. J. Vacuum cleaner. No. 1,405,095; Jan. 31.
- Brackney, Emory P., et al. (See Burkhart, Francis, assignor.)
- Brackney, William S., Elizabethton, Tenn. Film holder. No. 1,422,029; July 4.
- Bracy, Furney F., Hallsboro, N. C. Vehicle spring. No. 1,408,858; Mar. 7.
- Bradburn, Charles F. (See Mercer, F. B. M., and Bradburn.)
- Bradbury, Burke, Schenectady, N. Y., assignor to General Electric Company. Signal-receiving system. No. 1,430,883; Oct. 3.
- Bradbury, Edward L. (See Ball, H. D., and Bradbury.)
- Braddock, Sarah E., Brooklyn, N. Y. Egg separator. No. 1,407,371; Feb. 21.
- Braddy, Lewis P., San Francisco, Calif. Identification tender for vehicles. No. 1,423,905; July 25.
- Braden, Charles H., Los Angeles, Calif. Airless tire. No. 1,436,146; Nov. 21.
- Braden, Charles H., assignor to National Airless Tire Company, Los Angeles, Calif. Airless tire. No. 1,423,074; July 18.
- Bradford, Charles B., Bakersfield, assignor to Critz Manufacturing Company, Santa Maria, Calif. Lubricator. No. 1,419,210; June 13.
- Bradford, Charles L., Salt Lake City, Utah. Well-drilling tool. No. 1,439,224; Dec. 19.
- Bradford, Charles M., Boston, and R. C. Simmons, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Shoe-shaping machine. No. 1,427,778; Sept. 5.
- Bradford, Eugene S., Jackson, Mich. Lathe or milling-machine attachment. No. 1,407,515; Feb. 21.
- Bradford, James S., Bedford, Ohio. Water valve for controlling flow of gases. No. 1,439,602; Dec. 19.
- Bradford, Thomas L., Detroit, Mich. Washing machine. No. 1,409,333; Mar. 14.
- Bradley, Alonzo B. (See Bradley, Walter E. F., and A. B.)
- Bradley, Arthur H., et al. (See Smith, James F., assignor.)
- Bradley, Arthur L., Council Bluffs, Iowa. Valve tester. No. 1,402,139; Jan. 3.
- Bradley, Charles, and T. E. Kennedy, Watonga, Okla. Railway metal-tie appliance. No. 1,434,586; Nov. 7.
- Bradley, Charles E., Montclair, N. J., and J. G. Coffin, Hempstead, N. Y., assignors to General Rubber Company. Process and apparatus for treating latex. No. 1,428,526; Sept. 12.
- Bradley, Charles W., assignor to Anchor Concrete Machinery Co., Rock Rapids, Iowa. Tamping machine. No. 1,431,364; Oct. 10.
- Bradley, Edward E., assignor to The Atwood Machine Company, Stonington, Conn. Spinning machine. No. 1,425,363; Aug. 8.
- Bradley, Edward E., assignor to The Atwood Machine Company, Stonington, Conn. Reeling machine. No. 1,431,563; Oct. 10.
- Bradley, Elmer E., Clinton, Iowa. Air nozzle for track Sanders. (Reissue.) No. 15,451; Sept. 12.
- Bradley, Francis E., et al. (See Samuels, Daniel B., assignor.)
- Bradley, Francis D., Goldfield, Nev. Grinding mill. No. 1,440,002; Dec. 26.
- Bradley, Fred J. (See Bradley, Richard C., assignor.)
- Bradley, Henry, Caulfield, near Melbourne, Victoria, Australia. Means for disinfecting sanitary pans and the like. No. 1,421,348; June 27.
- Bradley, James A., and E. L. Bortshoff, Kansas City, Mo. Marking tag. No. 1,438,629; Dec. 12.
- Bradley, John G., Topeka, Kans., and W. F. Metz, Buckner, Ill. Track-cleaning machine for mines. No. 1,406,527; Feb. 14.
- Bradley, John S., jr., assignor to C. Cowles & Co., New Haven, Conn. Loading pin-tumbler locks and tool therefor. No. 1,437,832; Dec. 5.
- Bradley Knitting Company. (See Johnson, Arthur W., assignor.)
- Bradley, Lewis H., Hartford, Conn. Front gun sight. No. 1,431,926; Oct. 17.
- Bradley, Linn, East Orange, N. J., assignor to Research Corporation, New York, N. Y. Mechanical rectifier. No. 1,430,619; Oct. 3.
- Bradley, Ralph A. (See McNally, J. F., and Bradley.)
- Bradley, Richard C., assignor of one-half to F. J. Bradley, Chicago, Ill. Counting wheel for intermittent-gear trains. No. 1,404,340; Jan. 24.
- Bradley, Ross E., Roland Park, Md. Method and means for tube cutting. No. 1,428,355; Sept. 5.
- Bradley, Stanley E., East Orange, N. J. Indicating device. No. 1,402,395; Jan. 3.
- Bradley, Walter E. F., New York, N. Y. Reduction of ores. No. 1,407,372; Feb. 21.
- Bradley, Walter E. F., Los Angeles, Calif. Furnace-flue closure. No. 1,411,157; Mar. 28.
- Bradley, Walter M., New Haven, Conn. Aerial spinning toy. No. 1,413,316; Apr. 18.
- Bradley, Walter E. F., New York, N. Y. Producing iron and steel. No. 1,422,733; July 11.
- Bradley, Walter E. F., Nyack, N. Y. Metallurgical process. No. 1,422,734; July 11.
- Bradley, Walter E. F., New York, N. Y. Magnetic separator. No. 1,425,235; Aug. 8.
- Bradley, Walter E. F., Piermont, N. Y. Production of carbon. No. 1,426,144; Aug. 15.
- Bradley, Walter E. F., Nyack, N. Y. Electric-furnace construction. No. 1,427,436; Aug. 29.
- Bradley, Walter E. F., Los Angeles, Calif., and A. B. Bradley, New York, N. Y. Electrical-furnace construction. No. 1,411,158; Mar. 28.
- Bradshaw, Charles D. (See Harness, C. D., and Bradshaw.)
- Bradshaw, Charles E., Waterbury, Conn. Buckle. No. 1,428,211; Sept. 5.
- Bradshaw, Charles E., Waterbury, assignor to Robert N. Bassett Company, Incorporated, Shelton, Conn. Buckle. No. 1,406,971; Feb. 21.

- Bradshaw, Frederic W., Perth, West Australia, Australia. Construction of reinforced concrete columns or posts. No. 1,417,445; May 23.
- Bradshaw, Granville, Sunbury-on-Thames, England. Cooling internal-combustion engine. No. 1,420,684; June 27.
- Bradshaw, Richard. (See Whittaker, J., Bradshaw, and Briggs.)
- Bradshaw, William M., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric measuring instrument. No. 1,408,071; Feb. 28.
- Bradt, Merritt B., Pennington, N. J., assignor to Peerless Insulated Wire & Cable Company, New York, N. Y. Wire-covering machine. No. 1,411,233; Mar. 28.
- Brady, Charles P. (See Hamilton, M. S., and Brady.)
- Brady Electric & Manufacturing Company, The. (See Rockwell, Herbert O., assignor.)
- Brady, George A., Philadelphia, Pa. Shoe tree. No. 1,402,712; Jan. 3.
- Brady, Huber R., Pittsburgh, Pa. Collapsible table. No. 1,432,959; Oct. 24.
- Brady, Hugh T., and D. A. Benway, Bay City, Mich. Front axle for motor vehicles. No. 1,438,214; Dec. 12.
- Brady, James A., Hoboken, N. J. Fastening hinge. No. 1,404,087; Jan. 17.
- Brady, James E., New York, N. Y. Stud. No. 1,425,507; Aug. 15.
- Brady, James M., Dubois, Pa. License holder. No. 1,436,854; Nov. 28.
- Brady, Joshua W., St. Paul, Minn. Loose-leaf holder. No. 1,439,139; Dec. 19.
- Brady, Joshua W., St. Paul, Minn. Loose-leaf holder. No. 1,439,140; Dec. 19.
- Brady, Mary A., New York, N. Y. Sink lining. No. 1,406,147; Feb. 7.
- Brady, Michael E., Traverse City, Mich. Sawmill carriage. No. 1,420,961; June 27.
- Brady, Thomas. (See Wyde, E., and Brady.)
- Brady, Thomas, Woodcliff, N. J. Door-operating device. No. 1,403,481; Jan. 17.
- Brady, Thomas, Bayonne, N. J. Conveyer apparatus. No. 1,435,048; Nov. 7.
- Bragdon, Frank H. (See Heron, J. C., Bragdon, and Clark.)
- Bragdon, Herbert J., Alton, Ill. Ammunition-shell-feeding machine. No. 1,408,497; Mar. 7.
- Bragg, Christopher C. (See Eskew, F. S. and C. E., and Bragg.)
- Bragg, Thomas A., assignor to The Owens Bottle Company, Toledo, Ohio. Mold-finishing machine. No. 1,439,354; Dec. 19.
- Bragg, Thomas A., assignor to The Owens Bottle Company, Toledo, Ohio. Glass mold. No. 1,439,355; Dec. 19.
- Bragger, John W. (See Marshall, C. P., and Bragger.)
- Braham, Joseph M. (See Clarkson, F., and Braham.)
- Braham, Joseph M. (See Hetherington, H. C., and Braham.)
- Brahler, Charles J. (See Gill, Herbert D., assignor.)
- Braine, Bancroft G., Montclair, N. J., assignor to The Rail Joint Company, New York, N. Y. Means for balancing stresses in rail joints. No. 1,406,528; Feb. 14.
- Brainerd, Arthur H., Lakewood, Ohio. Oil burner. No. 1,409,918; Mar. 21.
- Brainerd, Edward R., Los Angeles, Calif. Wall construction. No. 1,428,470; Sept. 5.
- Brakeman, Jesse C., Toronto, Ontario, Canada. Pressure-controlling device for pneumatic tires. No. 1,403,006; Jan. 10.
- Braley, Charles L., Chicago, Ill. Laundry drier. No. 1,431,213; Oct. 10.
- Braley, Charles L., Chicago, Ill. Laundry drier. No. 1,434,194; Oct. 31.
- Braley, Charles L., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Shirt-pressing machine. No. 1,403,838; Mar. 17.
- Braley, Charles L., Chicago, Ill., assignor to American Laundry Machinery Company, Cincinnati, Ohio. Ironing machine. No. 1,415,302; May 9.
- Braley, Charles L., Chicago, Ill., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Yoke-ironing machine. No. 1,415,303; May 9.
- Braley, Charles L., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Pressing shirts. No. 1,429,401; Sept. 19.
- Braley, Charles L., assignor of one-half to C. F. Noftzger, Chicago, Ill. Laundry drier. No. 1,434,193; Oct. 31.
- Braley, Wayne M. (See Mitton, R. E., and Braley.)
- Bramford Electric Company. (See Lewis, T. A., and Dunham, assignors.)
- Bramley-Moore, Swinfen. (See Bostock, F. J., and Bramley-Moore.)
- Brammer, Ernest, Victoria, British Columbia, Canada. Fireplace. No. 1,419,810; June 13.
- Bramming, Carl, Chicago, Ill., assignor to Accessories Manufacturing Company. Spotlight. No. 1,403,668; Jan. 17.
- Bran Products Company. (See Mininberg, Nathan, assignor.)
- Branch, Oscar. (See Smith, Edwin L., assignor.)
- Brand Brothers. (See Borgenicht, Esther, assignor.)
- Brand, Cleo H., et al. (See Montgomery, James P., assignor.)
- Brand, George P., New York, N. Y. Pedal-operated exhaust mechanism for automatic musical instruments. No. 1,420,238; June 20.
- Brand, George P., New York, N. Y. Tracking device for player pianos. No. 1,422,824; July 18.
- Brand, James J. C., Sydney, New South Wales, Australia. Apparatus for firing furnaces with powdered fuel. No. 1,432,317; Oct. 17.
- Brand, Robert H. (See Smith, J. H., Brand, and Leith.)
- Branden, Harry, Travers, Alberta, Canada. Grinding apparatus. No. 1,434,037; Oct. 31.
- Brandenberger, Heinrich, Vienna, Austria. Planing helical teeth more particularly for bevel gears. No. 1,436,938; Nov. 28.
- Brandenberger, Jaques E., assignor to La Societe La Cellophane, Paris, France. Sensitive cellulosic film and producing the same. No. 1,404,737; Jan. 31.
- Brandenberger, Jaques E., Bezons, assignor to la Sté Ame: "La Cellophane," Paris, France. Band of cellulosic material. No. 1,406,148; Feb. 7.
- Brandenburg, Francis C., Piqua, Ohio. Staggered tooth cutter for dressing abrasive elements. No. 1,423,075; July 18.
- Brandenburg, Napoleon B., Columbus, Ind. Rat trap. No. 1,404,088; Jan. 17.
- Brandenstein, M. J., & Co. (See Burns, Wilford E., assignor.)
- Brander, Gesner T., Calgary, Alberta, Canada. Fireplace. No. 1,434,083; Oct. 31.
- Brandon, Arthur H., assignor to Arthur H. Brandon & Company, Toledo, Ohio. Pipe-handling apparatus. No. 1,417,490; May 30.
- Brandon, Arthur H., assignor, by mesne assignments, to The Deep Well Engineering Company, Toledo, Ohio. Magnetic fishing tool for wells. No. 1,439,686; Dec. 26.
- Brandon, Arthur H., assignor, by mesne assignments, to The Deep Well Engineering Company, Toledo, Ohio. Fishing tool. No. 1,439,687; Dec. 26.
- Brandon, Arthur H., & Company. (See Brandon, Arthur H., assignor.)
- Brandon, Theodore C., Fallon, Nev. Power transmission. No. 1,418,517; June 7.
- Brandstetter, Josef, Chicago, Ill. Bottle corking and capping machine. No. 1,402,713; Jan. 3.
- Brandstetter, Josef, Chicago, Ill. Automatic stop for talking machines. No. 1,432,232; Oct. 17.
- Brandstetter, Josef, Rochester, Minn. Automatic stop for talking machines. No. 1,427,717; Aug. 29.
- Brandt, Andrew G., Scranton, Pa. Fastener for umbrella stretchers and ribs. No. 1,417,491; May 30.
- Brandt, Andrew G., Scranton, Pa. Umbrella runner. No. 1,434,942; Nov. 7.
- Brandt, Charles D., New York, N. Y. Pump stirrup. No. 1,408,859; Mar. 7.
- Brandt, Fokko, assignor to The Brandt & Krell Engineering Company, Kansas City, Kans. Steel scaffolding ladder. No. 1,437,088; Nov. 28.
- Brandt, Fokko, assignor to The Brandt & Krell Engineering Company, Kansas City, Kans. Pipe-stringer clamp. No. 1,437,089; Nov. 28.
- Brandt, Guy M., and L. V. Davis, South Bend, Ind. Cylinder grinding and reaming machine. No. 1,430,933; Oct. 3.
- Brandt, Harrison D., Philadelphia, Pa. Necktie press and holder. No. 1,435,694; Nov. 14.
- Brandt, Joseph M., Bellevue, Iowa. Tool. No. 1,417,492; May 30.
- Brandt, Lewis, Pittsburgh, Pa. House construction. No. 1,421,124; June 27.
- Brandt, Walter C., and J. A. Lewis, St. Paul, Minn. Key fastener. No. 1,410,527; Mar. 21.
- Brandt & Krell Engineering Company, The. (See Brandt, Fokko, assignor.)
- Brands, Theodor, Celina, Ohio. Typewriter cabinet. No. 1,432,663; Oct. 17.
- Brandvein, Jacob M., New York, N. Y. Educational toy. No. 1,414,857; May 2.
- Brandwood, John, T., and J. Elton, Bury, England. Dyeing and other treatment of textile fibers in the loose state. No. 1,432,318; Oct. 17.
- Brandwood, John, T., and J. Elton, Bury, England. Apparatus for the dyeing and other treatment of textile fibers in the loose state. No. 1,432,319; Oct. 17.
- Brandwood, Joseph. (See Brandwood, John, T., and J. Brandwood, Thomas. (See Brandwood, John, T., and J.)
- Branham, Hugh M., Brooklyn, N. Y. Depth gear for torpedoes. No. 1,423,179; July 18.
- Brann, Albert, East Orange, N. J., assignor to Westinghouse Lamp Company. Wire-drawing lubricant. No. 1,409,658; Mar. 14.
- Brann, Harry H., and G. H. Tenbrook, assignors to Haviside Company, San Francisco, Calif. Ladder. No. 1,430,281; Sept. 26.
- Brannan, John W., Grand Island, Nebr. Road drag or grading machine. No. 1,428,319; Sept. 5.
- Bransfield, Michael T., Chicago, Ill. Tire protector. No. 1,435,448; Nov. 14.
- Branson, Charles B., Lincoln, Nebr. Trolley stabilizer. No. 1,408,860; Mar. 7.
- Branson, Thomas, Philadelphia, Pa., assignor to Sibson & Stern, Inc. Reinforcing fabric for vehicle tires. No. 1,407,012; Feb. 21.
- Branstead, Charles J., Berkeley, Calif. Envelope. No. 1,412,335; Apr. 11.

Alphabetical list of patentees—Continued.

- Branson, Charles A., Company. (See Bailey, Walter H., assignor.)
- Branson, William H., Brooklyn, assignor of one-half to B. Boyle, Corona, N. Y. Chimney. No. 1,437,222; Nov. 28.
- Bransrator, Clement G., et al. (See Bayne, George G., assignor.)
- Bransrator, Clement G., assignor of one-fourth to J. C. Hoehnen, one-fourth to G. G. Bayne, and one-fourth to Bayne Manufacturing Company, Bushnell, Ill. Power transmission. No. 1,426,035; Aug. 15.
- Bransrator, Clement G., assignor of one-fourth to J. C. Hoehnen, one-fourth to G. G. Bayne, and one-fourth to Bayne Manufacturing Company, Bushnell, Ill. Radiator for internal-combustion engines. No. 1,434,195; Oct. 31.
- Brantley, Bessie, Topeka, Kans. Charcoal furnace. No. 1,427,055; Aug. 22.
- Brantley, Lewis R., Marietta, Ga. Planter. No. 1,428,527; Sept. 12.
- Brasher, William H., Toronto, Ontario, Canada. Garment support. No. 1,414,336; May 2.
- Brass, William J., Fenton, Iowa. Self-extinguishing lamp. No. 1,435,049; Nov. 7.
- Brassell, John H., Los Angeles, Calif. Wire looping and coiling tool. No. 1,413,453; Apr. 18.
- Brasseur, Ernest J., Chicago, Ill. Memorandum device. No. 1,431,283; Oct. 10.
- Bratcher, Ike, and O. Burghardt, Protection, Kans.; said Burghardt assignor to said Bratcher. Calif. feeder. No. 1,426,252; Aug. 18.
- Brater, August W., New York, N. Y. Siphon control device. No. 1,416,603; May 16.
- Bratland, Edward R., Chicago, Ill. Wrist blotter. No. 1,424,981; Aug. 8.
- Bratschie, Amiel, New Castle, Pa. Pruning shears. No. 1,425,744; Aug. 15.
- Bratteig, Gustav. (See Bratteig, Knut and G.)
- Bratteig, Knut and G., Marshalltown, Iowa. Hayrack. No. 1,418,774; June 6.
- Bratton, Delbert F., Johnsonville, Ill. Back connecting-rod wrench for Ford machines. No. 1,440,272; Dec. 26.
- Braucci, Andrew A., New York, N. Y. Safety guard for automobiles. No. 1,411,254; Apr. 4.
- Braucher, Edward F., Denver, Colo. Advertising disk for automobile wheels. No. 1,432,274; Oct. 17.
- Brauer, Adolph K., deceased; S. D. Brauer, executrix, assignor to S. D. Brauer, Los Angeles, Calif. Sprinkling nozzle. No. 1,430,620; Oct. 3.
- Brauer, Serena D., executrix. (See Brauer, Adolph K.)
- Braun, Albert. (See Braun, William P. and A.)
- Braun, Albert W., Platteville, Wis. Cheese mold. No. 1,430,934; Oct. 3.
- Braun, Bruce E. (See Muellerweiss, H. G., and Braun.)
- Braun, Carl P., San Francisco, Calif. Twin strainer. No. 1,428,270; Sept. 5.
- Braun, Charles, Brooklyn, N. Y. Flour sifter. No. 1,437,958; Dec. 5.
- Braun Company, The. (See Braun, William F. H., assignor.)
- Braun, Harry L., Toronto, Ontario, Canada. Waxer and polisher. No. 1,427,574; Aug. 29.
- Braun, William A., Dover, Ohio. Electric soldering iron. No. 1,407,722; Feb. 28.
- Braun, William F. H., assignor to The Braun Company, Philadelphia, Pa. Meat table for slicing machines. No. 1,402,140; Jan. 3.
- Braun, William F. H., assignor to The Braun Company, Philadelphia, Pa. Meat slicer. No. 1,418,063; May 30.
- Braun, William F. H., assignor to The Braun Company, Philadelphia, Pa. Sharpener for meat-slicing machines. No. 1,424,875; Aug. 8.
- Braun, William P. and A., Brooklyn, N. Y. Making brushes. No. 1,432,588; Oct. 17.
- Brauner, Ada A., Nampa, assignor of one-half to E. Carnefix, Meridian, Idaho. Drier and dishwasher. No. 1,405,394; Feb. 7.
- Braunger, Charles A., Elizabeth, N. J., assignor of one-half to J. H. Pruitt, Cissna Park, Ill. Manually-actuated action for firearms. No. 1,440,332; Dec. 26.
- Braunger, Charles A., Elizabeth, N. J., assignor of one-half to J. H. Pruitt, Cissna Park, Ill. Missile thrower. No. 1,440,333; Dec. 26.
- Braunger, Charles A., Elizabeth, N. J., assignor of one-half to J. H. Pruitt, Cissna Park, Ill. Ignition and propulsion tube. No. 1,440,334; Dec. 26.
- Bräuning, Karl A., Herstal, Belgium. Automatic firearm. No. 1,411,473; Apr. 4.
- Brautigam, Anthony F., assignor of one-half to A. M. Rudiger, Buffalo, N. Y. Carrier for bottles, etc. No. 1,424,076; July 25.
- Brautigam, Josef, assignor of one-half to J. Edwards, Brooklyn, N. Y. Automobile accelerator. No. 1,430,003; Sept. 26.
- Braxton, Elbert M., Fort Worth, assignor of one-half to M. R. Spellman, Dallas, Tex. Gas producer and process. No. 1,424,077; July 25.
- Bray, Charles T., Salt Lake City, Utah. Slag-brick machine. No. 1,420,018; June 20.
- Bray, M. William. (See Jagenburg, Robert W., assignor.)
- Bray, Oscar E., Buffalo, N. Y., assignor of one-half to G. C. Broadbooks, Attica, N. Y. Flanking for bridges, etc. No. 1,415,304; May 9.
- Braymen, George K., East Wenona, Ill. Combination gripper, perforating, and scoring attachment for printing presses. No. 1,431,148; Oct. 10.
- Braymer, William E., Kiefer, Okla. Swing. No. 1,406,529; Feb. 14.
- Brayshaw, Bertie, Fort Atkinson, assignor, by mesne assignments, to The General Tool & Manufacturing Company, Milwaukee, Wis. Sample taker. No. 1,429,710; Sept. 19.
- Brayton, Henry L., Owosso, Mich. Door-opening mechanism for elevators. No. 1,405,265; Jan. 31.
- Brazeau, Pierre, Racine, Wis. Locking rail for automobiles. No. 1,432,589; Oct. 17.
- Bre Manufacturing Company. (See Leslie, Freeland D., assignor.)
- Brechtling, Alfred. (See Warren, J. R., and Brechtling.)
- Breck, Ellis R., et al. (See Bodie, Albert B., assignor.)
- Breckenridge, David, Victoria, British Columbia, Canada. Thread-cutting tool and holder therefor. No. 1,428,075; Sept. 5.
- Bredeson, Gustave, assignor to Edwards and Powell Company, Chicago, Ill. Level. No. 1,426,454; Aug. 22.
- Bredice, Solideo, Waterbury, Conn. Antiskid attachment. No. 1,434,527; Nov. 7.
- Brediceanu, Calius. (See Vuia, Trajan, assignor.)
- Breed, Charles W., Western Springs, Ill. Railway crossing or frog and making the same. No. 1,412,161; Apr. 11.
- Breeding, Andrew J. (See Burke, P. W., and Breeding.)
- Breen, Albert R., Chicago, Ill., assignor to Universal Winding Company, Boston, Mass. Yarn-reclaiming device. No. 1,427,056; Aug. 22.
- Breen, John F., Hingham Center, Mass. Sliding hinged last. No. 1,407,723; Feb. 28.
- Breen, Joseph, Ambridge, Pa. Pusher for tin pots. No. 1,439,860; Dec. 26.
- Breese, Sydney S. (See Bell, A. G., Baldwin, and Breese.)
- Breeze, Alfred B., assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio. Oiling device for reach rods. No. 1,415,000; May 2.
- Bregent Corporation of America. (See Runge, W., and Curtis, assignors.)
- Bregman, Harry, assignor to The Steel Stamping Company, Lorain, Ohio. Toy pistol. No. 1,436,855; Nov. 28.
- Bregman, Morris, Leeds, England. Apparel apparatus. No. 1,440,335; Dec. 26.
- Breguet, Louis, Velizy-Villacoublay, assignor to Société Anonyme des Ateliers D'Aviation Louis Bréguet, Paris, France. Aircraft. No. 1,429,484; Sept. 19.
- Brehm, Charles M., Dayton, Ohio. Forming machine. No. 1,420,468; June 20.
- Brehm, Charles M., Dayton, Ohio. Trimming machine. No. 1,420,469; June 20.
- Brehmer, Carl F., Philadelphia, Pa. Trick fan. No. 1,407,836; Feb. 28.
- Brehmer, Herman C., Philadelphia, Pa., assignor to H. W. Butterworth and Son's Company. Valve device. No. 1,423,988; July 25.
- Brehmer, Herman C., Philadelphia, Pa., assignor to H. W. Butterworth & Son's Co. Atomizer. No. 1,423,989; July 25.
- Brehmer, William G. H., assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Bearing and making same. No. 1,422,655; July 11.
- Breider, George C., assignor to Auto Utilities Manufacturing Company, Chicago, Ill. Ventilator. No. 1,435,913; Nov. 21.
- Breiel, Charles, assignor of one-half to T. R. Ferguson, Xenia, Ohio. Funnel. No. 1,405,266; Jan. 31.
- Breining, Herman A. (See Bohn, G., and Breining.)
- Breit, Martin M., assignor of one-half to Light Publishing Company, San Antonio, Tex. Machine for making ornamental rules and borders. No. 1,422,532; July 11.
- Breitenstein, Albert F., assignor to The Geometric Tool Co., New Haven, Conn. Adjustable tap. No. 1,435,695; Nov. 14.
- Breitman, Joseph J., and E. M. Jordan, Newark, N. J. Phonograph-record cabinet. No. 1,403,482; Jan. 17.
- Breitrner, Melchior, Halle-on-the-Saale, Germany. Distributing board for electric house installations. No. 1,427,779; Sept. 5.
- Breisford, William E., Mendota, Ill. Antiskid device. No. 1,412,040; Apr. 11.
- Bremberg, Axel, Glasgow, Scotland. Mechanism for transmitting hand and motor power. No. 1,409,821; Mar. 14.
- Bremer, Alvin L. (See Bremer, Martin L. and A. L.)
- Bremer, Henry R., Kansas City, Mo. Metal-flanging machine. No. 1,426,253; Aug. 15.
- Bremer, Martin L. and A. L., Elberon, Iowa. Bin-filling shut-off. No. 1,423,990; July 25.
- Bremer, Russell H., Reading, Pa., assignor of one-third to G. H. Rice, Arlington, Vt. Refrigerator. No. 1,408,260; Feb. 28.
- Bremner, George D., Brooklyn, N. Y., and E. E. Troutman, Ashland, Pa. Mail-bag-delivery apparatus. No. 1,418,064; May 30.
- Brendza, Steven, Cleveland, Ohio. Corner brace for window screens. No. 1,419,608; June 13.
- Brenizer, George W., and C. C. Hutson, Richmond, Ind. Printing process ink. No. 1,436,856; Nov. 28.
- Brenizer, Orson W. (See Wandless, Franklin W., assignor.)

Alphabetical list of patentees—Continued.

- Brenkert, Joseph W., San Diego, Calif. Vehicle signal apparatus. No. 1,413,959; Apr. 25.
- Brenkert, Joseph W., and K. S. Brenkert, Detroit, Mich. Picture-projecting machine. No. 1,427,575; Aug. 29.
- Brenkert, Karl S. (See Brenkert, Joseph W. and K. S.)
- Brennan, Edward J., Chicago, Ill. Conveyor belt. No. 1,428,878; Sept. 12.
- Brennan, James, New Orleans, La. Banana unloader. No. 1,422,656; July 11.
- Brennan, John A., New York, N. Y. Resilient vehicle wheel. No. 1,405,395; Feb. 7.
- Brennan, John S., Milwaukee, Wis. Fabric for oil wicks. No. 1,403,229; Jan. 10.
- Brennan, John S., Milwaukee, Wis. Burner-lifting means. No. 1,422,079; July 11.
- Brennan, John S., Milwaukee, Wis. Burner. No. 1,424,149; Aug. 1.
- Brennan, John S., Milwaukee, Wis. Burner drum. No. 1,428,212; Sept. 5.
- Brennan, Joseph B., Lexington, Mass. Machine for and making cord tire stock. No. 1,418,906; June 6.
- Brennan, Maurice W., et al. (See Taylor, Frank M., assignor.)
- Brennan, Thomas C., et al. (See Taylor, Frank M., assignor.)
- Brennan, William J., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for beveling edges of buttonholes. No. 1,427,780; Sept. 5.
- Brennan, William J., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Press. No. 1,429,221; Sept. 19.
- Brenne, Arild M., assignor to W. H. Miner, Chazy, N. Y. Center bearing for cars. No. 1,431,284; Oct. 10.
- Brenne, Carl F., Yakima, assignor to Universal Index Tab Company, Seattle, Wash. Index tab. No. 1,424,338; Aug. 1.
- Brenneis Manufacturing Company. (See Ward, C. E., and Harris, assignors.)
- Brenneis Manufacturing Company. (See Ward, Clayton E., assignor.)
- Brenneisen, Max, Berne, Switzerland. Dust-sucking apparatus for automobiles. No. 1,406,530; Feb. 14.
- Brenner, Louis, New York, N. Y. Lady's apparel. No. 1,421,062; June 27.
- Brenner, William C., Evansville, Ind. Grain-polishing device. No. 1,408,978; Mar. 7.
- Brenzinger, Julius, Fairfield, Conn., assignor to The Max Ams Machine Company, New York, N. Y. Side-seam soldering machine for can bodies. No. 1,419,211; June 13.
- Brenzinger, Julius, Fairfield, Conn., assignor to The Max Ams Machine Company, New York, N. Y. Can-body-forming machine. No. 1,427,896; Sept. 5.
- Brereton, Page M., Denver, Colo. Dust collector for internal-combustion engines. No. 1,411,606; Apr. 4.
- Bresin, Louis, assignor to Adams-Williams Manufacturing Corporation, New York, N. Y. Convertible automobile body construction. No. 1,413,704; Apr. 25.
- Bressler, Robert E., Hammond, assignor to O. F. Jordan Company, East Chicago, Ind. Railway spreader. No. 1,437,393; Dec. 5.
- Bretagne, Alcide, Boston, Mass. Radiator. No. 1,406,256; Feb. 14.
- Breton, Henri and R., Paris, France. Underground automotive engine. No. 1,408,720; Mar. 7.
- Breton, René. (See Breton, Henri and R.)
- Bretos y Claveria, Manuel, Santiago de Cuba, Cuba. Folding door and shutter. No. 1,405,758; Feb. 7.
- Bretos y Claveria, Manuel, Santiago de Cuba, Cuba. Folding door and shutter. No. 1,408,076; Feb. 28.
- Bretos y Claveria, Manuel, Santiago, Cuba. Shutter applicable to all kinds of folding doors. No. 1,413,895; Apr. 25.
- Bretschneider, Max R., Plauen, Germany. Fabric frame for several-needle embroidering machines. No. 1,430,152; Sept. 26.
- Brett, John H., Hartford, Conn. Sounding toy. No. 1,440,053; Dec. 26.
- Brettell, Hattie S., Denver, Colo. Vehicle direction signal. No. 1,403,381; Jan. 10.
- Brettschneider, Josephine, St. Paul, Minn. Flower receptacle. No. 1,423,906; July 25.
- Breuer, Jacob, Marion, Va. Power belt. No. 1,420,962; June 27.
- Breuer, Peter, assignor of one-half to A. A. Jenss, Milwaukee, Wis. Paper-drying machine. No. 1,427,437; Aug. 29.
- Breuer, Vladimir, New York, N. Y. Radiator for motor vehicles. No. 1,403,586; Jan. 17.
- Breuer, Walter A., St. Louis, Mo. Toy. No. 1,434,364; Nov. 7.
- Breuker & Kessler Company. (See Delaplaine, Aubrey C., assignor.)
- Breuker & Kessler Company. (See Kessler, Harry C., assignor.)
- Brevard, Procter, Highland Park, Mich. Lubricating system for explosive engines. No. 1,405,396; Feb. 7.
- Brewer, Basil, Cleveland, Ohio. Printing press. No. 1,409,659; Mar. 14.
- Brewer, Charles A. (See Knight, H., and Brewer.)
- Brewer, George B., San Pedro, Calif. Signal machine. No. 1,430,489; Sept. 26.
- Brewer, Gipp M., Sylvia, Kans. Automatic timer for automobiles. No. 1,434,196; Oct. 31.
- Brewer, Glenn A., Kansas City, Mo. Automatic speed-signaling device. No. 1,437,714; Dec. 5.
- Brewer, Johnson, Rice, Tex. Flour sifter. No. 1,429,565; Sept. 19.
- Brezin, Joseph, et al. (See Berzon, L., and Brezin, assignors.)
- Brewer, Joseph, New York, N. Y. Micrometer. No. 1,432,664; Oct. 17.
- Brewer, Joseph H. (See Brewer, Mary G. and J. H.)
- Brewer, Mary G. and J. H., Poydras, La. Sanitary toilet-seat cover and pad of toilet paper. No. 1,419,212; June 13.
- Brewer, Moultrie A., St. Louis, Mo. Figure toy. No. 1,403,382; Jan. 10.
- Brewer, Robert W. A., Stockton, Calif. Intake manifold for internal-combustion engines. No. 1,439,940; Dec. 26.
- Brewer & Company. (See Davis, Lewis, assignor.)
- Brewerton, Arthur E., Wandsworth Common, London, England, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Apparatus for indicating and recording the direction and distance of travel of vehicles. No. 1,415,624; May 9.
- Brewington, Henry S., Baltimore, Md. Hair curler. No. 1,407,981; Feb. 28.
- Brewington, Henry S., Baltimore, Md. Paper container. No. 1,425,168; Aug. 8.
- Brewington, Henry S., Baltimore, Md. Paper container. No. 1,425,169; Aug. 8.
- Brewster, Burt B., Salt Lake, Utah, assignor to Sullivan Machinery Company. Standard for rock drills. No. 1,439,679; Dec. 19.
- Brewster, Charles W., assignor to Brewster Train Control Co., Inc., New York, N. Y. Track circuit for train-control systems. No. 1,425,315; Aug. 8.
- Brewster, Ernest B., New York, N. Y. Method and means for coloring paper. No. 1,407,247; Feb. 21.
- Brewster, Guy S., Seattle, Wash. Lock for milk-can tops. No. 1,420,811; June 27.
- Brewster Patents Corporation. (See Brewster, Percy D., assignor.)
- Brewster, Percy D., East Orange, N. J., assignor, by mesne assignments, to Brewster Patents Corporation, New York, N. Y. Differential development of color cinematographic films. No. 1,410,884; Mar. 28.
- Brewster, Rouse K., Kingston, N. Y., assignor, by mesne assignments, to Hercules Explosives Corporation, Wilmington, Del. Pocket magneto. No. 1,437,223; Nov. 28.
- Brewster Train Control Co. (See Brewster, Charles W., assignor.)
- Brewster, William P., assignor of one-half to B. A. Wilkes, St. Louis, Mo. Timing and ignition system. No. 1,439,537; Dec. 19.
- Breyer, Frank G. (See Singmaster, J. A., and Breyer.)
- Breyer, Frank G. (See Singmaster, J. A., Breyer, and Farber.)
- Breyer, Frank G., P. R. Croll, Palmerton, and C. W. Farber, Bowmanstown, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Manufacture of lithopone. No. 1,411,645; Apr. 4.
- Brezin, Joseph, assignor of one-third to himself, one-third to L. Berzon, and one-third to W. Kosakoff, Philadelphia, Pa. Bag-frame lock. No. 1,439,688; Dec. 26.
- Brian, James C., Minneapolis, Minn. Portable track. No. 1,410,055; Mar. 21.
- Briare, Frank B. (See Thurston, Julius T., assignor.)
- Brice, Arthur W., Rochester, N. Y., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Rheostat. No. 1,406,257; Feb. 14.
- Brice, John F., Bensalem Township, Bucks County, Pa. Plane for aircraft. No. 1,406,923; Feb. 14.
- Brichetto, Louis, Cincinnati, Ohio. Burglar alarm. No. 1,419,954; June 20.
- Bricka, Frédéric, Milan, Italy. Textile-fiber-combing machine. No. 1,408,438; Mar. 7.
- Brickell, William S., Buffalo, N. Y. Wheel. No. 1,426,254; Aug. 15.
- Bricken, John, Chicago, Ill. Method of supplying a magazine with blanks. No. 1,456,644; Nov. 28.
- Bricker, John W., administrator. (See Hanner, Thomas.)
- Brickman, Emil O., Chicago, Ill., assignor to Illinois Meat Company. Prepared meats. No. 1,427,438; Aug. 29.
- Briconnier, Zepher J., assignor of one-half to M. Cohn, San Francisco, Calif. Blotter attachment for fountain pens. No. 1,418,696; June 6.
- Bridell, Charles D., Crisfield, Md. Tongs. No. 1,415,143; May 9.
- Briden, Charles G., assignor of one-half to H. Laughlin, Jr., Los Angeles, Calif. Demountable tire rim. No. 1,416,939; May 23.
- Briden, Charles G., assignor of one-half to H. Laughlin, Jr., Los Angeles, Calif. Demountable tire rim. No. 1,416,940; May 23.
- Bridge, Arthur, Washington, D. C. Method of and apparatus for reducing metals, etc. No. 1,415,516; May 9.
- Bridge, Arthur F., Los Angeles, Calif. Pressure-gas holder. No. 1,426,145; Aug. 15.
- Bridge, George A., Englewood, Colo. Differential power-transmission gearing for automotive vehicles. No. 1,437,715; Dec. 5.
- Bridgeport Brass Company. (See Limont, Alexander W., assignor.)

Alphabetical list of patentees—Continued.

- Bridgeport Metal Goods Manufacturing Company, The. (See Ferris, Isaac L., assignor.)
- Bridgeport Metal Goods Manufacturing Company. (See Loveman, William R., assignor.)
- Bridges, Josiah S., Wilmette, Ill. Means for adjusting and securing artificial crowns and teeth in their operative position. No. 1,412,268; Apr. 11.
- Bridges, Lewis B., New York, assignor to Corona Typewriter Company, Inc., Groton, N. Y. Folding typewriting machine. No. 1,434,733; Nov. 7.
- Bridges, Lewis B., Brooklyn, assignor to Corona Typewriter Company, Inc., Groton, N. Y. Folding typewriting machine. No. 1,434,734; Nov. 7.
- Bridgewater Machine Company. (See Mason, Freeman D., assignor.)
- Bridgford, Archie G., and S. B. Bolton, Aledo, Ill.; said Bolton assignor to said Bridgford. Manifold aero heater. No. 1,427,057; Aug. 22.
- Bridgford, Archie G., and S. B. Bolton, Aledo, Ill.; said Bolton assignor to said Bridgford. Manifold heater for internal-combustion engines. No. 1,427,058; Aug. 22.
- Bridgford, Archie G., and S. B. Bolton, Aledo, Ill.; said Bolton assignor to said Bridgford. Manifold heater for internal-combustion engines. No. 1,427,059; Aug. 22.
- Bridgman, Barton C., San Francisco, Calif. Card holder. No. 1,430,282; Sept. 26.
- Brien, John A. (See Casterline, E. D., and Brien.)
- Brière, Charles. (See Gendron, A., and Brière.)
- Briery, George E., Detroit, Mich. Washing machine. No. 1,420,963; June 27.
- Bridgen, Arthur, Birmingham, Ala. Insect catcher. No. 1,414,068; Apr. 25.
- Bridgen, Arthur, Birmingham, Ala. Insect catcher. No. 1,414,069; Apr. 25.
- Brigel, Leo A., Cheviot, Ohio. Bottle-capping apparatus. No. 1,430,283; Sept. 26.
- Briggs, Arle B., Denver, Colo. Fountain brush. No. 1,413,827; Apr. 25.
- Briggs, D. F., Company, The. (See Slaiger, Henry, assignor.)
- Briggs, Frank A. (See Pierce, Harry, assignor.)
- Briggs, George F., Beaumont, Tex. Combined guard cage and robber trap. No. 1,430,788; Oct. 3.
- Briggs, Henry, Hasbrouck Heights, N. J. Guide or gauge for reciprocating hand tools. No. 1,406,924; Feb. 14.
- Briggs, Howland F., Buffalo, N. Y. Lock for spare-tire rims. No. 1,438,574; Dec. 12.
- Briggs, Isabelle M., executrix. (See Briggs, Thomas L.)
- Briggs, John F., Spondon, near Derby, England, assignor to American Cellulose and Chemical Manufacturing Company Limited. Treatment of cellulose acetate products. No. 1,425,364; Aug. 8.
- Briggs, Joseph. (See Whittaker, J., Bradshaw, and Briggs.)
- Briggs, Lyman J. (See Hayford, J. F., and Briggs.)
- Briggs, Mallison, administratrix. (See Whittaker, J., Bradshaw, and Briggs.)
- Briggs, Robert, Salida, Colo. Antiskid chain. No. 1,429,674; Sept. 19.
- Briggs, Stephen F., and E. N. Jacobi, assignors to Briggs & Stratton Company, Milwaukee, Wis. Polarity-reversing switch. No. 1,408,687; Mar. 7.
- Briggs, Stephen F., and E. N. Jacobi, assignors to Briggs & Stratton Company, Milwaukee, Wis. Steering-column control unit. No. 1,425,170; Aug. 8.
- Briggs, Stephen F., and E. N. Jacobi, assignors to Briggs & Stratton Company, Milwaukee, Wis. Push-lock switch. No. 1,434,769; Nov. 7.
- Briggs, Stephen F. and E. N. Jacobi, assignors to Briggs & Stratton Company, Milwaukee, Wis. Locking switch. No. 1,437,716; Dec. 5.
- Briggs, Thomas L., deceased, by I. M. Briggs, Flushing, executrix, assignor to General Chemical Company, New York, N. Y. Making chlorosulphonic acid. No. 1,422,335; July 11.
- Briggs, Thomas L., Flushing, assignor to General Chemical Company, New York, N. Y. Cleaning contact material. No. 1,429,222; Sept. 19.
- Briggs, William A., Philadelphia, Pa. Enamel. No. 1,409,919; Mar. 21.
- Briggs, William C., Elizabeth, N. J. Hoist. No. 1,432,741; Oct. 24.
- Briggs & Stratton Company. (See Briggs, S. F., and Jacobi, assignors.)
- Briggs & Stratton Company. (See Jacobi, Edward N., assignor.)
- Briggs & Stratton Company. (See Soreng, Edgar M., assignor.)
- Brigham, Harry L., Brockton, Mass. Pneumatic sheet feeder. No. 1,435,205; Nov. 14.
- Brigham, Nelson E. (See Fleming, W. M., and Brigham.)
- Brigham, Nelson E., Holyoke, assignor to Conoid Candy Machine Company, South Hadley Falls, Mass. Manufacture of confections of the coated type. No. 1,417,446; May 23.
- Bright, Claude H., Jr., Memphis, Tenn. Bookkeeping machine. No. 1,411,679; Apr. 4.
- Bright, Fred E., New York, N. Y. Chuck. No. 1,420,682; June 27.
- Bright, Fred E., New York, N. Y. Apparatus for machining work pieces. No. 1,420,683; June 27.
- Bright, George M., Beggs, Okla. Beverage dispenser. No. 1,430,935; Oct. 3.
- Bright, Robert E., Chicago, Ill., assignor to Stein-Hall Manufacturing Company. Starch conversion products. No. 1,411,203; Mar. 28.
- Bright, Robert E., assignor to Stein-Hall Manufacturing Company, Chicago, Ill. Preparing starch conversion products. No. 1,411,204; Mar. 28.
- Brightman, G. F., et al. (See Brightman, Harrison M., assignor.)
- Brightman, H. L., et al. (See Brightman, Harrison M., assignor.)
- Brightman, Harrison M., assignor of one-fourth to G. F. Brightman, one-fourth to H. L. Brightman, and one-fourth to J. H. Brightman, Columbus, Ohio. Apparatus for finishing cylindrical bars and shaftings. No. 1,411,474; Apr. 4.
- Brightman, J. H., et al. (See Brightman, Harrison M., assignor.)
- Brignole, John J., and J. Lovari, New York, N. Y. Safety fender. No. 1,432,380; Oct. 17.
- Brilhart, Samuel B., New York, N. Y. Car truck. No. 1,408,167; Feb. 28.
- Brilhart, Samuel B., New York, N. Y. Car truck. No. 1,417,135; May 23.
- Brill, J. G., Company, The. (See Berry, H. C., and Applegate, assignors.)
- Brill, J. G., Company, The. (See Brooks, James A., assignor.)
- Brill, Max, New York, N. Y. Hand bag. No. 1,415,305; May 9.
- Brill, Paul, Jackson, Mich. Paper-hanging machine. No. 1,435,449; Nov. 14.
- Brillhart, Walter K., Dallastown, Pa. Bolt clamp. No. 1,420,519; June 20.
- Brilliant, Mark L., San Francisco, Calif. Davenport bed. No. 1,404,508; Jan. 24.
- Brillouin, Léon N., Paris, France. Telephone and wireless telegraphy installation. No. 1,404,574; Jan. 24.
- Brillouin, Léon N., Paris, and G. A. Beauvais, Lyon, France. Telephone installation in wireless telegraphy. No. 1,404,573; Jan. 24.
- Brillouin, Léon N., Paris, and G. A. Beauvais, Caluire, Lyon, France. Telephone and wireless-telegraphy installation. No. 1,405,267; Jan. 31.
- Brilstra, Cornelis J., Brooklyn, N. Y. Amusement ride. No. 1,431,564; Oct. 10.
- Brindamour, John B., assignor of one-half to M. A. Rush, San Francisco, Calif. Automobile steering-wheel lock. No. 1,437,717; Dec. 5.
- Brindle, Richard G., and A. H. Flint, Chicago, Ill., assignors to Corn Products Refining Company. Method of and apparatus for evaporating liquid or semiliquid substances. No. 1,415,783; May 9.
- Brinegar, James F., Middlesboro, Ky. Bracket. No. 1,405,268; Jan. 31.
- Brink, Carl A. (See Adell, E., and Brink.)
- Brinker, Jesse E., and C. P. McNeil, assignors to Standard Oil Company, Whiting, Ind. Ornamented candle. No. 1,428,940; Sept. 12.
- Brinkerhoff, Howard C., Allston, Mass. Antirattling device for automobiles. No. 1,420,077; June 20.
- Brinkman, Louis H., Glenridge, N. J. Bending pipes or tubes. No. 1,429,924; Sept. 26.
- Brinkman, Louis H., Glen Ridge, N. J., assignor to Titeflex Metal Hose Corporation. Method of and apparatus for forming flexible tubes. No. 1,410,160; Mar. 21.
- Brinkman, Louis H., Glen Ridge, assignor, by mesne assignments, to General Seamless Tube Company, Bloomfield, N. J. Metal-drawing apparatus. No. 1,414,500; May 2.
- Brinkman, Louis H., Glenridge, assignor, by mesne assignments, to General Seamless Tube Company, Bloomfield, N. J. Tube and rod tapering. No. 1,418,697; June 6.
- Brinkman, Paul, Portland, Oreg. Phonograph mute. No. 1,412,672; Apr. 11.
- Brintnall, Thomas M., assignor of one-fourth to J. F. Hanly, one-fourth to C. H. Hanly, and one-fourth to R. E. Hanly, Oakland, Calif. Demountable rim. No. 1,402,141; Jan. 3.
- Brintnall, Thomas M., assignor of one-fourth to J. F. Hanly, one-fourth to C. H. Hanly, and one-fourth to R. E. Hanly, Oakland, Calif. Demountable rim. No. 1,402,142; Jan. 3.
- Brinton, William C., Jr., assignor, by mesne assignments, to Philbrin Corporation, Kennett Square, Pa. Means for increasing the dielectric strength of condensers. No. 1,414,619; May 2.
- Brinton, William C., Jr., assignor, by mesne assignments, to Philbrin Corporation, Kennett Square, Pa. Ignition system for internal-combustion engines. No. 1,431,927; Oct. 17.
- Brisben, George R., Cleveland, Ohio. Emery-wheel-dressing tool. No. 1,425,941; Aug. 15.
- Brisbine, Raymond G., Dormont, Pa. Flour sack and like article. No. 1,403,287; Jan. 10.
- Brisbois, Odilon, Gary Ind. Electric starter. No. 1,426,274; Aug. 15.
- Brisbois, Odilon, Chicago, Ill. Starter for internal-combustion engines. No. 1,435,101; Nov. 7.

Alphabetical list of patentees—Continued.

- Briscoe, Benjamin, et al., trustees. (See Ramage, Alexander S., assignor.)
- Briscoe Devices Corporation. (See Briscoe, Frank, assignor.)
- Briscoe, Frank, assignor to Briscoe Devices Corporation, Pontiac, Mich. Carburetor. No. 1,408,072; Feb. 28.
- Bristol Company, The. (See Bristol, W. H., and Johnson, assignors.)
- Bristol Company, The. (See Johnson, Manfred J., assignor.)
- Bristol, Edgar H., assignor to The Foxboro Company, Foxboro, Mass. Control system. No. 1,405,181; Jan. 31.
- Bristol, Tom R., Atlanta, Ga., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake device. No. 1,403,839; Jan. 17.
- Bristol, William H., Waterbury, Conn. Measuring instrument. No. 1,431,626; Oct. 10.
- Bristol, William H., Waterbury, Conn. Synchronized motion-picture apparatus. No. 1,431,628; Oct. 10.
- Bristol, William H., Waterbury, and M. J. Johnson, Naugatuck, assignors to The Bristol Company, Waterbury, Conn. Remote-control system. No. 1,431,627; Oct. 10.
- Britcher, Charles W., Springfield, Mass., assignor to The Babcock Printing Press Manufacturing Company, New London, Conn. Preparing cutting and scoring matrices for printing presses. No. 1,416,682; May 25.
- Britcher, Edward R., York, Pa. Rail joint. No. 1,410,364; Mar. 21.
- British Alizarine Company Limited, The. (See Atack, F. W., and Anderson, assignors.)
- British Alizarine Company Limited, The. (See Atack, Frederick W., assignor.)
- British Westinghouse Electric and Manufacturing Company Limited, The. (See Baumann, Karl, assignor.)
- British Westinghouse Electric and Manufacturing Company Limited, The. (See Scanes, Arthur E. L., assignor.)
- Brittain, Charles A., St. Louis, Mo. Ruled sheet. No. 1,429,485; Sept. 19.
- Brittain, George M. (See Brown, W. P., and Brittain.)
- Brittain, George M. (See Brown, W. P., Errett, and Brittain.)
- Brittain, Isaac M., assignor of one-half to G. W. Allan, Denver, Colo. Railway safety switch. No. 1,417,297; May 23.
- Brittall, Byron B., Willow Springs, Mo. Seat for engineers in locomotive cabs. No. 1,403,483; Jan. 17.
- Britten, William M., assignor of one-half to C. Harshman, Los Angeles, Calif. Gas burner. No. 1,406,925; Feb. 14.
- Brittenburg, Harry E., South Allentown, Pa. Car re-railer. No. 1,409,920; Mar. 21.
- Britton, Helen S., Castleton Hill, N. Y. Kitchen utensil. No. 1,427,439; Aug. 29.
- Britton, Thomas E., Cedar Falls, Iowa. Combination truck and wagon dump. No. 1,420,078; June 20.
- Brix, Harold, Arlington Heights, assignor to Sharp & Smith, Chicago, Ill. Anastomosis clamp. No. 1,413,896; Apr. 25.
- Broadbooks, George C. (See Bray, Oscar E., assignor.)
- Broadbridge, Walter E. B. and W. G. Sellers, London, England, assignors to Minerals Separation North American Corporation, New York, N. Y. Purification or extraction of soluble substances. No. 1,439,061; Dec. 19.
- Broadhurst, Herbert F., London, England. Means for filling bottles. No. 1,413,960; Apr. 25.
- Broadley, Joseph, Fair Oaks, Calif. Apparatus for handling eggs. No. 1,434,587; Nov. 7.
- Broadley, Joseph R., London, England. Apparatus for grinding, classifying, and decanting ores. No. 1,418,523; June 6.
- Broadley, Joseph R., and J. M. Lee, assignors of one-third to L. S. Burt, London, England. Pump. No. 1,435,513; Nov. 14.
- Broadmeyer, Albert, assignor to W. O. Hickok Manufacturing Company, Harrisburg, Pa. Ruling apparatus. No. 1,404,738; Jan. 31.
- Broadmeyer, Albert, assignor to W. O. Hickok Manufacturing Company, Harrisburg, Pa. Change-speed gearing. No. 1,404,739; Jan. 31.
- Broadmeyer, Albert, assignor to W. O. Hickok Manufacturing Company, Harrisburg, Pa. Sheet-feeding apparatus. No. 1,408,688; Mar. 7.
- Broadwater, David B., Millville, assignor of one-twentieth to W. K. Pierce, Bridgeton, N. J. Noncollapsible nipple. No. 1,401,958; Jan. 3.
- Broadway, William, and T. C. Pledger, Oklahoma, Okla.; said Broadway assignor to said Pledger. Rim fastener. No. 1,424,078; July 25.
- Broady, Harry W., Bay-side, N. Y., assignor to American Balsa Company, Inc. Life raft. No. 1,422,657; July 11.
- Broath, George N., Moose Jaw, Saskatchewan, Canada. Pipe. No. 1,427,781; Sept. 5.
- Broberg, Isidor. (See Ljungström, F., and Broberg.)
- Brobst, William E., Jr., Noblesville, Ind. Equalizer for vehicle suspension. No. 1,423,180; July 18.
- Broch, Albert T., New York, N. Y. Gas heater. No. 1,438,092; Dec. 5.
- Brock, Edward J., et al. (See Newkirk, William P., assignor.)
- Brock, Edward L., administrator. (See Brock, Matthias.)
- Brock, Ellis R., Athens, Ga. Window-shade roller. No. 1,417,298; May 23.
- Brock, Frank P. (See Redman, L. V., Weith, and Brock.)
- Brock, Holden, St. Louis, Mo. Machine for forming plastic tile. No. 1,418,227; May 30.
- Brock, Homer G., Kansas City, Mo. Electrical body heater and steamer. No. 1,415,784; May 9.
- Brock, Lester C., Xenia, Ohio. Air-cooled motor. No. 1,409,822; Mar. 14.
- Brock, Matthias, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Turned-shoe-shaping machine. No. 1,402,208; Jan. 3.
- Brock, Matthias, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Lasting machine. No. 1,404,188; Jan. 24.
- Brock, Matthias, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,406,337; Feb. 14.
- Brock, Matthias, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Mechanism for use in shaping shoe uppers. No. 1,407,321; Feb. 21.
- Brock, Matthias, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Upper-shaping machine. No. 1,414,498; May 2.
- Brock, Matthias, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine and method for use in shaping uppers. No. 1,425,942; Aug. 15.
- Brock, Matthias, deceased, Boston; by E. L. Brock, administrator, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting machine. No. 1,417,493; May 30.
- Brock, Matthias, deceased; E. L. Brock, administrator, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work-positioning mechanism for upper-forming and other machines. No. 1,419,213; June 13.
- Brock, Paul P., Gillespie, Ill. Music-leaf turner. No. 1,438,893; Dec. 12.
- Brock, Richard E., Canton, assignor to The Woodward Machine Company, Wooster, Ohio. Continuous tube rolling mill. No. 1,420,239; June 20.
- Brock, William E., Indianapolis, Ind. Fuel strainer for tanks. No. 1,415,217; May 9.
- Brockbank, Clarence J., assignor to Abrasive Company, Philadelphia, Pa. Manufacturing artificial abrasives from bauxite and emery. No. 1,402,714; Jan. 3.
- Brocken, Joseph A., Sharon, Pa. Sanitary container cap. No. 1,413,000; Apr. 18.
- Brockett, Bluford W., Cleveland Heights, Ohio. Apron control. No. 1,432,832; Oct. 24.
- Brockies, Alfred C. (See Graham, E. A., and Brockies.)
- Brockmiller, Frederick W. A., St. Petersburg, Fla. Faucet for soda fountains. No. 1,427,148; Aug. 29.
- Brocksmith, Adolph R., St. Louis, Mo. Deep-well pump. No. 1,430,789; Oct. 3.
- Brockton Rand Company. (See Barbour, P. E., and Lyon, assignors.)
- Brockway, Carl P., Toledo, Ohio. Combined air-intake and breather pipe. No. 1,413,961; Apr. 25.
- Brockway, Carl P., assignor to Industrial Research Corporation, Toledo, Ohio. Oiling system. No. 1,402,281; Jan. 3.
- Brockway, Carl P., assignor to Industrial Research Corporation, Toledo, Ohio. Reinforced primary for starting or ignition systems. No. 1,434,588; Nov. 7.
- Brockway, Carl P., assignor to Industrial Research Corporation, Toledo, Ohio. Electric generating system. No. 1,434,988; Nov. 7.
- Brockway, Carl P., assignor to The Willys-Overland Company, Toledo, Ohio. Gear puller. No. 1,436,081; Nov. 21.
- Brockway, Carl P., assignor to Industrial Research Corporation, Toledo, Ohio. Engine oiler. No. 1,437,927; Dec. 5.
- Brockway, Carl P., assignor to Industrial Research Corporation, Toledo, Ohio. Internal-combustion engine. No. 1,437,928; Dec. 5.
- Brockway, Carl P., assignor to Industrial Research Corporation, Toledo, Ohio. Internal-combustion engine. No. 1,437,929; Dec. 5.
- Brockway, Richard W., assignor to Brockway & Meckensturm Machine Company, Moodus, Conn. Twister. No. 1,416,941; May 23.
- Brockway & Meckensturm Machine Company. (See Brockway, Richard W., assignor.)
- Broderick, John W., Hillside, assignor of one-half to R. M. Everett, Bloomfield, N. J. Lock nut. No. 1,432,050; Oct. 17.
- Brodowski, John F., and G. J. Burmeister, Milwaukee, Wis. Panel lock. No. 1,434,038; Oct. 31.
- Brody, Nathan S., Cleveland, Ohio. Raw-egg-shell-cutting device. No. 1,403,383; Jan. 10.
- Broecker, William, Minneapolis, Minn. Potato carrier for potato diggers. No. 1,425,745; Aug. 15.
- Broege, Robert J., Harvey, Ill., assignor to Buda Company. Lubricating device for gas engines. No. 1,417,659; May 30.

Alphabetical list of patentees—Continued.

- Broel, Louis G., Leichardt, near Sydney, New South Wales, Australia. Handling kapok. No. 1,421,663; July 4.
- Brogan, James A., Lawrence, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Welt-winding machine. No. 1,412,837; Apr. 18.
- Brogan, James A., Lawrence, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Tying device. No. 1,427,782; Sept. 5.
- Brogan, Michael F., Lawrence, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe. No. 1,412,838; Apr. 18.
- Brogden, Alvey L., Abbeville, S. C. Dirigible headlight. No. 1,420,025; July 4.
- Broge, Richard S. (See Burglund, Andrew, assignor.)
- Brogren, Sven G., and K. Karlsson, Gottenborg, Sweden. Burner for petroleum stoves. No. 1,406,338; Feb. 14.
- Broido, Benjamin, assignor to The Superheater Company, New York, N. Y. Superheater. No. 1,411,680; Apr. 4.
- Broido, Benjamin, assignor to The Superheater Company, New York, N. Y. Boiler with superheater. No. 1,411,704; Apr. 4.
- Broido, Benjamin, assignor to The Superheater Company, New York, N. Y. Boiler with superheater. No. 1,417,023; May 23.
- Broido, Benjamin, assignor to The Superheater Company, New York, N. Y. Water-tube boiler with superheater. No. 1,417,024; May 23.
- Broido, Benjamin, assignor to The Superheater Company, New York, N. Y. Superheat regulator. No. 1,433,981; Oct. 31.
- Broido, Benjamin, assignor to The Superheater Company, New York, N. Y. Superheater. No. 1,439,862; Dec. 26.
- Broluska, Amel B., Detroit, Mich. Slack adjuster for vehicle brakes. No. 1,409,996; Mar. 21.
- Broman, Peter, assignor to Brown Safety Ladder Mfg. Co., Chicago, Ill. Ladder-making machine. No. 1,426,255; Aug. 15.
- Brombacher, Julius, Los Angeles, Calif. Pilot-light burner. No. 1,423,750; July 25.
- Bromley, Edson M., Bristol, Ill. Hayrack. No. 1,425,171; Aug. 8.
- Bronander, Wilhelm B., Montclair, N. J. Phonograph record die holder. No. 1,413,571; Apr. 25.
- Bronander, Wilhelm B., Montclair, N. J. Chuck. No. 1,424,235; Aug. 1.
- Bronander, Wilhelm B., Montclair, N. J. Two-stroke-cycle opposed-piston internal-combustion engine. No. 1,432,320; Oct. 17.
- Brøndby, Fridtjof N., assignor to A/S Perkussion, Christiania, Norway. Combined rifle grenade and hand grenade. No. 1,416,545; May 16.
- Brøndby, Fridtjof N., assignor to A/S Perkussion, Christiania, Norway. Ignition mechanism for hand grenades, projectiles, and mines. No. 1,416,662; May 16.
- Bronicki, Wladyslaw. (See Putkowski, Charles, assignor.)
- Bronnert, Emile, Mulhouse, France. Manufacture of viscose silk. No. 1,419,714; June 13.
- Bronnert, Emile, Mulhausen, France. Manufacture of artificial silk. No. 1,422,412; July 11.
- Bronnert, Emile, Mulhausen, France. Manufacture of artificial silk. No. 1,426,953; Aug. 22.
- Bronnert, Emile, Mulhausen, Alsace Lorraine, France. Drying artificial silk. No. 1,437,491; Dec. 5.
- Bronnert, Emile, Niedermorschweiler, near Mulhausen, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Manufacture of lustrous threads from crude viscose by means of warm mineral acids. No. 1,414,070; Apr. 25.
- Bronshvag, Arthur A., New York, N. Y. Picture mounting. No. 1,403,537; Jan. 17.
- Bronson, Adelbert E., Cleveland, Ohio. Dust-cap construction. No. 1,418,524; June 6.
- Bronson, Adelbert E., Cleveland, Ohio. Valve for pneumatic tires. No. 1,426,350; Aug. 22.
- Bronson, Adelbert E., Cleveland, Ohio. Dust cap. No. 1,432,525; Oct. 17.
- Bronson, Fred L., assignor of one-fifth to H. Alexander, one-fifth to A. B. Johnston, one-fifth to H. E. Johnston, and one-fifth to A. J. Alexander, Wichita Falls, Tex. Spark plug. No. 1,433,117; Oct. 24.
- Bronson, John W., New Orleans, La. Cultivating implement. No. 1,424,552; Aug. 1.
- Brook, Basil B., Aberdeen, Wash. Soil or turf renovating brush harrow. No. 1,421,060; June 27.
- Brook, Percy S. (See Hirst, J. A., and Brook.)
- Brookby, Harry E., Evanston, assignor to United States Gypsum Company, Chicago, Ill. Composition wallboard and making the same. No. 1,428,827; Sept. 12.
- Brooker, Howard H., New York, N. Y. Tank-closure lock. No. 1,407,922; Feb. 28.
- Brookes, Elijah, Stoke-on-Trent, England. Die for forming handles for cups, etc. No. 1,417,967; May 30.
- Brookes, Elijah, Stoke-on-Trent, England. Apparatus for the manufacture of pottery. No. 1,417,968; May 30.
- Brookhart, Charles B., Cleveland Heights, Ohio. Holder for clotheslines and the like. No. 1,408,261; Feb. 28.
- Brooklyn Manufacturing Company, The. (See Callum, H. B. M., and Hollister, assignors.)
- Brooklyn Trust Company et al. (See Mackintosh, Edward D., assignor.)
- Brookman, Otto B. (See Turpin, J. H., and Brookman.)
- Brooks, Albert A., Indianapolis, Ind. Gas-pipe cleaner. No. 1,435,277; Nov. 14.
- Brooks, Alfred A., Swampscott, Mass., assignor to General Electric Company. Impeller for centrifugal compressors and the like. No. 1,426,954; Aug. 22.
- Brooks Bank Note Company. (See Lambert, Russell A., assignor.)
- Brooks, Benjamin T. (See Bacon, R. F., and Brooks.)
- Brooks, Benjamin T., Bayside, N. Y., assignor of one-half to The Viscoid Co., Leominster, and one-half to The Fiberloid Corporation, Indian Orchard, Mass. Manufacture of Borneols and camphene. No. 1,426,036; Aug. 15.
- Brooks, Boulthbee, assignor to J. B. Brooks and Company, Limited, Birmingham, England. Cycle, motor-cycle, and analogous saddle. No. 1,416,942; May 23.
- Brooks, Cassius C., Rowood, Ariz. Resilient wheel. No. 1,431,285; Oct. 10.
- Brooks, Charles D., Brooklyn, N. Y. Composite structure. No. 1,428,320; Sept. 5.
- Brooks, Charles E., St. Louis, Mo. Tractor. No. 1,433,257; Oct. 24.
- Brooks, Charles P., Pleasant Plains, Ark. Churn. No. 1,409,823; Mar. 14.
- Brooks, Charles T. (See Sargent, F. G., and Brooks.)
- Brooks, Clifford C., and E. O. Klemm, assignors to Klemm Manufacturing Company, Saginaw, Mich. Automatic stop and repeating means for graphophones. No. 1,406,604; Feb. 14.
- Brooks, Clifford C., and E. O. Klemm, assignors to Klemm Manufacturing Company, Saginaw, Mich. Automatic stop and repeating means for graphophones. No. 1,406,605; Feb. 14.
- Brooks, Clifford C., and E. O. Klemm, Fenton, assignors to Klemm Manufacturing Company, Saginaw, Mich. Automatic stop and repeating means for graphophones. No. 1,406,606; Feb. 14.
- Brooks, Clifford C., and E. O. Klemm, assignors to Klemm Manufacturing Company, Saginaw, Mich. Automatic stop and repeating means for graphophones. No. 1,406,607; Feb. 14.
- Brooks, Clifford C., and E. O. Klemm, assignors to Klemm Manufacturing Company, Saginaw, Mich. Automatic stopping and repeating means for graphophones. No. 1,406,608; Feb. 14.
- Brooks, Clifford C. and E. O. Klemm, assignors to Klemm Manufacturing Company, Fenton, Mich. Graphophone stop mechanism. No. 1,437,959; Dec. 5.
- Brooks, Frank P., Clay, Ky. Poultry crate. No. 1,432,960; Oct. 24.
- Brooks, George W., Topeka, Kans. Screenshot holder. No. 1,423,991; July 25.
- Brooks, George W., Topeka, Kans. Blackboard. No. 1,434,989; Nov. 7.
- Brooks, Herbert, Ipswich, assignor to Petters Limited, Yeovil, Somerset, England. Starting lamp for internal-combustion engines. No. 1,421,158; June 27.
- Brooks, J. B., and Company. (See Brooks, Boulthbee, assignor.)
- Brooks, J. B., and Company Limited. (See Lawrence, Arthur H., assignor.)
- Brooks, James A., assignor to The J. G. Brill Company, Philadelphia, Pa. Safety gate for cars. No. 1,423,303; July 18.
- Brooks, James W., Baltimore, Md. Valve. No. 1,439,062; Dec. 19.
- Brooks, John C., Paterson, N. J. Loom. No. 1,405,096; Jan. 31.
- Brooks, John C., Paterson, N. J. Loom. No. 1,426,351; Aug. 22.
- Brooks, Lloyd B., assignor to Stay-Rite Mfg. Co., Philadelphia, Pa. Necktie retainer. No. 1,422,658; July 11.
- Brooks, Raymond, Benson Mines, N. Y. Theater seat. No. 1,422,825; July 18.
- Brooks, Stephen H., Cleveland, Ohio. Self-renewing fuse. No. 1,416,258; May 16.
- Brooks, Stephen H., assignor to Oil Conservation Engineering Company, Cleveland, Ohio. Gauge-hole cover. No. 1,403,735; Jan. 17.
- Brooks, Vaughn W., Joliet, Ill. Sharpening material. No. 1,430,052; Sept. 26.
- Brooks, Wallace L., Schenectady, N. Y., assignor to General Electric Company. Construction of current-carrying resistors. No. 1,413,001; Apr. 18.
- Brooks, Walter C., Springfield, Mass. Manufacturing bits. No. 1,410,990; Mar. 28.
- Brooks, William E., and B. S. Eppes, Battle Creek, Mich. Container. No. 1,411,475; Apr. 4.
- Brooks, William G., Chicago, Ill., and L. G. Riley, Wilkesburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. System of control. No. 1,427,352; Aug. 29.
- Brooks, Winfred M., South Orange, N. J. Sealing means. No. 1,416,683; May 23.
- Broome, William, Oswego, N. Y. Carpet or rug fastener. No. 1,430,353; Sept. 26.
- Broomell, Albert P., deceased, York, Pa.; J. L. Broomell, executrix. Oil-burning apparatus. No. 1,423,181; July 18.
- Broomell, Janet L., executrix. (See Broomell, Albert P.)
- Brophy, Allen O., Oak Park, Ill. Dental casting ring. No. 1,429,322; Sept. 19.
- Rose, Adolph C., New York, N. Y. Apparatus and method for imprinting hard-rubber articles. No. 1,410,732; Mar. 28.

- Brososky, Frank, Haywood, assignor of one-half to A. Kubis, Moundsville, W. Va. Farm wagon. No. 1,428,748; Sept. 12.
- Brossoit, James J., Salt Lake City, Utah. Drill bit. No. 1,428,415; Sept. 5.
- Brothers, Eli, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over machine. No. 1,421,394; July 4.
- Brotherton, Frank. (See Brotherton, Harrison and F.)
- Brotherton, Harrison, Brierfield, and F. Brotherton, Bowdon, England. Device for calculating or computing purposes. No. 1,424,194; Aug. 1.
- Brotsch, Frederick A., Jr., Rochester, N. Y. Pavement. No. 1,421,901; July 4.
- Brotz, Anton F., assignor to Kohler Company, Kohler, Wis. Generator regulator. No. 1,434,365; Nov. 7.
- Brouder, Harry, Worcester, Mass. Trousers. No. 1,419,127; June 13.
- Broughton, Walter C., Kansas City, Mo. Fireproof door. No. 1,416,943; May 23.
- Broulheit, Georges, St. Etienne, France. Suspension of vehicles. No. 1,411,159; Mar. 28.
- Brouner, Benjamin N., Hyattsville, Md. Combined tool box and trestle. No. 1,404,266; Jan. 24.
- Broussouse, Fernand L., and P. J. Leboucher, Paris, France. Elastic suspension for vehicles and other bodies in motion. No. 1,427,060; Aug. 22.
- Brouyette, Charles D., Topeka, Kans. Red bottom. No. 1,431,149; Oct. 10.
- Broward, Benjamin T., Cleveland, Ohio. Tool holder. No. 1,406,339; Feb. 14.
- Broward, Benjamin T., Cleveland, Ohio. Tool holder. No. 1,433,527; Oct. 31.
- Brower, George E., Hutchinson, Kans. Axle gauge. No. 1,433,064; Oct. 24.
- Brower, John, Cheyenne, Wyo. Hinge. No. 1,438,215; Dec. 12.
- Brower, Lewis N., and P. Werle, Sellersburg, Ind. Plastic composition for use as a coating for walls of buildings. No. 1,416,684; May 23.
- Brower, Morland A. (See Wegner, William F., assignor.)
- Brower, Willis A., Adrian, assignor to Michigan Mutual Liability Company, Detroit, Mich. Safety attachment for punch presses. No. 1,418,525; June 6.
- Brown, Adolphus L., St. Louis, Mo. Door latch. No. 1,435,581; Nov. 14.
- Brown, Albert, assignor of one-half to G. W. Clevenger, Vale, Oreg. Screw casing. No. 1,434,806; Nov. 7.
- Brown, Albert F., Los Angeles, and L. B. Burck, Pasadena, Calif. Automatic means for controlling electrically-heated devices. No. 1,422,735; July 11.
- Brown, Albert J., and J. J. Davies, Jr., Philadelphia, Pa. Dry dock. No. 1,410,243; Mar. 21.
- Brown, Alexander T., Syracuse, N. Y. Agricultural machine. No. 1,416,259; May 16.
- Brown, Alexander T., Syracuse, N. Y. Swath board for mowing machines. No. 1,432,014; Oct. 17.
- Brown, Alexander T., Syracuse, assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Electric exchange system. (Reissue.) No. 15,261; Jan. 10.
- Brown, Alfred J., and G. I. Paulson, Brooklyn, N. Y. Nonresalable box. No. 1,429,185; Sept. 12.
- Brown, Alfred W. (See Howell, J., and Brown.)
- Brown, Amanda C., Brooklyn, N. Y. Protective garment. No. 1,418,626; June 6.
- Brown, Arnold V., Oak Park, Ill. Tip for webbing. No. 1,420,812; June 27.
- Brown, Bascom J., Ensley, Ala. Watch winding chuck. No. 1,434,990; Nov. 7.
- Brown, Bernard G. (See Fugitt, Forrest, assignor.)
- Brown, Carlton E., Chicago, Ill. Bracket for printometers. No. 1,423,182; July 18.
- Brown, Charles A., et al. (See Earl, George G., assignor.)
- Brown, Charles A., Lorain, Ohio. Cleansing filters. No. 1,406,340; Feb. 14.
- Brown, Charles A., London, England. Tubular heat exchanger. No. 1,410,548; Mar. 23.
- Brown, Charles A., Gardner, assignor, by mesne assignments, to Heywood-Wakefield Company, Boston, Mass. Combined hinge and stop for desk lids and the like. No. 1,423,513; July 25.
- Brown, Charles H., Ranger, Tex. Grapple. No. 1,421,159; June 27.
- Brown, Charles H., Indianapolis, Ind. Shock absorber. No. 1,425,834; Aug. 15.
- Brown, Charles H., assignor of twenty-four and one-half per cent to J. Ecklund and twenty-four and one-half per cent to G. R. Lincks, Richmond, Calif. Antiknocking device for pistons of internal-combustion engines. No. 1,425,630; Aug. 15.
- Brown, Charles M., Toronto, Ontario, Canada. Recovering potassium and aluminum from feldspar. No. 1,402,831; Jan. 10.
- Brown, Charles S., Bethel, Me. Feed wheel for spool machines. No. 1,421,395; July 4.
- Brown, Charles W., Utica, N. Y., assignor to The Singer Manufacturing Company. Folding and trimming mechanism for sewing machines. No. 1,438,293; Dec. 12.
- Brown, Charlie E., Findlay, Ohio. Roundabout. No. 1,418,775; June 6.
- Brown, Chauncey L., assignor to Northfield Iron Company, Northfield, Minn. Journal box for mixing machines. No. 1,407,186; Feb. 21.
- Brown, Chester W., Chicago, Ill. Knife and scissors sharpener. No. 1,414,172; Apr. 25.
- Brown, Christopher, Charleroi, Pa. Edge-smoothing machine. No. 1,415,785; May 9.
- Brown, Christopher, Charleroi, Pa., assignor to Pittsburgh Plate Glass Company. Sheet-glass clamp. No. 1,431,928; Oct. 17.
- Brown, Clarence C. (See Weeks, S. R., and Brown.)
- Brown, Clarence D., Washington, D. C. Faucet. No. 1,408,979; Mar. 7.
- Brown, Clarence J. and C. F., assignors, by mesne assignments, to Brown Paper Goods Company, Chicago, Ill. Machine for forming paper receptacles. No. 1,419,355; June 13.
- Brown, Claude C. (See Reese, C. C., and Brown.)
- Brown, Claude F. (See Brown, Clarence J. and C. F.)
- Brown, Ciern D. (See Morgan, E., and Brown.)
- Brown, Clement, Birchfield, Birmingham, England. Carburetor for internal-combustion engines. No. 1,422,413; July 11.
- Brown Clutch Co., The. (See Hottman, Charles W., Jr., assignor.)
- Brown, Colin, Rochester, N. Y. Powder distributor. No. 1,422,253; July 11.
- Brown Company. (See Brown, O. B., Moore, Parker, and Martinson, assignors.)
- Brown Company. (See Chase, A. W., and Van Arsdel, assignors.)
- Brown Company. (See Parker, Howard, assignor.)
- Brown Company. (See Richter, G. A., and Van Arsdel, assignors.)
- Brown Company. (See Richter, George A., assignor.)
- Brown, Cuthbert J. (See Wilson, C. H., and Brown.)
- Brown, Davis, Bucyrus, Ohio. Cooler. No. 1,410,365; Mar. 21.
- Brown, Douglas S. M. (See Fairbank, Henry, assignor.)
- Brown, E. W. (See Rote, Charles V., assignor.)
- Brown, Earl R., Redlands, Calif. Ore separator. No. 1,422,736; July 11.
- Brown, Edmund C., Hardin, Mont. Washing machine. No. 1,435,628; Nov. 14.
- Brown, Edward, Hartford, Conn. Wrench. No. 1,406,531; Feb. 14.
- Brown, Edward H., Cleveland, Ohio. Jeweler's tray. No. 1,436,233; Nov. 21.
- Brown, Edward W., assignor of nine-tenths to The Brown Motor Company, Sparks, and one-tenth to R. F. Roope, Chandler, Okla. Motor. No. 1,423,595; July 18.
- Brown, Elona, Jacksonville, Fla. Brassière. No. 1,431,439; Oct. 10.
- Brown, Emmett J., Detroit, Mich. Line holder. No. 1,432,526; Oct. 17.
- Brown, Farmer A., Collinsville, Ala. Hay press. No. 1,435,102; Nov. 7.
- Brown, Foydice C., Selma, Calif. Lock. 1,434,325; Oct. 31.
- Brown, Francis A. J., Clifton, England. Pump and the like. No. 1,427,512; Aug. 29.
- Brown, Francis M., Wilson, Okla. Brace. No. 1,433,776; Oct. 31.
- Brown, Francis N., Jr., El Paso, Tex. Lock for radiator caps. No. 1,415,517; May 9.
- Brown, Frank D., Burkburnett, Tex. Washing machine. No. 1,427,061; Aug. 22.
- Brown, Frank H. (See Ziemba, John, assignor.)
- Brown, Frank O., St. Louis, Mo. Electrically-heated tongs. No. 1,422,826; July 18.
- Brown, Frank W., et al. (See Von Vargyas, Eugene, assignor.)
- Brown, Fred C., Seattle, Wash. Portable self-heating hot-water radiator. No. 1,433,065; Oct. 24.
- Brown, Frederick S., Torrington, Conn. Soap-holding brush. No. 1,423,992; July 25.
- Brown, Garnet C., Dayton, assignor to The Willys-Overland Company, Toledo, Ohio. Lubricating system. No. 1,427,190; Aug. 29.
- Brown, Geo. W., & Son, State Bank, trustee. (See Frost, Ralph I., assignor.)
- Brown, George R., Bondi, near Sydney, New South Wales, Australia, assignor to Electrostatic Separation Company, Limited, Sydney, New South Wales, Australia. Process and apparatus for electrostatic separation of finely-divided discrete material. No. 1,422,026; July 4.
- Brown, George W., Grafton, W. Va. Well-capping device. No. 1,409,660; Mar. 14.
- Brown, George W., Grafton, W. Va. Grain cradle. No. 1,419,609; June 13.
- Brown, Gouverneur G. (See Dallmeyer, T. D., Brown, and Schultz.)
- Brown, Grace C., San Francisco, Calif. Water cycle. No. 1,422,533; July 11.
- Brown, Grover C., Johnstown, Pa. Clothes drier. No. 1,438,630; Dec. 12.
- Brown, Guy B., Gardner, Mass. Machine for shaping articles. No. 1,407,724; Feb. 28.
- Brown, Guy C., Waco, Tex. Pneumatic truck tire changing device. No. 1,415,865; May 16.
- Brown, Hanson & Boettcher. (See Diener, John A., assignor.)
- Brown, Harold M., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-making machine. No. 1,438,156; Dec. 5.

Alphabetical list of patentees—Continued.

- Brown, Harry E., Wichita, Kans. Wrench. No. 1,404,089; Jan. 17.
- Brown, Harry E., Grenola, Kans. Adjuster. No. 1,424,799; Aug. 8.
- Brown, Harry M., New Kensington, Pa. Car coupling. No. 1,429,186; Sept. 12.
- Brown, Harry M., assignor to Spring Stopper Company, Brooklyn, N. Y. Machine for making bottles, etc. No. 1,406,722; Feb. 14.
- Brown, Harry W., Buffalo, N. Y. Meat-handling apparatus. No. 1,416,443; May 16.
- Brown, Hattie, Bellewood, Miss. Car steps. No. 1,404,189; Jan. 24.
- Brown, Henry A. (See Cammack, L. H., and Brown.)
- Brown, Henry B., assignor to Taylor Instrument Companies, Rochester, N. Y. Damping device for electrical instruments. No. 1,429,840; Sept. 19.
- Brown, Henry B., assignor to Automatic Electric Company, Chicago, Ill. Impulse-correcting repeater. No. 1,435,206; Nov. 14.
- Brown, Henry J., New York, N. Y. Phonograph booth. No. 1,407,322; Feb. 21.
- Brown, Herbert C. (See Seaboldt, B., and Brown.)
- Brown, Herman E., Kingston, N. Y., and J. H. Stover, Nutley, N. J., assignors to Sona Corporation, New York, N. Y. Plastic binding and waterproofing material and making the same. No. 1,431,455; Oct. 10.
- Brown, Hiram F., assignor of one-third to L. E. Brown and one-third to Peter B. Hansen, Minneapolis, Minn. Automobile electric hood heater. No. 1,407,725; Feb. 28.
- Brown Hoisting Machinery Company, The. (See Dowd, John P., assignor.)
- Brown Hoisting Machinery Company, The. (See Loucks, James F., assignor.)
- Brown Hoisting Machinery Company, The. (See Monroe, Will K., assignor.)
- Brown, Howard B., Olean, N. Y. Shaft coupling. No. 1,431,286; Oct. 10.
- Brown, Howard S., Oasis, Utah. Steam cooker. No. 1,430,532; Oct. 3.
- Brown, Ida, San Francisco, Calif. Hose-supporter clasp. No. 1,421,061; June 27.
- Brown Instrument Company, The. (See Brown, R. P., and Wagner, assignors.)
- Brown Instrument Company, The. (See Brown, Richard P., assignor.)
- Brown, Irvin C., Minneapolis, and T. Hille, Fergus Falls, Minn. Device for controlling headlights. No. 1,409,661; Mar. 14.
- Brown, Isaac, New York, N. Y. Flexible dental bridge attachment. No. 1,438,167; Dec. 12.
- Brown, Isaac, New York, N. Y. Dental root or tooth dresser. No. 1,438,168; Dec. 12.
- Brown, J. W., Manufacturing Company, The. (See Brown, John W., assignor.)
- Brown, James A., et al. (See Rathman, Gilbert, assignor.)
- Brown, James H., New York, N. Y. Shell frame for eyeglasses. No. 1,428,749; Sept. 12.
- Brown, James M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switchboard lamp. No. 1,415,984; May 16.
- Brown, James M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Controller. No. 1,421,160; June 27.
- Brown, James N., assignor of one-half to J. C. Little, Des Moines, Iowa. Latch. No. 1,415,786; May 9.
- Brown, James S., and R. R. Johnson, Warba, Minn. Egg case. No. 1,416,604; May 16.
- Brown, James W., assignor to Chain Belt Company, Milwaukee, Wis. Unistrand conveying elevator. No. 1,439,141; Dec. 19.
- Brown, Jasper C., Los Angeles, Calif. Curtain. No. 1,407,248; Feb. 21.
- Brown, Jesse J., Hayward, Calif. Rock and sand heater and grader. No. 1,430,790; Oct. 3.
- Brown, John. (See Myer, B., and Brown.)
- Brown, John. (See Myer, B. W., and Brown.)
- Brown, John A., Dallas, Tex. Sash lock. No. 1,403,144; Jan. 10.
- Brown, John H., Spavinaw Creek, Okla. Heating system. No. 1,421,902; July 4.
- Brown, John L., Catonsville, Md., assignor of one-tenth to C. W. Smiley, one-tenth to J. Cohen, and one-tenth to G. L. Rogers, Baltimore, Md. Induction furnace. No. 1,402,832; Jan. 10.
- Brown, John W., assignor to The J. W. Brown Manufacturing Company, Columbus, Ohio. Lamp. No. 1,413,962; Apr. 25.
- Brown, John W., jr., Philadelphia, Pa. Dashpot. No. 1,434,197; Oct. 31.
- Brown, Joseph A., Hermleigh, Tex. Railway spike. No. 1,433,575; Dec. 12.
- Brown, Joseph F. (See Logan, T. A., Brown, and Davis.)
- Brown, Joseph L., Alpine, Tex. Pipe clamp. No. 1,430,791; Oct. 3.
- Brown, Joseph S., Portland, Oreg. Toe clip. No. 1,417,447; May 23.
- Brown, Julius A., Peekskill, N. Y. Reproducer for phonographs. No. 1,406,258; Feb. 14.
- Brown, L. E., et al. (See Brown, Hiram F., assignor.)
- Brown, Lanville A., Kansas City, Mo. Folding bed. No. 1,403,465; Jan. 10.
- Brown, Leon C. (See Haviland, C. M., and Brown.)
- Brown, Lewis S., Saginaw, Mich. Hook button. No. 1,438,294; Dec. 12.
- Brown, Lloyd, Los Angeles, Calif., assignor to Silent Drama Syndicate, a trusteeship; Lloyd Brown and Alexander Graydon, trustees. Film gate for kinetograph mechanism. No. 1,404,707; Jan. 24.
- Brown, Lloyd, Los Angeles, Calif., assignor to Silent Drama Syndicate, a trusteeship; L. Brown and A. Graydon, trustees. Magazine and magazine attachment for kinetographs. No. 1,428,138; Sept. 5.
- Brown, Lloyd, Los Angeles, Calif., assignor to Silent Drama Syndicate, a trusteeship; L. Brown and A. Graydon, trustees. Picture studio. No. 1,428,139; Sept. 5.
- Brown, Lloyd, Los Angeles, Calif., assignor to Silent Drama Syndicate, a trusteeship; L. Brown and A. Graydon, trustees. Construction for motion-picture cameras or the like. No. 1,428,321; Sept. 5.
- Brown, Louis H. (See O'Donnell, John, jr., assignor.)
- Brown, Lucius A., assignor to The M. M. Johnson Company, Clay Center, Nebr. Incubator. No. 1,414,858; May 2.
- Brown, Lucy P., St. Louis, Mo. Graduated copyholder guide. No. 1,435,376; Nov. 14.
- Brown, Max. (See Bonner, William T., assignor.)
- Brown, Max, Brookline, Mass. Vulcanized sole. No. 1,428,356; Sept. 5.
- Brown, Max, Boston, Mass. Molded sole. No. 1,432,961; Oct. 24.
- Brown, Merton V., Detroit, Mich. Transmission mechanism. No. 1,429,323; Sept. 19.
- Brown, Milton D., assignor of one-half to C. V. Barfield, San Francisco, Calif. Sifter. No. 1,416,260; May 16.
- Brown, Milton F., et al., trustees. (See Pelot, Frank D., assignor.)
- Brown, Mortimer J., assignor to The Pacific R. & H. Chemical Corporation, Los Angeles, Calif. Apparatus for measuring and gasifying liquids. No. 1,426,831; Aug. 22.
- Brown Motor Company, The, et al. (See Brown, Edward W., assignor.)
- Brown, Myer. (See Hitchcock, George E., assignor.)
- Brown, Nicholas E. (See Johnson, C. E., and Brown.)
- Brown, Non H., Davenport, Iowa. Line reel. No. 1,439,726; Dec. 26.
- Brown, Oakley T., Audubon, N. J., assignor to Camden Iron Works. Gas-producer construction. No. 1,403,890; Jan. 17.
- Brown, Oakley T., Audubon, assignor, by mesne assignments, to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Coal feed for gas producers or furnaces. No. 1,429,711; Sept. 10.
- Brown, Oakley T., Audubon, assignor, by mesne assignments, to United States Cast Iron Pipe and Foundry Company, Burlington, N. J. Gas-producer feed. No. 1,433,109; Oct. 24.
- Brown, Orlando H., Victoria, British Columbia, Canada. Grain elevator. No. 1,422,634; July 11.
- Brown, Orton E., H. K. Moore, and H. Parker, Berlin, N. H., and H. M. Martinson, La Tuque, Quebec, Canada, assignors to Brown Company, Portland, Me. Method of and apparatus for washing pulp. No. 1,421,664; July 4.
- Brown, Oscar E., Lancaster, Pa. Valve grinder. No. 1,430,285; Sept. 26.
- Brown, P. T., Construction Company. (See Whelpley, Earl G., assignor.)
- Brown Paper Goods Company. (See Brown, Clarence J. and C. F., assignors.)
- Brown, Patrick J. (See Hartwick, L. M., and Brown.)
- Brown, Percy, and F. J. Bostock, Huddersfield, England, assignors to Timken-Detroit Axle Company. Forming gears by grinding. No. 1,415,016; May 9.
- Brown, Peter, Hampton, Va. Ice-cream-cone carrier. No. 1,427,440; Aug. 29.
- Brown, Phelps, Springfield, Mass. Actuating mechanism for magnetos. No. 1,427,718; Aug. 29.
- Brown, Philip. (See Bush, E. M., and Brown.)
- Brown, Ralph D. (See Luetgert, A. C., and Meiklejohn, assignors.)
- Brown, Ralph L. (See Sperr, F. W., Jr., and Brown.)
- Brown, Ralph L., assignor to The Koppers Company, Pittsburgh, Pa. Purification of phenol-contaminated liquors. No. 1,437,394; Dec. 5.
- Brown, Ray M., Yonkers, assignor to H. L. Ingersoll, White Plains, N. Y. Safety clutch for booster motors. No. 1,437,129; Nov. 28.
- Brown, Raymond T., Lima, Ohio. Wrench. No. 1,420,409; June 20.
- Brown, Reinhardt H., assignor to Outing Kumfy Kab Company, Laporte, Ind. Child's vehicle. No. 1,409,280; Mar. 14.
- Brown, Richard P., assignor to The Brown Instrument Company, Philadelphia, Pa. Clamping device for measuring instruments. No. 1,436,430; Nov. 21.
- Brown, Richard P., and F. Wagner, assignors to The Brown Instrument Company, Philadelphia, Pa. Multiple-recording instrument. No. 1,422,920; July 18.
- Brown, Robert, Calgary, Alberta, Canada. Headlamp for automobiles. No. 1,430,433; Sept. 26.
- Brown, Robert E., Olean, N. Y. Combination razor case, hone, and strop. No. 1,425,446; Aug. 8.
- Brown, Robert G., George School, Pa., assignor to J. E. Streitelmeier, Cincinnati, Ohio. Phonograph brake. No. 1,419,214; June 13.

- Brown, Robert G., Swarthmore, Pa., and J. E. Strietelmeier, Cincinnati, Ohio; said Brown assignor to said Strietelmeier. Automatic repeater. No. 1,413,554; Apr. 18.
- Brown, Robert J., assignor of one-half to J. F. Walden, Merryville, La. Oil-well drill bit. No. 1,421,396; July 4.
- Brown Safety Ladder Mfg. Co. (See Broman, Peter, assignor.)
- Brown, Sidney G., North Acton, England. Repeater for gyrocompasses. No. 1,419,010; June 6.
- Brown, Silas B., assignor to The Edwards Manufacturing Company, Cincinnati, Ohio. Toy pistol. No. 1,438,017; Dec. 5.
- Brown, Spencer K., Syracuse, N. Y. Valve gear. No. 1,436,939; Nov. 28.
- Brown, Stanley, Garden City, assignor to The Griscorn Russell Company, New York, N. Y. Evaporator system. No. 1,405,483; Feb. 7.
- Brown, Stewart. (See Matthews, Jacob S. and W. J., and Brown.)
- Brown, Stewart, Chicago, Ill. Hand-propelled vehicle. No. 1,410,449; Mar. 21.
- Brown, Stewart, Chicago, Ill. Water vaporizer. No. 1,431,719; Oct. 10.
- Brown, Theodore H., assignor of one-third to C. E. Ovenshire, one-third to J. C. MacDonald, and one-third to E. C. Ovenshire, Minneapolis, Minn. Nut lock. No. 1,424,277; Aug. 1.
- Brown, Theophilus, assignor to Deere and Company, Moline, Ill. Motor cultivator. No. 1,411,476; Apr. 4.
- Brown, Theophilus, assignor to Deere & Company, Moline, Ill. Tractor hitch. No. 1,418,228; May 30.
- Brown, Theophilus, assignor to Deere and Company, Moline, Ill. Lister motor cultivator. No. 1,426,544; Aug. 22.
- Brown, Theodore P., et al., trustees. (See White, Frank C., assignor.)
- Brown, Thomas A., Broken Arrow, Okla. Pumping outfit. No. 1,431,095; Oct. 3.
- Brown, Thomas E. (See Hoover, W. W., and Brown.)
- Brown, Thomas E., and J. N. Etheredge, Macon, Ga. Attachment for lathes. No. 1,407,249; Feb. 21.
- Brown, Thomas E., Jr., Morristown, N. J. Bascule bridge. No. 1,406,259; Feb. 14.
- Brown, Thomas J. W., Washington, D. C. Pin fastener. No. 1,433,173; Oct. 24.
- Brown, Thomas R., Sparkill, N. Y., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Combined car and electric coupling. No. 1,412,384; Apr. 11.
- Brown, Vernon M., Anthony, Kans. Trapper's spring gun. No. 1,424,614; Aug. 1.
- Brown, Walter. (See Brown, William and W.)
- Brown, Walter A., Los Angeles, Calif. Separating and topping hydrocarbons from a water mixture. No. 1,419,610; June 13.
- Brown, Walter D. R., and W. T. Pickston, Bolton, England. Apparatus for automatic and continuous analysis and recording of gases. No. 1,422,080; July 11.
- Brown, Walter H., Pasadena, Calif. Low-pressure alarm for pneumatic tires. No. 1,424,278; Aug. 1.
- Brown, Walter R., Decatur, Ill. Invalid bed. No. 1,407,631; Feb. 21.
- Brown, Watson A., Rochester, N. Y. Autographic camera. No. 1,402,833; Jan. 10.
- Brown, Watson A., Rochester, N. Y. Recording camera. No. 1,413,253; Apr. 18.
- Brown, Wilbur F., Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Stirring molten glass in continuous tank furnaces. No. 1,414,008; Apr. 25.
- Brown, Willard W. (See Rogers, Charles L., and M. C., and Brown.)
- Brown, William, Osakis, Minn. Spraying machine. No. 1,433,174; Oct. 24.
- Brown, William and W., assignors to Wm. Simons and Company, Limited, Renfrew, Renfrewshire, Scotland. Dredger. No. 1,408,498; Mar. 7.
- Brown, William C., assignor to J. K. Rush, Syracuse, N. Y. Weed attachment for fishing bait. No. 1,419,540; June 13.
- Brown, William F., San Antonio, Tex. Trailer for land vehicles. No. 1,404,575; Jan. 24.
- Brown, William H., assignor to H. H. Franklin Mfg. Company, Syracuse, N. Y. Calculating machine. No. 1,426,710; Aug. 22.
- Brown, William H. A., assignor of one-half to H. G. Clark and one-half to J. H. Bentley, Chicago, Ill. Window-cleaning device. No. 1,419,356; June 13.
- Brown, William H. A., assignor to J. H. Bentley, Chicago, Ill. Bottle stopper or closure. No. 1,436,645; Nov. 28.
- Brown, William I., Syracuse, N. Y. Attachment for violins and analogous string instruments. No. 1,422,827; July 18.
- Brown, William J., New York, N. Y. Device for boring connecting rods. No. 1,414,337; May 2.
- Brown, William J., assignor to H. W. Beach, Newark, N. J. Spraying nozzle. No. 1,430,533; Oct. 3.
- Brown, William L., Gloversville, N. Y. Traffic guide or signal. No. 1,414,173; Apr. 25.
- Brown, William M., Johnstown, Pa. Switch stand. No. 1,416,397; May 16.
- Brown, William M., and H. F. A. Kleinschmidt, Johnstown, Pa. Clamping mechanism. No. 1,433,600; Oct. 31.
- Brown, William M., C. Burton, and S. C. Weeks, Johnstown, Pa. Switch stand. No. 1,431,365; Oct. 10.
- Brown, William P., and G. M. Brittain, San Francisco, Calif. Mixer for welding torches. No. 1,414,454; May 2.
- Brown, William P., T. A. Errett, and G. M. Brittain, San Francisco, Calif. Cutting tip for torches. No. 1,439,861; Dec. 26.
- Brown, William R., Oakville, Manitoba, Canada. Portable building. No. 1,433,777; Oct. 31.
- Brown, William S. (See Davis, C. W., and Brown.)
- Brown, William S., Wallace, Idaho. Ore-separating device. No. 1,423,751; July 25.
- Brown, Winfred A. (See Watters, G. M., and Brown.)
- Brown & Bigelow. (See Fischer, Howard L., assignor.)
- Brown & Bigelow. (See Kristofek, Frank J., assignor.)
- Brown & Bigelow. (See Richards, Frank F., assignor.)
- Brown & Bigelow. (See Welcker, Paul H., assignor.)
- Brown & Sharpe Manufacturing Company. (See Parker, John W., assignor.)
- Brownback, Henry L., Norristown, assignor, by mesne assignments, to T. O'Leary, Philadelphia, Pa. Explosive engine. No. 1,414,009; Apr. 25.
- Browne, Charles A., Brockton, Mass. Hand wheel. No. 1,433,118; Oct. 24.
- Browne, Frank A., Buffalo, N. Y., assignor to The Barber Asphalt Company, Philadelphia, Pa. Tandem roller. No. 1,421,665; July 4.
- Browne, Hugh M., Washington, D. C. Signal. No. 1,438,576; Dec. 12.
- Browne, Hugh M., assignor of one-fifth to A. Taconelli, Washington, D. C. Furnace draft controller. No. 1,405,749; Feb. 7.
- Browne, John D., Springfield, Mass. Band-joining device. No. 1,415,918; May 16.
- Browne, Joseph A., Portland, Oreg. Stone raker. No. 1,405,750; Feb. 7.
- Browne, Theodore C., Belmont, Mass., and C. F. Brush, Jr., Cleveland, Ohio, assignors to American Thermophone Company, Boston, Mass. Thermophone and making it. No. 1,407,726; Feb. 28.
- Browne, Warren A., Hempstead, N. Y. Toy. No. 1,421,161; June 27.
- Brownell, Charles O., Battle Creek, Mich. Wrapping machine. No. 1,416,165; May 16.
- Brownell, George L., Worcester, Mass. Friction device for twisting and like machines. No. 1,409,824; Mar. 14.
- Brownell, John R., Dayton, Ohio. Combined tire carrier and casing. No. 1,426,455; Aug. 22.
- Brownfield, Walter J., St. Louis, Mo. Transmission band. No. 1,406,440; Feb. 14.
- Browning, George, Chicago, Ill. Safety razor. No. 1,436,751; Nov. 28.
- Browning, John B., Camden, N. J., assignor, by mesne assignments, of fifty-one one-hundredths to The Brunswick-Balke-Coller Company, Talking-machine cabinet and amplifier. No. 1,402,738; Jan. 10.
- Browning, John M., Ogden, Utah. Firearm. No. 1,424,553; Aug. 1.
- Browning, Roy C., Williamsport, Pa. Rafter framer. No. 1,412,162; Apr. 11.
- Browning, Walter J., Huelva, Spain. Production of hydrogen sulphide from sulphurous gases. No. 1,407,323; Feb. 21.
- Browning, Walter J., Huelva, Spain. Extraction of metals. No. 1,407,324; Feb. 21.
- Brownlee, Alexander, San Diego, Calif. Reinforced concrete construction for piers, bulkheads, sea walls, and dry docks. No. 1,414,620; May 2.
- Brownson, Ralph, Hastings, Minn. Mop wringer. No. 1,426,456; Aug. 22.
- Broz, George F., San Francisco, Calif. Price-marking device. No. 1,439,400; Dec. 19.
- Bruback, Theodore M. (See Linaker, F. W., and Bruback.)
- Brubaker, Gordon M., jr., assignor to W. L. Brubaker & Bros. Company, Millersburg, Pa. Stay-bolt tap. No. 1,434,870; Nov. 7.
- Brubaker, W. L., & Bros. Company. (See Brubaker, Gordon M., jr., assignor.)
- Brubaker, William A., Akron, Ohio. Cushion tire. No. 1,414,252; Apr. 25.
- Bruce, Albert R., Detroit, Mich. Armor for pneumatic tires. No. 1,409,522; Mar. 14.
- Bruce, Alfred W., New York, N. Y. Locomotive driving connection. No. 1,413,317; Apr. 18.
- Bruce, Alfred W., New York, N. Y. Lateral-motion appliance for locomotive driving boxes. No. 1,414,455; May 2.
- Bruce, Alfred W., New York, N. Y. Lateral-motion appliance for locomotive driving boxes. No. 1,414,456; May 2.
- Bruce, Alfred W., New York, N. Y. Lateral-motion appliance for locomotive driving boxes. No. 1,428,625; Sept. 12.
- Bruce, Carl W., Toronto, Ontario, Canada. Screening apparatus. No. 1,405,269; Jan. 31.
- Bruce, George K. (See Benson, D. and Bruce.)
- Bruce, John A. (See Marshall, G. R., and Bruce.)
- Bruce, John S., Birmingham, England. Fastener for hinged doors or windows such as the doors of show cases and the like. No. 1,438,894; Dec. 12.

Alphabetical list of patentees—Continued.

- Bruce, Olof L., and E. Aze, Minneapolis, Minn. Vulcanizing core. No. 1,408,980; Mar. 7.
- Bruce, Thomas J., Chicago, Ill. Lubricating system. No. 1,435,103; Nov. 7.
- Bruce, William J., Escanaba, Mich. Magazine binder. No. 1,436,857; Nov. 28.
- Bruce, William M., et al. (See Galopin, Henri, assignor.)
- Bruck, Edward, Spokane, Wash. Combined humidifier and palette attachment. No. 1,414,338; May 2.
- Bruck, Herman F., Galion, Ohio. Attachment for food grinders. No. 1,427,719; Aug. 29.
- Bruck, William A., Pearl River, N. Y. Fowl cleaner. No. 1,421,397; July 4.
- Bruder, Albert A., Holly, Mich. Furnace. No. 1,419,011; June 6.
- Bruder, Edmund, Chicago, assignor to H. I. Koppelman, Wilmette, Ill. Dispenser. No. 1,411,477; Apr. 4.
- Bruder, Edmund, Chicago, assignor to H. I. Koppelman, Wilmette, Ill. Dispenser. No. 1,415,218; May 9.
- Bruder, Edmund, Chicago, assignor of one-half to H. I. Koppelman, Wilmette, Ill. Paper towel and like machine. No. 1,424,709; Aug. 1.
- Brucek, Joseph, and N. Salter, New York, N. Y. Fountain comb. No. 1,408,262; Feb. 28.
- Bruening, Joseph G., Cleveland, Ohio. Windshield. No. 1,429,223; Sept. 19.
- Brugler, Elmer G., Rochester, N. Y. Auto signaling device. No. 1,406,532; Feb. 14.
- Bruhn, Friedrich W. G., Wilmersdorf, near Berlin, Germany. Fare indicator for vehicles. No. 1,436,646; Nov. 28.
- Bruhn, George C., Jr., Wheeling, W. Va. Liquid-fuel-delivery device. No. 1,402,565; Jan. 3.
- Bruhlin, Gustav A., Harburg-on-the-Elbe, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Process of and apparatus for aging and disintegrating superphosphate masses. No. 1,430,621; Oct. 3.
- Bruman, Otto F. (See Graetzer, O., and Bruman.)
- Bruman, Otto F., Zurich-Engel, assignor to Festa A. G., Zurich, Switzerland. Water-heating faucet. No. 1,429,060; Sept. 12.
- Brumback, Thomas J., Cape Girardeau, Mo. Building wall. No. 1,432,962; Oct. 24.
- Brumbaugh, John H., Wilmette, Ill., assignor to Automatic Sprinkler Company of America, New York, N. Y. Meter alarm valve. No. 1,414,723; May 2.
- Brumme, Frank J., Cooksville, Ill. Speed-control device for internal-combustion engines. No. 1,410,796; Mar. 28.
- Brummitt, Emmett A. (See Smith, William A., assignor.)
- Brun, Gaëtan, Paris, France. Self-propelling travelling crane. No. 1,408,263; Feb. 28.
- Brun, Joseph, Chaux de Fond, Switzerland, assignor of one-half to C. F. Depollier, Brooklyn, N. Y. Watch, etc. No. 1,418,427; June 6.
- Bruncken, Johannes, Cohn-Bickendorf, Germany. Starting induction motors. No. 1,437,886; Dec. 5.
- Brundage, Harry, San Francisco, Calif., assignor to G. W. Koerner, New York, N. Y. Paper file and binder. No. 1,423,076; July 18.
- Brundage, Lowell M., Thompson, Pa. Pin inserter and remover. No. 1,425,447; Aug. 8.
- Bruhe, Heinrich, and H. Horst, Frankfurt-on-the-Main, Germany, assignors to The Corporation of Gesellschaft für Maschinelle Druckentwässerung mit beschränkter Haftung, at Uerdingen, Niederrhein, Germany. Utilizing coal slimes. No. 1,416,546; May 16.
- Brunell, Homer A. (See Burnett, Everett R., assignor.)
- Brunell, Joseph, Brooklyn, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Method for use in the manufacture of shoes. No. 1,418,359; June 6.
- Brunelle, Wilfrid A., South Hadley Falls, Mass. Renewable fuse. No. 1,414,977; May 2.
- Bruner, Robert L., Corinth, Miss. Sampling apparatus. No. 1,418,065; May 20.
- Bruner, Simon, New York, N. Y. Watch casing. No. 1,404,090; Jan. 17.
- Brunett, Dewitt A., Minneapolis, Minn. Auxiliary hot water and heating system. No. 1,402,045; Jan. 3.
- Brunett, Dewitt A., Minneapolis, Minn. Hot-air furnace. (Reissue.) No. 15,372; June 6.
- Brunig, Frederick H., Kansas City, Mo. Pneumatic-tire-deflation signal. No. 1,411,705; Apr. 4.
- Brunner, Albert, Santa Barbara, Calif. Electric chime clock. No. 1,414,253; Apr. 25.
- Brunner, Alexander, Newark, N. J. Oil gauge for internal-combustion engines. No. 1,419,012; June 6.
- Brunner, Earl H., New Albany, Ind. Rail joint. No. 1,403,938; Jan. 17.
- Brunner, Hans, Amsterdam, Netherlands. Locking device. No. 1,413,572; Apr. 25.
- Brunner, Hans, assignor to Essex Rubber Company, Trenton, N. J. Scraper. No. 1,411,907; Apr. 4.
- Brunner, Herbert R., assignor, by mesne assignments, to Van Kannel Revolving Door Company, New York, N. Y. Air-preheating device for furnaces. No. 1,430,936; Oct. 3.
- Brunner, Herbert R., assignor, by mesne assignments, to Van Kannel Revolving Door Company, New York, N. Y. Air-preheating device for stoves and furnaces. No. 1,433,601; Oct. 31.
- Brunner, Richard. (See Lieberherr, J., and Brunner.)
- Brunner, Rudolph. (See Seib, L., and Brunner.)
- Brunner, Walter. (See Schmidlin, J., and Brunner.)
- Bruno, Carlo, Turin, Italy. Spring-suspension device for cycles. No. 1,412,012; Apr. 4.
- Bruno, Michael A., Brooklyn, N. Y. Amusement device. No. 1,416,783; May 23.
- Bruns, Alfred E., Brooklyn, N. Y. Container. No. 1,425,236; Aug. 8.
- Bruns, August, Brooklyn, N. Y. Bag. No. 1,426,814; Aug. 22.
- Brunson, James I., et al. (See Butler, Israel, assignor.)
- Brunswick-Balke-Collender Company, The. (See Bishop, Joseph W., assignor.)
- Brunswick-Balke-Collender Company, The. (See Brown-ing, John B., assignor.)
- Brunswick-Balke-Collender Company, The. (See Hedenskoog, Ernest, assignor.)
- Brunswick-Balke-Collender Company, The. (See Nystrom, M., and Spring, assignors.)
- Brunswick-Balke-Collender Company, The. (See Nystrom, Martin, assignor.)
- Brunswick-Balke-Collender Company. (See Thomson, P., and Whelan, assignors.)
- Brunswick-Kroeschell Company. (See Couch, Frederick F., assignor.)
- Brunswick-Kroeschell Company. (See Jones, Walter, assignor.)
- Brush, Alanson P. (See Nacker, Owen M., assignor.)
- Brush, Alanson P., Detroit, Mich. Antifriction bearing. No. 1,404,430; Jan. 24.
- Brush, Alanson P., Detroit, Mich. Muffler. No. 1,426,352; Aug. 22.
- Brush, Alanson P., Detroit, Mich. Antifriction bearing. No. 1,426,353; Aug. 22.
- Brush, Alanson P., Detroit, Mich. Charge-producing device for internal-combustion engines. No. 1,430,792; Oct. 3.
- Brush, Alanson P., Detroit, Mich. Manifold for internal-combustion engines. No. 1,437,395; Dec. 5.
- Brush, Alanson P., Detroit, Mich. Internal-combustion engine and operating the same. No. 1,437,396; Dec. 5.
- Brush, Charles F., Jr. (See Browne, T. C., and Brush.)
- Brush, Leroy E., Elgin, Ill. Expandable reamer. No. 1,409,825; Mar. 14.
- Brushwiler, Robert, and A. Otto, Detroit, Mich., assignors to Morgan & Wright. Machine for mounting tires on sealing rings. No. 1,431,366; Oct. 10.
- Bruun, Sigurd, Fredericksberg, Denmark. Mold for concrete beams. No. 1,423,708; July 25.
- Bruyn, Havik, Birmingham, Ala. Composition for preserving fabrics. No. 1,437,397; Dec. 5.
- Bryan, George A., Peru, Ind. Water-level indicator. No. 1,406,926; Feb. 14.
- Bryan, Herbert N. (See Ewing, C. M., and Bryan.)
- Bryan, Leon O., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Explosive composition. No. 1,420,364; June 20.
- Bryan, William H., Jr., Fresno, assignor to G. D. Bobo, Napa, Calif. Bench vise. No. 1,417,025; May 23.
- Bryant, Asa U. (See Long, J. M., A. U., and C. A. Bryant.)
- Bryant, Charles A. (See Long, J. M., A. U., and C. A. Bryant.)
- Bryant Electric Company. (See Anderson, Carl E., assignor.)
- Bryant Electric Company, The. (See Catlin, Hoyt, assignor.)
- Bryant Electric Company, The. (See Goodridge, Gilbert W., assignor.)
- Bryant Electric Company, The. (See Stendahl, Ludwig K., assignor.)
- Bryant Electric Company, The. (See Thomas, George B., assignor.)
- Bryant Electric Company, The. (See Tizley, Arthur J., assignor.)
- Bryant, Elmer J., and C. G. Johnson, assignors to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Ring thread gauge. No. 1,433,528; Oct. 31.
- Bryant, Everett B., assignor to American Engineering Company, Philadelphia, Pa. Operating mechanism for automatic stokers. No. 1,416,547; May 16.
- Bryant, Frank E. (See Loy, William C., assignor.)
- Bryant, Frederic J., New York, N. Y. Ladder. No. 1,406,972; Feb. 21.
- Bryan, George, Spokane, Wash. Scrubbing pail. No. 1,428,528; Sept. 5.
- Bryant, Herbert J., New York, N. Y. Spring fastener. No. 1,431,929; Oct. 17.
- Bryant, Richard S., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Vehicle wheel rim. No. 1,430,213; Sept. 26.
- Bryant, Richard S., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Rim for vehicle wheels. No. 1,439,941; Dec. 26.
- Bryant, Richard S., deceased, Cleveland, Ohio, by The Standards Parts Company, Cleveland, Ohio, assignee. Demountable vehicle wheel rim. (Reissue.) No. 15,468; Oct. 17.
- Bryant, Stephen O., Bethany, Mo. Post and brush puller. No. 1,427,576; Aug. 29.
- Bryant, Thomas, Santa Monica, Calif., assignor of one-half to G. S. Holmes, Salt Lake City, Utah. Baggage carrier. No. 1,409,437; Mar. 14.
- Bryant, Thomas W., Torrington, Conn. Roller bearing. No. 1,429,224; Sept. 19.

- Bryant, William T., assignor of one-half to E. R. Ratcliff, Shreveport, La. Treatment of petroleum. No. 1,403,145; Jan. 10.
- Bryar, George, Boston, Mass. Trolley. No. 1,419,955; June 20.
- Bryce, James W., Binghamton, assignor to The International Time Recording Company, New York, N. Y. Time recorder. No. 1,412,839; Apr. 18.
- Bryce, James W., Binghamton, assignor to International Time Recording Company of New York, Endicott, N. Y. Recording lock. No. 1,417,715; May 30.
- Brymer, Park V., Jersey City, N. J. Windmill. No. 1,407,373; Feb. 21.
- Brynoldt, Christian, Pittsburgh, Pa., assignor to Blaw-Knox Company. Mold apparatus for concrete bridges and the like. No. 1,402,143; Jan. 3.
- Brynoldt, Christian, Pittsburgh, assignor to Blaw-Knox Company, Hoboken, Pa. Wall form or mold. No. 1,413,705; Apr. 25.
- Bryon, Benn A., Ridgefield, Conn. Demountable wheel and hub construction. No. 1,438,895; Dec. 12.
- Bryon, Robert J., et al. (See Heller, Jesse B., assignor.)
- Bryon, William J., New York, N. Y. Door closer and check. No. 1,421,666; July 4.
- Bryson, John M., Detroit, Mich. Key holder. No. 1,436,694; Nov. 28.
- Bryson, Tandy A., Troy, N. Y., assignor to Tolhurst Machine Works. Ventilated driving mechanism. No. 1,434,770; Nov. 7.
- Bryson, Walter S., et al. (See Dungan, John E., assignor.)
- Brzazowsky, Oscar W., and E. McWilliams, Alpena, S. Dak. Door attachment for shelling-machine hoppers. No. 1,434,647; Nov. 7.
- Brzeziński, John, Pittsburgh, Pa. Safety lock for trunks and the like. No. 1,406,822; Feb. 14.
- Brzostowski, Alexander, Mount Carmel, Pa. Track-rail fastener. No. 1,438,577; Dec. 12.
- Brzozowski, Joseph, Wilkes-Barre, Pa. Motor fan. No. 1,426,256; Aug. 15.
- Brzyski, Joe, and W. Felski, Milwaukee, Wis. Wash-boiler. No. 1,426,257; Aug. 15.
- Bubb, Charles L., Williamsport, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Automatic oiler. (Reissue.) No. 15,267; Jan. 17.
- Buberl, Carl, Detroit, Mich. Apparatus for indicating porosity. No. 1,421,903; July 4.
- Bublitz, William E., Elkhorn, Wis. Cramping form for violin bouts. No. 1,415,144; May 9.
- Buc, Hyum E., Roselle, N. J., assignor, by mesne assignments, to Standard Development Company, New York, N. Y. Producing isopropyl chloride from isopropyl alcohol. No. 1,436,377; Nov. 21.
- Buc, Hyum E., Roselle, N. J., assignor, by mesne assignments, to Standard Development Company, New York, N. Y. Chlorination of isopropyl alcohol. No. 1,436,378; Nov. 21.
- Buc, Hyum E., Roselle, N. J., assignor, by mesne assignments, to Standard Development Company, New York, N. Y. Separation of chloracetones. No. 1,436,940; Nov. 28.
- Buccicone, Dario, Canonsburg, Pa. Feeding mechanism for tinning machines. No. 1,422,535; July 11.
- Bucey, Harold G., Tacoma, Wash. Facing device for ignition contact points. No. 1,402,046; Jan. 3.
- Buch, Max, Detroit, assignor, by mesne assignments, to Edwards Corporation, Jackson, Mich. Top for motor vehicles and the like. (Reissue.) No. 15,499; Dec. 5.
- Buch, Royer S., York, Pa. Liquid-measuring apparatus. No. 1,434,807; Nov. 7.
- Buchan, George, sr., Mansfield, Ohio. Chute support. No. 1,423,643; July 25.
- Buchanan, Claude S., Dayton, Ohio. Filing device. No. 1,436,572; Nov. 21.
- Buchanan, Cyrus, New York, N. Y., and C. C. Johnson, Richmond, Va. Guide for current collectors. No. 1,405,270; Jan. 31.
- Buchanan, Cyrus B., (See Randlett, Willie O., assignor.)
- Buchanan, Cyrus B., and C. C. Johnson, Richmond, Va. Current collector. No. 1,403,891; Jan. 17.
- Buchanan, Judson, Chattanooga, Tenn., assignor, by mesne assignments, to International Harvester Company, Chicago, Ill. Plow. No. 1,409,076; Mar. 7.
- Buchanan, Robert M., Brooksburg, Ind. Propeller-blade control. No. 1,438,093; Dec. 5.
- Buchbinder, Adolph W., Detroit, Mich. Spoon. No. 1,438,018; Dec. 5.
- Buchenberg, Alvin E., assignor to Industrial Research Corporation, Toledo, Ohio. Engine starter. No. 1,413,318; Apr. 18.
- Bucher, William W., Chicago, Ill., assignor, by mesne assignments, to Kohler Company, Kohler, Wis. Automatic electric generating unit. No. 1,422,027; July 4.
- Buchere, Herbert C., Charleston, S. C. Refrigerating apparatus. No. 1,419,215; June 13.
- Büchi, Jakob, Zurich, Switzerland. Device for separating sand carried in watercourses. No. 1,431,367; Oct. 10.
- Buchli, Jacob, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Shaft coupling. No. 1,428,750; Sept. 12.
- Buchman, Edward H., assignor to Bippart, Griscom & Osborn, Newark, N. J. Joint for bracelet links. No. 1,410,366; Mar. 21.
- Büchner, Karl, and F. Stöcklein, Schweinfurt, Germany. Football and other sportball. No. 1,436,630; Nov. 21.
- Buchner, Max, Hanover-Kleefteld, Germany. Fixing synthetic nitric acid. No. 1,427,441; Aug. 29.
- Buchsbaum, Samuel, Chicago, Ill. Caliper device. No. 1,413,319; Apr. 18.
- Buchsbaum, Samuel, Chicago, Ill. Clasp. No. 1,428,678; Sept. 12.
- Buchter, Emil. (See Maag, M., and Buchter.)
- Buck, Abton A., Zurich, Switzerland. Thermostatic circuit closer. No. 1,408,168; Feb. 28.
- Buck, Abton A., Zurich, Switzerland. Electric heater. No. 1,429,402; Sept. 19.
- Buck, Charles P., Topeka, Kans. Machine for bending angle iron. No. 1,428,001; Sept. 5.
- Buck, Clarence C., assignor to The Standard Tool Company, Cleveland, Ohio. Reamer. No. 1,409,921; Mar. 21.
- Buck, Edward, Middletown Junction, near Manchester, England. Means for pressing cot tubes on the spindles of spinning machines. No. 1,435,450; Nov. 14.
- Buck, Frank S., Springfield, Vt., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Last lathe. No. 1,407,727; Feb. 28.
- Buck, Frank S., Springfield, Vt., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Last lathe. No. 1,438,978; Dec. 19.
- Buck, Fred, assignor to The Lufkin Rule Company, Saginaw, Mich. Folding rule. No. 1,432,834; Oct. 24.
- Buck, Herman J., assignor to Mathews Gravity Carrier Company, Ellwood City, Pa. Conveying apparatus. No. 1,407,923; Feb. 28.
- Buck, Homer A., Oakland, assignor to G. Moore, San Francisco, Calif. Making binder for pigments. No. 1,421,125; June 27.
- Buck, John, Jackson, Mich. Railway-car brake. No. 1,436,008; Nov. 21.
- Buck, Norman N. (See Wilterding, F. E., and Buck.)
- Buck, Orlando J. (See Bovee, Ransom Y., assignor.)
- Buck, Thomas F., New Castle, Pa. Safety fender for automobiles. No. 1,404,091; Jan. 17.
- Buck, Thomas F., New Castle, Pa. Safety fender for automobiles. No. 1,415,518; May 9.
- Buck, Thomas F., New Castle, Pa. Safety fender for automobiles. No. 1,415,519; May 9.
- Buck, Thomas F., New Castle, Pa. Safety fender for automobiles. No. 1,434,039; Oct. 31.
- Buck, Wilmer G., Fremont, assignor to Continental Engineering Corporation, Omaha, Nebr. Valve-rotating device. No. 1,414,499; May 2.
- Buckeis, William L., Fort Payne, Ala. Automobile spring wheel. No. 1,419,811; June 13.
- Buckendale, Lawrence R., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Fuel pressure-feed system. No. 1,407,374; Feb. 21.
- Buckendale, Lawrence R., United States Army, assignor to N. D. Baker, Secretary of War, trustee. Epicyclic power transmission. No. 1,424,446; Aug. 1.
- Buckendale, Lawrence R., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Multiple control mechanism. No. 1,425,316; Aug. 8.
- Buckeye Iron & Brass Works. (See Sauer, George A., assignor.)
- Buckeye Iron & Brass Works. (See Sheppard O., jr., and Trace, assignors.)
- Buckeye Iron & Brass Works. (See Sheppard, Orlando, jr., assignor.)
- Buckeye Iron & Brass Works. (See Trace, Russell A., assignor.)
- Buckeye Jack Manufacturing Company, The. (See Bates, Edmund C., assignor.)
- Buckeye Steel Castings Co., The. (See Whitridge, J. C., and Larsen, assignors.)
- Buckeye Tractor Ditcher Company. (See Krupp, Leo A., assignor.)
- Buckeye Twist Drill Company, The. (See Meyers, John F., assignor.)
- Buckeye Twist Drill Company, The. (See Mulac, Anthony A., assignor.)
- Buckham, George T. (See Dawson, A. T., and Buckham.)
- Buckham, George T., and J. I. Nasmith, assignors to Vickers Limited, Westminster, London, England. Wire-stretching machine. No. 1,422,081; July 11.
- Buckhart, James W., assignor to Port Orford Cedar Separator Company, San Francisco, Calif. Battery-spacer-making machine. No. 1,404,713; Jan. 24.
- Buckingham, Charles L., Denver, Colo. Retort furnace and condensing apparatus for the eduction of oil and fuel gas from oil shales and oil sands. No. 1,425,074; Aug. 8.
- Buckingham, Earle, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Thread-milling hob and making same. No. 1,407,837; Feb. 28.
- Buckingham, Harry, et al., administrators. (See Mathews, Thomas.)
- Buckingham, Harry W., et al., executors. (See Mathews, Thomas.)
- Buckingham, Henry W., et al., executor. (See Mathews, Thomas.)
- Buckingham, James F., Coventry, England. Cam-shaft mounting for internal-combustion engines. No. 1,418,282; June 6.
- Buckingham, Roswell H., North Glenside, Pa. Muntin joint. No. 1,412,163; Apr. 11.

Alphabetical list of patentees—Continued.

- Buckler, Leon T., Philadelphia, Pa. Hydrant-draining device. No. 1,433,110; Oct. 24.
- Buckley, Duer, Tyrrell, Ohio. Auto axle support. No. 1,432,963; Oct. 24.
- Buckley, Edward, Auburn, and J. J. White, Lewiston, Me., assignors to United Shoe Machinery Corporation, Paterson, N. J. Producing shoe forms. No. 1,412,815; Apr. 11.
- Buckley, Edward H., Philadelphia, Pa. Spring-lubricating device. No. 1,413,963; Apr. 25.
- Buckley, George A., St. Andrews, Wash. Combined plow and scraper. No. 1,409,826; Mar. 14.
- Buckley, George H., assignor to National Metal Products Company, Indianapolis, Ind. Quick-shift bench vise. No. 1,412,798; Apr. 11.
- Buckley, George H., assignor to National Metal Products Company, Indianapolis, Ind. Quick-setting vise. No. 1,415,787; May 9.
- Buckley, Harry and R., Louisville, Ky. Grinding plate. No. 1,424,615; Aug. 1.
- Buckley, Jerry, Mills, Calif. Separating fruit from leaves. No. 1,415,985; May 16.
- Buckley, Joseph L. (See Bogarty, H., and Buckley.)
- Buckley, Ludwig W., West Somerville, assignor to The Goudey Gum Co., Boston, Mass. Synthetic chicle compound and making same. No. 1,433,019; Dec. 5.
- Buckley, Minerva R., Fort Scott, Kans. Auto dress. No. 1,421,102; June 27.
- Buckley, Oliver E. (See Snook, H. C., and Buckley.)
- Buckley, Oliver E. (See Wold, P. I., and Buckley.)
- Buckley, Oliver E., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and means for exhausting to low pressures. No. 1,433,258; Oct. 24.
- Buckley, Ray. (See Buckley, Harry and R.)
- Buckley, Thomas F., Scranton, Pa. Spring-forming machine. No. 1,428,626; Sept. 12.
- Buckley's, Benjamin, Son, Inc. (See Tiffany, Homer A., assignor.)
- Bucklin, Charles S., Red Bank, N. J., assignor to Sprague Canning Machinery Company, Chicago, Ill. Hand-pack-filling machine. No. 1,433,672; Oct. 31.
- Bucklin, Orson, Marietta, Minn. Manure spreader. No. 1,433,175; Oct. 24.
- Buckman, Henry H., Jacksonville, Fla. Titanium complexes and producing same. No. 1,402,256; Jan. 3.
- Buckman, Henry H., Jacksonville, Fla. Titanium complex and producing same. No. 1,410,056; Mar. 21.
- Buckman, Henry H., Jacksonville, Fla. Pigment and producing same. No. 1,411,839; Apr. 4.
- Buckman, Henry H., Jacksonville, Fla. Titanium complex and producing same. No. 1,429,841; Sept. 19.
- Buckman, Henry H., Jacksonville, Fla., and G. A. Pritchard, New York, N. Y., assignors to Buckman & Pritchard, Inc., Jacksonville, Fla. Highly-refractory article. No. 1,412,916; Apr. 18.
- Buckman & Pritchard, Inc. (See Buckman, H. H., and Pritchard, assignors.)
- Buckminster, Ira C. (See Hadaway, J. B., and Buckminster.)
- Buckminster, Ira C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Controlling mechanism for work-positioning means. No. 1,404,190; Jan. 24.
- Buckminster, Ira C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Coating apparatus. No. 1,407,729; Feb. 28.
- Buckminster, Ira C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Mechanical movement. No. 1,408,439; Mar. 7.
- Bucknam, Barton K., et al. (See Johnson, William A., assignor.)
- Bucknam, Richard L., et al. (See Johnson, William A., assignor.)
- Bucknam, Worthly C., Jersey City, N. J., assignor, by mesne assignments, to Air Reduction Company, Incorporated, New York, N. Y. Pressure regulator. No. 1,427,191; Aug. 29.
- Buckner, Ephraim E., Owosso, assignor of one-fourth to C. Schossow, Saginaw, Mich. Cutting block. No. 1,404,831; Jan. 31.
- Bucksens, Walter L., Oakland, Calif. Tire-changing device. No. 1,408,928; Mar. 7.
- Buckwalter, John T., Lancaster, and F. T. Flinchbaugh, York, Pa.; said Flinchbaugh assignor to said Buckwalter. Valve for milking machines. No. 1,416,166; May 16.
- Buckwalter, Leon G.; (See Hutchinson, Morton C., assignor.)
- Buckwalter, Leon G., et al. (See Parker, Arthur, assignor.)
- Buckwalter, Tracy V., assignor to The Timken Roller Bearing Company, Canton, Ohio. Axle construction and assembling same. No. 1,409,133; Mar. 7.
- Buckwalter, Tracy V., assignor to Timken Roller Bearing Company, Canton, Ohio. Process and apparatus for making bearing rolls. No. 1,419,611; June 13.
- Buckwalter, Tracy V., assignor to Timken Roller Bearing Company, Canton, Ohio. Antifriction bearing. No. 1,437,833; Dec. 5.
- Buckwalter, Tracy V., assignor to Timken Roller Bearing Company, Canton, Ohio. Bearing. No. 1,437,834; Dec. 5.
- Buckwalter, Tracy V., assignor to The Timken Roller Bearing Company, Canton, Ohio. Antifriction bearing. No. 1,439,401; Dec. 19.
- Buckwalter, Tracy V., assignor to The Timken Roller Bearing Company, Canton, Ohio. Shaft bearing. No. 1,439,402; Dec. 19.
- Bucyrus Company. (See Ferris, W., and Bager, assignors.)
- Bucyrus Company. (See Ferris, Walter, assignor.)
- Bucyrus Company. (See Gage, Clarence E., assignor.)
- Buda, Andrew, Hamilton, Ontario, Canada. Bed. No. 1,411,986; Apr. 4.
- Buda Company. (See Broege, Robert J., assignor.)
- Budd, Edward G., Manufacturing Company. (See Budd, E. G., and Ledwinka, assignors.)
- Budd, Edward G., Manufacturing Company. (See Fry, Walter L., assignor.)
- Budd, Edward G., Manufacturing Company. (See Ledwinka, Joseph, assignor.)
- Budd, Edward G., Manufacturing Company. (See Maise, Herman C., assignor.)
- Budd, Edward G., Manufacturing Company. (See Weaver, Clayton B., assignor.)
- Budd, Edward G., assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Making wheel disks. No. 1,421,667; July 4.
- Budd, Edward G., assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Wire-spoked wheel. No. 1,424,554; Aug. 1.
- Budd, Edward G., and J. Ledwinka, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Annealing metal. No. 1,427,753; Aug. 29.
- Budd, Horace, Philadelphia, Pa. Grate bar. No. 1,429,486; Sept. 19.
- Budd, Isaac D., C. I. Cronburg, Chicago, and F. S. Hurd, Oak Park, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Electromechanical switching system. No. 1,411,478; Apr. 4.
- Budd, Lester, Philadelphia, Pa. Adjustable air-shutter construction for furnaces. No. 1,407,516; Feb. 21.
- Budd Wheel Company. (See Budd, Edward G., assignor.)
- Budd Wheel Company. (See Fine, Lewis, assignor.)
- Budd Wheel Company. (See Ibach, Emil, assignor.)
- Budd Wheel Company. (See Ledwinka, Joseph, assignor.)
- Budd Wheel Company. (See Schenck, C., and Fine, assignors.)
- Budd Wheel Company. (See Schenck, Charles, assignor.)
- Budde, William, assignor of one-half to G. E. Pfeiffer, Brooklyn, N. Y. Clothesline attachment. No. 1,420,178; June 20.
- Buddle, George T., Chicago, Ill. Fish lure. No. 1,418,229; May 30.
- Budig, Friedrich W., Falkenberg-Grunau, near Berlin, Germany. Flying machine. No. 1,419,447; June 13.
- Budin, Richard B., Brooklyn, N. Y. Toy. No. 1,424,982; Aug. 8.
- Budlong, Emma I., executrix. (See Budlong, Wilbur F.)
- Budlong, Wilbur F., deceased, by I. Budlong, executrix, assignor to Campbell & Budlong Machine Works, San Jose, Calif. Deep-well pump. No. 1,429,487; Sept. 19.
- Buecher, Jacob. (See Merkel, H., and Buecher.)
- Buechman, Frederick C., Brooklyn, N. Y. Chart support for recording instruments. No. 1,415,306; May 9.
- Buedingen, William L., Milwaukee, Wis. Box-tray support. No. 1,422,028; July 4.
- Buedingen, William L., Milwaukee, Wis. Tray support for boxes. No. 1,428,500; Sept. 5.
- Buehle, Erich, San Francisco, and E. C. Hutchinson, Oakland, assignors to Pelton Water Wheel Co., San Francisco, Calif. Safety control for hydraulic pipe lines. No. 1,421,904; July 4.
- Buehler, Louis E. G., Chicago, Ill. Speed-reduction gear. No. 1,408,689; Mar. 7.
- Buell, William C., Jr., Osborne Borough, and W. H. Scheib, Pittsburgh, assignors to Tate-Jones & Co., Inc., Pittsburgh, Pa. Hydrocarbon blast burner. No. 1,404,429; Jan. 24.
- Buente, Charles F., Avalon, Pa. Mold for making concrete articles. No. 1,431,565; Oct. 10.
- Buesch, William O. (See Bardill, Paul H., assignor.)
- Bufe, Otto, Grand Marais, Mich. Autosleigh attachment. No. 1,425,835; Aug. 15.
- Buff, Isador J., Cadogan, Pa. Rail joint. No. 1,406,533; Feb. 14.
- Buffalo Equipment & Construction Company. (See Sweet, Roger J., assignor.)
- Buffalo Forge Company. (See Day, Arthur A., assignor.)
- Buffalo Forge Company. (See Zimmer, Gustav H., assignor.)
- Buffalo Foundry & Machine Co. (See Engel, Godfrey, Sr., assignor.)
- Buffalo Foundry & Machine Company. (See Sleeper, Oliver S., assignor.)
- Buffalo Sled Company, The. (See Dekker, John E., assignor.)
- Buffalo Specialty Company. (See Shickluna, Joseph J., assignor.)
- Buffalo-Springfield Roller Company, The. (See Aitken, Andrew W., assignor.)
- Buffington, Harriet G., Old Saybrook, Conn. Shield for stoves. No. 1,440,336; Dec. 26.

- Bufford, George W., Buffalo, assignor to J. H. Williams & Company, Brooklyn, N. Y. Chain pipe wrench. No. 1,416,685; May 23.
- Buffum, Frank W. (See Price, Stephen C., assignor.)
- Buften, Frank H. (See Ott, H. N., and Buften.)
- Bugbee, Lucian W., Indianapolis, Ind. Bifocal lens. No. 1,427,577; Aug. 29.
- Bugbee, Lucian W., assignor to One-piece Bifocal Lens Company, Indianapolis, Ind. Means for polishing multifocal lenses. No. 1,406,927; Feb. 14.
- Bugbee, Lucian W., assignor to One-piece Bifocal Lens Company, Indianapolis, Ind. Making bifocal lenses. No. 1,410,367; Mar. 21.
- Bugbee, Lucian W., assignor to One-piece Bifocal Lens Company, Indianapolis, Ind. Toric-lens series and making same. No. 1,426,146; Aug. 15.
- Bugbee, Lucian W., assignor to One-piece Bifocal Lens Company, Indianapolis, Ind. Toric-lens series and making same. No. 1,426,147; Aug. 15.
- Bugbee, Lucian W., assignor to One-piece Bifocal Lens Company, Indianapolis, Ind. Toric-lens series and making the same. No. 1,426,148; Aug. 15.
- Bugbee, Lucian W., assignor to One-piece Bifocal Lens Company, Indianapolis, Ind. Trifocal lens and making the same. No. 1,427,192; Aug. 29.
- Bugbee, Lucian W., Indianapolis, Ind., assignor to American Optical Company, Southbridge, Mass. Protractor. No. 1,408,339; Feb. 28.
- Bugbee, Lucian W., assignor to American Optical Company, Southbridge, Mass. Bright and black goggles. No. 1,420,964; June 27.
- Bugbee, Lucian W., assignor, by mesne assignments, to Twinsight Optical Company, Indianapolis, Ind. Making bifocal lenses. No. 1,416,444; May 16.
- Bugbee, Lucian W., and R. L. Gordon, assignors to American Optical Company, Southbridge, Mass. Lens-grinding machine. No. 1,439,063; Dec. 19.
- Bugbee & Niles Company. (See King Rufus, assignor.)
- Bueghagen, George H., Minot, N. Dak. Radiator valve. No. 1,417,592; May 30.
- Buhl Stamping Company. (See Iahman, Duncan J., assignor.)
- Buhoup, Harry C., Chicago, Ill., assignor to The McConway & Torley Company, Pittsburgh, Pa. Means for detachably connecting adjacent members. No. 1,402,566; Jan. 3.
- Buhr, Joseph F., Detroit, Mich. Drill head for drilling machines. No. 1,428,002; Sept. 5.
- Buis, William A., Boise, Idaho. Shock absorber. No. 1,436,147; Nov. 21.
- Buitrago, Rafael D., New York, N. Y. Suction duster. No. 1,423,993; July 25.
- Bukachek, Frank, and O. A. Garbush, Pine City, Minn.; said Bukachek assignor to said Garbush. Glass-cutting board. No. 1,438,157; Dec. 5.
- Buley, Olga E., London, England. Hair slide. No. 1,423,644; July 25.
- Bulgach, John, Union City, Conn. Safety box. No. 1,402,209; Jan. 3.
- Bulinski, Antoni, Aberdeen, Wash. Marine table. No. 1,438,020; Dec. 5.
- Bulister, Martin, Pittsburgh, Pa. Movable-block puzzle. No. 1,415,625; May 9.
- Bulka, Michael, Gardner, Mass., assignor to Astronomical Clock Manufacturing Company, Chicago, Ill. Astronomical clock. No. 1,416,605; May 16.
- Bull, Anders, Chicago, Ill. Alarm clock. No. 1,439,064; Dec. 19.
- Bull, Arthur A., assignor to General Motors Corporation, Detroit, Mich. Cooling-jacket construction for internal-combustion engines. No. 1,434,348; Oct. 31.
- Bull, George F., assignor of one-half to Charles H. Pugh Limited, Birmingham, England. Lawn mower and the like. No. 1,416,784; May 23.
- Bull, George F., assignor of one-half to Charles H. Pugh Limited, Birmingham, England. Power-driven lawn mower, roller, and the like. No. 1,419,916; June 20.
- Bull, Walter H., Coburg, Melbourne, Victoria, Australia. Bulk storage and handling of grain. No. 1,406,928; Feb. 14.
- Bullard, Charles M., Appleton, Wis. Purification of sulphur dioxide. No. 1,410,535; Mar. 21.
- Bullard, Edward P., Jr., assignor to The Bullard Machine Tool Co., Bridgeport, Conn. Hand-operating means for boring mills. No. 1,410,450; Mar. 21.
- Bullard, Edward P., Jr., Bridgeport, Conn., assignor to National Tube Company, Pittsburgh, Pa. Tapping tool for coupling finishing machines. No. 1,436,752; Nov. 28.
- Bullard, Edwin W., Whitneville, assignor to The Peck, Stow & Wilcox Company, Southington, Conn. Ratchet mechanism. No. 1,416,316; May 16.
- Bullard, Frederick H., Springfield, Mass. Plier-joint construction. No. 1,428,357; Sept. 5.
- Bullard, Joseph W. C. (See Bullard, Stanley H. and J. W. C.)
- Bullard, Lester H., San Leandro, Calif. Selective coupling. No. 1,422,536; July 11.
- Bullard Machine Tool Co., The. (See Bullard, Edward P., Jr., assignor.)
- Bullard Machine Tool Company, The. (See Bullard, Stanley H. and J. W. C., assignors.)
- Bullard, Stanley H. and J. W. C., assignors to The Bullard Machine Tool Company, Bridgeport, Conn. Multicutting bar. No. 1,410,451; Mar. 21.
- Bullard, Thomas G., Enterprise, Ala. Stop motion for spinning frames. No. 1,403,386; Jan. 10.
- Bullen, Robert J. (See May, E., Jr., Bullen, and Voight.)
- Buller, Charles M., assignor to L. J. Mueller Furnace Company, Milwaukee, Wis. Pipeless furnace. No. 1,422,828; July 18.
- Buller, Charles M., assignor to L. J. Mueller Furnace Company, Milwaukee, Wis. Pipeless furnace. No. 1,439,538; Dec. 19.
- Bulley, George W. (See Johnston, Y. F., and Bulley.)
- Bulley, George W., St. Joseph, Mich. Continuous vulcanizing method and apparatus. No. 1,411,706; Apr. 4.
- Bulley, Louis T., assignor to C. Cowles & Company, New Haven, Conn. Window regulator. No. 1,430,793; Oct. 3.
- Bullinger, Frederic H., Yonkers, N. Y., assignor to Ward Leonard Electric Company. Resistance unit and making. No. 1,404,267; Jan. 24.
- Bullinger, Frederic H., Yonkers, N. Y., assignor to Ward Leonard Electric Company. Electric controlling apparatus. No. 1,423,907; July 25.
- Bullington, James W. (See Parsons, E. B., and Bullington.)
- Bullington, John D. (See Westmoreland, J. P., and Bullington.)
- Bullock, Ambrose R., Boston, Mass. Filing cabinet. No. 1,415,307; May 9.
- Bullock, Charles F. (See Mapelsden, H. H., and Bullock.)
- Bullock, George, Grand Junction, Colo. Roll-paper controller. No. 1,434,040; Oct. 31.
- Bullock, George L., Louisville, Ky. Repeating attachment for sound-reproducing machines. No. 1,405,751; Feb. 7.
- Bullock, Percy W. (See Handley, George, assignor.)
- Bullock, Samuel A., Plandome, assignor to Ally Company, Inc., New York, N. Y. Rust-preventive composition. No. 1,404,511; Jan. 24.
- Bullock, Thomas H., assignor to R. B. Cressman, New York, N. Y. Lighting fixture. No. 1,434,676; Nov. 7.
- Bullôt, Louis F., Sydney, New South Wales, Australia. Apparatus for the preservation of meat and other alimentary substances. No. 1,414,859; May 2.
- Bullum, Steve, and W. O. Maxwell, Los Angeles, Calif. Spudding jack. No. 1,409,438; Mar. 14.
- Bullwinkel, Edward J. (See Shaw, Louis E., assignor.)
- Bulman, Elvah O., Grand Rapids, Mich. Bag holder. No. 1,422,659; July 11.
- Bulski, Andrew, assignor of one-half to P. J. Quinn and one-fourth to S. Sullivan, Newton, Mass. Horseshoe calk. No. 1,424,800; Aug. 8.
- Bültmann, August F. E., Dresden, Germany. Connecting the parts of line insulators. No. 1,440,003; Dec. 26.
- Bumbaugh, Albert A., Warsaw, Ind. Horseshoe. No. 1,403,387; Jan. 10.
- Bumbaugh, George L., assignor to G. B. Schley, trustee for said Bumbaugh and W. B. Paul, Indianapolis, Ind. Disabler for aeroplane controllers. No. 1,412,771; Apr. 11.
- Bumbaugh, Harold L., Stanford University, Calif. Vaporizer. No. 1,402,715; Jan. 3.
- Bumbera, John J., et al. (See Kehr, John F., assignor.)
- Bumgardner, Dayton, Chicago, Ill. Dental vibratory apparatus. No. 1,436,647; Nov. 28.
- Bummara, Antonino, and S. Ragonesi, New York, N. Y. Coating composition for imitating bark of trees. No. 1,413,002; Apr. 18.
- Bump, George P., La Crosse, Wis. Loop-forming terminal clamp. No. 1,422,660; July 11.
- Bumpass, Leonard E., Dallas, Tex. Lock-protecting device. No. 1,413,573; Apr. 25.
- Bumstead, Ralph W., Brookline, Mass. Computing machine. No. 1,414,978; May 2.
- Bumstead, Trowbridge H., Ontario, Calif. Semiautomatic motor-vehicle warning signal. No. 1,433,119; Oct. 24.
- Bunch, Charles H., assignor to The Acme Electric & Mfg. Co., Cleveland, Ohio. Motor generator. No. 1,405,965; Feb. 7.
- Bunch, Lisle K., South Bend, Ind. Foot corrector. No. 1,402,834; Jan. 10.
- Bunde, William, Rochester, N. Y. Scooter car. No. 1,423,994; July 25.
- Bundrick, David D., assignor to Moore Dry Kiln Co., Jacksonville, Fla. Instrument for determining temperature and humidity, and more particularly of dry kilns. No. 1,430,937; Oct. 3.
- Bundy, Harry W., Detroit, Mich. Tubing. No. 1,431,368; Oct. 10.
- Bungay, George W., Brooklyn, N. Y., assignor to Acme Die Casting Corporation. Feeding device for die-casting machines. No. 1,416,261; May 16.
- Bungay, George W., Brooklyn, N. Y., assignor, by mesne assignments, to Aluminum Casting Corporation, Garwood, N. J. Forming cast articles. No. 1,438,933; Dec. 12.
- Bunk, Christian, and H. F. Kuechler, Kenosha, Wis. Vessel-salvaging apparatus. No. 1,405,895; Feb. 7.
- Bunker, Arthur C., Schenectady, N. Y. Lateral-motion driving box. No. 1,431,720; Oct. 10.
- Bunker, Carey E., Oregon, Mo. Caster. No. 1,429,187; Sept. 12.
- Bunker, Darius W., Brookline, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-breasting machine. No. 1,426,354; Aug. 22.
- Bunker, Gerald L., La Grange, Ill. Vehicle wheel. No. 1,410,452; Mar. 21.

Alphabetical list of patentees—Continued.

- Bunker, Herbert H., assignor to Kerlow Steel Flooring Co., Jersey City, N. J. Multiple-die machine. No. 1,438,295; Dec. 12.
- Bunnell, Arthur C., et al. (See Parsons, John H., assignor.)
- Bunnell, Harry C., Westport, N. Y. Convertible chair. No. 1,423,995; July 25.
- Bunting, Theodore R., Norfolk, Va. Radiotransmitting system. No. 1,418,066; May 30.
- Bunyan, Henry H., et al. (See Baker, Frederick, assignor.)
- Bunzel, Ernest, Plymouth Meeting, Pa. Demountable rim. No. 1,431,150; Oct. 10.
- Buob, Louis J., assignor to Buob and Scheu, Cincinnati, Ohio. Automobile body curtain. No. 1,439,142; Dec. 19.
- Buob and Scheu. (See Buob, Louis J., assignor.)
- Luornat, William, Utica, N. Y. Figure toy. No. 1,414,501; May 2.
- Buratti, Romolo, Croce Mosso, Italy. Chlorine derivatives of hexamethylenetetramine. No. 1,416,606; May 16.
- Burbank, Ralph N., Somerset, Mass. Ship-centering device. No. 1,407,375; Feb. 21.
- Burbery, Walter J., Los Angeles, Calif. Fastener. No. 1,428,358; Sept. 5.
- Burby, Arthur F. (See Roberts, A. O., O'Keefe, and Burby.)
- Burch, Frederick R., Seattle, Wash., assignor to Armstead Snow Motors, Incorporated, New York, N. Y. Snow motor vehicle. No. 1,431,440; Oct. 10.
- Burch, George B., New York, N. Y., assignor to L. Stevens, Glen Ridge, N. J. Acoustic device. No. 1,414,801; May 2.
- Burch, George B., New York, N. Y., assignor to L. Stevens, Glen Ridge, N. J. Phonograph. No. 1,414,802; May 2.
- Burch, George B., New York, N. Y., assignor to L. Stevens, Glen Ridge, N. J. Phonograph reproducer. No. 1,414,803; May 2.
- Burch, George B., New York, N. Y., assignor to L. Stevens, Glen Ridge, N. J. Phonograph. No. 1,414,804; May 2.
- Burch, Henry K., Warren, Ariz. Revolving screen or grizzly. No. 1,420,685; June 27.
- Burchard, Edith R. C., Little Compton, R. I. Robe for children's gacarts and invalid chairs. No. 1,423,908; July 13.
- Burchess, Charles L., assignor of one-half to H. M. Dirks, Lincoln, Nebr. Christmas-tree support. No. 1,421,398; July 4.
- Burchett, Walter J., East Orange, N. J., assignor, by mesne assignments, to H. E. Comings. Lever adjustment. No. 1,409,922; Mar. 21.
- Burck, John H., Albany, N. Y. Fruit-jar opener. No. 1,407,632; Feb. 21.
- Burck, Lawrence B. (See Brown, A. F., and Burck.)
- Burckard, Albert, Brooklyn, N. Y., assignor to Pathe Freres Phonograph Company. Press for making plastic products. No. 1,436,941; Nov. 28.
- Burckhardt, Rodolphe W., Mulhouse, France. Device for effecting the mixing of gaseous strata. No. 1,419,216; June 13.
- Burd, Charles. (See Burd, George and C.)
- Burd, Edward, Chicago, Ill. Sheet-straightening device. No. 1,431,096; Oct. 3.
- Burd, George and C., Detroit, Mich. Pump. No. 1,416,445; May 16.
- Burd High Compression Ring Company. (See Olson, Herbert O., assignor.)
- Burd High Compression Ring Company. (See Winquist, Victor, assignor.)
- Burden, Joseph T., London, England. Case for clinical thermometers. No. 1,416,785; May 23.
- Burdett, John B., Glencoe, assignor to Burdett Manufacturing Company, Chicago, Ill. Valve. No. 1,432,527; Oct. 17.
- Burdett, John B., Glencoe, assignor to Burdett Manufacturing Company, Chicago, Ill. Welding torch. No. 1,432,528; Oct. 17.
- Burdett Manufacturing Company. (See Burdett, John B., assignor.)
- Burdette, Richard S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Air bag and constructing the same. No. 1,412,799; Apr. 11.
- Burdette, Robert T., Chicago, Ill. Metal railway tie. No. 1,416,686; May 23.
- Burdick, Alfred S., and E. B. Vliet, assignors to The Abbott Laboratories, Chicago, Ill. Benzyl ester of acetylsalicylic acid. No. 1,436,304; Nov. 21.
- Burdick Cabinet Company. (See Anderson, Fritz A., assignor.)
- Burdick, Charles A., Kenosha, Wis. Pencil sharpener. No. 1,421,063; June 27.
- Burdick, Charles L. (See Noyes, A. A., and Burdick.)
- Burdick, Fred F., Milton, Wis. Therapy lamp. No. 1,430,354; Sept. 26.
- Burdick, Fred F., and F. A. Anderson, Milton, Wis. Therapeutic vapor-lamp appliance. No. 1,402,396; Jan. 3.
- Burdick, Paul H., Geneva, Ill. Typewriting machine. No. 1,430,284; Sept. 26.
- Burdon, William M., assignor to Burdons Limited, Bellshill, Scotland. Apparatus for the liquid-fuel firing of steam boilers. No. 1,423,183; July 18.
- Burdons Limited. (See Burdon, William M., assignor.)
- Buresch, Edward G., Chicago, Ill. Electric switch. No. 1,433,120; Oct. 24.
- Burford, Oliver L., and H. De Bardeleben, Ensley, Ala. Winding shaft and chain guard for dump cars. No. 1,423,752; July 25.
- Burger, Alfred, Brooklyn, N. Y. Filter press. No. 1,409,281; Mar. 14.
- Burger, Jacob D., New York, N. Y., assignor to Reiss-Premier Pipe Company, Chicago, Ill. Combined shipping package and display rack for smoking pipes. No. 1,436,337; Nov. 21.
- Burgess, Andrew O., Newark, N. J., assignor to A. L. Newman Company, Providence, R. I. Making composite rings. No. 1,415,520; May 9.
- Burgess Battery Company. (See Burgess, Charles F., assignor.)
- Burgess Battery Company. (See Schulte, Walter B., assignor.)
- Burgess, C. F., Laboratories. (See Weiss, Howard F., assignor.) (Reissue.)
- Burgess, Charles E. (See Eldridge, J. E., W. B. and C. E. Burgess, and Ashbee.)
- Burgess, Charles F., assignor to Burgess Battery Company, Madison, Wis. Battery hand lamp. No. 1,403,538; Jan. 17.
- Burgess, Charles F., assignor to Burgess Battery Company, Madison, Wis. Battery hand lamp. No. 1,421,399; July 4.
- Burgess Company, The. (See Burgess, Yorke, assignor.)
- Burgess, Edward W. (See Smith R. S., and Burgess.)
- Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Power-lift mower. No. 1,404,431; Jan. 24.
- Burgess, George F. (See Burgess, John W. and G. F.)
- Burgess, Harry A., assignor to Romine Manufacturing Co., Goodland, Ind. Portable gate. No. 1,419,013; June 6.
- Burgess, James H., Port Angeles, assignor of one-half to C. M. Clayton, Seattle, Wash. Mineral-classifying device. No. 1,424,339; Aug. 1.
- Burgess, John W., Kansas City, Mo. Garment. No. 1,410,648; Mar. 28.
- Burgess, John W. and G. F., Kansas City, Mo. Inner-tube cushion. No. 1,407,730; Feb. 28.
- Burgess, Louis, Bayonne, N. J. Production of beryllium compounds. No. 1,418,527; June 6.
- Burgess, Louis, Bayonne, N. J. Production of zirconium compounds. No. 1,418,528; June 6.
- Burgess, Louis, assignor to Standard Oil Company, New York, N. Y. Production of anhydrous aluminum chloride. No. 1,405,183; Jan. 31.
- Burgess, Omar A., Puyallup, Wash. Amalgamator. No. 1,412,673; Apr. 11.
- Burgess, Robert. (See Jones, Joseph H., assignor.)
- Burgess, Thomas, Danvers, Mass. Convertible toy horse. No. 1,431,214; Oct. 10.
- Burgess, Walter S. (See Voigt, George F., assignor.)
- Burgess, William B. (See Eldridge, J. E., Burgess, W. B. and C. E., and Ashbee.)
- Burgess, Yorke, Chicago, Ill., assignor to H. M. Loudon, Kansas City, Mo. Automatic system for stopping trains. No. 1,411,078; Mar. 28.
- Burgess, Yorke, Chicago, Ill., assignor to The Burgess Company. Envelope. No. 1,420,470; June 20.
- Burghardt, Oscar. (See Bratcher, I., and Burghardt.)
- Burghart, Lloyd M., Govans, Md., assignor to U. S. Industrial Alcohol Co. Recovering volatile organic acids from distillery waste. No. 1,426,457; Aug. 22.
- Burgher, Fred H., Lakewood, assignor to The Marvel Company, Cleveland, Ohio. Suction sweeper. No. 1,404,699; Jan. 24.
- Burgi, Herman, Springfield, Mass., assignor of one-half to C. H. Tenney, Hartford, Conn. Means for distributing the combustion of gases. No. 1,433,778; Oct. 31.
- Burgoine, Sidney F. (See Field, H. F., and Burgoine.)
- Burgoon, Oliver E., Toledo, Ohio. Shock absorber. No. 1,424,983; Aug. 8.
- Burgstaller, Mathias, Cleveland, Ohio. Gas burner. No. 1,426,815; Aug. 22.
- Burhen, Reinhard J., assignor of one-half to W. P. Riester, St. Louis, Mo. Screen frame. No. 1,436,858; Nov. 28.
- Burk, Milton H., and Edith M. Currier, St. Joseph, Mich. Manicuring instruments. No. 1,424,876; Aug. 8.
- Burkart, Augustin, Bern, Switzerland. Fire box. No. 1,432,835; Oct. 24.
- Burkart, Francis, assignor of two-eighths to J. C. Halstead and E. P. Brackney, Brookston, Ind. Can feeder. No. 1,408,861; Mar. 7.
- Burke, Charles R., assignor to L. P. Burke, Pittsburgh, Pa. Producing light hydrocarbons. No. 1,426,149; Aug. 15.
- Burke, Claton E., assignor to B. B. Specialty Company, Minneapolis, Minn. Mop holder. No. 1,407,123; Feb. 21.
- Burke, Claton E., and G. R. Beckwith, assignors to B. B. Specialty Co., Minneapolis, Minn. Mop-wringer pail. No. 1,407,122; Feb. 21.
- Burke Electric Company. (See Bennett, A. M. Elliott, and O'Brien, assignors.)
- Burke Electric Company. (See Burke, James, assignor.)
- Burke Electric Company. (See Caldwell, F. S., and Bennett, assignors.)
- Burke Electric Company. (See Elliott, W. B., and O'Brien, assignors.)

- Burke, Henry B., Windber, Pa. Anticreeping and anti-spreading device for rails. No. 1,433,066; Oct. 24.
- Burke, James, Erie, Pa., assignor to Burke Electric Company. Rotor spider. No. 1,422,414; July 11.
- Burke, James, assignor to Burke Electric Company, Erie, Pa. Air-cooled transformer. No. 1,427,783; Sept. 5.
- Burke, James P., Arlington, N. J. Shock absorber. No. 1,432,529; Oct. 17.
- Burke, John H., San Jose, and O. A. Wilming, San Luis Obispo, Calif. Chuck. No. 1,402,144; Jan. 3.
- Burke, Lawrence, Jr., Rock Island, Ill. Toy. No. 1,405,752; Feb. 7.
- Burke, Lee F., Detroit, Mich. Inner-tube tester for pneumatic tires. No. 1,436,695; Nov. 28.
- Burke, Lulu P. (See Burke, Charles R., assignor.)
- Burke, Matt, West Duluth, Minn. Oiling device. No. 1,428,751; Sept. 12.
- Burke, Paul, Green Bay, Wis., assignor, by mesne assignments, to Northwest Engineering Company. Control means for locomotive cranes. No. 1,422,082; July 11.
- Burke, Peter J., Meshanticut Park, assignor to Atlantic Tubing Company, Providence, R. I. Device for forming coupling ends for gas and flexible metal tubing. No. 1,426,037; Aug. 15.
- Burke, Peter W., and A. J. Breeding, assignors of one-third to F. Rogers, Bremerton, Wash. Oiling device. No. 1,423,077; July 18.
- Burke, Wilbur B., Cleveland, Ohio. Making tires. No. 1,422,537; July 11.
- Burke, Wilfred I. (See Cornock, William A., assignor.)
- Burke, William J., et al. (See Clausung, George, assignor.)
- Burkel, Matthew J., Aurora, Ill. Air-inlet-valve mechanism for pneumatic tools. No. 1,417,186; May 23.
- Burkey, Harvey M., Plainfield, N. J., and H. M. Schleicher, Boston, Mass., assignors to American Metal Company, Ltd., New York, N. Y. Decomposition of aluminum sulphate. No. 1,415,308; May 9.
- Burkhardt, Frederick A., New York, N. Y. Scale. No. 1,408,264; Feb. 28.
- Burkhardt, Curt R. (See Scharwath, J. A., and Burkhardt.)
- Burkhardt, Jacob R., assignor to The Springfield Metallic Casket Company, Springfield, Ohio. Grave vault. No. 1,417,137; May 23.
- Burkhardt, Jacob R., assignor to The Springfield Metallic Casket Company, Springfield, Ohio. Means for securing caskets in shipping boxes. No. 1,426,355; Aug. 22.
- Burkhart, Ralph R., assignor of one-fourth to J. B. Clark, Spokane, Wash. Clutch-pedal lock. No. 1,417,138; May 23.
- Burkholder, Allen B., Flint, Mich. Roller bearing. No. 1,426,038; Aug. 15.
- Burks, Dana, Venice, H. A. Bardeen and F. W. Harris, Los Angeles, Calif.; said Bardeen and Harris assignors to said Burks. Apparatus for pumping oil wells. No. 1,433,871; Oct. 31.
- Burlew, Gilderoy O., Newark, N. J. Dentrifical tablet. No. 1,411,681; Apr. 4.
- Burlin, Adolph L., Chorlton-on-Medlock, Manchester, England. Manufacture of pulp for paper, cardboard, artificial leather, and the like from peat. No. 1,420,303; June 20.
- Burlin, Porter H., Limestone, N. Y. Coupling device for oil wells. No. 1,415,788; May 9.
- Burlingame, Albert C., assignor of one-third to D. A. Frerichs and one-third to A. Larson, Minneapolis, Minn. Collapsible fruit-jar holder. No. 1,429,675; Sept. 19.
- Burlingame, Gayle, Columbia, Pa. Mop. No. 1,402,047; Jan. 3.
- Burlock, James C., New York, N. Y. Pedal pad. No. 1,439,065; Dec. 19.
- Burman, Olof S., Minneapolis, Minn. Faucet-supporting anchor and bracket. No. 1,410,368; Mar. 21.
- Burman, Olof S., Minneapolis, Minn. Laundry-tray faucet. No. 1,439,792; Dec. 26.
- Burmeister, George J. (See Brodowski, J. F., and Burmeister.)
- Burmeister, John, Alameda, Calif. White dressing for shoes and other articles of leather and cloth. No. 1,432,440; Oct. 17.
- Burnam, Allen, assignor of one-half to C. M. Hocker, San Antonio, Tex. Air pump. No. 1,414,621; May 2.
- Burne, Edward L., Westminster, London, England. Means for regulating the speed of windmotors. No. 1,403,069; Jan. 10.
- Burnell, Louis R., Saginaw, Mich. Combination tool. No. 1,418,529; June 6.
- Burner, William L. (See Cotton, J. H., and Burner.)
- Burnes, Julius P. (See Mahon, T. C., and Burnes.)
- Burnet, Edward, London, England. Bottle and like closing device. No. 1,431,871; Oct. 10.
- Burnett, Alexander S., Reddish, England. Machine tool. No. 1,419,812; June 13.
- Burnett, Arthur A., and V. L. Darrow, Racine, Wis. Rubber knee pad. No. 1,434,808; Nov. 7.
- Burnett, Charley, Washington Court House, Ohio. Roof construction. No. 1,405,966; Feb. 7.
- Burnett, Charley, Washington Court House, Ohio. Building construction. No. 1,407,250; Feb. 21.
- Burnett, Elizabeth L., Boston, Mass. Carbon paper. No. 1,419,217; June 13.
- Burnett, Frances H., et al., executors. (See Fahnestock, Ernest B.)
- Burnett, Ira A., Chicago, Ill. Alloy mixer. No. 1,413,651; Apr. 25.
- Burnett, Jett G. K., Paducah, Tex. Capsule-box container. No. 1,436,475; Nov. 21.
- Burnett, Milo O., Marengo, Iowa. Smoker's steering-wheel attachment. No. 1,432,015; Oct. 17.
- Burnett, Richard W., Chicago, Ill. Reversible-strut brake beam. No. 1,405,665; Feb. 7.
- Burnette, Walter W. H., Fillmore, assignor of one-half to R. F. Fitz, Los Angeles, Calif. Automatic sucker-rod elevator. No. 1,427,675; Aug. 29.
- Burnham, Abel W., Amboy, Ill. Attachment for hayforks. No. 1,439,603; Dec. 19.
- Burnham, Chester H., North Andover, Mass. Mouth-piece. No. 1,404,008; Jan. 17.
- Burnham, Clifford L., Chicago, Ill. Indicating and man-hole-locking safety valve for tank cars. No. 1,418,530; June 6.
- Burnham, Daniel H., Evanston, Ill. Building construction. No. 1,404,926; Jan. 31.
- Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. Time-limit relay. No. 1,402,048; Jan. 3.
- Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. Renewable fuse. No. 1,404,576; Jan. 24.
- Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. Electric switch. No. 1,409,997; Mar. 21.
- Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. Electric switch. No. 1,413,156; Apr. 18.
- Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. Motor-starting device. No. 1,415,521; May 9.
- Burnham, George A., Saugus, assignor to S. B. Condit, Brookline, Mass. Electric service switch. No. 1,429,275; Sept. 19.
- Burnham, George B., Borosolvay, Calif. Recovering sodium carbonate sulphate from saline waters. No. 1,417,139; May 23.
- Burnham, George B., Glendale, Calif. Recovering valuable components in a liquid phase. No. 1,424,447; Aug. 1.
- Burnham, Joseph L., Schenectady, N. Y., assignor to General Electric Company. Arc barrier for dynamo-electric machines. No. 1,423,996; July 25.
- Burnham, Maye G., et al. (See Scott, Joseph H., assignor.)
- Burnham, Robert C., Richland Center, Wis. Vending machine. No. 1,424,150; Aug. 1.
- Burns, Albert M., Cupey, Cuba, assignor to Fulton Iron Works Company, St. Louis, Mo. Safety device for endless conveyers. No. 1,437,718; Dec. 5.
- Burns, Anthony J., assignor, by mesne assignments, to Burns-Pollock Electric Manufacturing Company, Indiana Harbor, Ind. Combined lamp and phonograph. No. 1,438,631; Dec. 12.
- Burns, Bartholomew P., Chicago, Ill. Adjustable back rest. No. 1,409,662; Mar. 14.
- Burns, Charles C. (See Morris, Edward B., assignor.)
- Burns, David E., assignor of one-half to H. J. McKinley, Grand Rapids, Mich. Road scraper. No. 1,429,125; Sept. 12.
- Burns, Dawson J., Bronxville, N. Y., assignor to Ward Leonard Electric Company. Electrical controlling device. No. 1,416,446; May 16.
- Burns, Edward A., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,428,213; Sept. 5.
- Burns, Elmer Z., Madison, N. J., and G. Kellner, New York, N. Y. Automatic draft controller. No. 1,433,446; Oct. 24.
- Burns, Frances E. (See Burns, Joseph J., assignor.)
- Burns, Frank, Westfield, N. Y. Hinge. No. 1,409,663; Mar. 14.
- Burns, Frank L., Three Rivers, Mich. Vehicle top curtain. No. 1,421,400; July 4.
- Burns, Frank L., and E. J. Tessin, Three Rivers, Mich. Wire or cable coupling. No. 1,427,258; Aug. 29.
- Burns, Helen S., East Dubuque, Ill. Child's apparel outfit. No. 1,435,146; Nov. 14.
- Burns, Helen S., Platteville, Wis. Combined dress and rompers. No. 1,435,147; Nov. 14.
- Burns, Helen S., East Dubuque, Ill. Combined bassinet and swing. No. 1,435,148; Nov. 14.
- Burns, Jabez, & Sons. (See Greene, Richard A., assignor.)
- Burns, James E., Lowell, Mass. Priming mixture. No. 1,437,224; Nov. 28.
- Burns, Jesse L. (See Metheny, Jesse J., assignor.)
- Burns, John A., Pointhouse, Bishopston, Scotland. Device for holding cylindrical bodies, such as pipes, rods, and the like against endwise movement. No. 1,440,207; Dec. 26.
- Burns, Joseph E., Syracuse, N. Y. Producing serrated edge. No. 1,435,514; Nov. 14.
- Burns, Joseph J., assignor of one-fourth to F. E. Burns, Tampa, Fla. Metallic studding. No. 1,413,828; Apr. 25.
- Burns-Pollock Electric Manufacturing Company. (See Burns, Anthony J., assignor.)

Alphabetical list of patentees—Continued.

- Burns, Robert L., Taft, Calif. Underreamer. No. 1,403,388; Jan. 10.
- Burns, Robert L., Taft, Calif. Well-drilling apparatus. No. 1,407,924; Feb. 28.
- Burns, Thomas A., assignor to Dunlop Tire and Rubber Goods Company, Limited, Toronto, Ontario, Canada. Apparatus for solutionizing tire beads. No. 1,422,083; July 11.
- Burns, Thomas J., Detroit, Mich., assignor to W. P. Murphy, Chicago, Ill. Car-coupling uncoupling mechanism. No. 1,407,925; Feb. 28.
- Burns, Thomas M. (See Busher, J. E., and Burns.)
- Burns, Walter G., Fort Wayne, Ind. Gear casing. No. 1,431,721; Oct. 10.
- Burns, Walter W., Greenport, N. Y., assignor to H. B. Johnston, Seattle, Wash. Piston and piston ring. No. 1,419,715; June 13.
- Burns, Walter W., Greenport, N. Y., assignor to H. B. Johnston, Seattle, Wash. Piston and piston ring. No. 1,419,813; June 13.
- Burns, Wilford E., assignor to M. J. Brandenstein & Co., San Francisco, Calif. Ear-tinning machine. No. 1,417,448; May 23.
- Burns, William C., Albany, Oreg. Cuboid support. No. 1,426,258; Aug. 15.
- Burns, William D., Amenia, N. Y. Roller bearing. No. 1,423,304; July 18.
- Burns, William H., Chicago, Ill. Hairpin. No. 1,430,434; Sept. 26.
- Burns, William H., Carbondale, Ill. Oil box. No. 1,430,490; Sept. 26.
- Burnstine, Abraham, Washington, D. C. Second-hand-setting mechanism for watches. No. 1,421,668; July 4.
- Buron, Joseph A., Jr., Worcester, Mass. Automobile extricating device. No. 1,424,616; Aug. 1.
- Burr Company, The. (See Burr, Ellis M., assignor.)
- Burr, Ellis M., assignor to The Burr Company, Champaign, Ill. Dynamometer. No. 1,433,067; Oct. 24.
- Burr, Harry J., East Orange, N. J., assignor to The Postcraft Company, Inc., New York, N. Y. Stamp-affixing machine. No. 1,406,534; Feb. 14.
- Burr, Harry J., New Hartford, N. Y., assignor to Postcraft Company, Inc., Utica, N. Y. Stamp-affixing machine. No. 1,406,535; Feb. 14.
- Burrage, George B., et al., trustees. (See Stephenson, Leigh J., assignor.)
- Burrell, Albert. (See Burrell, Oliver, assignor.)
- Burrell, Austin R., Brooklyn, N. Y. Snap fastener. No. 1,408,073; Feb. 28.
- Burrell, D. H., & Co. (See Feldmeier, H., and Dalzell, assignors.)
- Burrell, D. H., & Co. (See Feldmeier, Harvey, assignor.)
- Burrell, George A., New York, N. Y., G. G. Oberfell, Tulsa, Okla., and C. L. Voress, Bradford, Pa., assignors to Gasoline Recovery Corporation. Apparatus for extracting vapors from gaseous mixtures. No. 1,402,340; Jan. 3.
- Burrell, Oliver, assignor to one-half to A. Burrell, Benson Mines, N. Y. Steel railway tie. No. 1,419,814; June 13.
- Burrell, Timothy J., El Paso, Tex. Track-sanding device. No. 1,426,627; Aug. 22.
- Burrell, William C., Kankakee, Ill., assignor to Robertson Brothers Manufacturing Company. Trough. No. 1,432,051; Oct. 17.
- Burridge, Charles A., St. Johns, Mich. Heating stove. No. 1,403,146; Jan. 10.
- Burris, James N., deceased, by H. E. Voss, administrator, Davenport, Iowa. Nonskid attachment for vehicle tires. (Reissue.) No. 15,418; July 25.
- Burris, Melvin, Mendon, Ohio. Crate. No. 1,436,148; Nov. 21.
- Burroughs Adding Machine Company. (See Bindschedler, Theodore, S., assignor.)
- Burroughs Adding Machine Company. (See Harvey, C. L., and Mueller, assignors.)
- Burroughs Adding Machine Company. (See Morton, Allen A., assignor.)
- Burroughs, Arthur S. (See Dutro, Orville V., and Burroughs.)
- Burroughs, Charles F., East Orange, assignor to Composition Machinery Corporation, Newark, N. J. Molding press. No. 1,405,484; Feb. 7.
- Burrows, E. T., Company, The. (See Gowell, Ernest E., assignor.)
- Burrows, Charles E., Vestal, N. Y. Reverse motion. No. 1,421,163; June 27.
- Burrows, Charles W. (See Arendt, M., Burrows, and Rosenmeyer.)
- Burrows, Eastman A. (See Clump, F. G., and Burrows.)
- Burrows, George T., Cleveland, assignor to one-half to E. H. Groenke, Lima, Ohio. Safety lathe dog. No. 1,409,334; Mar. 14.
- Burrows, Henry, Poulton-le-Fylde, England. Preparation of a metallic jointing compound. No. 1,420,908; June 27.
- Burrows, James. (See Cann, J. A., and Burrows.)
- Burrows, Linus P., deceased, Erie, Pa.; L. B. Archer, executrix. Alloy for forging steel and producing same from nickel ore. No. 1,424,710; Aug. 1.
- Burrows, Linus P., deceased, Erie, Pa.; L. B. Archer, executrix. Treating nickel ores and product resulting therefrom. No. 1,424,711; Aug. 1.
- Burrows, Robert J., assignor to Clark Equipment Company, Buchanan, Mich. Metal wheel. No. 1,405,184; Jan. 31.
- Burrows, Robert J., assignor to Clark Equipment Company, Buchanan, Mich. Axle for motor vehicles. No. 1,409,664; Mar. 14.
- Burrows, Robert J., assignor to Clark Equipment Company, Buchanan, Mich. Metal wheel. No. 1,416,330; May 16.
- Burrows, Robert J., assignor to Clark Equipment Company, Buchanan, Mich. Axle for motor vehicles. No. 1,427,089; Aug. 29.
- Burrows, Robert J., assignor to Clark Equipment Company, Buchanan, Mich. Axle for motor vehicles. No. 1,437,492; Dec. 5.
- Burrows, William R., Newark, N. J., assignor to General Electric Company. Method of and apparatus for finishing bulbs. No. 1,404,268; Jan. 24.
- Burson, Harry H., assignor to Simplex Steel Products Company, Chicago, Ill. Studding for plaster boards and the like. No. 1,414,111; Apr. 25.
- Burson, Harry H., assignor to Simplex Steel Products Company, Chicago, Ill. Chip for plaster boards and the like. No. 1,417,793; May 30.
- Burson, Harry H., assignor to Simplex Steel Products Company, Chicago, Ill. Tying tool. No. 1,426,545; Aug. 22.
- Burson Knitting Company. (See Carlson, Jahan G., assignor.)
- Burstall, William H., assignor to one-half to W. Adamson, Oxnard, Calif. Circle brace. No. 1,419,541; June 13.
- Burstall, William H., and J. S. Turner, Oxnard, Calif., assignors of two-thirds to said Burstall and one-third to said Turner. Reversible wrench. No. 1,417,969; May 30.
- Burt, F. N., Company. (See Carle, Harold, assignor.)
- Burt, F. N., Company. (See Holly, Carlos, assignor.)
- Burt, F. N., Company Limited. (See Palmer, Lyndon C., assignor.)
- Burt, George M. (See Hack, Ernest B., assignor.)
- Burt, George W. (See Myers, Wilson R., assignor.)
- Burt, Glenn V., Kansas City, Mo. Bottle carrier. No. 1,436,234; Nov. 21.
- Burt, Laurence S. (See Broadley, J. R., and Lee, assignors.)
- Burt, Leslie N. (See Richards, G., Burt, and Freeborn.)
- Burt, William C., Enid, Okla. Protective covering for tires. No. 1,403,385; Jan. 10.
- Burtis, Warren H. (See Klein, R. A., Burtis, and Eyerly.)
- Burtnett, Everett R., assignor to G. J. Ziegler, Los Angeles, Calif. Power-lift attachment for tractors. No. 1,419,014; June 6.
- Burtnett, Everett R., assignor to one-half to H. A. Brunell, Los Angeles, Calif. Piston-sleeve valve for L-head motors. No. 1,430,622; Oct. 3.
- Burton, Alexander M., assignor to four-tenths to H. W. J. Seltzer, Pittsburgh, Pa. Vehicle bumper construction. No. 1,438,358; Dec. 12.
- Burton, Carl O., Duluth, Minn. Track sander. No. 1,425,575; Aug. 15.
- Burton, Carroll. (See Brown, W. M., Burton, and Weeks.)
- Burton, Carroll, I. K. Dixon, and S. C. Weeks, Johnstown, Pa. Railway track structure and making same. No. 1,431,369; Oct. 10.
- Burton, Charles H., Washington, D. C. Electric light. No. 1,434,041; Oct. 31.
- Burton, Charles S., et al. (See Clark, Melville, assignor.)
- Burton, Charles S., Oak Park, Ill. Container for music rolls and the like. No. 1,402,917; Jan. 10.
- Burton, Charles S., Oak Park, Ill. Vacuum fuel-feed device for internal-combustion engines. No. 1,408,440; Mar. 7.
- Burton, Charles S., Oak Park, Ill. Container for music rolls and the like. No. 1,422,829; July 18.
- Burton, Charles S., Oak Park, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vacuum fuel-feeding device for internal-combustion engines and the like. No. 1,432,381; Oct. 17.
- Burton, Charles S., Oak Park, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vacuum fuel-feeding device for internal-combustion engines and the like. No. 1,439,689; Dec. 26.
- Burton, Christopher D., London, England. Container. No. 1,415,986; May 16.
- Burton, Frank F., Mount Carmel, assignor to Winchester Repeating Arms Co., New Haven, Conn. Box magazine for firearms. No. 1,407,633; Feb. 21.
- Burton, Frank F., Mount Carmel, assignor to Winchester Repeating Arms Co., New Haven, Conn. Rear sight for firearms. No. 1,438,694; Dec. 12.
- Burton, Frank M., San Antonio, Tex. Fuse carrier. No. 1,405,271; Jan. 31.
- Burton, Frederick A., New York, N. Y. Bottle cap. No. 1,427,259; Aug. 29.
- Burton, George E., Philadelphia, Pa. Sharpener for rotary cutters. No. 1,433,339; Oct. 24.
- Burton, James E., Cambridge, Mass. Scale. No. 1,407,634; Feb. 21.
- Burton-Page Company. (See Shippert, Warren A., assignor.)
- Burton, Thomas J., Murphysboro, Ill. Sewer inlet. No. 1,434,677; Nov. 7.
- Burt, Winslow J. (See Cole, C. D., and Burt.)
- Burwell, Earl L., Warsaw, Ind. Finger-print stand. No. 1,404,432; Jan. 24.

- Burwell, George O., Detroit, Mich., and C. M. Kurtz, Bellevue, Pa. Trolley-wheel mount. No. 1,415,987; May 16.
- Bury, Thomas J., Houston, Tex. Fender brace. No. 1,434,477; Nov. 7.
- Busacker, Emil A., Milwaukee, Wis. Truck-dumping device. No. 1,403,587; Jan. 17.
- Busby, Robert S., Jacksonville, Fla. Hairpin. No. 1,429,712; Sept. 19.
- Busby, Robert S., assignor of one-half to A. D. Richardson and R. O. Birchy, Jacksonville, Fla. Tilting and locking device for steering wheels. No. 1,424,555; Aug. 1.
- Busch, Henry, Linnton, Oreg. Transmission. No. 1,405,272; Jan. 31.
- Busch, John L., St. Louis, Mo. Burglar-proof mechanism for banks. No. 1,401,959; Jan. 3.
- Busch-Sulzer Bros.-Diesel Engine Company. (See Verhey, Hulbert C., assignor.)
- Buscher, George, jr. (See Schein, August P., assignor.)
- Büschmann, Theodor E., Chemnitz-Kappel, assignor to Wanderer-Werke vorm. Winkhofer & Jaenicke Aktiengesellschaft, Schonau B. Chemnitz, Germany. Tabulator bar of typewriter tabulators. No. 1,428,140; Sept. 5.
- Büschmann, Theodor E., Chemnitz-Kappel, assignor to Wanderer-Werke vorm. Winkhofer & Jaenicke Aktiengesellschaft, Schonau B. Chemnitz, Germany. Method and apparatus for fixing slotback types upon the type levers of typewriters. No. 1,428,141; Sept. 5.
- Buschmeyer, Clarence R., assignor to The Standard Register Company, Dayton, Ohio. Recording autographic register. No. 1,407,376; Feb. 21.
- Buse, Frederick W. (See Stahl, Hugo, assignor.)
- Bush, Carl, assignor of one-half to F. L. Walters, Mattoon, Ill. Beading-tool retainer. No. 1,420,240; June 20.
- Bush, Charles J., Buffalo, N. Y. Automobile rim tool. No. 1,433,779; Oct. 31.
- Bush, Corydon I., Gallipolis, Ohio. Lunch or game lap-board. No. 1,436,859; Nov. 28.
- Bush Electric Company, The. (See Bush, Hazel B., assignor.)
- Bush, Everet M., and P. Brown, Haverstraw, N. Y. Protector for shoes. No. 1,440,337; Dec. 26.
- Bush, George G., Bristol, Conn. Polisher. No. 1,424,448; Aug. 1.
- Bush, George W., Covington, Ky. Means employed in collection systems. No. 1,419,815; June 13.
- Bush, Hazel B., deceased, San Bernardino, Calif.; M. D. Douglas, administrator. Fuse-gripping device. No. 1,430,053; Sept. 26.
- Bush, Hazel B., Bedford, assignor to The Bush Electric Company, Cleveland, Ohio. Fuse emplacing and removing implement. No. 1,422,830; July 18.
- Bush, René J., Bloomsburg, Pa. Dispensing container. No. 1,405,753; Feb. 7.
- Bush, William E., Fresno, Calif. Bathing cap. No. 1,436,235; Nov. 21.
- Bushell, Charles S., Beloit, Wis. Window. No. 1,433,780; Oct. 31.
- Busher, Joseph E., and T. M. Burns, Kansas City, Mo. Electric-cord take-up. No. 1,432,964; Oct. 24.
- Bushnell, Alvah, Company. (See Bushnell, Alvah, Jr., assignor.)
- Bushnell, Alvah, Jr., Philadelphia, Pa. Expanding filing pocket. No. 1,403,070; Jan. 10.
- Bushnell, Alvah, Jr., Philadelphia, Pa. Removable card holder for wallets and the like. No. 1,408,981; Mar. 7.
- Bushnell, Alvah, Jr., assignor to Alvah Bushnell Company, Philadelphia, Pa. Binding strap. No. 1,421,164; June 27.
- Bushnell, Clyde E. (See Shimmin, J. T., and Bushnell.)
- Bushnell, John B., Los Angeles, Calif. Direction indicator for vehicles. No. 1,418,531; June 6.
- Busick, William A., Belleville, Ill. Range. No. 1,409,923; Mar. 21.
- Business Systems, Limited. (See Roberts, Herbert L., assignor.)
- Buss, John, Freeport, Ill. Earth-embedded flower holder. No. 1,439,143; Dec. 19.
- Busse, Edwin G., assignor to Chicago Railway Equipment Company, Chicago, Ill. Reversible strut for brake beams. No. 1,438,632; Dec. 12.
- Busse, Edwin G. (See Williams, C. H., and Busse.)
- Busse, Edwin G., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake beam. No. 1,421,064; June 27.
- Busse, Edwin G., assignor to Chicago Railway Equipment Company, Chicago, Ill. Lubricated side bearing. No. 1,435,803; Nov. 14.
- Busse, Edwin G., and A. W. Hawkins, assignors to Chicago Railway Equipment Company, Chicago, Ill. Third or fourth point support bracket for brake rigging. No. 1,428,214; Sept. 5.
- Busse, Edwin G., and G. N. Van Sweringen, assignors to Chicago Railway Equipment Company, Chicago, Ill. Brake head. No. 1,430,355; Sept. 26.
- Busse, Otto, Hettstedt, Germany. Casting mold. No. 1,413,387; Apr. 18.
- Bussey, Charles C., Brooklyn, assignor to S. E. Darby, trustee, New York, N. Y. Apparatus for treating carbonaceous material for the recovery of the volatile hydrocarbon constituents thereof. No. 1,432,275; Oct. 17.
- Bussey, Charles C., Brooklyn, assignor to S. E. Darby, trustee, New York, N. Y. Treating carbonaceous material for the recovery of the volatile hydrocarbon constituents thereof. No. 1,432,276; Oct. 17.
- Bussey, Clyde G., Los Angeles, Calif. Direction signal for motor vehicles. No. 1,434,326; Oct. 31.
- Bussinger, William J., assignor to National Specialty Manufacturing Company, Philadelphia, Pa. Potato slicer. No. 1,439,501; Dec. 19.
- Busskohl, Dick F., Pedro, S. Dak. Belt guide and stay. No. 1,410,549; Mar. 28.
- Bustamante, Gonzalo J., South Hadley, Mass. Production of cellulose from vegetable matter. No. 1,402,210; Jan. 3.
- Buswell, Edwin, Birmingham, England. Forming or truing up the peripheries of grinding wheels. No. 1,440,338; Dec. 26.
- Buswell, Henry L. F. (See Hammond, J. H., Jr., and Buswell.)
- Buswell, Henry L. F., assignor to J. H. Hammond, jr., Gloucester, Mass. System for salvo firing of torpedoes. No. 1,431,144; Oct. 3.
- Butcher, Harry E., assignor to The Standard Parts Company, Cleveland, Ohio. Demountable vehicle wheel rim. No. 1,422,661; July 11.
- Butcher, Hervey E., Buffalo, N. Y. Reinforced concrete column. No. 1,410,453; Mar. 21.
- Butcher, James I., Detroit, Mich. Variable-speed transmission. No. 1,410,454; Mar. 21.
- Butcher, James M., assignor, by mesne assignments, to Sentinel Alarm Clock Co., Chicago, Ill. Mounting and control for alarms. No. 1,410,161; Mar. 21.
- Butcher, Michael, Fernie, British Columbia, Canada. Combination electrical heater and cooker. No. 1,438,516; Dec. 12.
- Butcher, William L., Brighthurst, Ind. Fence protector. No. 1,406,929; Feb. 14.
- Butler, Arthur C., Boston, Mass. Drawing mechanism. No. 1,428,271; Sept. 5.
- Butler, Arthur C., Boston, Mass. Drawing or drafting mechanism. No. 1,433,529; Oct. 31.
- Butler, Charles A., Okmulgee, Okla. Pipe tongs. No. 1,435,376; Nov. 14.
- Butler, David, Montezuma, N. Y. Apparatus for testing motor vehicles. No. 1,407,377; Feb. 21.
- Butler, David H., Edgewood, assignor to Inlaid Company, Providence, R. I. Cigarette case. No. 1,409,665; Mar. 14.
- Butler, Edgar M., Brooklyn, N. Y. Freight-car-unloading device. No. 1,402,475; Jan. 3.
- Butler, Edgar M., and G. A. Jochum, Brooklyn, N. Y. Dumb-waiter attachment. No. 1,404,832; Jan. 31.
- Butler, Edward M., assignor to S. B. Butler, Croton Falls, N. Y. Cuff link. No. 1,431,629; Oct. 10.
- Butler, Frank L., Chicago, Ill. Switch-supporting attachment for electric fixtures. No. 1,423,645; July 25.
- Butler, Frank L., Chicago, Ill. Electric fixture. No. 1,423,646; July 25.
- Butler, Frank M., Elko, Nev. Valve-spring lifter. No. 1,428,471; Sept. 5.
- Butler, Harold, H., R. H. Hayhurst, and W. Alderson, Halifax, England. Slotting, shaping, milling, drilling, and other like machine tools. No. 1,416,786; May 23.
- Butler, Harry F., Oklahoma, Okla. Gate. No. 1,439,604; Dec. 19.
- Butler, Harry R., Pelham Manor, N. Y., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Trolley-track hanger. No. 1,411,234; Mar. 28.
- Butler, James, Alberton, Mont. Cattle guard. No. 1,435,582; Nov. 14.
- Butler, James L., Akron, Ohio assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for making tire casings. No. 1,428,752; Sept. 12.
- Butler, Henry. (See Eldridge, John, assignor.)
- Butler, Herbert. (See Butler, H. and H., Hayhurst, and Alderson.)
- Butler, Hugh M. (See Davis, Charles W., assignor.)
- Butler, Israel, Buffalo, N. Y., assignor of one-half to J. I. Brunson and G. A. Saunders. Train control. No. 1,414,860; May 2.
- Butler, J. W., Paper Company. (See Lysen, John E., assignor.)
- Butler, Jay E., assignor to Victor Piston Ring Company, Baltimore, Md. Apparatus for testing piston rings. No. 1,426,711; Aug. 22.
- Butler, John S., and E. Fowler, U. S. Army. Flash hider and recoil absorber. No. 1,415,919; May 16.
- Butler, John S., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Luminous gun sight. No. 1,423,184; July 18.
- Butler, Joseph, Altrincham, England. Gramophone. No. 1,408,798; Mar. 7.
- Butler, Joseph, Auckland, New Zealand, assignor to The Kauri Timber Company, Limited, Melbourne, Victoria, Australia. Wooden panel. No. 1,418,067; May 30.
- Butler, Percival P., and H. H. Stout, Douglas, Ariz., assignors of fifty-five one-hundredths to Phelps Dodge Corporation. Process and apparatus for extracting copper from slag in the reverberatory furnaces. No. 1,416,262; May 16.

Alphabetical list of patentees—Continued.

- Butler, Richard V., Old Forge, Pa. Thread guide for spinning machines. No. 1,412,917; Apr. 18.
- Butler, Robert B., Chicago, Ill. Window-fastening device. No. 1,408,862; Mar. 7.
- Butler, Stewart B. (See Butler, Edward M., assignor.)
- Butler, William A., Portsmouth, Va. Inside pipe wrench. No. 1,405,896; Feb. 7.
- Butler, William F., Fairport, N. Y., assignor to American Can Company. Fish-positioning machine. No. 1,416,687; May 23.
- Butt, Charles A., Atlanta, Ga. Conditioning fertilizer. No. 1,418,618; June 6.
- Rutt, Herbert G. (See Callan, Frank J., assignor.)
- Butterfield, Alfred R. (See Butterfield, Fred H., and A. R.)
- Butterfield, Daniel J., Los Angeles, Calif. Beverage-vending machine. No. 1,407,838; Feb. 28.
- Butterfield, Daniel J., Los Angeles, Calif. Automatic mixer for beverage-vending machines. No. 1,436,009; Nov. 21.
- Butterfield, Elmore E., Forest Hills, N. Y. Recovering peptones and hematin from blood. No. 1,403,892; Jan. 17.
- Butterfield, Everett N., Auburn, Nebr. Hitching element. No. 1,412,840; Apr. 18.
- Butterfield, Fred H., and A. R., Long Beach, Calif. Speed indicator. No. 1,409,134; Mar. 7.
- Butterfield, Maurice A., Lowell, Mass. Circle-cutting tool. No. 1,423,828; July 25.
- Butters-Camp Mfg. Co., The. (See Camp, W. H., and Butters, assignors.)
- Butters, Robert H. (See Camp, W. H., and Butters.)
- Butters, Robert H. (See Levy, Henri G., assignor.)
- Butterworth, Arthur, Jr. (See Butterworth, Arthur, A., Jr., and H.)
- Butterworth, Arthur, A., Jr., and H., Rochdale, England. Semiautomatic chucking or turning machine and the like machine tool. No. 1,402,397; Jan. 3.
- Butterworth, H. W., and Son's Company. (See Brehmer, Herman C., assignor.)
- Butterworth, H. W., & Sons Company. (See Wiegand, Hugo O., assignor.)
- Butterworth, Harold. (See Butterworth, Arthur, A., Jr., and H.)
- Butterworth, Samuel D., Lansing, Mich. Windshield visor. No. 1,412,551; Apr. 11.
- Butterworth, Samuel D., Lansing, Mich. Connecting-door lock. No. 1,437,040; Nov. 28.
- Button, George W., and M. Sierad, New York, N. Y. Dispenser and container for perfumes. No. 1,420,965; June 27.
- Buttram, William H., assignor of one-half to R. Kobel, one-fourth to W. D. Mayo, and one-fourth to J. M. Mayo, Sallisaw, Okla. Rim tool. No. 1,420,813; June 27.
- Buttress, George A., Los Angeles, Calif., assignor to Buttress Manufacturing Company. Drying, curing, and shaping rolls for wall board. No. 1,439,289; Dec. 19.
- Buttress Manufacturing Company. (See Buttress, George A., assignor.)
- Buttrick, Sidney H., Melrose, Mass. Flexible bed-cover-retaining device. No. 1,419,015; June 6.
- Buttrum, William, Joplin, Mo. Lathe. No. 1,426,546; Aug. 22.
- Butts, Alfred. (See Lopez, Raymond, assignor.)
- Butts, Charles M., Orville, Calif. Subgrade drag. No. 1,439,290; Dec. 19.
- Butts, Daniel G., assignor to Ivory Garter Company, New Orleans, La. Hose-supporter button. No. 1,437,926; Dec. 5.
- Butts, Edward, Georgetown, Colo., and H. K. Dean, Boston, Mass. Railway tie. No. 1,430,884; Oct. 3.
- Butusov, William P., Norfolk, Va. Power plant. No. 1,423,514; July 25.
- Buxton, Incorporated. (See Buxton, Warner R., assignor.)
- Buxton, Warner R., Longmeadow, assignor to Buxton, Incorporated, Springfield, Mass. Key case. No. 1,423,909; July 25.
- Buxton, Warner R., Longmeadow, assignor to Buxton, Incorporated, Springfield, Mass. Case for keys and the like. No. 1,439,863; Dec. 26.
- Buxton, Warner R., Longmeadow, assignor to Buxton, Incorporated, Springfield, Mass. Case for keys and the like. No. 1,439,864; Dec. 26.
- Buzzaird, Raleigh B., Washington, D. C., assignor, by mesne assignments, to Davis Automatic Equipment Corporation, New York, N. Y. Coin-lock mechanism. No. 1,411,952; Apr. 4.
- Byam, Richard P., Port Gamble, Wash. Dust cap. No. 1,436,082; Nov. 21.
- Bye, Karl, and P. Werle, Butte, Mont. Rail-bending device. No. 1,420,179; June 20.
- Bye, Mortimer, and L. H. Carlson, assignors to Frederick Stearns & Company, Detroit, Mich. Medicinal preparation. No. 1,439,605; Dec. 19.
- Byer, Edgar H. (See Wagaman, S. M., and Byer.)
- Byer, Solomon, New York, N. Y. Garment press. No. 1,402,049; Jan. 3.
- Byerlein, Erle J., Milwaukee, Wis. Flask fitting. No. 1,438,633; Dec. 12.
- Byers, A. M., Company. (See Aston, James, assignor.)
- Byers, Benjamin O., assignor of one-half to W. St. John, Cleveland, Ohio. Auto lock. No. 1,421,401; July 4.
- Byers, John F., Machine Company, The. (See Beckwith, Henry C., assignor.)
- Byers, Joseph J., Brookline, Mass., assignor, by mesne assignments, to Rajet Company. Footwear and making the same. No. 1,408,265; Feb. 28.
- Byers, Robert M., Brooklyn, N. Y. Garter. No. 1,424,801; Aug. 8.
- Byles, Frank A., Schenectady, N. Y., assignor to General Electric Company. Electric system. No. 1,415,309; May 9.
- Bylger, Frans I. L., Jersey City, N. J. Troughing pulley for belt conveyers. No. 1,422,662; July 11.
- Bylund, Eric, Winnipeg, Manitoba, Canada. Vehicle tire. No. 1,422,921; July 18.
- By-Products Recovery Co., The. (See Mellott, Howard S., assignor.)
- Byrd, Atvill, Kansas City, Mo. Obstetrical instrument. No. 1,424,984; Aug. 8.
- Byrd, Walter. (See Beasley, H. E., and Byrd.)
- Byrne, Charles F., Janesville, Wis., assignor to General Motors Corporation, Detroit, Mich. Automatic water control for ensilage cutters. No. 1,434,849; Oct. 31.
- Byrne, Charles F. S., Janesville, Wis., assignor to General Motors Corporation, Detroit, Mich. Rod and cross-pin connection and making same. No. 1,417,229; May 23.
- Byrne, Edward A., Brooklyn, N. Y. Track-paving block. No. 1,412,504; Apr. 11.
- Byrne, Francis J., Cannon Township, Kent County, Mich. Device for holding traps. No. 1,409,924; Mar. 21.
- Byrne, Reginald F., East Malvern, Victoria, Australia. Device for securing articles to clotheslines. No. 1,402,567; Jan. 3.
- Byrne, Thomas, Jr., Chicago, Ill. Concrete mixer. No. 1,428,941; Sept. 12.
- Byrnes, Clarence P., trustee. (See James, Joseph H., assignor.)
- Byrnes, Clarence P., Sewickley, Pa. Method of and apparatus for drawing glass. No. 1,425,746; Aug. 15.
- Byron, Hagar B., New York, N. Y. Film sprocket wheel for moving-picture machines. No. 1,424,877; Aug. 8.
- Byron, Orre E., Louisville, Ky. Traylor steering gear. No. 1,427,513; Aug. 29.
- Byron, Thomas F., Chicago, Ill. Bracket. No. 1,407,251; Feb. 21.
- Byrum, Otto H. (See Springfield, Garland P., assignor.)
- Bystrom, John, Chicago, Ill. Loose-leaf binder. No. 1,421,126; June 27.
- Bywater, Arthur, D., and L., London, England. Apparatus for raising and forcing oils. No. 1,402,835; Jan. 10.
- Bywater, Darol. (See Bywater, Arthur, D., and L.)
- Bywater, Lennox. (See Bywater, Arthur, D., and L.)
- C & C Developing Company. (See Colvin, Cadet M., assignor.)
- C. and D. Mfg. Company. (See Dalitz, Harry, assignor.)
- C. & E. Fein, Elektrotechnische Fabrik. (See Berner, August, assignor.)
- Cabalka, Frank, Geddes, S. Dak. Power-actuated hay knife. No. 1,415,789; May 9.
- Cable Company, The. (See Hagey, James C., assignor.)
- Cable Company, The. (See Swensen, Alfred, assignor.)
- Cable, George W., Marysville, Calif. Cleaner and polish composition. No. 1,415,866; May 16.
- Cabot, Deane A. (See Smith, E. W., and Cabot.)
- Cabot, Samuel, Inc. (See Cabot, Samuel, assignor.)
- Cabot, Samuel, Inc. (See Newbury, Warren C., assignor.)
- Cabot, Samuel, Canton, Mass., assignor to Samuel Cabot, Inc. Varnish and making same. No. 1,413,964; Apr. 25.
- Cabral, Seraphine M., New Bedford, Mass. Yarn guide and tension. No. 1,436,942; Nov. 28.
- Cabrini, Attilio, Milan, Italy. Weeding machine for rice fields. No. 1,412,164; Apr. 11.
- Cacciari, Alfonso, Milan, Italy. Pneumatic rotary pump for rarefying and compressing fluids. No. 1,426,356; Aug. 22.
- Caccioppoli, Lorenzo. (See Assereto, A., and Caccioppoli.)
- Cacici, Tina, Brooklyn, N. Y. Embroidery frame. No. 1,411,908; Apr. 4.
- Caddell, Thomas, Canton, Mass. Roll for finishing and like machines. No. 1,435,583; Nov. 14.
- Cade, Charles W., Bellevue, assignor to McKinney Manufacturing Company, Pittsburgh, Pa. Truck. No. 1,431,630; Oct. 10.
- Cade, Enos B., Seattle, Wash. Measuring device. No. 1,405,754; Feb. 7.
- Cade, Enos B., Portland, Oreg. Meter. No. 1,421,905; July 4.
- Cadgène, Ernest. (See Verney, Marius, assignor.)
- Cadillac Motor Car Company. (See Aseltine, Fred E., assignor.)
- Cadillac Motor Car Company. (See Little, Thomas J., Jr., assignor.)
- Cadillac Motor Car Company. (See Snell, Lyle K., assignor.)
- Cadillac Motor Car Company. (See White, D'Orsay M., assignor.)
- Cadman, Addi B., assignor to Warner Manufacturing Company, Beloit, Wis. Bolster and chock. No. 1,411,403; Apr. 4.
- Cadman, Addi B., Beloit, assignor to Warner Manufacturing Company, South Beloit, Wis. Trailer truck. No. 1,421,402; July 4.
- Cadmus, Frederick T., Jr., Fairmont, W. Va. Running gear of vehicles. No. 1,403,288; Jan. 10.

- Cadwalader, Kinsey, Argentine, Kans., assignor of one-half to R. L. Hutton, Kansas City, Mo. Warehouse dumping truck. No. 1,410,991; Mar. 28.
- Cadwell, Charles A., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Rail bond and making same. No. 1,412,269; Apr. 11.
- Cadwell, Joel M., Portland, Oreg. Folding table. No. 1,413,706; Apr. 25.
- Cadwell, John G. (See Scott, R. D., and Cadwell.)
- Cadwell, Phineas M., assignor to Cadwell & Salyers, Malvern, Iowa. Scoop-attaching means for grading and excavating machines. No. 1,410,162; Mar. 21.
- Cadwell, Sidney M., New York, N. Y., assignor to The Naugatuck Chemical Company. Vulcanization of rubber employing amines and open-chain aldehydes and similar substances and products obtained thereby. No. 1,417,970; May 30.
- Cadwell & Salyers. (See Cadwell, Phineas M., assignor.)
- Cady, George B., Canastota, N. Y. Device for placing pistons having rings in cylinders. No. 1,425,075; Aug. 8.
- Cady, Sherman W., Auburn, N. Y., assignor to International Harvester Company. Disk harrow. No. 1,433,068; Oct. 24.
- Cady, Willis E., Chicago, Ill. Air-brake handle. No. 1,423,185; July 18.
- Caesber, Asa E. (See Jordan, T. A., and Caesber.)
- Cafferate, Bernard J., Newark-upon-Trent, England. Plaster-slab-molding machine. No. 1,430,885; Oct. 3.
- Caffero, Michael J. (See Olsen, Harvey, assignor.)
- Cahill, Gerald, et al. (See Carlson, Ivar, assignor.)
- Cahill, John, Lewisburg, Ohio. Burial vault or mausoleum or the like. No. 1,432,836; Oct. 24.
- Cahill, Thomas J., Philadelphia, Pa. Aerial bomb. No. 1,417,299; May 23.
- Cahn, Alma M., Stockton, Calif. Child's garment. No. 1,439,502; Dec. 19.
- Cahusac, Clarence N., Jersey City, N. J., assignor to Universal Fixture Corporation, New York, N. Y. Revolving display fixture. No. 1,432,277; Oct. 17.
- Caimi, Domenico, et al. (See Liuni, Salvatore, assignor.)
- Cain, Alvah E., Philipsburg, Mont. Tractor. No. 1,405,897; Feb. 7.
- Cain, Alvah E., Philipsburg, Mont. Frictional tractor gearing. No. 1,435,584; Nov. 14.
- Cain, Charles, Washington Township, Owen County, Ind. Animal trap. No. 1,418,864; June 6.
- Cain, Charlie L., Blackford, assignor of one-fourth to W. D. Crowell, Marion, Ky. Crosstie. No. 1,427,062; Aug. 22.
- Cain, Clarence E., Wilmer, Tex. Automatic clutch release. No. 1,418,619; June 6.
- Cain, Harry N., assignor to The Donley Brothers Company, Cleveland, Ohio. Fireplace damper. No. 1,415,522; May 9.
- Cain, James W., Detroit, Mich. Spotlight signal. No. 1,413,096; Apr. 18.
- Cain, John J., Bayonne, N. J. Making headers for tubular boilers. No. 1,420,241; June 20.
- Cain, John W., Chicago, Ill. Windshield wiper. No. 1,406,341; Feb. 14.
- Cain, Joseph C., jr., Ford, Ky. Mail-bag catcher. No. 1,436,149; Nov. 21.
- Cain, Thomas P., Wichita, Kans. Hub pull-out attachment. No. 1,403,389; Jan. 10.
- Cain, William H., Los Angeles, Calif. Gas and air mixer. No. 1,407,346; Feb. 21.
- Cairns, George A., et al. (See Mixon, Louis L., assignor.)
- Cairns, Joseph W. (See Cairns, Robert and J. W.)
- Cairns, Robert and J. W., Watertown, Wis. Coin-delivery machine. No. 1,431,215; Oct. 10.
- Calahan, Delona L., Fairfax, Wash. Car-loading apparatus. No. 1,424,279; Aug. 1.
- Calandra, Vincent, Buffalo, N. Y. Budding implement. No. 1,423,491; July 18.
- Calarco, Domenico, Burlington, Vt. Sounding toy. No. 1,413,454; Apr. 18.
- Calcaterra, Joseph, New York, and O. J. Bernardoni, Corona, N. Y. Means to prevent dead centers in engines. No. 1,430,491; Sept. 26.
- Calco, Joseph, Chicago, Ill. Detachable cuff. No. 1,413,897; Apr. 25.
- Calderaro, Vito. (See Ruffo, E., and Calderaro.)
- Calderwood, William T., Huddersfield, England. Machine relating to the manufacture and molding of soap. No. 1,409,925; Mar. 21.
- Caldwell, Alfred B., Detroit, Mich. Pennant holder. No. 1,433,933; Oct. 31.
- Caldwell, Charles P., Kansas City, Mo. Ventilator. No. 1,408,441; Mar. 7.
- Caldwell, Clarence H., Oak Park, Ill. Typewriter attachment. No. 1,424,985; Aug. 8.
- Caldwell, Comer. (See Beverly, F. P., and Caldwell.)
- Caldwell, Francis S., Columbus, Ohio, and A. M. Bennett, Westfield, N. J., assignors, by mesne assignments, to Burke Electric Company. Electric welding. No. 1,428,529; Sept. 12.
- Caldwell, Frank W., Dayton, Ohio. Variable-pitch or reversible propeller. No. 1,404,269; Jan. 24.
- Caldwell, Harold G. (See Ehrenfelde, R., and Caldwell.)
- Caldwell, James R., assignor to The Seamless Rubber Company, Inc., New Haven, Conn. Recoil pad. No. 1,418,532; June 6.
- Caldwell, John C., Miami, Fla. Fishing rod. No. 1,415,310; May 9.
- Caldwell, John H., Wenona, Ill. Disk plow. No. 1,404,577; Jan. 24.
- Caldwell, P. G. (See Hood, William S., assignor.)
- Caldwell, Paul L., Kansas City, Mo. Light director and reflector for automobile lamps. No. 1,403,840; Jan. 17.
- Caldwell, Warren A., Oskaloosa, Iowa. Grain crib. No. 1,421,763; July 4.
- Caldwell, William L., assignor, by mesne assignments, to United Alloy Steel Corporation, Canton, Ohio. Joist hanger. No. 1,406,723; Feb. 14.
- Caler, Heman A., Portland, Oreg. Comforter or wadded quilt. No. 1,421,906; July 4.
- Calhoun, Chas., et al. (See Werts, William D., assignor.)
- Calhoun, Henry C., Detroit, Mich. Vehicle wheel. No. 1,407,252; Feb. 21.
- Calhoun, John W., Chester, Pa. Meter-box, manhole, and like cover. No. 1,408,982; Mar. 7.
- Calhoun, John W., Chester, Pa. Meter-box cover. No. 1,421,669; July 4.
- Calhoun, John W., Chester, Pa. Meter-testing machine. No. 1,434,198; Oct. 31.
- Calhoun, Lannie M. (See Martin, H. W., and Calhoun.)
- Calhoun, Sterling W., Glencoe, Ill. Fluid compressor. No. 1,413,388; Apr. 18.
- California Barrel Co. (See Warren, M. C., and Krohn, assignors.)
- California Barrel Company. (See Andresen, Julius C., assignor.)
- California Burdett Oxygen Company. (See Coberly, Clarence J., assignor.)
- California Cap. Company. (See Oliver, Albert L., assignor.)
- California Packing Corporation. (See Blankenhorn, G. W., and Castberg, assignors.)
- California Sales Agency Company, The. (See Fitchet, Charles L., assignor.)
- Caligan, William L., Waterbury, assignor to Robert N. Bassett Company Inc., Derby, Conn. Bag lock. No. 1,427,353; Aug. 29.
- Calise, Harry J., New York, N. Y. Automobile lamp cover. No. 1,409,666; Mar. 14.
- Calkins, Bert L., Racine, Wis. Hacksaw machine. No. 1,437,225; Nov. 28.
- Calkins, Frederick A., Waterbury, Conn. Chain-link opening and closing device. No. 1,438,216; Dec. 12.
- Calkins, Seward H., New York, N. Y. Divider and reinforcing strip. No. 1,434,281; Oct. 31.
- Calkins, Uriah R., Cheyenne Wells, Colo. Composition of matter for the treatment of diseases of cows. No. 1,404,370; Jan. 24.
- Calkins, William M., Syracuse, N. Y. Apparatus for mixing liquids. No. 1,420,079; June 20.
- Call, Ralph H., Manchester, N. H. Milk-bottle holder. No. 1,419,488; June 13.
- Callaghan, George H. and J. L., assignors of three-fourths to T. L. Glazebrook, Minneapolis, Minn., and one-fourth to said J. L. Callaghan. Towrope. No. 1,407,378; Feb. 21.
- Callaghan, James L. (See Callaghan, George H. and J. L.)
- Callaghan, William E., Canton, Ohio. Hand-propelled vehicle. No. 1,439,465; Dec. 19.
- Callahan, Charles F., Memphis, Tenn. Apparatus for dispensing beverages. No. 1,409,827; Mar. 14.
- Callahan, James P., San Francisco, Calif. Side-wing and sunshade supporting bracket. No. 1,433,934; Oct. 31.
- Callahan, Timothy F., Squantum, Mass. Liquid measuring and dispensing apparatus. No. 1,423,305; July 18.
- Callahan, Walter E. (See Eppelman, C. C., and Callahan.)
- Callahan, William J., Worcester, Mass. Automobile instrument light. No. 1,411,266; Apr. 4.
- Callais, Julian C., St. Louis, Mo. Amusement device. No. 1,421,907; July 4.
- Callan, Frank J., deceased, Boston, by A. E. Reimer, executor, Boston, assignor to H. G. Burr, Winthrop, Mass. Quick-acting pipe vise. No. 1,421,065; June 27.
- Callard, Robert P., Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-glass-drawing mechanism. No. 1,402,145; Jan. 3.
- Callaway, Oswald E., Dallas, Tex. Attachment for binders. No. 1,425,365; Aug. 8.
- Callobert, Alfonse, assignor to Rex Machine Tool Co., Jackson, Mich. Cylinder-reaming tool. No. 1,427,514; Aug. 29.
- Callobert, Alfonse, assignor to Rex Machine Tool Company, Jackson, Mich. Burnishing tool. No. 1,429,403; Sept. 19.
- Callery, George F., Oak Park, and R. W. Lotz, Chicago, Ill. Carton. No. 1,415,988; May 16.
- Callery, Thomas J., Jersey City, N. J. Freight-car-closing device. No. 1,405,486; Feb. 7.
- Callier, Felix J., Brush, Colo. Automatic focusing device for enlarging cameras. No. 1,423,997; July 25.
- Callison, Abner F., Buffalo Creek, Colo. Loading and unloading means and portable body for trucks. No. 1,422,663; July 11.
- Calisen, Jurgen, Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Manufacture and production of bromodithylacetylcarboxyalkyl-urea compounds. No. 1,424,236; Aug. 1.
- Callsen, Tüngen. (See Willstätter, R., Duisberg, and Callsen.)

Alphabetical list of patentees—Continued.

- Callum, Henry B. M., and G. S. Hollister; said Callum assignor of his entire right to The Brooklyn Manufacturing Company, Cleveland, Ohio. Means for applying gear transmission to Ford cars. No. 1,410,163; Mar. 21.
- Calmanson, Saul. (See Melniker, A., and Calmanson.)
- Calthrop, Everard R., assignor to E. R. Calthrop's Aerial Patents Limited, London, England. Parachute. No. 1,436,041; Nov. 21.
- Calthrop's, E. R. Aerial Patents Limited. (See Calthrop, Everard R., assignor.)
- Calusinski, Edward, Chicago, Ill. Bed. No. 1,413,455; Apr. 18.
- Calvento, Pedro J., Manila, P. I. Pencil case. No. 1,431,722; Oct. 10.
- Calvert, Frank W., Swarthmore, Pa., assignor to Scott Paper Company. Dispensing cabinet. No. 1,403,007; Jan. 10.
- Calvert, Robert P., Montclair, N. J., assignor to E. L. du Pont de Nemours & Company, Wilmington, Del. Nitration of cellulose. No. 1,437,041; Nov. 28.
- Calvignac, German, Levallois-Perret, France. Pressed-steel frame for motor cycles and like vehicles. No. 1,430,938; Oct. 3.
- Calvin, William A. (See Rouse, J. H., and De Ligne, assignors.)
- Cambridge, Mechanical Toy Co., The. (See Hartleb, R. C., and Levey, assignors.)
- Camburn, Clare H. and W. E. Tecumseh, Mich. Air pump for motor vehicles. No. 1,405,397; Feb. 7.
- Camburn, William E. (See Camburn, Clare H. and W. E.)
- Camden Curtain & Embroidery Company. (See Franklin, Charles J., assignor.)
- Camden Iron Works. (See Brown, Oakley T., assignor.)
- Camell, Philip, Wilmington, Del. Adjustable switch-point rail section. No. 1,438,296; Dec. 12.
- Camelinat, Zepharin E., Birmingham, England. Lamp for vehicles and other purposes. No. 1,440,054; Dec. 26.
- Camelo, Nicholas, Rome, assignor of one-third to I. J. Bliss, Utica, and one-third to M. L. E. Johnson, Camden, N. Y. Sheet-metal plating or coating machine. No. 1,430,054; Sept. 26.
- Cameragraph Company. (See Jones, F. E., and Schwab, assignors.)
- Cameron, Alexander G., Winnipeg, Manitoba, Canada. Drawing instrument. No. 1,438,695; Dec. 12.
- Cameron, Alfred G., Los Gatos, and C. F. Cameron, San Francisco, Calif.; said C. F. Cameron assignor to said Alfred G. Cameron. Wall structure. No. 1,408,983; Mar. 7.
- Cameron, Arden, Norwich, Ontario, Canada. Ditching machine. No. 1,424,151; Aug. 1.
- Cameron, Burr S., Douglassville, Tex. Airplane landing director. No. 1,422,922; July 18.
- Cameron Can Machinery Co. (See Cameron, William, assignor.)
- Cameron, Carl C., deceased, Slater, Mo.; M. A. Cameron executrix. Gate construction. No. 1,413,157; Apr. 18.
- Cameron, Charles F. (See Cameron, Alfred G. and C. F.)
- Cameron-Cowburn, Gertrude M., Gosport, England. Gearing. No. 1,425,172; Aug. 8.
- Cameron, Daniel W., Antioch, Nebr. Material and article handling apparatus. No. 1,431,216; Oct. 10.
- Cameron, Donald H. (See Holmes, H. N., and Cameron.)
- Camekon, Everett S., West Haven, Conn. Valve action for explosive engines. No. 1,402,478; Jan. 3.
- Cameron, Everett S., Stamford, assignor of one-third to B. Harris, Stamford, and one-third to J. Hanson, Greenwich, Conn. Tractor. No. 1,434,199; Oct. 31.
- Cameron, George T. (See Converse, Newton B., assignor.)
- Cameron, Gordon, Wollaston, assignor to S. B. Condit, jr., Brookline, Mass. Oil switch. No. 1,427,442; Aug. 29.
- Cameron, Harvey D., Chicago, Ill. Wheelbarrow or other dumping vehicle. No. 1,402,050; Jan. 3.
- Cameron, Hugh, Newark, assignor to R. D. Kent, Passaic, N. J. Automatic scale. No. 1,422,664; July 11.
- Cameron, James A., and G. B. Birch, assignors to Cameron Machine Company, Brooklyn, N. Y. Rewinding device. No. 1,437,398; Dec. 5.
- Cameron, John E., Charlottetown, Prince Edward Island, Canada. Orthopedic device or apparatus. No. 1,418,283; June 6.
- Cameron, John M., Dorchester, Va. Mine-car truck. No. 1,419,218; July 13.
- Cameron, Le Roy C., Detroit, Mich. Control mechanism for motor vehicles. No. 1,403,390; Jan. 10.
- Cameron Machine Company. (See Cameron, J. A., and Birch, assignors.)
- Cameron Machine Company. (See Johnstone, Robert M., assignor.)
- Cameron, Mae A., executrix. (See Cameron, Carl C.)
- Cameron, Monroe A., Broadview, Mont. Eccentric steering device for motor vehicles. No. 1,418,698; June 6.
- Cameron, Neil M., Shoal Lake, Manitoba, Canada. Attachment for bundle carriers. No. 1,419,542; June 13.
- Cameron, Peter, Methil, Scotland. Spraying and distributing nozzle. No. 1,415,523; May 9.
- Cameron, Thomas A. (See Kallwitz, Oscar E., assignor.)
- Cameron, Will J., Chicago, Ill. Incandescent electric lamp. No. 1,433,982; Oct. 31.
- Cameron, William, assignor to Cameron Can Machinery Co., Chicago, Ill. Can-scaming machine. No. 1,406,724; Feb. 14.
- Cameron, William, assignor to Cameron Can Machinery Co., Chicago, Ill. Composition-applying machine. No. 1,433,673; Oct. 31.
- Cameron, William, assignor to Cameron Can Machinery Co., Chicago, Ill. Can-end curling and stacking mechanism. No. 1,433,696; Oct. 31.
- Cameron, William H., assignor to Radium Chemical Company, Pittsburgh, Pa. Tool. No. 1,422,538; July 11.
- Cameron, William R. (See Eaton, A. C., and Cameron.)
- Cameron, William W., La Crosse, Wis., assignor, by mesne assignments, to F. Gerlach and A. B. Keller, Chicago, Ill. Plow. No. 1,412,918; Apr. 18.
- Cameron, William W., La Crosse, Wis., assignor, by mesne assignments, to F. Gerlach and A. B. Keller, trustees, Chicago, Ill. Plow. No. 1,415,311; May 9.
- Cameron, William W., assignor to La Crosse Plow Company, La Crosse, Wis. Clutch. No. 1,430,722; Oct. 3.
- Camfield, Earthen H., assignor of one-half to J. V. McCandless, Florence, Colo. Air signal. No. 1,412,099; Apr. 11.
- Cammack, Lucius H., and H. A. Brown, Huntington, W. Va. Rotary advertising device. No. 1,424,449; Aug. 1.
- Cammen, Leon, New York, N. Y. Centrifugal casting. No. 1,410,885; Mar. 28.
- Cammen, Leon, Tuckahoe, N. Y. Centrifugal casting. No. 1,436,305; Nov. 21.
- Cammen, Leon, New York, N. Y., assignor to General Electric Company. Multiple-filament incandescent lamp. No. 1,419,816; June 13.
- Cammen, Leon, New York, N. Y., assignor to The International Nickel Company. Nickel alloy. No. 1,439,865; Dec. 26.
- Camo Cart Company. (See Pippin, Clyde A., assignor.)
- Camp, Arthur E., Binghamton, N. Y. Scaffold carrier. No. 1,423,998; July 25.
- Camp, Beauford R. (See Ricci, Henry, assignor.)
- Camp, Ernest, and A. F. Schatzel, San Diego, Calif. Attachment for transmissions. No. 1,433,176; Oct. 24.
- Camp, Frank W., San Francisco, Calif. Apparatus for concreting piles. No. 1,411,404; Apr. 4.
- Camp, Frank W., San Francisco, Calif. Apparatus and method for coating piles. No. 1,436,978; Nov. 28.
- Camp, John A., Palms, Calif. Advertising device. No. 1,409,077; Mar. 7.
- Camp, Samuel H., Jackson, Mich. Corset. No. 1,438,942; Dec. 19.
- Camp, Warner H., assignor, by mesne assignments, to J. H. Miller, Atlanta, Ga. Baling fibrous materials. No. 1,413,456; Apr. 18.
- Camp, Warner H., and R. H. Butters, assignors to The Butters-Camp Mfg. Co., Atlanta, Ga. Rotary cutter for forming or renewing gin or linter saw teeth. No. 1,419,917; June 20.
- Camp, William A., Hartford, Conn. Toy. No. 1,412,448; Apr. 11.
- Camp, William W., Denver, Colo. Vermin exterminator. No. 1,422,831; July 18.
- Campana, Domenic M., Chicago, Ill. Lining gauge. No. 1,436,791; Nov. 28.
- Campbell, A. S., Company. (See Campbell, Alphonso S., assignor.)
- Campbell, Alphonso S., West Medford, assignor to A. S. Campbell Company, Boston, Mass. Making rings and the like. No. 1,426,275; Aug. 15.
- Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump car and door-operating mechanism therefor. No. 1,402,836; Jan. 10.
- Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Grain-car door. No. 1,405,666; Feb. 7.
- Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Car-door-locking mechanism. No. 1,417,494; May 30.
- Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Car-door-locking mechanism. No. 1,417,495; May 30.
- Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Door-operating mechanism. No. 1,418,907; June 6.
- Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Convertible stock car. No. 1,433,781; Oct. 31.
- Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Combined door brace and locking mechanism. No. 1,437,090; Nov. 28.
- Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Car construction. No. 1,437,091; Nov. 28.
- Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Door-operating mechanism. No. 1,438,297; Dec. 12.
- Campbell Art Company. (See Newton, Ruth E., assignor.)
- Campbell Baking Company, The. (See Harrel, Chastain G., assignor.)
- Campbell Baking Company, The. (See Patterson, Curtis J., assignor.)
- Campbell, Bert L., Chicago, Ill. Hydrometer. No. 1,406,342; Feb. 14.
- Campbell, Bert L., Chicago, Ill. Internal-combustion engine. No. 1,410,886; Mar. 28.

Alphabetical list of patentees—Continued.

- Campbell, Bert L., Chicago, Ill. Automatic cut-out. No. 1,422,923; July 18.
- Campbell, C. H., Furniture Company, The. (See Van Dorin, Harry W., assignor.)
- Campbell, Charles A., Watertown, N. Y. Lubricating device. No. 1,402,051; Jan. 3.
- Campbell, Charles A., assignor to Progressive Engineering Company, Los Angeles, Calif. Tapping machine. No. 1,404,371; Jan. 24.
- Campbell, Charles E., Lynn, Mass. Ball bearing. No. 1,408,266; Feb. 28.
- Campbell, Charles S., New Haven, and W. H. Day, East Haven, assignors to Index Visible, Inc., New Haven, Conn. Index or file. No. 1,421,670; July 4.
- Campbell, Charles W. R., Germiston, and F. G. A. Roberts, Parktown, Johannesburg, Transvaal, South Africa. Production of color pictures. No. 1,427,578; Aug. 29.
- Campbell, Charles W. R., Germiston, and F. G. A. Roberts, Parktown, Johannesburg, Transvaal, South Africa. Production of moving pictures. No. 1,440,004; Dec. 26.
- Campbell, David W., Minneapolis, Minn. Door-operating mechanism. No. 1,440,055; Dec. 26.
- Campbell, Donald J., et al., trustees. (See Warren, J. R., and Brechting, assignors.)
- Campbell, Donald J., et al., trustees. (See Warren, John R., assignor.)
- Campbell, Donald J., Muskegon Heights, assignor of one-fourth to R. B. Campbell, South Haven, Mich. Sand-hopper construction. No. 1,405,398; Feb. 7.
- Campbell, Donald J., Muskegon Heights, assignor of one-fourth to G. W. Cannon, Muskegon, Mich. Core box. No. 1,432,665; Oct. 17.
- Campbell, Donald J., Muskegon Heights, assignor of one-third to I. A. Wyant, Muskegon, Mich. Core-box plate. No. 1,432,666; Oct. 17.
- Campbell, Edward B., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Rotary pivoted hammer for crushers. No. 1,410,455; Mar. 21.
- Campbell, Edward B., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Rotary pivoted hammer. No. 1,413,652; Apr. 25.
- Campbell, Edward C. (See West, J., and Campbell.)
- Campbell, Edward D., assignor of one-half to J. A. Wilkie, Galt, Ontario, Canada. Barber's appliance. No. 1,413,515; Apr. 18.
- Campbell, Ernest P., Stockton, Calif. Annular-bearing puller. No. 1,425,836; Aug. 15.
- Campbell, Ernest P., Stockton, Calif. Bearing puller. No. 1,435,278; Nov. 14.
- Campbell, Ernest R. (See Mosier, J. P., and Campbell.)
- Campbell, Ernest R., et al. (See Mosier, James P., assignor.)
- Campbell, Frank M. (See Crandall, Albert L., assignor.)
- Campbell, Fred S., Lynn, Mass. Psychograph. No. 1,404,927; Jan. 31.
- Campbell, George B., Fort Morgan, Colo. Ditch-digging machine. No. 1,432,837; Oct. 24.
- Campbell, George S., and O. A. Sommermeyer, Passaic, N. J. Submersible electric heater. No. 1,437,166; Nov. 28.
- Campbell, George W., Columbus, Ohio. Mortising machine. No. 1,415,790; May 9.
- Campbell, George W., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,407,982; Feb. 28.
- Campbell, George W., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,428,215; Sept. 5.
- Campbell, George W., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,430,356; Sept. 26.
- Campbell, George W., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,433,935; Oct. 31.
- Campbell, Hardy W., Lincoln, Nebr. Grain shoe. No. 1,416,331; May 16.
- Campbell, Hardy W., Oakland, Calif. Rotary disk cultivator. No. 1,417,971; May 30.
- Campbell, Harry E., New York, N. Y. Window frame and sash. No. 1,426,458; Aug. 22.
- Campbell, Hiram J. (See Record, J. L., and Campbell.)
- Campbell, Horace L., St. Louis, Mo. Elevator. No. 1,431,930; Oct. 17.
- Campbell, Howard B., Erie, Pa. Letter sheet. No. 1,423,910; July 25.
- Campbell, Hugh L., Nashville, Tenn. Adhesive composition and producing the same. No. 1,435,377; Nov. 14.
- Campbell, James C. (See Hatcher, O. M., and Campbell.)
- Campbell, James H., et al. (See Taylor, Boone U., assignor.)
- Campbell, James M. (See Philbert, Major, assignor.)
- Campbell, John, Cleveland, Ohio. Road indicator. No. 1,405,273; Jan. 31.
- Campbell, John, assignor of one-half to A. S. Dowdall, Minneapolis, Minn. Power-driven hair clipper. No. 1,428,836; Sept. 12.
- Campbell, John A., Carbondale, Ill. Stamping device. No. 1,420,686; June 27.
- Campbell, John D., Sea Bright, N. J. Manicure implement. No. 1,433,936; Oct. 31.
- Campbell, Joseph, Company. (See McGowan, James, Jr., assignor.)
- Campbell, Layard, New York, N. Y., assignor to J. W. Leslie and J. H. Leslie, Chicago, Ill. Bale-wire tool. No. 1,430,623; Oct. 3.
- Campbell, Layard, New York, N. Y., assignor to J. W. Leslie and J. H. Leslie, Chicago, Ill. Wire-strapping tool. No. 1,431,151; Oct. 10.
- Campbell, Layard, New York, N. Y., assignor to J. W. Leslie and J. H. Leslie, Chicago, Ill. Wire-strapping tool. No. 1,431,152; Oct. 10.
- Campbell, Leo F. (See Anderson, S. R., and Campbell.)
- Campbell, Leo P. (See Williams, Allen, assignor.)
- Campbell, Leon W., Providence, R. I. Flier for roving frames. No. 1,420,966; June 27.
- Campbell, Marguerite G., executrix. (See Miller, Daniel K.)
- Campbell, Mark, Cincinnati, Ohio. Table pad. No. 1,429,225; Sept. 19.
- Campbell, Peter, Bristol, and W. J. Banks, Hotwells, Bristol, England. Piston, piston valve or the like. No. 1,406,586; Feb. 14.
- Campbell, Philip A., Vancouver, British Columbia, Canada. Lawn mower. No. 1,423,999; July 25.
- Campbell, Philip A., F. F. Eby, and S. H. Price, Edmonton, Alberta; said Campbell and Price assignors, by mesne assignments, to Canadian Farm Implement Company Limited, Vancouver, British Columbia, Canada. Mower. No. 1,424,617; Aug. 1.
- Campbell, Raymond W., Huntsville, Ill. Chain fastener. No. 1,412,919; Apr. 18.
- Campbell, Robert B. (See Campbell, Donald J., assignor.)
- Campbell, Robert C., Millburn, N. J., assignor to United Filters Corporation, New York, N. Y. Filter. No. 1,430,518; Sept. 26.
- Campbell, Robert F., Brooklyn, N. Y. Safety pin. No. 1,409,667; Mar. 14.
- Campbell, Ronald E., Columbia, S. C. Stove. No. 1,427,354; Aug. 29.
- Campbell, Sarah W. (See Linden, Alfred R., assignor.)
- Campbell, Sterling H. (See Moeller, I., and Arkwright, assignors.)
- Campbell, Tracy R., Montreal, Quebec, Canada. Loose-leaf binder. No. 1,432,382; Oct. 17.
- Campbell, Walter T., St. Louis, Mo. Tire lock. (Reissue.) No. 15,365; May 30.
- Campbell, Walter T., St. Louis, Mo. Tire lock. (Reissue.) No. 15,380; June 13.
- Campbell, Wendell B., et al. (See Campbell, W. B., and Stricker, assignors.)
- Campbell, Wendell B., and C. W. Stricker, Cincinnati, Ohio, assignors of one-half to The Perkins-Campbell Company, Cincinnati, Ohio, and one-half to said W. B. Campbell. Loom and the fabric produced thereby. No. 1,405,274; Jan. 31.
- Campbell, William, Detroit, Mich. Electric fireless cooker. No. 1,416,263; May 16.
- Campbell, William C., Denver, Colo., assignor of one-half to A. P. Russell, Cheyenne, Wyo. Tape reel. No. 1,412,449; Apr. 11.
- Campbell, William J., Jr., Astoria, N. Y. Combination strainer. No. 1,412,674; Apr. 11.
- Campbell, William S., New Kensington, Pa. Elevator lock. No. 1,417,449; May 23.
- Campbell, William S., New Kensington, Pa. Elevator lock. No. 1,417,450; May 23.
- Campbell, William S., New Kensington, Pa. Elevator lock. No. 1,417,451; May 23.
- Campbell & Budlong Machine Works. (See Budlong, Wilbur F., assignor.)
- Campos, Victor, New York, N. Y. Diver's suit. No. 1,414,174; Apr. 25.
- Camward Engineering Co. (See Howard, John A., sr., assignor.)
- Canaday, Orpha P., Fort Wayne, Ind. Air stand. No. 1,412,100; Apr. 11.
- Canadian Car & Foundry Company. (See Shaw, Ross O., assignor.)
- Canadian Car and Foundry Company, Limited. (See Viberg, Ernest R., assignor.)
- Canadian Farm Implement Company Limited. (See Campbell, P. A., Eby, and Price, assignors.)
- Canadian Vaporizer Company, The. (See Funke, Frank, assignor.)
- Canda, Ferdinand M., New York, N. Y. Ball-rolling apparatus. No. 1,419,817; June 13.
- Canda, Ferdinand M., New York, N. Y. Roll for rolling mills. No. 1,427,063; Aug. 22.
- Canda, Ferdinand M., New York, N. Y. Roll for rolling mills. No. 1,428,142; Sept. 5.
- Candee, Andrew H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulating system. No. 1,421,165; June 27.
- Candee, Andrew H., Wilkingsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,427,355; Aug. 29.
- Candee, Andrew H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,427,356; Aug. 29.
- Candee, Andrew H., Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,430,534; Oct. 3.
- Candee, Andrew H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Resistor. No. 1,433,997; Oct. 31.

Alphabetical list of patentees—Continued.

- Candee, Andrew H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,435,207; Nov. 14.
- Candee, Andrew H., Pittsburgh, and L. J. Hibbard, Wilkensburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Relay. No. 1,428,837; Sept. 12.
- Candee, Zenas P., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Transfer mechanism. No. 1,426,039; Aug. 15.
- Candee, Zenas P., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Multiple-plunger machine. No. 1,435,208; Nov. 14.
- Candee, Zenas P., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Feed mechanism. No. 1,440,208; Dec. 26.
- Candle-Leete, Limited. (See Lloyd, E., and Lowry, assignors.)
- Candlot, Charles, Paris, France. Furnace-drawing apparatus for lime kilns, cement kilns, and the like. No. 1,429,925; Sept. 26.
- Candor, Edward R., Montclair, N. J. Apparatus for refrigeration. No. 1,402,716; Jan. 3.
- Cane, Gordon F., Oakland, assignor to American Automatic Lock and Lift Company, San Francisco, Calif. Gear rack. No. 1,424,237; Aug. 1.
- Canedy-Otto Mfg. Co. (See Werth, George F., assignor.)
- Canell, Charles E., Portland, Oreg., assignor of one-half to E. T. White, Everett, Wash. Poultry feeder. No. 1,424,079; July 25.
- Canfield, Allen N., assignor to Fit-Rite Company, Des Moines, Iowa. Foot-measuring device for fitting shoes. No. 1,430,794; Oct. 3.
- Canfield, Arthur J., Montreal, Quebec, Canada. Making draft-gear yokes. No. 1,404,833; Jan. 31.
- Canfield, Arthur J., and E. R. Viberg, Montreal, Quebec, Canada. Truck bolster. No. 1,403,588; Jan. 17.
- Canfield, Dany D., Nashville, Tenn. Feeding device for flat-work ironers. No. 1,406,823; Feb. 14.
- Canfield, Harry R., Cleveland, Ohio. Snowplow. No. 1,424,878; Aug. 8.
- Canine, Chester W., Cincinnati, Ohio. Laundry-marking machine. No. 1,435,378; Nov. 14.
- Canion Air Brake Company. (See Canion, William G., assignor.)
- Canion, William G., Glen Burnie, Md., assignor to Canion Air Brake Company, Bisbee, Ariz. Triple valve. No. 1,406,609; Feb. 14.
- Canion, William G., Baltimore, Md., assignor to Canion Air Brake Company, Bisbee, Ariz. Compound air brake. No. 1,430,357; Sept. 26.
- Canion, William G., Baltimore, Md., assignor to Canion Air Brake Company, Bisbee, Ariz. Compound air brake. No. 1,430,358; Sept. 26.
- Canion William G., Baltimore, Md., assignor to Canion Air Brake Company, Bisbee, Ariz. Compound air brake. No. 1,430,359; Sept. 26.
- Cann, John A., Harefield, near Uxbridge, and J. Burrows, Harefield, England, assignors to Bell's United Asbestos Company, Limited, London, England. Engine packing. No. 1,426,459; Aug. 22.
- Canning, Ernest, Sydney, New South Wales, Australia. Paper-setting yoke in typewriting machines. No. 1,411,707; Apr. 4.
- Cannon, Edson L. (See Sorenson, Daniel M., assignor.)
- Cannon, Frederick I., Bedford, Ohio. Lubricant demonstrator. No. 1,410,456; Mar. 21.
- Cannon, George B., jr., Brooklyn, and F. W. Howard, Mount Vernon, N. Y. Waterproof-paper umbrella. No. 1,431,775; Oct. 10.
- Cannon, George W. (See Campbell, Donald J., assignor.)
- Cannon, Henry H., assignor to Regal Button Works, Incorporated, Philadelphia, Pa. Machine for making snap fasteners. No. 1,436,476; Nov. 21.
- Cannon, James H., Los Angeles, Calif. Drier for paper-ruling machines. No. 1,421,166; June 27.
- Cannon, Percival C., Wolverhampton, assignor to Centrifugal Concrete Blocks and Poles Limited, Westminster, London, England. Apparatus for use in manufacturing concrete and like blocks, pipes, posts, girders, and the like. No. 1,404,578; Jan. 24.
- Canott, Fred D., Portland, Oreg. Storm curtain. No. 1,410,457; Mar. 21.
- Canova, William, Paterson, N. J. Tension device. No. 1,414,175; Apr. 25.
- Cantelo, John S., Boston, Mass. Caster. No. 1,406,930; Feb. 14.
- Cantelon, David A., and J. Zuefle, Hensall, Ontario, Canada. Shipping-case for eggs and the like. No. 1,437,930; Dec. 5.
- Canter, Vernon C. (See Voress, C. L., and Canter.)
- Cantleberry, Frank W., Siquoc, Calif. Device for supporting cooking utensils. No. 1,414,771; May 2.
- Cantrell, J. T., & Company. (See Cantrell, Joseph T., assignor.)
- Cantrell, Joseph T., assignor to J. T. Cantrell & Company, Huntington, N. Y. Vehicle body. No. 1,417,140; May 23.
- Cantwell, Edward J., Kansas City, Mo. Hay stacker. No. 1,422,924; July 18.
- Capell, Western L., Omaha, Nebr. Iodine fumigator. No. 1,427,515; Aug. 29.
- Capellman, Hubert J., and R. Hayhurst, South Chicago, Ill. Potato-peeling apparatus. No. 1,418,230; May 30.
- Capen Belting and Rubber Company. (See King, Charles E., assignor.)
- Capen, Mary B., Detroit, Mich. Cart. No. 1,414,112; Apr. 25.
- Capewell, George J., Hartford, Conn. Horseshoe. No. 1,403,071; Jan. 10.
- Capirosso, Angelo, Rossiter, Pa. Anchor hook. No. 1,419,016; June 6.
- Capital City Chair Company. (See Croft, John J., assignor.)
- Caplan, Harry, Detroit, Mich. Vehicle fender. No. 1,423,186; July 18.
- Caplan, Harry, Detroit, Mich. Automobile fender. No. 1,423,187; July 18.
- Caplan, James H., Boston, Mass. Buffing cover for rotary brushes. No. 1,413,574; Apr. 25.
- Caplan, Nathan K., Detroit, Mich. Draft controller. No. 1,431,931; Oct. 17.
- Caple, William, Homestead, Pa. Motor-generator drive. No. 1,413,158; Apr. 18.
- Capobianco, Michael A., Glen Cove, N. Y. Adjustable wrench. No. 1,413,516; Apr. 18.
- Capozza, Pietro, Portland, Me. Furnace-door mechanism. No. 1,410,887; Mar. 28.
- Cappel, Joseph, Peoria, Ill. Barrel-head-securing device. No. 1,420,019; June 20.
- Cappel, Joseph, and C. R. Edwards, Peoria, Ill. Nut lock. No. 1,428,753; Sept. 12.
- Capps, Frank L. (See Lyle, M. E., Scully, and Capps.)
- Capro, Angelo M., Philadelphia, Pa. Filter. No. 1,429,488; Sept. 19.
- Caproni, Gianni, Milan, Italy. Flying-machine construction. No. 1,416,167; May 16.
- Caproni, Gianni, Milan, Italy. Flying machine. No. 1,420,620; June 27.
- Caps, Arthur W. (See Hawley, J. E., and Caps.)
- Caps, Arthur W., Topeka, Kans. Electric-conductor connector. No. 1,410,651; Mar. 28.
- Caps, Arthur W., assignor to The Piersen Manufacturing Co., Topeka, Kans. Timer casing. No. 1,410,649; Mar. 28.
- Caps, Arthur W., Kansas City, Mo., assignor to The Piersen Manufacturing Company, Topeka, Kans. Engine bed. No. 1,410,650; Mar. 28.
- Caps, Arthur W., assignor to The Piersen Manufacturing Company, Topeka, Kans. Radiator. No. 1,417,026; May 23.
- Caps, Arthur W., assignor to The Piersen Manufacturing Company, Topeka, Kans. Engine radiator. No. 1,417,027; May 23.
- Caps, Arthur W., assignor to The Piersen Manufacturing Company, Topeka, Kans. Engine-cylinder-cooling means. No. 1,417,028; May 23.
- Caps, Arthur W., Topeka, Kans., assignor, by mesne assignments, to O. D. Collis, Clinton, Iowa. Timber brush. No. 1,438,425; Dec. 12.
- Caps, John E., Wilmette, Ill. Liquid-treating apparatus. No. 1,413,898; Apr. 25.
- Capstan Glass Company. (See Kucera, Peter, assignor.)
- Capuano, Crescenzo, Los Angeles, Calif. Measuring device. No. 1,433,496; Oct. 24.
- Caracristi, Virginus Z., Bronxville, N. Y. Valve cut-off and speed indicator. No. 1,419,612; June 13.
- Caracristi, Virginus Z., Bronxville, N. Y., and A. F. Wallbillich, Newark, N. J. Valve cut-off and speed indicator for locomotives. No. 1,422,832; July 18.
- Caracristi, Virginus Z., Bronxville, N. Y., and C. H. Smoot, South Orange, N. J.; said Smoot assignor to Rateau Battu Smoot Engineering Corporation, New York, N. Y. Means for controlling the operation of steam boilers. No. 1,437,719; Dec. 5.
- Carafilidis, James, Sabraton, W. Va. Tin-sticker machine. No. 1,410,458; Mar. 21.
- Carapina, Matt, and F. Nevistich, Terry, S. Dak. Rail joint. No. 1,430,055; Sept. 26.
- Caraway, Emmett L., Manila, Ark. Automobile license tag. No. 1,410,992; Mar. 28.
- Carbic Manufacturing Company. (See Herron, William L., assignor.)
- Carbic Manufacturing Company. (See Martin, Edgar C., assignor.)
- Carbide & Carbon Chemicals Corporation. (See Curme, George O., Jr., assignor.)
- Carbide & Carbon Chemicals Corporation. (See Thompson, Harold E., assignor.)
- Carbone, Tito L., Charlottenburg, near Berlin, Germany. Economizer for inclosed arc lamps. No. 1,404,341; Jan. 24.
- Carboni Akt.-Ges. (See Pape, Max C. A. H., assignor.)
- Carbonit Aktiengesellschaft. (See Pape, Max, C. A. H., assignor.)
- Carbo-Oxygen Company. (See Harris, John, assignor.)
- Carbo-Oxygen Company. (See Rose, J. R., and Harris, assignors.)
- Carborundum Company, The. (See Hutchins, Otis, assignor.)
- Carborundum Company. (See Power, Henry R., assignor.)
- Carborundum Company, The. (See Tone, Frank J., assignor.)
- Card, Charles S., Denver, Colo. Combined drawbar and axle-supporting apparatus for car trucks. No. 1,419,716; June 13.

- Card, Frederic M., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Clutch and stop mechanism. No. 1,429,404; Sept. 19.
- Card, J. M., Lumber Co. (See Arn, Fred, assignor.)
- Cardellino, Michelangelo M., Racconigi per Cavallerleone, Italy. Magneto electric machine. No. 1,405,275; Jan. 31.
- Cardem Process Company, The. (See Carr, Oma, assignor.)
- Carden, Harry F., assignor to L. W. Carden, Lawrenceburg, Tenn. Cattle guard. No. 1,406,343; Feb. 14.
- Carden, Luther W. (See Carden, Harry F., assignor.)
- Cardin, William O., assignor to J. W. Freeman, Joplin, Mo. Dehydrator. No. 1,423,188; July 18.
- Cardwell, Allen D., Rockville Center, assignor to Western Electric Company, Incorporated, New York, N. Y. Portable electric lantern. No. 1,423,911; July 25.
- Careaga, Cora M., executrix. (See Careaga, John T., and R. A.)
- Careaga, John T. and R. A., deceased, San Jose, Calif.; C. M. Careaga, executrix. Expanding projectile. No. 1,405,276; Jan. 31.
- Careaga, Ramon A., deceased. (See Careaga, John T. and R. A.)
- Caretto, Louis, Baldwin, N. Y. Adjustable screen. No. 1,418,284; June 6.
- Carey-Gavey Syndicate Limited. (See Higginson, Kingsley, assignor.)
- Carey, Harry C., Carpenter, S. Dak. Dry-goods measure. No. 1,413,254; Apr. 18.
- Carey, Harry L., Richmond Hill, N. Y. Dirigible traffic indicator. No. 1,431,932; Oct. 17.
- Carey, James A., Pittsburgh, Pa. Plate twirler for engravers. No. 1,424,986; Aug. 8.
- Carey, James A., Pittsburgh, Pa. Oven for baking plates. No. 1,432,838; Oct. 24.
- Carey, James A., Pittsburgh, Pa. Oven for drying plates. No. 1,432,839; Oct. 24.
- Carey, Philip Manufacturing Company, The. (See Crabbs, Roscoe B., assignor.)
- Carey, Thomas W., jr., New Orleans, La. Denture reliner. No. 1,424,618; Aug. 1.
- Carey, Walter. (See Southgate, J. F., and Carey.)
- Carey, Walter C., Morris Plains, N. J. Hoisting hook. No. 1,434,991; Nov. 7.
- Carhart, George E. (See Lundstrom, Andrew J., assignor.)
- Carl, Max J., Cleveland, Ohio. Electrically-heated drying roll for printing presses. No. 1,433,674; Oct. 31.
- Carlberg, August E., assignor to Walden-Worcester, Inc., Worcester, Mass. Attachment for wrenches. No. 1,424,712; Aug. 1.
- Carle, Amos E. (See Frankland, Edwin, assignor.)
- Carle, Harold, Buffalo, N. Y., assignor to F. N. Burt Company, Limited, Toronto, Ontario, Canada. Labeling machine. No. 1,405,755; Feb. 7.
- Carle, Harold, Buffalo, N. Y., assignor to F. N. Burt Company, Limited, Toronto, Ontario, Canada. Drum machine. No. 1,429,324; Sept. 19.
- Carle, Harold, Buffalo, N. Y., assignor to F. N. Burt Company, Limited, Toronto, Ontario, Canada. Box and making same. No. 1,435,149; Nov. 14.
- Carleton, Charles R., Brooklyn, N. Y. Film cleaning and polishing machine. No. 1,405,277; Jan. 31.
- Carleton, Charles R., Brooklyn, N. Y. Perforating machine. No. 1,416,168; May 16.
- Carlile, Benner H., Independence, Kans. Valve or plug for oil containers. No. 1,429,566; Sept. 19.
- Carlin, Bernard, assignor of one-half to B. H. Meadows, Florida, Ala. Bridge radius rod and engine base. No. 1,435,104; Nov. 7.
- Carling Turbine Blower Co. (See Carlson, Axel W., assignor.)
- Carlino, Frank, Buffalo, N. Y. Tomato masher. No. 1,418,231; May 30.
- Carlisle, Fred, Tulsa, Okla. Bearing-cup puller. No. 1,429,567; Sept. 19.
- Carlisle, Fred B., Seattle, Wash. Friction tape fabric and producing the same. No. 1,402,918; Jan. 10.
- Carlisle Tire Corporation. (See McClurg, John S., assignor.)
- Carll, Addison B., New York, N. Y. Chain pipe wrench. No. 1,410,993; Mar. 28.
- Carll, Addison B., New York, N. Y. Dome cover for tank cars. No. 1,432,591; Oct. 17.
- Carlock, Fredrick. (See Frank, G. W., jr., and Carlock.)
- Carlton, Timothy. (See Gibbons, John W., assignor.)
- Carlozzo, Anthony, Yonkers, N. Y. Heel for shoes. No. 1,418,428; June 6.
- Carlquist, Nils C. A., Malmö, Sweden. Controllable self-discharging railway hopper car. No. 1,408,984; Mar. 7.
- Carlson, Alexander, New York, N. Y. Folding seat. No. 1,421,167; June 27.
- Carlson, Alfred and O. F., Rearville, Alberta, Canada. Wrench. No. 1,412,552; Apr. 11.
- Carlson, Androv H., assignor to The Prestoy Manufacturing Company, Bridgeport, Conn. Adjustable holder. (Reissue.) No. 15,431; Aug. 15.
- Carlson, Anthony E., Los Angeles, Calif. Railway crossing. No. 1,411,405; Apr. 4.
- Carlson, Axel. (See Swanson, P., and Carlson.)
- Carlson, Axel W., assignor to Coppus Engineering and Equipment Company, Worcester, Mass. Valve. No. 1,403,340; Feb. 28.
- Carlson, Axel W., assignor to Carling Turbine Blower Co., Worcester, Mass. Rotor. No. 1,417,029; May 23.
- Carlson, Carl A., Bridgeport, Conn. Windshield. No. 1,434,871; Nov. 7.
- Carlson, Carl A., Everett, assignor, by mesne assignments, to The Stafford Company, Readville, Boston, Mass. Weft feeler device for looms. No. 1,429,126; Sept. 12.
- Carlson, Carl O., Riverside, Calif. Hand truck. No. 1,422,254; July 11.
- Carlson, Carl W., Beloit, Wis. Fuse-plug puller. No. 1,410,888; Mar. 28.
- Carlson, Charles H., Minneapolis, Minn. Electric water heater. No. 1,433,698; Oct. 31.
- Carlson, Charles J., Helena, Mont. Tire. No. 1,409,151; Mar. 14.
- Carlson, Charles J., and A. W. Larson, Seattle, Wash. Extensible pole. No. 1,415,145; May 9.
- Carlson, Edward L., Denver, Colo. Music-roll cabinet. No. 1,423,078; July 18.
- Carlson, Emanuel, Yonkers, N. Y. Device for opening box covers. No. 1,409,926; Mar. 21.
- Carlson, Ernest H., Chicago, Ill. Protecting device for cashiers' cages. No. 1,434,872; Nov. 7.
- Carlson, Frank W., Chicago, Ill. Plumbing system. No. 1,417,660; May 30.
- Carlson, Gust. (See White, C. E., and Carlson.)
- Carlson, Gustaf, assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Switchboard signal. No. 1,421,403; July 4.
- Carlson, Gustaf H., Adrian, Mich. Haying implement. No. 1,439,942; Dec. 26.
- Carlson, Gustav A., assignor to The Boys Needle Company, Chicago, Ill. Pencil holder, etc. No. 1,408,863; Mar. 7.
- Carlson, Gustav A., assignor to The Boye Needle Company, Chicago, Ill. Holder for pencils, fountain pens, etc. No. 1,412,505; Apr. 11.
- Carlson, Gustav W., assignor to The Torbensen Axle Company, Cleveland, Ohio. Wheel and axle construction. No. 1,417,972; May 30.
- Carlson, Gustave A., Detroit, Mich. Polishing machine. No. 1,430,624; Oct. 3.
- Carlson, Gustave A., Detroit, Mich. Work-holding device. No. 1,430,625; Oct. 3.
- Carlson, Herman B. (See Rasmussen, L. S., and Carlson.)
- Carlson, Hjalmar, Woonsocket, R. I. Dog driver. No. 1,405,898; Feb. 7.
- Carlson, Hjalmar G. (See Rockwood, G. I., and Carlson.)
- Carlson, Hjalmar G., assignor, by mesne assignments, to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass. Upsetting tool. No. 1,402,919; Jan. 10.
- Carlson, Hjalmar G., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass. Making socket-wrench heads. No. 1,430,004; Sept. 26.
- Carlson, Ivar, Leonminster, assignor of one-third to G. Cahill, Lowell, Mass., and one-third to J. H. Lynch, Pawtucket, R. I. Aeroplane. No. 1,405,667; Feb. 7.
- Carlson, Jahan G., assignor to Burson Knitting Company, Rockford, Ill. Tension device. No. 1,407,731; Feb. 28.
- Carlson, Jahan G., assignor to Burson Knitting Company, Rockford, Ill. Automatic stop for knitting machines. No. 1,414,546; May 2.
- Carlson, John P., The Dalles, Ore. Railway brake. No. 1,424,393; Aug. 1.
- Carlson, John W., assignor to Chicago Novelty Mfg. Co., Chicago, Ill. Toy. No. 1,422,833; July 18.
- Carlson, Julius, Brooklyn, N. Y. Cap. No. 1,423,829; July 25.
- Carlson, Julius E., Edgewater, N. J. Drill press. No. 1,436,477; Nov. 21.
- Carlson, Lewis H. (See Bye, M., and Carlson.)
- Carlson, Oscar. (See Eller, H. M., and Carlson.)
- Carlson, Oscar, Boston, Mass. Bottle stopper. No. 1,425,237; Aug. 8.
- Carlson, Oscar F. (See Carlson, Alfred and O. F.)
- Carlson, Oscar J., A. Fransen, and J. Fransen, Chicago, Ill. Rail-spike retainer. No. 1,438,896; Dec. 12.
- Carlson, Peter, Dover, assignor of one-fourth to I. J. Rice, St. Paul, Minn. Drip catcher. No. 1,410,889; Mar. 28.
- Carlson, Theodore, Stillwater, Wash. Hoisting device. No. 1,434,478; Nov. 7.
- Carlson, Walter W., Manhattan, Kans. Clothes wringer. No. 1,435,629; Nov. 14.
- Carlson, Wendell L. (See Hanson, E. C., and Carlson.)
- Carlson, William A. (See Matson, David E., assignor.)
- Carlson, William R., Warrenton, Ore. Beet harvester. No. 1,408,986; Mar. 7.
- Carlstedt, Sven M., assignor to Aktiebolaget Lux, Stockholm, Sweden. Waxing or polishing brush. No. 1,424,879; Aug. 8.
- Carlucci, Rocco A., West New York, N. J. Banjo ukelele. No. 1,409,078; Mar. 7.
- Carlucci, Rocco A., West New York, N. J. Banjo. No. 1,419,818; June 13.
- Carlyle, Clyde A., Detroit, assignor of one-half to B. D. Cleghorn, River Rouge, Mich. Flytrap. No. 1,424,619; Aug. 1.
- Carmack, Prescott H., Chico, Calif. Wheel guards. No. 1,411,840; Apr. 4.
- Carman, Charles L., assignor to J. E. Kennedy, New York, N. Y. Crusher. No. 1,436,358; Nov. 21.
- Carman, Edwin C., New Orleans, La. Stovepipe construction. No. 1,440,273; Dec. 26.

Alphabetical list of patentees—Continued.

- Carman, Frank V., Oakland, Calif. Car mover. No. 1,408,561; Mar. 7.
- Carman, Frank V., Oakland, Calif. Railway-tie-ading machine. No. 1,427,516; Aug. 29.
- Carmean, James H. (See Carmean, Samuel M. and J. H.)
- Carmean, James H., Kansas City, Mo. Hand level. No. 1,417,496; May 30.
- Carmean, Samuel M. and J. H., Kansas City, Mo. Electric heater. No. 1,416,688; May 23.
- Carmel, Joseph, assignor to S. Orenbuch, New York, N. Y. Radiator valve. No. 1,426,150; Aug. 15.
- Carmichael, Andrew R., assignor of one-third to J. H. Pearson and one third to J. J. Scott, Indianapolis, Ind. Automatic attachment for power-driven machines. No. 1,431,723; Oct. 10.
- Carmichael, Drewey A., Americus, Ga. Water motor. No. 1,429,842; Sept. 19.
- Carmichael, Duncan, Ancoats, Manchester, England. Acetylene-gas-lighting plant. No. 1,422,030; July 4.
- Carmichael, James H., Cedar Falls, Wash. Smoke-fuel attachment. No. 1,417,030; May 23.
- Carmichael, Peter M., New York, N. Y. Magazine fuse plug. No. 1,426,040; Aug. 15.
- Carmichael, Thomas B. (See Ockleston, W. H., and Carmichael.)
- Carnall, Fredrick W., Cleveland, Ohio. Sewing awl. No. 1,409,668; Mar. 14.
- Carnation Milk Products Company. (See Grindrod, George, assignor.)
- Carnation Milk Products Company. (See Kinzer, Philip G., assignor.)
- Carnation Milk Products Company. (See Stevens, C. S., and Bauman, assignors.)
- Carnation Milk Products Company. (See Stevens, Clarence S., assignor.)
- Carnedix, Elizabeth. (See Brauner, Ada A., assignor.)
- Carnegie, Alfred Q. (See Parsons, C. A., Carnegie, and Bone.)
- Carnes Artificial Limb Company. (See Carnes, William T., assignor.)
- Carnes, William T., assignor to Carnes Artificial Limb Company, Kansas City, Mo. Artificial hand mechanism. No. 1,402,476; Jan. 3.
- Carney, James J. Bethel, Vt., assignor, by mesne assignments, to T & K Industries, Ltd., Montreal, Quebec, Canada. Lubricating device. No. 1,434,589; Nov. 7.
- Carney, Ralph J., Boston, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,431,566; Oct. 10.
- Carrick, G. W., Co. (See Neun, Dora E., assignor.)
- Carollo, Philip. (See Bommarius, F. H., and Carollo.)
- Caron Brothers. (See Lavallee, Joseph O. W., assignor.)
- Caron, Philias. (See Caron, Wilfred and P.)
- Caron, Wilfred and P., Rumford, Me. Sled attachment for wheeled vehicles. No. 1,438,359; Dec. 12.
- Caronia, Frank J., New York, N. Y. Stepladder. No. 1,415,791; May 9.
- Carothers, John N., Anniston, assignor to Federal Phosphorus Company, Birmingham, Ala. Recovery of the phosphorus content of phosphatic material. No. 1,410,550; Mar. 28.
- Carpenter, Campbell C., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Relief mechanism for storage batteries. No. 1,403,589; Jan. 17.
- Carpenter, Campbell C., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Preparing paste. No. 1,416,787; May 23.
- Carpenter, Campbell C., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Storage-battery plates. No. 1,416,788; May 23.
- Carpenter, Charles C., assignor to The Samuel C. Tatum Company, Cincinnati, Ohio. Filing tray or drawer. No. 1,424,080; July 25.
- Carpenter, Charles E., Philadelphia, Pa. Armchair ash receiver. No. 1,433,782; Oct. 31.
- Carpenter, Chester E., Aberdeen, S. Dak. Combination tool. No. 1,435,150; Nov. 14.
- Carpenter, Cranston H., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. No. 1,409,669; Mar. 14.
- Carpenter, Cranston H., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Three-phase crucible furnace. No. 1,415,989; May 16.
- Carpenter, Eugene R., Ansonville, N. C. Fluid clutch and transmission. No. 1,436,753; Nov. 28.
- Carpenter, Francis W., assignor to Fosston-Carpenter Company, St. Paul, Minn. Driving mechanism for washing machines. No. 1,418,429; June 6.
- Carpenter, Herbert L., Brooklyn, N. Y. Container. No. 1,414,861; May 2.
- Carpenter, John, North Auckland, New Zealand. Propeller. No. 1,438,094; Dec. 5.
- Carpenter, Lee B., assignor to The Carpenter Shoe Company, Inc., Rochester, N. Y. Shoe. No. 1,436,696; Nov. 28.
- Carpenter, Paul. (See Ellis, Ridsdale, assignor.)
- Carpenter, Quincy G., Mendon, Ohio. Fencepost form. No. 1,438,517; Dec. 12.
- Carpenter, Robert S., Chicago, Ill. Live-bait box. No. 1,439,690; Dec. 26.
- Carpenter Shoe Company, The. (See Carpenter, Lee B., assignor.)
- Carpino, Frank W., et al. (See Ceserani, John, assignor.)
- Carples, Victor H. (See Seelig, A. E., and Carples.)
- Carmill, John F., and G. W. Troop, assignors to The North & Judd Manufacturing Company, New Britain, Conn. Buckle. No. 1,415,017; May 9.
- Carmill, John F., and G. W. Troop, assignors to The North & Judd Manufacturing Company, New Britain, Conn. Buckle. No. 1,438,897; Dec. 12.
- Carmill, John F., assignor to The North & Judd Manufacturing Company, New Britain, Conn. Buckle. No. 1,438,898; Dec. 12.
- Carr, C. M., Dental Manufacturing Company. (See Moseler, Jennie S., assignor.)
- Carr, Elza B. (See Thompson, E. B., and Carr.)
- Carr Fastener Company. (See Carney, Ralph J., assignor.)
- Carr Fastener Company. (See Carr, Fred S., assignor.)
- Carr Fastener Company. (See Carr, Moses F., assignor.)
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,433,786; Oct. 31.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,433,787; Oct. 31.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,433,788; Oct. 31.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,433,789; Oct. 31.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,433,790; Oct. 31.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,433,791; Oct. 31.
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- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,433,795; Oct. 31.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,433,796; Oct. 31.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,433,797; Oct. 31.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,433,798; Oct. 31.
- Carr, George J., et al., trustees. (See Heslewood, W. R., and Mocine, assignors.)
- Carr, James, Syracuse, N. Y. Tool chuck. No. 1,428,754; Sept. 12.
- Carr, James H., and M. A. Powers, Winchester, Mass. Lock nut. No. 1,406,169; Feb. 14.
- Carr, Judd, Frankfort, Ind. Display rack. No. 1,404,270; Jan. 24.
- Carr-Lowrey Glass Company. (See Newell, Louis B., assignor.)
- Carr, Moses F., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Stud. No. 1,433,783; Oct. 31.
- Carr, Moses F., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,433,784; Oct. 31.
- Carr, Moses F., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,433,785; Oct. 31.
- Carr, Oma, assignor to The Cardem Process Company, New York, N. Y. Evaporating apparatus. No. 1,405,756; Feb. 7.
- Carr, Thomas J., Newcastle-upon-Tyne, England. Ship's davit. No. 1,422,175; July 11.
- Carr, William C., Buffalo, N. Y. Elevator truck. No. 1,407,124; Feb. 21.
- Carradus, Thomas W., and D. Nield, Ancoats, Manchester, England. Means for facilitating the removal of pulleys, wheels, and the like from shafts. No. 1,402,477; Jan. 3.
- Carrasco, Oreste, assignor to Societe Generale Delle Conserve Alimentari Cirio, St. Giovanni di Teduccio, near Naples, Italy. Device for testing preserved foods. No. 1,434,771; Nov. 7.
- Carre, Francis D., Rockford, Ill. Combined truck and workbench. No. 1,429,926; Sept. 26.
- Carrel, Alexander M., San Francisco, Calif. Heel retainer for low shoes. No. 1,408,721; Mar. 7.
- Carrey, John O., assignor to Carrey Rotary Engine Company, St. Louis, Mo. Turbine. No. 1,415,219; May 9.
- Carrey Rotary Engine Company. (See Carrey, John O., assignor.)
- Carrico, Noel, Sidney, Mont., assignor of one-half to F. C. Hughes, Evanston, Ill. Mending electric resistance elements. No. 1,415,524; May 9.
- Carrico, William G., Washington, D. C. Air-inlet-control means for furnaces. No. 1,418,776; June 6.
- Carrie Gyroscopic Corporation, The. (See Rossiter, George A., assignor.)

Alphabetical list of patentees—Continued.

- Carrie, James, Butler, Pa., assignor to W. D. Sawyer, Milwaukee, Wis. Grinding and polishing machine. No. 1,430,214; Sept. 26.
- Carrier, Carl F. P., Philadelphia, Pa. Piston packing ring. No. 1,403,008; Jan. 10.
- Carrier, Carl F. P., Philadelphia, Pa. Automatic electrical controlling device. No. 1,422,415; July 11.
- Carrier Engineering Corporation. (See Harrison, Burt S., assignor.)
- Carrigue, William, & Company. (See Bodman, John W., assignor.)
- Carrington, William D., Inver Grove, Minn. Signal flag. No. 1,420,967; June 27.
- Carris, Edward C., assignor to Carris Manufacturing Company, Washington, Iowa. Button-blank-grinding machine. No. 1,419,489; June 13.
- Carris Manufacturing Company. (See Carris, Edward C., assignor.)
- Carrm, Bazel E., New York, N. Y. Convertible automobile body. No. 1,405,486; Feb. 7.
- Carrm, Bazel E., New York, N. Y. Convertible vehicle body. No. 1,413,965; Apr. 25.
- Carrm, Bazel E., New York, N. Y. Convertible vehicle body. No. 1,426,153; Aug. 15.
- Carroll, Alfred F., New York, N. Y. Reed for accordions. No. 1,408,985; Mar. 7.
- Carroll, Andrew L., assignor of one-half to J. W. Chambers, St. Louis, Mo. Car wheel. No. 1,431,370; Oct. 10.
- Carroll, Arthur L. (See Gale, Walter M. A., assignor.)
- Carroll, Arthur V., Cincinnati, Ohio. Lathe. No. 1,414,176; Apr. 25.
- Carroll, Carl H., Arlington, Mass. Closed pocket for panels and forming same. No. 1,419,490; June 13.
- Carroll, Clarence W. (See Nichols, E. B., and Carroll.)
- Carroll, Elbert H., assignor to Morgan Construction Company, Worcester, Mass. Machine for planing gears. No. 1,436,481; Nov. 21.
- Carroll, Frank H., Los Angeles, Calif. Vegetation-protecting structure. No. 1,407,125; Feb. 21.
- Carroll, Henry R. (See Crider, Walter R., assignor.)
- Carroll, Herron G., Ayr, Nebr. Antimirring device. No. 1,425,448; Aug. 8.
- Carroll, Houston M., Sr., San Antonio, Tex. Compression tray. No. 1,404,271; Jan. 24.
- Carroll, James A., assignor of one-third to W. B. Paine, Bentonville, Ark. Sectional tire fastener. No. 1,431,097; Oct. 3.
- Carroll, James H., Charlotte, N. C. Bottled-drink-vending machine. No. 1,419,219; June 13.
- Carroll, James H., Charlotte, N. C. Bottled-drink-vending machine. No. 1,419,220; June 13.
- Carroll, John D. (See Tregoe, B. B., and Carroll.)
- Carroll, John D., West Lafayette, Ind. Pump. No. 1,437,464; Dec. 5.
- Carroll, Owen L., Cleveland, Ohio. Heating apparatus for vapor-bath devices. No. 1,410,164; Mar. 21.
- Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose ether solvent and composition. No. 1,405,487; Feb. 7.
- Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether solvent and composition. No. 1,411,708; Apr. 4.
- Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose ether solvent and composition. No. 1,425,173; Aug. 8.
- Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether solvent and composition. No. 1,429,188; Sept. 12.
- Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether solvent and composition. No. 1,431,905; Oct. 10.
- Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Composition containing cellulose nitrate and cellulose ether and solvent used therein. No. 1,431,906; Oct. 10.
- Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether solvent and composition. No. 1,434,426; Nov. 7.
- Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether solvent and composition. No. 1,434,427; Nov. 7.
- Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether solvent and composition. No. 1,437,792; Dec. 5.
- Carroll, William P., Horton, Kans. Metal-working tool. No. 1,418,125; May 30.
- Carron, James A., assignor to Art in Buttons, Inc., Rochester, N. Y. Saw-filing machine. No. 1,436,954; Nov. 21.
- Carscadin, Charles A. (See Woodman, George A., assignor.)
- Carskaddon, James K., Pearson, Wash. Muffle furnace. No. 1,432,667; Oct. 17.
- Carson, Clarence, New Rochelle, N. Y., assignor to Johns-Manville Incorporated. Trip reset for speedometers. No. 1,405,899; Feb. 7.
- Carson, Clarence, New Rochelle, N. Y., assignor to Johns-Manville Incorporated. Hub odometer. No. 1,424,000; July 25.
- Carson, Hugh J., Fairfax, Minn. Feed regulator. No. 1,426,041; Aug. 15.
- Carson, John R., Montclair, N. J., assignor to American Telephone and Telegraph Company. Frequency-control system. No. 1,403,841; Jan. 17.
- Carson, John R., New York, N. Y., assignor to American Telephone and Telegraph Company. Method of and means for modulating carrier oscillations. No. 1,410,890; Mar. 28.
- Carson, John R., New York, N. Y., assignor to American Telephone and Telegraph Company. Translating circuit. No. 1,418,285; June 6.
- Carson, Pirie, Scott and Company. (See Hartrick, George, assignor.)
- Carson, Robert A., Kansas City, Mo. Valve grinder. No. 1,436,150; Nov. 21.
- Carson, Robert M., and J. J. Leahy, Philadelphia, Pa. Fabric. No. 1,430,360; Sept. 26.
- Carson, Thomas P., Breckenridge, Tex. Hydraulic elevator. No. 1,412,920; Apr. 18.
- Carson, Walter H. (See Stanley, J., and Carson.)
- Carstarphen, Frederick C., Trenton, N. J., assignor to The American Steel and Wire Company of New Jersey. Aerial tramway. No. 1,422,255; July 11.
- Carstarphen, Frederick C., Trenton, N. J., assignor to The American Steel and Wire Company of New Jersey. Lumber carrier. No. 1,436,151; Nov. 21.
- Carstens, Alexander B., Monterey, Mexico, assignor to The American Metal Company, Limited. Rotary kiln. No. 1,415,990; May 16.
- Cartasso, Giacomo, Oakland, Calif. Signal. No. 1,410,165; Mar. 21.
- Carter, Arthur, Birmingham, England. Free wheel. No. 1,412,336; Apr. 11.
- Carter, Arthur J. (See Richards, Paul P. E., assignor.)
- Carter, Carnie B., and A. E. Coxe, Pittsburgh, Pa., assignors, by mesne assignments, to S. Karpen & Bros. Producing active methylene bodies. No. 1,423,753; July 25.
- Carter, Chapel S. and H. P., assignors to The H. C. Cook Co., Ansonia, Conn. Finger-nail trimmer. No. 1,436,010; Nov. 21.
- Carter, Charles E., Gillespie, Ill. Operating mechanism for mine doors. No. 1,419,357; June 13.
- Carter, Charles J., Kansas City, Mo. Flooring. No. 1,412,506; Apr. 11.
- Carter, Charles J., Kansas City, Mo. Nail set. No. 1,412,507; Apr. 11.
- Carter, Clarence W., assignor to Carter Mayhew Manufacturing Company, Minneapolis, Minn. Grain separator. No. 1,437,042; Nov. 28.
- Carter, Clark E. (See Baker, W. H., and Carter.)
- Carter, Clark E., Montreal, Quebec, Canada. Camera. No. 1,407,973; Feb. 21.
- Carter, Clark E., Montreal, Quebec, Canada, assignor to Aladdin Cinema Co., Inc., Malone, N. Y. Cinematographic apparatus. No. 1,412,508; Apr. 11.
- Carter, Clark E., Montreal, Quebec, Canada, assignor to Aladdin Cinema Co., Inc., Malone, N. Y. Cinematographic machine. No. 1,412,509; Apr. 11.
- Carter, Daniel. (See Roach, P. J., and Carter.)
- Carter, Douglas G., Picton, Ontario, Canada. Convertible bolt. No. 1,414,979; May 2.
- Carter, Edward V., and A. W. Sprague, Huntington, W. Va. Jack for removing pinions, etc., from shafts. No. 1,403,893; Jan. 17.
- Carter, Floyd R., O. A. Otten, and J. C. Willard, Fairbury, Nebr. Ice-cream-brick center punch. No. 1,429,405; Sept. 19.
- Carter, Frank E., assignor to The Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic straw stacker. No. 1,415,792; May 9.
- Carter, George J., Bromborough, and L. G. McFarlane, Liverpool, England. Internal-combustion engine. No. 1,429,016; Sept. 12.
- Carter, George W., and R. B. Hayden, San Angelo, Tex. Casing-pulling device. No. 1,418,533; June 6.
- Carter, Harold H., Thornton Heath, England. Motor fire engine and rail coach or truck. No. 1,405,278; Jan. 31.
- Carter, Hedley P. (See Carter, Chapel S. and H. P.)
- Carter, Horace D., Multnomah, Oreg. Swimming pool. No. 1,403,009; Jan. 10.
- Carter, J. B., et al. (See Wysong, Bennett C., assignor.)
- Carter, J. Barrett, et al. (See Wrenn, H. A., and Phillips, assignors.)
- Carter, J. C., et al. (See Strong, E., and Tarbutton, assignors.)
- Carter, Jack B., trustee. (See Horney, Jeffrey C., assignor.)
- Carter, James D., Chicago, Ill. Proportional scaling instrument. No. 1,422,925; July 18.
- Carter, James W., Minden, La. Agricultural implement. No. 1,414,931; May 2.
- Carter, Joseph, Saskatoon, Saskatchewan, Canada. Multi-magazine self-locking rifle. No. 1,420,471; June 20.
- Carter, Lester L., San Francisco, Calif. Oil, gas, and water separator. No. 1,426,955; Aug. 22.
- Carter, Lionel A., St. Louis, Mo. Power-transmission mechanism. No. 1,414,622; May 2.
- Carter, Lionel A., assignor of one-third to T. O. Moloney and one-third to J. J. Mullen, St. Louis, Mo. Transformer casing. No. 1,429,927; Sept. 26.
- Carter, Martin E., Philadelphia, Pa. Strainer for sugar juices. No. 1,422,737; July 11.
- Carter Mayhew Manufacturing Company. (See Carter, Clarence W., assignor.)
- Carter, Oscar M., Houston, Tex. Drill. No. 1,412,101; Apr. 11.

Alphabetical list of patentees—Continued.

- Carter, Ralph B., Haworth, N. J. Pump. No. 1,410,994; Mar. 28.
- Carter, Ray L., Syracuse, N. Y. Shaping device. No. 1,433,497; Oct. 24.
- Carter, Robert D. (See Drake, T., and Carter.)
- Carter, Robert D., Broadheath, England, assignor to Linotype and Machinery Limited, London, England. Distributing mechanism of typographical composing and casting machines. No. 1,427,517; Aug. 29.
- Carter, Robert E., Sykesville, Md. Yieldable drive shaft. No. 1,416,264; May 16.
- Carter, Robert E., Sykesville, Md. Can closure. No. 1,417,141; May 23.
- Carter, Wallace E., Dover, England. Convertible perambulator and push chair. No. 1,423,912; July 25.
- Carter, Walter J. (See Lamp, Arthur W., assignor.)
- Carter, Walter M., Portsmouth, Va. Lamp socket. No. 1,416,607; May 16.
- Carter, Wiley H. (See Alkire, L. E., and Carter.)
- Carter, William, Company, The. (See Cunningham, Samuel, assignor.)
- Carter, William, Company, The. (See Redmond, Harriet L., assignor.)
- Carter, William C., St. Louis, Mo. Fuel-supply apparatus for internal-combustion engines. No. 1,423,913; July 25.
- Carter, Winthrop L., Nashua, N. H. Method of and apparatus for waxing paper. No. 1,429,928; Sept. 26.
- Cartier, Charles E., et al. (See Putney, William W., assignor.)
- Cartier, Inc. (See Genaille, Alexandre, assignor.)
- Cartier, Leo, Oakland, Calif. Cushion tire. No. 1,403,289; Jan. 10.
- Cartledge, Frank, Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. No. 1,417,716; May 30.
- Cartledge, Frank, Claremont, N. H., assignor to Sullivan Machinery Company. Transmission mechanism. No. 1,418,126; May 30.
- Cartledge, Frank, Claremont, N. H., assignor to Sullivan Machinery Company. Clutch mechanism. No. 1,434,772; Nov. 7.
- Cartmill, Holley, Spokane, Wash. Spark plug. No. 1,429,017; Sept. 12.
- Cartmill, Orrell E., Stevens Point, Wis. Trunk attachment. No. 1,402,211; Jan. 3.
- Cartoning Machinery Corporation. (See Andrews, J. W., and Evans, assignors.)
- Cartoning Machinery Corporation. (See Evans, H. L., and Andrews, assignors.)
- Cartter, William G., and E. D. Arthur, Arcadia, Calif. Solar-heat-collecting apparatus. No. 1,425,174; Aug. 8.
- Cartuschka, Jalean W., New York, N. Y. Butter cutter. No. 1,436,236; Nov. 21.
- Cartwright, Burr M., assignor of one-half to M. S. Getman, Syracuse, N. Y. Street-indicating apparatus for street cars. No. 1,435,696; Nov. 14.
- Caruelle, Georges A., Paris, France. Multicellular arrangement for the raising of liquids. No. 1,417,886; May 30.
- Carvalho, Leslie E. N., Brooklyn, N. Y. Receptacle closure. No. 1,413,257; Apr. 18.
- Carvalho, Leslie E. N., assignor to Closure Service Corporation, Brooklyn, N. Y. Receptacle closure. No. 1,413,653; Apr. 25.
- Carvalho, Leslie E. N., assignor to Closure Service Corporation, Brooklyn, N. Y. Receptacle closure. No. 1,413,654; Apr. 25.
- Carvalho, Leslie E. N., and A. L. Merolle, Brooklyn, N. Y.; said Merolle assignor to said Carvalho. Receptacle closure. No. 1,413,256; Apr. 18.
- Carver, Fred S., Newark, N. J. Compression pump. No. 1,419,221; June 13.
- Cary, Edward D., New York, N. Y. Mold-handling apparatus. No. 1,425,449; Aug. 8.
- Cary, Edwin H., Stockton, Calif. Constructing streets and highways. No. 1,410,733; Mar. 28.
- Cary, George W., Greenfield, Mass. Saw guide. No. 1,417,973; May 30.
- Cary, Harry E., and T. T. McGuire, Oakland, Calif. Dirigible headlight. No. 1,417,497; May 30.
- Cary, James H., and J. D. McMurry, Memphis, Tenn. Combination collar and hame. No. 1,402,920; Jan. 10.
- Cary Manufacturing Co. (See Cary, S. C., and Betton, assignors.)
- Cary Manufacturing Co. (See Cary, Spencer C., assignor.)
- Cary Manufacturing Co. (See Frech, William F., assignor.)
- Cary, Spencer C., assignor to Cary Manufacturing Company, Brooklyn, N. Y. Implement for joining package binders. No. 1,411,109; Apr. 4.
- Cary, Spencer C., assignor to Cary Manufacturing Company, Brooklyn, N. Y. Band tightener. No. 1,412,165; Apr. 11.
- Cary, Spencer C., Brooklyn, assignor to Cary Manufacturing Co., New York, N. Y. Wire package binder. No. 1,419,110; June 6.
- Cary, Spencer C., assignor to Cary Manufacturing Co., Brooklyn, N. Y. Bundled wire. No. 1,423,478; July 18.
- Cary, Spencer C., assignor to Cary Manufacturing Co., Brooklyn, N. Y. Bundled wire. No. 1,427,518; Aug. 29.
- Cary, Spencer C., assignor to Cary Manufacturing Co., Brooklyn, N. Y. Bundled wire. No. 1,427,519; Aug. 29.
- Cary, Spencer C., assignor to Cary Manufacturing Co., Brooklyn, N. Y. Implement for binding shipping packages. No. 1,431,098; Oct. 3.
- Cary, Spencer C., Brooklyn, and J. M. Betton, Mount Vernon, assignors to Cary Manufacturing Co., Brooklyn, N. Y. Means for cleaning metals preparatory to welding. No. 1,419,717; June 13.
- Cary, William J. (See Downey, Richard F., assignor.)
- Caryl, Harry S., assignor of one-half to L. B. Landau, Scranton, Pa. Horseshoe pad. No. 1,407,379; Feb. 21.
- Carzis, Demetrius G., et al. (See Anthos, Frank H., assignor.)
- Carzis, James, et al. (See Anthos, Frank H., assignor.)
- Carzis, John G., et al. (See Anthos, Frank H., assignor.)
- Casablanca, Fernando, Sabadell, Spain. Drawing mechanism for textile rovings, with feeding belts. No. 1,416,608; May 16.
- Casablanca, Fernando, Sabadell, Spain. Drawing apparatus for textile rovings. No. 1,440,274; Dec. 26.
- Casale, Luigi, Rome, Italy, assignor for himself and René Leprestre, New York, N. Y. Catalytic apparatus for the synthesis of ammonia. No. 1,408,987; Mar. 7.
- Casares, Miguel G., Santiago, Spain. Method of and apparatus for recording arterial pulsations. No. 1,413,389; Apr. 18.
- Case, Arthur E., assignor to Delta Electric Company, Marion, Ind. Electric lamp. No. 1,428,755; Sept. 12.
- Case, Arthur E., assignor to Delta Electric Company, Marion, Ind. Portable electric lamp. No. 1,430,939; Oct. 3.
- Case, Arthur F., assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Car dumper. No. 1,407,926; Feb. 28.
- Case, Arthur F., assignor to Wellman-Seaver-Morgan Company, Cleveland, Ohio. Car blocking for car-dumper cradles. No. 1,427,090; Aug. 29.
- Case, Arthur F., assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Fueling barge. No. 1,427,091; Aug. 29.
- Case, Arthur F., assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Car dumper. No. 1,439,866; Dec. 26.
- Case, Francis M., Cleveland, assignor to The Hoover Suction Sweeper Company, New Berlin, Ohio. Suction sweeper. No. 1,408,074; Feb. 28.
- Case, Francis M., Cleveland, Ohio, assignor, by mesne assignments, to The Foote-Burt Company, Washing and wringing machine. No. 1,410,652; Mar. 28.
- Case, Francis M., assignor to The Shelby Supply and Manufacturing Company, Cleveland, Ohio. Coin-controlled vending machine. No. 1,414,502; May 2.
- Case, Francis M., assignor to E. C. McKay, Cleveland, Ohio. Loader for machine-gun magazines. No. 1,436,083; Nov. 21.
- Case, George W., and J. W. Roberts, Passaic, N. J. Machine for aligning the flanges of traylike articles. No. 1,424,280; Aug. 1.
- Case, Harry J., Potosi, Wis. Tractor drawbar. No. 1,414,457; May 2.
- Case, Henry M., assignor to The Cincinnati Stamping Company, Cincinnati, Ohio. Ventilator. No. 1,412,607; Apr. 11.
- Case, J. I., Plow Works Company. (See Hendrickson, R. O., and Moree, assignors.)
- Case, J. I., Plow Works Company. (See Hendrickson, Robert O., assignor.)
- Case, J. I., Threshing Machine Company. (See Caughey, Robert C., assignor.)
- Case, J. I., Threshing Machine Company. (See Crawford, John F., assignor.)
- Case, J. I., Threshing Machine Company. (See Davies, David P., assignor.)
- Case, J. I., Threshing Machine Company. (See Krause, Norman R., assignor.)
- Case, J. I., Threshing Machine Company. (See MacGregor, W. F., and Krause, assignors.)
- Case, John J., assignor of one-half to J. J. Wright, Saratoga Springs, N. Y. Throttle regulator. No. 1,404,009; Jan. 17.
- Case, John J., assignor to Baker Manufacturing Corporation, Saratoga Springs, N. Y. Acid line for paper mills. No. 1,426,956; Aug. 22.
- Case, Joseph E. (See Halliday, George, assignor.)
- Case, Maxwell, Evanston, Ill. Chart for recording competitive sales. No. 1,439,867; Dec. 26.
- Case, Rolland T., La Crosse, Wis. Method of and apparatus for metal casting. No. 1,429,568; Sept. 19.
- Case, Theodore W., Scipio, N. Y. Electrical device. No. 1,406,149; Feb. 7.
- Case, Theodore W., Scipio, N. Y. Signaling system. No. 1,412,385; Apr. 11.
- Casebeer, Alvin, Heppner, Oreg. Saw setter. No. 1,439,144; Dec. 19.
- Casein Manufacturing Company, The. (See Dunham, Andrew A., assignor.)
- Caselle, Luigi, et al. (See Caselle, Luigi, assignor.)
- Casello, Joseph. (See Currie, Thomas D., assignor.)
- Casey, Charles C., assignor to Work Organizer Specialties Company, Detroit, Mich. Sorting device. No. 1,439,793; Dec. 26.
- Casey, Francis W., Rockland, Mass. Firewood-cutting machine. No. 1,438,943; Dec. 19.
- Casey-Hedges Co., The. (See Stimmel, Frederick C., assignor.)
- Casey, Thomas I., San Francisco, Calif. Dehydrator. No. 1,426,816; Aug. 22.

- Casgrain, Charles E., Chicago, Ill. Attachment for buttonhole machines. No. 1,404,372; Jan. 24.
- Casgrain, Charles E., Chicago, Ill. Buttonhole-stitching machine. No. 1,411,953; Apr. 4.
- Casgrain, Louis A., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Grinding machine. No. 1,410,551; Mar. 28.
- Casgrain, Louis A., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for applying foxing to rubber shoes. No. 1,439,794; Dec. 26.
- Cashman, John C., Baldwin Park, Calif. Pruning knife. No. 1,439,225; Dec. 19.
- Cashmer, Jacob, Denver, Colo. Nut and bolt lock. No. 1,433,675; Oct. 31.
- Casler, Herman, Canastota, N. Y. Drill chuck. No. 1,432,278; Oct. 17.
- Casler, John C., Chicopee Falls, Mass. Feeding attachment for stokers and the like. No. 1,415,146; May 9.
- Casmire, Frederick B., Chanute, Kans. Mop. No. 1,420,180; June 20.
- Cason, Charles S., Oakland, Calif. Lather's hatchet. No. 1,426,151; Aug. 15.
- Cason, Louisa B., Cincinnati, Ohio. Hair-straightening comb. No. 1,413,255; Apr. 18.
- Casorso, Napoleon P., and C. Vacher, Santa Barbara, Calif. Nozzle. No. 1,417,031; May 23.
- Caspari, Karl, Frankfurt-on-the-Main-Ginnheim, Germany. Tensioning peg for stringed instruments. No. 1,422,738; July 11.
- Casper, Albert. (See Nixon, Albion K., assignor.)
- Casper, Frank L., Howes Cave, N. Y. Graphophone stop. No. 1,434,866; Nov. 7.
- Casper, William L., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Electric circuit. No. 1,432,965; Oct. 24.
- Casperson, Carl S., New Britain, Conn. Combination drawbolt and lock. No. 1,410,995; Mar. 28.
- Casperson, Karl A. (See Gustafson, G., Jungmarker, and Casperson.)
- Cassady, George, New Westminster, British Columbia, Canada. Speed-change mechanism. No. 1,409,523; Mar. 14.
- Cassady, John, assignor to Cassady Specialty Company, Ritzville, Wash. Circulating-air heater. No. 1,402,728; Jan. 3.
- Cassady Specialty Company. (See Cassady, John, assignor.)
- Cassalette, Eddy, Berlin-Friedenau, Germany. Device for controlling the exhaust of motor cars and the like. No. 1,405,900; Feb. 7.
- Cassedy, William M., Cape May, N. J. Toothbrush. No. 1,405,279; Jan. 31.
- Cassell, Oscar R., New York, N. Y. Flying machine. No. 1,406,344; Feb. 14.
- Cassidy, Frederick F., et al., trustee. (See St. John, George I., assignor.)
- Cassidy, Gabriel J., Hastings, Minn. Sprayer nozzle. No. 1,428,530; Sept. 12.
- Cassidy, George L., et al. (See Davis, Mortimer D., assignor.)
- Cassidy, John P., Aurora, Ontario, Canada. Pipe lifter. No. 1,420,621; June 27.
- Cassidy, Louis T., Norwich, Conn. Surgical appliance. No. 1,438,899; Dec. 12.
- Cassutt, Casper J. (See Hueber, Henry, assignor.)
- Cast Steel Locomotive Ash Pan Company. (See Westlake, Charles T., assignor.)
- Castberg, Thomas. (See Blankenhorn, G. W., and Castberg.)
- Casterline, Edwin D., and J. A. Brien, San Francisco; said Casterline assignor of his right to Laura F. Casterline, Oakland, Calif. Roll-paper holder. No. 1,408,499; Mar. 7.
- Casterline, Laura F. (See Casterline, E. D., and Brien, assignors.)
- Castle, John E., assignor of one-half to J. C. Jones, Ridge Farm, Ill. Collapsible rim. No. 1,439,943; Dec. 26.
- Castle, Samuel N., New Rochelle, N. Y. Electric furnace. No. 1,420,687; June 27.
- Castleman, Frank M., Rotherham, England, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa. Power-operated ram. No. 1,407,253; Feb. 21.
- Castles, Richard C., Chicago, Ill. Holder for playing cards. No. 1,416,447; May 16.
- Castricum, Martin, Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Continuous fabric feed. No. 1,415,312; May 9.
- Caswell, Carl F., Coon Rapids, Iowa. Glass tongs. No. 1,428,679; Sept. 12.
- Caswell, Herbert M., Oatman, Ariz. Wheelbarrow handle. No. 1,427,720; Aug. 29.
- Catalano, Peter P., North Collins, N. Y. Automatic safety gas cut-off. No. 1,416,169; May 16.
- Cataldi, Beniamino, Turin, Italy, assignor to A. Pomilio, New York, N. Y. Extraction of the cellulose from vegetable fibers. No. 1,424,620; Aug. 1.
- Catalpo, Limited. (See Schidrowitz, Philip, assignor.)
- Catching, Roy W., Roseburg, Oreg. Vacuum brake. No. 1,403,290; Jan. 10.
- Cate, Charles D., assignor of one-half to J. D. Fisk, Syracuse, N. Y. Reel. No. 1,425,076; Aug. 8.
- Catella, Robert, Woodlawn, N. Y. Bottle stopper. No. 1,429,929; Sept. 26.
- Cater, William H., Chicago, Ill. Well screen. No. 1,431,872; Oct. 10.
- Caterini, Rocco, Archbald, Pa. Arch support. No. 1,408,267; Feb. 28.
- Cathcart, Oswald J., Newburgh, N. Y. Vanity case. No. 1,423,079; July 18.
- Cathcart, William A. P., assignor of one-half to K. C. Hoon, Honolulu, Hawaii. Hairpin. No. 1,419,017; June 6.
- Cathrill, Jack, Los Angeles, Calif. Lamp. No. 1,403,147; Jan. 10.
- Cathrill, Jack, Los Angeles, Calif. Valve lock. No. 1,422,336; July 11.
- Catini, Federico, Pomeroy, Ohio. Attachment for soda-fountain faucets. No. 1,432,592; Oct. 17.
- Catlett, Charles, Staunton, Va. Oxysalt composition. No. 1,422,337; July 11.
- Catlin, Hoyt, assignor to The Bryant Electric Company, Bridgeport, Conn. Electric appliance. No. 1,403,268; Feb. 28.
- Catlin, Hoyt, assignor to The Bryant Electric Company, Bridgeport, Conn. Electric fitting. No. 1,411,161; Mar. 28.
- Catlin, Hoyt, assignor to The Bryant Electric Company, Bridgeport, Conn. Attachment plug. No. 1,417,452; May 23.
- Catlin, Hoyt, assignor to The Bryant Electric Company, Bridgeport, Conn. Electric switch. No. 1,423,306; July 18.
- Catlin, Mildred H., Minneapolis, Minn. Supplemental clothes hanger. No. 1,427,260; Aug. 29.
- Catlin, Thomas S., Waveland, Ind. Gun sight. No. 1,433,177; Oct. 24.
- Cato, Joseph L., Elmhurst, N. Y., assignor to L-W-F Engineering Company, Inc., College Point, Long Island, N. Y. Fuselage construction for aeroplanes. No. 1,428,143; Sept. 5.
- Cato, Joseph L., Elmhurst, assignor to L-W-F Engineering Company Inc., College Point, Long Island, N. Y. Armed aeroplane. No. 1,434,367; Nov. 7.
- Catron, John J., assignor to Catron Manufacturing Company, Bonham, Tex. Auxiliary air valve for motors. No. 1,436,943; Nov. 28.
- Catron Manufacturing Company. (See Catron, John J., assignor.)
- Cattaneo, Giustino, Milan, Italy. Cooling arrangement for exhaust valves of internal-combustion engines. No. 1,415,793; May 9.
- Cattaneo, Giustino, Milan, Italy. Cylinder of internal-combustion engines. No. 1,416,170; May 16.
- Catterall, Albert B., Ottumwa, Iowa. Dust cap. No. 1,423,515; July 25.
- Catterlin, F. J., et al. (See Plath, Theodore C., assignor.)
- Cattin, Walter J., Omaha, Nebr. Valve tool. No. 1,430,940; Oct. 3.
- Cattoi, Louis C., Hurley, Wis. Gearless transmission mechanism. No. 1,421,908; July 4.
- Cattoor, Joe M., Eaton, Colo. Rope machine. No. 1,430,519; Sept. 26.
- Catts, Erwin C. (See Hughes, B. I., jr., Dickey, and Catts.)
- Caudle, Theron L., Wadesboro, N. C. Garment supporter. No. 1,411,160; Mar. 28.
- Caughy, Robert C., Dixon, Ill., assignor, by mesne assignments, to J. I. Case Threshing Machine Company, Racine, Wis. Plow. No. 1,427,357; Aug. 29.
- Cauhn, Charles R. (See Stuart, Edwin T., assignor.)
- Caulk, L. D., Company. (See Zurbrigg, Daniel A., assignor.)
- Caulkins, Theodore P., assignor to E. T. Wray, Chicago, Ill. Drilling machine. No. 1,422,031; July 4.
- Causebrook, Henry F., Greenfield, Mass. Electrical condenser. No. 1,415,220; May 9.
- Causon, William B., Oakland, Calif. Rear-light signal for autos. No. 1,402,479; Jan. 3.
- Cauthorn, Courtney M. (See Cauthorn, Richard C., assignor.)
- Cauthorn, Richard C., Nowata, Okla., assignor of one-half to C. M. Cauthorn, Denver, Colo. Attachment for check pads. No. 1,402,398; Jan. 3.
- Cavanagh, James, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-protecting device. No. 1,433,979; Dec. 19.
- Cavanaugh, William M., New York, N. Y. Making leather yarn and article. No. 1,415,313; May 9.
- Cave, Herbert E., Indianapolis, Ind. Holder for light-diffusing bowls. No. 1,430,941; Oct. 3.
- Caveney, George, Oakland, Calif. Adjustable well-drilling bit. No. 1,407,927; Feb. 28.
- Caverly, Ralph, Chicago, Ill. Drill bit. No. 1,427,064; Aug. 22.
- Cavigelli, Emanuel, Ste. Margarethen, near Munchwilen, Switzerland, assignor to the Firm Schweiz. Gesellschaft für Tüllindustrie A.-G., Munchwilen, Switzerland. Machine for making tulle. No. 1,404,373; Jan. 24.
- Cavigelli, Emanuel, Ste. Margarethen, near Munchwilen, assignor to Firm of Schweiz Gesellschaft für Tüllindustrie A.-G., Munchwilen, Switzerland. Plain-net loom. No. 1,428,756; Sept. 12.
- Caviness, Edwin A., Battle Creek, Mich. Horn or amplifier for phonographs. No. 1,412,772; Apr. 11.

Alphabetical list of patentees—Continued.

- Cavitt, John C., Weirton, W. Va. Electric heating apparatus. No. 1,424,340; Aug. 1.
- Cawley, Aloysius J., Pittston, Pa. Sound-recording process. No. 1,420,304; June 20.
- Cawley, Frank P., Pittsburgh, Pa. Game apparatus. No. 1,405,967; Feb. 7.
- Cawley, Michael J., New York, N. Y. Burglar alarm. No. 1,439,795; Dec. 26.
- Cawood, Richard L., East Liverpool, Ohio. Plastic material and producing the same. No. 1,414,254; Apr. 25.
- Cawse, Alfred J., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Flexible shaft. No. 1,437,493; Dec. 5.
- Cayce, Robert D., Nashville, Tenn. Moistening device. No. 1,430,492; Sept. 26.
- Caye, Fred L., Detroit, Minn. Loading apparatus. No. 1,428,472; Sept. 5.
- Cayer, Joseph L., and F. Gersdorff, Chicago, Ill., assignor to Interior Window Display Co. Lambrequin. No. 1,405,280; Jan. 31.
- Caylor, George E., Delaware, Ohio. Pneumatic tire. No. 1,404,685; Jan. 24.
- Caywood, Albert D., Oak Park, Ill. Print-trimming machine. No. 1,433,799; Oct. 31.
- Cazier, Murray H., and E. P. Youkey, Chicago, Ill., assignors, by mesne assignments, to A. Aderer, New York, N. Y. Clothes-hanger rack. No. 1,439,145; Dec. 19.
- Cazier, Perry H., and W. H. Hecker, Nashville, Mich. Compressed-air filtering apparatus. No. 1,429,713; Sept. 19.
- Cecarini, Olindo O., et al. (See Monbaruzzo, Luigi, assignor.)
- Celane, Jacob L., and D. Steinberg, New York, N. Y. Advertising device. No. 1,434,873; Nov. 7.
- Cellino, Attilio, Buenos Aires, Argentina, assignor to Central Battery Corporation. Battery element and forming the same. No. 1,433,602; Oct. 31.
- Celluloid Company, The. (See Lindsay, William G., assignor.)
- Center-Fed Spring Insert Co. (See Dale, Sylvester F., assignor.)
- Central Automatic Sprinkler Company. (See Lewis, Leroy M., assignor.)
- Central Battery Corporation. (See Cellino, Attilio, assignor.)
- Central Manufacturing Company. (See Schuette, August E., assignor.)
- Central Metal Products Company, The. (See Nyman, John O., assignor.)
- Central Oil & Gas Stove Co. (See White, Fred E., assignor.)
- Central Railway Signal Company. (See Dutcher, Frank, assignor.)
- Central Railway Signal Company. (See Ross, Louis S., assignor.)
- Central States Bridge Company. (See Riley, Austin A., assignor.)
- Central Talking Machine Shop, Inc. (See Hadley, Walter C., assignor.)
- Central Union Trust Company of New York. (See Radford, George S., assignor.)
- Central Wheel Company. (See Rupe, Judson R., assignor.)
- Centrifugal Concrete Blocks and Poles Limited. (See Cannon, Percival C., assignor.)
- Centrifugal Gun Corporation. (See Lombard, Levi W., assignor.)
- Cerf, Lester, Brooklyn, N. Y. Heel fastener. No. 1,423,787; July 25.
- Ceriat, Eugene, Los Angeles, Calif. Tile construction. No. 1,420,020; June 20.
- Certain-Teed Products Corporation. (See Outman, Orr K., assignor.)
- Cervenka, William F., Traverse City, Mich. Bank-protection system. No. 1,420,520; June 20.
- Cervenka, William F., Traverse City, Mich. Bank protective apparatus. No. 1,427,065; Aug. 22.
- Cerveney, Emil F., assignor of one-half to S. Yavitz, Chicago, Ill. Angle-indicating level and plumb. No. 1,440,275; Dec. 26.
- Cerveney, Emil F., assignor of one-half to S. Yavitz, Chicago, Ill. Record-lifting device for sound-reproducing machines. No. 1,440,276; Dec. 26.
- Cesak, Martin, Berwyn, Ill. Oiling system for vehicle springs. No. 1,436,012; Nov. 21.
- Cesar, Vital, Brussels, Belgium. Controlling device for signals having several positions. No. 1,418,127; May 30.
- Ceserani, John, assignor of one-third to G. Wrightson and one-third to F. W. Carpino, Butte, Mont. Surveyor's instrument and range finder. No. 1,406,150; Feb. 7.
- Cessna, Ira B., Hoisington, Kans. Trailer hitch for automobiles. No. 1,427,579; Aug. 29.
- Chabot, Joseph O., assignor to George L. Paine Co., North Attleboro, Mass. Belt buckle. No. 1,440,339; Dec. 26.
- Chabot, Josephat. (See Gauthier, E., and Chabot.)
- Chace, Warren O., Everett, Mass. Stirrer. No. 1,416,332; May 16.
- Chadd, Frank E. (See Redifer, R., and Chadd.)
- Chadderton, Irvine, Ashton-under-Lyne, and R. C. Booth, Failssworth, England. Box spanner and the like. No. 1,419,222; June 13.
- Chadeloid Chemical Company. (See Ellis, Carleton, assignor.)
- Chadwick, Cecil C., Newton, Mass. Bubbler fountain. No. 1,435,515; Nov. 14.
- Chadwick, George C., Melbourne, Victoria, Australia. Unloading apparatus. No. 1,422,926; July 18.
- Chadwick, Herbert D. (See Frost, John A., assignor.)
- Chadwick, Lee S., Cleveland, Ohio. Apparatus for vaporizing liquid fuel. No. 1,439,146; Dec. 19.
- Chadwick, Lee S., East Cleveland, assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Wick. No. 1,403,010; Jan. 10.
- Chadwick, Lee S., assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Oil burner. No. 1,405,488; Feb. 7.
- Chadwick, William A., Toronto, Ontario, Canada. Ice-cream-cone protector. No. 1,436,754; Nov. 28.
- Chafetz, Benjamin, New York, N. Y. Finger ring and cigarette holder. No. 1,434,590; Nov. 7.
- Chaffee, Harold D., South Manchester, Conn. Shoe-lace tip. No. 1,402,341; Jan. 3.
- Chaffee, Milo O., Sanford, Kans. Tractor hitch. No. 1,427,066; Aug. 22.
- Chaffin, Clarence M., Springfield, Mo. Lawn cleaner. No. 1,417,032; May 23.
- Chagnon, Moise C., Derby, Conn. Dustpan. No. 1,410,369; Mar. 21.
- Chaillaux, Paul, Paris, France. Manufacture of gold-colored sulphurs and vermilions of antimony. No. 1,417,033; May 23.
- Chain Belt Company. (See Bethke, Leo, assignor.)
- Chain Belt Company. (See Brown, James W., assignor.)
- Chain Belt Company. (See Fraser, D., Shafer, and Levalley, assignors.)
- Chain Belt Company. (See Roddy, Gustav R., assignor.)
- Chain Belt Company. (See Shafer, Samuel, Jr., assignor.)
- Chain Belt Company. (See Welsler, George B., Jr., assignor.)
- Chakiris, George. (See Yeaux, A., and Chakiris.)
- Chalas, Adolphe, Paris, France. Preparing meat extract in a dry state. No. 1,414,177; Apr. 25.
- Chalfant, Coter S., Chicago, Ill. Spark arrester for locomotives. No. 1,408,075; Feb. 28.
- Challoner Company. (See Ackerberg, Carl, assignor.)
- Chalman, John E., assignor to Union Special Machine Company, Chicago, Ill. Folder for sewing machines. No. 1,422,176; July 11.
- Chalman, John E., assignor to Union Special Machine Company, Chicago, Ill. Folder for sewing machines. No. 1,433,447; Oct. 24.
- Chalman, John E., assignor to Union Special Machine Company, Chicago, Ill. Needle guard. No. 1,433,872; Oct. 31.
- Chalman, John E., assignor to Union Special Machine Company, Chicago, Ill. Stitching mechanism for sewing machines. No. 1,436,944; Nov. 28.
- Chalman, John E., assignor to Union Special Machine Company, Chicago, Ill. Guide for sewing machines. No. 1,439,944; Dec. 26.
- Chaloupka, Joseph, Omaha, Nebr. Hose clamp. No. 1,413,003; Apr. 18.
- Chamales-Lehmann Company. (See Lehmann, Karl L., assignor.)
- Chamberlain, Arthur R., et al. (See Charlton, Robert W., assignor.)
- Chamberlain, Kit C., Houston, Tex. Staple-setting device. No. 1,406,974; Feb. 21.
- Chamberlain, Minor E., St. Louis, Mo. Rail tie. No. 1,431,631; Oct. 10.
- Chamberlain, Richard H., et al. (See Hull, Chester A., assignor.)
- Chamberlain, Rufus N., assignor of one-half to G. R. Berger, Chicago, Ill. Locomotive. No. 1,417,498; May 30.
- Chamberlain, Wilbur L., Meriden, Conn. Sound-reproducing device. No. 1,407,928; Feb. 28.
- Chamberlin, Clarence P., assignor to Joseph N. Smith & Company, Detroit, Mich. Sash-operating mechanism. No. 1,434,874; Nov. 7.
- Chamberlin, Walter L., Laurel, Mont. Measuring instrument. No. 1,436,648; Nov. 28.
- Chambers Brothers Company. (See King, Howard K., assignor.)
- Chambers, Charles E., El Dorado, Kans. Skimmer. No. 1,405,668; Feb. 7.
- Chambers, Charles E., Wichita, Kans. Milk skimmer. No. 1,421,909; July 4.
- Chambers, George C. (See Clark, Edward B., assignor.)
- Chambers, Howard E., and J. L. Downing, Seattle, Wash. Camp stove. No. 1,403,842; Jan. 17.
- Chambers, John A., Newburg, Mo. Mail-delivery apparatus. No. 1,405,097; Jan. 31.
- Chambers, John M., Baltimore, assignor to O. P. Le Compte, Towson, Md. Grip handle. No. 1,426,357; Aug. 22.
- Chambers, Jordan W. (See Carroll, Andrew L., assignor.)
- Chambers, Lee, Bastrop, Tex. Shoe-shining machine. No. 1,419,018; June 6.
- Chambers, Mack and Y. W., East St. Louis, Ill. Bandit trap. No. 1,428,903; Sept. 5.
- Chambers, Peter. (See Fisher, W. H., and Chambers.)
- Chambers, William C., Cicero, Ill. Valve-operating mechanism. No. 1,413,097; Apr. 18.
- Chambers, Yancy W. (See Chambers, Mack and Y. W.)
- Chambless, James, assignor of one-half to H. W. Cranford, Jasper, Ala. Motion-picture apparatus. No. 1,428,531; Sept. 12.

Alphabetical list of patentees—Continued.

- Chambon, Henri, Paris, France. Combined letter and cover and the like. No. 1,409,828; Mar. 14.
- Chambon, Henri, Paris, France. Envelope for sending post cards and the like. No. 1,409,829; Mar. 14.
- Chamney, Ronald M. (See Robinson, C. R., and Chamney.)
- Champagne, Henry J., Pittsfield, Mass. Removable heel. No. 1,427,261; Aug. 29.
- Champeau, Lawrence X., Jersey City, N. J. Adjustable illumination device for skylights. No. 1,419,918; June 20.
- Champion Ice Machine Company, The. (See Gase, George A., assignor.)
- Champion Ignition Company. (See McDougal, T. G., and McDowell, assignors.)
- Champion Ignition Company. (See McDougal, Taine G., assignor.)
- Champion Register Company, The. (See Moss, Victor G., assignor.)
- Champion Shoe Machinery Company. (See Dobyne, Stephen A., assignor.)
- Champlin, Charles W., assignor of one-half to S. Higby, Cedar Falls, Iowa. Car seal. No. 1,420,968; June 27.
- Champlin, Herbert H. (See Davis, M. L., and Cook, assignors.)
- Chance, George W., Swarthmore, Pa. Harbor-improvement apparatus. No. 1,432,530; Oct. 17.
- Chancellor, Chester A., L. G. McMannama, and C. E. Houghton, Mindemines, Mo. Engine trip for steam shovels. No. 1,430,942; Oct. 3.
- Chandeson, Alfred H., deceased, Jette St. Pierre, sole heirs of said Alfred H. Chandeson assignors to Compagnie Internationale de Freinage (Système Luyers) Societe Anonyme, Brussels, Belgium. Braking mechanism. No. 1,434,678; Nov. 7.
- Chandler, Albert L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tube-wrapping lathe. No. 1,432,531; Oct. 17.
- Chandler, Charles D., and F. B. Roland, Portland, Oreg. Headlight. No. 1,403,291; Jan. 10.
- Chandler, Elmo M., Toronto, Ontario, Canada. Strut for automatic sprinklers. No. 1,434,679; Nov. 7.
- Chandler, Franklin F., and H. G. Myers, assignors to Adaptable Tractor Co., Indianapolis, Ind. Tractor. No. 1,439,066; Dec. 19.
- Chandler, James Henry, London, England. Spring suspension for vehicles. No. 1,431,632; Oct. 10.
- Chandler, Jermain, Toledo, Ohio. Dispensing apparatus. No. 1,420,080; June 20.
- Chandler, Logan B., San Francisco, Calif. Boot and valve. No. 1,437,130; Nov. 28.
- Chandler & Price Company, The. (See Sixt, Frederick C., assignor.)
- Chandler and Price Company, The. (See Tyler, Ralph S., assignor.)
- Chandler, Robert W., Stamford, Conn. Distant control for industrial cranes. No. 1,439,945; Dec. 26.
- Chanier, Gaston L., Jersey City, N. J., assignor to Pathe Exchange Inc., New York, N. Y. Film-testing machine. No. 1,422,665; July 11.
- Chanier, Gaston L., Jersey City, N. J., assignor to Pathe Exchange, Inc., New York, N. Y. Film-printing machine. No. 1,425,450; Aug. 8.
- Channell, Charles A., Chicago, Ill., assignor to Channell Chemical Company, Floor mop. No. 1,406,610; Feb. 14.
- Channell Chemical Company. (See Channell, Charles A., assignor.)
- Channon, Thomas H., Fitzroy, Melbourne, Victoria, Australia. Manufacture of resilient tires and apparatus therefor. No. 1,424,802; Aug. 8.
- Chanowsky, Adolph. (See Kerr, Michael A., assignor.)
- Chantemerle, Joseph L. (See Garcelon, G. H., and Chantemerle.)
- Chantemerle, Joseph L., Turtle Creek, Pa., assignor to Westinghouse Electric and Manufacturing Company. Brush holder. No. 1,435,209; Nov. 14.
- Chantiers et Ateliers Augustin-Normand. (See Augustin-Normand, Augustin, assignor.)
- Chantiers & Ateliers Augustin Normand. (See Lecoq, Henri, assignor.)
- Chantler, Henry C. (See Hedrick, H. L., and Chantler.)
- Chantraine, Alphonse B., Marcinelle, Belgium. Heating apparatus. No. 1,402,568; Jan. 3.
- Chapdelaine, Norbert, assignor to Allan A. Magee, Montreal, Quebec, Canada. Rocking carriage. No. 1,404,834; Jan. 31.
- Chapdelaine, Norbert, assignor, by mesne assignments, to International Toy Company, Limited, Montreal, Quebec, Canada. Child's vehicle. (Reissue.) No. 15,404; July 11.
- Chapin, Marvin E., assignor to Chicago Carton Company, Chicago, Ill. Shipping and dispensing box. No. 1,416,448; May 16.
- Chapin & Hollister Co. (See Lewis, Frederick W., assignor.)
- Chapman, Charles E., Chicago, Ill. Jewelry tray. No. 1,425,317; Aug. 8.
- Chapman, Charles E., Chicago, Ill. Moving display apparatus for jewelry. No. 1,425,508; Aug. 15.
- Chapman, Charles E., assignor of one-half to J. Goodfellow, Fort Edward, N. Y. Apparatus for burning hydrocarbon oils. No. 1,419,223; June 13.
- Chapman, Charles E., assignor of one-half to J. Goodfellow, Fort Edward, N. Y. Superheater. No. 1,436,379; Nov. 21.
- Chapman, Earle E., Los Angeles, Calif., assignor to Miller-Chapman Company. Side chain shackle for automobile wheels. No. 1,418,534; June 6.
- Chapman, Edward B., Whitley Bay, England. Magnetic strainer apparatus for separating solids from liquids. No. 1,425,366; Aug. 8.
- Chapman, Edward H., assignor to Bethlehem Shipbuilding Corporation, Ltd., South Bethlehem, Pa. Radial riveting hammer. No. 1,404,512; Jan. 24.
- Chapman Engineering Company. (See Chapman, William B., assignor.)
- Chapman, Ernest L., Hyde Park, assignor to W. Fillmore Company, Cambridge, Mass. Show case. No. 1,431,371; Oct. 10.
- Chapman, Frank, Brooklyn, N. Y. Amusement device. No. 1,422,032; July 4.
- Chapman, Frank C., Modesto, Calif. Dehydrator. No. 1,404,369; Jan. 24.
- Chapman, Frank C., Modesto, Calif. Combustion and mixing chamber for dehydrators. No. 1,422,416; July 11.
- Chapman, Frank M., assignor to E. W. Labombarde, Nashua, N. H. Machine for screening paper. No. 1,437,720; Dec. 5.
- Chapman, Fred H., Pepperell, Mass. Spindle. No. 1,406,975; Feb. 21.
- Chapman, Harry, Sheffield, England. Means for observing combustion in internal-combustion engines. No. 1,433,530; Oct. 31.
- Chapman, James, and W. F. R. Reynolds, Johannesburg, Transvaal Province, South Africa. Sluice for dams. No. 1,404,092; Jan. 17.
- Chapman, John A., et al., trustees. (See Kellogg, Chester A., assignor.)
- Chapman, John A., et al., trustees. (See Sommer, John, assignor.)
- Chapman, John A., et al., trustees. (See Sommer, William H., assignor.)
- Chapman, Leroy B. (See Crites, Virgil C., assignor.)
- Chapman, Matthew T., assignor to The American Well Works, Aurora, Ill. Means for boring wells. No. 1,420,365; June 20.
- Chapman, Solomon D., Canton, Ohio. Heating apparatus. No. 1,405,281; Jan. 31.
- Chapman, William B., assignor to Chapman Engineering Company, Mount Vernon, Ohio. Gas producer. No. 1,412,921; Apr. 18.
- Chapman, William H., Portland, Me. Magneto generator. No. 1,416,789; May 23.
- Chapman, William H., assignor to Norton Company, Worcester, Mass. Terrazzo safety tread. No. 1,419,019; June 6.
- Chapman, William M., Hartford City, Ind. Mail box. No. 1,438,518; Dec. 12.
- Chapman, Winthrop M., Needham, Mass. Signal-controlling apparatus. No. 1,428,532; Sept. 12.
- Chapp, Frank. (See Zoldowski, John H., assignor.)
- Chappell, David J., Llanelly, Wales. Air tube for pneumatic tires. No. 1,430,795; Oct. 3.
- Chappell, Marvin L., and M. M. Moore, El Segundo, assignors to Standard Oil Company of California, San Francisco, Calif. Clarifying and improving the color of petroleum oils. No. 1,404,374; Jan. 24.
- Chappell, Marvin L., and M. M. Moore, El Segundo, assignors to Standard Oil Company of California, San Francisco, Calif. Clarifying and improving the color of petroleum oils. No. 1,404,375; Jan. 24.
- Chapuy, Antoine, and L. F. Meunier, St. Etienne, France. Variable-speed-transmission device. No. 1,426,358; Aug. 22.
- Charbonneau, Edward A., San Francisco, Calif. Gaseous fuel. No. 1,420,622; June 27.
- Charbonneau, Leonard, Ogdensburg, N. Y. Drainage system for vehicles. No. 1,415,794; May 9.
- Chardard, Jean B. D. L., Paris, France. Radiator construction. No. 1,416,944; May 23.
- Chardard, Jean B. D. L., Paris, France. Motor vehicle radiator. No. 1,416,945; May 23.
- Charles, B. R. (See Charles, Phyllis E., assignor.)
- Charles, George M., Washington, D. C. Fountain comb. No. 1,413,320; Apr. 18.
- Charles, John D. and J. P., Park Rapids, Minn. Wheel with demountable-rim fastener. No. 1,412,337; Apr. 11.
- Charles, John P. (See Charles, John D. and J. P.)
- Charles, Louis A., Paris, France. Process and apparatus for fuel injection in internal-combustion engines. No. 1,418,232; May 30.
- Charles, Manuel, Mexico, Mexico. Tire. No. 1,406,151; Feb. 7.
- Charles, Merlin Y., Wichita, Kans. Reinforced hollow concrete wall. No. 1,420,521; June 20.
- Charles, Phyllis E., Victoryville, assignor to B. R. Charles, Los Angeles, Calif. Electric heating fabric. No. 1,419,613; June 13.
- Charles Skidd Manufacturing Company. (See Hippenmeyer, I. R., and Skidd, assignors.)
- Charleston Electrical Supply Company. (See Lewis, Henry C., assignor.)
- Charlet, Barney. (See Degon, Charles F., assignor.)

Alphabetical list of patentees—Continued.

- Charlet, Hans, Krefeld, Germany. Inherently-regulated direct-current dynamo. No. 1,416,265; May 16.
- Charley, John J., Murrumbena, Victoria, Australia. Resilient vehicle wheel and tire. No. 1,402,717; Jan. 3.
- Charlton, Harry W. (See Meadows, T. C., Hauber, and Charlton.)
- Charlton, Robert W., assignor of one-third to A. F. Klump and one-third to A. R. Chamberlain, Pineville, La. Kitchen utensil. No. 1,417,453; May 23.
- Charlton, Thomas, Chicago, Ill. Apparatus for making food products. No. 1,406,170; Feb. 14.
- Charm, Hyman, Dorchester, Mass. Container for electric wires. No. 1,421,168; June 27.
- Charon, Thomas J., Park River, N. Dak. Power attachment for automobiles. No. 1,424,281; Aug. 1.
- Charriot, Joseph, Paris, France. Wheelbarrow. No. 1,427,262; Aug. 29.
- Charsky, Benjamin, New York, assignor to Mochar-Leather Goods Corporation, Brooklyn, N. Y. Brief case. No. 1,424,152; Aug. 1.
- Charter, James A., Chicago, Ill. Metal disk wheel. No. 1,423,598; July 25.
- Chase, Albert W., Catskill, N. Y. Internal-combustion engine. No. 1,411,710; Apr. 4.
- Chase, Albert W., and W. B. Van Arsdell, assignors to Brown Company, Berlin, N. H. Preparing catalytic material. No. 1,432,668; Oct. 17.
- Chase, Benjamin F. (See Chase, William M., assignor.)
- Chase, Carl C., assignor to Motor Recording Corporation, New York, N. Y. Abstract of title for motor vehicles. No. 1,419,020; June 6.
- Chase, Clarence E., Harlan, Ky. Arch supporter. No. 1,406,957; Feb. 14.
- Chase Companies, The. (See Crane, Arthur T., assignor.)
- Chase Companies, The. (See Recker, Adolph C., assignor.)
- Chase Companies, The. (See Wellington, Arthur W., assignor.)
- Chase, Earl G., Smethport, Pa. Glass-handling apparatus. No. 1,414,547; May 2.
- Chase, Ernest N., Auburn, Me. Clamping device for attaching heels to shoes. No. 1,405,098; Jan. 31.
- Chase, George Q., San Francisco, Calif. Mechanical musical instrument. No. 1,412,386; Apr. 11.
- Chase, George T., Utica, N. Y. Hairpin. No. 1,425,367; Aug. 8.
- Chase, Henry E. (See McKenna, J., and Chase.)
- Chase, Henry H., Jamestown, N. Y. Socket-wrench container. No. 1,438,900; Dec. 12.
- Chase, March F., Ardley-on-Hudson, and F. E. Pierce, assignors to The Cos Process Company, Inc., New York, N. Y. Manufacture of sulphuric anhydride and sulphuric acid. No. 1,405,669; Feb. 7.
- Chase, Maurice E., Cambridge, Mass. Concrete insert. No. 1,409,524; Mar. 14.
- Chase, Philip H., Cynwyd, Pa., assignor to S. B. Condit, Brookline, Mass. Electric switch. No. 1,408,690; Mar. 7.
- Chase, Samuel H., Madison, Wis. Scarecrow. No. 1,428,216; Sept. 5.
- Chase-Shawmut Company, The. (See Conant, Franklin N., assignor.)
- Chase, Sidney M., Minneapolis, Minn. Device for hanging pictures. No. 1,433,178; Oct. 24.
- Chase, Wilfred O., Redford, Mich., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vacuum fuel-feeding system. No. 1,439,691; Dec. 26.
- Chase, William M., Atlantic City, N. J., assignor to R. F. Chase, Roanoke, Va. Roofing fabric. No. 1,434,200; Oct. 31.
- Chase, Willis A., North Concord, Vt. Oil can. No. 1,430,943; Oct. 3.
- Chasse, Raphael, deceased, Middletown, N. Y.; R. J. Chasse, administrator. Rat trap. No. 1,429,189; Sept. 12.
- Chasse, Russell J., administrator. (See Chasse, Raphael.)
- Chaszar, Emery J., Detroit, Mich. Furnace. No. 1,435,955; Nov. 21.
- Chateaufort, Frank, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stitch-removing machine. No. 1,412,041; Apr. 11.
- Chatfield, Augustus S., New York, N. Y. Golf ball. No. 1,426,712; Aug. 22.
- Chatfield, Charles B., Orange, N. J. Making substituted amines. No. 1,429,714; Sept. 19.
- Chattin, Robert C., Mountain Home, Idaho. Power-driven mowing machine. No. 1,439,727; Dec. 26.
- Chaudet, Felix R., St. Louis, Mo. Attachment for shoe heels. No. 1,431,933; Oct. 17.
- Chaufouraux, Armand H., St. Louis, Mo. Air-cooling apparatus. No. 1,434,368; Nov. 7.
- Chausse, Wilfrid G., Detroit, Mich. Safety device for gas generating and heating apparatus. No. 1,423,080; July 18.
- Cheatham Electric Switching Device Co. (See Robinson, Robert M., assignor.)
- Cheesman, Frederic E., Brooklyn, N. Y. Air-check device. No. 1,428,145; Sept. 5.
- Chelena, Vincent, Atlanta, Ga. Check guard. No. 1,406,611; Feb. 14.
- Chelsea Radio Co. (See Goodwin, Aubrey R., assignor.)
- Chelsea Ship Repair Co. (See Fackert, Harry M., assignor.)
- Chemical Construction Company. (See Hechenbleikner, I., and Oliver, assignors.)
- Chemical Engineering and Wilton's Patent Furnace Company, Limited, The. (See Mann, Harold C., assignor.)
- Chemical Equipment Company. (See La Bour, Harry E., assignor.)
- Chemical Foundation, Inc., The. (See Blass, Ferdinand M. E., assignor.)
- Chemical Foundation, Inc., The. (See Bronnert, Emile, assignor.)
- Chemical Foundation, Inc., The. (See Classen, Alexander, assignor.)
- Chemical Foundation, Inc., The. (See Elsaesser, Emil, assignor.)
- Chemical Foundation, Inc., The. (See Glässer, Otto, assignor.)
- Chemical Foundation, Inc., The. (See Goldschmidt, H., and Müller, assignors.)
- Chemical Foundation, Inc., The. (See Ising, G., and Borofski, assignors.)
- Chemical Foundation, Inc., The. (See Korselt, Johannes, assignor.)
- Chemical Foundation, Inc., The. (See Kunert, F., and Acker, assignors.)
- Chemical Foundation, Inc., The. (See Küttner, Ernst W., assignor.)
- Chemical Foundation, Incorporated, The. (See Linz, Arthur, assignor.)
- Chemical Foundation, Inc., The. (See Lobeck, Oskar, assignor.)
- Chemical Foundation, Inc., The. (See Löw-Beer, Oscar, assignor.)
- Chemical Foundation, Inc., The. (See Martens, Friedrich, assignor.)
- Chemical Foundation, Inc., The. (See Minck, Paul H., assignor.)
- Chemical Foundation, Inc., The. (See Müller, Philipp, assignor.)
- Chemical Foundation, Inc., The. (See Münster, Wilhelm, assignor.)
- Chemical Foundation, Inc., The. (See Oehme, Hermann, assignor.)
- Chemical Foundation, Inc. (See Riedel, Friedrich, assignor.)
- Chemical Foundation, Inc., The. (See Röhm, Otto, assignor.)
- Chemical Foundation, Inc., The. (See Römer, A., and Blangey, assignors.)
- Chemical Foundation, Inc., The. (See Schröder, Edmund, assignor.)
- Chemical Foundation, Inc., The. (See Stuer, B. C., and Grob, assignors.)
- Chemical Foundation, Inc., The. (See Türk, Gustav, assignor.)
- Chemical Foundation Inc., The. (See Ullrich, Georg, assignor.)
- Chemical Foundation, Inc. (See Wolff, Albert, assignor.)
- Chemical Fuel Company of America, Inc. (See Stevens, Eldridge W., assignor.)
- Chemical Machinery Corporation. (See Field, Crosby, assignor.)
- Chemical Research Syndicate Ltd., trustees. (See Ramage, Alexander S., assignor.)
- Chemical Works, formerly Sandoz. (See Stoll, Arthur, assignor.)
- Chemidlin, John B., Plainfield, N. J. Electric contact. No. 1,415,795; May 9.
- Chemische Fabrik auf Aktien (vormals E. Schering). (See Weidel, Arno, assignor.)
- Chemische, Fabrik Griesheim-Elektron. (See Cramer, Carl, assignor.)
- Chemische Fabrik Griesheim-Elektron. (See Laska, A. L., and Prillwitz, assignors.)
- Chemische Fabrik Griesheim-Elektron. (See Specketer, Heinrich, assignor.)
- Chemische Fabrik Weissenstein Gesellschaft m. b. H. (See Baum, Gustav, assignor.)
- Chenard, Bert E., et al. (See Marion, Frank, assignor.)
- Chenard, Emile A. R., deceased, Cognac, Charente, France; J. Chenard, nicknamed Armand, executor. Fractional-distilling apparatus. No. 1,407,380; Feb. 21.
- Chenard, Jean, nicknamed Armand, executor. (See Chenard, Emile A. R.)
- Chenel, Albert, New Bedford, Mass. Window-rod fastener. No. 1,410,459; Mar. 21.
- Cheney, Anson W., Seattle, Wash. Safety cabinet for gas plates and ranges. No. 1,405,489; Feb. 7.
- Cheney Brothers. (See Ruddell, Richard, assignor.)
- Cheney, Charles C., Charlestown, Mass. Automatic control for compressed-air-actuated machines. No. 1,429,325; Sept. 19.
- Cheney, Forest, assignor to Cheney Talking Machine Company, Chicago, Ill. Sound box. No. 1,402,052; Jan. 3.
- Cheney, Forest, assignor to Cheney Talking Machine Company, Chicago, Ill. Sound-reproducing machine. No. 1,407,781; Feb. 28.
- Cheney, Forest, assignor to Cheney Talking Machine Company, Chicago, Ill. Control means for sound-reproducing machines. No. 1,415,525; May 9.
- Cheney, Forest, assignor to Cheney Talking Machine Company, Chicago, Ill. Sound box. No. 1,417,499; May 30.

- Cheney, Forest, assignor to Cheney Talking Machine Company, Chicago, Ill. Motor for talking machines. No. 1,421,404; July 4.
- Cheney, Forest, assignor to Cheney Talking Machine Company, Chicago, Ill. Automatic stop for talking machines. No. 1,435,697; Nov. 14.
- Cheney, Harry F. (See Cheney, John W. and H. F.)
- Cheney, Herbert W., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Dashpot. No. 1,426,460; Aug. 22.
- Cheney, John W., Pasadena, and H. F. Cheney, Los Angeles, Calif. Gathering and preserving fruit juices. No. 1,403,072; Jan. 10.
- Cheney, Moses E. (See Blodgett, Hurley, and Cheney.) (Reissue.)
- Cheney Talking Machine Company. (See Cheney, Forest, assignor.)
- Cheney Talking Machine Company. (See Scottford, Louis K., assignor.)
- Cheney, William G., Marlboro, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Device for laying and indenting rubber foxing. No. 1,413,707; Apr. 25.
- Cheney, William G., Marlboro, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for working uppers over lasts. No. 1,432,532; Oct. 17.
- Cheney, William G., Marlboro, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,432,533; Oct. 17.
- Chennoweth, John S. (See Schultz, John M., assignor.)
- Chenoweth, William B., assignor to National Atmospheric Power & Light Company, a Trust Estate, Dallas, Tex. Wind motor. No. 1,408,988; Mar. 7.
- Chernikeeff, Basil, London, England. Ship's log. No. 1,421,405; July 4.
- Chernock, Isidore. (See Prebluda, Barney, assignor.)
- Chernock, Isidore, Boston, Mass. Display device. No. 1,434,479; Nov. 7.
- Chernovetz, Frank P., Bridgeport, Conn. Padlock. No. 1,411,682; Apr. 4.
- Cherry, Isaac W., Pensacola, Fla. Window screen. No. 1,422,539; July 11.
- Cherry, Lester A., Kenmore, N. Y. Regulator for vapor-heating systems. No. 1,423,492; July 18.
- Chertok, Joseph, New York, N. Y., assignor to Chertok Safety Appliance Company. Guard for sewing-machine needles. No. 1,419,718; June 13.
- Chertok Safety Appliance Company. (See Chertok, Joseph, assignor.)
- Cheshire Company. (See Cheshire, Milton F., assignor.)
- Cheshire, Milton F., Chicago, Ill., assignor to T. A. Cheshire, Des Moines, Iowa. Addressing machine. No. 1,420,814; June 27.
- Cheshire, Milton F., assignor to Cheshire Company, Incorporated, Chicago, Ill. Attachment for addressing machines. No. 1,436,013; Nov. 21.
- Cheshire, Thomas A. (See Cheshire, Milton F., assignor.)
- Chesnutt, John L., Long Beach, Calif. String-proof roller-bearing wheel. No. 1,432,966; Oct. 24.
- Chesnutt, Owen L., Atlanta, Ga. Adjustable headlight. No. 1,410,370; Mar. 21.
- Chesnutt, Owen L., Atlanta, Ga. Tape or web printing machine. No. 1,422,666; July 11.
- Chesnut, Victor K. (See Power, F. B., and Chesnut.)
- Chester, Ashmead B., Jacksonville, Ill. Drill. No. 1,433,498; Oct. 24.
- Chester, Frank R., Asbury Park, N. J. Amusement apparatus. No. 1,405,282; Jan. 31.
- Chester, Frank R., Asbury Park, N. J. Amusement apparatus. No. 1,410,371; Mar. 21.
- Chester Machine Co. (See Augustine, Addison E., assignor.)
- Chestnut, Donald L., Seattle, Wash. Device for restoring trolley wheels to trolley wires. No. 1,414,548; May 2.
- Cheston, Arthur S., Birmingham, England. Vehicle top. No. 1,414,178; Apr. 25.
- Chetham, Edward, London, England. Grease shield for hats and like headwear. No. 1,434,201; Oct. 31.
- Chevalier, John F. (See Griswold, Albert A., assignor.)
- Chevrier, Louis, Paris, France. Surgical footwear. No. 1,402,282; Jan. 3.
- Chew, Leung and W. F. Jennings, London, England. Compression pump. No. 1,428,473; Sept. 5.
- Chew, Manley, Midland, Ontario, Canada. Fiber board. No. 1,423,081; July 18.
- Clew, Manley, Midland, Ontario, Canada. Apparatus for producing fiber board. No. 1,423,082; July 18.
- Clew, Manley, Midland, Ontario, Canada. Producing fiber board. No. 1,423,083; July 18.
- Chiarelli, Frank, et al. (See Rhoades, Thomas, assignor.)
- Chicago Automatic Conveyor Co. (See Shaw, Arthur L., assignor.)
- Chicago Cabinet Lock Co. (See Mantanel, August, assignor.)
- Chicago Car Seal Company. (See Rogers, Harry R., assignor.)
- Chicago Carton Company. (See Chapin, Marvin E.)
- Chicago Carton Company. (See Walker, Paul, assignor.)
- Chicago Case Manufacturing Company. (See Thomas, Adelbert A., assignor.)
- Chicago-Cleveland Car Roofing Company. (See Bernbaum, John W., assignor.)
- Chicago-Cleveland Car Roofing Co. (See Hamilton, Karl M., assignor.)
- Chicago-Cleveland Car Roofing Company. (See McMullen, John, assignor.)
- Chicago-Cleveland Car Roofing Company. (See Russell, Thomas N., assignor.)
- Chicago-Cleveland Car Roofing Company. (See Tesseyman, J. E., and Russell, assignors.)
- Chicago Electric Sign Company. (See Knauber, Alexander M., assignor.)
- Chicago Flexible Shaft Company. (See Kocourek, Henry, assignor.)
- Chicago Hardware Foundry Company. (See Hathorne, Sherman A., assignor.)
- Chicago Malleable Castings Company. (See Osborn, Warren M., assignor.)
- Chicago Manufacturing & Distributing Company. (See McKee, Ralph J., assignor.)
- Chicago Novelty Mfg. Co. (See Carlson, John W., assignor.)
- Chicago Pneumatic Tool Co. (See Hoffman, Leon F., assignor.)
- Chicago Pneumatic Tool Company. (See Coates, Charles B., assignor.)
- Chicago Pneumatic Tool Company. (See Dockham, Clarence H., assignor.)
- Chicago Pneumatic Tool Company. (See Kimman, Henry G., assignor.)
- Chicago Pneumatic Tool Company. (See Kimman, Henry J., assignor.)
- Chicago Pneumatic Tool Company. (See Stevens, Edward W., assignor.)
- Chicago Railway Equipment Company. (See Busse, E. G., and Hawkins, assignors.)
- Chicago Railway Equipment Company. (See Busse, E. G., and Van Sweringen, assignors.)
- Chicago Railway Equipment Company. (See Busse, Edwin G., assignor.)
- Chicago Railway Equipment Company. (See Van Sweringen, George N., assignor.)
- Chicago Railway Equipment Company. (See Williams, C. H., and Busse, assignors.)
- Chicago Railway Equipment Company. (See Williams, Charles H., assignor.)
- Chicago Railway Signal and Supply Company. (See Warner, Arthur L., assignor.)
- Chicago Shoe Machinery Company. (See Miller, Charles F., assignor.)
- Chicago Steel Wheel Co. (See Dalrymple, William P., assignor.)
- Chicago Steel and Wire Company. (See Green, J. Birchard, assignor.)
- Chicago Trust Company, trustee. (See Kus, Thomas G., assignor.)
- Chicago Trust Company, trustee. (See Roberts, Arthur, assignor.)
- Chichester, F. I. (See Nordmark, Henry P., assignor.)
- Chicken, George, Lodi, N. J. Toothbrush. No. 1,409,830; Mar. 14.
- Chiddix, Albert W., Lamesa, Tex. Saw. No. 1,419,819; June 13.
- Chigoy, Thomas E., et al. (See Lichtenberger, Joseph A., assignor.)
- Chikashige, Masumi, and D. Uno, Kyoto, Japan. Recovering selenium and noble metals from electrolytic slimes and the like. No. 1,415,526; May 9.
- Chilcote, August A., W. A. Hatch, and W. E. Hays, assignors to Chilcote Co., Cleveland, Ohio. Picture mount. No. 1,404,579; Jan. 24.
- Chilcote Co. (See Chilcote, A. A., Hatch, and Hays, assignors.)
- Child, Stanton M., New York, N. Y. Rotatable machine board. No. 1,401,960; Jan. 3.
- Childress, Emmitt C., Edna, Tex. Stubble cutter. No. 1,436,792; Nov. 28.
- Childress, William. (See Barrett, A. M., Childress, and Trott.)
- Childress, William, Oak Park, assignor to A. M. Barrett, Winnetka, Ill. Lifting truck. No. 1,402,480; Jan. 3.
- Childs, Albert R., Fremont, Ohio. Inseam measure. No. 1,425,175; Aug. 8.
- Childs, Arthur D., North Bradley, and R. A. Turrel, Coleman, Mich. Shipping case. No. 1,411,406; Apr. 4.
- Childs, George W., administrator. (See Hamler, Peter J.)
- Childs, Irene M., assignor of one-half to E. M. Shute, Los Angeles, Calif. Toy. No. 1,424,450; Aug. 1.
- Childs, James, WallSEND-upon-Tyne, and W. Evans, Walkerville-upon-Tyne, assignors of one-half to Swan Hunter & Wigham Richardson Limited, WallSEND-upon-Tyne, England. Bulkhead and the like. No. 1,420,305; June 20.
- Childs, William L., assignor to Hughes Tool Company, Houston, Tex. Drill bit. No. 1,406,931; Feb. 14.
- Chile Exploration Company. (See Fink, Colin G., assignor.)
- Chile Exploration Company. (See Middlemiss, Bruce A., assignor.)
- Chiles, George S., assignor to American Steel Foundries, Chicago, Ill. Truck frame and lever support. No. 1,411,954; Apr. 4.
- Chilimidos, Perichis, South Bethlehem, Pa. Camera timing attachment. No. 1,436,627; Nov. 21.
- Chillingirian, Harry, Bridgeport, Conn. Safety gas stove with kitchen cabinet. No. 1,426,547; Aug. 22.
- Chillicothe Bean Snipper Company, The. (See Probst, William F., assignor.)

Alphabetical list of patentees—Continued.

- Chillingworth Manufacturing Company. (See Kogler, Edward, assignor.)
- Chilson, James W., Dayton, Iowa. Pump piston. No. 1,430,723; Oct. 3.
- Chindbloom, Carl J., assignor to American Milling Co., Peoria, Ill. Apparatus for separating seeds. No. 1,426,957; Aug. 22.
- Chini, Battista, Flushing, Ohio. Switch stand. No. 1,437,226; Nov. 28.
- Chinneck, Herbert J. L., assignor to Quinn Wire & Iron Works, Boone, Iowa. Calf weaner. No. 1,432,155; Oct. 17.
- Chiquette, Rene. (See Paradis, Joseph F., assignor.)
- Chisholm, Alice W., executrix. (See Chisholm, Charles L.)
- Chisholm, Charles L., deceased, New Glasgow, Nova Scotia, Canada; A. W. Chisholm, executrix, assignor to The Chisholm Development Co., Inc., Boston, Mass. Sound-reproducing machine. No. 1,411,235; Mar. 28.
- Chisholm, Clifton, assignor to The American Multigraph Company, Cleveland, Ohio. Impression mechanism for addressing machines. No. 1,423,189; July 18.
- Chisholm, Clifton, assignor, by mesne assignments, to The American Multigraph Company, Cleveland, Ohio. Envelope-feeding mechanism. (Reissue.) No. 15,419; July 25.
- Chisholm, Clifton, assignor to The American Multigraph Company, Cleveland, Ohio. Plate-restacking mechanism for addressing machines. No. 1,424,153; Aug. 1.
- Chisholm, Clifton, assignor to American Multigraph Company, Cleveland, Ohio. Address-plate holder. No. 1,438,578; Dec. 12.
- Chisholm, Clifton, assignor to The American Multigraph Company, Cleveland, Ohio. Mechanism for positioning the conveyor of an addressing machine. No. 1,438,579; Dec. 12.
- Chisholm, Clifton, assignor to The American Multigraph Company, Cleveland, Ohio. Assembled printing form. No. 1,438,580; Dec. 12.
- Chisholm Development Co., The. (See Chisholm, Charles L., assignor.)
- Chism, William J., Cleveland, Ohio. Nut lock. No. 1,421,127; June 27.
- Chisman, Charles, Driggs, Idaho. Automatic gravity ignition cut-out for tractors. No. 1,414,932; May 2.
- Chisolm, Alexander, St. Cloud, Minn. Automatic storm-sash lifter. No. 1,440,277; Dec. 26.
- Chladek, Joseph C., assignor of one-fourth to R. A. Beat and one-fourth to J. Beat, Mount Horeb, Wis. Dual rotary snowplow. No. 1,421,671; July 4.
- Chladek, Joseph F., Niobrara, Nebr. Haystacker. No. 1,422,667; July 11.
- Chleso, Jorgen E., San Francisco, Calif. Brush. No. 1,422,739; July 11.
- Chmielewski, Alex., Terryville, Conn. Automobile lock. No. 1,414,255; Apr. 25.
- Chmura, John, Marmarth, N. Dak. Automatic corkscrew. No. 1,421,169; June 27.
- Choate, Alonzo B., and L. J. Picha, St. Paul, Minn. Amusement device. No. 1,410,372; Mar. 21.
- Choate, Alonzo B., and L. J. Picha, St. Paul, Minn. Amusement device. No. 1,410,373; Mar. 21.
- Choate, Charles A., Calgary, Alberta, Canada. Machine for harvesting flax. No. 1,431,372; Oct. 10.
- Choate, Percy F., Worcester, assignor to United States Envelope Company, Springfield, Mass. Machine for attaching flap-securing means to envelopes. No. 1,438,980; Dec. 19.
- Choate, Roy E., Cedar Rapids, Iowa. Cable-take-up grip. No. 1,425,077; Aug. 8.
- Choate, William E., San Francisco, Calif. Fastener. No. 1,434,245; Oct. 31.
- Choate, William E., Hamilton, Mass., assignor, by mesne assignments, to Federal Finance Corporation. Machine for marking articles. No. 1,406,537; Feb. 14.
- Choate, William E., Hamilton, Mass., assignor, by mesne assignments, to Federal Finance Corporation. Agency for embellishing surfaces. No. 1,406,538; Feb. 14.
- Chochol, Joseph, Chicago, Ill., assignor of one-half to Anton Hohol, Niagara, Wis. Velocipede. No. 1,411,407; Apr. 4.
- Chochol, Joseph, Chicago, assignor of one-half to A. Hohol, Niagara, Ill. Automobile locking device. No. 1,440,278; Dec. 26.
- Cholet, Louis A. C., Montreuil-sous-Bois, France. Preserving in the fresh condition organic matters and particularly meat and fish. No. 1,418,233; May 30.
- Chopas, James G. (See Leon, C. S., and Chopas.)
- Choppinet, Joseph, G. Gillon, and V. Defays, Brussels, Belgium. Apparatus for indicating the deviations of a borehole from the vertical. No. 1,404,580; Jan. 24.
- Choppinet, Joseph, Brussels, G. Gillon, Louvain, and V. Defays, Brussels, Belgium. Joint. No. 1,436,573; Nov. 21.
- Chorny, Steve. (See Ricker, Steve, assignor.)
- Chouinard, Oscar, New York, N. Y. Production of reading matter on motion-picture films. No. 1,403,669; Jan. 17.
- Chrisman, William W., Seattle, Wash. Nursery chair. No. 1,440,132; Dec. 26.
- Christen, John A., Roosevelt, assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Airplane fitting. No. 1,437,465; Dec. 5.
- Christensen, Andrew. (See Cunningham, C. A., Christensen, and Bartlett.)
- Christensen, Andrew, Dana College, near Blair, Nebr. Support clamp for shingling straightedges. No. 1,435,698; Nov. 14.
- Christensen, Anton, Hooper, Nebr. Clutch holddown for Fordson tractor. No. 1,407,732; Feb. 28.
- Christensen, Carl V. J., et al., executors. (See Wardwell, Simon W.)
- Christensen, Christ, Kenosha, Wis. Drawer attachment for beds. No. 1,408,269; Feb. 28.
- Christensen, Christen, assignor to Electrical Engineers Equipment Co., Chicago, Ill. Bus-bar support. No. 1,409,927; Mar. 21.
- Christensen, Christen M., East Orange, N. J. Ship's log. No. 1,403,894; Jan. 17.
- Christensen, Frank M., Chicago, Ill. Auto lock. No. 1,438,169; Dec. 12.
- Christensen, Hans, and W. Starrett, Denver, Colo. Harrow and harrow attachment for tractors. No. 1,407,635; Feb. 21.
- Christensen, John L., Chicago, Ill. Fiber-board box. No. 1,422,540; July 11.
- Christensen, Louis L., Springfield, Mass. Card holder. No. 1,429,406; Sept. 19.
- Christensen Machine Company. (See Christensen, Martin, assignor.)
- Christensen, Martin, assignor to Christensen Machine Co., Racine, Wis. Signature-conveyer support. No. 1,418,865; June 6.
- Christensen, Martin, assignor to Christensen Machine Company, Racine, Wis. Delivery mechanism for signature-stitching machines. No. 1,423,647; July 25.
- Christensen, Niels C., Salt Lake City, Utah. Treating lead-zinc sulphide ores. No. 1,415,796; May 9.
- Christensen, Niels C., Salt Lake City, Utah. Treating zinc ores and zinc products. No. 1,415,797; May 9.
- Christensen, Niels C., Salt Lake City, Utah. Treating sulphide ores of zinc. No. 1,434,084; Oct. 31.
- Christensen, Niels C., Salt Lake City, Utah. Treating ores with chloride solutions. No. 1,434,085; Oct. 31.
- Christensen, Niels C., Salt Lake City, Utah. Treating sulphide ores of zinc. No. 1,434,086; Oct. 31.
- Christensen, Niels C., Salt Lake City, Utah. Treating ores containing galla. No. 1,434,087; Oct. 31.
- Christensen, Niels C., Salt Lake City, Utah. Treating lead-zinc sulphide ores. No. 1,434,088; Oct. 31.
- Christensen, Niels C., Salt Lake City, Utah. Apparatus for the counter-current washing of finely-divided solids. No. 1,434,089; Oct. 31.
- Christensen, Niels C., Salt Lake City, Utah. Apparatus for settling finely-divided solids and liquids out of suspension in gases. No. 1,434,090; Oct. 31.
- Christensen, Niels C., Salt Lake City, Utah. Treating sulphide ores of zinc. No. 1,435,699; Nov. 14.
- Christensen, Niels C., Salt Lake City, Utah. Treating lead-zinc sulphide ores. No. 1,435,891; Nov. 14.
- Christensen, Nils, Boston, Mass. Shaping metal tubing. No. 1,432,279; Oct. 17.
- Christensen, Peter, St. Louis Park, Minn. Register box and grille. No. 1,438,981; Dec. 19.
- Christensen, Peter, St. Louis Park, Minn. Register-grille-anchoring device. No. 1,438,982; Dec. 19.
- Christensen, Sander L., Willows, Calif. Rice-preservation process. No. 1,423,830; July 25.
- Christensen, Sverre, Portland, Oreg. Fishhook. No. 1,430,626; Oct. 3.
- Christensen, Thorvald F., Chicago, Ill. Automobile frog. No. 1,405,567; Feb. 7.
- Christenson, Ernst, Stockton, Kans. Railway-gate-operating mechanism. No. 1,411,408; Apr. 4.
- Christenson, Ernst, assignor of one-fourth to W. I. Smith, Stockton, Kans. Car door. No. 1,430,056; Sept. 26.
- Christenson, Frank, Dunton, Long Island, N. Y., assignor to Johns-Manville Incorporated. Roofing. No. 1,433,983; Oct. 31.
- Christenson, Martin O., Minneapolis, Minn. Noiseless gear wheel. No. 1,427,721; Aug. 29.
- Christian, Bert W., Delavan, Wis. Tool. No. 1,424,001; July 25.
- Christian, Henry C., Oakland, Calif. Connecting rod. No. 1,430,944; Oct. 3.
- Christian, Herbert A., Vallejo, Calif. Sanitary toilet seat. No. 1,405,283; Jan. 31.
- Christian, Joseph W., Haverhill, Mass. Gas-shut-off device. No. 1,402,837; Jan. 10.
- Christian, Raleigh J., Los Angeles, Calif. Apron. No. 1,411,562; Apr. 4.
- Christian, Ralph F., Chicago, Ill. Casket handle. No. 1,420,815; June 27.
- Christian, Walton G., Houston, Tex. Core-taking device. No. 1,420,242; June 20.
- Christian, William, Bridgeport, Conn. Drum and making the same. No. 1,429,848; Sept. 19.
- Christiansen, Christian, assignor to The New Way Harvester Company, Inc., Sioux Falls, S. Dak. Shocker. No. 1,413,966; Apr. 25.
- Christiansen, Hans, Brookline, assignor of one-half to B. K. Johnson, Waverley, Mass. Motor-starting switch. No. 1,402,342; Jan. 3.
- Christiansen, Heinrich, Pinneberg, Germany. Machine plant for tamping railway ties or sleepers. No. 1,408,442; Mar. 7.
- Christiansen, Julius C., New York, N. Y. Marine vessel. No. 1,408,270; Feb. 28.

Alphabetical list of patentees—Continued.

- Christianson, Andrew, Butler, assignor to Standard Steel Car Company, Pittsburgh, Pa. Six-wheel truck. No. 1,409,079; Mar. 7.
- Christianson, Arnold, Detroit, Mich. Sand mold and apparatus for making it. No. 1,428,359; Sept. 5.
- Christianson, Ray J. (See Webster, L. F., and Christianson.)
- Christie, Evi W., Sewaren, N. J. Internal-combustion motor. No. 1,428,322; Sept. 5.
- Christie, Frank D. (See De Nisson, A. C., and Christie.)
- Christie, George W. (See Blinn, C. E., and Christie.)
- Christie, Hans L., assignor of one-fourth to C. H. Clark, one-fourth to H. Beach, and one-fourth to F. Shaefer, Pittsburgh, Pa. Construction of extensible towers. No. 1,426,276; Aug. 15.
- Christie, Lewis D., Nichols, Conn., assignor to A. Oppenheim, New York, N. Y. Hose-supporter button and making same. No. 1,423,599; July 25.
- Christensen, Jens P. (See Petty, William E., assignor.)
- Christine, John M., Ford City, Pa. Means for cutting kerfs in mining. No. 1,404,835; Jan. 31.
- Christine, John M., Ford City, Pa. Apparatus for polishing plane surfaces. No. 1,417,593; May 30.
- Christlieb, Benjamin H., Fullerton, Calif. Luggage and baggage carrying apparatus. No. 1,406,539; Feb. 14.
- Christman, George L., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Knife-blade switch. No. 1,427,359; Aug. 29.
- Christman, George L., Swissvale, and J. B. MacNeill, Wilkensburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Circuit interrupter. No. 1,427,358; Aug. 29.
- Christman, John H., Cleveland, Ohio. Valve. No. 1,405,968; Feb. 7.
- Christman, Peter J., jr., Green Bay, Wis. Interfolding machine. No. 1,440,133; Dec. 26.
- Christmann, Leopold O., Beachburg, Ontario, Canada. Governor. No. 1,407,126; Feb. 21.
- Christmas Aeroplane Company, Inc. (See Christmas, William W., assignor.)
- Christmas, Allen J., Rayville, La. Lamp. No. 1,421,406; July 4.
- Christmas, William W., New York, N. Y. Material for use in aircraft construction. No. 1,412,510; Apr. 11.
- Christmas, William W., New York, N. Y., assignor to Christmas Aeroplane Company, Inc., Washington, D. C. Flying machine. No. 1,413,258; Apr. 18.
- Christoffersen, Thorvald. (See Nielsen, J. W., Hansen, and Christoffersen.)
- Christofferson, Charles L., Chicago, Ill. Hairpin. No. 1,405,815; Feb. 7.
- Christofferson, Christian A., St. Paul, Minn. Signal lamp. No. 1,422,668; July 11.
- Christofferson, Christian A., St. Paul, Minn. Illuminated signal. No. 1,422,669; July 11.
- Christoph, Emil A., assignor to King Lock Company, Chicago, Ill. Padlock. No. 1,419,358; June 13.
- Christoph, Emil A., assignor to King Lock Company, Chicago, Ill. Padlock mechanism. No. 1,419,359; June 13.
- Christophel, Carl E., assignor to Dexter Folder Company, Pearl River, N. Y. Sheet-feeding machine. No. 1,410,996; Mar. 28.
- Christophel, Carl E., and F. J. Eiserman, assignors to Dexter Folder Company, Pearl River, N. Y. Sheet-registering mechanism. No. 1,404,376; Jan. 24.
- Christopher, Arthur B., St. Louis, Mo., assignor, by mesne assignments, to Metallic Industries, Inc. Swiveling teeter. No. 1,427,722; Aug. 29.
- Christopher, Ora E. (See Flatter, C. E., and Christopher.)
- Christopherson, Alfred C., Menasha, Wis., assignor to Hacker Manufacturing Co., Chicago, Ill. Printing press. No. 1,411,267; Apr. 4.
- Christopherson, Alfred C., Menasha, Wis., assignor to Hacker Manufacturing Co., Chicago, Ill. Printing press. No. 1,411,268; Apr. 4.
- Christopherson, Martin H. (See Hemsing, M. A., and Christopherson.)
- Christy, Henry A., Kenilworth, Ill. Car roof. No. 1,412,450; Apr. 11.
- Christy, Robert L., Lamar, Colo. Tire-display fixture. No. 1,439,147; Dec. 19.
- Chriswell, Frederick W., assignor to Pacific Car & Foundry Co., Seattle, Wash. Railway car. No. 1,406,345; Feb. 14.
- Chritton, George A., trustee. (See White, J. S., and Sekavec, assignors.)
- Chromy, George, deceased, Stewart, Minn., J. Chromy, administrator. Automatic train-stopping means. No. 1,423,396; July 18.
- Chromy, Joseph, administrator. (See Chromy, George.)
- Chryst, William A. (See Kettering, C. F., and Chryst.)
- Chryst, William A., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Electric switch. No. 1,406,171; Feb. 14.
- Chryst, William A., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Engine-starting system. No. 1,406,172; Feb. 14.
- Chryst, William A., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Engine-starting system. No. 1,427,067; Aug. 22.
- Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Method of and apparatus for percussive welding. No. 1,403,292; Jan. 10.
- Chubb, Lewis W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,409,670; Mar. 14.
- Chubb, Lewis W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupter. No. 1,421,170; June 27.
- Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Single-phase dynamo-electric machine of the induction type. No. 1,427,360; Aug. 29.
- Chubb, Lewis W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical precipitating system. No. 1,433,699; Oct. 31.
- Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. High-voltage-producing means. No. 1,435,210; Nov. 14.
- Chumbley, Fred, Mokane, Mo. Holding means. No. 1,432,052; Oct. 17.
- Chun Fat, Joseph K., aboard the United States Steamship Beaver. Water-tight ventilator for ships. No. 1,414,560; May 2.
- Chunn, Richard M., Clarendon, Tex. Map hanger. No. 1,405,284; Jan. 31.
- Church, Albert E., New Britain, Conn. Bench vise. No. 1,436,860; Nov. 28.
- Church, Frank S., assignor of one-half to The Thos. J. Corcoran Lamp Co., Cincinnati, Ohio. Air spring. No. 1,403,466; Jan. 10.
- Church, Frank S., assignor of one-half to The Thos. J. Corcoran Lamp Company, Cincinnati, Ohio. Air spring. No. 1,414,623; May 2.
- Church, Frederick A., Venice, Calif. Roller-coaster railway. No. 1,410,374; Mar. 21.
- Church, Frederick A., Venice, Calif. Jointed coaster train. No. 1,431,567; Oct. 10.
- Church, Frederick F. (See Oatman, D. C., and Curvin, assignors.)
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. No. 1,403,540; Jan. 17.
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. No. 1,415,086; May 9.
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. No. 1,418,360; June 6.
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. No. 1,422,338; July 11.
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Shaft coupling. No. 1,422,339; July 11.
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. No. 1,434,428; Nov. 7.
- Church, Harold D., and E. G. Gunn, assignors to Packard Motor Car Company, Detroit, Mich. Motor vehicle. No. 1,430,945; Oct. 3.
- Church, Isaac, and LeRoy Montgomery, assignors to The Isaac Church Expansion Bolt Company, East Norwalk, Conn. Expansion bolt. No. 1,407,782; Feb. 28.
- Church, John, Company, The. (See Lee, F. A., and Rose, assignors.)
- Church, Julian E., Providence, R. I. Watch fob. No. 1,426,042; Aug. 15.
- Church, Maynard D., assignor to The Terry Steam Turbine Company, Hartford, Conn. Steam turbine. No. 1,440,209; Dec. 26.
- Church, William H., Edgewood Station, assignor of one-fourth to A. J. Richardson, Warwick, R. I. Micrometer calipers. No. 1,405,285; Jan. 31.
- Church, William L., Newton Center, Mass., assignor to Uni-Form Company. Adjustable shore. No. 1,426,359; Aug. 22.
- Churchill, Harry V. (See Edwards, J. D., Frary, and Churchill.)
- Churchill, Henry R., Buffalo, N. Y. Vehicle visor. No. 1,413,259; Apr. 18.
- Churchill, James H., et al. (See Kilgore, Frederick O., assignor.)
- Churchill, William, assignor to Corning Glass Works, Corning, N. Y. Catadioptric projector. No. 1,438,360; Dec. 12.
- Churchward, Alexander, New York, assignor to Wilson Welder & Metals Co., Inc., Brooklyn, N. Y. Electrical connection. No. 1,403,231; Jan. 10.
- Churchward, Alexander, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc. Pressure variable resistance. No. 1,413,390; Apr. 18.
- Churchward, Alexander, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc. Electric-arc welding. No. 1,416,449; May 16.
- Churchward, Alexander, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc. Electric welding method and apparatus. No. 1,416,450; May 16.
- Churchward, Alexander, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc. Electrical welding apparatus. No. 1,435,914; Nov. 21.

Alphabetical list of patentees—Continued.

- Churchward, Alexander, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc. Electrical-energy-translating apparatus. No. 1,436,152; Nov. 21.
- Churchward, Jack, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc. Metallic arc welding. No. 1,403,230; Jan. 10.
- Churchward, Jack, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc. Electrical arc welding. No. 1,423,914; July 25.
- Churchward, James, assignor of one-half to R. S. Blair, Stamford, and one-half to L. Churchward, Lakeville, Conn. Step construction for automobiles. No. 1,407,517; Feb. 21.
- Churchward, Louise, et al. (See Churchward, James, assignor.)
- Cibulas, Stephen E., Bridgeport, Conn. Skylight construction. No. 1,429,018; Sept. 12.
- Ciccioli, Raffaelli. (See Rizzon, S., and Ciccioli.)
- Cicerchi, Angelo G., Hillsville, Pa. Earring. No. 1,419,021; June 6.
- Cichon, Max, assignor to V. M. Cichon, Chicago, Ill. Emergency brake, antiskidding, and antitheft device. No. 1,421,910; July 4.
- Cichon, Virginia M. (See Cichon, Max, assignor.)
- Cichy, Edward, and R. Pesek, Chicago, Ill. Calipers. No. 1,435,630; Nov. 14.
- Cierpial, Ignacy, South Bend, Ind. Self-locking wrench. No. 1,404,581; Jan. 24.
- Ciesielska, Helena P., San Miguel, Calif. Can cover. No. 1,410,375; Mar. 21.
- Ciesla, John. (See Becker, B. H., and Ciesla.)
- Cigol, Frank A., and L. D. Villa, Paterson, N. J. Painting rubber balls and the like. No. 1,420,306; June 20.
- Cilley, Vrl I. (See Freeman, W. F., and Cilley.)
- Cinch Expansion Bolt & Engineering Company. (See Kohler, Gottfried, assignor.)
- Cinch Fastener Corporation. (See Vodicka, John, assignor.)
- Cincinnati Ball Crank Company, The. (See Breeze, Alfred B., assignor.)
- Cincinnati Bickford Tool Company, The. (See Klausmeyer, David C., assignor.)
- Cincinnati Bickford Tool Company, The. (See Norris, Henry M., assignor.)
- Cincinnati Bickford Tool Company, The. (See Schauer, L. L., assignor.)
- Cincinnati Car Company, The. (See Elliott, Thomas, assignor.)
- Cincinnati Frog & Switch Company, The. (See Henke, William E., assignor.)
- Cincinnati Horse Shoe & Iron Company, The. (See Barron, Andrew J., assignor.)
- Cincinnati Milling Machine Company, The. (See Einstein, Sol, assignor.)
- Cincinnati Milling Machine Company, The. (See Hazelton, Robert T., assignor.)
- Cincinnati Stamping Company, The. (See Case, Henry M., assignor.)
- Cinderella Heel Corporation. (See Tabor, Robert E., assignor.)
- Cinquini, Egisto, New Haven, Conn. Spring-leaf spreader and lubricator. No. 1,403,589; Jan. 17.
- Cinquini, Egisto, New Haven, Conn. Shock absorber. No. 1,438,696; Dec. 12.
- Ciotola, Joseph, and D. Polidoro, Philadelphia, Pa. Secret-combination lock. No. 1,416,790; May 23.
- Circle Stamping and Mfg. Co. (See Jones, A. H., and Anton, assignors.)
- Cirelli, Francesco, Philadelphia, Pa. Talking machine. No. 1,412,166; Apr. 11.
- Cirelli, Francesco, Philadelphia, Pa. Talking machine. No. 1,412,841; Apr. 18.
- Cisek, Joseph, Fabyan, Conn. Horseshoe. No. 1,426,958; Aug. 22.
- Ciss, Stephen, Plainville, Conn. Shade holder. No. 1,412,608; Apr. 11.
- Cissell, Joseph M., Louisville, Ky. Bumper for automobiles. No. 1,407,783; Feb. 28.
- Citizens Savings and Trust Company, The. (See Lincoln, John C., assignor.)
- City Brass Foundry Company, The. (See Prince, Harry, assignor.)
- City Machine & Tool Works. (See Nickol, Frederick C., assignor.)
- City Trust Co. Branch of the Marine Trust Co. of Buffalo, trustee. (See Graham, Andrew W., assignor.)
- Cizek, Fred L., Cedar Rapids, Iowa. Combined screen and storm door. No. 1,415,920; May 16.
- Claar, Ruby J. (See Luse, Ruby.)
- Clade, Robert, Newark, N. J. Fan. No. 1,419,719; June 13.
- Claffey, Thomas, New Britain, Conn. Hack-saw frame. No. 1,427,068; Aug. 22.
- Clagett, David, Jr., Philadelphia, Pa. Mattress or cushion. No. 1,430,946; Oct. 3.
- Clairemont, Victor, San Francisco, Calif. Preparing eggs for storage. No. 1,419,956; June 20.
- Clamert Manufacturing Company, The. (See Tirrill, Allen A., assignor.)
- Clamp Nail Company. (See Jensen, Carl C., assignor.)
- Clampitt, Thomas M., Jonesville, Ark. Automatic dry collector for textile driers. No. 1,433,121; Oct. 24.
- Clancy, John C., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Purifying and drying gases. No. 1,403,391; Jan. 10.
- Clancy, John C., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Producing gasoline and the like. No. 1,423,709; July 25.
- Clancy, John C., assignor to The Nitrogen Corporation, Providence, R. I. Desulphurizing oil. No. 1,423,710; July 25.
- Clancy, John C., assignor to The Nitrogen Corporation, Providence, R. I. Obtaining sulphur compounds from mineral oils and the like. No. 1,423,711; July 25.
- Clancy, John C., assignor to The Nitrogen Corporation, Providence, R. I. Desulphurizing oil. No. 1,423,712; July 25.
- Clancy, John C., assignor to The Nitrogen Corporation, Providence, R. I. Catalyst and preparing the same. No. 1,425,576; Aug. 15.
- Clancy, John C., assignor to The Nitrogen Corporation, Providence, R. I. Preparing purified gas mixtures. No. 1,425,577; Aug. 15.
- Clancy, John C., assignor to The Nitrogen Corporation, Providence, R. I. Preparing hydrogen. No. 1,425,578; Aug. 15.
- Clancy, John C., assignor to The Nitrogen Corporation, Providence, R. I. Generating hydrogen and hydrogen-nitrogen mixtures. No. 1,425,579; Aug. 15.
- Clancy, John C., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Synthesis of ammonia from its elements. No. 1,439,291; Dec. 19.
- Clancy, John C., assignor to The Nitrogen Corporation, Providence, R. I. Catalyst for the synthesis of ammonia from its elements. No. 1,439,292; Dec. 19.
- Clancy, John C., assignor to The Nitrogen Corporation, Providence, R. I. Making cellulose compounds. No. 1,439,293; Dec. 19.
- Clanton, Grover C., Bayonne, N. J. Wall-radiator bracket. No. 1,422,177; July 11.
- Clapp, Albert L., Marblehead, Mass. Glass-treating fabric and emulsion. No. 1,411,409; Apr. 4.
- Clapp, Albert L., Danvers, Mass. Smoke-filtering medium. No. 1,416,266; May 16.
- Clapp, Albert L. and C. B., Danvers, Mass. Paper felt. No. 1,427,263; Aug. 29.
- Clapp, Chester B. (See Clapp, Albert L. and C. B.)
- Clapp, E. H., Rubber Company. (See Pratt, William B., assignor.)
- Clapp, Harry B., Battersea Park Road, London, assignor to Ferolite Limited, London, England. Refractory material for high-temperature apparatus. No. 1,437,584; Dec. 5.
- Clapp, Lewis J., Claremont, N. H., assignor to Sullivan Machinery Company. Compressor-valve mechanism. No. 1,435,105; Nov. 7.
- Clapp, Lewis J., Claremont, N. H., assignor to Sullivan Machinery Company. Compressor. No. 1,435,135; Nov. 7.
- Clapper, James D., Bedford, Pa. Automatic railway-crossing gate. No. 1,430,947; Oct. 3.
- Clare, Hermann, Berne, Switzerland. Envelope. No. 1,418,620; June 6.
- Clarinda Lawn Mower Company. (See Watkins, Roy A., assignor.)
- Clark, A. G., et al. (See Hahn, Frank R., assignor.)
- Clark, Albert A., assignor to The Will-Burt Company, Orrville, Ohio. Truck. No. 1,428,004; Sept. 5.
- Clark, Albert H., Molesey, England. Clutch. No. 1,424,987; Aug. 8.
- Clark, Alfred A., Baltimore, Md. Washing machine. No. 1,424,154; Aug. 1.
- Clark, Alfred C. C. (See Clark, John B. and A. C. C.)
- Clark, Alva B., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Means for and method of regulating the transmission over electric circuits. No. 1,438,217; Dec. 12.
- Clark, Alva B., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Means for and method of regulating the transmission over electric circuits. No. 1,438,218; Dec. 12.
- Clark, Alva B., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Means for and method of regulating the transmission over electric circuits. No. 1,438,219; Dec. 12.
- Clark, Alva B., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Means for and method of regulating the transmission over electric circuits. No. 1,438,220; Dec. 12.
- Clark, Alva B., Brooklyn, N. Y., and G. Crisson, Hackensack, N. J., assignors to American Telephone and Telegraph Company. Method of and means for determining unbalance. No. 1,407,983; Feb. 28.
- Clark, Arthur B., Dyerville, Calif. Stove. No. 1,406,152; Feb. 7.
- Clark, Arthur W., assignor to Johnson & Johnson, New Brunswick, N. J. Fumigator. No. 1,413,321; Apr. 18.
- Clark, Augustus L., Montpelier, Vt. Gas plant. No. 1,403,590; Jan. 17.
- Clark, Bernard F. (See Lavaud, D. S., Clark, and Raines.)
- Clark, Brainerd, Rozelle, New South Wales, Australia. Combined tobacco box and holder for cigarette papers. No. 1,413,391; Apr. 18.
- Clark, Burt J. (See Heidbrink, J. A., and Clark.)
- Clark, Burton E., Pittsburgh, Pa. Automatic gas separator for oil wells. No. 1,437,721; Dec. 5.

- Clark, Cadle, Harmon Corporation. (See Couch, Forrest J., assignor.)
- Clark Car Company. (See Clark, C. H., and Beach, assignors.)
- Clark Car Company. (See Clark, Charles H., assignor.)
- Clark, Charles H., et al. (See Christie, Hans L., assignor.)
- Clark, Charles H., Easton, Me. Hoe. No. 1,428,680; Sept. 12.
- Clark, Charles H., Dormont, Pa., assignor to Clark Car Company. Side-dump car. No. 1,403,843; Jan. 17.
- Clark, Charles H., Library, Pa., assignor to Clark Car Company. Dumping car. No. 1,437,745; Dec. 5.
- Clark, Charles H., Library, and H. L. Beach, Mount Lebanon, Pa., assignors to Clark Car Company. Shaft-control device. No. 1,417,794; May 30.
- Clark, Charles N., Somerville, Mass. Dumping wagon. No. 1,434,042; Oct. 31.
- Clark, Charles N., Somerville, Mass. Wagon. No. 1,434,043; Oct. 31.
- Clark, Charles W., assignor to Roadless Traction Limited, Balsall Common, near Coventry, England. Endless-track vehicle. No. 1,437,092; Nov. 28.
- Clark, Claiborn, Los Angeles, Calif. Ear device for deaf. No. 1,408,500; Mar. 7.
- Clark, David H., Orangeburg, N. Y. Electric immersion heater. No. 1,413,322; Apr. 18.
- Clark, David H., Orangeburg, N. Y. Dispensing apparatus. No. 1,425,837; Aug. 15.
- Clark, Don A., assignor to The Clyde E. Lowe Company, Cleveland, Ohio. Mandrel for tire tubes. No. 1,412,842; Apr. 18.
- Clark, Duncan R., Forest City, Iowa. Mouthpiece for clarinets and saxophones. No. 1,411,563; Apr. 4.
- Clark, Earle A., Tulsa, Okla. Gas burner for well-drilling forges. No. 1,406,346; Feb. 14.
- Clark, Edgar H. (See Lundell, A. E., and Clark.)
- Clark, Edgar H., Richmond Hill, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,426,817; Aug. 22.
- Clark, Edgar H., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,438,743; Dec. 12.
- Clark, Edgar H., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,438,744; Dec. 12.
- Clark, Edgar M., assignor to Standard Oil Company, New York, N. Y. Pressure distillation. No. 1,405,286; Jan. 31.
- Clark, Edgar M., assignor to Standard Oil Company, New York, N. Y. Pressure distillation. No. 1,410,797; Mar. 28.
- Clark, Edgar M., assignor to Standard Oil Company, New York, N. Y. Distilling crude petroleum and product thereof. No. 1,413,260; Apr. 18.
- Clark, Edgar M., New York, N. Y., assignor to Standard Oil Company, Bayonne, N. J. Refining of petroleum oil. No. 1,413,899; Apr. 25.
- Clark, Edward B., Knoxville, assignor of one-half to G. C. Chambers, Sewickley, Pa. Producing cast tablets. No. 1,413,261; Apr. 18.
- Clark, Edward F., assignor to W. G. Clark & Co., Inc., North Attleboro, Mass. Separable cuff button. No. 1,434,680; Nov. 7.
- Clark, Edward J., Stourbridge, England. Stockless anchor. No. 1,412,102; Apr. 11.
- Clark, Edward W., deceased, by Security Trust & Savings Bank, executor, Los Angeles; said Clark assignor of one-fourth to S. S. Turner, one-fourth to S. M. Clark, and one-fourth to V. E. Turner, Los Angeles, Calif. Article of manufacture. (Reissue.) No. 15,393; June 27.
- Clark, Edwin, Chicago, Ill. Corn husker. No. 1,410,091; Mar. 21.
- Clark, Edwin W., Chicago, Ill. Photography. No. 1,429,715; Sept. 19.
- Clark, Elizabeth B., executrix. (See Clark, Melville, assignor.)
- Clark, Elliott B., Weldon, N. C. Motion-picture reel. No. 1,431,512; Oct. 10.
- Clark, Elmore R., New Brunswick, N. J. Attachment for automobiles and the like. No. 1,407,187; Feb. 21.
- Clark Equipment Company. (See Burrows, Robert J., assignor.)
- Clark Equipment Company. (See Mogford, Edmund C., assignor.)
- Clark, Ernest G., assignor to Clark Orchestra Roll Company, De Kalb, Ill. Core reinforcement of music rolls. No. 1,407,784; Feb. 28.
- Clark, Eugene C., Oswego, N. Y. Stone picker. No. 1,425,078; Aug. 8.
- Clark, F. B. (See Greenstreet, Oliver P., assignor.)
- Clark, Francisco, Durango, Mexico. Safety bottle. No. 1,430,035; Sept. 26.
- Clark, Fred Y. and L. E., Long Beach, Calif. Device for plaiting skirts. No. 1,410,653; Mar. 28.
- Clark, George A. (See Cox, Alonzo C., assignor.)
- Clark, Harold H., assignor of one-fourth to W. H. Swan, one-fourth to C. B. Van Deventer, and one-fourth to E. E. Taylor, San Bernardino, Calif. Nut lock. No. 1,412,387; Apr. 11.
- Clark, Harry A., Detroit, Mich. Pencil holder. No. 1,428,076; Sept. 5.
- Clark, Harry A., Detroit, Mich. Pencil. No. 1,428,077; Sept. 5.
- Clark, Harry A., Detroit, Mich. Railway tie and fastener. No. 1,428,078; Sept. 5.
- Clark, Harry H. (See Schaumburger, L., and Clark.)
- Clark, Harry S., Harvey, Ill. Waste receptacle. No. 1,434,480; Nov. 7.
- Clark, Henry F., Oakmont, assignor to Window Glass Machine Company, Pittsburgh, Pa. Carrier for glass articles. No. 1,405,757; Feb. 7.
- Clark, Henry F., Belle Vernon, assignor to Window Glass Machine Company, Pittsburgh, Pa. Manufacture of sheet glass. No. 1,424,155; Aug. 1.
- Clark, Henry G., et al. (See Brown, William H. A., assignor.)
- Clark, Herbert T., administrator. (See Macfarlane, James L.) (Reissue.)
- Clark, Irwin W., Evanston, Ill., assignor, by mesne assignments, to H. K. Wheelock. Retreader. No. 1,435,279; Nov. 14.
- Clark, James, assignor to S. R. Dresser Manufacturing Company, Bradford, Pa. Divided ring for pipe clamps and the like. No. 1,423,754; July 25.
- Clark, James A., Thorndale, Tex. Rake. No. 1,419,022; June 6.
- Clark, James E., W. A. Schaffer, and T. E. Clark, Detroit, Mich., assignors to The Schaffer Loom Company, Incorporated, Buffalo, N. Y. Loom. No. 1,409,892; Mar. 14.
- Clark, James H., Detroit, Mich. Vehicle wheel. No. 1,421,128; June 27.
- Clark, James H., and T. C. Whitehead, Detroit, Mich. Auxiliary rim for tractor wheels. No. 1,433,531; Oct. 31.
- Clark, James H., Portage City, Wis., assignor of one-half to J. M. Russell, Portland, Oreg. Cushioned wheel rim. No. 1,436,793; Nov. 28.
- Clark, James R., and H. A. Flogaus, Toledo, Ohio. Steering gear. No. 1,415,798; May 9.
- Clark, John B. and A. C. C., Karaka, Papakura, New Zealand, Calif. feeder. No. 1,402,739; Jan. 10.
- Clark, John E. (See Burkhardt, Ralph R., assignor.)
- Clark, John G., Holyoke, Mass. Computing device. No. 1,423,493; July 18.
- Clark, John G., Los Angeles, Calif. Footlift to raise the assembling elevator of type-casting machines. No. 1,429,844; Sept. 19.
- Clark, John O., Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Railway crossing. No. 1,433,603; Oct. 31.
- Clark, John T., Provo, Utah. Demountable rim. No. 1,429,901; Sept. 19.
- Clark, John W., Providence, R. I. Rail joint. No. 1,434,481; Nov. 7.
- Clark, John W., Providence, R. I. Rail joint. No. 1,434,482; Nov. 7.
- Clark, Joseph T. (See Randall, C. F., Clark, and Smith.)
- Clark, Joseph V., Steubenville, Ohio. Tire-changing machine. No. 1,432,967; Oct. 24.
- Clark, Le Roy G., Detroit, Mich. Electric-lighting fixture. No. 1,426,360; Aug. 22.
- Clark, Lester S., Woodensburg, Md. Repair link. No. 1,409,928; Mar. 21.
- Clark, Lincoln, Pasadena, Calif. Apparatus for treating petroleum. No. 1,418,621; June 6.
- Clark, Lula E. (See Clark, Fred Y. and L. E.)
- Clark, Luther L., Deer Trail, Colo. Combustion engine. No. 1,402,573; Jan. 3.
- Clark, MacMullen and Riley. (See Jones, Arthur B., assignor.)
- Clark, Matthew A., Brooklyn, N. Y. Phonographic apparatus. No. 1,440,134; Dec. 26.
- Clark, Melville, deceased, by E. B. Clark, executrix, Chicago, Ill., assignor to The Apollo Piano Company, De Kalb, Ill. Combined piano and phonograph. No. 1,406,441; Feb. 14.
- Clark, Melville, deceased; E. B. Clark, executrix, assignor, by mesne assignments, of one-half to W. A. Taylor, Chicago, and one-half to C. S. Burton, Oak Park, Ill. Vehicle wheel tire. No. 1,427,092; Aug. 29.
- Clark, Melville A., Syracuse, N. Y. Harp. No. 1,406,347; Feb. 14.
- Clark, Norris E., Plainville, Conn., assignor to R. S. Allyn, trustee, New York, N. Y. Expanded-metal fabric. No. 1,437,746; Dec. 5.
- Clark, Oliver W. (See Atkinson, Thomas M., assignor.)
- Clark, Omar E., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Dirt shield for rock drills. No. 1,408,691; Mar. 7.
- Clark, Omar E., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Fluid-operated motor. No. 1,424,156; Aug. 1.
- Clark Orchestra Roll Company. (See Clark, Ernest C., assignor.)
- Clark, Ren S., assignor to Hunter Clark Ventilating System Company, Chicago, Ill. Ventilator. No. 1,436,649; Nov. 28.
- Clark, Roy. (See Bell, James C., assignor.)
- Clark, Samuel B. (See Popp, F. W., and Clark.)
- Clark, Samuel H., Kerman, Calif. Combined needle and tweezers. No. 1,433,340; Oct. 24.
- Clark, Susie M., et al. (See Clark, Edward W., assignor.) (Reissue.)
- Clark, Thad, Americus, Ga. Pen. No. 1,428,079; Sept. 5.
- Clark, Thomas E. (See Clark, J. E. Schaffer, and Clark.)
- Clark, W. G., & Co. (See Clark, Edward F., assignor.)

Alphabetical list of patentees—Continued.

- Clark, W. Sam. (See Mallard, H., and White, assignors.)
 Clark, Walter G., New York, N. Y. Automatic electric heating device for glass furnaces. No. 1,420,181; June 20.
 Clark, Walter J., and W. M. Romine, Wichita, Kans. Dental flask clamp and press. No. 1,412,843; Apr. 18.
 Clark, Warren F., Cleveland, Ohio, assignor, by mesne assignments, to Automatic Electric Heater Company, Warren, Pa. Mold adapted for use in vulcanizing rubber articles. No. 1,422,084; July 11.
 Clark, Warren H., West Burlington, N. Y. Ball. No. 1,421,407; July 4.
 Clark, William J. (See Heron, J. C., Bragdon, and Clark.)
 Clark, Zachariah T., Portland, Oreg. Garden tool. No. 1,438,095; Dec. 5.
 Clarke, Alex A., Dallas, Tex. Surface-treating machine. No. 1,404,342; Jan. 24.
 Clarke, Alex A., Dallas, Tex. Surface-treating tool. No. 1,407,381; Feb. 21.
 Clarke, Athol W. (See Scanes, A. E. L., and Clarke.)
 Clarke, Charles M., et al. (See McKean, William C., assignor.)
 Clarke-Emerson Manufacturing Co. (See Clarke, Harold E., assignor.)
 Clarke, Fannie J., et al., legatees. (See Krogh, Ferdinand W.)
 Clarke, Fred C., Winfield, Kans. Stack cover. No. 1,439,226; Dec. 19.
 Clarke, Frederick F., and E. R. Inman, Franklin, Pa. Turntable for automobiles. No. 1,421,066; June 27.
 Clarke, Frederick F., Franklin, Pa., assignor to The Colburn Machine Tool Company, Cleveland, Ohio. Means for delivering cutting compound to the tools of vertical boring and turning mills. No. 1,425,943; Aug. 15.
 Clarke, Hal H., Oklahoma, Okla. Tire signal. No. 1,409,360; Mar. 14.
 Clarke, Hans T., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether composition. No. 1,405,490; Feb. 7.
 Clarke, Hans T., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether composition. No. 1,405,491; Feb. 7.
 Clarke, Hans T., assignor to Eastman Kodak Company, Rochester, N. Y. Manufacturing certain acetyl-methyl amines. No. 1,434,429; Nov. 7.
 Clarke, Hans T., and W. W. Hartman, assignors to Eastman Kodak Company, Rochester, N. Y. Manufacturing acetyl mono methyl aryl amines. No. 1,411,683; Apr. 4.
 Clarke, Harold E., Worcester, Mass., assignor to Clarke-Emerson Manufacturing Co. Foot and last measuring device. No. 1,410,092; Mar. 21.
 Clarke, Harry D. (See Zuhars, B. C., and Clarke.)
 Clarke, Harry F. J., Maquoketa, Iowa. Swimming glove. No. 1,413,967; Apr. 25.
 Clarke, Henry D., Dallas, Tex. Gin-rib structure. No. 1,407,984; Feb. 28.
 Clarke, J. Q., Tank Co. (See Clarke, John Q., assignor.)
 Clarke, James R., et al. (See Woegerer, Carl V., assignor.)
 Clarke, John Q., assignor to J. Q. Clarke Tank Co., Crawfordsville, Ind. Portable drinking fount. No. 1,431,724; Oct. 10.
 Clarke, Justin A., assignor of one-third to T. E. Benish, Vincennes, Ind. Record lifter. No. 1,406,976; Feb. 21.
 Clarke-Moore Corporation. (See Moore, Arlington, assignor.)
 Clarke, Richard A., Chattanooga, Tenn. Lifting jack. No. 1,433,069; Oct. 24.
 Clarke, Walter H., Toronto, Ontario, Canada. Resilient heel. No. 1,425,509; Aug. 15.
 Clarke, William E., Buffalo, N. Y. Deep-sea sounder. No. 1,421,672; July 4.
 Clarke, William H., et al. (See Woegerer, Carl V., assignor.)
 Clarkson, Bradley E. (See Schellentrager, E. W., and Clarkson.)
 Clarkson, Fuller, and J. M. Braham, Washington, D. C. Making urea phosphate. No. 1,440,056; Dec. 26.
 Clarkson, James W., and C. A. Dimler, Washington, D. C. Apparatus for protecting banks and the like. No. 1,419,491; June 13.
 Clary, Burton N., Beverly, and B. F. Mayo, Salem, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Cutting machine. No. 1,405,492; Feb. 7.
 Clary, John V., Newberry, S. C. Power-transmitting apparatus. No. 1,409,080; Mar. 7.
 Clasp-Tight Spring Company. (See Dick, Levi R. H., assignor.)
 Classen, Alexander, Aachen, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Obtaining sugars from substances containing cellulose. No. 1,423,217; Sept. 5.
 Classen, Ernst, Lichtenfelde-Ost, near Berlin, Germany. Fluid meter. No. 1,431,511; Oct. 10.
 Classified Automatic Directory Company, The. (See Puter, S. A. D., and Eltscher, assignors.)
 Claud-Mantle, Arthur, assignor to The Bassick Company, Bridgeport, Conn. Cabinet latch. No. 1,437,793; Dec. 5.
 Claude, Georges, Boulogne-sur-Seine, assignor to L'Air Liquide, Societe Anonyme Pour L'Etude et L'Exploitation des Procédes, Georges Claude, Paris, France. Separating the constituents of gaseous mixtures. No. 1,426,461; Aug. 22.
 Claude, Georges, Boulogne-sur-Seine, assignor to L'Air Liquide, Societe Anonyme Pour L'Etude et L'Exploitation des Procédes, Georges Claude, Paris, France. Production of hydrogen. No. 1,426,462; Aug. 22.
 Claude, Georges, assignor to L'Air Liquide Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude, Paris, France. Manufacture of compressed hydrogen. No. 1,438,581; Dec. 12.
 Clauch, William A. (See Wood, Albert G., assignor.)
 Claus, Albert H., Portland, Oreg. Hatpin. No. 1,403,722; Mar. 7.
 Claus, Emil L., Milwaukee, Wis. Gas cock and jet plug therefor. No. 1,422,033; July 4.
 Claus, Emil L. and W. E. Milwaukee, Wis. Oven-heat-control device. No. 1,433,179; Oct. 24.
 Claus, Walter E. (See Claus, Emil L. and W. E.)
 Clausen, Henry, San Francisco, Calif. Vehicle window device. No. 1,424,282; Aug. 1.
 Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone system. No. 1,403,844; Jan. 17.
 Clausen, Henry P., Mount Vernon, and C. L. Goodrum, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,403,845; Jan. 17.
 Clausen, Henry P., Mount Vernon, and C. L. Goodrum, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,407,985; Feb. 28.
 Clausen, Henry P., Mount Vernon, and C. L. Goodrum, assignors to Western Electric Company Incorporated, New York, N. Y. Telephone-exchange system. No. 1,426,818; Aug. 22.
 Clausen, Holger V., New York, N. Y. Garment supporter. No. 1,416,609; May 16.
 Clausen, Holger V., New York, N. Y. Garment supporter. No. 1,421,171; June 27.
 Clausen, Martin J., Seattle, Wash. Valve-leak indicator. No. 1,420,909; June 27.
 Clausen, Peter B., New Lisbon, Wis. Insect exterminator. No. 1,427,723; Aug. 29.
 Clausen, William C., Wauwatosa, assignor to Milwaukee Stamping Co., West Allis, Wis. Bag frame. No. 1,430,057; Sept. 26.
 Clausing, George, Delaware, Ohio. Foot tape for measuring shoes. No. 1,431,873; Oct. 10.
 Clausing, George, assignor to W. J. Burke and H. Clausing, Portsmouth, Ohio. Last-finishing machine. No. 1,431,568; Oct. 10.
 Clausing, Henry, et al. (See Clausing, George, assignor.)
 Clausing, Louis F., Burlingame, Calif. Heater. No. 1,418,361; June 6.
 Clauss, Edward P., Lyons, N. Y. Cut-off relief and automatic control air-brake valve. No. 1,403,293; Jan. 10.
 Clauss, Eugene A., Providence, and D. H. Adamson, Cranston, R. I. Bookbinding. No. 1,426,043; Aug. 15.
 Clauss, Max O., New York, N. Y. Winding device. No. 1,409,671; Mar. 14.
 Claussen, Edward E., Hartford, Conn. Machine for making pulp receptacles. No. 1,434,091; Oct. 31.
 Clavey, Gilbert A., Battersea Park, England. Machine for planing or machining propeller blades. No. 1,423,307; July 18.
 Clawson, Leonard E., San Francisco, Calif. Air-cooling device for internal-combustion engines. No. 1,411,410; Apr. 4.
 Clawson, Monroe S., Upper Montclair, N. J. Refractory cover for electric furnaces. No. 1,410,654; Mar. 28.
 Clawson, Monroe S., Upper Montclair, N. J. Electric furnace. No. 1,429,489; Sept. 19.
 Clawson, Selden I., Salt Lake City, Utah. Clothesrack. No. 1,438,697; Dec. 12.
 Clay, Harry C., Columbus, Ind., assignor to Emerson-Brantingham Company, Rockford, Ill. Valve-gear mechanism. No. 1,425,631; Aug. 15.
 Clay, Harry C., assignor to Reeves Pulley Company, Columbus, Ind. Speed-varying transmission. No. 1,434,992; Nov. 7.
 Clay, James R., Blundellsands, England. Ship's steering gear. No. 1,408,929; Mar. 7.
 Clay, James R., Blundellsands, England. Sling for handling cargo and other goods. No. 1,427,724; Aug. 29.
 Clay, Samuel B., assignor to Heine Safety Boiler Company, St. Louis, Mo. Reaming machine. No. 1,408,341; Feb. 28.
 Clay, Samuel B., St. Louis, assignor of one-half to E. R. Fish, Webster Groves, Mo. Nut-tapping machine. No. 1,410,907; Mar. 28.
 Clay, Wallace L., U. S. Army. Armor-piercing and tracer bullet. No. 1,432,669; Oct. 17.
 Clay, Wallace L., U. S. Army, and A. H. Hallowell, Frankford, Pa. Incendiary projectile. No. 1,434,681; Nov. 7.
 Clay, William H., Eustis, Fla. Bow-facing oar. No. 1,406,932; Feb. 14.
 Clayborne, Eli, Hot Springs, Ark. Snowplow. No. 1,422,417; July 11.

- Clayden, Fred, Uxbridge, and J. de Frece, London, assignors to J. C. Paterson, Birkenhead, England. Protector for boots and shoes. No. 1,437,634; Dec. 5.
- Claypoole, Guy C., Hamden, assignor to Winchester Repeating Arms Co., New Haven, Conn. Pipe wrench. No. 1,409,672; Mar. 14.
- Clayton, Clare M. (See Burgess, James H., assignor.)
- Clayton, Earl R., et al. (See New Comer, Daniel A., assignor.)
- Clayton, James, Coventry, England, assignor to The Viscose Company, Marcus Hook, Pa. Apparatus employed in the manufacture of artificial silk. No. 1,406,153; Feb. 7.
- Clayton, James, Sebakwe, Babbacombe, England, assignor to The Viscose Company, Marcus Hook, Pa. Traverse mechanism. No. 1,417,454; May 23.
- Clayton, James, Sebakwe, Babbacombe, England, assignor to The Viscose Company, Marcus Hook, Pa. Spinning box for artificial silk. No. 1,417,455; May 23.
- Clayton, James, Sebakwe, Babbacombe, England, assignor to The Viscose Company, Marcus Hook, Pa. Spinning box for artificial silk. No. 1,417,456; May 23.
- Clayton, James, Sebakwe, Babbacombe, England, assignor to The Viscose Company, Marcus Hook, Pa. Apparatus for spinning artificial silk. No. 1,425,368; Aug. 8.
- Clayton, James, Babbacombe, England, assignor to The Viscose Company, Marcus Hook, Pa. Apparatus for and method of manufacturing artificial silk. No. 1,429,127; Sept. 12.
- Clayton, James, Sebakwe, Babbacombe, England, assignor to The Viscose Company, Marcus Hook, Pa. Skinning machine. No. 1,435,805; Nov. 14.
- Clayton, Lewis J., Bowmanville, assignor to Goodyear Tire & Rubber Co. of Canada Limited, New Toronto, Ontario, Canada. Trimming machine. No. 1,412,338; Apr. 11.
- Clayton, Peter K., jr., et al. (See Gilbert, Frank V., assignor.)
- Clayton, William E., Altoona, Kans. Priming rod. No. 1,408,443; Mar. 7.
- Clayton, William F., Huntsville, Ala. Picker-stick check for looms. No. 1,421,172; June 27.
- Clayton & Lambert Manufacturing Company. (See Groehn, Otto J., assignor.)
- Cleal, Joseph F., Toronto, Ontario, and C. H. Gibbons, Victoria, British Columbia, Canada. Camera. No. 1,426,713; Aug. 22.
- Clear, Charles J., Vancouver, Wash. Grader. No. 1,427,264; Aug. 29.
- Clear, Charles J., Vancouver, Wash. Filling machine. No. 1,427,265; Aug. 29.
- Clear Vision Pump Company, The. (See Crouse, Emory, assignor.) (Reissue.)
- Cleary, Edwin, London, England. Liquid vaporizer. No. 1,418,234; May 30.
- Cleary, James F., Kansas City, Kans. Box-blank-scoring machine. No. 1,414,549; May 2.
- Clebo, Steve. (See Panik, J., and Clebo.)
- Cleeve, Henry F., assignor of one-third to W. J. Billings, Jamaica, N. Y. Vehicle wheel. No. 1,415,991; May 16.
- Cleffton, Claud J. and G. J., Owatonna, Minn. Gas generator. No. 1,417,974; May 30.
- Cleffton, Claud J., assignor to The Cleffton Company, Owatonna, Minn. Stove burner. No. 1,428,146; Sept. 5.
- Cleffton Company, The. (See Cleffton, Claud J., assignor.)
- Cleffton, Guy J. (See Cleffton, Claude J. and G. J.)
- Clegg, Frank. (See Desselle, Peter J., assignor.)
- Clegg, James W., Oldham, England. Combing machine. No. 1,402,569; Jan. 3.
- Clegg, James W., Oldham, England. Combing machine. No. 1,418,908; June 6.
- Clegg, James W., Oldham, England. Combing machine. No. 1,424,621; Aug. 1.
- Cleghorn, Belle D. (See Carlyle, Clyde A., assignor.)
- Cleghorn, Charles A., Bedfordshire, assignor to The Gayner Pneumatic Company, Limited, London, England. Receptacle, flexible conduit gas mask, and the like. No. 1,422,670; July 11.
- Clein, Elias. (See Beck, Charles F., assignor.)
- Cleland, Chester C., Cleveland, Ohio. Power-transmitting unit. No. 1,430,627; Oct. 3.
- Clement, Alvah W., East Cleveland, assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio. Titanium alloy. No. 1,431,725; Oct. 10.
- Clement, Benj. H., et al., executors. (See Foster, C. B., and Clement.)
- Clement, Charles G., assignor to Highway Trailer Company, Edgerton, Wis. Pintle hook for trailer couplings. No. 1,408,501; Mar. 7.
- Clement, Edward E., Washington, D. C., assignor, by mesne assignments, to J. R. Garfield, trustee, Cleveland, Ohio. Telephone-exchange system. No. 1,416,088; May 16.
- Clement, Frank H. (See Foster, C. B., and Clement.)
- Clement, Hans, New York, N. Y., assignor to General Optical Company, Inc. Accessory for ophthalmometers. No. 1,421,173; June 27.
- Clement, Lewis M., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Receiving station. No. 1,415,992; May 16.
- Clement, Louisa S., et al., executors. (See Foster, C. B., and Clement.)
- Clement, Mary G., et al., executors. (See Foster, C. B., and Clement.)
- Clement, W. N., et al. (See Dills, Philip L., assignor.)
- Clements, C. R., trustee. (See Stark, John R., assignor.)
- Clements, Cecil, J. W. Swart, and C. E. Nutbrown, Rochester, N. Y. Illuminated license-plate holder and reflector. No. 1,414,772; May 2.
- Clements, Everett G., Washington, D. C. Repeating attachment for talking machines. No. 1,414,980; May 2.
- Clements, George, Chicago, Ill. Gas furnace and blowtorch. No. 1,431,633; Oct. 10.
- Clements, George, assignor to Clements Mfg. Co., Chicago, Ill. Blower. No. 1,423,190; July 18.
- Clements, George, assignor to Clements Mfg. Co., Chicago, Ill. Adjustable rear support for vacuum cleaners. No. 1,431,634; Oct. 10.
- Clements Mfg. Co. (See Clements, George, assignor.)
- Clements, Richard L., Irvington, N. J. Solderless can-sealing apparatus. No. 1,440,057; Dec. 26.
- Clemetsen Company. (See Vaaler, Jens, assignor.)
- Clemm, Hans, and C. Hangleiter, assignors to Zellstoff-fabrik Waldhof, Mannheim-Waldhof, Germany. Recuperation of the sulphurous acid and heat from waste gases coming from boilers for cellulose. No. 1,429,128; Sept. 12.
- Clemmer, Joel G. (See Eschinger, Edward A., assignor.)
- Clemons, Henry L., Copper Hill, Va. Automatically-locking brake lever. No. 1,435,804; Nov. 14.
- Clemson, Richard D., Middletown, N. Y., assignor to Ideal Wrapping Machine Company. Power hack saw. No. 1,437,494; Dec. 5.
- Clench, William A., Seattle, Wash. Demountable-rim-locking device. No. 1,440,210; Dec. 26.
- Clerc, Camille, assignor of one-half to A. Nihoul, Paris, France. Extracting tin from tin-plate chips. No. 1,413,555; Apr. 18.
- Clergy, Louis J., assignor to Liberty Manufacturing Company, Belt, Mont. Automobile bed. No. 1,419,820; June 13.
- Clerke, Augustus B. H. (See Hadfield, R. A., Jack, and Clerke.)
- Clermont, John B., New York, N. Y. Apparatus and package for forming solutions by percolation. No. 1,412,888; Apr. 11.
- Cleveland Brass Manufacturing Company, The. (See Clement, Alvah W., assignor.)
- Cleveland Brass Manufacturing Company, The. (See Smith, William H., assignor.)
- Cleveland Chain and Manufacturing Company, The. (See Jones, Henry L., assignor.)
- Cleveland, Clement, New York, N. Y. Pencil sharpener. No. 1,417,034; May 23.
- Cleveland, Edgar W., Holland, Mich. Journal adjustment for arms of multiple-spindle drills. No. 1,413,004; Apr. 18.
- Cleveland Folding Machine Company. (See Hitchcock, Reuben, assignor.)
- Cleveland Folding Machine Company, The. (See Olson, Andrew, assignor.)
- Cleveland Folding Machine Company, The. (See Trautman, Walter G., assignor.)
- Cleveland Graphite Bronze Company, The. (See Brehmer, William G. H., assignor.)
- Cleveland Implement Manufacturing Company, The. (See Hist, John, assignor.)
- Cleveland Industrial Development Company, The. (See Kraber, George L., assignor.)
- Cleveland Metal Products Company, The. (See Chadwick, Lee S., assignor.)
- Cleveland Osborn Manufacturing Company. (See Frost, Clinton E., assignor.)
- Cleveland Pneumatic Tool Company, The. (See Greve, Louis W., assignor.)
- Cleveland, Ralph E., Oakland, Calif. Brush. No. 1,437,794; Dec. 5.
- Cleveland Tractor Company, The. (See Savage, Edwin H., assignor.)
- Cleveland Trust Company, The. (See Mooers, Louis P., assignor.)
- Cleveland, William E., Medford, Mass. Steam boiler and making the same. No. 1,420,182; June 20.
- Cleveland Worm and Gear Company, The. (See Fitzpatrick, David, assignor.)
- Clevenger, David M., Reeds, Mo. Harrow. No. 1,428,360; Sept. 5.
- Clevenger, George W. (See Brown, Albert, assignor.)
- Clevenger, George W., Chillicothe, Mo. Dirigible headlight. No. 1,439,796; Dec. 26.
- Clevenger, James L., Columbus, Ind. Leather-sole-softening machine. No. 1,422,927; July 18.
- Clever, Simon E. (See Edens, R. W., and Clever.)
- Clews, Bert, West Hampstead, and H. M. Petersen, Willesden Green, London, England. Piston ring and the like and manufacturing same. No. 1,433,937; Oct. 31.
- Click, William S., Turtle Creek, Pa., assignor to Westinghouse Electric & Manufacturing Company. Commutator brush. No. 1,425,632; Aug. 15.
- Cliff, Jabez, & Company Limited. (See Edwards, Alfred T., assignor.)
- Clifford, C. C., and C. J. Mott, Coleraine, Minn. Revolving grizzly. No. 1,408,799; Mar. 7.
- Clifford, Dell G., Chicago, Ill. Tire-inflation valve. No. 1,403,484; Jan. 17.

Alphabetical list of patentees—Continued.

- Clifford, Frank, Milwaukee, Wis. Cigarette roller. No. 1,419,224; June 13.
- Clifford, Harry F., and R. H. C. Grunewald, assignors to John Bath & Company, Inc., Worcester, Mass. Gauge. No. 1,438,634; Dec. 12.
- Clifford, Joseph A., Washington, D. C. Electric lamp. No. 1,405,287; Jan. 31.
- Clifford, Oliver N., et al. (See Evans, Joseph E., assignor.)
- Clifford, Walter B., Fitchburg, Mass. Auxiliary air valve for internal-combustion engines. No. 1,434,282; Oct. 31.
- Clifford, William H., London, England. Combined speed reducer and slip clutch. No. 1,410,655; Mar. 28.
- Clift, Chester H., Nyack, N. Y. Tearing machine. No. 1,407,636; Feb. 21.
- Clift, Frank L. (See Odell, S. E., and Clift.)
- Clifton, Francis R., Omaha, Nebr. Tool. No. 1,419,023; June 6.
- Clifton, Robert K., Philadelphia, Pa. Shingle. No. 1,436,945; Nov. 28.
- Clifton, William E. (See Ewart, J. S., and Clifton.)
- Clifton, William E., and J. S. Ewart, Nottingham, assignors to Cliftonphone Limited, London, England. Sound recording and reproducing instrument. No. 1,425,944; Aug. 15.
- Cliftonphone Limited. (See Clifton, W. E., and Ewart, assignors.)
- Clinchfield Coal Corporation. (See Wolfe, William E., assignor.)
- Cline, Allan J., Chicago, Ill. Motor controller. No. 1,405,493; Feb. 7.
- Cline, Allan J., Chicago, Ill. Web-roll stand. No. 1,434,943; Nov. 7.
- Cline, Azl A., Beckley, W. Va. Safety-brake appliance. No. 1,438,426; Dec. 12.
- Cline, Calvin J. (See Huggins, C. M., and Cline.)
- Cline, Francis E. (See Cline, Nelson T. and F. E.)
- Cline, Jerry D., Akron, Ohio. Legging. No. 1,440,340; Dec. 26.
- Cline, Martin, Malinta, and F. Herge, assignors to The Standard Tractor Control Company, Youngstown, Ohio. Extension steering device. No. 1,402,838; Jan. 10.
- Cline, Martin L., and F. Herge, Malinta, Ohio. Clutch-lever retainer. No. 1,424,081; July 25.
- Cline, Nelson T., Pittsburgh, Pa., and F. E. Cline, Indianapolis, Ind. Automatic lubricator control. No. 1,436,432; Nov. 21.
- Cline, Wesley, Edmonton, Alberta, Canada. Automobile signal. No. 1,414,981; May 2.
- Cline, William G., Gallatin, Mo. Clothing guard for fastenings. No. 1,434,092; Oct. 31.
- Clinefelter, James C., and H. Ries, Barberton, Ohio. Manufacture of tires. No. 1,407,839; Feb. 28.
- Clink, George V., St. Paul, Minn. Game. No. 1,439,946; Dec. 26.
- Clinton, Frederick D., Milwaukee, Wis. Reaction spraying mechanism for dishwashing machines. No. 1,408,077; Feb. 28.
- Clinton Refrigerating Company. (See Wishart, W., and Morrell, assignors.)
- Clinton, Thomas J., Detroit, Mich. Refrigerator. No. 1,404,191; Jan. 24.
- Clipper Belt Lacer Company. (See Conn, Joseph C., assignor.)
- Clippinger, John E. (See Reed, B. E., and Clippinger.)
- Clithero, George I. (See Wasson, William W., assignor.)
- Clopton, Mortimer L., Wichita Falls, Tex. Ring gauge. No. 1,424,082; July 25.
- Close, Daniel H., Keyport, N. J. Burglar lock for revolving doors. No. 1,435,050; Nov. 7.
- Close, Edmund E., Campello, assignor of one-half to W. J. Healy, Boston, Mass. Device for use in repairing shoes. No. 1,412,270; Apr. 11.
- Close, Lyman W., assignor to The Bock Bearing Company, Toledo, Ohio. Roller bearing. No. 1,427,520; Aug. 29.
- Closson, Clarence E., Potlatch, Idaho. Advertising cabinet. No. 1,416,267; May 16.
- Closure Service Corporation. (See Carvalho, Leslie R. N., assignor.)
- Cloud, Charles A., et al. (See Coates, Clinton T., assignor.)
- Cloud, John W., London, England, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. No. 1,403,846; Jan. 17.
- Cloud, William H., Yakima, Wash. Preparing foods. No. 1,411,479; Apr. 4.
- Clough, Frederic H. (See Taylor, H. W., Clough, and Whitaker.)
- Clough, Frederic H., Rugby, England, assignor to General Electric Company. Ship-propulsion system. No. 1,411,987; Apr. 4.
- Clough, Frederick H. (See Martin, J., and Clough.)
- Closure, William L., assignor to The National Machinery Co., Tiffin, Ohio. Ejecting attachment for heading machines. No. 1,412,844; Apr. 18.
- Closure, William L., assignor to The National Machinery Co., Tiffin, Ohio. Upsetting dies. No. 1,427,521; Aug. 29.
- Clouser, Clarence J., Columbus, Ohio. Swing. No. 1,419,660; June 13.
- Clouser, Fredrick F., St. Louis, Mo. Floor-indicating mechanism for elevators. No. 1,409,831; Mar. 14.
- Clouser, Harry E., and E. R. Thornton, Stockton, Calif. Means for making building blocks. No. 1,410,166; Mar. 21.
- Cloutier, André, assignor to the Société Etablissements Georges Lutz G. Krempf, Paris, France. Surface-measuring machine. No. 1,413,517; Apr. 18.
- Cloutier, Rosario, Montreal, Quebec, Canada. Furnace. No. 1,437,167; Nov. 28.
- Clover Leaf Creamery Company. (See Engholm, Peter, assignor.)
- Clowry, William H., Chicago, Ill. Internal-combustion engine. No. 1,434,093; Oct. 31.
- Cluett, Peabody & Co. Inc. (See Kennedy, R. O., Gillespie, and Marshall, assignors.)
- Cluett, Peabody & Co. (See Schreiner, George A., assignor.)
- Cluett Peabody & Co. (See Thomas, James A., assignor.)
- Culey, John P., Chicago, Ill. Micrometer caliper. No. 1,414,550; May 2.
- Clum, Ira E., Lima, Ohio. Bracket. No. 1,408,930; Mar. 7.
- Clum, Ira E., Lima, Ohio. Anchor for fences. No. 1,426,044; Aug. 15.
- Clum, Ira E., Lima, Ohio. Cornerrib. No. 1,426,045; Aug. 15.
- Clump, Frederick G., and E. A. Burrows, assignors to Continental Machinery Company, Chicago, Ill. Valve mechanism. No. 1,439,503; Dec. 19.
- Clutter, Leroy P., Beaver Falls, Pa. Excavator. No. 1,405,288; Jan. 31.
- Clutter, Le Roy P., West Finley, Pa. Cabinet for phonographic disks. No. 1,416,689; May 23.
- Clyde E. Lowe Company, The. (See Clark, Don A., assignor.)
- Clyde, George S., Brooklyn, N. Y. Oil burner. No. 1,404,582; Jan. 24.
- Clymer, Earl H. (See Dinning, T. W., and Clymer.)
- Clymer, Reuben S., Quakertown, Pa. Vehicle jack. No. 1,410,376; Mar. 21.
- Clymer, Reuben S., Quakertown, Pa. Automobile truck. No. 1,428,681; Sept. 12.
- Cmeyla, Bozema, Kewaunee, Wis. Flour sifter. No. 1,417,035; May 23.
- Coach Builders Hardware Company. (See Mastenbrook, Henry J., assignor.)
- Coalwell, Charles B., assignor of one-half to C. A. Melinger, Pine Island, Minn. Damper. No. 1,429,190; Sept. 12.
- Coar, Enos E., South Bend, Ind. Antifreezing sill cock. No. 1,412,042; Apr. 11.
- Coarl, Frank A., Chicago, Ill. Nut-cracking machine. No. 1,407,325; Feb. 21.
- Coatalen, Louis, and J. S. Irving, assignors of one-half to Sunbeam Motor Car Company, Limited, Wolverhampton, England. Heater and baffle for the induction pipes of internal-combustion engines. No. 1,408,562; Mar. 7.
- Coate, William V., Greenville, Ohio. Bookholder. No. 1,428,757; Sept. 12.
- Coates, Charles B., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Dashpot. No. 1,436,084; Nov. 21.
- Coates, Charles B., Erie, Pa., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Overload-circuit breaker. No. 1,439,692; Dec. 26.
- Coates, Charles B., Erie, Pa., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Overload-circuit breaker. No. 1,439,693; Dec. 26.
- Coates, Clinton T., assignor of one-third to A. W. Albrecht and one-third to C. A. Cloud, St. Louis, Mo. Metal-ball-rolling machine. No. 1,429,676; Sept. 19.
- Coates, Frederick, assignor to Federal Products Company, Cincinnati, Ohio. Paper-coating composition. No. 1,414,256; Apr. 25.
- Coates, Frederick, assignor to Federal Products Company, Cincinnati, Ohio. Die press. No. 1,415,018; May 9.
- Coates, Frederick, assignor to Federal Products Company, Cincinnati, Ohio. Can-capping tool. No. 1,421,673; July 4.
- Coates, Frederick, assignor to Federal Products Company, Cincinnati, Ohio. Semiauto paper winder. No. 1,439,606; Dec. 19.
- Coates, Frederick, assignor to Federal Products Company, Cincinnati, Ohio. Automatic die press. No. 1,439,607; Dec. 19.
- Coates, Frederick, assignor to Federal Products Company, Cincinnati, Ohio. Liquid-coating machine. No. 1,439,608; Dec. 19.
- Coates, Frederick, assignor to Federal Products Company, Cincinnati, Ohio. Automatic carton-heading machine. No. 1,439,609; Dec. 19.
- Coates, J. & P., (R. I.) Inc. (See Reilly, Thomas A., assignor.)
- Coates, Joseph, Luke, Md., assignor of one-fourth to J. B. Maybury, Piedmont, W. Va. Lock railway switch. No. 1,411,162; Mar. 28.
- Coates, Leonard R., Laurel, Md. Phosphatic fertilizer material and making the same. No. 1,425,747; Aug. 15.
- Coates, William A., Chorlton-cum-Hardy, G. E. Giffins and D. R. Davies, Manchester, England, assignors, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Electrical switch gear. No. 1,402,570; Jan. 3.
- Coats, Henry B., Veedersburg, Ind. Vacuum tank. No. 1,438,745; Dec. 12.

Alphabetical list of patentees—Continued.

- Coats, William T., New Orleans, La. Lock protector. No. 1,439,868; Dec. 26.
- Cobb, Albert B., assignor to Cobb Electric Appliance Company, Boston, Mass. Pressure-operated switch. No. 1,406,613; Feb. 14.
- Cobb, Alton E., Los Angeles, Calif. Gas stove. No. 1,427,069; Aug. 22.
- Cobb, Augustus A., Marion, Mass. Lamp attachment. No. 1,418,128; May 30.
- Cobb, Clarence L. (See Samter, S. M., and Cobb.)
- Cobb, Edward S., Whittier, Calif. Frost preventer for orchards. No. 1,411,564; Apr. 4.
- Cobb Electric Appliance Company. (See Cobb, Albert B., assignor.)
- Cobb, Ernest B., Jersey City, N. J., assignor to Standard Oil Company. Desulphurizing petroleum oils. No. 1,413,005; Apr. 18.
- Cobb, Jesse, Laredo, Tex. Crate. No. 1,427,193; Aug. 29.
- Cobb, Henry Z., New York, N. Y., assignor to New York Belting & Packing Company. Tube-making machine. No. 1,418,535; June 6.
- Cobb, Pope, Brownsville, Tenn. Bed lock. No. 1,419,957; June 20.
- Cobb Shockless Crossing Corporation. (See McFarland, Samuel E., assignor.)
- Coberly, Clarence J., Los Angeles, Calif., assignor to California Burdett Oxygen Company. Cutting torch. No. 1,404,011; Jan. 17.
- Coberly, Clarence J., Los Angeles, Calif., assignor to California Burdett Oxygen Company. Welding torch. No. 1,436,433; Nov. 21.
- Coblentz, William W., Washington, D. C. Electrical resistance. No. 1,418,362; June 6.
- Coburn, Clarence W., San Francisco, Calif. Shock absorber. No. 1,419,614; June 13.
- Coburn, Richard G., Chicago, Ill., assignor, by mesne assignments, to American Foundry Equipment Company, New York, N. Y. Sand-blast machine. No. 1,424,713; Aug. 1.
- Coburn Trolley Track Manufacturing Company, The. (See Ballard, Harry E., assignor.)
- Coburn Trolley Track Manufacturing Company, The. (See Reid, Alexander H., assignor.)
- Cobus, Lawrence J., Milwaukee, Wis. Steering-wheel heater. No. 1,416,946; May 23.
- Cocanari, Silvio, Rome, Italy, assignor to L. Gevaert et al., Vieux-Dieu, near Antwerpen, Belgium. Roll film for photographic purposes and its wrapping. No. 1,436,478; Nov. 21.
- Cocayne, George B., Sioux City, Iowa. Level. No. 1,430,535; Oct. 3.
- Cochran, Clyde E., Cleveland, Ohio. Side-car attachment. No. 1,413,575; Apr. 25.
- Cochran, Clyde E., assignor to The Elwell-Parker Electric Company, Cleveland, Ohio. Spring steering fork for wheeled vehicles. No. 1,422,671; July 11.
- Cochran, Clyde E., assignor to The Elwell-Parker Electric Company, Cleveland, Ohio. Industrial truck. (Reissue.) No. 15,497; Nov. 28.
- Cochran, Clyde E., assignor to The Elwell-Parker Electric Company, Cleveland, Ohio. Load-securing means for industrial trucks. No. 1,439,227; Dec. 19.
- Cochran, Clyde E., assignor to The Elwell-Parker Electric Company, Cleveland, Ohio. Load-securing means for industrial trucks. No. 1,439,228; Dec. 19.
- Cochran, Eva E., Lodi, Calif. Butt hook. No. 1,424,238; Aug. 1.
- Cochran, Frederick K., Los Angeles, Calif. Safety fender for car wheels. No. 1,416,610; May 16.
- Cochran, Robert J., Cedar, Kans. Tire chain. No. 1,432,534; Oct. 17.
- Cochran, Walter E., Lockport, N. Y. Cotton bat. No. 1,405,185; Jan. 31.
- Cochran, William R., Delphos, Ohio, assignor of two-thirds to B. E. Jordan and J. C. Jordan, Detroit, Mich. Shock absorber for vehicles. No. 1,425,176; Aug. 8.
- Cochrane, Charles H., New York, N. Y. Printing press. No. 1,414,339; May 2.
- Cochrane, Charles H., New York, N. Y. Means for controlling the flow of fluids. No. 1,423,831; July 25.
- Cochrane, H. S. B. W. Corporation. (See Elfret, Harold D., assignor.)
- Cochrane, H. S. B. W. Corporation. (See Yoder, Joseph D., assignor.)
- Cochrane, Robert L., Chicago, Ill., assignor to National Lock Washer Company, Newark, N. J. Nut lock. No. 1,427,194; Aug. 29.
- Cochrane, Sanders V., Bridgetown, Tex. Band cutter. No. 1,421,764; July 4.
- Cock, Frederick D. (See Lodge, Edwin W., assignor.)
- Cock, Roger B., Gomshall, England, assignor to himself and W. W. Williams. "Bodelwyddan," Rhyddlan, Flint, England. Tanning composition. No. 1,402,283; Jan. 3.
- Cockburn, David, and D. MacNicol, Cardonald, near Glasgow, Scotland. Engine stop gear. No. 1,416,791; May 23.
- Cockburn, David, Cardonald, near Glasgow, and E. McDonald, Paisley, Scotland. Reversible propeller. No. 1,418,622; June 6.
- Cockburn, Francis B., and E. S. Bird, assignors to The Lodge & Shipley Machine Tool Company, Cincinnati, Ohio. Crank turner. No. 1,435,631; Nov. 14.
- Cockburns, Limited, et al. (See Armstrong, R. B., and Paterson, assignors.)
- Cockcroft, Walter, assignor of one-half to William P. Paul, Philadelphia, Pa. Tool holder. No. 1,410,528; Mar. 21.
- Cocke, John D., Richmond, Va. Snow-removing machine. No. 1,420,522; June 20.
- Cocking, Allen T., Sutton, Coldfield, and C. H. Lilly, Birmingham, England. Production of glycerin by fermentation. No. 1,425,838; Aug. 15.
- Cockrell, William D. (See Sharp, A. H., and Cockrell.)
- Cocks, George H., Adrian, Mich. Combined tilting and sliding steering wheel. No. 1,414,458; May 2.
- Coda, Christopher F., Detroit, Mich. Cushion seat. No. 1,419,492; June 13.
- Coda, Christopher F., assignor to Jenks & Muir Manufacturing Co., Detroit, Mich. Spring-seat frame. No. 1,404,272; Jan. 24.
- Codding, May K., San Francisco, Calif. Treating ore. No. 1,402,740; Jan. 10.
- Codding, May K., San Francisco, Calif. Composition of matter for extracting and recovering mercury from sulphide ores. No. 1,402,741; Jan. 10.
- Codding, May K., San Francisco, Calif. Extracting mercury. No. 1,402,742; Jan. 10.
- Coddington, Charles C. (See Fite, C. V., and Coddington.)
- Coddington, Earl L., Middletown, assignor of one-half to G. D. C. Coddington, West Middletown, Ohio. Sealing composition. No. 1,429,407; Sept. 19.
- Coddington, Georgie D. C. (See Coddington, Earl L., assignor.)
- Coddington, George D. C., West Middletown, Ohio. Milk-bottle holder. No. 1,433,938; Oct. 31.
- Code Manufacturing Company. (See Ayotte, Joseph R., assignor.)
- Codish, George, Brooklyn, N. Y. Sandal. No. 1,436,479; Nov. 21.
- Codman, Russell, Jr. (See Rollins, William T., assignor.)
- Coe, Charles B., Merchantville, N. J. Disk-placing mechanism for talking machines. No. 1,410,134; Mar. 28.
- Coe, Charles T., Kearny, N. J. Lubricating device. No. 1,419,821; June 13.
- Coe, Edward, Battle Creek, Mich. Toboggan and slide. No. 1,417,594; May 30.
- Coe, Herbert M., San Jose, Calif. Door hanger. No. 1,410,167; Mar. 21.
- Coe, James R., assignor to The American Brass Company, Waterbury, Conn. Apparatus for rolling metal. No. 1,429,061; Sept. 12.
- Coe, John P., Hastings-on-Hudson, N. Y., assignor to Morgan & Wright. Tire casing and supporting means therefor. No. 1,418,623; June 6.
- Coelho, Arthur, Brooklyn, N. Y. Attachment to linotype machines. No. 1,430,796; Oct. 3.
- Coelho, Arthur, Brooklyn, N. Y. Numbering machine for line-casting machines. No. 1,432,441; Oct. 17.
- Coen Co. (See Sherwood, Carlyle J., assignor.)
- Coen Company. (See Blankenhorn, George S., assignor.)
- Coen, Garnet W., Piedmont, Calif. Oil heater. No. 1,436,380; Nov. 21.
- Coenen, Edouard, Forest, Belgium. Screw-cutting head. No. 1,406,540; Feb. 14.
- Coffee, Bassett M., Jersey City, N. J., assignor to Safety Car Heating & Lighting Company. Car-lighting system. No. 1,436,697; Nov. 28.
- Coffelder, Thomas N., Pittsburgh, Pa. Auxiliary air and air-moistening device for internal-combustion engines. No. 1,411,841; Apr. 4.
- Coffelt, George F., Dayton, Ohio. Rotary engine. No. 1,404,583; Jan. 24.
- Coffey, E. C., et al. (See Thomas, Martin E., assignor.)
- Coffey, Edward P., Spokane, Wash. Rim tool. No. 1,430,058; Sept. 26.
- Coffey, Irven E., Lawton, Okla. Transmission-controlling mechanism. No. 1,402,839; Jan. 10.
- Coffey, Irven E., Lawton, Okla. Controlling apparatus for the power-transmission mechanism of motor vehicles. No. 1,402,840; Jan. 10.
- Coffey, Irven E., Lawton, Okla. Transmission-controlling mechanism. (Reissue.) No. 15,312; Mar. 21.
- Coffey, Samuel A., and J. B. Ernsdorff, Yakima, Wash. Motor vehicle. No. 1,433,122; Oct. 24.
- Coffield, James L., Dayton, Ohio. Wringer-supporting mechanism for washing machines. No. 1,414,551; May 2.
- Coffield, James L., Dayton, Ohio. Clutch for washing machines. No. 1,433,259; Oct. 24.
- Coffin, Arthur B., Spiceland, Ind. Automatic clutch release for tractors. No. 1,438,096; Dec. 5.
- Coffin, Charles F., Jr. (See Mork, H. S., and Coffin, Jr.)
- Coffin, Joseph G. (See Bradley, C. E., and Coffin.)
- Coffin, Vernon W. J., Toronto, Ontario, Canada. Putty gun. No. 1,429,019; Sept. 12.
- Coffin, Walter E., assignor to The National Malleable Castings Company, Cleveland, Ohio. Hand-brake mechanism. No. 1,431,569; Oct. 10.
- Coffman, J. G., et al. (See Cudlipp, George R., assignor.)
- Coggeshall, George W., and T. M. Rector, assignors to The Institute of Industrial Research, Inc., Washington, D. C. Recovery of volatile solvents. No. 1,418,363; June 6.
- Coggin, Frank F. (See Gullage, Joseph, assignor.)
- Coggin, Frank F., et al. (See McLaughlin, Milton P., assignor.)
- Coghlan, Thomas G., Wellsburg, W. Va. Thermocouple. No. 1,422,672; July 11.

Alphabetical list of patentees—Continued.

- Cogsdill, Stuart A., assignor to Grinding Process Tool Company, Detroit, Mich. Salvaging cutting tools. No. 1,403,011; Jan. 10.
- Cogswell, Leander A., assignor to Lacene Manufacturing Company, Manchester, N. H. Work support and feed for heel-lift graders. No. 1,433,873; Oct. 31.
- Cogswell, Seward E., Central City, Nebr. Automatic sampler. No. 1,414,805; May 2.
- Co Hagan, William E., Denver, Colo. Treating cork. No. 1,439,869; Dec. 26.
- Cohen, Abe, Brooklyn, N. Y. Rat guard. No. 1,420,243; June 20.
- Cohen, Abraham B., Far Rockaway, N. Y. Tooth-cleaning device. No. 1,421,911; July 4.
- Cohen, Alice H., executrix. (See Cohen, Stanley A.)
- Cohen, Dan, Memphis, Tenn. Tire plug. No. 1,411,411; Apr. 4.
- Cohen, Harry. (See Wolfe, Daniel D., assignor.)
- Cohen, Hyman E., Brooklyn, N. Y. Electric water heater and steam generator. No. 1,420,692; June 27.
- Cohen, Hyman E., Syracuse, N. Y. Electric boiler. No. 1,420,693; June 27.
- Cohen, Jacob L., assignor of one-third to L. Ruskin, Chicago, Ill. Wash-room fixture. No. 1,426,046; Aug. 15.
- Cohen, James, et al. (See Brown, John L., assignor.)
- Cohen, Louis, Washington, D. C. Radio receiving system. No. 1,406,442; Feb. 14.
- Cohen, Louis, Washington, D. C. Cable system. No. 1,414,179; Apr. 25.
- Cohen, Louis, Washington, D. C. Electrical signaling. No. 1,439,947; Dec. 26.
- Cohen, Morris, New Orleans, La. Tag attachment for package closures. No. 1,405,289; Jan. 31.
- Cohen, Morris, Chicago, Ill. Mallet. No. 1,419,615; June 13.
- Cohen, Morris, New Orleans, La. Parcel-post mailing or C. O. D. express attachment. No. 1,431,875; Oct. 10.
- Cohen, Morris J. (See Loeffler, G., and Cohen.)
- Cohen, Philip, Elizabeth, N. J. Hand bag. No. 1,416,590; May 23.
- Cohen, Solomon. (See Shirk, A. J., and Cohen.)
- Cohen, Stanley A., deceased, by A. H. Cohen, executrix, New York, assignor to The New York Consolidated Card Company, Long Island City, N. Y. Plating machine. No. 1,421,912; July 4.
- Cohen, William, Bayonne, N. J. Student's bookholder. No. 1,404,093; Jan. 17.
- Cohen, William, Bayonne, N. J. Gasoline soldering iron. No. 1,422,740; July 11.
- Cohn, Albert. (See Debs, Louis, H., assignor.)
- Cohn, Alexander B., New York, N. Y. Driving mechanism for sewing machines. No. 1,406,933; Feb. 14.
- Cohn, Alfred, Milwaukee, Wis. Knitted cap. No. 1,431,287; Oct. 10.
- Cohn, Benno, assignor to Ferdinand Gutmann & Co., New York, N. Y. Box. No. 1,416,451; May 16.
- Cohn, Edward, New York, N. Y. Resilient wheel. No. 1,431,874; Oct. 10.
- Cohn-Hall-Marx Company. (See Domber, Joseph, assignor.)
- Cohn, Henry J., Richmond, Va. Antiskid device. No. 1,437,093; Nov. 28.
- Cohn, Max. (See Briconnier, Zepher J., assignor.)
- Cohn & Rosenberger, Inc. (See Marcher, Royal, assignor.)
- Cohon, Benjamin J., Westwood, N. J., assignor to United Cigar Stores Company of America, New York, N. Y. Advertising device. No. 1,414,113; Apr. 25.
- Cohon, Benjamin J., Westwood, N. J., and L. Moskowitz, Brooklyn, N. Y. Lock. No. 1,439,229; Dec. 19.
- Cohrs, Henry J., Jamaica, N. Y. Tire protector. No. 1,429,212; Sept. 12.
- Coin Controlled Lock Company. (See King, Roy D., assignor.)
- Coin Sorting and Counting Company. (See Doldt, John E., assignor.)
- Colardeau, Emmanuel L. P., assignor to H. Crochat, Paris, France. Electrical driving means. No. 1,416,611; May 16.
- Colardeau, Emmanuel L. P., assignor to the Society Etablissements Henry Crochat, Paris, France. Electric motor. No. 1,416,612; May 16.
- Colardeau, Emmanuel L. P., assignor to the Society Etablissements Henry Crochat, Paris, France. Train of vehicles. No. 1,416,613; May 16.
- Colavita, Samuel S., Philadelphia, Pa. Door lock. No. 1,414,862; May 2.
- Colay, George, Salt Lake City, Utah. Folding cot. No. 1,413,901; Apr. 25.
- Colban, Axel. (See Simensen, O., and Colban.)
- Colbentson, Oliver S., Toronto, Ontario, Canada. Chin rest for violins. No. 1,435,280; Nov. 14.
- Colbourne, George, Pittsburgh, Pa. Automobile protection device. No. 1,432,535; Oct. 17.
- Colburn, Ernest A. (See Colburn, Herbert C. and E. A.)
- Colburn Flotation & Engineering Company, The. (See Colburn, Herbert C. and E. A., assignors.)
- Colburn, Glen I., Geneva, N. Y. Nursery label. No. 1,421,674; July 4.
- Colburn, Herbert C. and E. A., assignors to The Colburn Flotation & Engineering Company, Denver, Colo. Apparatus for the separation of ores by flotation. No. 1,415,314; May 9.
- Colburn Machine Tool Company, The. (See Clarke, Frederick F., assignor.)
- Colby, Frank W., Chicago, Ill., assignor to The Kansas City Spiral Pipe Company. Apparatus for manufacturing pipe. No. 1,422,834; July 18.
- Colby, Henry H., Tailula, Ill. Subsoil attachment for plows. No. 1,422,418; July 11.
- Colby, Melvin F., Claremont, N. H. Reamer. No. 1,409,673; Mar. 14.
- Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. No. 1,412,511; Apr. 11.
- Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. No. 1,412,512; Apr. 11.
- Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric heating device. No. 1,415,993; May 16.
- Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Soldering pot and soldering iron. No. 1,425,633; Aug. 15.
- Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric tool-tempering furnace. No. 1,433,700; Oct. 31.
- Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. No. 1,435,211; Nov. 14.
- Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Temperature-controlling system. No. 1,438,635; Dec. 12.
- Colby, Willis H., Detroit, Mich. Blacking stand. No. 1,411,607; Apr. 4.
- Cold Light Manufacturing Company, The. (See Erdle, Reiner W., assignor.)
- Coldwell, Emery V., Kennett, Mo. Wire stretcher, fence straightener, and vehicle jack. No. 1,432,590; Oct. 17.
- Coldwell, Joseph, Newmarket, N. H., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,418,536; June 6.
- Cole, Albert L., Auburndale, assignor of one-fourth to F. J. V. Dakin, Newtonville, and one-fourth to F. A. Tilton, South Braintree, Mass. Shut-off valve for air-brake pipes. No. 1,424,083; July 25.
- Cole, Albert L., Auburndale, assignor to R. C. Berry, Marlboro, Mass. Jar opener. No. 1,432,670; Oct. 17.
- Cole, Amos G., W. H. Foster, Lewistown, and L. H. Fry, Yeagertown, Pa. Spring fitting and quenching machine. No. 1,425,238; Aug. 8.
- Cole, Arthur D. (See Geiger, David F., assignor.)
- Cole, Arthur D., Minneapolis, Minn. Combination tongue and seat support for tractors. No. 1,416,171; May 16.
- Cole, Arthur D., and D. F. Geiger, Minneapolis, Minn. Loading attachment for tractors. No. 1,439,948; Dec. 26.
- Cole, Charles S., Newtown, Conn. Meter indicator. No. 1,436,381; Nov. 21.
- Cole, Charles S., Newtown, Conn. Meter indicator. No. 1,436,382; Nov. 21.
- Cole, Charles W., Rochester, N. Y. Screw holder for screw drivers. No. 1,433,341; Oct. 24.
- Cole, Chester D., and W. J. Burt, Haverhill, Mass. Adjustable hook for antiskid chains. No. 1,420,816; June 27.
- Cole, Clary W., Modesto, Calif. Radiator construction. No. 1,407,929; Feb. 28.
- Cole, Clifford E., assignor to L. L. Cole, Birmingham, Ala. Water heater for gas stoves. No. 1,415,527; May 9.
- Cole, Don, and C. J. Gustafson, assignors to Stromberg Motor Devices Company, Chicago, Ill. Carburetor. No. 1,435,151; Nov. 14.
- Cole, Edward J., Peekskill, N. Y. Nut lock. No. 1,438,097; Dec. 5.
- Cole, Edward P., Chicago, Ill. Means for counterbalancing oven doors. No. 1,405,290; Jan. 31.
- Cole, Edward P., assignor to Cole Manufacturing Company, Chicago, Ill. Safety lock for oven burners. No. 1,405,186; Jan. 31.
- Cole, Edward P., assignor to Cole Manufacturing Company, Chicago, Ill. Furnace. No. 1,405,187; Jan. 31.
- Cole, Francis J., Schenectady, N. Y. Vestibule for locomotives and tenders. No. 1,414,459; May 2.
- Cole, Frank G., Haverhill, Mass. Carpenter's square and bevel. No. 1,408,800; Mar. 7.
- Cole, Glaudel, Poughkeepsie, N. Y. Clothesline adjuster. No. 1,424,084; July 25.
- Cole, Guernsey H., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transformer. No. 1,433,701; Oct. 31.
- Cole, Hugh A., assignor to Cole Manufacturing Company, Chicago, Ill. Furnace. No. 1,402,743; Jan. 10.
- Cole, Hugh J. (See Mineart, C., and Cole.)
- Cole, John, St. Louis, Mo. Hoop guide. No. 1,427,070; Aug. 22.
- Cole, John A., and L. J. Shorter, Coventry, England. Piston. No. 1,424,002; July 25.
- Cole, John W., and A. E. Johnson, St. Francis, Kans. Automobile repair stand. No. 1,424,190; Aug. 1.
- Cole, Lee B., Cleveland, Ohio. Holder bracket. No. 1,439,067; Dec. 19.
- Cole, Linka L. (See Cole, Clifford E., assignor.)
- Cole, Lowell D., Painted Post, N. Y. Fencepost. No. 1,408,723; Mar. 7.
- Cole, Malcolm, Chicago, Ill. Display sign. No. 1,429,408; Sept. 19.

Alphabetical list of patentees—Continued.

- Cole Manufacturing Company. (See Cole, Edward P., assignor.)
- Cole Manufacturing Company. (See Cole, Hugh A., assignor.)
- Cole, Raymond J., Bradford, Pa. Pumping head for wells. No. 1,435,892; Nov. 14.
- Cole, Richard E., Columbus, Ohio. Container. No. 1,411,565; Apr. 4.
- Cole, Robert C., assignor to The Johns-Pratt Company, Hartford, Conn. Electric safety fuse. No. 1,407,785; Feb. 28.
- Cole, Warren W., Portland, Me. Air deflector for automobiles. No. 1,418,430; June 6.
- Coleatti, Carlo, Milan, Italy. Fire grate. No. 1,440,135; Dec. 26.
- Colebrook, William, Durban, Natal, South Africa. Water heater. No. 1,419,225; June 13.
- Coleman, Alonzo W., Pittsburgh, Pa. Directionometer. No. 1,415,147; May 9.
- Coleman, Aloysius J., New York, N. Y. Lead pencil. No. 1,440,058; Dec. 26.
- Coleman, Arthur B., Gosnells, near Perth, Australia. Carpenter's hammer. No. 1,425,369; Aug. 8.
- Coleman, Edward C., Hammond, La. Wrench. No. 1,415,867; May 16.
- Coleman, Edwin B., Springfield, Mass. Wind deflector for automobiles. No. 1,433,260; Oct. 24.
- Coleman, George B., assignor to Majik Electric Appliance Company, San Francisco, Calif. Electric motor. No. 1,438,361; Dec. 12.
- Coleman, George D., deceased, Buffalo, N. Y., by N. S. Coleman, executrix, Revere, Mass. Antifouling composition. No. 1,421,914; July 4.
- Coleman, James M., Montreal, Quebec, Canada. Refrigerator car. No. 1,402,571; Jan. 3.
- Coleman, James M., and K. F. Nystrom, Montreal, Quebec, Canada. Roof brace for box cars. No. 1,438,298; Dec. 12.
- Coleman, John P., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signal mechanism. No. 1,405,494; Feb. 7.
- Coleman, Nellie S., executrix. (See Coleman, George D.)
- Coleman, P. George. (See Saxton, Thomas G., assignor.)
- Coleman, Paul G. (See Saxton, Thomas G., assignor.)
- Coleman, Robert L. (See Vinson, James G., assignor.)
- Coleman, Thomas E., assignor to Madison-Kipp Corporation, Madison, Wis. Lubricator. No. 1,429,191; Sept. 12.
- Coleman, Walter M., Baltimore, Md. Toy. No. 1,435,585; Nov. 14.
- Coleman, Walter P., Atlanta, Ga. Razor. No. 1,404,686; Jan. 24.
- Coleman, Walter P., Atlanta, Ga. Safety-razor guard. No. 1,405,759; Feb. 7.
- Coleman, William C., Wichita, Kans. Stove and burner therefor. No. 1,439,466; Dec. 19.
- Coleman, William O., Indianapolis, Ind. Lock. No. 1,423,397; July 18.
- Coleman, William R., Birmingham, Ala., assignor to Aniston Electric Steel Corporation. Car-dumping apparatus. No. 1,428,005; Sept. 5.
- Colen, Samuel H., West Conshohocken, Pa. Puzzle. No. 1,438,746; Dec. 12.
- Coles, Henry A., Atlanta, Ga. Garment supporter. No. 1,404,094; Jan. 17.
- Coletta, Frances, Wilmington, Del. Automobile bumper and wheel fender. No. 1,407,637; Feb. 21.
- Coley, Albert, and A. W. Marler, Sapulpa, Okla. Advertisement distributor. No. 1,417,500; May 30.
- Coley, Henry E., Temple, and D. H. Dickson, Maida Vale, London, assignors to The G. B. Development Syndicate Limited, London, England. Gas burner. No. 1,436,383; Nov. 21.
- Colgan, John P., assignor of one-fourth to J. N. Stinson and one-fourth to J. D. Blalock, Waycross, Ga. Tire tool. No. 1,434,648; Nov. 7.
- Colgate, Arthur E., New York, N. Y. Thermostatic apparatus. No. 1,412,773; Apr. 11.
- Collamer, Eugene E. and G. R. Hilton, N. Y., assignors of one-third to J. B. Frey Company, Inc., Rochester, N. Y. Container agitating device. No. 1,412,774; Apr. 11.
- Collamer, George R. (See Collamer, Eugene E. and G. R.)
- Collard, Alexandre, assignor to The Societe Manufacture Metallurgique de Courmou, Courmou, France. Handle for saucepans and other vessels. No. 1,403,232; Jan. 10.
- Collard, Charles, Enghien-les-Bains, France. Treatment of ossein for the production of gelatin. No. 1,431,217; Oct. 10.
- Collatz, William, Chicago, Ill. Excavating machine. No. 1,412,922; Apr. 18.
- Collette, Clarence C., Amsterdam, N. Y. Securing washers to bolts, rivets, and the like. No. 1,435,586; Nov. 14.
- Colley, Harry A., assignor to Frolaset Corset Company, Detroit, Mich. Corset and forming same. No. 1,414,114; Apr. 25.
- Colley, Walter W., London, England. Machine for craping paper. No. 1,411,656; Apr. 4.
- Colliau, Victor, Detroit, Mich. Machine for rounding the ends of gear teeth. No. 1,410,657; Mar. 28.
- Collier, Arthur R., New Southgate, England. Locking device. No. 1,420,910; June 27.
- Collier, Barron G., Inc. (See Johnston, Richard A., assignor.)
- Collier, Durward C., and F. M. Murphy, assignors to Collier Mills, Inc., Barnesville, Ga. Garment. No. 1,404,273; Jan. 24.
- Collier, Guy B., Kinderhook, N. Y. Apparatus for the production of explosive mixtures. No. 1,436,480; Nov. 21.
- Collier, Joseph W., assignor to Arcadia Trailer Corporation, Newark, N. Y. Vehicle. No. 1,422,034; July 4.
- Collier Mills, Inc. (See Collier, D. C., and Murphy, assignors.)
- Collier, Perry, Conneaut, Ohio. Scaffold trestle. No. 1,439,068; Dec. 19.
- Collier, Shade B., Orlando, Fla. Grease retainer. No. 1,422,741; July 11.
- Collier, William H., Brentwood, Tenn. Carburetor. No. 1,417,501; May 30.
- Collier, William H., Sandusky, Ohio. Carburetor. No. 1,426,714; Aug. 22.
- Collier, William H., Painesville, Ohio. Veneer-cutting machine. No. 1,438,810; Dec. 12.
- Collier, William R. (See Mullins, E. L., and Collier.)
- Collignon, William C., Chicago, Ill. Pneumatic action. No. 1,403,591; Jan. 17.
- Collin, George W., Bridgeport, Conn. Steam trap. No. 1,410,656; Mar. 28.
- Collin, George W., Bridgeport, Conn. Thermostatic control device for heating chambers. No. 1,410,658; Mar. 28.
- Collin, George W., Bridgeport, Conn. Self-cleaning strainer for fluids. No. 1,438,983; Dec. 19.
- Colling, George M., Carrington, N. Dak. Combined tow and push bar. No. 1,422,928; July 18.
- Colling, Peter H., Albany, N. Y. Coal hod. No. 1,413,518; Apr. 18.
- Collings, Jesse, Richmond, England. Seal for use in packing or for other like purposes. No. 1,410,998; Mar. 28.
- Collings, William A., Kansas City, Mo. Coating composition and producing the same. No. 1,428,272; Sept. 5.
- Collings, William A., Kansas City, Mo. Paint vehicle. No. 1,428,273; Sept. 5.
- Collingwood, Sherman R., Wichita, Kans. Rolling radiator shutter. No. 1,421,174; June 27.
- Collins, A. M., Manufacturing Company. (See Gillbee, Manuel A. T., assignor.)
- Collins, Albert F., Minneapolis, Minn. Bank check. No. 1,407,256; Feb. 21.
- Collins, Albert F., Minneapolis, Minn. Perforating device for protecting checks and like instruments. No. 1,407,257; Feb. 21.
- Collins, Benjamin J., Supply, Okla. Calculating machine. No. 1,402,572; Jan. 3.
- Collins, Benjamin W., Swarthmore, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Filtering. No. 1,413,457; Apr. 18.
- Collins, C. E. et al. (See Blades, Alvin C., assignor.)
- Collins, Cap B. (See Hasselquist, Hugo S., assignor.)
- Collins, Cap B., Oak Park, assignor to Collins Safety Razors, Chicago, Ill. Rotary razor sharpener. No. 1,426,152; Aug. 15.
- Collins, Charles W., Seattle, Wash. Clothes-drying machine. No. 1,427,580; Aug. 29.
- Collins, Cornelius, Burlingame, Calif. Fastening element. No. 1,418,699; June 6.
- Collins, Daniel E., Baltimore, Md. Refractory composition. No. 1,411,842; Apr. 4.
- Collins, Donley S., Cedar Rapids, Iowa. Self-measuring visible liquid pump. No. 1,418,129; May 30.
- Collins, Edgar F., Schenectady, N. Y., assignor to General Electric Company. Heat-treating furnace. No. 1,414,180; Apr. 25.
- Collins, Edgar F., Schenectady, N. Y., assignor to General Electric Company. Electric furnace. No. 1,432,442; Oct. 17.
- Collins, Emery F., Huntington, W. Va. Signal. No. 1,412,451; Apr. 11.
- Collins, Francis, and D. D. MacCormack, Boston, Mass. Shingling gauge. No. 1,405,760; Feb. 7.
- Collins, Frank D., Washington, D. C. Illuminating apparatus. No. 1,412,675; Apr. 11.
- Collins, George A. (See Smith, A. W., and Collins.)
- Collins, George M., Sprague, Wash. Vehicle tire. No. 1,415,994; May 16.
- Collins, Glenville A., Seattle, Wash., assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Dock crane. No. 1,436,861; Nov. 28.
- Collins, Horace B., Oklahoma, Okla. Knockdown box, crate, and like construction. No. 1,403,233; Jan. 10.
- Collins, James, Lancaster, Pa. Parcel and package elevator or carrier. No. 1,422,673; July 11.
- Collins, James T., Tulsa, Okla. Door securer. No. 1,409,152; Mar. 14.
- Collins, James W., Somerville, Mass. Hayfork. No. 1,408,342; Feb. 28.
- Collins, Jerome J., Winsford, England. Purification of tin. No. 1,414,257; Apr. 25.
- Collins, Jerome J., Southport, England. Winning of tin. No. 1,414,258; Apr. 25.
- Collins, Jerome J., Southport, England. Purification of tin. No. 1,414,259; Apr. 25.
- Collins, John F., Philadelphia, Pa. Automobile starting device. No. 1,418,068; May 30.
- Collins, John W. (See Holliman, R. L., and Collins.)
- Collins, Joseph B., Detroit, Mich. Tire carrier. No. 1,419,958; June 20.

Alphabetical list of patentees—Continued.

- Collins, Joseph W. (See Jerrel, Floyd S., assignor.)
 Collins, Josiah H., Beggs, Okla. Railway rail fastener. No. 1,411,163; Mar. 28.
 Collins, Lester W., St. Paul, Minn. Refrigerator car. No. 1,421,913; July 4.
 Collins, Michael, Fort Worth, Tex. Excavator and scraper. No. 1,416,268; May 16.
 Collins, Michael J., New York, N. Y. Stripping comb. No. 1,407,638; Feb. 21.
 Collins, Norman H., Forestville, Md., assignor of one-half to A. B. Baker, Washington, D. C. Wrench. No. 1,408,444; Mar. 7.
 Collins, Paul A. (See Myers, A. H., and Collins.)
 Collins, Richard H., assignor to General Motors Corporation, Detroit, Mich. Tool-storing device for automobiles. No. 1,434,350; Oct. 31.
 Collins Rotary Safety Razor Company. (See Hasselquist, Hugo S., assignor.)
 Collins Safety Razors. (See Collins, Cap B., assignor.)
 Collins, Thomas, assignor to The American Separator Company, Bainbridge, N. Y. Centrifugal liquid separator. No. 1,426,959; Aug. 22.
 Collins, Warren, Fort Worth, Tex. Resilient tire filler. No. 1,402,212; Jan. 3.
 Collins, William E., Houston, Tex. Reg. for cotton and other fibrous material. No. 1,412,167; Apr. 11.
 Collins, William J., Brooklyn, N. Y. Grinding machine. No. 1,418,235; May 30.
 Collins, William R., Denver, Colo. Tunneling-machine. No. 1,404,929; Jan. 31.
 Collinson, George, Bristol, England. Domestic washing machine. No. 1,408,864; Mar. 7.
 Collis Company, The. (See Collis, Harold G., assignor.)
 Collis, Harold G., assignor to The Collis Company, Clinton, Iowa. Poultry coop. No. 1,413,458; Apr. 18.
 Collis, O. D. (See Caps, Arthur W., assignor.)
 Collison, John G., J. W. Wright, H. M. Filbert, Dayton, Ohio, and W. Frank, Miamisburg, Ohio, assignors to The Stemco Engineering Company, Dayton, Ohio. Fluid gauge. No. 1,423,191; July 18.
 Collmer, A. B. (See Pillow, John R., assignor.)
 Collier, Louis G., Upper Montclair, N. J., assignor to The Aeolian Company. Adjustable connection for actuating arms. No. 1,421,408; July 4.
 Colmar Burner Co. (See Blanchard, George N., assignor.)
 Colomb, Henri, Tavannes, Switzerland. Timepiece. No. 1,438,427; Dec. 12.
 Colomb, Henri, Tavannes, Switzerland. Setting for drilled jewel bearings. No. 1,440,059; Dec. 26.
 Colomb, Henry, Tavannes, Switzerland. Means for securing bridges of timekeeping mechanism. No. 1,434,327; Oct. 31.
 Colombelle, Henri, Le Raincy, France. Apparatus for operating window frames or sashes. No. 1,406,154; Feb. 7.
 Colomy, Robert E., Cumberland, Md. Compositing sign. No. 1,433,532; Oct. 31.
 Colonial Stamping Company. (See Schultz, Abraham J., assignor.)
 Colony, John M., Newton, Mass. Making a milk product. No. 1,434,094; Oct. 31.
 Colony, John M., Newton, assignor to Manton-Gaulin Manufacturing Company, South Boston, Mass. Emulsifier. No. 1,434,095; Oct. 31.
 Colorado Vanadium Corporation. (See Thews, Karl B., assignor.)
 Colorco. (See Jones, Charles F., assignor.)
 Colson, Edd L. (See Crosby, R. A., and Colson.)
 Colson, Léon, Paris, France. Apparatus and method for the production of a gaseous mixture of $\text{CH}_4 + \text{H}_2$. No. 1,428,879; Sept. 12.
 Colson, Thomas, Chicago, assignor to C. Dawson, Belvidere, Ill. Cartridge fuse. No. 1,419,226; June 13.
 Colt, Charles R., Washington, D. C. Internal-combustion engine. No. 1,436,574; Nov. 21.
 Colt, Charles R., Washington, D. C. Air-speed indicator. No. 1,436,575; Nov. 21.
 Colt, Samuel S., Orange, N. J. Staging for buildings and other structures. No. 1,423,308; July 18.
 Colt, Samuel S., Orange, N. J. Holding or tying means for molding apparatus. No. 1,424,880; Aug. 8.
 Colt, Thomas C., East Orange, N. J. Apparatus for producing hollow structures of concrete and the like. No. 1,437,960; Dec. 5.
 Columbia Graphophone Manufacturing Company. (See Beadle, G. W., and Kohn, assignors.)
 Columbia Graphophone Manufacturing Company. (See Beadle, George W., assignor.)
 Columbia Graphophone Manufacturing Company. (See de Stubner, Emile, assignor.)
 Columbia Graphophone Manufacturing Company. (See Goldstein, Charles E., assignor.)
 Columbia Graphophone Manufacturing Company. (See Hinckley, F. C., and Scully, assignors.)
 Columbia Graphophone Manufacturing Company. (See Hinckley, Frank C., assignor.)
 Columbia Graphophone Manufacturing Company. (See Kohn, Samuel, assignor.)
 Columbia Graphophone Manufacturing Company. (See Larsen, Louis G., assignor.)
 Columbia Graphophone Manufacturing Company. (See Lyle, M. E., Scully, and Capps, assignors.)
 Columbia Graphophone Manufacturing Company. (See Mattern, David L., assignor.)
 Columbia Graphophone Manufacturing Company. (See Renboldt, John E., assignor.)
 Columbia Graphophone Manufacturing Company. (See Roberts, Theodore C., assignor.)
 Columbia Graphophone Manufacturing Company. (See Scully, John J., assignor.)
 Columbus Dental Manufacturing Company, The. (See Robinson, R. M., and McDonald, assignors.)
 Columbus McKinnon Chain Co., The. (See Dever, John V., assignor.)
 Colven, James M., Yonkers, N. Y., and A. Lowy, Newark, N. J., assignors to New York Engineering Company. Soot blower. No. 1,421,675; July 4.
 Colville, John G. (See Knight, Frederick, assignor.)
 Colvin, Cadet M., assignor to C & C Developing Company, Kansas City, Mo. Compensating device for reaction tubes. No. 1,428,323; Sept. 5.
 Colvin, Charles H., East Orange, N. J., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Magnetic compass. No. 1,431,776; Oct. 10.
 Combination Machine Company. (See Peterson, Jonathan, assignor.)
 Combination Machine Company. (See Thom, James C., assignor.)
 Combo Manufacturing Company. (See Spadafora, Joseph, assignor.)
 Combs, George W., Leavenworth, Kans. Core machine. No. 1,424,341; Aug. 1.
 Combs, John R., Tipton Ford, Mo. Jig for concentrating ores. No. 1,415,428; May 9.
 Combs, Rill K., Marion, Ohio. Refrigerator. No. 1,429,020; Sept. 12.
 Combustion Engineering Corporation. (See Skelly, John S., assignor.)
 Combustion Engineering Corporation. (See Van Brunt, John, assignor.)
 Combustion Specialty Company. (See Manhire, William J., assignor.)
 Comeau, Moses P., and A. A. Fredette, Chicopee Falls, Mass. Combined window-shade bracket and curtain-pole-supporting device. No. 1,412,923; Apr. 18.
 Comer, John J., Chicago, Ill., assignor, by mesne assignments, to C. R. Bennett, Kansas City, Mo. Moisture-proof receiver. No. 1,401,962; Jan. 3.
 Comer, Luther B., Fort Worth, Tex. Milk-sterilizing apparatus. No. 1,432,671; Oct. 17.
 Comezys, E. F. (See Davis, Scott J., assignor.)
 Comingore, Ross C., Sioux Falls, S. Dak. Adjustable card holding. No. 1,412,168; Apr. 11.
 Comings, Darwin, Scranton, Pa. Sanitary breath deflector. No. 1,432,383; Oct. 17.
 Comings, H. Emerson. (See Burchett, Walter J., assignor.)
 Comings, William R., Wimbledon Park, England. Hand embroiderer. No. 1,410,891; Mar. 28.
 Comins, Frank B., Newton, assignor to American Moistening Company, Boston, Mass. Moisture-controlling device. No. 1,410,999; Mar. 28.
 Comiskey, Michael E., Plymouth, Mass. Automobile ornament. No. 1,435,106; Nov. 7.
 Comment, Paul, assignor to Société Fabriques de Produits Chimiques de Thann et de Mulhouse, Mulhouse, Alsace, France. Manufacture of potassium sulphate and hydrochloric acid. No. 1,417,887; May 30.
 Commercial Research Company, The. (See Hibbert, Harold, assignor.)
 Commercial Wireless & Development Company. (See Pridham, E. S., and Jensen, assignors.)
 Committ, Frederick J., London, England. Treating pitch. No. 1,432,742; Oct. 24.
 Commonwealth Edison Company. (See Smith, Peter J., assignor.)
 Commonwealth Shoe & Leather Company. (See Jones, Paul, assignor.)
 Commonwealth Steel Company. (See Howard, Karl S., assignor.)
 Commonwealth Steel Company. (See Pfleger, Harry M., assignor.)
 Commonwealth Steel Company. (See Sheehan, William M., assignor.)
 Commonwealth Steel Company. (See Westlake, Charles T., assignor.)
 Compagnie des Forges et Acieries de la Marine et d'Homecourt. (See Le Brun, Angelo P., assignor.)
 Compagnie des Forges et Acieries de la Marine et d'Homecourt. (See Rimailho, Emile, assignor.)
 Compagnie Generale D'Electricite. (See L'Evesque, Paul J., assignor.)
 Compagnie Internationale De Freinage (Système Luyers) Societe Anonyme. (See Chandeson, Alfred H., assignor.)
 Compagnie Manufacturiers Marcalex. (See Linotte, Mathieu, assignor.)
 Composition Machinery Corporation. (See Burroughs, Charles F., assignor.)
 Compression-Loss Gage Company of Arizona. (See White, Morris C., assignor.)
 Compression Tube & Tire Co. (See Lobel, Herman, assignor.)
 Compton, Andrew J., Trenton, N. J. Vehicle spring lubricator. No. 1,427,071; Aug. 22.
 Compton, Glenn A., Minneapolis, assignor to Northfield Iron Company, Northfield, Minn. Collapsible arch form. No. 1,424,342; Aug. 1.

- Compton, Jerry A. (See Price, Albert O., assignor.)
 Compton, John T., Seabrook, Tex. Rat trap. No. 1,435,806; Nov. 14.
 Computing Scale Company, The. (See Freed, Edward G., assignor.)
 Computing Scale Company, The. (See Locke, E. B., and Murray, assignors.)
 Computing-Tabulating-Recording Company. (See Odell, George W., assignor.)
 Comstock, Clark S., Sr., East Orange, N. J. Slide. No. 1,404,741; Jan. 31.
 Comstock, Clark S., Sr., East Orange, N. J. Garment buckle. No. 1,407,733; Feb. 28.
 Comstock, Daniel F., Brookline, assignor to Kalmus, Comstock & Wescott, Incorporated, Boston, Mass. Photometer. No. 1,437,399; Dec. 5.
 Comstock, Jesse F., Wilkes-Barre, Pa. Machine for forming armature coils. No. 1,437,887; Dec. 5.
 Conant, Florence L., Yonkers, N. Y. Ornamental building trimmings. No. 1,426,277; Aug. 15.
 Conant, Franklin N., Newburyport, Mass., assignor, by mesne assignments, to The Chase-Shawmut Company. Renewable fuse. No. 1,422,419; July 11.
 Conant, Franklin N., Newburyport, Mass., assignor, by mesne assignments, to The Chase-Shawmut Company. Renewable fuse. No. 1,422,420; July 11.
 Conant, Franklin N., Newburyport, Mass., assignor, by mesne assignments, to The Chase-Shawmut Company. Electric fuse. No. 1,439,870; Dec. 26.
 Conaway, Charles W., et al. (See Musebeck, George E., assignor.)
 Concannon, William F., Bridgeport, Conn. Making scissors, shears, tweezers, and the like. No. 1,407,127; Feb. 21.
 Concentrators Limited. (See Ondra, Frank, assignor.)
 Concrete Piling Company. (See Bignell, Edward, assignor.)
 Conde, Frederic, et al. (See Walter, Frederick P., assignor.)
 Condé, Max, Berlin-Wilmersdorf, Germany. Race game. No. 1,406,155; Feb. 7.
 Condensite Company of America. (See Kendall, Donald S., assignor.)
 Condit, Ezekiel C., Silverton, Colo. Mine ventilator. No. 1,404,742; Jan. 31.
 Condit, Sears B. (See Burnham, George A., assignor.)
 Condit, Sears B. (See Chase, Philip H., assignor.)
 Condit, Sears B., Jr. (See Burnham, George A., assignor.)
 Condit, Sears B., Jr. (See Cameron, Gordon, assignor.)
 Condeley, Edward J., Auburn, N. Y. Fishing rod. No. 1,409,282; Mar. 14.
 Condon Bros., Seedsmen. (See Condon, John R., assignor.)
 Condon, Ernest L., Medway, assignor to United Soda Fountain Company, Boston, Mass. Ice-chest construction. No. 1,413,576; Apr. 25.
 Condon, Ernest L., Medway, assignor to United Soda Fountain Company, Boston, Mass. Detachable-cover construction. No. 1,415,148; May 9.
 Condon, Ernest L., Medway, assignor to United Soda Fountain Company, Boston, Mass. Detachable-cover construction. No. 1,415,149; May 9.
 Condon, John R., Rockford, Ill., assignor to Condon Bros., Seedsmen, Rockford, Ill. Measuring and dispensing device. No. 1,411,000; Mar. 28.
 Condon, Joseph P., et al. (See Morton, William C., assignor.)
 Condon, Robert, Brooklyn, N. Y. Brush. No. 1,413,900; Apr. 25.
 Condy, Thomas J., Ayer, Mass. Swimming device. No. 1,411,909; Apr. 25.
 Condy, Alice, Ashfield, near Sydney, assignor to J. E. Boiger, Sydney, New South Wales, Australia. Kitchen utensil for broiling and toasting food. No. 1,422,835; July 18.
 Cone, Charles S., La Crosse, Wis. Stamp-vending machine. No. 1,407,639; Feb. 21.
 Cone Company of America. (See Lewison, Lewis, assignor.) (Reissue.)
 Cone, Lee E. H., Syracuse, N. Y., assignor to Dow Chemical Company, Midland, Mich. Making phenylglycine bodies. No. 1,419,720; June 13.
 Cone, Milton, Richmond, Va., assignor to The Spotless Co., Inc. Chemical closet. No. 1,412,553; Apr. 11.
 Cone, Ralph R., assignor to L. Will, Syracuse, N. Y. Electric perforating appliance. No. 1,425,079; Aug. 8.
 Cone, Thomas H. S., Boundbrook, N. J. Signal device. No. 1,434,096; Oct. 31.
 Coney, Rollin C. (See Funk, Hugo A., assignor.)
 Coney, William T., assignor to The American Hardware Corporation, New Britain, Conn. Cylinder lock. No. 1,434,483; Nov. 7.
 Congdon, Charles H., East Stroudsburg, Pa. Pitch pipe. No. 1,437,747; Dec. 5.
 Congdon, Ernest W., Jr., Glen Ridge, N. J. Self-righting post. No. 1,425,945; Aug. 15.
 Conger, Charles W., assignor of one-third to F. R. Blakeley, Portland, Oreg. Electric lantern. (Reissue.) No. 15,317; Mar. 28.
 Conger, Herbert L., Los Angeles, Calif. Fastening device for shoes. No. 1,408,563; Mar. 7.
 Conger, Thomas M., Elyria, Ohio. Resilient heel. No. 1,440,060; Dec. 26.
 Congoleum Company. (See Jackson, Ralph G., assignor.)
 Conill, Fernan O., Port Jefferson, N. Y. Gun. No. 1,405,291; Jan. 31.
 Conkey, Fred W. (See Jacobs, Charles F., assignor.)
 Conklin, Roscoe A., Chicago, Ill. Plant box. No. 1,405,568; Feb. 7.
 Conklin, Walter L. (See Miller, A. W., and Conklin.)
 Conkling, Cloud C. (See Boardman, C. S., and Conkling.)
 Conkling, Lucile C., executrix. (See Boardman, C. S., and Conkling.)
 Conley, Edwin J., New York, N. Y. Sealed metal receptacle. No. 1,432,968; Oct. 24.
 Conley, Edwin J., New York, N. Y. Sealing foil and foil packages. No. 1,433,800; Oct. 31.
 Conley, Edwin J., New York, N. Y. Sealed foil package and forming the same. No. 1,433,801; Oct. 31.
 Conley, J. M., Company. (See McCauley, Robert E., assignor.)
 Conley, John M., assignor to D. R. Throop, Stockton, Calif. Scraper. No. 1,438,362; Dec. 12.
 Conley, Joseph M., Detroit, Mich., assignor of one-half to A. M. Bird, Megantic, Canada. Signal-flag support. No. 1,435,807; Nov. 14.
 Conley, Victor H., Elizabeth, N. J. Sounding device. No. 1,405,292; Jan. 31.
 Conlon, Barbara, administratrix. (See Conlon, Charles.)
 Conlon, Charles, deceased, Springfield, N. Y., B. Conlon, administratrix. Mower attachment for agricultural implements. No. 1,411,001; Mar. 28.
 Conlon Electric Washer Co. (See Anderson, C. F., and Knapp, assignors.)
 Conlon, Walter J. (See Diener, John A., assignor.)
 Conn, Joseph C., Boonton, N. J., assignor to Clipper Belt Lacer Company, Grand Rapids, Mich. Apparatus for attaching belt hooks to belts and the like. No. 1,436,306; Nov. 21.
 Conn, Joseph C., Boonton, N. J. Apparatus for sharpening cutting implements. No. 1,439,230; Dec. 19.
 Connecticut Electric Manufacturing Company, The. (See Both, Tonjes A., assignor.)
 Connecticut Electric Manufacturing Company, The. (See Trumbull, Alexander H., assignor.)
 Connecticut Telephone & Electric Company, The. (See Donle, Harold P., assignor.)
 Connell, Edward F. and J. F., Florence, Mass. Stop motion. No. 1,423,398; July 18.
 Connell, John F. (See Connell, Edward F. and J. F.)
 Connell, Joseph P., Jersey City, N. J., assignor to Manhattan Briar Pipe Company, Brooklyn, N. Y. Label. No. 1,406,541; Feb. 14.
 Connell, Mary, et al. (See Tracy, Laurence J., assignor.)
 Connolly, Alonzo, Topeka, Kans. Sanitary transmitter device for telephones and dictaphones. No. 1,402,213; Jan. 3.
 Connolly, Alonzo, Topeka, Kans. Stove damper. No. 1,402,214; Jan. 3.
 Connolly, Henry P. (See Kearns, W., and Connolly.)
 Connolly, John F., Springfield, Ill. Oil dispenser. No. 1,403,670; Jan. 17.
 Connolly, William C., Baltimore, Md. Valve. No. 1,438,747; Dec. 12.
 Connolly, Charles B., Scotia, N. Y., assignor to General Electric Company. Control system. No. 1,424,003; July 25.
 Conner, Charles E., Auburn Me. assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting machine. No. 1,415,921; May 16.
 Conner, Edward A., Bridgeport, Conn., assignor to American Chain Company, Inc. Central connecting member for horse overshoes. No. 1,416,333; May 16.
 Conner, Lawrence E., Jackson, Mich. Clutch mechanism. No. 1,415,150; May 9.
 Conner Magneto & Ignition, Limited. (See Puckette, Charles C., assignor.)
 Conner, Merritt S., Adelphi, Salford, England. Telephone receiver. No. 1,404,584; Jan. 24.
 Conner, Samuel D., La Fayette, Ind. Envelope. No. 1,434,097; Oct. 31.
 Conners, Walter W., Elizabeth, N. J. Method and apparatus for indicating the geographical location or movement of bodies. No. 1,432,384; Oct. 17.
 Conners, Walter W., Elizabeth, N. J. Liquid-level-condition warning system. No. 1,432,385; Oct. 17.
 Conners, Walter W., Elizabeth, N. J. Method and apparatus for determining the actual location and actual movement of bodies. No. 1,433,070; Oct. 24.
 Conners, Walter W., Elizabeth, N. J. Internal-combustion engine. No. 1,436,434; Nov. 21.
 Conners, Walter W., Elizabeth, N. J. Method and apparatus for indicating the geographical location or movement of bodies. No. 1,437,400; Dec. 5.
 Connersville Blower Co., The. (See Houghton, Carl R., assignor.)
 Connery, James W., Kewanee, Ill. Combined mail box and sign holder. No. 1,435,379; Nov. 14.
 Connery, William M., Philadelphia, Pa. Flue and flue section. No. 1,416,394; May 16.
 Connolly, John M., Des Moines, Iowa. Automobile license-card holder. No. 1,440,061; Dec. 26.
 Connolly, Patrick, Brooklyn, N. Y. Fitting for tubs and sinks. No. 1,416,172; May 16.
 Connolly, Thomas J., Cedar Rapids, Iowa. Lawn-mower sharpener. No. 1,426,548; Aug. 22.
 Connolly, William F., Farley, Iowa. Gate hinge. No. 1,437,722; Dec. 5.

Alphabetical list of patentees—Continued.

- Connor, David M., Anniston, Ala. Dishwashing apparatus. No. 1,435,212; Nov. 14.
- Connor, Kirke W., Detroit, Mich. Method and apparatus for mixing colors. No. 1,403,485; Jan. 17.
- Connor, Mary, Holyoke, Mass. Child's harness. No. 1,431,570; Oct. 10.
- Connor, Walter, Windsor, Ontario, Canada. Lifting jack. No. 1,413,655; Apr. 25.
- Connors, Arthur H., Mullan, Idaho. Ore separator. No. 1,407,258; Feb. 21.
- Connors, John F. (See Courtney, T. J., Quinn, and Connors.)
- Conoid Candy Machine Company. (See Brigham, Nelson E., assignor.)
- Conover, Courtney, Philadelphia, Pa., and H. D. Gibbs, San Francisco, Calif.; said Conover assignor to J. M. Selden, Pittsburgh, Pa. Manufacture of anthraquinone. No. 1,417,367; May 23.
- Conow, Leonard, Corte Madera, assignor to J. J. Mazza, San Francisco, Calif. Oil burner. No. 1,426,361; Aug. 22.
- Conrad, Charles T., et al. (See McDonald, Angus, assignor.)
- Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Starting mechanism for internal-combustion engines. No. 1,413,829; Apr. 25.
- Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Distributor for ignition apparatus. No. 1,417,717; May 30.
- Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switching mechanism. No. 1,430,536; Oct. 3.
- Conrad, Frederick A. and J. L., Los Angeles, Calif. Cap gauge for pneumatic tires. No. 1,422,256; July 11.
- Courad, George B. (See Frantz, Albert D., assignor.)
- Courad, Harry C., et al. (See Kennedy, James W., assignor.)
- Conrad, Harry E., Newark, N. J. Section insulator and switch. No. 1,437,961; Dec. 5.
- Conrad, Henry S., trustee. (See Lundquist, Frank A., assignor.)
- Conrad, James L. (See Conrad, Frederick A. and J. L.)
- Conrad, K. S., Company, The. (See Harris, William A., assignor.)
- Conrad, Kenneth S. (See Harris, William A., assignor.)
- Conrader, Rudolph, Erie, Pa. Pumping apparatus. No. 1,421,409; July 4.
- Conrader, Rudolph, Erie, Pa. Method of and apparatus for operating oil wells. No. 1,431,777; Oct. 10.
- Conrader, Rudolph, Erie, Pa. Method of and apparatus for operating oil wells. No. 1,431,778; Oct. 10.
- Conrader, Rudolph, Erie, Pa. Method of treating oil wells and apparatus therefor. No. 1,431,779; Oct. 10.
- Conrath, George T., Bowling Green, Ohio. Stopcock. No. 1,416,173; May 16.
- Conroy, Frank M., Caldwell, Idaho. Mold for use in production of fenceposts. No. 1,431,635; Oct. 10.
- Conroy, Peter J., Scranton, Pa. Rail-securing instrumentality. No. 1,418,286; June 6.
- Consolidated American Fastener Companies, Inc. (See Nelson, William, assignor.)
- Consolidated American Fastener Companies. (See Normand, Henry S., assignor.)
- Consolidated American Fastener Companies, Inc. (See Smith, O. L., and Normand, assignors.)
- Constable, Arthur H., Penshurst, Kent, England. Seed-sowing machine. No. 1,436,946; Nov. 28.
- Consolidated Car-Heating Company. (See Griffin, Percy M., assignor.)
- Consolidated Car-Heating Company. (See Hynes Lee P., assignor.)
- Consolidated Car Heating Company. (See Oakley, George, assignor.)
- Consolidated Iron-Steel Manufacturing Company, The. (See Lehman, Joseph, assignor.)
- Consolidated Tool Works. (See Thompson, W., and Roy, assignors.)
- Constable, John P., assignor to New Jersey Patent Company, West Orange, N. J. Driving connection. No. 1,425,177; Aug. 8.
- Constable, Leopold C. (See Hutton, Lionel A. B., assignor.)
- Constantine, Alphonse A., Jeffersonville, Ind., assignor to American Car and Foundry Company, New York, N. Y. Railway trapdoor lock mechanism. No. 1,432,233; Oct. 17.
- Constantine, Frederick W., St. Annes-on-Sea, and T. G. Kay, Bolton, England. Drag device for spinning machines. No. 1,414,688; May 2.
- Constantinesco, George, Weybridge, England. Sound-producing instrument operated by internal-combustion engines. No. 1,409,081; Mar. 7.
- Constantinesco, George, Weybridge, England. Means for lubricating internal-combustion engines. No. 1,428,682; Sept. 12.
- Constantinesco, George, Weybridge, England. Sounding device actuated from internal-combustion engines. No. 1,432,743; Oct. 24.
- Constantinesco, George, Weybridge, assignor to W. Had-don, London, England. Alternating liquid current motor. No. 1,432,672; Oct. 17.
- Constantinesco, George, Weybridge, assignor to W. Had-don, London, England. Synchronous alternating liquid current motor. No. 1,432,673; Oct. 17.
- Construction Appliance Co., The. (See Hallett, Fred N., assignor.)
- Contant, William A. (See Pease, Walter M., assignor.)
- Conte, Attilio, Buenos Aires, Argentina. Combined fountain pen and pencil holder. No. 1,404,012; Jan. 17.
- Conte, Attilio, Buenos Aires, Argentina. Grater. No. 1,415,315; May 9.
- Conter, Michael J., Park Ridge, Ill. Bookmark. No. 1,438,299; Dec. 12.
- Conti, James T. F., assignor to Société Industrielle d'Instruments de Précision, Paris, France. Suspension for balance plates. No. 1,424,239; Aug. 1.
- Conti, Marcelo, Buenos Aires, Argentina. Corn stripping and husking machine. No. 1,410,168; Mar. 21.
- Conti, Marcelo, Buenos Aires, Argentina. Plow. No. 1,425,451; Aug. 8.
- Continental Air Craft & Transportation Company. (See Leinweber, William H., assignor.)
- Continental Axle Company. (See Dondlinger, Eugene J., assignor.)
- Continental Can Company. (See Assmann, Frank A., jr., assignor.)
- Continental Can Company. (See Schaeffer, Millington, assignor.)
- Continental Car Company of America. (See Stebbins, George H., assignor.)
- Continental Engineering Corporation. (See Buck, Wilmer G., assignor.)
- Continental Gas Compressing Corporation. (See Schill, E., and Woidick, assignors.)
- Continental Machinery Company. (See Clump, F. G., and Burrows, assignors.)
- Continental Mills, Inc. (See Lukens, Rinaldo A., assignor.)
- Continental Motors Corporation. (See Olson, Charles W., assignor.)
- Continental Motors Corporation. (See Tobin, Benjamin F., jr., assignor.)
- Continental Salt and Chemical Company. (See Cunningham, C. A., Christensen, and Bartlett, assignors.)
- Continental Transport Company. (See Nilsson, Hjalmar, assignor.)
- Continuous Centrifugals Limited. (See Mauss, Wilhelm, assignor.)
- Continuous Centrifugal Separators Limited. (See Mauss, Wilhelm, assignor.)
- Continuous Cloth Towel Cabinet Co., Inc., of New York. (See Bowman, Wade W., assignor.)
- Continuous Process Coke Company. (See Helmholtz, Arthur W., assignor.)
- Continuous Reaction Company. (See Skelley, H. A., and Smith, assignors.)
- Continuous Reaction Company. (See Skelley, J. M., and Merson, assignors.)
- Converse, Clinton J., Bridgeport, Conn. Milling tool. No. 1,423,192; July 18.
- Converse, Francis B., assignor to The Norwalk Tire and Rubber Company, Norwalk, Conn. Making tire casings. No. 1,420,623; June 27.
- Converse, Newton B., assignor of one-half to G. T. Cameron, San Francisco, Calif. Governor and indicator. No. 1,411,412; Apr. 4.
- Converse, Ray V., Kansas City, Mo. Shock absorber. No. 1,415,799; May 9.
- Convertible Clock Case Company, Inc. (See Simons, Edward E., assignor.)
- Conveyors Corporation of America. (See Griffin, Lorne A., assignor.)
- Conway, Earle E., et al., trustees. (See White, Frank C., assignor.)
- Conway, John J., and E. Koehler, assignors to The Acme Shear Company, Bridgeport, Conn. Coupon scissors. No. 1,436,755; Nov. 28.
- Conway, John W., Hartford, Conn. Automobile step. No. 1,428,006; Sept. 5.
- Conway, Roy D., Chatham, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric regulator. No. 1,438,944; Dec. 19.
- Conway, Roy D., Chatham, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric regulator. No. 1,438,945; Dec. 19.
- Conway, Roy D., Chatham, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric regulator. No. 1,438,946; Dec. 19.
- Conway, Roy D., Chatham, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric regulator. No. 1,438,947; Dec. 19.
- Conway, Wiley W., Humboldt, Ariz. Cotton gin. No. 1,408,343; Feb. 28.
- Conwell, L. R. (See Jackson, Harvey F., assignor.)
- Conwell, Walter L., Montclair, and W. I. Thomson, Newark, N. J. Generator driving. No. 1,439,797; Dec. 26.
- Conzi, Francesco, Genoa, Italy. Guiding and tracing apparatus for vehicles. No. 1,436,237; Nov. 21.
- Coo, Thomas John, Toronto, Ontario, Canada. Automobile lock. No. 1,419,227; June 13.
- Cook, Adolf F., New York, N. Y. Check dispenser. No. 1,405,495; Feb. 7.

Alphabetical list of patentees—Continued.

- Cook, Albert E., Evanston, and T. Van Tuyl, Kankakee, Ill.; said Van Tuyl assignor to said Cook. No. 1,417,795; May 30.
- Cook, Albert E., Evanston, and T. Van Tuyl, Kankakee, Ill.; said Van Tuyl assignor to said Cook. Interchangeable truck and tractor attachment. No. 1,417,796; May 30.
- Cook, Albert E., Evanston, and T. Van Tuyl, Kankakee, Ill.; said Van Tuyl assignor to said Cook. Speed-changing gear. No. 1,417,797; May 30.
- Cook, Albert E., Evanston, and T. Van Tuyl, Kankakee, Ill.; said Van Tuyl assignor to said Cook. Speed-change tractor attachment for automobiles. No. 1,417,798; May 30.
- Cook, Albert E., Evanston, and T. Van Tuyl, Kankakee, Ill.; said Van Tuyl assignor to said Cook. Spring-mounted tractor attachment. No. 1,417,799; May 30.
- Cook, Albert E., Evanston, and T. Van Tuyl, Kankakee, Ill.; said Van Tuyl assignor to said Cook. Oscillating axle mechanism. No. 1,417,800; May 30.
- Cook, Albert S., Jr. (See Howard, Hasting P., assignor.)
- Cook, Alfred B., Stockton, assignor to Taylor-Mayhew Pump Co., San Francisco, Calif. Oscillating pump. No. 1,416,174; May 16.
- Cook, Arch M., and S. Mower, Spring Hill, Kans. Crank-shaft-truing device. No. 1,408,078; Feb. 28.
- Cook, Bernard, Roanoke, Va. Draft rigging. No. 1,432,536; Oct. 17.
- Cook, Carson C., Stockton, Calif. Soil-tilling machine. No. 1,409,832; Mar. 14.
- Cook, Charles L., Louisville, Ky. Grinder. No. 1,422,035; July 4.
- Cook, Charles S., Maplewood, Mo. Stovepipe anchor. No. 1,435,516; Nov. 14.
- Cook, Chester C., McMinnville, Tenn. Sound record. No. 1,409,674; Mar. 14.
- Cook, Cleve A. (See Cook, Clifford S. and C. A.)
- Cook, Clifford S. and C. A., Sand Lake, Mich. Hose clamp. No. 1,406,443; Feb. 14.
- Cook, Clyde C. (See Frazier, George E., assignor.)
- Cook, David A., Lamont, Iowa. Milk-cooling device. No. 1,427,443; Aug. 29.
- Cook, Edith A., Glenomaru, Otago, New Zealand. Cow milker. No. 1,417,801; May 30.
- Cook, Edward F., Freeport, N. Y. Settling and septic tank. No. 1,422,674; July 11.
- Cook Electric Company. (See Folds, George R., assignor.)
- Cook, Elmer E., Chicago, Ill. Transmission mechanism. No. 1,433,071; Oct. 24.
- Cook, Frank B., Company. (See Folds, George R., assignor.)
- Cook, George E., Brooklyn, N. Y. Commutator. No. 1,426,960; Aug. 22.
- Cook, George W., Tillamook, Oreg. Swing. No. 1,436,481; Nov. 21.
- Cook, Glen W. (See Davis, M. L., and Cook.)
- Cook, H. C., Co., The. (See Carter, Chapel S. and H. P., assignors.)
- Cook, Harry A., Dixon, Nebr. Level. No. 1,409,833; Mar. 14.
- Cook, Harry A., Dixon, Nebr. Plant waterer. No. 1,424,157; Aug. 1.
- Cook, Harry L., Cincinnati, Ohio. Lifting jack. No. 1,410,377; Mar. 21.
- Cook, Mrs. Ida, administratrix. (See Bartell, William L.)
- Cook, James L., Springfield, Ill. Steering-system lock. No. 1,419,024; June 6.
- Cook, Jesse C., Jeffersonville, Ind., and H. E. Austin, assignors to American Cressoting Company, Louisville, Ky. Bail for timber cars. No. 1,428,474; Sept. 5.
- Cook, John T., Newark, N. J. Internal-combustion motor. No. 1,403,736; Jan. 17.
- Cook, John W., Miami, Fla. Rock-cutting machine. No. 1,430,493; Sept. 26.
- Cook, John W. D., London, England. Pipe wrench. No. 1,426,362; Aug. 22.
- Cook, Lawrence E., San Francisco, Calif., assignor of one-fourth to H. Woodhouse, New York, N. Y., and one-fourth to J. A. Steinmetz, Philadelphia, Pa. Wind vane. No. 1,431,441; Oct. 10.
- Cook, Ornan S., Fitchburg, assignor to Gale Box Machinery Company, West Fitchburg, Mass. Shook holder. No. 1,411,413; Apr. 4.
- Cook, Phillip H., Maricopa, assignor of one-third to W. V. Harrington and one-third to A. G. Potter, Oakland, Calif. Uprigger. No. 1,435,451; Nov. 14.
- Cook, Richard, New York, N. Y. Rat trap. No. 1,427,784; Sept. 5.
- Cook, Russell M., and B. Grotta, Tamaqua, assignors to Atlas Powder Company, Philadelphia, Pa. Composition for detonators. No. 1,406,977; Feb. 21.
- Cook, Samuel T., London, Ontario, Canada. Pipe. No. 1,415,221; May 9.
- Cook, Stanley S. (See Parsons, C. A., and Cook.)
- Cook, Stanley S. (See Parsons, C. A., Cook, and Douglas.)
- Cook, Stanley S. (See Parsons, C. A., Carnegie, Bone, and Cook.)
- Cook, Thomas, Stalybridge, England. Baling press. No. 1,426,819; Aug. 22.
- Cook, Thomas R., East Cleveland, assignor to Willard Storage Battery Company, Cleveland, Ohio. Storage battery. No. 1,411,414; Apr. 4.
- Cook, Thomas R., Pittsburgh, assignor to Westinghouse Union Battery Company, Swissvale, Pa. Terminal structure for electric batteries. No. 1,411,988; Apr. 4.
- Cook, Thomas R., and P. E. Norris, Pittsburgh, assignors to Westinghouse Union Battery Company, Swissvale, Pa. Terminal structure for electric batteries. No. 1,411,989; Apr. 4.
- Cook, Wallace L., Chicago, Ill. Protector. No. 1,435,213; Nov. 14.
- Cook, Walter G., Watertown, Mass. Artificial comb and producing same. No. 1,427,149; Aug. 29.
- Cook, Walter H., New Orleans, La. Electric illumination. No. 1,417,457; May 23.
- Cook, Willard B., New Rochelle, N. Y. Moving-picture machine. No. 1,404,013; Jan. 17.
- Cook, William E., Minneapolis, Minn. Hitch. No. 1,404,928; Jan. 31.
- Cook, William E., Minneapolis, Minn. Trailer hitch for harvesters and the like. No. 1,418,700; June 6.
- Cook, William E., assignor, by mesne assignments, to The Peerless Insulated Wire and Cable Company, New York, N. Y. Making insulated wire. No. 1,415,151; May 9.
- Cook, William E., assignor, by mesne assignments, to The Peerless Insulated Wire and Cable Company, New York, N. Y. Making insulated wire. No. 1,415,152; May 9.
- Cook, William E., assignor, by mesne assignments, to The Peerless Insulated Wire and Cable Company, New York, N. Y. Making insulated wire. No. 1,415,153; May 9.
- Cook, William E., assignor, by mesne assignments, to The Peerless Insulated Wire and Cable Company, New York, N. Y. Making insulated wire. No. 1,415,154; May 9.
- Cook, William E., assignor, by mesne assignments, to The Peerless Insulated Wire and Cable Company, New York, N. Y. Making insulated wire. No. 1,415,155; May 9.
- Cook, William E., assignor, by mesne assignments, to The Peerless Insulated Wire and Cable Company, New York, N. Y. Making insulated wire. No. 1,415,156; May 9.
- Cook, William P., Laramie, Wyo. Tester. No. 1,422,742; July 11.
- Cooke, Arthur G., county of Middlesex, England. Gauging apparatus. No. 1,424,556; Aug. 1.
- Cooke, Charles J., Washington, D. C. Airship. No. 1,426,047; Aug. 15.
- Cooke, Charles J., Hong Kong, China. Ordnance. No. 1,434,044; Oct. 31.
- Cooke, Frank V., Detroit, Mich. Vehicle spring. No. 1,421,410; July 4.
- Cooke, Frank V., assignor to K. B. Goddard, Detroit, Mich. Vehicle spring construction. No. 1,429,902; Sept. 19.
- Cooke, George W., Jamaica, assignor to Vacuum Oil Company, New York, N. Y. Dispensing faucet. No. 1,405,099; Jan. 31.
- Cooke, James H., Hartford, Conn. Chain. No. 1,421,915; July 4.
- Cooke, James N., assignor to Pittsburgh Can Company, Pittsburgh, Pa. Can. No. 1,431,218; Oct. 10.
- Cooke, Richard T., Indianapolis, Ind. Power-transmission mechanism. No. 1,422,929; July 13.
- Cooke, Sidney V. (See Ionides, A. C., Jr., and Cooke.)
- Cookson, William S., Taiping, Perak, Straits Settlements, assignor to L. M. Smith, Maunawai, Honolulu, Hawaiian Islands. Manufacturing neutral coconut oil. No. 1,407,930; Feb. 28.
- Coolbaugh, Melville F., Golden, Colo. The purification of sulphur-bearing gases and concentration of their sulphur content. No. 1,412,452; Apr. 11.
- Cooley, Charley A. (See Parrish, G. L., and Cooley, assignors.)
- Cooley, Claude, Lucerne, Mo. Haystacker. No. 1,424,158; Aug. 1.
- Cooley, Fred W., Minneapolis, Minn. Tone modifier for phonographs. No. 1,423,832; July 25.
- Cooley, Frederick A., West McHenry, Ill. Manufacturing feed for live stock and poultry. No. 1,409,998; Mar. 21.
- Cooley, George T., Joplin, Mo. Concentrator. No. 1,429,845; Sept. 19.
- Cooley, Ralph M., St. Paul, Minn. Pavement. No. 1,411,415; Apr. 4.
- Cooley, Roswell P., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Valve. No. 1,422,178; July 11.
- Cooley & Marvin Company. (See Kent, Robert W., assignor.)
- Coolidge, Guy C., Seattle, Wash. Milk pail. No. 1,428,475; Sept. 5.
- Coolidge, William D. (See Hotaling, G., and Coolidge.)
- Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. X-ray apparatus. No. 1,408,989; Mar. 7.
- Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. X-ray-tube shield. No. 1,437,290; Nov. 28.
- Coolman, Colonel E. (See Gillian, I. T., and Coolman.)
- Coombes, William, Hyson Green, Nottingham, England. Twist-lace machine. No. 1,418,130; May 30.
- Coombs, George O., Providence, R. I., assignor to Paper Products Machine Company, Boston, Mass. Carpet and rug package. No. 1,405,188; Jan. 31.

Alphabetical list of patentees—Continued.

- Coombs, Milton C., assignor to Fraser Tablet Company, Brooklyn, N. Y. Nursing-bottle cap. No. 1,435,214; Nov. 14.
- Cooney, Albert E., Detroit, Mich., assignor to Dodge Brothers. Elevating truck. No. 1,403,486; Jan. 17.
- Cooney, Albert E., assignor to Dodge Brothers, Detroit, Mich. Automobile support. No. 1,436,435; Nov. 21.
- Coons, Burton C., Rochester, N. Y. Paring machine. No. 1,430,628; Oct. 3.
- Coons, Herbert E., Harpursville, N. Y. Oven. No. 1,403,012; Jan. 10.
- Cooper, Alexander J., et al., executors. (See Barratt, William T., assignor.)
- Cooper, Allyn R., Marshalltown, Iowa. Controlling device. No. 1,432,537; Oct. 17.
- Cooper, Annie, et al., executors. (See Barratt, William T., assignor.)
- Cooper, Augustus S., Santa Barbara, Calif. Carbon black and producing same. No. 1,423,193; July 18.
- Cooper, Charles H. (See Crane, Ernest W., assignor.)
- Cooper, Charles M., Oklahoma, Okla. Car door. No. 1,420,969; June 27.
- Cooper, Charles W. (See Morris, Pratt C., assignor.)
- Cooper, Ellis W., New York, N. Y. Printing press. No. 1,428,080; Sept. 5.
- Cooper, Francis W., and H. Steadworthy, Montreal, Quebec, Canada. Anchor and clip for rails and the like. No. 1,422,340; July 11.
- Cooper, George G., Hillsboro, Ill. Trolley guard. No. 1,416,398; May 16.
- Cooper, Grace (now by marriage Grace Cooper North), New York, N. Y. Brassiere. No. 1,434,944; Nov. 7.
- Cooper, Horace C., assignor of one-half to D. N. Stewart, Ardmore, Okla. Fishing tool. No. 1,415,995; May 16.
- Cooper, Isaiah C. G., Newcastle-upon-Tyne, England. Batten mold particularly for use in shipbuilding. No. 1,428,042; Sept. 12.
- Cooper, Isidor, Brooklyn, N. Y. Water-supply-faucet attachment. No. 1,434,945; Nov. 7.
- Cooper, J. Frank, and C. H. Zimmerman, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Parachute. No. 1,412,800; Apr. 11.
- Cooper, James D., Toronto, Ontario, Canada. Railway switch. No. 1,422,836; July 18.
- Cooper, James F., Hannibal, Mo. Collapsible bed and tent for automobiles. No. 1,404,930; Jan. 31.
- Cooper, James F., Hannibal, Mo. Collapsible bed and tent for automobiles. No. 1,413,098; Apr. 18.
- Cooper, James F., Hannibal, Mo. Collapsible automobile bed. No. 1,418,287; June 6.
- Cooper, Joseph H., Chicago, Ill. Apparatus for burning comminuted fuel. No. 1,413,323; Apr. 18.
- Cooper, Leonard J., Springville, N. Y. Velocipede. No. 1,404,274; Jan. 24.
- Cooper, Lester W., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Switchboard call-signal apparatus and circuits. No. 1,427,725; Aug. 29.
- Cooper, Matthew O., New York, N. Y. Quoin. No. 1,434,875; Nov. 7.
- Cooper, Robert L., assignor to T. Sebal, Middletown, Ohio. Key-ring holder. No. 1,414,181; Apr. 25.
- Cooper, Sidney R., assignor to U. S. Ball Bearing Manufacturing Company, Chicago, Ill. Ball retainer. No. 1,412,453; Apr. 11.
- Cooper, Simon. (See Koppelman, M., and Cooper.)
- Cooper, Simon, Brooklyn, N. Y. Labeling machine. No. 1,433,874; Oct. 31.
- Cooper, Simon, Brooklyn, N. Y., assignor to American Colortype Company, Newark, N. J. Sheet-assembling machine. No. 1,414,010; Apr. 25.
- Cooper, Simon, Brooklyn, N. Y., assignor to Speedumatic Company. Feeding mechanism. No. 1,428,324; Sept. 5.
- Cooper, Simon, Brooklyn, N. Y., assignor to Menasha Wooden Ware Co., Menasha, Wis. Bailing machine. No. 1,439,504; Dec. 19.
- Cooper, Simon, New York, N. Y., assignor to The Franklin Baker Company, Philadelphia, Pa. Method and apparatus for cracking nuts. No. 1,439,694; Dec. 26.
- Cooper, Thomas L., and J. C. Todman, London, England; said Cooper assignor of his entire rights to Richard J. H. Ryall, Kew, England. Dynamo-electric machine. No. 1,408,931; Mar. 7.
- Cooper, Thomas W., Montclair, N. J. Lens. No. 1,425,452; Aug. 8.
- Cooper, William F., Chicago, Ill. Player piano. No. 1,439,148; Dec. 19.
- Co-operative Utilities Co., Inc. (See Knapp, David R., assignor.)
- Cooperman, Arthur. (See Hackett, Bert G., assignor.)
- Coopersmith, Rudolph, Montreal, Quebec, Canada. Combination furniture. No. 1,426,463; Aug. 22.
- Coopersmith, Rudolph, Montreal, Quebec, Canada, assignor of one-half to A. Ruche, Philadelphia, Pa. Folding bed. No. 1,432,053; Oct. 17.
- Coote, William G., Nyabing, Western Australia, Australia. Cream separator. No. 1,433,342; Oct. 24.
- Cope, Carson C., assignor, by mesne assignments, to The Windsor Manufacturing Company, Windsor, Colo. Haystacker. No. 1,421,175; June 27.
- Cope, Joseph H., Denver, Colo. Haystacker. No. 1,436,014; Nov. 21.
- Cope, Joseph H., Denver, assignor to The Windsor Manufacturing Company, Windsor, Colo. Haystacker. No. 1,426,961; Aug. 22.
- Copeland, Charles H. (See Shoemaker, Thomas P., assignor.)
- Copeland, Edward F., New York, N. Y. Lawn mower. No. 1,403,895; Jan. 17.
- Copeland, Walter M., Cambridge, Mass. Lubricator for valve mechanisms. No. 1,414,934; May 2.
- Copelin, Leonard S., Seal Beach, Calif. Rotary mud. No. 1,411,164; Mar. 28.
- Coplin, Le Roy, Windber, Pa. Stop mechanism for talking machines. No. 1,402,574; Jan. 3.
- Copeman, Lloyd G., Flint, Mich. Refrigerating apparatus. No. 1,409,283; Mar. 14.
- Copeman, Lloyd G., assignor to Edwin W. Atwood, Flint, Mich. Refrigerating apparatus. No. 1,412,775; Apr. 11.
- Copeman, Lloyd G., assignor to E. W. Atwood, Flint, Mich. Refrigerating apparatus. No. 1,415,922; May 16.
- Copeman, Lloyd G., assignor to E. W. Atwood, Flint, Mich. Refrigerating apparatus. No. 1,430,153; Sept. 26.
- Copeman, Lloyd G., assignor to E. W. Atwood, Flint, Mich. Refrigerating apparatus. No. 1,430,154; Sept. 26.
- Coplan, Archibald H., Ottawa, Ontario, Canada. Alloy. No. 1,433,180; Oct. 24.
- Copley, Charles H., Springfield, Mo., assignor of one-half to C. N. Nichols, New York, N. Y. Electric trolley car. No. 1,417,502; May 30.
- Coplin, Le Roy, Windber, Pa. Automatic nonstop stop for talking machines. No. 1,415,800; May 9.
- Copoli, Steven C., Los Angeles, Calif. Measuring attachment for sewing machines. No. 1,427,676; Aug. 29.
- Coppens d'Eeckenbrugge, Baron Emmanuel, Brussels, Belgium. Fishing tackle. No. 1,405,300; Jan. 31.
- Copony, Alfred, assignor to Copony Auto Loading Company, Detroit, Mich. Automobile decking device. No. 1,433,261; Oct. 24.
- Copeman, Lloyd G., assignor to E. W. Atwood, Flint, Loading Company. Construction for loading automobiles in freight cars. (Reissue.) No. 15,500; Dec. 5.
- Copony Auto-Loading Company. (See Copony, Alfred, assignor.) (Reissue.)
- Copp, Charles H., Elberta, Mich. Draftless truck. No. 1,438,901; Dec. 12.
- Copp, Ralph, St. Louis, Mo. Piston ring. No. 1,434,591; Nov. 7.
- Coppage, William R., Washington, D. C. Apparatus for receiving mail from and delivering it to aeroplanes while in flight. No. 1,440,279; Dec. 26.
- Coppus Engineering and Equipment Company. (See Carlson, Axel W., assignor.)
- Coppus Engineering and Equipment Company. (See Coppus, Frans H. C., assignor.)
- Coppus, Frans H. C., Worcester, Mass. Automatic stoker construction for furnaces. No. 1,405,189; Jan. 31.
- Coppus, Frans H. C., assignor to Coppus Engineering and Equipment Company, Worcester, Mass. Turbine-driven blower. No. 1,427,150; Aug. 29.
- Copthorne, Howard N., Chicago, Ill. Zinc coating metal surfaces and zinc paint therefor. No. 1,439,610; Dec. 19.
- Coradi, Oswald, and H. Graf-Buchler, Zurich, Switzerland. Magnetic chuck. No. 1,412,776; Apr. 11.
- Corado, Charles E., Winnipeg, Manitoba, Canada. Hydrocarbon burner. No. 1,413,968; Apr. 25.
- Corado, Charles E., Winnipeg, Manitoba, Canada. Hydrocarbon burner. No. 1,422,930; July 18.
- Corado, Edward C., Winnipeg, Manitoba, Canada. Hydrocarbon burner. No. 1,404,343; Jan. 24.
- Corbe, Israel, Cleveland, Ohio. Trousers stretcher and presser. No. 1,428,274; Sept. 5.
- Corbe, Joseph, assignor to Robert H. Simpers, Washington, D. C. Illuminating device for sewing machines. No. 1,418,822; June 13.
- Corbella, Gaetano, and G. Longoni, Milan, Italy. Valve-controlling mechanism. No. 1,414,624; May 2.
- Corbett, Claude M., Port Arthur, Tex. Locking device. No. 1,423,194; July 18.
- Corbett, Martin S., Glassboro, N. J. Automobile tire. No. 1,430,436; Sept. 26.
- Corbett, Sewell M., Honolulu, Hawaii. Fastener. No. 1,424,803; Aug. 8.
- Corbett, William J., Wolverhampton, England. Spherical globe. No. 1,409,082; Mar. 7.
- Corbin, Charles B., Grand Rapids, Mich. Garment-hanger bracket. No. 1,415,316; May 9.
- Corbitt, Lester J., Detroit, Mich. Indicator lock. No. 1,421,411; July 4.
- Corby, Sydney F. (See Doulton, H. L., Corby, and Pleace.)
- Corcoran, Cornelius B., assignor to Underwood Typewriter Company, New York, N. Y. Typewriter support. No. 1,418,701; June 6.
- Corcoran, Cornelius B., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,433,702; Oct. 31.
- Corcoran, Cornelius B., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,433,984; Oct. 31.
- Corcoran, Cornelius B., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,434,045; Oct. 31.

- Corcoran, Cornelius B., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,434,046; Oct. 31.
- Corcoran, Daniel P., Gridley, Calif. Gradometer. No. 1,422,743; July 11.
- Corcoran, Thomas J. (See Kuen, Eugene A., assignor.)
- Corcoran, Thos. J., Lamp Co., The. (See Church, Frank S., assignor.)
- Corcoran, Thos. J., Lamp Co., The. (See Kuen, Eugene A., assignor.)
- Corcoran Victor Company, The. (See Diesel, C. J., and Jackson, assignors.)
- Corcoran-Victor Company, The. (See Macneale, Neil, assignor.)
- Corder, Vance S., Detroit, Mich. Lid for jars of steam tables. No. 1,431,288; Oct. 10.
- Cordley, Henry G. (See Long, G. R., and Cordley.)
- Cordley, Henry G., Glen Ridge, N. J., and G. R. Long, Waterbury, Conn. Measuring and display dispensing device. No. 1,433,939; Oct. 31.
- Cordley & Hayes. (See Long, G. R., and Cordley, assignors.)
- Cordum, Henry R., Gillespie, Ill. Can perforator. No. 1,432,840; Oct. 24.
- Cordwell, William, and D. Barker, Manchester, England. Cotton-combing machine. No. 1,430,286; Sept. 26.
- Corell, Martin. (See Kränzlein, G., and Corell.)
- Coressey, Theodore, also known as T. N. Koresios, deceased, London, by N. G. Ballewiche, executrix, Barnes, England. Distance-measuring apparatus for vehicles. No. 1,407,986; Feb. 28.
- Corey, Elmer O., Norwood, Ohio. Forcer steam valve. No. 1,428,144; Sept. 5.
- Corey, Fred W., Tilton, N. H. Knitting-machine needle and making same. No. 1,425,239; Aug. 8.
- Corey, Fred W., Tilton, N. H. Knitting-machine latch needle. No. 1,433,123; Oct. 24.
- Corey, James A., London, England. Printing surface. No. 1,426,549; Aug. 22.
- Cork, Tudor C., assignor to American Car and Foundry Company, New York, N. Y. Railway trapdoor lock mechanism. No. 1,405,496; Feb. 7.
- Corkell, Thomas W., Chicago, Ill. Regulator for gas-heater burners. No. 1,406,614; Feb. 14.
- Corle, George F., Bolton, Kans. Animal trap. No. 1,415,801; May 9.
- Corlett, Hubert S., Douglas, Isle of Man. Truck. No. 1,405,293; Jan. 31.
- Corlin, Vilhelm A. J., Nakskov, Denmark. Automatic-acting alarm-clock switch. No. 1,411,910; Apr. 4.
- Corliss Carbon Company. (See Siebenmorgan, William, assignor.)
- Cormack, William, New York, N. Y. Escalating vehicle. No. 1,434,682; Nov. 7.
- Cormack, William C., Chicago, Ill. Band-saw brazing clamp. No. 1,407,188; Feb. 21.
- Corn Products Refining Company. (See Brindle, R. G., and Flint, assignors.)
- Corn Products Refining Company. (See Merrill, Joseph J., assignor.)
- Corn Products Refining Company. (See Spain, William, assignor.)
- Cornéjis, Jean, Liege, Belgium. Screw-cutting machine. No. 1,434,430; Nov. 7.
- Cornelson, Robert W., Somerville, N. J., assignor to Schaeffer & Budenberg Mfg. Co., Brooklyn, N. Y. Recording instrument. No. 1,433,985; Oct. 31.
- Cornelius, Arthur J., Butler, Pa. Parachute drop. No. 1,435,808; Nov. 14.
- Cornell, Charles G., Jr., New York, N. Y. Farming die. No. 1,420,970; June 27.
- Cornell, Edwin L., Willesden, England. Supporting device for use in darning. No. 1,414,182; Apr. 25.
- Cornell, Enoch W. (See Wright, D. C., and Cornell.)
- Cornell, Leonard B., Spokane, Wash. Pin-fastening. No. 1,405,761; Feb. 7.
- Cornell, Milton L. (See Weill, M. K., and Cornell.)
- Cornelsen, Henry. (See Rietzke, Adolph A., assignor.)
- Cornica, Martin V., Chicago, Ill. Circuit-interrupting mechanism. No. 1,429,062; Sept. 12.
- Cornick, Tully R., Petaluma, Calif. Automobile lock system. No. 1,435,809; Nov. 14.
- Corning Glass Works. (See Bailey, James, assignor.)
- Corning Glass Works. (See Churchill, William, assignor.)
- Corning Glass Works. (See Gray, D. E., and Bardrof, assignors.)
- Corning Glass Works. (See Gray, David E., assignor.)
- Corning Glass Works. (See Said, Jesse M., assignor.)
- Corning Glass Works. (See Sullivan, E. C., and Taylor, assignors.)
- Corning Glass Works. (See Taylor, W. C., and Gage, assignors.)
- Corning Glass Works. (See Taylor, William C., assignor.)
- Corning Glass Works. (See Travis, Herbert J., assignor.)
- Corning Glass Works. (See Weisenberger, Jacob, assignor.)
- Cornish, Henry B., Liverpool, England. Electric switch. No. 1,420,472; June 20.
- Cornock, William A., assignor of one-half to W. I. Burke, Lowell, Mass. Boiler. No. 1,412,801; Apr. 11.
- Cornog, Adelaide V. E., et al. (See Spicer, John P., assignor.)
- Cornog, Albin H., et al. (See Spicer, John P., assignor.)
- Cornwall, Frederick R., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Reducing-mill hammer. No. 1,403,013; Jan. 10.
- Cornwell, Elmer E., and J. H. McCready, Okmulgee, Okla. Burner. No. 1,405,100; Jan. 31.
- Cornwell, Elmer E., and J. H. McCready, Okmulgee, Okla. Burner. No. 1,405,101; Jan. 31.
- Corona Manufacturing Company, The. (See Schlinglof, Frank C., assignor.)
- Corona Typewriter Company. (See Armstrong, F. H., and Harmon, assignors.)
- Corona Typewriter Company. (See Armstrong, Frank H., assignor.)
- Corona Typewriter Company. (See Bridges, Lewis B., assignor.)
- Corona Typewriter Company. (See Harmon, Edwin L., assignor.)
- Corona Typewriter Company, Inc. (See Marsh, Kenneth E., assignor.)
- Corporon, George J., Amesbury, Mass. Shock absorber. No. 1,437,291; Nov. 28.
- Corpstein, Roman M., Dubuque, Iowa. Combination carrying case and camping table. No. 1,426,962; Aug. 22.
- Corrado, Vincent. (See Delia, E., and Corrado.)
- Corrall, Herbert, Helensburgh, and B. A. Stevens, Clydebank, Scotland, assignors to The Singer Manufacturing Company. Feeding mechanism for sewing machines. No. 1,414,625; May 2.
- Correia, João N., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph. No. 1,434,773; Nov. 7.
- Correll, Percy E., Adelaide, South Australia, Australia. Reflector. No. 1,413,315; Apr. 18.
- Correll, Percy E., Sydney, New South Wales, Australia. Optical projection apparatus applicable particularly to optical projection lanterns, cinematograph projectors, and the like. No. 1,430,494; Sept. 26.
- Correll, Percy E., Sydney, New South Wales, Australia. Embellishing glass. No. 1,437,181; Nov. 28.
- Corrigan, Charles A., New York, N. Y., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Textile machine. No. 1,430,629; Oct. 3.
- Corrigan, Clyde S., Norwood, Ohio. Deep-well reamer. No. 1,406,348; Feb. 14.
- Corrigan, Clyde S., Norwood, Ohio. Deep-well enlarging and cistern-making machine. No. 1,406,349; Feb. 14.
- Corrigan, Clyde S., Norwood, Ohio. Holding device for deep-well machines. No. 1,406,350; Feb. 14.
- Corrigan, Clyde S., New York, N. Y. Control bracket gear for deep-well enlarging and cistern-making machines. No. 1,406,351; Feb. 14.
- Corrigan, John P., Minneapolis, Minn. Means for operating explosive engines by hydrogen gas. No. 1,438,984; Dec. 19.
- Corrigan, Thomas J., Houghton Lake, Mich. Bushing-removing device. No. 1,403,546; Jan. 17.
- Corsan, John T., London, England. Paper weight and absorbent blotter. No. 1,408,344; Feb. 28.
- Corsini, Attilio, Detroit, Mich. Torpedo guard. No. 1,405,294; Jan. 31.
- Corson, Alfred M., Madison, Me. Measuring and dispensing device. No. 1,411,990; Apr. 4.
- Corson, Isaac S., Great Falls, Mont. Weed burner. No. 1,410,659; Mar. 28.
- Cortese, Frank, New Brunswick, N. J. Bed attachment. No. 1,422,744; July 11.
- Cortez, Gip, Tipton, Calif. Restraining apparatus. No. 1,417,230; May 23.
- Corum, Clinton. (See Swains, C. S., and Corum.)
- Corwin, Frank E., assignor to The National Oil Purifier Company, Toledo, Ohio. Oil purifier. No. 1,404,931; Jan. 31.
- Corwin, Howard D. (See Fox, W. R., and Corwin.)
- Corwin, Ira E., Jerome, Ariz. Tire lock for locomotive wheels. No. 1,430,215; Sept. 26.
- Cory, Charles, & Son, Incorporated. (See Grierson, Paul S., assignor.)
- Cory, Charles, & Son, Incorporated. (See Herrmann, Charles, assignor.)
- Cory, Charles, & Son, Incorporated. (See Wood, Frank W., assignor.)
- Cory, Charles B., Chicago, Ill. Universal putting disk. No. 1,417,458; May 23.
- Cory, Chas., & Son Incorporated. (See Grierson, P. S., and Mead, assignors.)
- Cory, Harvey, and O. D. Gray, Chicago, Ill. Friction lining. No. 1,421,412; July 4.
- Coryell, Amelia, Denver, Colo. Toilet-article case. No. 1,420,523; June 20.
- Coryell, William C., Youngstown, Ohio. Grinding machine. No. 1,402,215; Jan. 3.
- Coryell, William C., assignor to The Power Engineering Company, Youngstown, Ohio. Grinding machine. No. 1,401,961; Jan. 3.
- Cos Process Company, The. (See Chase, M. F., and Pierce, assignors.)
- Cosby, James L., Albuquerque, N. Mex. Railway track. No. 1,415,802; May 9.
- Coseo, Frederick C., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Coll retainer. No. 1,414,773; May 2.
- Cosgray, Mark C., assignor to The Matthews Boat Company, Port Clinton, Ohio. Electric system. No. 1,404,932; Jan. 31.

Alphabetical list of patentees—Continued.

- Cosgrove-Cosgrove Co. (See Cosgrove, Joseph J., assignor.)
- Cosgrove, John P., and W. J. O'Neill, Orange, N. J. Changeable sign. No. 1,411,416; Apr. 4.
- Cosgrove, John W., Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-molding press. No. 1,407,128; Feb. 21.
- Cosgrove, Joseph J., Rutherford, N. J., assignor to Cosgrove-Cosgrove Co., New York, N. Y. Water-closet connection. No. 1,407,734; Feb. 28.
- Coski, Herman, Chicago, Ill. Latch for traveling bags. No. 1,403,014; Jan. 10.
- Cosman, Nathan G. (See MacKenzie, P., and Cosman.)
- Cosper, Fred B., Seattle, Wash. Automobile bed. No. 1,417,802; May 30.
- Cossey, John C. G. (See Mitchell, J., and Cossey.)
- Cossitt, Malcolm L., Alameda, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Manifold attachment for typewriting machines and the like. No. 1,407,931; Feb. 28.
- Cossitt, Malcolm L., Alameda, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Manifold attachment for typewriters. No. 1,407,932; Feb. 28.
- Cossitt, Malcolm L., Alameda, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Manifold attachment for typewriters. No. 1,407,933; Feb. 28.
- Cossitt, Malcolm L., Alameda, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Manifold attachment for typewriters. No. 1,407,934; Feb. 28.
- Cossitt, Malcolm L., Alameda, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Manifold attachment for typewriters. No. 1,407,935; Feb. 28.
- Cossitt, Malcolm L., Alameda, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Manifold attachment for typewriters. No. 1,408,345; Feb. 28.
- Cossitt, Malcolm L., Alameda, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Ribbon attachment especially adapted for typewriters. No. 1,418,624; June 6.
- Cossitt, Malcolm L., Alameda, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Photographic-printing machine. No. 1,421,413; July 4.
- Cossitt, Malcolm L., Alameda, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Manifold attachment for typewriters. No. 1,432,156; Oct. 17.
- Cossitt, Malcolm L., Alameda, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Manifold attachment for typewriters. No. 1,433,181; Oct. 24.
- Cossitt, Malcolm L., Alameda, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Manifold attachment for typewriters. No. 1,433,182; Oct. 24.
- Cossitt, Malcolm L., Alameda, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Manifold attachment for typewriters. No. 1,433,183; Oct. 24.
- Cossitt, Malcolm L., Alameda, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Manifold attachment for typewriters. No. 1,436,979; Nov. 28.
- Cossitt, Malcolm L., Alameda, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Manifold attachment for typewriters. No. 1,439,403; Dec. 19.
- Cossutta, Ferruccio, Trieste, Italy. Hull construction for submarine and like vessels. No. 1,428,218; Sept. 5.
- Costantino, Alix, Providence, R. I. Rubber heel. No. 1,423,399; July 18.
- Costello, Joseph A., Cleveland, Ohio. Making hexagonal hot-metal pieces for making hexagonal nut blanks. No. 1,405,969; Feb. 7.
- Costello, Thomas W., San Francisco, Calif. Tire rim for use on autotrucks and other vehicles. No. 1,410,892; Mar. 28.
- Costello, William J., Penn Township, Allegheny County, assignor to one-half to J. E. Katz, Verona, Pa. Anti-creeper clamp. No. 1,440,062; Dec. 26.
- Costmeter Company. (See Quigley, John T., assignor.)
- Coston, Edward C., Skidmore, Mo. Machine for forcing gears or other articles from a shaft. No. 1,439,611; Dec. 19.
- Coston, Harry W., Port Elizabeth, Cape Province, South Africa. Railway coupling. No. 1,427,942; Sept. 5.
- Cotal, Jean, Puteaux, France. Change-speed gear. No. 1,418,537; June 6.
- Coté, Adrien. (See Cote, Arthur J., and Coté.)
- Coté, Adrien, Franklin, Mass. Submarine life-saving device. No. 1,409,361; Mar. 14.
- Cote, Arthur J., and A. Coté, Franklin, Mass. Attachment for spinning machines. No. 1,422,745; July 11.
- Coté, Thomas F., Prince Albert, Saskatchewan, Canada. Fuse plug. No. 1,424,714; Aug. 1.
- Cotharin, Claude L., Chicago, Ill. Illuminated tool. No. 1,439,404; Dec. 19.
- Cothran, George F. (See Vaughan, Henry A., assignor.)
- Cott, Charles M., Richmond, Va., assignor to Cott Printing & Index Company, Columbus, Ohio. Index. No. 1,437,168; Nov. 28.
- Cott Printing & Index Company. (See Cott, Charles M., assignor.)
- Cotta Transmission Company. (See Asprooth, Axel H., assignor.)
- Cotter, Edward J. and R. E., Philadelphia, Pa. Stepping tool. No. 1,406,156; Feb. 7.
- Cotter, Richard G., Sausalito, Calif. Ballot tally sheet. No. 1,416,792; May 23.
- Cotter, Roy E. (See Cotter, Edward J. and R. E.)
- Cotterman, Eugene P., Wichita, Kans. Shipping case for linotype composition. No. 1,409,153; Mar. 14.
- Cotterman, Lloyd N., New Bremen, Ohio. Headlight adjuster. No. 1,433,802; Oct. 31.
- Cottom, Albert E., East Brunswick, near Melbourne, Victoria, Australia. Manufacturing castings for shaping and drying hosiery. No. 1,422,675; July 11.
- Cotton, Alfred, assignor to Heine Boiler Company, St. Louis, Mo. Water-tube boiler. No. 1,429,716; Sept. 19.
- Cotton, Alfred, assignor to Heine Boiler Company, St. Louis, Mo. Superheater boiler. No. 1,429,717; Sept. 19.
- Cotton, Alfred, assignor to Heine Boiler Company, St. Louis, Mo. Water-tube boiler. No. 1,437,495; Dec. 5.
- Cotton, Arthur F. R., South Kensington, London, England. Sound box of gramophones. No. 1,409,047; Mar. 7.
- Cotton, Arthur F. R., London, England. Diaphragm. No. 1,417,718; May 30.
- Cotton, Charles, and I. L. Rodstrom, McCook, Nebr. Blower tip. No. 1,438,902; Dec. 12.
- Cotton, James H., and W. L. Burner, assignors to The Kilbourne & Jacobs Manufacturing Company, Columbus, Ohio. Truck coupling. No. 1,423,084; July 18.
- Cotton, Orrville D., Dayton, Ohio. Fuel feeder for grates. No. 1,436,794; Nov. 28.
- Cottongim, Willard C., Sharpville, and Ottis F. Kirtley, Kokomo, Ind. Automobile heater. No. 1,410,552; Mar. 28.
- Cottrell, C. B., & Sons Company. (See Barber, Howard M., assignor.)
- Cottrell, C. B., & Sons Company. (See Cottrell, Charles P., assignor.)
- Cottrell, Charles P., Westerly, R. I., assignor, by mesne assignments, to C. B. Cottrell & Sons Company, New York, N. Y. Sheet-feeding mechanism for printing presses. No. 1,406,978; Feb. 21.
- Couch, Albert B., Marlin, Tex. Surgical instrument. No. 1,417,142; May 23.
- Couch, Buel (See Schnoor, Peter J. A., assignor.)
- Couch, Forrest J., assignor to Clark, Cadle, Harmon Corp., Rochester, N. Y. Valve. No. 1,416,175; May 16.
- Couch, Forrest J., assignor to Clark, Cadle, Harmon Corporation, Rochester, N. Y. Driving mechanism for laundry machines. No. 1,417,300; May 23.
- Couch, Forrest J., assignor to Clark, Cadle, Harmon Corporation, Rochester, N. Y. Washing machine. No. 1,418,625; June 6.
- Couch, Forrest J., Rochester, N. Y., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Pressing machine. No. 1,429,409; Sept. 19.
- Couch, Frederick F., assignor, by mesne assignments, to Brunswick-Kroeschell Company, New Brunswick, N. J. Knuckle-joint connection. No. 1,427,361; Aug. 29.
- Couch, Stephen E. (See Poole, H. J., and Couch.)
- Couche, Charles W., Liverpool, and J. Kenyon, Flixton, near Manchester, England. Cooling apparatus for use in soap manufacture. No. 1,437,339; Nov. 28.
- Coughlin, Daniel R., Des Moines, Iowa. Theftproof electric-light bulb. No. 1,437,723; Dec. 5.
- Coughlin, Gerald J., Watertown, N. Y. Display stand. No. 1,419,616; June 13.
- Coughlin, Joseph D., New York, N. Y. Warning signal. No. 1,408,346; Feb. 28.
- Coughran, Samuel J., Buena Park, Calif. Dual spring suspension. No. 1,430,495; Sept. 26.
- Coughtry, Arthur J., Bethlehem, Pa. Countersinking machine. No. 1,424,988; Aug. 8.
- Couk, Patrick K., Roanoke, Va. Bottle-crating machine. No. 1,405,102; Jan. 31.
- Coulier, Sylvain, Schaerbeek, near Brussels, Belgium. Motor vehicle and the like. No. 1,433,072; Oct. 24.
- Coulombe, Joseph C., Dracut, Mass. Fuel-feeding system for internal combustion motors. No. 1,406,157; Feb. 7.
- Coulombe, Joseph C., Dracut, Mass. Suction-operated liquid-feed device. No. 1,408,801; Mar. 7.
- Coulombe, Joseph C., Lowell, Mass. Vacuum fuel-feed device. No. 1,421,067; June 27.
- Coulombe, Joseph C., Lowell, Mass. Fuel-feeding and suction-inducing device. No. 1,424,715; Aug. 1.
- Coulson, John, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrolyte. No. 1,412,513; Apr. 11.
- Coulson, John, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrolyte. No. 1,412,514; Apr. 11.
- Coulson, John, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrolytic light source. No. 1,419,360; June 13.
- Coulson, John, Wilkinsburg, and C. J. Rottmann, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. Terminal protector for electrolytic condensers and rectifiers. No. 1,438,636; Dec. 12.
- Coulson, William, assignor to A. S. Rosenzweig, Spring Valley, Ill. Shovel. No. 1,430,797; Oct. 3.
- Coulson, William T., Anerley, London, England. Vehicular and other lamps. No. 1,420,524; June 20.
- Coultas, Barnard B., and E. J. Stanley, Bakersfield, Calif. Rod or well-casing elevator. No. 1,436,621; Nov. 21.
- Coultas, William L., Jr., Seaford, N. Y. Feeding device. No. 1,419,025; June 6.
- Coulter, James, Bridgeport, Conn. Chain link. No. 1,435,700; Nov. 14.

Alphabetical list of patentees—Continued.

- Coulter, Leonard P., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor controller. No. 1,439,871; Dec. 26.
- Coulter & McKenzie Machine Company. (See Fray, James A., assignor.)
- Counas, Agamemnon, Paris, France. Electrical furnace for treating ores. No. 1,430,948; Oct. 3.
- Courant, Emile, and E. Aubry, Antwerp, Belgium. Tractor with trailer and connection. No. 1,439,294; Dec. 19.
- Courchene, Albert B., Chicago, Ill. Pipe coupling. No. 1,415,157; May 9.
- Cournaud, Jules, Paris, France. Syringe with progressively-graduated automatic action. No. 1,416,614; May 16.
- Court, Clarence W., Chicago, Ill., assignor to W. P. Murphy, New York, N. Y. End reinforcement for box cars. No. 1,432,969; Oct. 24.
- Courtney, Thomas J., W. A. Quinn, and J. F. Connors, Scranton, Pa. Stoker grate. No. 1,437,931; Dec. 5.
- Courtney, Thomas L., assignor of two-thirds to H. Keith, (junior), Wychitella, Victoria, Australia. Shock-absorbing wheel for motor cars. No. 1,430,949; Oct. 3.
- Courtney, Thomas L., assignor of two-thirds to H. Keith, jr., Wychitella, Victoria, Australia. Shock-absorbing road wheel for motor cars and the like. No. 1,435,051; Nov. 7.
- Courtot, Louis, Paris, France. Means for fixing foundry cores in moulds. No. 1,403,467; Jan. 10.
- Courtroy, Ferdinand, Brussels, Belgium. Coal washer. No. 1,430,216; Sept. 26.
- Courville, Joseph A., Marlboro, Mass. Block-planing machine. No. 1,407,382; Feb. 21.
- Couse, Kibbey W., New York, N. Y. Keyway locator. No. 1,422,746; July 11.
- Cousins, George, Oswego, N. Y. Micrometer calipers. No. 1,405,295; Jan. 31.
- Cousins, John P., Portsmouth, Va., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Thermostatic valve for heating systems. No. 1,439,069; Dec. 19.
- Coutts, Cornelius M., Issaquah, Wash. Shelving. No. 1,429,846; Sept. 19.
- Coutts, George W., Waukesha, Wis. Permutation lock for the fuel-supply lines of internal-combustion engines. No. 1,408,932; Mar. 7.
- Couture, William L., San Francisco, assignor of one-fourth to J. J. Redmond, Sacramento, Calif. Jack. No. 1,435,452; Nov. 14.
- Couturier, Ernst A., Laporte, Ind. Mute for musical instruments. No. 1,425,318; Aug. 8.
- Couturier, Ernst A., Laporte, Ind. Quick-change valve for musical instruments. No. 1,436,085; Nov. 21.
- Couturier, Ernst A., Laporte, Ind. Wind instrument. No. 1,438,363; Dec. 12.
- Couwenhoven, Abraham, Hôngg, near Zurich, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Multiple-control apparatus for electric railways. No. 1,411,269; Apr. 4.
- Covan, William R., New Straitsville, Ohio. Fencepost. No. 1,409,155; Mar. 14.
- Covelle, Albert E., West Medford, Mass. Lens-marking machine. No. 1,438,519; Dec. 12.
- Cover, Harvey S., South Bend, Ind. Eye goggles. No. 1,433,676; Oct. 31.
- Covert, Homer L., assignor to Dow Wire & Iron Works, Louisville, Ky. Meter for measuring the heat flow through pipes. No. 1,411,165; Mar. 28.
- Covey, Tona. (See Covey, Victor L. and T.)
- Covey, Victor L., Tell City, Ind., and T. Covey, Louisville, Ky. Cane stripper. No. 1,424,989; Aug. 8.
- Covi, John B., Far Rockaway, N. Y., assignor to General Motors Corporation, Detroit, Mich. Supporting bar and hinge construction for automobile hoods. No. 1,421,068; June 27.
- Covington, John W., Salt Lake City, Utah. Convertible day coach and sleeper. No. 1,417,719; May 30.
- Cowan, Aurelius H. (See Hardy, Essie, assignor.)
- Cowan, Charles O., Seattle, Wash. Drinking fountain. No. 1,409,930; Mar. 21.
- Cowan, John A., Minneapolis, Minn. Straw-briquetting machine. No. 1,403,294; Jan. 10.
- Cowan Truck Company. (See Eidmann, Frank L., assignor.)
- Coward, Ernest S., Bradford, England. Detachable wheel for vehicles. No. 1,434,098; Oct. 31.
- Coward, John D., Newton Upper Falls, Mass. Traffic signal. No. 1,422,179; July 11.
- Cowburn, Thomas, Churchdown, England. Toy horse propelled by the rider. No. 1,418,626; June 6.
- Cowden, Harry D., Pittsburg, Kans. Mop. No. 1,420,525; June 20.
- Cowdery, Forrest I. (See Summers, Charley E., assignor.)
- Cowdery, George R., Ottumwa, Iowa. Fishing-rod holder. No. 1,410,798; Mar. 28.
- Cowdrill, Sidney, Toronto, Ontario, Canada. Clasp. No. 1,425,178; Aug. 8.
- Cowell, John E., Crest, Colo. Shade roller. No. 1,406,934; Feb. 14.
- Cowell, Selden S., Huntsdale, Pa. Collapsible funnel. No. 1,408,865; Mar. 7.
- Cowen, Joshua L., New York, N. Y. Armature brush holder for electric toy dynamos. No. 1,405,497; Feb. 7.
- Cowen, Joshua L., New York, N. Y. Hand letter folder. No. 1,424,881; Aug. 8.
- Cowey, Leonard E., Kew Gardens, England. Diaphragm warning horn. No. 1,416,452; May 16.
- Cowey, Leonard E., Kew Gardens, England. Spring suspension of motor road vehicles. No. 1,435,915; Nov. 21.
- Cowles, Alfred H., Sewaren, N. J. Fertilizer. No. 1,408,169; Feb. 28.
- Cowles, C., & Co. (See Bradley, John S., jr., assignor.)
- Cowles, C., & Co. (See Gates, Louis W., assignor.)
- Cowles, C., & Company. (See Bulley, Louis T., assignor.)
- Cowles, Eugene, Shelbyville, Ky. Signaling device. No. 1,435,632; Nov. 14.
- Cowles, George C., assignor to Germain Brothers Company, Saginaw, Mich. Clamp. No. 1,404,275; Jan. 24.
- Cowles, Isa Belle, Syracuse, N. Y. Nursing-bottle-supporting frame. No. 1,428,758; Sept. 12.
- Cowles, Lewis G., Yutan, Nebr. Eraser. No. 1,408,564; Mar. 7.
- Cowles, Ralph L., Canton, Conn. Radiator protector. No. 1,436,482; Nov. 21.
- Cowles, Thomas L., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Power plant. No. 1,402,481; Jan. 3.
- Cowles, Thomas L., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Door curtain for vehicles. No. 1,418,627; June 6.
- Cowles, William B., Philadelphia, Pa., assignor to Weldless Chain Corporation, Dover, Del. Manufacturing weldless stud-link ship-cable shot. No. 1,431,442; Oct. 10.
- Cowles, William B., Philadelphia, Pa., assignor to Weldless Chain Corporation, Dover, Del. Die rolling mill for the manufacture of weldless chains. No. 1,431,443; Oct. 10.
- Cowles, William B., Philadelphia, Pa., assignor to Weldless Chain Corporation, Dover, Del. Automatic die-routing duplicator for die rolls. No. 1,434,683; Nov. 7.
- Cowperthwaite, William T., Mount Eden, New Zealand. Means for use in the manufacture of concrete roofing tile. No. 1,403,940; Jan. 17.
- Cox, Abram, Stove Company. (See Mott, Abram C., jr., assignor.)
- Cox, Albert J. (See Poirier, Alphonse, assignor.)
- Cox, Alonzo C., assignor of one-half to G. A. Clark, Cantril, Iowa. Draft device for harrows. No. 1,435,107; Nov. 7.
- Cox Brass Manufacturing Company. (See Cox, William G., assignor.)
- Cox, Charles M., Straight, Pa. Bracket. No. 1,409,525; Mar. 14.
- Cox, Claude E., Detroit, Mich. Gasoline-tank indicator. No. 1,432,157; Oct. 17.
- Cox Conservador Company. (See Cox, Harry B., assignor.)
- Cox, Cumming. (See Martin, Wyatt, assignor.)
- Cox, Daniel R., and D. A. Kinnie, Pasadena, Calif. Gasoline-line lock. No. 1,426,154; Aug. 15.
- Cox, David H., Roselle, N. J. Cap for valve tubes. (Reissue.) No. 15,359; May 23.
- Cox, Donald S., Buffalo, N. Y. Holder for disk records. No. 1,403,939; Jan. 17.
- Cox, E. G., Manufacturing Company, The. (See Cox, Edwin G., assignor.)
- Cox, Edward, assignor of one-fourth to E. N. Bezenberger, Bloomfield, Iowa. Poultry crate. No. 1,429,718; Sept. 19.
- Cox, Edwin G., Berkeley, Calif. Tractor-belt link. No. 1,413,099; Apr. 18.
- Cox, Edwin G., Walla Walla, Wash., assignor to The E. G. Cox Manufacturing Company, Oakland, Calif. Belt-tractor attachment for motor vehicles. No. 1,413,100; Apr. 18.
- Cox, G. Clay. (See Janes, Joseph, assignor.)
- Cox, George R., Jersey City, N. J., assignor to Westinghouse Electric & Manufacturing Company. Composite plate and making same. No. 1,437,094; Nov. 28.
- Cox, Harry B., assignor, by mesne assignments, to Cox Conservador Company, Los Angeles, Calif. Apparatus and method for preserving perishable substances. No. 1,418,777; June 6.
- Cox, Henry B., Cordele, Ga. Concrete-culvert form. No. 1,429,021; Sept. 12.
- Cox, Henry E., Brea, Calif. Coupling for rotary pipes. No. 1,431,513; Oct. 10.
- Cox, Henry G., Chicago, Ill., assignor to International Harvester Company. Magneto. No. 1,435,281; Nov. 14.
- Cox, Herbert S., London, England, assignor to W. J. McCrudden, Leeds, N. Y. Automobile-windshield fitting. No. 1,414,626; May 2.
- Cox, Jesse C. (See Dixon, T. K., Cox, and Klein.)
- Cox, John J., and R. Wendelken, assignors to J. Winter, New York, N. Y. Carburetor. No. 1,414,935; May 2.
- Cox, John L., Philadelphia, Pa. Making projectiles. No. 1,407,254; Feb. 21.
- Cox, John L., Philadelphia, Pa. Heat-treating and hardening projectiles. No. 1,407,255; Feb. 21.
- Cox, John L., Philadelphia, Pa. Making projectiles. No. 1,409,929; Mar. 21.
- Cox, John L., Philadelphia, Pa. Armor-piercing projectile. No. 1,419,861; June 13.
- Cox, Joseph D., Healdsburg, Calif. Dehydrating apparatus. No. 1,416,793; May 23.

Alphabetical list of patentees—Continued.

- Cox, Kenwick C., Norfolk Island, South Pacific. Moving coil relay. No. 1,427,093; Aug. 29.
- Cox, Ora C., Philadelphia, Pa. Pipe vise. No. 1,410,553; Mar. 28.
- Cox, Ora M., Manayka, and C. C. Rose, Clarksburg, W. Va. Sheet-glass-drawing machine. No. 1,423,195; July 18.
- Cox, Paul F., Chicago, Ill. Addressing mechanism (stripper). No. 1,431,456; Oct. 10.
- Cox, Robert N., Waukegan, Ill. Milk-bottle-cap remover. No. 1,419,823; June 13.
- Cox, Thomas E., assignor of one-third to J. G. Tidwell and one-third to W. P. Blair, Birmingham, Ala. Wrench attachment. No. 1,437,043; Nov. 28.
- Cox, Walter, and A. Shuman, assignors to Pennsylvania Wire Glass Company, Philadelphia, Pa. Making corrugated wire glass. No. 1,418,236; May 30.
- Cox, William A., Phoenix, Ariz. Combined hose drum and coupling. No. 1,417,459; May 23.
- Cox, William C., Cleveland, Ohio. Attachment bracket for automobile bumpers. No. 1,411,956; Apr. 4.
- Cox, William C., Washington, D. C. Periscope attachment for motion-picture cameras. No. 1,418,364; June 6.
- Cox, William F., assignor to Sanitary Heating and Ventilating Company, Incorporated, Danville, Va. Air cleaning and moistening device. No. 1,436,483; Nov. 21.
- Cox, William G., Cleveland, Ohio. Automobile bumper bracket. No. 1,411,955; Apr. 4.
- Cox, William G., Cleveland, Ohio. Duplex-bar bumper for automobiles. No. 1,412,554; Apr. 11.
- Cox, William G., Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y. Bumper attachment for automobiles. No. 1,409,675; Mar. 14.
- Cox, William G., Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y. Bumper attachment for vehicle suspension springs. No. 1,419,228; June 13.
- Cox, William G., Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y. Automobile bumper bracket. No. 1,429,410; Sept. 19.
- Cox, William H., Collegeville, Pa. Mop. No. 1,438,748; Dec. 12.
- Coxe, Albert E. (See Carter, C. B., and Coxe.)
- Coxon, Sydney, Liverpool, and W. A. Williams, Wallasey, assignors to The Aladdin Renew Electric Lamp Corporation Limited, London, England. Renewal of the filaments in metal-filament electric lamps. No. 1,422,747; July 11.
- Coy, Albert E., Chicago, Ill. Telephone receiver. No. 1,403,592; Jan. 17.
- Coy, Albert E., Chicago, Ill. Telephone transmitter. No. 1,403,593; Jan. 17.
- Coy, Donald W. (See Williams, T. F., Coy, and Pruden.)
- Coyle, Albert A., and W. S. Mitchell, St. Louis, Mo. Capstan. No. 1,424,990; Aug. 8.
- Coyne, James, Pittsburgh, Pa. Clean-out device for Pitot tubes. No. 1,438,811; Dec. 12.
- Coyne, Richard J., et al., trustees. (See Kluefer, Guy L., assignor.)
- Cozzens, Charles O., assignor to American Optical Company, Southbridge, Mass. Eye protector. No. 1,426,550; Aug. 22.
- Cozzens, Fred H., New York, N. Y. Axle mounting for vehicles. No. 1,427,362; Aug. 29.
- Crabb, George W. J., Newark, N. J. Dirigible headlight. No. 1,426,963; Aug. 22.
- Crabb, George W. J., East Orange, N. J. Resilient bumper. No. 1,426,964; Aug. 22.
- Crabbs, Roscoe B., Cincinnati, Ohio, assignor to The Philip Carey Manufacturing Company. Prepared-roofing shingle strip. No. 1,415,923; May 16.
- Crabill, Pearl P. (See Turner, J., and Crabill.)
- Crabill, Pearl P., and J. Turner, Springfield, Ohio. Bumper for automobiles. No. 1,402,399; Jan. 3.
- Crabtree, Thomas, Worcester, Mass. Bottle-sealing device. No. 1,440,136; Dec. 26.
- Craddick, William F., and C. M. Uhlig, assignors to Vit-O-Net Mfg. Co., Chicago, Ill. Electrical pad and the like. No. 1,436,384; Nov. 21.
- Craddock, Stark W., Richland, Mo. Permutation lock. No. 1,418,778; June 6.
- Craft, Clarence H., assignor of one-third to H. D. Hutchinson and one-third to J. Q. Adams, Uniontown, Pa. Electrically-lighted motor meter. No. 1,423,755; July 25.
- Craft, Edward B., Hackensack, N. J., and J. N. Reynolds, Greenwich, Conn., assignors, by mesne assignments, to Western Electric Company, Incorporated, New York, N. Y. (Reissue.) Automatic telephone exchange system. No. 15,341; Apr. 25.
- Crafton, William L., assignor, by mesne assignments, to United States Automobile Accessories Manufacturing Company, St. Louis, Mo. Whistle valve. No. 1,412,777; Apr. 11.
- Craib, Frederick, and J. Barnett, Martinez, Calif. Mop wringer. No. 1,419,543; June 13.
- Craig, Alexander, Sydney, New South Wales, Australia. Waving or curling hair. No. 1,424,991; Aug. 8.
- Craig, Alexander, Coventry, England. Golf club. No. 1,420,569; Sept. 19.
- Craig, Burnie J., assignor to The American Multigraph Company, Cleveland, Ohio. Assembled printing form. No. 1,438,582; Dec. 12.
- Craig, Charles F., San Francisco, Calif., assignor to Craig Golfmeter Co., Wilmington, Del. Captive-ball practice device. No. 1,421,414; July 4.
- Craig Chemical Corporation. (See Craig, William E., assignor.) (Reissue.)
- Craig, David, Peabody, Mass., assignor of one-half to C. H. Lovsey, Pittsburgh, Pa. Roof. No. 1,427,943; Sept. 5.
- Craig, Edward, St. Joseph, Mich. Wirebound-box construction. No. 1,437,227; Nov. 28.
- Craig, Edward, St. Joseph, Mich. Box-sealing machine. No. 1,437,228; Nov. 28.
- Craig Golfmeter Co. (See Craig, Charles F., assignor.)
- Craig, Hugh, Calgary, Alberta, Canada. Pump. No. 1,439,295; Dec. 19.
- Craig, J. L., et al. (See Mallard, H., and White, assignors.)
- Craig, James, Andover, Mass. Door for railway cars of the dumping-car type. No. 1,420,971; June 27.
- Craig, Louis B., Davenport, Iowa. Clamp. No. 1,408,933; Mar. 7.
- Craig, Louis B., Davenport, Iowa. Saddler's chest. No. 1,421,916; July 4.
- Craig, Louis B., Davenport, Iowa. Lunette bracket. No. 1,423,196; July 18.
- Craig, Mancis, Bedford, Ind. Auxiliary air valve for motors. No. 1,411,957; Apr. 4.
- Craig Manufacturing Co. (See Jenkins, B. O., and Traylor, assignors.)
- Craig, Richard M., San Antonio, Tex. Animated sign. No. 1,428,007; Sept. 5.
- Craig, Richard M., San Antonio, Tex. Method of and apparatus for producing transformation effects. No. 1,428,008; Sept. 5.
- Craig, Robert, Dayton, Ohio, assignor to International Scale Company, Dayton, Ohio. Rack and pinion device for scales. No. 1,411,270; Apr. 4.
- Craig, Robert J. B., Collingwood, Ontario, Canada. Container for dispensing liquids. No. 1,426,846; Aug. 22.
- Craig, Wiley, Cincinnati, Ohio. Draft regulator. No. 1,431,289; Oct. 10.
- Craig, William E., Joplin, Mo., assignor, by mesne assignments, to Craig Chemical Corporation, Cleveland, Ohio. Treatment for venereal diseases. No. 1,408,170; Feb. 28.
- Craig, William E., Joplin, Mo., assignor, by mesne assignments, to Craig Chemical Corporation, Cleveland, Ohio. Treatment for venereal diseases. (Reissue.) No. 15,411; July 18.
- Craighead, James R., Schenectady, N. Y., assignor to General Electric Company. Recording instrument. No. 1,415,528; May 9.
- Craighead, Magruder, Hartsdale, N. Y., assignor to Johns-Manville, Incorporated. Brake and friction member. No. 1,405,103; Jan. 31.
- Craighead, Magruder, Hartsdale, N. Y., assignor to Johns-Manville Incorporated. Fastening means and applying same. No. 1,423,833; July 25.
- Crail, Atlas O., Warren, Ohio. Seasoning wood. No. 1,416,269; May 16.
- Crain, Harrison U., St. Louis, Mo. Hinge for folding beds. No. 1,428,759; Sept. 12.
- Crain, Patrick M., and J. P. Smith, Hammond, Ind. Tire protector. No. 1,415,803; May 9.
- Craley, Clarence C., Reading, Pa. Lathe attachment. No. 1,405,670; Feb. 7.
- Cramer, Albert N. (See Landrum, F. H., and Cramer.)
- Cramer, Anton M., Arendal, Norway. Hollow concrete block. No. 1,415,222; May 9.
- Cramer, Anton M., Arendal, Norway. Concrete wall. No. 1,421,120; June 27.
- Cramer, Carl, Zurzach, Switzerland, assignor to Firm: Chemische Fabrik Griesheim-Elektron, Frankfurt-on-the-Main, Germany. Producing magnesium carbonate. No. 1,427,444; Aug. 29.
- Cramer, Christopher E., Hackensack, N. J. Attachment for paper-making machines. No. 1,423,400; July 18.
- Cramer, Edwin R., Newark, and O. H. Cramer, Edgewater, N. J. Oil projectile. No. 1,416,615; May 16.
- Cramer, Howard, Jacksonville, Fla., assignor of one-half to L. Richardson, Louisville, Ky. Hub liner for railway-locomotive wheels. No. 1,426,715; Aug. 22.
- Cramer, Oscar H. (See Cramer, E. R. and O. H.)
- Cramer, Otto P., Geneva, Switzerland. Suspension device for globes and reflectors for indirect and concentrated lighting. No. 1,414,627; May 2.
- Cramer, Otto P., Geneva, Switzerland. Gas and air regulating device for incandescent-mantle burners. No. 1,418,237; May 30.
- Cramer, Stanley S., Camden, N. J. Pneumatic power generator. No. 1,418,238; May 30.
- Cramer, Stanley S., Camden, N. J. Pneumatic power generator. No. 1,431,907; Oct. 10.
- Cramer, William. (See Jacobs, I. M., and Cramer.)
- Crandall, Albert L., Buffalo, assignor to F. M. Campbell, Rochester, N. Y. Caster socket. No. 1,439,149; Dec. 19.
- Crandall, Irving B., Nahant, Mass., assignor to Western Electric Company, Incorporated, New York, N. Y. Connecting transmitters to vacuum-tube amplifiers. No. 1,422,837; July 18.
- Crandall, Merton L., Jackson, Mich. Water filter. No. 1,430,950; Oct. 3.
- Crandall, Milton S. (See Benson, E. R., and Crandall.)
- Crandall, Orlando, C., Stanwood, Mich. Combined sand and gravel screen. No. 1,424,451; Aug. 1.

Alphabetical list of patentees—Continued.

- Crandall, William H., Menlo Park, Calif. Towing hook. No. 1,435,587; Nov. 14.
- Crandell, Willis S., Elsmere, assignor to A. P. W. Paper Co., Albany, N. Y. Cylinder paper-making machine. No. 1,422,541; July 11.
- Crane, Adam L., Fort Mill, S. C. Cement tie and rail fastener. No. 1,423,600; July 25.
- Crane, Arthur H., San Francisco, Calif., assignor to Hercules Powder Company, Wilmington, Del. High liquid pressure detonator. No. 1,408,565; Mar. 7.
- Crane, Arthur T., assignor to The Chase Companies Inc., Waterbury, Conn. Visible spark plug. No. 1,425,748; Aug. 15.
- Crane, Arthur T., assignor to The Chase Companies Inc., Waterbury, Conn. Visible spark plug. No. 1,425,749; Aug. 15.
- Crane Company. (See Forsberg, Oscar A., assignor.)
- Crane Company. (See Houser, A. M., and Morris, assignors.)
- Crane Company. (See Lindberg, Sam J., assignor.)
- Crane Company. (See Pfeiffer, Karl O., assignor.)
- Crane, Ernest W., assignor of one-half to C. H. Cooper, Buena Vista, Fla. Liquid conveyer. No. 1,406,158; Feb. 7.
- Crane, Frederick D., assignor of one-half to N. L. Foster, Montclair, N. J. Receptacle closure. No. 1,417,975; May 30.
- Crane, Frederick G., et al. (See Hammond, Grant, assignor.)
- Crane, George A., Chicago, Ill. Power-transmitting apparatus. No. 1,406,444; Feb. 14.
- Crane, Henry M., New York, N. Y. Vehicle spring suspension. No. 1,406,935; Feb. 14.
- Crane, Henry M., New York, N. Y., assignor to Wright Aeronautical Corporation. Compression-relief device for internal-combustion engines. No. 1,439,798; Dec. 26.
- Crane, Herbert W., Chicago, Ill. Door-controlling device. No. 1,422,931; July 18.
- Crane, Jasper E. (See Underwood, K. C., Crane, and Kessler.)
- Crane, Joshua, et al., trustees. (See Waterhouse, Harold D., assignor.)
- Crane, Louis, New York, N. Y. Nonremovable cork. No. 1,416,616; May 16.
- Crane, Richard. (See Snadecki, William J., assignor.)
- Crane, Samuel G., Toledo, Ohio. Electric water heater. No. 1,437,383; Nov. 28.
- Crane, Samuel G., Toledo, Ohio. Electric water heater. No. 1,437,384; Nov. 28.
- Crane, Samuel G., assignor to Toledo Scale Company, Toledo, Ohio. Indicator for weighing scales. No. 1,407,987; Feb. 28.
- Crane, Theodore G., Chicago, Ill., assignor to Airolast Corporation. Apparatus for smoking and curing meat. No. 1,414,504; May 2.
- Crane, Walter S., et al., trustees. (See Waterhouse, Harold D., assignor.)
- Crane, William M., Company. (See O'Dowd, Henry W. J., assignor.)
- Crane & Breed Manufacturing Company. (See Kallmeyer, Frank J., assignor.)
- Cranford, H. W. (See Chambliss, James, assignor.)
- Crank, James O., Mendon, Ill. Shock absorber. No. 1,407,640; Feb. 21.
- Cranmer, George H., Philadelphia, Pa. Bit gauge. No. 1,430,951; Oct. 3.
- Cranny, John E., Omaha, Nebr. Attachment for line-casting machines. No. 1,405,498; Feb. 7.
- Cranshaw, Harold B., Boston, Mass. Receptacle. No. 1,437,748; Dec. 5.
- Cranston, Albert E., Spokane, Wash. Mechanical movement. No. 1,417,503; May 30.
- Craven, Alfred B., Selby, assignor, by mesne assignments, to Yorkshire Dyeware & Chemical Company Limited, Leeds, York, England. Manufacture of linoleum and the like. No. 1,438,221; Dec. 12.
- Craven, Alfred B., Selby, assignor to The Yorkshire Dyeware & Chemical Company Limited, Leeds, York, England. Linoleum and linoleum cement. No. 1,438,222; Dec. 12.
- Craven, Francis S., and J. Mihalyi, Washington, D. C. Lubricating grease cup. No. 1,424,557; Aug. 1.
- Craver, Augustus E. (See Bailey, G. C., and Craver.)
- Craver, Howard S., assignor of one-half to H. S. Judd, Chicago, Ill. Washing machine. No. 1,412,924; Apr. 18.
- Craw, Frank C., South Norwalk, Conn. Automobile theft alarm. No. 1,434,099; Oct. 31.
- Craw, Frank C., East Norwalk, assignor to Turner Machine Company, Danbury, Conn. Soft-hat-rounding machine. No. 1,418,288; June 6.
- Crawfs, Amos D., Toledo, Ohio. Reshipment container. No. 1,430,537; Oct. 3.
- Crawford, Albert G., assignor to H. W. Seaman, Chicago, Ill. Refrigerating process. No. 1,439,728; Dec. 26.
- Crawford, Beatty M., Santa Ana, assignor to V. V. Kunkel, Los Angeles, Calif. Honey extractor. No. 1,414,260; Apr. 25.
- Crawford, Charles C. (See Maddox, Robert A., assignor.)
- Crawford, Dolph B., Chicago, Ill. Piston. No. 1,416,795; May 23.
- Crawford, Frank, sr., assignor to The Crawford Manufacturing Company, New Brunswick, N. J. Stop-motion brake attachment. No. 1,428,416; Sept. 5.
- Crawford, Frank E., Potter, assignor of forty-nine per cent to Harry L. Crawford and O. L. Miller, Revenna, Nebr. Differential gearing. No. 1,404,836; Jan. 31.
- Crawford, Franklin E., Winchester, assignor to Bankers Electric Protective Association, Boston, Mass. Alarm system. No. 1,418,628; June 6.
- Crawford, Franklin E., Winchester, assignor to Bankers Electric Protective Association, Boston, Mass. Detector for alarm system. No. 1,423,601; July 25.
- Crawford, Fred, St. Louis, Mo. Key-ring holder. No. 1,432,016; Oct. 17.
- Crawford, George H., Lorain, Ohio. Display fixture. No. 1,405,569; Feb. 7.
- Crawford, Harry H., Wellsburg, W. Va. Valve for gas engines. No. 1,406,979; Feb. 21.
- Crawford, Harry L., et al. (See Crawford, Frank E., assignor.)
- Crawford, Harvey F., deceased, Brockton, Mass.; L. M. Jackson, executrix. Adjustable last. No. 1,424,343; Aug. 1.
- Crawford, Hezekiah H., El Paso, Tex. Metallic roof. No. 1,406,980; Feb. 21.
- Crawford, James H., Deadwood, S. Dak. Combined knife and fork. No. 1,425,750; Aug. 15.
- Crawford, Jesse C., Pittsburgh, Pa. Memoranda device. No. 1,412,043; Apr. 11.
- Crawford, John, and F. A. Weaver, Denver, Colo. Expandable bit. No. 1,415,317; May 9.
- Crawford, John F., assignor to J. L. Case Threshing Machine Company, Racine, Wis. Gear-making machine. No. 1,428,219; Sept. 5.
- Crawford, John F., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Pulley-grinding machine. No. 1,434,592; Nov. 7.
- Crawford, Josiah, Faversham, Ontario, Canada. Ax handle. No. 1,431,153; Oct. 10.
- Crawford Manufacturing Company, The. (See Crawford, Frank, sr., assignor.)
- Crawford, McGregor and Canby Company, The. (See Matern, George W., assignor.)
- Crawford, Middleton, assignor to Spokane Irrigation Pump Company, Spokane, Wash. Rotary pump. No. 1,426,820; Aug. 22.
- Crawford, Samuel M., Winfield, N. Y. Sterilizing and cooling apparatus. No. 1,405,816; Feb. 7.
- Crawford, T. H. (See Tillar, Henry J., assignor.)
- Crawford, William H., Los Angeles, Calif. Cable-way excavator. No. 1,406,725; Feb. 14.
- Crawfordville Seed Company. (See Herr, Shirl, assignor.)
- Crawley, Courtland J., assignor of one-half to W. N. Ferreira, Chicago, Ill. Caster. No. 1,404,743; Jan. 31.
- Cray, Harry C., Akron, Ohio. Control mast. No. 1,432,970; Oct. 24.
- Craynok, Andrew M., Jr., et al. (See Kehr, John F., assignor.)
- Crayton, Hadley S., Towanda, Ill. Sanitary toilet seat. No. 1,429,490; Sept. 19.
- Creadon, James J., Chicago, Ill., assignor, by mesne assignments, to Lite Products Corp., Wilmington, Del. Curtain rod. No. 1,434,369; Nov. 7.
- Creag, Charles A. (See Hillyer, G. L., and Creag.)
- Creager, David G., Lyons, N. Y. Saw set. No. 1,402,921; Jan. 10.
- Creamean, William F., Toledo, Ohio. Hopper-door-locking device. No. 1,440,280; Dec. 26.
- Creamery Package Mfg. Company, The. (See Valerius, T. L., and Larsen, assignors.)
- Cramery Package Mfg. Company, The. (See Valerius, Theodore L., assignor.)
- Creasy, Reuben B., Ballinger, Tex. Folding cot. No. 1,434,100; Oct. 31.
- Creed, Frederick G., Croydon, England. Multiple-hull boat. No. 1,422,542; July 11.
- Creedy, Frederick, Ilkley, England. Dynamo-electric machinery. No. 1,418,779; June 6.
- Creel, James F., Apalachicola, Fla. Glass for measuring turpentine to be distilled from gum. No. 1,412,169; Apr. 11.
- Creel, Willie C., Hemingway, S. C. Fertilizer distributor. No. 1,430,155; Sept. 25.
- Cregor, Nathan M. (See Hoffman, C., Grigsby, and Cregor.)
- Crehan, Hubert, Pittsburgh, Pa. Bolt-finishing machine. No. 1,420,410; June 20.
- Creighton, William H. P., New Orleans, La. Means for controlling the level of liquids in evaporating apparatus. No. 1,419,824; June 13.
- Creighton, William H. P., New Orleans, La. Evaporator. No. 1,424,992; Aug. 8.
- Cremean, William F. (See Wine, W. E., and Cremean.)
- Cremean, William F., Toledo, Ohio, assignor to The Wine Railway Appliance Company. Railway car. (Reissue.) No. 15,360; May 23.
- Cremer, Frederick, assignor to E. E. McMorran and W. S. Tiffany, Chicago, Ill. Antifreezing charge for fire extinguishers. No. 1,410,735; Mar. 28.
- Crémieu, Victor, Paris, France. Cooling liquids and charging the same with gas by the use of snow-like carbonic anhydride. No. 1,421,176; June 27.
- Creplet, Léon J., Paris, France. Means for control of engines or apparatus. No. 1,412,271; Apr. 11.
- Crescent Feather Company. (See Hood, William, assignor.)

- Crescent Pump Company. (See Hatcher, William A., assignor.)
- Cresci, Anthony L., Vineland, N. J. Safety device for doors. No. 1,417,301; May 23.
- Cresci, Anthony L., Vineland, N. J. Door. No. 1,429,063; Sept. 12.
- Cresco Creamery Supply Co. (See Goldberger, Morris, assignor.)
- Crespi, Silvio B., Milan, Italy. Weaving process and loom therefor. No. 1,418,239; May 30.
- Cress, Hurve L., jr., Cincinnati, assignor of one-third to E. W. Nouse, Columbus, and one-third to R. E. Wardlow, Cincinnati, Ohio. Comb for brood chambers and shallow extracting supers. No. 1,426,551; Aug. 22.
- Cressman, Russel B. (See Bullock, Thomas H., assignor.)
- Cretors, Charles, Chicago, Ill. Roasting apparatus. No. 1,436,862; Nov. 28.
- Creveling, John L., Auburn, N. Y. Operating storage batteries, etc. No. 1,407,383; Feb. 21.
- Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,404,933; Jan. 31.
- Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulator. No. 1,412,272; Apr. 11.
- Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,412,273; Apr. 11.
- Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,412,274; Apr. 11.
- Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,412,339; Apr. 11.
- Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,417,143; May 23.
- Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,419,493; June 13.
- Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,419,494; June 13.
- Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,420,817; June 27.
- Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,420,818; June 27.
- Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,420,819; June 27.
- Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,420,820; June 27.
- Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,421,069; June 27.
- Creveling, John L., Tucson, Ariz., assignor to Gould Coupler Company. Electric regulation. No. 1,435,215; Nov. 14.
- Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,435,380; Nov. 14.
- Creveling, John L., Tucson, Ariz., assignor to Gould Coupler Company. Electric regulation. No. 1,435,701; Nov. 14.
- Creveling, John L., Tucson, Ariz., assignor to Gould Coupler Company. Electric regulation. No. 1,437,132; Nov. 28.
- Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,437,724; Dec. 5.
- Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,438,934; Dec. 12.
- Crider, Walter R., Indianapolis, Ind., assignor of one-half to H. R. Carroll, Evansville, Ind. Internal-combustion engine. No. 1,413,519; Apr. 18.
- Crighton, Peter F. (See Fraser, H. A., and Crighton.)
- Criner, Fred H., Seville, Ohio. Mold. No. 1,410,169; Mar. 21.
- Criner, Fred H., Seville, Ohio. Mold. No. 1,437,725; Dec. 5.
- Crippen, Fred N., Pasadena, Calif. Tubing bleeder. No. 1,430,217; Sept. 26.
- Crippen, George F., assignor to Crippen Manufacturing Company. Mt. Pleasant, Mich. Bean-picking machine. No. 1,413,969; Apr. 25.
- Crippen, Henry M., assignor to H. M. Crippen, W. N. Alderman, F. Scott, and H. H. Haning, Athens, Ohio. Vertical loose-leaf binding machine. No. 1,424,753; Aug. 8.
- Crippen, Herbert O., Jacksonville, Fla. Rail splke. No. 1,424,623; Aug. 1.
- Crippen Manufacturing Company. (See Crippen, George F., assignor.)
- Crippen & Reid. (See Winchester, Albert G., assignor.)
- Criqui, Charles A., Buffalo, N. Y. Power boat. No. 1,401,963; Jan. 3.
- Crisci, Arturo, New York, N. Y. Bottle stopper. No. 1,433,803; Oct. 31.
- Crisenberry, Benjohn F., and F. M. Andres, Tipton, Ind. Hot-water heater. No. 1,402,216; Jan. 3.
- Crisp, Thomas and T. F. M., assignors of one-third to J. Turner, Junction, Tex. Water motor. No. 1,415,996; May 16.
- Crisp, Thomas F. M. (See Crisp, Thomas and T. F. M.)
- first Crisp, Clarence C., Harrisburg, Pa. Lubricator. No. 1,415,997; May 16.
- Crispen, Clarence C., Harrisburg, Pa. Differential. No. 1,440,341; Dec. 26.
- Crispin, Howard S., Thermopolis, Wyo. Governor for water-driven motors. No. 1,406,936; Feb. 14.
- Criss, James O. (See Sutton, A. I., and Criss.)
- Criss, Worley N., Kittanning, Pa. Passenger's train-ticket holder. No. 1,404,192; Jan. 24.
- Crissey, Aaron H., Lansing, Mich. Farm gate. No. 1,414,863; May 2.
- Crissey, Walter H., Reading, Pa. Storage battery and making it. No. 1,415,804; May 9.
- Crissey, Walter H., assignor of three-fourths to William Knoblock and one-fourth to American Electric Storage Battery Company, Philadelphia, Pa. Detachable post for storage batteries. No. 1,403,737; Jan. 17.
- Crisson, George. (See Clark, A. B., and Crisson.)
- Crisson, George, Hackensack, N. J., assignor to American Telephone and Telegraph Company. Service-observing set. No. 1,412,103; Apr. 11.
- Crisson, George, Hoboken, N. J., assignor to American Telephone and Telegraph Company. Electron-tube repeater. No. 1,431,219; Oct. 10.
- Crist, Donald M., Santa Cruz, Calif. Producing iron. No. 1,434,484; Nov. 7.
- Crist, Firman R., Scranton, Pa. Vacuum cover. No. 1,411,323; Apr. 4.
- Critchlow, Edward C., Orcutt, Calif. Dustproof lubrication device. No. 1,419,229; June 13.
- Critchlow, Edward C., Orcutt, Calif. Pump plunger. No. 1,423,197; July 18.
- Critchlow, Edward C., Orcutt, Calif. Lubricator. No. 1,437,169; Nov. 28.
- Crites, Virgil C., Los Angeles, Calif., assignor to J. B. Chapman, Okmulgee, Okla. Tank. No. 1,430,798; Oct. 3.
- Critical Casement Window Co. (See Walker, Thomas E., assignor.)
- Critz Manufacturing Company. (See Bradford, Charles B., assignor.)
- Critz Manufacturing Company. (See Joiner, Seaborn C., assignor.)
- Croad, Robin B., and G. E. Knowles, Liverpool, England. Manufacture and production of tanning agents. No. 1,437,726; Dec. 5.
- Croasdale, John P. (See Wray, William J., assignor.)
- Croasdale, Olney, Berwyn, Pa., assignor to Pioneer Suspender Company. Suspenders. No. 1,416,335; May 16.
- Crochat, Henry. (See Colardeau, Emmanuel L. P., assignor.)
- Crocker, Irving S., Lynn, Mass., assignor to General Electric Company. Electrode. No. 1,406,542; Feb. 14.
- Crocker, James M., and W. C. Magune, Fairfield, assignors of one-third to M. Reich, Bridgeport, Conn. Guide device for boring tools. No. 1,408,802; Mar. 7.
- Crocker, Ralph R., Council Bluffs, Iowa. Packing connection. No. 1,411,205; Mar. 28.
- Crocker-Wheeler Company. (See Ward, Frederick E., assignor.)
- Crocker-Wheeler Company. (See Wheeler, Schuyler S., assignor.)
- Crocker, William C., Ealing, England. Fastener for loose sheets of paper or other material. No. 1,410,799; Mar. 28.
- Crocker, William W., Somerville, Mass. Metallic window. No. 1,405,817; Feb. 7.
- Crockett, Cyrenus W., Passaic, assignor to The Alco Deo Company, Wallington, N. J. Organic composition. No. 1,437,170; Nov. 28.
- Croft, Hiram D. (See Perkins, J. L., Delochia, and Croft.)
- Croft, Hiram D., and W. Roberts, Springfield, Mass.; said Croft assignor to said Roberts. Ratchet. No. 1,436,698; Nov. 28.
- Croft, John J., assignor to Capital City Chair Company, Atlanta, Ga. Reed furniture. No. 1,427,581; Aug. 29.
- Crogan, Charles W., Bangor, Me. Latch release for tapes. No. 1,424,085; July 25.
- Crogan, Charles W., Bangor, Me. Tapeline-case stop. No. 1,434,528; Nov. 7.
- Crogan, Charles W., Bangor, Me. Tapeline terminal. No. 1,438,903; Dec. 12.
- Croll, Albert J. (See Schulz, C. G., and Croll.)
- Croll, Paul R. (See Breyer, F. G., Croll, and Farber.)
- Crompton, Edwin, and C. L. Crooks, Pueblo, Colo. Latch. No. 1,419,230; June 13.
- Crompton, Edwin, and C. L. Crooks, Pueblo, Colo. Lock or latch. No. 1,434,370; Nov. 7.
- Crompton, Edwin, and C. L. Crooks, Pueblo, Colo. Lock or latch. No. 1,434,371; Nov. 7.
- Crompton, Edwin, and C. L. Crooks, Pueblo, Colo. Lock or latch. No. 1,434,372; Nov. 7.
- Crompton, Edwin, and C. L. Crooks, Pueblo, Colo. Lock or latch. No. 1,434,373; Nov. 7.
- Crompton, James, London, and W. Gallagher, Manchester, England. Calculating device. No. 1,424,344; Aug. 1.

- Crompton, Randolph, and W. E. Woodman, Worcester, Mass., said Woodman assignor to said Crompton. Misthreading device for weft-replenishing looms. No. 1,408,171; Feb. 28.
- Crompton, Randolph, W. E. Woodman, and R. J. Adams, Worcester, Mass.; said Woodman and Adams assignors to said Crompton. Magazine for weft-replenishing looms. No. 1,430,005; Sept. 26.
- Crompton & Knowles Loom Works. (See Bardsley, Henry, assignor.)
- Crompton & Knowles Loom Works. (See Hutchins, George F., assignor.)
- Cromwell, George O., assignor, by mesne assignments, to Ludlow Typograph Company, Chicago, Ill. Electrically heated melting pot for typograph machines. No. 1,414,689; May 2.
- Cromwell, James O., Denver, Colo. Wrench. No. 1,401,964; Jan. 3.
- Cronan, Joseph, Rose Creek, Minn. Alarm. No. 1,406,937; Feb. 14.
- Cronburg, Claude I. (See Budd, I. D., Cronburg, and Hurd.)
- Crone, Seth A., East Orange, N. J. Brake beam. No. 1,432,234; Oct. 17.
- Cronenberger, George J., assignor of one-half to H. G. Miller, Chicago, Ill. Combined kitchen table and ironing board. No. 1,415,529; May 9.
- Crook, Charles M., Chicago, Ill. Time indicator. No. 1,430,437; Sept. 26.
- Crooks, Charles L. (See Crompton, E., and Crooks.)
- Crooks, E. (See Miner, Clarence E., assignor.)
- Crooks, Rodie. See Jupp, A. E., and Crooks.)
- Crosby, Arthur P., assignor of one-half to W. T. Price, Minneapolis, Minn. Air exhaust for vapor heating systems. No. 1,425,370; Aug. 8.
- Crosby, Clarence R., Williamsfield, Ill. Machine for securing screw caps to containers. No. 1,439,070; Dec. 19.
- Crosby, Fred W., Garnett, Kans. Door-operating mechanism. No. 1,421,177; June 27.
- Crosby, Gorham, Glen Ridge, N. J., assignor to C. Blumenthal, New York, N. Y. Apparatus and method for separating matter from effluents. No. 1,407,936; Feb. 28.
- Crosby, Louis S. (See Bessette, Luke E., assignor.)
- Crosby, Raymond A., and E. L. Colson, Wauneta, Nebr. Combination steering device and gage. No. 1,405,901; Feb. 7.
- Crosby, Raymond A., and E. L. Colson, Hamlet, Nebr. Combination steering device and gage. No. 1,412,454; Apr. 11.
- Crosby Steam Gage & Valve Company. (See Williamson, Walter, assignor.)
- Crosby, Vernon E., Minneapolis, Minn. Rear-seat windshield. No. 1,405,499; Feb. 7.
- Croschaw, Ralph S., Grand Rapids, Mich. Tail light and number plate. No. 1,423,648; July 25.
- Cross, Andrew J., New York, N. Y. Multifocal ophthalmic lens. No. 1,415,318; May 9.
- Cross, Andrew J., New York, N. Y. Edge-fusing ophthalmic-lens blanks. No. 1,432,235; Oct. 17.
- Cross, Frank L., Fort Washington, N. Y., assignor to Cross Paper Feeder Company. Sheet-feeding machine. No. 1,403,541; Jan. 17.
- Cross, Guy C., Denver, Colo. Photographic-film-strip hanger. No. 1,404,276; Jan. 24.
- Cross, Guy C., Denver, Colo. Photographic film rack. No. 1,422,341; July 11.
- Cross, Harry J., et al. (See Welch, James G., assignor.)
- Cross, Harry W. (See Sprague, John V., assignor.)
- Cross, Jerome A., Fultonville, N. Y. Nail. No. 1,407,641; Feb. 21.
- Cross, Milton O., Detroit, Mich. Gear-indexing mechanism. No. 1,426,552; Aug. 22.
- Cross Paper Feeder Company. (See Cross, Frank L., assignor.)
- Cross, Robert J., Pittsburgh, Pa. Book cover and binder. No. 1,424,622; Aug. 1.
- Cross, Roy, Kansas City, Mo., assignor to Gasoline Products Company, Inc., New York, N. Y. Treating petroleum oil. No. 1,423,500; July 18.
- Cross, Roy, Kansas City, Mo., assignor to The Gasoline Products Company, Inc., New York, N. Y. Treating petroleum. No. 1,437,229; Nov. 28.
- Cross, Samuel C., Washington, D. C. Machine for storing eggs. No. 1,434,649; Nov. 7.
- Cross, Victor L., Detroit, Mich. Micrometer height gauge. No. 1,414,183; Apr. 25.
- Crossan, Patrick F., assignor of one-half to W. J. Ward, Allentown, Pa. Waffle iron. No. 1,428,476; Sept. 5.
- Crossby, William E. J., Harrow, and J. Mellor, Harlesden, England. Manufacture of cartons and similar receptacles or containers. No. 1,437,496; Dec. 5.
- Crosse, Margaret. (See Fritz-Williams, Medora A., assignor.)
- Crossen, George M. (See Reekie, J. D., and Crossen.)
- Crossen, George M., Minneapolis, Minn., assignor of thirty one-hundredths to H. E. Jones and thirty one-hundredths to H. Lyons. Furnace. No. 1,436,437; Nov. 21.
- Crosser, John L., Tulsa, Okla. Auto theft alarm. No. 1,424,993; Aug. 8.
- Crossett, John L., Hinsdale, Mass. Nonrattling shutter holder. No. 1,410,893; Mar. 28.
- Crossett, Lewis A., Co. (See McIsaac, John T., assignor.)
- Crossett, Robert J., Chicago, Ill. Car dumper. No. 1,437,962; Dec. 5.
- Crossland, Lorena, Philadelphia, Pa. Card game. No. 1,415,019; May 9.
- Crossland, William B., Philadelphia, Pa. Window refrigerator. No. 1,410,378; Mar. 21.
- Crossler, Charles A., Dayton, Wash. Sidehill-mowing machine. No. 1,426,464; Aug. 22.
- Crossley, Albert D., assignor of one-half to R. T. Bassett, Hartford, Conn. Spare-tire carrier. No. 1,422,932; July 18.
- Crossley, David, Trenton, N. J. Power press for tile, mosaic, and the like. No. 1,423,401; July 18.
- Crossley, Francis M., Redford, Mich. Switch point. No. 1,430,952; Oct. 3.
- Crossley, Frederick S. and F. W., Blackrock, Dublin, Ireland. Sectional hull construction. No. 1,418,629; June 6.
- Crossley, Frederick W. (See Crossley, Frederick S. and F. W.)
- Crossley, George C., Trenton, N. J. Excavating and loading device. No. 1,415,223; May 9.
- Crossley, Jesse D., assignor of one-half to C. F. Whitman, Detroit, Mich. Work-feeding device. No. 1,438,021; Dec. 5.
- Crossley, Kenneth I. (See Webb, W. L., and Crossley.)
- Crossley, Kenneth I., Manchester, and Wilfred Le P. Webb, Hale, England. Internal-combustion engine. No. 1,410,894; Mar. 28.
- Crossley, Kenneth I., and W. L. Webb, Worcester, England. Oil-fuel-injection device for internal-combustion engines. No. 1,419,231; June 13.
- Crossley, Kenneth I., and W. L. Webb, Openshaw, Manchester, England. Horizontal internal-combustion gas and oil engine. No. 1,425,946; Aug. 15.
- Crossley, Kenneth I., and W. Le P. Webb, Manchester, England. Internal-combustion engine. No. 1,423,085; July 18.
- Crossley, Kenneth L., and W. Le P. Webb, Manchester, England. Internal-combustion engine. No. 1,423,086; July 18.
- Crossley, Kenneth L., and W. Le P. Webb, Manchester, England. Internal-combustion engine. No. 1,423,087; July 18.
- Crossley, Kenneth L., and W. Le P. Webb, Manchester, England. Internal-combustion oil engine. No. 1,423,088; July 18.
- Crossley Motors Limited. (See Bobrovsky, Serge, assignor.)
- Crossley Motors Limited. (See Wishart, Thomas D., assignor.)
- Crossman, Frank, San Francisco, Calif. Portable burglar alarm. No. 1,440,005; Dec. 26.
- Crossman, Harry S., Dorchester, Mass. Shoe heel. No. 1,439,405; Dec. 19.
- Crossman, Louis, New York, N. Y. Undercoating composition. No. 1,425,510; Aug. 15.
- Crowwhite, Estel L., Kansas City, Mo. Portable wire-weaving machine. No. 1,431,373; Oct. 10.
- Crotto, Frank E., Dallas, Tex. Well-washing device. No. 1,427,944; Sept. 5.
- Crotty, William, Rockford, Ill. Fastener. No. 1,434,735; Nov. 7.
- Crouch, Archer P. (See Mote, Sydney C., assignor.)
- Crouch, Thomas C., assignor of one-third to C. L. Wynn and one-third to G. Boos, Elbow, Saskatchewan, Canada. Ventilator. No. 1,407,129; Feb. 21.
- Crouse, Edward V., Chicago, Ill. Snow-disposal device. No. 1,418,630; June 6.
- Crouse, Emory, Wichita, Kans. Rotary pump. No. 1,436,863; Nov. 28.
- Crouse, Emory, Wichita, Kans., assignor to The Clear Vision Pump Company. Gasoline-dispensing device. (Reissue.) No. 15,432; Aug. 22.
- Crouse, Herbert L., Washburn, and C. M. Johnson, Woodland, Me. Bark-removing machine. No. 1,438,904; Dec. 12.
- Crouse-Hinds Company. (See Bissell, Carl H., assignor.)
- Crouse-Hinds Company. (See Smith, F. C., and Stoffel, assignors.)
- Crout, Willie H., Conway, Ark. Wagon jack. No. 1,413,262; Apr. 18.
- Crow, Alfonso M., Metamora, Ill. Egg case. No. 1,439,612; Dec. 19.
- Crow, Robert D., Houston, Tex. Piston. No. 1,411,843; Apr. 4.
- Crow, Thomas. (See Scott, Douglas W., assignor.)
- Crowe, Frederick C., assignor to Variety Manufacturing Company, Yakima, Wash. Bending machine. No. 1,414,340; May 2.
- Crowe, Joseph M., Brooklyn, N. Y. Preparing a rotary gravure tone and line positive. No. 1,428,009; Sept. 5.
- Crowe Name Plate & Engraving Co. (See Hass, Gustav C., assignor.)
- Crowell, Charles H., Brooklyn, N. Y. Apparatus for manufacturing glue. No. 1,401,965; Jan. 3.
- Crowell, Charles H., Brooklyn, N. Y. Container. No. 1,430,287; Sept. 26.
- Crowell, Charles H., Brooklyn, N. Y. Shipping container. No. 1,430,288; Sept. 26.
- Crowell, Erd V., Tulsa, Okla. Oil-well-casing cementing shoe. No. 1,432,017; Oct. 17.

Alphabetical list of patentees—Continued.

- Crowell, Erd V., Tulsa, Okla. Gas-energy control for flowing oil or gas wells. No. 1,432,674; Oct. 17.
- Crowell, Erd V., Tulsa, Okla., assignor, by mesne assignments, of one-half to The Guberson Corporation. Plug. (Reissue.) No. 15,501; Dec. 5.
- Crowell, Erd V., and W. Hawkins, Tulsa, Okla. Aero-plane-wing construction. No. 1,412,455; Apr. 11.
- Crowell, Henry W., Glen Ridge, N. J. Machine for sawing vegetable ivory nuts. No. 1,409,676; Mar. 14.
- Crowell, John E., Union County, N. C. Self-aligning connecting rod. No. 1,409,931; Mar. 21.
- Crowell, John H., Tisbury, Mass. Fountain-pen pencil. No. 1,405,970; Feb. 7.
- Crowell, William D. (See Cain, Charlie L., assignor.)
- Crowell, William D. F., St. Louis, Mo. Wind shield for vehicles. No. 1,403,488; Jan. 17.
- Crowell, William D. F., St. Louis, Mo. Clear-vision windshield for vehicles. No. 1,439,949; Dec. 26.
- Crowell, William D. F., St. Louis, Mo. Clear-vision windshield. No. 1,439,950; Dec. 26.
- Crowle, William G. (See Fayle, W. H., and Crowle.)
- Crowley, Andrew J., Polson, N. Mex. Windmill. No. 1,403,234; Jan. 10.
- Crowley, John C., Cleveland, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Process and apparatus for making sheet glass. (Reissue.) No. 15,452; Sept. 12.
- Crowley, John W., Jr., Chicago, Ill. Clutch. No. 1,407,384; Feb. 21.
- Crowley, Joseph P. (See Fowle, A. E., and Crowley.)
- Crowley, Joseph P., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Apparatus for and method of drawing sheet glass. No. 1,428,533; Sept. 12.
- Crowley, Joseph P., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Method and apparatus for drawing sheet glass. No. 1,435,956; Nov. 21.
- Crowley, Joseph P., and C. A. Rowley, assignors to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Method and apparatus for producing sheet glass. No. 1,422,036; July 4.
- Crowley, Lorenzo A., Detroit, Mich. Ballot protector. No. 1,415,020; May 9.
- Crown Cork and Seal Company of Baltimore City, The. (See Angus, Donald J., assignor.)
- Crown Cork and Seal Company of Baltimore City, The. (See Derby, William V., assignor.)
- Crown Cork and Seal Company of Baltimore City, The. (See Dorman, Edgar P., assignor.)
- Crown Cork and Seal Company of Baltimore City, The. (See Lloyd, Frank L., assignor.)
- Crown Cork and Seal Company of Baltimore City, The. (See Taylor, Samuel W., assignor.)
- Crown Fruit & Extract Co. (See Jagenburg, Eugene R., assignor.)
- Crown Gas Radiator Company. (See Toles, Samuel, assignor.)
- Crown Ventilator Company, The. (See Merrill, Robert T., assignor.)
- Crowther, David, Minneapolis, Minn. Process and apparatus for destroying organisms. No. 1,413,006; Apr. 18.
- Crowther, David, Minneapolis, Minn. Device for holding hypodermic needles while sharpening the same. No. 1,426,965; Aug. 22.
- Croxton, David T. (See Greene, Stanley R., assignor.)
- Croy, William D., and J. Z. Lawson, Bluefield, W. Va. Heating and agitating tank. No. 1,411,417; Apr. 4.
- Crozier, Alfred O., New York, N. Y. Making cementitious products. No. 1,403,542; Jan. 17.
- Crozier, Alfred O., New York, N. Y. Apparatus for cutting concrete and the like. No. 1,405,671; Feb. 7.
- Crozier, Alfred O., New York, N. Y. Manufacture of hollow cementitious products. No. 1,416,691; May 23.
- Crozier, Wilmot F., Osceola, Nebr. Bottle. No. 1,424,558; Aug. 1.
- Cru Patents Corporation. (See Wenderhold, William, assignor.)
- Cruces, Samuel, and E. Lobo, Mexico. Mexico. Controlling device for carburetors. No. 1,426,259; Aug. 15.
- Crucet, Joseph M., New York, N. Y. Lamp shade. No. 1,421,415; July 4.
- Crude Oil Gas Systems Company. (See Trimborn, P. W., and Blum, assignors.)
- Cruikshank, Alexander, Clayburn, British Columbia, Canada. Pliers. No. 1,426,553; Aug. 22.
- Cruikshank, J. W., Engineering Company. (See Troutman, Frank E., assignor.)
- Cruikshank, James R., Vancouver, British Columbia, Canada. Door securer. No. 1,412,340; Apr. 11.
- Crum, Elmer E., Elton, Pa. Railway tie. No. 1,432,443; Oct. 17.
- Crum, Emanuel L., Indianapolis, Ind. Hood latch for automobiles. No. 1,416,453; May 16.
- Crum, John M., Johnstown, Pa. Electric power jack. No. 1,423,834; July 25.
- Crumley, Leonidas F., La Follette, Tenn. Transmission band. No. 1,407,385; Feb. 21.
- Crummett, Richard H., Monterey, Va. Convertible hill-side plow. No. 1,420,526; June 20.
- Crummer, Ernest R., Vancouver, British Columbia, Canada. Broom guard. No. 1,404,277; Jan. 24.
- Crupain, Morris, Newark, N. J. Toilet-article package. No. 1,436,238; Nov. 21.
- Cruse, Dr., Hans & Co. (See Simonides, Bruno, assignor.)
- Crutcher, Clarence L., Fort Worth, Tex. Pipe spear. No. 1,418,538; June 6.
- Cruttenden, Henry L., Northfield, Minn. Dental parallel-cavity former. No. 1,407,840; Feb. 28.
- Cruver Manufacturing Company. (See Keplinger, George B., assignor.)
- Cruyff, Cornelius J., and S. B. van Aalten, Amsterdam, Netherlands. Check for revolving doors. No. 1,435,517; Nov. 14.
- Cryan, William H., assignor of one-sixth to R. J. Davis, one-sixth to W. F. Fox, one-sixth to H. B. Findlay, and one-half to G. F. Verhulst, Woonsocket, R. I. Muffler cut-out. No. 1,424,624; Aug. 1.
- Cryder, James W., Philadelphia, and W. C. Hidlay, Bloomsburg, Pa. Coin wrapper. No. 1,405,296; Jan. 31.
- Cryer, Albert A., New York, N. Y., assignor to D. G. C. Trap & Valve Co., Inc. Valve. No. 1,436,438; Nov. 21.
- Crystal-on Chemical Company. (See Atwater, William B., assignor.)
- Crystal Washing Machine Company. (See Sperlich, Herman A., assignor.)
- Csanyi, Henry, New York, N. Y. Electric massage apparatus. No. 1,433,184; Oct. 24.
- Cua, Domenick M., Sandusky, Ohio. Cue holder. No. 1,416,617; May 16.
- Cubitt, Archibald S., London, England. Lamp-shade-tilting device. No. 1,430,156; Sept. 26.
- Cucchiara, Giovanni S., Needham, Mass. Nonskid appliance. No. 1,424,882; Aug. 8.
- Cuddigan, Bartholomew O., assignor to The Cuddigan-Gehr Manufacturing Company, Wadena, Minn. Potato loader. No. 1,405,297; Jan. 31.
- Cuddigan-Gehr Manufacturing Company, The. (See Cuddigan, Bartholomew O., assignor.)
- Cuddy, Fred K. (See Keck, G. E., and Cuddy.)
- Cudera, Michael, Solingen, Germany. Door lock. No. 1,413,830; Apr. 25.
- Cudlipp, A. J., et al. (See Cudlipp, George R., assignor.)
- Cudlipp, Charles W., Stony Brook, N. Y. Filing case for phonograph records. No. 1,412,456; Apr. 11.
- Cudlipp, George R., Los Angeles, assignor to A. J. Cudlipp, J. G. Coffman, G. B. Stephens, and D. L. Robinson, Los Angeles County, Calif. Sharpening device for lawn mowers. No. 1,413,216; Apr. 18.
- Cudworth, Ernest W. (See Pelsue, S. W., and Cudworth.)
- Cueny, Benjamin U., assignor to Taber-Prang Art Co., Springfield, Mass. Album or holder for photographs. No. 1,415,429; May 9.
- Cuff, Fred A., Minneapolis, Minn. Collapsible handle for tire pumps. No. 1,432,054; Oct. 17.
- Cuish, Truman A., jr., Green Bay, Wis. Couch roll. No. 1,428,760; Sept. 12.
- Culbertson, Charles B., Pasadena, Calif. Reversible plow. No. 1,427,677; Aug. 29.
- Culbertson, Edward A., Wichita, Kans. Pump. No. 1,433,677; Oct. 31.
- Cullen, Bernard P., and M. J. Wochna, Jersey City, N. J. Hand-bag catch. No. 1,422,748; July 11.
- Cullen, James K., assignor to Niles-Bement-Pond Company, New York, N. Y. Driving mechanism for wheel lathes. No. 1,424,754; Aug. 8.
- Cullen, James K., New York, N. Y., and W. T. Sears, Montclair, N. J., assignors to Niles-Bement-Pond Company, New York, N. Y. Axle-milling machine. No. 1,424,755; Aug. 8.
- Cullen, Joseph E., Midvale, Utah, assignor to United States Smelting, Refining & Mining Company. Producing arsenic. No. 1,433,533; Oct. 31.
- Cullen, Julien F., assignor to Kelly-Springfield Tire Company, Cumberland, Md. Spooling machine. No. 1,418,365; June 6.
- Cullen, Thomas, Amboy, Ill. Candle extinguisher. No. 1,425,080; Aug. 8.
- Cullerton, Patrick, Mansfield, Wash. Wire stretcher. No. 1,415,998; May 16.
- Cullin, Jasper F., assignor to W. J. Hartwig, Detroit, Mich. Machine for positioning armature windings. No. 1,402,217; Jan. 3.
- Cullison, John P., Columbus, Ohio. Valve. No. 1,430,361; Sept. 26.
- Cullman, Otto, Chicago, Ill. Pump jack. No. 1,411,418; Apr. 4.
- Cullman, Otto, Chicago, Ill. Pump jack. No. 1,414,936; May 2.
- Cullman, Otto, Chicago, Ill. Split sprocket. No. 1,431,374; Oct. 10.
- Cullomer, Frank J., Chicago, Ill. Swimming device. No. 1,435,588; Nov. 14.
- Culmer, Claude C. J. (See Herbst, A. W., and Culmer.)
- Culmer, Harry H., Joliet, Ill. Dye and producing dyes. No. 1,409,083; Mar. 7.
- Culmer, Harry H., Independence, Kans. Hydrocarbon product and making same. No. 1,430,538; Oct. 3.
- Culp, Jay S., Cleveland, Ohio, assignor to The Culp Steel Products Company. Demountable rim for vehicle wheels. No. 1,433,804; Oct. 31.
- Culp Steel Products Company, The. (See Culp, Jay S., assignor.)
- Culver, Albert V., and W. A. Waddell, Frankfort, Ind. Weather strip. No. 1,424,283; Aug. 1.
- Culver, Charles A., Beloit, Wis. Photographic receiving apparatus. No. 1,406,445; Feb. 14.
- Culver, Lewis O., West Pittston, Pa. Jar-top fastener. No. 1,436,576; Nov. 21.

Alphabetical list of patentees—Continued.

- Cumfer, Harry A., Chicago, Ill., and A. D. Stewart, Dayton, Ohio. Plaster-receiving board. No. 1,429,226; Sept. 19.
- Cummings, Andrew S., South Tacoma, Wash. Combined lock and alarm. No. 1,423,554; July 25.
- Cummings, Arthur M., Aberdeen, Md. Locking device for automobile wheels. (Reissue.) No. 15,428; Aug. 8.
- Cummings, Arthur W., Rockford, Ill. Watering tank and heater. No. 1,407,988; Feb. 28.
- Cummings, Carl M., Dillon, Colo. Attachment for automobile chains. No. 1,410,170; Mar. 21.
- Cummings, Charles A., Battle Creek, Mich. Meter pit box. No. 1,432,236; Oct. 17.
- Cummings, Charles A., assignor to Battle Creek Box Company, Battle Creek, Mich. Crating or packing means. No. 1,406,615; Feb. 14.
- Cummings, Elmer D., Washington, D. C. Pawl and ratchet. No. 1,412,013; Apr. 4.
- Cummings, Elmore D., Washington, D. C. Railway search-light tower. No. 1,409,834; Mar. 14.
- Cummings, Everett C., Electra, Tex. Pump. No. 1,424,004; July 25.
- Cummings, Frank D., Los Angeles, Calif. Illuminated advertising device. No. 1,427,678; Aug. 29.
- Cummings, George C., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,409,362; Mar. 14.
- Cummings, George C., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,426,821; Aug. 22.
- Cummings, Norman A., Detroit, Mich. Gang plow for tractors. No. 1,425,947; Aug. 15.
- Cummings, Roy E., and J. V. Sullivan, Eastport, Me. Combination window screen, window sash, and ventilator. No. 1,436,864; Nov. 28.
- Cummings, William F., Chicago, Ill. Signal lamp. No. 1,437,835; Dec. 5.
- Cummings, William J. (See Blackburn, H. F., and Cummings.)
- Cummings, William J., Breckenridge, Tex. Automatic gas-release packer. No. 1,412,275; Apr. 11.
- Cummings, William W., Woburn, Mass. Fluid-mixing device. No. 1,421,130; June 27.
- Cummins, Arthur F. (See Baker, R. E., Ford, and Cummins.)
- Cumner, Matthew S., New York, N. Y. Vise. No. 1,406,981; Feb. 21.
- Cumner, Matthew S., New York, N. Y., and F. W. Geissenhainer, Freehold, N. J., assignors to Nestor Manufacturing Company, Inc., New York, N. Y. Screw-thread-grinding machine. No. 1,412,778; Apr. 11.
- Cumont, Fernand, assignor to La Société d'ite S. T. A. B. (Système de Traction Auto-Regulateur), Paris, France. Arrangement for starting and regulating direct-current electric motors. No. 1,411,419; Apr. 4.
- Cumpston, James H., Dallas, Tex. Gun-cleaning device. No. 1,427,582; Aug. 29.
- Cundall, Robert N., Blasdel, assignor to B. G. Wright & Co., Buffalo, N. Y. Bottle-capping device. No. 1,403,941; Jan. 17.
- Cunha, John V., Berkeley, assignor to The Paraffine Companies, Inc., San Francisco, Calif. Saturating apparatus. No. 1,435,810; Nov. 14.
- Cunliffe, Edward T., Audubon, N. J., assignor to Sun Shipbuilding Company, Chester, Pa. Steam-engine valve mechanism. No. 1,419,362; June 13.
- Cunningham, Alexander, Brooklyn, N. Y. Telegraph. No. 1,434,283; Oct. 31.
- Cunningham, Allan, Seattle, Wash. Towing machine and towing. No. 1,414,724; May 2.
- Cunningham, Bruce A., Hackensack, N. J. Driver's license holder. No. 1,408,566; Mar. 7.
- Cunningham, Charles A., Alvarado, A. Christensen, Alameda, and F. W. Bartlett, Berkeley, assignors to Continental Salt and Chemical Company, San Francisco, Calif. Saltharvester. No. 1,407,189; Feb. 21.
- Cunningham, Elmer T. (See Danielson, Ernest G., assignor.)
- Cunningham, Emory L., Sikeston, Mo. Faucet valve. No. 1,421,765; July 4.
- Cunningham, John J., Glens Falls, N. Y. Producing wood flour. No. 1,406,938; Feb. 14.
- Cunningham, Martin G., Wheeling, W. Va. Tent. No. 1,411,711; Apr. 4.
- Cunningham, Orin D., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Method and apparatus for mixing solid materials with liquids. No. 1,422,421; July 11.
- Cunningham, Patrick F., Chicago, Ill. Locomotive step. No. 1,409,677; Mar. 14.
- Cunningham, Samuel, Newton Highlands, assignor to The William Carter Company, Needham Heights, Mass. Infant's band. No. 1,413,459; Apr. 18.
- Cunningham Springless Shade Company. (See Daniel, Cecil A., assignor.)
- Cunningham, Thomas A., assignor to Q. R. S. Music Company, Chicago, Ill. Spool flange. No. 1,404,934; Jan. 31.
- Cuno, Charles E., Meriden, Conn. Switch. No. 1,429,326; Sept. 19.
- Cuno, Charles H., assignor to The Cuno Engineering Corporation, Meriden, Conn. Electric switch for winding drums. No. 1,422,180; July 11.
- Cuno, Charles H., assignor to The Cuno Engineering Corporation, Meriden, Conn. Electric switch and stop for winding drums. No. 1,422,181; July 11.
- Cuno Engineering Corporation, The. (See Cuno, Charles H., assignor.)
- Cuntala, Pal, Carteret, N. J. Splines. No. 1,435,811; Nov. 14.
- Cuntz, Hermann F., Hartford, Conn., assignor to American Radium Company, New York, N. Y. Indicator and dial for watches and like articles. No. 1,413,971; Apr. 25.
- Cuntz, Hermann F., Hartford, Conn., assignor to American Radium Company, New York, N. Y. Dial and marking for watches and like articles. No. 1,414,628; May 2.
- Cuntz, Hermann F., Hartford, Conn., assignor to American Radium Company, New York, N. Y. Hand and indicator for watches and like articles. No. 1,415,158; May 9.
- Cuntz, Hermann F., Hartford, Conn., assignor to American Radium Company, New York, N. Y. Hand and indicator for watches and like articles. No. 1,416,176; May 16.
- Cuozzo, George, Bangor, Me. Concrete pipe or culvert. No. 1,413,008; Apr. 18.
- Cuozzo, George, Bangor, Me. Mold. No. 1,427,945; Sept. 5.
- Cuppage, Edmund J. (See Siemann, F., and Cuppage.)
- Cuppatt, William B., Piqua, assignor of one-half to K. B. Backman, Tippecanoe City, Ohio. Machine for forming ply-wood products. No. 1,403,487; Jan. 17.
- Cupples, Frank L., Natick, Mass. Bag-holding table. No. 1,431,726; Oct. 10.
- Cupples, Samuel, Envelope Company, et al. (See Levine, Harry, assignor.)
- Cupples, Samuel, Envelope Company. (See Scudder, C. R., and Huguélet, assignors.)
- Curtman, Frederick L. (See Leet, Theron H., assignor.)
- Curle, Maurice, and M. E. Varinios, Paris, France. Apparatus for the production of luminous images and the like. No. 1,418,240; May 30.
- Curioni, Aldo, assignor of one-half to Jos. Armieri & Co., Brooklyn, N. Y. Transmission mechanism. No. 1,413,970; Apr. 25.
- Curle, George L., Minneapolis, Minn. Means for casting italic type. No. 1,427,363; Aug. 29.
- Curme, George O., Jr., Pittsburgh, Pa., assignor to Union Carbide Company, New York, N. Y. Treating gaseous hydrocarbon mixtures. No. 1,422,182; July 11.
- Curme, George O., Jr., Pittsburgh, Pa., assignor to Union Carbide Company, New York, N. Y. Treating gaseous mixtures. No. 1,422,183; July 11.
- Curme, George O., Jr., Pittsburgh, Pa., assignor, by mesne assignments, to Union Carbide Company, New York, N. Y. Separating ethylene and other components from gaseous mixtures containing the same. No. 1,422,184; July 11.
- Curme, George O., Jr., Pittsburgh, Pa., assignor to Carbide & Carbon Chemicals Corporation. Chlorinating gaseous hydrocarbons and recovering products therefrom. No. 1,422,838; July 18.
- Curney, Alfred S., Chicago, Ill. Automatic-sprinkler-head check. No. 1,432,386; Oct. 17.
- Curran, Edmund, Boston, Mass. Automatic drill and wire gauge. No. 1,434,101; Oct. 31.
- Curran, Oscar R., assignor of one-fourth to W. G. Merrifield and one-fourth to M. L. Merrifield, Garden City, Mo. Apparatus for icing refrigerators and ice boxes. No. 1,427,445; Aug. 29.
- Curran, Timothy. (See Mellett, L., and Curran.)
- Curren, Harold S., et al. (See Lewis, Robert W., assignor.)
- Currey, Dannel M., Chicago, Ill. Can holder. No. 1,437,171; Nov. 28.
- Currie, Emerson, assignor of one-half to A. E. Hughes and one-half to F. T. Hughes, Los Angeles, Calif. Engine ventilator. No. 1,420,411; June 20.
- Currie, Jasper J., assignor of one-third to O. B. Middlebrook and one-third to Harry Hulbert, Detroit, Mich. Safety razor. No. 1,409,999; Mar. 21.
- Currie, John H. (See Thompson, G. H., and Currie.)
- Currie, John H., Webster, Mass. Tapeline holder. No. 1,408,347; Feb. 28.
- Currie, Rufus D., Dayton, Ohio. Automobile lock. No. 1,439,150; Dec. 19.
- Currie, Thomas D., assignor to J. Casello, Port Huron, Mich. Disk-record shipper. No. 1,406,939; Feb. 14.
- Currier, Charles H., assignor to Drying Systems, Inc., Chicago, Ill. Drying means. No. 1,435,152; Nov. 14.
- Currier, Edith M. (See Burk, M. H., and Currier.)
- Currier, Edwin S., Peninsula, Ohio. Wire connector. No. 1,404,377; Jan. 24.
- Currier, Frank B., Newark, N. J. Spade. No. 1,411,166; Mar. 28.
- Currier, Henry C., Millers Falls, Mass. Snubbing machine. No. 1,429,930; Sept. 26.
- Currier, Hiram D., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Trunk circuit with instantaneous disconnect and recall. No. 1,428,761; Sept. 12.
- Currier, Hiram D., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,428,762; Sept. 12.

Alphabetical list of patentees—Continued.

- Currier, Hiram D., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Telephone system with flickering recall. No. 1,438,170; Dec. 12.
- Currier, Hiram D., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Secret-service cord circuits. No. 1,439,071; Dec. 19.
- Currier, Hiram D., Chicago, and H. H. Ide, La Grange, assignors to Kellogg Switchboard Supply Company, Chicago, Ill. Automatic test and ringing circuits. (Reissue.) No. 15,277; Jan. 31.
- Curry, Malcolm, Scarsdale, N. Y., and S. H. Barnum, Hamden, Conn. Observation window for furnaces. No. 1,417,976; May 30.
- Curry, Robert, New York, N. Y. Resilient tire. No. 1,421,917; July 4.
- Curry, Warren W. (See Darling, J., and Curry.)
- Curtain Supply Company. (See Palt, Walter E., assignor.)
- Curtin, David F., Chicago, Ill. Sanitary paper cup. No. 1,413,460; Apr. 18.
- Curtin, David F., Chicago, Ill. Blank for paper cups. (Reissue.) No. 15,381; June 13.
- Curtin, David F., Chicago, Ill. Sanitary liner container. No. 1,437,497; Dec. 5.
- Curtin, Thomas A., Marcellus, N. Y., assignor to International Harvester Company. Clamp for riding-cultivator shanks. No. 1,404,433; Jan. 24.
- Curtis, Alexander R., Minneapolis, Minn. Camping trailer. No. 1,407,259; Feb. 21.
- Curtis, Arthur R. (See Benjamin, D. H., and Curtis.)
- Curtis, Arthur R., Cleveland, Ohio. Washer drive mechanism. No. 1,429,064; Sept. 12.
- Curtis, Austen M., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Static reducer for wireless signals. No. 1,415,999; May 16.
- Curtis, Benjamin D., Philadelphia, Pa. Lumber drier. No. 1,407,786; Feb. 28.
- Curtis, Edmund A., assignor to Curtis Engineering Corporation, Chicago, Ill. Spring suspension. No. 1,425,839; Aug. 15.
- Curtis, Edward C., Eau Claire, Wis. Automatically-controlled flush valve. No. 1,412,925; Apr. 18.
- Curtis, Egbert H., Spring Valley, N. Y. Electrical conduit system. No. 1,423,309; July 18.
- Curtis Engineering Corporation. (See Curtis, Edmund A., assignor.)
- Curtis, George L., Pocatello, Idaho. Gate-operating mechanism. No. 1,439,951; Dec. 26.
- Curtis, Harry A. (See Runge, W., and Curtis.)
- Curtis, Harry L., Oshkosh, Wis. Snow remover. No. 1,413,007; Apr. 18.
- Curtis, Jesse T., Bement, Ill. Rim-lug shim. No. 1,425,511; Aug. 15.
- Curtis, John H., Long Beach, Calif. Cooking utensil. No. 1,408,692; Mar. 7.
- Curtis, Lewis E., Warren, Ohio, assignor to Milwaukee Corrugating Company, Greenfield, Wis. Plaster terminal. No. 1,419,232; June 13.
- Curtis, Randall T., Los Angeles, Calif. Frictionless track link. No. 1,404,740; Jan. 31.
- Curtis, Thomas J., Los Angeles, Calif. Damper. No. 1,434,529; Nov. 7.
- Curtis, Thomas S., assignor to Universal Optical Corporation, Providence, R. I. Furnace. No. 1,405,762; Feb. 7.
- Curtis, Thomas S., assignor to Universal Optical Corporation, Providence, R. I. Electric furnace. No. 1,433,448; Oct. 24.
- Curtis & Co. Mfg. Co. (See Ackerman, Frank, assignor.)
- Curtis & Co. Mfg. Co. (See Steedman, George F., assignor.)
- Curtiss Aeroplane and Motor Corporation. (See Christen, John A., assignor.)
- Curtiss Aeroplane & Motor Corporation. (See Curtiss, Glenn H., assignor.)
- Curtiss Aeroplane and Motor Corporation. (See Dalton, Nelson W., assignor.)
- Curtiss Aeroplane and Motor Corporation. (See Gilmore, W. L., and Wright, assignors.)
- Curtiss Aeroplane and Motor Corporation. (See Gilmore, William L., assignor.)
- Curtiss Aeroplane and Motor Corporation. (See Kirkham, C. B., and Thurston, assignors.)
- Curtiss Aeroplane and Motor Corporation. (See Kirkham, Charles B., assignor.)
- Curtiss Aeroplane and Motor Corporation. (See Meade, Joseph F., assignor.)
- Curtiss Aeroplane and Motor Corporation. (See Musson, Edward T., assignor.)
- Curtiss Aeroplane and Motor Corporation. (See Porter, Finley R., assignor.)
- Curtiss Aeroplane & Motor Corporation. (See Zahm, Albert F., assignor.)
- Curtiss, Almon W., Cortland, N. Y. Folding top for vehicles. No. 1,403,738; Jan. 17.
- Curtiss, Charles E., Clinton, Wis. Wheel hoe. No. 1,428,581; Sept. 12.
- Curtiss, Charles E., Clinton, Wis. Cultivator blade. No. 1,438,583; Dec. 12.
- Curtiss, George E. (See Smith C. F., and Curtiss.)
- Curtiss, George E., assignor to Landers, Frary & Clark, New Britain, Conn. Handle. No. 1,405,971; Feb. 7.
- Curtiss, Glenn H., Garden City, N. Y. Camp car. No. 1,437,172; Nov. 28.
- Curtiss, Glenn H., Garden City, assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Motive-power system for aircraft. No. 1,418,131; May 30.
- Curtiss, Glenn H., Hammondsport, N. Y., assignor to Curtiss Aeroplane & Motor Corporation. Hydroaeroplane. No. 1,420,609; June 20.
- Curtiss, Glenn H., assignor to Curtiss Aeroplane & Motor Corporation, Garden City, N. Y. Getting a hydroaeroplane off the water into the air. No. 1,420,610; June 20.
- Curvin, Frank G. (See Oatman, D. C., and Curvin.)
- Cusack, Thos., Company. (See Ehnborn, Charles B., assignor.)
- Cusack, Thos., Company. (See Kelly, James J., assignor.)
- Cushing, Frank M. and W. L. B., Los Angeles, Calif. Electric spot-welding machine. No. 1,435,812; Nov. 14.
- Cushing, John F., Chicago, Ill. Cutter for hydraulic dredges. No. 1,436,015; Nov. 21.
- Cushing, John F., assignor to Great Lakes Dredge & Dock Company, Chicago, Ill. Cofferdam construction. No. 1,437,044; Nov. 28.
- Cushing, Samuel J., Chelsea, Mass. Tool holder. No. 1,413,101; Apr. 18.
- Cushing, William C., Tulsa, Okla. Oil lift. No. 1,402,218; Jan. 3.
- Cushing, William L. B. (See Cushing, Frank M. and W. L. B.)
- Cushman, Allerton S., Washington, D. C. Producing color effects. No. 1,423,089; July 18.
- Cushman, Everett B., Topeka, Kans., assignor to Bean Spray Pump Co., San Jose, Calif. Water cooler. No. 1,404,095; Jan. 17.
- Cushman, Everett E., assignor to The Pierson Manufacturing Company, Topeka, Kans. Radiator. No. 1,417,037; May 23.
- Cusick, Hyland L., Pittsburgh, Pa. Rule holder. No. 1,403,942; Jan. 17.
- Cusick, Hyland L., Pittsburgh, Pa. Automatic weather strip. No. 1,434,530; Nov. 7.
- Custer, Burr, Marion, Ind. Attachment for windshields for automobiles. No. 1,426,716; Aug. 22.
- Custer, Herman, assignor to Custer Manufacturing Company, Stoyestown, Pa. Filling device and indicator. No. 1,420,624; June 27.
- Custer, Louis R., Southmont Borough, Pa. Ingot mold. No. 1,409,084; Mar. 7.
- Custer Manufacturing Company. (See Custer, Herman, assignor.)
- Custer, Peter A., Jacksonville, Fla. Differential. No. 1,406,446; Feb. 14.
- Cuthbert, John, Company. (See Cuthbert, John, assignor.)
- Cuthbert, John, assignor to John Cuthbert Company, Chicago, Ill. Electric socket. No. 1,404,344; Jan. 24.
- Cuthbert, Robert F., assignor to Theo. Tiedeman & Sons, Inc., New York, N. Y. Box for garments. No. 1,417,144; May 23.
- Cuthbert, Watson, St. Catharines, Ontario, Canada. Broom. No. 1,410,284; Mar. 21.
- Cutler, Arthur E., Somerville, assignor to The Ashton Valve Company, Boston, Mass. Pressure gauge. No. 1,416,794; May 23.
- Cutler-Hammer Mfg. Co., The. (See Coulter, Leonard P., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Deucher, Charles A., assignor.)
- Cutler-Hammer Mfg. Co. (See Evans, Clarence T., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Fernow, Bernard E., Jr., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Henderson, Clark T., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Horton, Albert J., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Hunter, Richard B., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Klein, Charles J., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Lightfoot, Edwin N., assignor.)
- Cutler-Hammer Mfg. Co. (See Meuer, George J., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Meyer, Friedrich W., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Mortensen, Niels L., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Oberschmidt, Frederick H., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Packard, Horace N., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Radley, Guy R., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Reed, Harrison P., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Reisbach, Gustav R., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Re Qua, Frederick L., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Richardson, Linwood T., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Rodman, Thomas H., assignor.)

- Cutler-Hammer Mfg. Co., The. (See Seeger, Edwin W., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Simon, Arthur, assignor.)
- Cutler-Hammer Mfg. Co., The. (See Stevens, Harold W., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Stevens, William C., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Stockle, Erwin R., assignor.)
- Cutler-Hammer Mfg. Co. (See Wilson, John C., assignor.)
- Cutter, Joseph W., Rochester, N. Y. Mail chute. No. 1,413,902; Apr. 25.
- Cutright Sharps Company, The. (See Wade, Harry M., assignor.)
- Cutrona, Dominic J., R. B. McCann, and D. W. Bissell, Buffalo, assignors to National Aniline and Chemical Company, Inc., New York, N. Y. Purification of pyrogallol. No. 1,434,593; Nov. 7.
- Cutshall, Robert J., Mechanicsburg, Ill. Burglar alarm. No. 1,411,167; Mar. 28.
- Cutsinger, T. H. (See Lawlor, James M., assignor.)
- Cutter, Edmund I., Cincinnati, assignor to The American Laundry Machinery Company, Norwood, Ohio. Drying tumbler. No. 1,424,994; Aug. 8.
- Cutter Electrical and Manufacturing Company, The. (See Eastburn, Thomas B., assignor.)
- Cutting, Fulton, Tuxedo Park, N. Y., and B. Washington, Cambridge, Mass. Alternating-current generator. No. 1,435,813; Nov. 14.
- Cuttle, Francis, assignor of one-half to F. Stebler, Riverside, Calif. Apparatus for removing objects from a liquid body. No. 1,412,230; Apr. 11.
- Cutts, John, and W. C. Gilott, Nottingham, England. Fluid-pressure gauge. No. 1,406,616; Feb. 14.
- Cuyahoga Parts Company, The. (See Bellar, Charles J., assignor.)
- Cvetkovich, Marko, Girard, Ohio. Reinforced-concrete column. No. 1,436,577; Nov. 21.
- Cyclone Fence Company. (See Harter, Noah S., assignor.)
- Cyclone Manufacturing Company, The. (See Faust, E. C., Speicher, and Ullom, assignors.)
- Cyclone Manufacturing Company, The. (See Faust, Elroy C., assignor.)
- Cyclone Manufacturing Company, The. (See Ullom, Ralph B., assignor.)
- Cyrenius, Lloyd W., New York, N. Y. Ampullar container for liquids or semisolids. No. 1,434,531; Nov. 7.
- Cyrus, Thomas H., assignor of one-half to G. W. Goforth, Covelo, Calif. Jack. No. 1,415,805; May 9.
- Czarczynski, Edward S., Buffalo, N. Y. Vehicle fender. No. 1,419,959; June 20.
- Czarnecki, Boleslaw V., Schenectady, N. Y. Drinking-glass holder. No. 1,422,676; July 11.
- Czegka, Victor H., Washington, D. C., assignor to Aero Tank Machine Gun Company, Inc. Centrifugal gun. No. 1,404,378; Jan. 24.
- Czegka, Victor H., assignor to United States Ordnance Company, Washington, D. C. Gun. No. 1,413,903; Apr. 25.
- Czeperko, George, Unity Station, Pa. Sunken-ship-indicating device. No. 1,416,336; May 16.
- Czerny, Ludwig. (See Springfield, O., and Czerny.)
- D-G Storage Battery Company. (See Gardiner, William, assignor.)
- D. G. C. Trap & Valve Co. (See Cryer, Albert A., assignor.)
- D. G. C. Trap & Valve Co. (See Skiffington, William P., assignor.)
- D & M Autoparts Co. (See Doan, H. C., and Marson, assignors.)
- D. P. Company. (See Gamage, Harry C., assignor.)
- D & W Specialty Company. (See Deamer, Paul E., assignor.)
- Dabney, Lillian M., Rosedale, Kans. Gauge for marking and cutting strips. No. 1,427,266; Aug. 29.
- Da Costa, Arthur V., Providence, R. I. Combination steam and internal-combustion engine. No. 1,433,185; Oct. 24.
- Da Cruz, Julio L. V., Newcastle-upon-Tyne, England. Magnetometer for measuring weak magnetic fields. No. 1,417,803; May 30.
- Dadant, Henry C., Hamilton, Ill. Reinforcement for bee combs. No. 1,412,457; Apr. 11.
- Dadisman, Harry. (See Hillman, E. B., Kimber, and Dadisman.)
- D'Adrian, A. L. Duval, Chemical Company. (See d'Adrian, Alexander L. D., assignor.)
- D'Adrian, Alexander L. D., Washington, Pa. Process of and mixture for making glass. No. 1,430,725; Oct. 3.
- D'Adrian, Alexander L. D., Washington, Pa., assignor to A. L. Duval d'Adrian Chemical Company, Alton, Ill. Article of fused metallic oxide and producing the same. No. 1,430,724; Oct. 3.
- D'Adrian, Alexander L. D., Washington, Pa., assignor to B. F. Drakenfeld & Co., Inc., New York, N. Y. Recovering metals. No. 1,434,485; Nov. 7.
- D'Adrian, Alexander L. D., Washington, Pa., assignor to B. F. Drakenfeld & Co., Inc., New York, N. Y. Recovering metals. No. 1,434,486; Nov. 7.
- Daehlin, Alf H., Woodford, Wis. Hay loader. No. 1,413,009; Apr. 18.
- Daemen, Viktor, Frankfurt-on-the-Main, Germany. Calculating device. No. 1,433,186; Oct. 24.
- Daemicke, Paul J., Company. (See Huening, William T., assignor.)
- Dages, Louis P., assignor of one-half to L. F. Revell, Baltimore, Md. Lock. No. 1,417,038; May 23.
- Daggett, Charles F., jr., Detroit, Mich. Coupling. No. 1,431,290; Oct. 10.
- Daggett, George W., North Girard, Pa. Lighting system. No. 1,415,159; May 9.
- Daggett, William F., Chicago, Ill. Hub for loose pulleys, clutches, hanger bearings, and the like. No. 1,429,065; Sept. 12.
- Dahl, Conrad, Chicago, Ill. Occupant-operated vehicle. No. 1,412,276; Apr. 11.
- Dahl, Gust J., Spuhn Island, Alaska. Knockdown revolving table. No. 1,428,275; Sept. 5.
- Dahl, Harry M., Yoakum, Tex. Oil burner. No. 1,408,271; Feb. 28.
- Dahl, Jack F. (See Andrick, W. P., and Dahl.)
- Dahl, Palmer S., Everett, Wash. Pin. No. 1,405,500; Feb. 7.
- Dahl, Phillip, Volga, S. Dak. Holder. No. 1,436,484; Nov. 21.
- Dahl, Sigvert S., Virginia, Minn. Metal telephone-directory hanger. No. 1,405,298; Jan. 31.
- Dahl, Thure, New York, N. Y., assignor to Lightoiler Company. Lighting fixture. No. 1,417,145; May 23.
- Dahlberg, Arthur O., Madison, Wis. Fountain pen. No. 1,419,026; June 6.
- Dahlheim, Ernest F., and W. S. Hulet, Minot, N. Dak. Sound-deadening device for phonograph reproducers. No. 1,414,937; May 2.
- Dahlström, Ernst R., assignor to Aktiebolaget Formator, Stockholm, Sweden. Self-closing screw-cutting tap. No. 1,432,018; Oct. 17.
- Dahmen, Charles, Closter, N. J., assignor to S. Zinn, Inc., New York, N. Y. Hand-bag frame, toilet article, and vanity case. No. 1,404,379; Jan. 24.
- Dahmer, John W., Festus, Mo. Vegetable slicer. No. 1,430,289; Sept. 26.
- Daignault, Albert, St. Mathias, Quebec, assignor to Elzéar Doré, Laprairie, Quebec, Canada. Blower. No. 1,431,780; Oct. 10.
- Dail Steel Products Company. (See Palmer, George H., assignor.)
- Dailey, Charles E. and S. C., Reedley, Calif. Air filter. No. 1,439,151; Dec. 19.
- Dailey, Florence C., et al. (See Adams, Frank A., assignor.)
- Dailey, Samuel C. (See Dailey, Charles E. and S. C.)
- Dailey, William J. F., Ridgewood, N. J., assignor of one-half to P. J. Watrous, Pasadena, Calif. Razor strop. No. 1,407,190; Feb. 21.
- Daily, Earl L., Mount Washington, assignor to Hempy-Cooper Manufacturing Company, Kansas City, Mo. Babbitting jig. No. 1,438,637; Dec. 12.
- Daily, Otto, Logan, Kans. Sweep-rake cleaner. No. 1,414,071; Apr. 25.
- Dain, Joseph, deceased, by J. Dain, Jr., administrator, Moline, Ill., assignor to The Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Hay loader. No. 1,411,958; Apr. 4.
- Dain, Joseph, assignor to Deere and Company, Moline, Ill. Variable-speed-transmission mechanism. No. 1,413,217; Apr. 18.
- Dain, Joseph, Jr., administrator. (See Dain, Joseph.)
- Dain Manufacturing Company of Iowa, The. (See Bowers, Robert R., assignor.)
- Dain Manufacturing Company of Iowa, The. (See Dain, Joseph, assignor.)
- D'Aiuto, Carl, Cleveland, Ohio. Resilient vehicle tire. No. 1,432,158; Oct. 17.
- D'Aix, Frederic C. L. (See Wilcox, Henry M., assignor.)
- Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Elastic-fluid turbine. No. 1,402,053; Jan. 3.
- Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Headlight and number mark. No. 1,402,054; Jan. 3.
- Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Oiling device. No. 1,402,055; Jan. 3.
- Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Shaft bearing. No. 1,418,366; June 6.
- Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Bearing for steam turbines. No. 1,421,918; July 4.
- Dake, Charles W., assignor to The Pyle National Company, Chicago, Ill. Turbine. No. 1,429,570; Sept. 19.
- Dake, Charles W., assignor to The Pyle National Company, Chicago, Ill. Turbine. No. 1,431,636; Oct. 10.
- Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Governor weight for steam turbines. No. 1,432,444; Oct. 17.
- Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Safety device for steam turbines. No. 1,433,534; Oct. 31.
- Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Headlight. No. 1,433,703; Oct. 31.
- Dakin, Francis J. V., et al. (See Cole, Albert L., assignor.)
- Dakin, Herbert E., Limited. (See Dakin, Herbert E., assignor.)

Alphabetical list of patentees—Continued.

- Dakin, Herbert E., assignor to Barnett Samuel and Sons, Limited, London, England. Talking-machine stop. No. 1,409,085; Mar. 7.
- Dakin, Herbert E., assignor to Herbert E. Dakin, Limited, London, England. Code locking device for the steering pillars of cycles. No. 1,411,168; Mar. 28.
- Dalbey, Charles N., assignor of one-half to C. J. Dalbey, Wheatland, Calif. Automobile horn. No. 1,427,072; Aug. 22.
- Dalbey, Clarence J. (See Dalbey, Charles N., assignor.)
- Dale, Frank, Oilfields, Calif. Fruit harvester. No. 1,410,379; Mar. 21.
- Dale, Sylvester F., Williamsport, assignor to Center-Fed Spring Insert Co., Ridgway, Pa. Spring structure. No. 1,435,814; Nov. 14.
- Dales, Benton. (See Evans, W. W., and Dales.)
- Dales, Benton, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Ink. No. 1,404,345; Jan. 24.
- Dales, William R., Philadelphia, Pa. Tobacco pipe. No. 1,429,022; Sept. 12.
- Daley, Gustav J. (See Franklin, E. A., and Daley.)
- Dalgarn, Talmadge M. (See Harris, J. D., and Dalgarn.)
- Dalitz, Harry, assignor to J. C. Hipp, Cleveland, Ohio. Gripping and pulling tool. No. 1,422,185; July 11.
- Dalitz, Harry, assignor to The C. and D. Mfg. Company, Cleveland, Ohio. Sink strainer. No. 1,438,364; Dec. 12.
- D'Allesina, John, London, England. Carburetor. No. 1,432,675; Oct. 17.
- Dallimore, George W., Oakland, Calif. Railway tie. No. 1,427,522; Aug. 29.
- Dallmeyer, Thomas D., Pittsburgh, and G. G. Brown and J. R. Schultz, Oakmont, Pa., assignors to Valley Forging Company, Oakmont, Pa. Forming metal-hubbed articles. No. 1,410,093; Mar. 21.
- Dallwig, Paul G., Chicago, Ill. Doll. No. 1,413,263; Apr. 18.
- Dallwig, Paul G., Chicago, Ill. Doll. No. 1,413,264; Apr. 18.
- Dalrymple, Philip W., Baltimore, Md., assignor to L. K. Davis, Washington, D. C. Tread. (Reissue.) No. 1,548; Sept. 26.
- Dalrymple, Philip W., Baltimore, Md., assignor to L. K. Davis, Washington, D. C. Endless-track vehicle. No. 1,431,375; Oct. 10.
- Dalrymple, William P., assignor to Chicago Steel Wheel Co., Chicago, Ill. Wheel. No. 1,418,069; May 30.
- Dalton Adding Machine Company, The. (See Landsiedel, Harry, assignor.)
- Dalton, Charles J., New York, N. Y. Oversized plural truck tire. No. 1,405,972; Feb. 7.
- Dalton, Charles J., New York, N. Y. Oversized truck tire. No. 1,405,973; Feb. 7.
- Dalton, Edmund G., Providence, R. I. Sifter. No. 1,420,412; June 20.
- Dalton, Hubert, New York, N. Y. Gear guard. No. 1,408,866; Mar. 7.
- Dalton, J. L. (See Allyn, Leonard E., assignor.)
- Dalton, Nelson W., Garden City, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Control for aircraft. No. 1,406,617; Feb. 14.
- Dalton, Nelson W., Garden City, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Automatic safety device for aeronautical motors. No. 1,437,466; Dec. 5.
- Dalton, Richard F., Ansonia, Conn. Apparatus for polishing metal articles. No. 1,430,886; Oct. 3.
- Daly, Alvin D., Tucson, Ariz. Gate for covered vehicles. No. 1,427,195; Aug. 29.
- Daly, Ber J., administrator. (See Monahan, Louis J.)
- Daly, Christopher M., Bridgeport, Conn. Fuse. No. 1,436,239; Nov. 21.
- Daly, Hubert B. (See Tasso, C., and Daly.)
- Daly, Michael E., Cincinnati, assignor to The American Laundry Machinery Company, Norwood, Ohio. Latch bolt. No. 1,431,571; Oct. 10.
- Daly, Webster J., Los Angeles, Calif. Automatic syringe filler. No. 1,408,272; Feb. 28.
- Dalyai, Mike, Caretta, W. Va. Dirigible turning headlight for automobiles. No. 1,438,520; Dec. 12.
- Dalzell, Charles B. (See Feldmeier, H., and Dalzell.)
- Dam, Andrew C., New York, N. Y. Demountable rim. No. 1,408,172; Feb. 28.
- Dam, Andrew C., New York, N. Y. Demountable rim. No. 1,408,173; Feb. 28.
- Dam, Henry R., assignor to Interstate Electric Novelty Company, Brooklyn, N. Y. Dry cell. No. 1,407,386; Feb. 21.
- Daman, Joseph E., St. Louis, Mich. Stovepipe anchor or lock. No. 1,415,806; May 9.
- Damascus Brake Beam Company, The. (See Maher, Peter L., assignor.)
- Damaska, Levi, Cadillac, Mich. Heating stove. No. 1,418,431; June 6.
- Dame, James A., Kokomo, Ind. Shoe fastener. No. 1,405,974; Feb. 7.
- Dameron, Adolphus, Cleveland, Ohio. Work holder. No. 1,422,749; July 11.
- Damiani, Godfrey R., Chicago, Ill. Door silencer. No. 1,437,635; Dec. 5.
- Damiano, Domenico, Boston, Mass. Tidewater power plant. No. 1,438,812; Dec. 12.
- Damm, Carl P., et al., trustees. (See Warren, J. R., and Brechting, assignors.)
- Damm, Carl P., et al., trustees. (See Warren, John R., assignor.)
- Damm, John, Brockton, Pa. Condenser. No. 1,402,575; Jan. 3.
- Damon, Chester R., et al. (See Legate, William A., assignor.)
- Dampney, Gerald F., Turramurra, near Sydney, New South Wales, Australia. Building construction. No. 1,434,809; Nov. 7.
- Dana Cotton Harvester Company. (See Skillins, John T., assignor.)
- Danaho, William J., Spray, N. C. Feed mechanism for the chemical treatment of water. No. 1,418,289; June 6.
- Danberg, Fred W., Toledo, Ohio. Article-setting-up means. No. 1,425,319; Aug. 8.
- Danckwardt, Paul, Denver, Colo. Distilling oil shales. No. 1,432,101; Oct. 17.
- Danda-Halpern Co. Inc. (See Halpern, Oscar L., assignor.)
- Dandois, Jean B., Brussels, Belgium. Locking device for sliding windows. No. 1,439,296; Dec. 19.
- D'Andrea, Nicola, assignor of one-half to M. Persichino, Bridgeport, Conn. Repair tip for shoes. No. 1,422,543; July 11.
- Dane, Christian H., Minneapolis, Minn. Equalizing device for spirometers. No. 1,407,841; Feb. 28.
- Danforth, Leon E. (See King, John P., assignor.)
- Dangerfield, William, Little Rock, Ark. Polish. No. 1,402,058; Jan. 3.
- Danheiser, Theodore, New York, and F. F. Fecher, Brooklyn, N. Y., assignors to The Beck Duplicator Company. Duplicator. No. 1,422,934; July 15.
- Daniel, Albert J., assignor of one-half to J. W. Bortz, Boone, Iowa. Emergency tire. No. 1,410,460; Mar. 21.
- Daniel, Cecil A., assignor to Cunningham Springless Shade Company, Greensboro, N. C. Curtain-shade roller. No. 1,404,837; Jan. 31.
- Daniel, David C., Apex, assignor of one-half to S. B. Shepherd, Raleigh, N. C. Fertilizer distributor. No. 1,423,649; July 25.
- Daniel, Edward W., Cleveland, Ohio. Wire-rope socket. No. 1,421,676; July 4.
- Daniel, Helen G., South Jacksonville, Fla. Infant's nursing chair. No. 1,403,543; Jan. 17.
- Daniel, Paul, Boundbrook, N. J. Electric heater. No. 1,427,094; Aug. 29.
- Daniel, Peter F., Christchurch, New Zealand. Valve for internal-combustion and other engines. No. 1,414,341; May 2.
- Daniel, Walter P., Austin, Tex. Bale marker. No. 1,407,735; Feb. 28.
- Daniell, George J., Brooklyn, assignor of one-half to J. F. Stewart, New York, N. Y. Turnover mechanism. No. 1,429,327; Sept. 19.
- Daniels, Abraham I. (See Oppman, Joseph, assignor.)
- Daniels, Edmund, Lahaina, Hawaii. Lock joint for centrifugal screens and forming the same. No. 1,428,010; Sept. 5.
- Daniels, Eugene O., Toledo, Ohio. Heating stove. No. 1,436,980; Nov. 28.
- Daniels, George H., Bayonne, N. J. Sectional die. No. 1,402,284; Jan. 3.
- Daniels, Harry H., Winthrop, Mass. Snap fastener. No. 1,404,014; Jan. 17.
- Daniels, Harry H., Winthrop, Mass. Stamp-affixing machine. No. 1,433,187; Oct. 24.
- Daniels, Homer H., Oswego, Kans. Shutter lift. No. 1,417,595; May 30.
- Daniels, John P., Clyman, Wis. Automobile spring clip. No. 1,435,052; Nov. 7.
- Daniels, Lee G., Rockford, Ill. Clutch. No. 1,439,952; Dec. 26.
- Daniels, Paul F., Minneapolis, Minn. Wire-cutting implement. No. 1,428,276; Sept. 5.
- Daniels, Roy R., Indianapolis, Ind. Pole-setting device. No. 1,410,380; Mar. 21.
- Daniels, William A., Dermott, Ark. Whiffletree-coupling means. No. 1,439,953; Dec. 26.
- Danielson, Albin, assignor of one-half to Hilmer Johnson, Brooklyn, N. Y. Propeller. No. 1,425,179; Aug. 8.
- Danielson, Carl, Chicago, Ill. Horseshoe. No. 1,413,324; Apr. 18.
- Danielson, Ernest G., assignor to E. T. Cunningham, San Francisco, Calif. Variable resistance. No. 1,426,465; Aug. 22.
- Danielson Tool Co. (See Jacob, Thomas H., assignor.)
- Danis, Romeo J., et al. (See Cryan, William H., assignor.)
- Dankworth, C. H., et al. (See Schluter, William, Jr., assignor.)
- Danly, George I., assignor to Ludwig & Ludwig, Inc., Chicago, Ill. Drum and cymbal beater. No. 1,437,173; Nov. 28.
- Danly, Robert C. (See Lunden, John A., assignor.)
- Dann, Ernest G., Cleveland, Ohio., assignor to The Dann Products Company. Manufacturing composite articles for bearings or other purposes. No. 1,422,677; July 11.
- Dann, Joseph A., Miami, Fla. Extension axle. No. 1,431,099; Oct. 3.
- Dann Products Company, The. (See Dann, Ernest G., assignor.)
- Danneel, Heinrich. (See Tommasi, N. C., and Danneel.)
- Danneel, Heinrich, and E. Lüscher, Basel, assignors to Elektrizitätswerk Lanza, Gampel (Canton of Valais) and Basel, Switzerland. Manufacture of metaldehyde. No. 1,432,387; Oct. 17.

- Dannelly, Henry G. (See McHam, John W., assignor.)
- Danquard, Thomas, New York, N. Y., assignor to Auto Pneumatic Action Company. Expression device for automatic musical instruments. No. 1,413,831; Apr. 25.
- Danquard, Thomas, assignor to The Auto Pneumatic Action Company, New York, N. Y. Expression device for automatic musical instruments. No. 1,413,832; Apr. 25.
- Dantin, Henri, Bordeaux, France. Double-acting pump. No. 1,433,875; Oct. 31.
- Dantszen, Christian, Schenectady, assignor to General Electric Company, New York, N. Y. Electrolytic apparatus and method. No. 1,416,692; May 23.
- Danziger, Abraham, New York, N. Y. Auxiliary sheet gauge for platen presses. No. 1,423,825; July 25.
- Daoust, Joseph A., Montreal, Quebec, Canada. Locking device for railway switches. No. 1,413,010; Apr. 18.
- Dapron, Joseph M., St. Louis, Mo. Means for operating fare registers. No. 1,408,348; Feb. 28.
- Daraban, Charles J. (See Parker, G., and Daraban.)
- Darby, George A., East Orange, N. J., assignor to The Hart Roller Bearing Company, Orange, N. J. Roller bearings. No. 1,438,749; Dec. 12.
- Darby, James K., Chillicothe, Ohio. Paper-making machine. No. 1,436,240; Nov. 21.
- Darby, Robert F., Yonkers, N. Y. Dustguard. No. 1,418,540; June 6.
- Darby, Samuel E., trustee. (See Bussey, Charles C., assignor.)
- Darby, Samuel E., jr., trustee. (See Winter, A., and Morgan, assignors.)
- Darche, Albert A. A., Alger, France. Resilient wheel. No. 1,413,159; Apr. 18.
- Darche, Eugene H., Chicago, Ill. Moistener. No. 1,438,638; Dec. 12.
- Darco Corporation. (See Mumford, Russell W., assignor.)
- Dardano, Carlos F., San Salvador, Salvador. Building construction. No. 1,412,926; Apr. 18.
- Dare, Arthur, Philadelphia, Pa. Hemoglobinometer and illuminating device therefor. No. 1,414,261; Apr. 25.
- Dargert, Henry D., Buffalo, N. Y. Motor-propelled vehicle. No. 1,405,763; Feb. 7.
- Dargue, Walter, Halifax, England. Coupling for driving bands or tapes. No. 1,413,972; Apr. 25.
- Darling, Charles H. (See Vainford, R. H., and Darling.)
- Darling, James H. (See Petersen, F. H., and Darling.)
- Darling, Jay, Williamsport, Ind. Mold for concrete posts. No. 1,436,385; Nov. 21.
- Darling, Joseph, and W. W. Curry, Chicora, Pa. Bung for tank filling and discharge fittings. No. 1,422,342; July 11.
- Darling, Lewis S. (See Pollard, T. J., and Darling.)
- Darling, Loren W., assignor of one-half to A. E. Hammer-schmidt, Sycamore, Ill. Box machine. No. 1,422,544; July 11.
- Darling, Mary G., Washington, D. C. Protector. No. 1,423,402; July 18.
- Darling, Virginia W., Yonkers, N. Y. Lamp shade. No. 1,413,520; Apr. 18.
- Darnell, Victor L., Baltimore, Md. Gauge. No. 1,402,056; Jan. 3.
- Darrach, Bradford, Jr., Elizabeth, N. J., assignor to Laminated Shim Company, Inc., Long Island City, N. Y. Making shims. No. 1,417,039; May 23.
- Darrah, Paul H., Berkeley, Calif. Steam engine. No. 1,438,521; Dec. 12.
- Darroch, George, Greenock, Scotland. Hydraulic steering system. No. 1,426,822; Aug. 22.
- Darrow, Burgess, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Pneumatic-tire tread. No. 1,424,131; July 25.
- Darrow, Clarence E., Miami, Fla. Swimming device. No. 1,406,940; Feb. 14.
- Darrow, Leo H., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Transmission equalization arrangement. No. 1,408,567; Mar. 7.
- Darrow, Leo H., New York, N. Y., assignor to American Telephone and Telegraph Company. Message-registering system. No. 1,412,458; Apr. 11.
- Darrow, Leo H., New York, N. Y., assignor to American Telephone and Telegraph Company. Transmission-equalization arrangement. No. 1,415,868; May 16.
- Darrow, Leslie L., and F. W. Hoessel, Stockton, Calif. Locking means for demountable rims. No. 1,407,787; Feb. 28.
- Darrow, Vernon L. (See Burnett, A. A., and Darrow.)
- Darrow, Wirt E., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Transmission equalization arrangement. No. 1,403,544; Jan. 17.
- Darsie, George, et al. (See Warman, Nathan W., assignor.)
- Darsie, James A., et al. (See Warman, Nathan W., assignor.)
- Dart, Melvin C., New York, N. Y. Closure member for automobile hoods. No. 1,434,487; Nov. 7.
- Dart, Melvin C., New York, N. Y. Burglar alarm. No. 1,439,152; Dec. 19.
- Dart, Wilms W., Oglesby, Okla. Dirigible headlight. No. 1,425,751; Aug. 15.
- Dartois, Victor G., Paris, France. Machine for cutting bevel-gear wheels with helical or straight teeth. No. 1,409,086; Mar. 7.
- Dartois, Victor G., Paris, France. Machine for cutting bevel-gear wheels with helical or straight teeth. No. 1,426,278; Aug. 15.
- Darville, Merton A., Elmhurst, assignor of one-half to D. C. Johnson, New York, N. Y. Calculation chart for securities. No. 1,413,973; Apr. 25.
- Dasen, Paul H., Ottosen, Iowa. Clutch-control lock. No. 1,420,821; June 27.
- Dashner, Emery J., Belmont, and C. H. Flint, Newton, Mass. Pressure-indicating device and alarm signal. No. 1,431,914; Oct. 10.
- Dashwood, Walter E., San Francisco, Calif. File protector. No. 1,416,618; May 16.
- Dath, Charles E., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Bolster-locking device. No. 1,402,842; Jan. 10.
- Dau, Ernest. (See Moffitt, C. B., and Dau.)
- Daubenheyer, Bradford J., Indianapolis, Ind. Wheel tread. No. 1,435,815; Nov. 14.
- Daubert, Harry J., Tamaqua, Pa. Car coupling. No. 1,403,295; Jan. 10.
- Dauber, Frank. (See Simon, Peter A., assignor.)
- Daudelín, Jean B., Fall River, Mass. Hand-threading loom shuttle. No. 1,413,102; Apr. 18.
- Daudelín, Jean B., Fall River, Mass. Loom shuttle. No. 1,413,103; Apr. 18.
- Daugherty, Elmo M., Webb City, assignor of one-half to A. J. Poynor, Joplin, Mo. Ore jig. No. 1,402,303; Jan. 3.
- Daulton, Benjamin H., assignor to The Irwin Auger Bit Company, Wilmington, Ohio. Producing auger bits. No. 1,420,527; June 20.
- Dauphinais, Henry C., Fargo, N. Dak. Vehicle wheel. No. 1,439,799; Dec. 26.
- Dauteuil, Edouard E., Paris, France. Process and apparatus for the mechanical cleaning and smoothing of the bellies of bulls, sheep, and other similar matters. No. 1,403,015; Jan. 10.
- Dauthaday, Leonard W. (See Lawrence, John M., assignor.)
- Dautrick, Owen L., assignor of one-half to F. M. Sumner, Detroit, Mich. Door and operating mechanism therefor. No. 1,408,174; Feb. 28.
- Davala, John D., and W. W. Staley, Frankfort, N. Y.; said Davala assignor to said Staley. Clothespin holder. No. 1,434,532; Nov. 7.
- Davanzo, Joseph, Philadelphia, Pa. Single-delivery container. No. 1,409,932; Mar. 21.
- Davenport, Arthur L., Highland Park, Mich. Means for creating records of data. No. 1,406,941; Feb. 14.
- Davenport, Thomas L., Everett, Wash. Vacuum jet and system of operating the same. No. 1,423,198; July 18.
- Davey, Alan F. (See Denham, Frederick C., assignor.)
- Davey, John F., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for inserting fasteners. No. 1,415,924; May 16.
- David, Adrien, St. Etienne, France. Weaving loom. No. 1,426,717; Aug. 22.
- David, James O., et al. (See Bair, Joseph H., assignor.)
- David, Leoncio, Washington, D. C. Electric hair clipper. No. 1,423,756; July 25.
- David, Leoncio, Washington, D. C., assignor of one-half to R. G. de Tonnancour, Fall River, Mass. Electric hair clipper. Reissue. No. 15,506; Dec. 19.
- David, Roger H., St. Paul, Minn. Double-pointed pushpin. No. 1,413,833; Apr. 25.
- Davidenia, Terentie, Detroit, Mich. Potato planter. No. 1,403,739; Jan. 17.
- Davidenia, Terentie, Toronto, Ontario, Canada. Rotating table. No. 1,433,604; Oct. 31.
- Davidovitz, Sol, et al. (See Solomon, Charles, assignor.)
- Davids, Charles A., New York, N. Y. Side-dumping vehicle. No. 1,429,547; Sept. 19.
- Davidson, Alexander H., Colma, and S. Sundelius, San Francisco, Calif. Cremation furnace. No. 1,421,919; July 4.
- Davidson, Archer, Brookline, Mass. Vehicle suspension. No. 1,429,411; Sept. 19.
- Davidson, Arthur, Renfrew, Scotland. Pulley. No. 1,429,491; Sept. 19.
- Davidson, Arthur C., Chicago, Ill. Draft gear. No. 1,410,736; Mar. 28.
- Davidson, Benjamin W. (See Pierce, F. A., and Davidson.)
- Davidson, Charles E. (See Norlander, Charles A., assignor.)
- Davidson, Edgar C. (See Beauchamp, A. W., and Davidson.)
- Davidson, Frederick L., Halifax, Nova Scotia, Canada. Dish-washing machine. No. 1,426,260; Aug. 15.
- Davidson, George. (See Bassett J., Scale, and Davidson.)
- Davidson, George, Ladysmith, British Columbia, Canada. Direction indicator for automobiles. No. 1,411,324; Apr. 4.
- Davidson, Harry O., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Support for concrete forms. No. 1,429,412; Sept. 19.
- Davidson, Henry W., Lancaster, Ohio. Sectional fastener. No. 1,412,459; Apr. 11.
- Davidson, John, Manchester, England. Internal-combustion engine. No. 1,414,072; Apr. 25.
- Davidson, John, Jr. (See Affel, H. A., and Davidson, Jr.)
- Davidson, John, Jr., Montclair, N. J., assignor to American Telephone and Telegraph Company. Signaling circuits for toll lines. No. 1,413,708; Apr. 25.

Alphabetical list of patentees—Continued.

- Davidson, John, jr., Montclair, N. J., assignor to American Telephone and Telegraph Company. Signaling circuits for toll lines. No. 1,429,931; Sept. 26.
- Davidson, John C., Pahiatua, New Zealand. Scraper device for cleaning floors and other surfaces. No. 1,438,750; Dec. 12.
- Davidson, Joshua E., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,419,617; June 13.
- Davidson, Joshua E., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,428,325; Sept. 5.
- Davidson, Lyndall P. (See Laist, F., Frick, Klepetko, and Davidson.)
- Davidson, Thomas C., Montreal, Quebec, Canada. Culinary vessel. No. 1,418,432; June 6.
- Davidson, William H., Seattle, Wash. Oil burner. No. 1,414,725; May 2.
- Davidson, William M. (See Riddell, Guy C., assignor.)
- Davidson, William M., assignor to William Patent Crusher and Pulverizer Company, St. Louis, Mo. Crusher and pulverizer. No. 1,420,021; June 20.
- Davidson, William M., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Hammer rod for crushers. No. 1,439,800; Dec. 26.
- Davidson, William M., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Cage-partition plate for crushers. No. 1,439,872; Dec. 26.
- Davidson, William S., deceased, by Anna L. Neal, administratrix, Philadelphia, Tenn. Railway mail crane. No. 1,414,690; May 2.
- Davies, Albert J., Sault Ste. Marie, Ontario, Canada. Fourdrinier machine. No. 1,425,240; Aug. 8.
- Davies, David, Llanelly, and D. Jones, Tirocoed, Wales. Apparatus used in the manufacture of sheet-metal plates. No. 1,422,085; July 11.
- Davies, David B., and E. P. Strong, Munising, Mich. Process and apparatus for preparing sulphite digestion liquor. No. 1,424,883; Aug. 8.
- Davies, David P., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Traction engine. No. 1,402,922; Jan. 10.
- Davies, David P., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Internal-combustion engine. No. 1,417,804; May 30.
- Davies, David P., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Sealing device for rotary structures. No. 1,428,943; Sept. 12.
- Davies, David K. (See Coates, W. A., Gittins, and Davies.)
- Davies, Elmer C., Portland, Oreg. Piston globe valve. No. 1,423,543; July 11.
- Davies, Ifor L., Blackheath, England. Tire pump. No. 1,417,805; May 30.
- Davies, John J. (See Brown, A. J., and Davies.)
- Davies, Samuel. (See Lewis, J., and Davies.)
- Davies, Septimus H., Calgary, Alberta, Canada. Antiskid device for motor vehicles. No. 1,432,971; Oct. 24.
- Davies, Wayne, Atlanta, Ga. Cooking apparatus. No. 1,438,223; Dec. 12.
- Davies, William R. (See Thomas, H. S., and Davies.)
- Davilla, Joseph J., New Orleans, La. Music-roll perforator and printer. No. 1,428,277; Sept. 5.
- Daving, Joseph, New York, N. Y. Hook for convertible watches. No. 1,426,554; Aug. 22.
- Davis, Albert C., Liverpool, England. Ice-making apparatus. No. 1,414,330; Apr. 25.
- Davis, Albert E. and S. Kew Gardens, N. Y. Display stand. No. 1,408,079; Feb. 28.
- Davis, Albert H., La Habra, Calif. Adjustable schedule. No. 1,434,774; Nov. 7.
- Davis, Alby C., Fostoria, Ohio. Can-filling device. No. 1,435,381; Nov. 14.
- Davis, Alfred V., Elkton, Md. Electrolytic cell. No. 1,425,752; Aug. 15.
- Davis, Alonzo E., Ashtabula, Ohio. Window-sash fastener. No. 1,423,310; July 18.
- Davis, Arthur, Rutherford, N. J. Automobile rear signal. No. 1,402,576; Jan. 3.
- Davis, Arthur J., Cedar Rapids, Iowa. Stock feeder. No. 1,423,915; July 25.
- Davis, Arthur P., New York, assignor to Sperry Gyroscope Company, Brooklyn, N. Y. Thermostat for searchlights. No. 1,433,073; Oct. 24.
- Davis Automatic Cradle Company. (See Magidson, Frank, assignor.)
- Davis Automatic Equipment Corporation. (See Buzzaird, Raleigh B., assignor.)
- Davis, Benjamin F., Miami, Fla. Unit slab for building walls. No. 1,428,147; Sept. 5.
- Davis-Bournonville Company. (See Anderson, James L., assignor.)
- Davis, Calvin R., assignor to Emerson-Brantingham Company, Rockford, Ill. Power-lift sweep rake. No. 1,404,010; Jan. 17.
- Davis, Calvin R., assignor to Emerson-Brantingham Company, Rockford, Ill. Coupling for train of binders, mowers, and other vehicles. No. 1,422,186; July 11.
- Davis, Carleton E., Philadelphia, Pa. Means for supporting top and side tiles of furnaces. No. 1,402,482; Jan. 3.
- Davis, Catherine J., Portland, Oreg. Curtain and shade holder. No. 1,435,816; Nov. 14.
- Davis, Cecil, Atlanta, Ind. Shingle. No. 1,403,392; Jan. 10.
- Davis, Cecil E., Montezuma, Kans. Boring head. No. 1,419,448; June 13.
- Davis, Charles A., Hammond, Ind. Steering mechanism. No. 1,410,381; Mar. 11.
- Davis, Charles C., Richmond, Va. Chain. No. 1,421,178; June 27.
- Davis, Charles E. (See Logan, T. A., Brown, and Davis.)
- Davis, Charles E., Battle Creek, Mich. Tackle block. No. 1,408,273; Feb. 28.
- Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Scraper loader system. No. 1,408,080; Feb. 28.
- Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Transmission device. No. 1,430,799; Oct. 3.
- Davis, Charles T., New York, N. Y. Coating process and apparatus. No. 1,416,796; May 23.
- Davis, Charles W., assignor of three-fourths to H. M. Butler, Kirkstall Forge, near Leeds, England. Making axles for motor-driven road vehicles. No. 1,426,279; Aug. 15.
- Davis, Charles W., deceased, Edgeworth, and W. S. Brown, Pittsburgh, Pa., M. W. Davis and P. H. W. Smith, executors; said Brown and said executors assignors to Standard Underground Cable Company, Pittsburgh, Pa. Apparatus for building up laminate insulation and like structures. No. 1,420,911; June 27.
- Davis, Clarence M., Cape May, N. J., assignor to A. Mecky Company, Philadelphia, Pa. Coaster brake. No. 1,402,577; Jan. 3.
- Davis, Clarence S., Buffalo, N. Y. Railway-track construction. No. 1,409,526; Mar. 14.
- Davis, Claude W., Springfield, Ill. Auto towing and steering appliance. No. 1,414,552; May 2.
- Davis, Coleman J., Hardinsburg, Ky. Pocketbook or the like. No. 1,404,278; Jan. 24.
- Davis, Daniel W., assignor of one-half to W. T. Hall, Oskaloosa, Iowa. Churn. No. 1,406,543; Feb. 14.
- Davis, David C., Wilksburg, Pa. Assignor to Westinghouse Electric and Manufacturing Company. Mechanical converter. No. 1,404,838; Jan. 31.
- Davis, David S., assignor of one-third to P. J. Keenan, Chicago, Ill. Turning mechanism for billets and the like. No. 1,410,382; Mar. 21.
- Davis, Decatur W., Louisville, Ky. Latching hook. No. 1,420,912; June 27.
- Davis, Donald C., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Buffer for railway rolling stock. No. 1,420,183; June 20.
- Davis, Elnino D., Chicago, Ill., assignor, by mesne assignments, to Equipment Device Company. Water and feed trough. No. 1,410,536; Mar. 21.
- Davis, Francis G., Watertown, assignor to H. H. Babcock Company, Watertown, N. Y. Truck platform. No. 1,402,146; Jan. 3.
- Davis, Frank, San Jose, Calif. Automobile lifting frame. No. 1,432,159; Oct. 17.
- Davis, Frank L., Chicago, Ill. Flooring. No. 1,404,279; Jan. 24.
- Davis, Frank M., Milwaukee, Wis. Feeding and clamping means for metal-working machines. No. 1,415,530; May 9.
- Davis, Frank P. C., J. Hall, and A. G. Hall, Kelso, Wash. Lock nut. No. 1,435,216; Nov. 14.
- Davis, G. H. (See Belcher, Mark, assignor.)
- Davis, Garfield, Spokane, Wash. Auxiliary lift for road-working apparatus. No. 1,438,948; Dec. 19.
- Davis, George H., and C. T. Bowman, Orange, N. J., assignors to said Davis. Center-clamp plate for record matrices. No. 1,401,966; Jan. 3.
- Davis, George H., and C. T. Bowman, Orange, N. J., assignors to said Davis. Water-cooled die. No. 1,407,130; Feb. 21.
- Davis, George P., et al. (See Smith, William H., assignor.)
- Davis, George R., Marlboro, Mass. Floor cart. No. 1,427,583; Aug. 29.
- Davis, George W., Putney, Vt. Dowel-making machine. No. 1,427,073; Aug. 22.
- Davis, Gilbert, Nicholson, N. Dak. Binder platform. No. 1,405,571; Feb. 7.
- Davis, H. G., Manufacturing Company. (See Henry, George W., jr., assignor.)
- Davis, Harmon L., Greenville, Pa. Lock nut. No. 1,422,750; July 11.
- Davis, Harold S. (See Bacon, R. F., and Davis.)
- Davis, Harold S., and R. F. Bacon, Pittsburgh, Pa., assignors to Texas Gulf Sulfur Company, Bay City, Tex. Process and apparatus for melting sulphur. No. 1,421,416; July 4.
- Davis, Harold S., and S. D. Semenov, assignors to The Koppers Company, Pittsburgh, Pa. Purification of phenol-containing liquids. No. 1,437,401; Dec. 5.
- Davis, Harry B., assignor of one-fourth to Dr. B. H. Kershaw and one-fourth to M. L. Whitney, Chicago, Ill. Composition of matter for deadening partitions, floors, and the like. No. 1,406,618; Feb. 14.
- Davis, Harry G., Philadelphia, Pa. Automatic train-control device. No. 1,428,511; Sept. 5.
- Davis, Harvey H., Newport, Ky. Reel for toy balloons. No. 1,436,241; Nov. 21.
- Davis, Harvey N., Cambridge, Mass., assignor to Research Corporation, New York, N. Y. Liquefaction of air. No. 1,420,625; June 27.

Alphabetical list of patentees—Continued.

- Davis, Harvey N., Cambridge, Mass., assignor to Research Corporation, New York, N. Y. Interchanger turbine. No. 1,420,626; June 27.
- Davis, Hattie E. (See Davis, John S., assignor.)
- Davis, Henry E., Boston, Mass., assignor to C. J. Bates & Son, Chester, Conn. Finger-nail buffer. No. 1,416,619; May 16.
- Davis, Henry J., Niles, Ohio. Continuous rolling mill. No. 1,428,944; Sept. 12.
- Davis, Henry K. B., Jr., assignor to The Swingrite Co. Inc., Providence, R. I. Sawing machine. No. 1,439,801; Dec. 26.
- Davis, Henry N., Independence, Mo. Fuse plug. No. 1,414,864; May 2.
- Davis, Henson, Roundup, Mont. Lamp holder for miners' caps. No. 1,435,817; Nov. 14.
- Davis, Herbert C. (See Renshaw, C. E., and Davis.)
- Davis, Hezekiah. (See Gillom, Frank, assignor.)
- Davis, Howard C., Elizabeth, assignor to American Marine Equipment Corporation, New York, N. Y. Evaporator, feed-water heater, and the like. No. 1,420,366; June 20.
- Davis, Howard E., Los Angeles, Calif. Stylus-bar mounting. No. 1,413,461; Apr. 18.
- Davis, Howard H., Cleveland, Ohio. Efficiency indicator for explosion motors. No. 1,429,192; Sept. 12.
- Davis, James, Gananoque, Ontario, Canada. One-man-automobile top. No. 1,423,916; July 25.
- Davis, James D., Los Angeles, Calif. Combined pool and library table. No. 1,410,171; Mar. 21.
- Davis, James H. (See Gibbs, M., and Davis.)
- Davis, James L., Richmond, Va. Check or account book. No. 1,417,977; May 30.
- Davis, John A. (See Hammond, Harry F., assignor.)
- Davis, John B., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Dispensing pump. No. 1,430,953; Oct. 3.
- Davis, John J. (See Bleye, A. W., and Davis.)
- Davis, John O., Minneapolis, Minn., and J. H. Stice, Tama, Iowa; said Stice assignor to said Davis. Legal-blank-vending machine. No. 1,407,842; Feb. 28.
- Davis, John R., Seattle, Wash. Teeter board. No. 1,437,888; Dec. 5.
- Davis, John S., assignor to H. E. Davis, Spokane, Wash. Article carrier. No. 1,434,594; Nov. 7.
- Davis, John W., Cincinnati, Ohio. Molding machine. No. 1,410,172; Mar. 21.
- Davis, Joseph R., assignor to J. E. Long, Clarksburg, W. Va. Piston ring. No. 1,413,521; Apr. 18.
- Davis, Joseph S., Albion, Mich. Clothesline support. No. 1,436,578; Nov. 21.
- Davis, Lawrence V. (See Brandt, G. M., and Davis.)
- Davis, Leonard C., Frinton-on-Sea, England. Feeding bottle. No. 1,403,148; Jan. 10.
- Davis, Leonard M., Knoxville, Tenn. Flue cleaner. No. 1,408,934; Mar. 7.
- Davis, Lewis, Worcester, Mass., assignor to Brewer & Company, Incorporated. Tablet for producing iodine. No. 1,429,276; Sept. 19.
- Davis, Lewis K. (See Dalrymple, Philip W., assignor.) (Reissue.)
- Davis, Lewis K., Washington, D. C. Grip pulley. No. 1,431,376; Oct. 10.
- Davis, Loren W. (See Thomas, Walter J., assignor.)
- Davis, Margaret W., et al., executors. (See Davis, C. W., and Brown.)
- Davis, Marvin H., Douglas, Ariz. Electric-light socket. No. 1,411,002; Mar. 28.
- Davis, Melvin L., and G. W. Cook, assignors of one-third to H. H. Champlin, Enid, Okla. Pressure-controlled cut-off. No. 1,423,403; July 18.
- Davis, Menno H., Albion, Mich. Auxiliary seat. No. 1,431,291; Oct. 10.
- Davis, Merlon D., London, England. Fountain pen. No. 1,428,417; Sept. 5.
- Davis, Meshack, Schlatter, Miss. Folding feed box. No. 1,422,422; July 11.
- Davis, Meyer. (See Sealy, Edward W., assignor.)
- Davis, Mortimer D., assignor of one-half to G. L. Cassidy and J. J. Murray, Springfield, Mass. Hammer. No. 1,428,838; Sept. 12.
- Davis, Nathan, Dorchester, Mass. Tool for replacing machine belts. No. 1,410,383; Mar. 21.
- Davis, Orin C., Manistee, Mich. Jar closure. No. 1,427,151; Aug. 29.
- Davis, Oscar R., Pottstown, Pa. Valve. No. 1,412,927; Apr. 18.
- Davis, R. B., Company. (See Euler, George C., assignor.)
- Davis, Raleigh M., Ponce de Leon, Fla. Book holder. No. 1,427,074; Aug. 22.
- Davis, Robert H. (See Levy, Leonard A., assignor.)
- Davis, Robert H. (See Rosling, Cecil, assignor.)
- Davis, Robert W., New York, N. Y. Hull construction. No. 1,439,153; Dec. 19.
- Davis, Roy J., and C. A. Beckman, Portland, Oreg. Motor-vehicle gear-shift lever and lock. No. 1,402,841; Jan. 10.
- Davis, Russell K., Hartford, Conn., assignor to The Skafey Ball Bearing Company. Chuck. No. 1,427,785; Sept. 5.
- Davis, Russell K., and W. J. Schaffer, Hartford, Conn., assignors to Skafey Ball Bearing Company. Metal-working machine. No. 1,435,453; Nov. 14.
- Davis, Scott J., assignor to E. F. Comezys, Oklahoma, Okla. Preserving lacteal fluids. No. 1,436,947; Nov. 28.
- Davis, Seward, Montclair, assignor to C. P. Olson, Irvington, N. J. Process and apparatus for the manufacture and handling of imitation metallic leaf. No. 1,414,115; Apr. 25.
- Davis, Seward H., Detroit, Mich. Clothes-drying machine. No. 1,432,388; Oct. 17.
- Davis Sewing Machine Company, The. (See Ireland, W. S., and Meyer, assignors.)
- Davis Sewing Machine Company, The. (See Ireland, Ward S., assignor.)
- Davis Sewing Machine Company, The. (See Lewis, Elmer M., assignor.)
- Davis Sewing Machine Company, The. (See Meyer, William H., assignor.)
- Davis Sewing Machine Company, The. (See Pearson, John W., assignor.)
- Davis Sewing Machine Company, The. (See Power, J. S., and Pearson, assignors.)
- Davis Sewing Machine Company, The. (See Power, Joseph S., assignor.)
- Davis, Simon. (See Davis, Albert E. and S.)
- Davis, Stanley H., Toledo, Ohio. Box fastener. No. 1,435,589; Nov. 14.
- Davis, Tenney L., Somerville, Mass. Mercury nitrate as a reagent for the preparation of nitrophenols. No. 1,417,368; May 23.
- Davis, Tenney L., Somerville, Mass. Preparation of guanidine. No. 1,417,369; May 23.
- Davis, Tenney L., Somerville, Mass. High explosive and preparing the same. No. 1,419,027; June 6.
- Davis, Tenney L., Somerville, Mass. Explosive. No. 1,432,321; Oct. 17.
- Davis, Tenney L., Somerville, Mass. Coating for nitrocellulose powder grains. No. 1,432,322; Oct. 17.
- Davis, Tenney L., Somerville, Mass. Producing smokeless powder. No. 1,439,505; Dec. 19.
- Davis, Tenney L., Somerville, Mass. Guanidine nitrate. No. 1,440,063; Dec. 26.
- Davis, Theron, New York, N. Y. Making perforated blown rubber articles. No. 1,409,154; Mar. 14.
- Davis, Theron, New York, N. Y. Spark plug. No. 1,438,300; Dec. 12.
- Davis, Thomas C., Pueblo, Colo. Washing machine. No. 1,434,595; Nov. 7.
- Davis, Wade H., Rosemary, N. C. Dyeing apparatus. No. 1,405,299; Jan. 31.
- Davis, Wade H., Walnut Cove, N. C. Apparatus for dyeing. No. 1,407,387; Feb. 21.
- Davis, Wesley K., Macon, Ga. Rotary internal-combustion engine. No. 1,402,057; Jan. 3.
- Davis, Wilbur, Collins, Iowa. Egg candling and handling device. No. 1,407,191; Feb. 21.
- Davis, William E., Genesee, Mich. Antiskid device. No. 1,405,672; Feb. 7.
- Davis, William J., Chicago, Ill. Pasteurizing holder. No. 1,406,982; Feb. 21.
- Davis, William J., Chicago, Ill. Milk bottle. No. 1,406,983; Feb. 21.
- Davis, William J., Chicago, Ill. Temperature-changing apparatus. No. 1,407,013; Feb. 21.
- Davis, William J., Chicago, Ill. Milk-handling machinery. No. 1,407,014; Feb. 21.
- Davis, William M., Terre Haute, Ind. Hot-blast boiler furnace. No. 1,440,342; Dec. 26.
- Davis, William T., Mineral Wells, Tex. Toy. No. 1,429,571; Sept. 19.
- Davis, Zlotnek. (See Fagen, Abraham A., assignor.)
- Davison, Daniel E., Brooklyn, N. Y. Clothesline bracket and tray. No. 1,428,418; Sept. 5.
- Davison, Frank, Detroit, Mich. Support for baby-feeding bottles and toys. No. 1,435,217; Nov. 14.
- Davison, Frank G., Boston, Mass. Attachable plate and making same. No. 1,425,840; Aug. 15.
- Davison, Frank G., Cambridge, Mass. Attachable plate and making the same. No. 1,425,841; Aug. 15.
- Davison, Goliath, St. Louis, Mo. Camera. No. 1,411,325; Apr. 4.
- Davison, Gregory C., Groton, Conn. Liquid meter for use with oil wells. No. 1,432,593; Oct. 17.
- Davissou, Harry W., assignor of one-half to J. C. Patrick, Kansas City, Mo. Grain chute. No. 1,428,763; Sept. 12.
- Davisworth, Edwin H., Creech, Ky. Hospital bed. No. 1,411,236; Mar. 28.
- Davitt, William F., Manchester, N. H. Picker stick. No. 1,406,544; Feb. 14.
- Davock, Edward, New York, N. Y. Interposed water heater. No. 1,407,989; Feb. 28.
- Davock, Edward, New York, N. Y. Heating system. No. 1,407,990; Feb. 28.
- Dawes, William J., et al. (See Smith, William H., assignor.)
- Dawson, Arthur T., Westminster, London, and J. Horne, Barrow-in-Furness, assignors to Vickers Limited, Westminster, London, England. Ammunition hoisting and loading apparatus for ordnance. No. 1,402,400; Jan. 3.
- Dawson, Arthur T., Westminster, London, and J. Horne, Barrow-in-Furness, assignors to Vickers Limited, Westminster, London, England. Ammunition-hoisting apparatus for ordnance. No. 1,402,401; Jan. 3.
- Dawson, Arthur T., Westminster, London, and J. Horne, Barrow-in-Furness, assignors to Vickers Limited, Westminster, London, England. Ammunition hoisting and loading apparatus for ordnance. No. 1,402,402; Jan. 3.

Alphabetical list of patentees—Continued.

- Dawson, Arthur T., Westminster, London, and J. Horne, Barrow-in-Furness, England, assignors to Vickers Limited, Westminster, London, England. Ammunition-hoisting apparatus for ordnance. No. 1,410,895; Mar. 28.
- Dawson, Arthur T., Westminster, and J. Horne, Barrow-in-Furness, assignors to Vickers Limited, Westminster, England. Ordnance. No. 1,423,757; July 25.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance-firing mechanism. No. 1,420,972; June 27.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance breech mechanism. No. 1,422,037; July 4.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ammunition hoisting and loading apparatus for ordnance. No. 1,422,678; July 11.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. High-angle ordnance. No. 1,423,404; July 18.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Recoil apparatus of ordnance. No. 1,433,986; Oct. 31.
- Dawson, Arthur T., and G. T. Buckham, Westminster, London, assignors to Vickers Limited, Westminster, England. Run-out apparatus of ordnance. No. 1,437,174; Nov. 28.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Practice tube adapter for quick-firing guns. No. 1,437,402; Dec. 5.
- Dawson, Axel G. (See Dawson, Carl E. and A. G.)
- Dawson, Carl E. and A. G., Cleveland, Ohio. Partition for buildings. No. 1,420,473; June 20.
- Dawson, Charles. (See Colson, Thomas, assignor.)
- Dawson, Frederick G., Detroit, Mich. Electric forging and heat-treating furnace. No. 1,430,438; Sept. 26.
- Dawson, H. Ward. (See Bleyle, A. W., and Davis, assignors.)
- Dawson, James C., Webster Groves, Mo. Bookbinding. No. 1,410,000; Mar. 21.
- Dawson, James C., Webster Groves, Mo. Loose-leaf binder. No. 1,410,001; Mar. 21.
- Dawson, James C., Webster Groves, Mo. Loose-leaf binder. No. 1,413,904; Apr. 25.
- Dawson, John J., Globe, Ariz. Apparatus for producing copper. No. 1,403,235; Jan. 10.
- Dawson, Joseph E., Dodsonville, Tex. Cultivator foot. No. 1,427,075; Aug. 22.
- Dawson, Leslie M., Vancouver, British Columbia, Canada. Gate valve. No. 1,411,608; Apr. 4.
- Dawson, Robert K., Guelph, Ontario, Canada. Fitting for stools or the like. No. 1,416,693; May 23.
- Dawson, Robert K., Guelph, Ontario, Canada. Chair base. No. 1,422,933; July 18.
- Day, Albert V. T., New Rochelle, N. Y. Self-luminous writing instrument. No. 1,420,184; June 20.
- Day, Albert V. T., New Rochelle, N. Y. Self-luminous marker for screw heads and nail heads. No. 1,420,185; June 20.
- Day, Alfred L., Brookline, Mass., assignor to Day Perforator Company. Perforating machine. No. 1,429,719; Sept. 19.
- Day, Arthur A., assignor to Buffalo Forge Company, Buffalo, N. Y. Air washer and the like. No. 1,402,147; Jan. 3.
- Day, David T., Washington, D. C. Treating hydrocarbon oils. No. 1,411,237; Mar. 28.
- Day, David T., Washington, D. C. Treatment of hydrocarbon oils. No. 1,422,038; July 4.
- Day, Edgar K., assignor to Whitaker-Glessner Company, Wheeling, W. Va. Fastening device. No. 1,420,528; June 20.
- Day, Edward A., Odanah, Wis., and A. W. White, Robertville, New Brunswick, Canada. Amusement apparatus. No. 1,407,642; Feb. 21.
- Day, Edwin W., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Jewel support for compasses. No. 1,424,804; Aug. 8.
- Day, Eugene G., Bloomfield, N. J. Filing device. No. 1,411,959; Apr. 4.
- Day, George H., assignor to American Optical Company, Southbridge, Mass. Goggles. No. 1,408,349; Feb. 28.
- Day, Herbert W. (See Parker, L. H., and Day.)
- Day, Herbert W., Wollaston, assignor to Spray Engineering Company, Boston, Mass. Pressure regulator. No. 1,425,634; Aug. 15.
- Day, James A., Oilfields, Calif. Well-rod socket. No. 1,416,620; May 16.
- Day, John L., Memphis, Tenn. Combined license-tag holder and rear signal light. No. 1,413,104; Apr. 18.
- Day, John W. (See Day, Wallace and J. W.)
- Day, Percy C. (See Falk, H. W., Day, and Banner.)
- Day Perforator Company. (See Day, Alfred L., assignor.)
- Day, Ralph B. (See Harsel, W. E., and Day.)
- Day, Ralph B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Fabric-notching device. No. 1,403,740; Jan. 17.
- Day, Robert L., Huntington, W. Va. Building. No. 1,420,973; June 27.
- Day, Robert U., Stephenson, Miss. Necktie holder and collar connector. No. 1,403,741; Jan. 17.
- Day, Robert V., Douglas, Ga. Truck body. No. 1,438,813; Dec. 12.
- Day, Roland B., Swarthmore, Pa., assignor to Day's Petroleum Process Co., Inc. Treating hydrocarbon oils. No. 1,437,932; Dec. 5.
- Day, Roland B., Swarthmore, Pa., assignor to Day's Petroleum Process Co., Inc. Apparatus for treating hydrocarbon oils. No. 1,437,933; Dec. 5.
- Day, Summer W., Lorain, Ohio. Collapsible rim for automobile tires. No. 1,433,499; Oct. 24.
- Day, Wallace. (See Evans, C. P., Greenstreet, and Day.)
- Day, Wallace and J. W., assignors of one-third to M. L. Greenstreet, Maplewood, Mo. Refrigerating apparatus. No. 1,428,361; Sept. 5.
- Day, William H. (See Campbell, C. S., and Day.)
- Day, William H., Lockport, N. Y. Drainage tank for automobile radiators. No. 1,422,679; July 11.
- Day, William M., Smiths Falls, Ontario, Canada. Snow-pow. No. 1,433,188; Oct. 24.
- Day, William P., Cleveland, Ohio. Rail-supporting structure. No. 1,420,974; June 27.
- Dayeh, Louis, Philadelphia, Pa. Combination toothbrush and dentifrice holder. No. 1,423,405; July 18.
- Daylight Film Corporation. (See John, Robert, assignor.)
- Daynix, John C., Philadelphia, Pa. Measuring device. No. 1,413,325; Apr. 18.
- Day's Petroleum Process Co. (See Day, Roland B., as assignor.)
- Daysh, Norman J., Poughkeepsie, N. Y., and C. H. Hapgood, Danvers, Mass., assignors to The De Laval Separator Company, New York, N. Y. Milking machinery. No. 1,405,104; Jan. 31.
- Dayton, Charles W., New York, N. Y. Golf club. No. 1,436,579; Nov. 21.
- Dayton, Curtis I., Chicago, Ill., assignor of one-half to E. L. Dayton, Detroit, Mich. Coating apparatus. No. 1,422,545; July 11.
- Dayton Display Fixture Company, The. (See Allen, Erhard, assignor.)
- Dayton Engineering Laboratories Company, The. (See Chryst, William A., assignor.)
- Dayton Engineering Laboratories Company, The. (See Haas, Nelson R., assignor.)
- Dayton Engineering Laboratories Company, The. (See Hunt, John H., assignor.)
- Dayton Engineering Laboratories Company, The. (See Kettering, C. F., and Chryst, assignors.)
- Dayton Engineering Laboratories Company, The. (See Kettering, Charles F., assignor.)
- Dayton Engineering Laboratories Company, The. (See O'Brien, W. L., and Spencer, assignors.)
- Dayton Engineering Laboratories Company. (See Schwarz, Elmer H., assignor.)
- Dayton, Ernest L. (See Dayton, Curtis I., assignor.)
- Dayton Manufacturing Company, The. (See Hutchins, R. J., and Kirby, assignors.)
- Dayton Rubber Manufacturing Company, The. (See Freedlander, A. L., and Goodwin, assignors.)
- Dayton Securities Company, The. (See Harris, William H., assignor.)
- Dayton Steel Foundry Company, The. (See Leoni, Alfonso M., assignor.) (Reissue.)
- Dayton Steel Foundry Company, The. (See Walther, G., and Klinger, assignors.)
- Dayton Steel Foundry Company, The. (See Walther, George, assignor.)
- Dayton Steel Racquet Company, The. (See Larned, William A., assignor.)
- Dayton, Walter C., Buffalo, N. Y., assignor, by mesne assignments, to General Oil Gas Corporation, Bristol, Va. Apparatus for protecting gas producers. No. 1,402,721; Jan. 3.
- Dayton, Walter C., Rutherford, N. J., assignor to General Oil Gas Corporation, Bristol, Va. Liquid-fuel burner and system employing the same. No. 1,409,678; Mar. 14.
- Dazey Churn and Manufacturing Company. (See Dazey, Nathan P., assignor.)
- Dazey, Nathan P., assignor to Dazey Churn and Manufacturing Company, St. Louis, Mo. Churn. No. 1,406,619; Feb. 14.
- Deaderick, Monroe M., St. Petersburg, Fla. Fireplace. No. 1,411,609; Apr. 4.
- Deagan, John C., Chicago, Ill. Apparatus for tuning musical instruments. No. 1,402,219; Jan. 3.
- Deagan, John C., Chicago, Ill. Master tuning fork and supporting resonator. No. 1,419,919; June 20.
- De Aguiar, Abelardo, and R. V. Anciano, Habana, Cuba. Apparatus for bending tubes, rails, and similar metal pieces. No. 1,436,225; Nov. 21.
- Deakin, Gerald, Antwerp, Belgium, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone hand set. No. 1,439,729; Dec. 26.
- Deal, Orval T. (See Doman, John P., assignor.)
- Dealy, James L., assignor of one-half to C. Salsbury, Chandler, Colo. Automatic mine door. No. 1,432,972; Oct. 24.
- Dean, Anthony E. (See Winters, Robert E., assignor.)
- Dean, Charles G., Milwaukee, Wis. Chain belt. No. 1,414,691; May 2.
- Dean, Charles L., assignor to Stearns-Roger Manufacturing Company, Denver, Colo. Drum for drying pulp and the like. No. 1,422,039; July 4.
- Dean, Charles V., and C. A. Simonds, Grand Rapids, Mich. Air vent and vacuum seal. No. 1,424,756; Aug. 8.

- Dean, Dolliver M., Lacon, assignor, by mesne assignments, to Mary W. Dean, Peoria, Ill. Concrete block for culverts. No. 1,404,935; Jan. 31.
- Dean, Emily W., administratrix. (See Dean, George R.)
- Dean, Francis W., Lexington, Mass. Fire door. No. 1,408,867; Mar. 7.
- Dean, George R., deceased, Chicago, Ill.; E. W. Dean, administratrix. Temperature valve. No. 1,412,845; Apr. 18.
- Dean, George R., deceased, Chicago, Ill.; E. W. Dean, administratrix. Roof construction. No. 1,439,072; Dec. 19.
- Dean, Harry H. (See Staples, E. C., and Dean.)
- Dean, Harry K. (See Butts, E., and Dean.)
- Dean, Henry C. (See Loman, F. A. and A. L., and Dean.)
- Dean, Herbert, Clifton Junction, near Manchester, England, assignor to The Electric Storage Battery Company, Philadelphia, Pa. Secondary electric battery or accumulator. No. 1,426,966; Aug. 22.
- Dean Hotel Company. (See Reichl, Joseph, assignor.)
- Dean, James H., Chicago, Ill. Stove. No. 1,409,679; Mar. 14.
- Dean, John, Racine, Wis. Metal character for patterns. No. 1,438,949; Dec. 19.
- Dean, Mary W. (See Dean, Dolliver M., assignor.)
- Dean, Murray F., St. Louis, Mo. Ventilating knob for cooking vessels. No. 1,422,935; July 18.
- Dean, Thomas I. (See Wright, W. C., and Dean.)
- Dean, Tullie, Mauckport, Ind. Silo. No. 1,406,942; Feb. 14.
- Dean, William W., Wilmette, Ill. Centrifugal governor. No. 1,431,377; Oct. 10.
- Dean, William W., Wilmette, Ill. Centrifugal governing mechanism. No. 1,431,379; Oct. 10.
- Dean, William W., Elyria, Ohio, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,403,671; Jan. 17.
- Dean, William W., assignor to Splitdorf Electrical Company, Newark, N. J. Interrupter for ignition systems. No. 1,413,905; Apr. 25.
- Dean, William W., assignor to Splitdorf Electrical Company, Newark, N. J. Electric motor for talking machines. No. 1,415,430; May 9.
- Dean, William W., Wilmette, Ill., assignor to Efficiency Electric Corporation, New York, N. Y. Electric governing system. No. 1,419,233; June 13.
- Deane, Bernard P. F., Kensington, England, Radiator for motor vehicles and the like. No. 1,416,337; May 16.
- Deane, Granville M., Dallas, Tex. Clamp. No. 1,424,884; Aug. 8.
- Dear, Luke C., Butte, Mont. Gun sight. No. 1,406,620; Feb. 14.
- Dearborn, Richard J., Plandome, N. Y., assignor to A. Kingsbury, Pittsburgh, Pa. Bearing. No. 1,412,341; Apr. 11.
- Dearborn, Richard J., Plandome, N. Y., assignor to A. Kingsbury, Pittsburgh, Pa. Bearing. No. 1,412,342; Apr. 11.
- Dearden, Albert R. J., Jersey City, N. J. Heater. No. 1,429,193; Sept. 12.
- Dearing, Major E., Salt Lake City, Utah. Heat retainer for water heaters. No. 1,417,888; May 30.
- De Armond, Charles F., Elko, Nev. Tool or drill holder. No. 1,403,847; Jan. 17.
- De Armond, Charles F., Elko, Nev. Rotating and shock-absorbing means for reciprocating shafts. No. 1,412,928; Apr. 18.
- De Armond, Elroy, Grand Rapids, Mich. Culinary utensil. No. 1,429,492; Sept. 19.
- De Armond, Frank V., Topeka, Kans. Booster appliance for locomotives and other automotive machines. No. 1,417,302; May 23.
- De Armond, Walter E., Knoxville, assignor of one-half to R. A. Bozeman, Blount County, Tenn. Fireplace grate and water back. No. 1,432,538; Oct. 17.
- Deaton, George H., Maywood, Ill. Record calendar. No. 1,427,786; Sept. 5.
- De Bardeleben, Hubert. (See Burford, O. L., and De Bardeleben.)
- De Barr, Rex, Los Angeles, Calif. Thumb-sucking preventer. No. 1,431,915; Oct. 10.
- De Bats, Jean H. L., Whitman, Mass., assignor, by mesne assignments, to Anatmos Metals and Furnace Corporation, New York, N. Y. Making high-speed cutting tools. No. 1,415,021; May 9.
- De Bats, Jean H. L., Zelenople, Pa., assignor, by mesne assignments, to Anatmos Metals and Furnace Corporation, New York, N. Y. Uniting hard-steel alloys to softer-steel bars. No. 1,434,047; Oct. 31.
- Debelack, Alexander. (See Debelack, George and A.)
- Debelack, George and A., Sheboygan, Wis. Game attachment for pocket-billiard tables. No. 1,409,527; Mar. 14.
- De Benedetti, Francesco, Turin, Italy. Screw jack. No. 1,419,544; June 18.
- De Benites, Celso H., Hartford, Conn. Musical instrument. No. 1,410,002; Mar. 21.
- Debladis, Gustave. (See Roileau, Henri, assignor.)
- Debney, Fred, Milwaukee, Wis. Attachment for sinks. No. 1,411,684; Apr. 4.
- De Bobrowski, Joseph, Los Angeles, Calif. Window sash. No. 1,436,086; Nov. 21.
- De Boe, John H., Louise, Miss. Rim lock. No. 1,439,613; Dec. 19.
- Debolt, Harry H., Morgantown, W. Va. Headlight dimmer. No. 1,412,654; Apr. 11.
- De Borgerave, Felix, Chicago, Ill. Vehicle wheel and resilient tire therefor. No. 1,424,086; July 25.
- De Borgerave, Felix, Chicago, Ill. Vehicle chassis. No. 1,439,614; Dec. 19.
- De Brayer, Alfred, Paris, France. Rotary machine for producing positive copies of negative cinema films. No. 1,432,676; Oct. 17.
- De Broeck, Joseph P., Santa Barbara, Calif. Curtain window. No. 1,418,539; June 6.
- De Bruine, Frederik H., Bandoeng, Java, East Indies. Ranging a rapidly-moving object and apparatus therefor. No. 1,420,913; June 27.
- Debs, Louis H., assignor of one-half to A. Cohn, Chicago, Ill. Pan and making the same. No. 1,438,698; Dec. 12.
- De Camp, Job, Van Wert County, near Grover Hill, Ohio. Farm-tractor wheel. No. 1,427,095; Aug. 29.
- De Camp, Lee, Oklahoma, Okla. Road machine. No. 1,402,148; Jan. 3.
- De Camp, Ray E., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system and switch mechanism therefor. No. 1,421,179; June 27.
- De Camp, Ray E., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,421,180; June 27.
- De Cano, Victor M., assignor to R. F. Starr, Chicago, Ill. Washboard. No. 1,405,764; Feb. 7.
- Decarie, Noel, Montreal, Quebec, Canada. Thermometer. No. 1,420,022; June 20.
- De Carlo, John, Brooklyn, N. Y. Camphor holder for pianos. No. 1,407,788; Feb. 28.
- Decatur, Burt W. (See Goodie, Fred J., assignor.)
- Decatur, Burt W., Springfield, Mass. Centering device. No. 1,404,096; Jan. 17.
- Decatur Supply & Fare Register Company. (See Ruebsamen, Albert, assignor.)
- Decatur Supply and Fare Register Company. (See Woods, C. H., and Ruebsamen, assignors.)
- De Cew, Judson A., Mount Vernon, N. Y. Lubricating emulsion. No. 1,428,148; Sept. 5.
- De Cew, Judson A., assignor to Process Engineers, Incorporated, New York, N. Y. Rosin material for sizing. No. 1,433,124; Oct. 24.
- Deck, John F. A., Okmulgee, assignor to Deck Tank Company, Tulsa, Okla. Clamp to be used on knockdown clamp tanks. No. 1,402,744; Jan. 10.
- Deck Tank Company. (See Deck, John F. A., assignor.)
- Decker, Alfred, & Cohn, Inc. (See Peine, Adolphus G., assignor.)
- Decker, Charles I., Sherman, Calif. Tonneau windshield. No. 1,421,181; June 27.
- Decker, Hugh L., assignor to the W. G. Nagel Electric Company, Toledo, Ohio. Electrical measuring instrument. No. 1,418,367; June 6.
- Decker, Lemuel B., Kenosha, Quebec, Canada. Paper-stock regulator. No. 1,423,555; July 25.
- Decker, Margaret, et al. (See Tracy, Laurence J., assignor.)
- Decker, Thomas H., Chicago, Ill. Detachable armrest for automobiles. No. 1,420,023; June 20.
- Decker, Edward L., Center, Mo. Machine for boring fence postholes. No. 1,412,343; Apr. 11.
- Deckert, Fedor E. and O. R., assignor to The Prosperity Co. Inc., Syracuse, N. Y. Garment-pressing machine. No. 1,430,954; Oct. 3.
- Deckert, Oscar R. (See Deckert, Fedor E. and O. R.)
- Deckert, Charles J. (See Karge, Maxwell R., assignor.)
- De Clamecy, Philippe, assignor to B. F. Sturtevant Company, Boston, Mass. Composition of matter for and method of soldering and welding aluminum. No. 1,415,925; May 16.
- De Clamecy, Philippe, assignor to B. F. Sturtevant Company, Boston, Mass. Humidifying air. No. 1,422,839; July 18.
- De Clamecy, Philippe, Boston, Mass., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,423,311; July 18.
- De Clamecy, Philippe, Boston, assignor to B. F. Sturtevant Company, Hyde Park, Mass. Steel and iron alloy. No. 1,428,534; Sept. 12.
- Declaye, Joseph, Liege, Belgium. Repeating or automatic rifle. No. 1,408,445; Mar. 7.
- Declaye, Joseph, Liege, Belgium. Small arm comprising a striker sliding in a breech bolt. No. 1,423,536; July 25.
- Declaye, Joseph, Liege, Belgium. Lock mechanism for automatic pistols. No. 1,434,328; Oct. 31.
- Declaye, Joseph, Liege, Belgium. Cartridge stop lever for tubular magazines of small arms. No. 1,435,282; Nov. 14.
- De Coninck, Arthur, Brussels, Belgium. Stabilizing device for automobile underframes. No. 1,404,585; Jan. 24.
- De Coninck, Arthur, Brussels, Belgium. Breaking system. No. 1,412,104; Apr. 11.
- De Coninck, Arthur, Brussels, Belgium. Self-lubricating pivot joint with regulation of the lateral play. No. 1,439,297; Dec. 19.
- De Correvont, Howard P. (See Wyckoff, A. D., and de Correvont.)
- De Cosmo, Joseph, Liege, Belgium. Two-stroke explosion engine. No. 1,413,974; Apr. 25.
- De Cosmo, Michael, Oakland, Calif. Direction indicator. No. 1,432,539; Oct. 17.

Alphabetical list of patentees—Continued.

- De Coster, Charles J., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Attachment for reeling machines. No. 1,416,000; May 16.
- De Coster, Charles J., Philadelphia, Pa., assignor to Western Electric Company, Incorporated, New York, N. Y. Winding mechanism for strands. No. 1,429,493; Sept. 19.
- De Coursey, William, San Francisco, Calif. Grinding machine. No. 1,431,444; Oct. 10.
- Decremier, Henry H., Luxemburg, Wis. Permutation lock. No. 1,439,154; Dec. 19.
- Decrow, David A., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Pump or compressor valve. No. 1,408,724; Mar. 7.
- Decuir, Joseph O., Houston, Tex. Oil burner. No. 1,423,650; July 25.
- Dederich, William, and S. Willner, London, England. Burner for fluid fuel. No. 1,417,146; May 23.
- Dederig, Fred P., Kiel, Wis. Tractor hitch. No. 1,407,843; Feb. 28.
- Dédet, René, Lamentin, Guadeloupe, France. Self-acting gauge. No. 1,407,388; Feb. 21.
- Dedichen, Jens, Berlin-Halensee, Germany, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Manufacture of diazotizable trisazo dyes. No. 1,416,621; May 16.
- Dedio, Thomas, Dnipro, Alberta, Canada. Scissors construction. No. 1,436,948; Nov. 28.
- De Dominicis, Vincent, and F. A. Reip, East Orange, N. J. Automobile traffic signal. No. 1,419,661; June 13.
- Dee, Daniel F. (See Shaddrick, B. M., and Dee.)
- Deeds, George W., Philadelphia, Pa. Sash lock. No. 1,418,290; June 6.
- Degan, Daniel J., Youngstown, Ohio. Perforator for printing presses. No. 1,421,417; July 4.
- Deeks, Hiram C. J., Sea Cliff, assignor to American Raylo Corporation, New York, N. Y. Color photography. No. 1,430,059; Sept. 26.
- Deeks, Hiram C. J., Sea Cliff, assignor to American Raylo Corporation, New York, N. Y. Color photography. No. 1,430,060; Sept. 26.
- Deeks, Hiram C. J., Sea Cliff, assignor to American Raylo Corporation, New York, N. Y. Color photography. No. 1,430,061; Sept. 26.
- Deeks, Hugh A., Moose Jaw, Saskatchewan, Canada. Means for filtering gasoline. No. 1,427,196; Aug. 29.
- Deems, Clarence O., Mission, Tex. Draft connection. No. 1,408,081; Feb. 28.
- Deep Sea Fisheries, Inc. (See Eaton, A. C., and Cameron, assignors.)
- Deep Well Engineering Company, The. (See Brandon, Arthur H., assignor.)
- Deer, A. J., Company, The. (See Prims, Joseph C., assignor.)
- Deer, A. J., Company, The. (See Williams, Ellis H., assignor.)
- Deer, A. J., Company Incorporated, The. (See Hill, Acton M., assignor.)
- Deere and Company. (See Brown, Theophilus, assignor.)
- Deere and Company. (See Dain, Joseph, assignor.)
- Deere & Company. (See Duffield, Wayne G., assignor.)
- Deere & Company. (See Holstein, John V., assignor.)
- Deere & Company. (See Livesay, Robert C., assignor.)
- Deere & Company. (See Neighbour, Leonard B., assignor.)
- Deere & Company. (See Selleck, Theodore G., assignor.)
- Deere & Company. (See Silver, Walter H., assignor.)
- Deere & Company. (See White, C. E., and Carlson, assignors.)
- Deere & Company. (See White, Charles H., assignor.)
- Deere and Company. (See Wilson, F. D., and Livesay, assignors.)
- Deere & Company. (See Wilson, Frederick D., assignor.)
- Deering, Walter L., et al. (See Tracy, Laurence J., assignor.)
- Deeter, Edward D., Miami, N. Mex. Method of and apparatus for the distillation of carbonaceous materials. No. 1,437,292; Nov. 28.
- Defaucoupret, Charles A., Paris, France. Delivering or bagging apparatus. No. 1,417,040; May 23.
- Defays, Victor. (See Choppinet, J., Gillon, and Defays.)
- De Fere, Paul E. (See Diamond, George, assignor.)
- De Fernelmont, Leonard H., Philadelphia, Pa. Building tile and wall made therefrom. No. 1,409,284; Mar. 14.
- Defiance Combination Auto Lock Corporation. (See Sokolov, Jacob, assignor.)
- Defiance Lock Corporation. (See Sokolov, J., and Wieneke, assignors.)
- Defiance Machine Works. (See Schwartz, Harry A., assignor.)
- De Florez, Luis, Boston, Mass. Flow-regulating apparatus. No. 1,426,718; Aug. 22.
- De Florez, Luis, Short Hills, N. J., assignor to Motor Petrol Company, New York, N. Y. Making motor fuel. No. 1,437,045; Nov. 28.
- De Forest, Lee, New York, N. Y. Radiosignaling system. No. 1,417,662; May 30.
- De Forest, Lee, New York, N. Y. Subterranean signaling system. No. 1,424,805; Aug. 8.
- De Forest, Lee, assignor to De Forest Radio Telephone and Telegraph Company, New York, N. Y. Oscillon. No. 1,437,498; Dec. 5.
- De Forest Radio Telephone and Telegraph Company. (See De Forest, Lee, assignor.)
- De Forrest, Charles E., Chester, Pa. Carburetor. No. 1,403,848; Jan. 17.
- De Frece, Jack. (See Clayden, F., and De Frece.)
- De Freudenreich, Jean, and André Spoerry, Zurich, Switzerland, assignors to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Toothed-wheel gearing. No. 1,408,568; Mar. 7.
- De Fries, Alfred, Cassel, Germany. Revolving press. No. 1,434,876; Nov. 7.
- Degen, Charles F., assignor of one-half to B. Charlet, Cambridge, Ill. Curtain and shade-roller fixture. No. 1,436,153; Nov. 21.
- Degen, Lewis, Oakland, Calif. Fire-alarm telegraph. No. 1,405,673; Feb. 7.
- Degener, Edward K., Lewistown, Mont. Bolt-retaining attachment for wrenches. No. 1,426,847; Aug. 22.
- Degenkolb, Paul F., Itasca, Ill. Polishing device. No. 1,404,839; Jan. 31.
- Degginger, Agnes H., New York, N. Y. Carrier for eggs, fruit, and the like. No. 1,412,779; Apr. 11.
- De Giers, Clarence A., assignor to Kelly Springfield Tire Company, New York, N. Y. Portable lathe tool. No. 1,407,015; Feb. 21.
- De Gowin, Isaac, assignor to The Seamless Rubber Company, Inc., New Haven, Conn. Ball. No. 1,423,837; July 25.
- De Gowin, Isaac, assignor to The Seamless Rubber Company, Inc., New Haven, Conn. Method and apparatus for covering balls. No. 1,423,838; July 25.
- De Grasse, Consuelo, née Fould, Paris, France. Jointed lay figure, model, or doll. No. 1,422,840; July 18.
- De Gregory, Alfred, Brooklyn, N. Y. Baking pan. No. 1,407,131; Feb. 21.
- De Grouchy, Francis, Irvington, N. J. Work support. No. 1,431,876; Oct. 10.
- De Guardia-Calmètes, Paul, Perpignan, France. Machine for the transformation of reeds into slats or strips. No. 1,420,914; June 27.
- Deguide, Camille, Enghien, France. Continuous process for the manufacture of caustic soda or caustic potash. No. 1,440,211; Dec. 26.
- De Guise, Joseph A. P., Sorel, Quebec, Canada. Padlock. No. 1,432,677; Oct. 17.
- De Haven, Gilbert E., and O. G. Schaaf, San Francisco, Calif., assignors to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,432,678; Oct. 17.
- Dehetre, Philip J., Huntington Beach, Calif. Flexible rotary track layer. No. 1,439,298; Dec. 19.
- Dehlin, August G., assignor of one-third to E. Nelson, Olympia, Wash. Shingle-machine spur roll ratchet. No. 1,428,362; Sept. 5.
- Dehn, William M., Seattle, Wash. Primary detonating composition. No. 1,404,687; Jan. 24.
- Dehn, William M., Seattle, Wash. Increasing the sensitiveness and power of explosive compositions and product thereof. No. 1,428,011; Sept. 5.
- De Hoog, Wilhelmus J. B., Johannesburg, Transvaal, South Africa. Eliminating errors in bookkeeping and the like. No. 1,433,343; Oct. 24.
- Delbel, Earnest C., et al. (See Smith, Harry W., assignor.)
- Delbert, Charles J., assignor of one-half to C. H. Peck, Philadelphia, Pa. Engine piston. No. 1,433,987; Oct. 31.
- Deichmann, Artur, Cologne-Marienburg, Germany. Golf-stroke counter. No. 1,421,070; June 27.
- Deily, Arthur T., Indianapolis, Ind. Dust collector. No. 1,408,693; Mar. 7.
- Deister, Emil, Fort Wayne, Ind. Automobile wheel. No. 1,432,540; Oct. 17.
- Deister, Emil, assignor to Deister Machine Company, Fort Wayne, Ind. Head motion for concentrating tables. No. 1,433,500; Oct. 24.
- Deister Machine Company. (See Deister, Emil, assignor.)
- Deitz, Frank W., Cleveland, Ohio. Quick-equalizing marker. No. 1,428,582; Sept. 12.
- De Jacob, Charles A., Newport, Ky. Heating drum. No. 1,423,651; July 25.
- De Jahn, Fredrik W., assignor to Atmospheric Nitrogen Corporation, New York, N. Y. Synthetic production of ammonia. No. 1,436,949; Nov. 28.
- De Julian, Angelo, West Palm Beach, Fla. Roofing tile. No. 1,414,774; May 2.
- Dekin, Le Roy J., Ilion, N. Y. Egg beater. No. 1,437,133; Nov. 28.
- Dekker, John E., Oak Park, Ill., assignor to The Buffalo Sled Company, North Tonawanda, N. Y. Wheel mounting. No. 1,402,149; Jan. 3.
- De Lackner, John, Long Island City, N. Y. Cork for thermos bottles. No. 1,411,283; Apr. 4.
- De la Fontaine, Charles J., Dallas, Tex., assignor to Trinity Folding Booth Company, St. Louis, Mo. Folding booth. No. 1,407,260; Feb. 21.
- De la Hunt, Thomas W., Buffalo, N. Y. Molding device. No. 1,436,242; Nov. 21.
- De Laitte, Leopold B., assignor, by mesne assignments, to M. Erdin, San Francisco, Calif. Cook stove. No. 1,420,688; June 27.
- Delamater, George R., Steelton, Pa. Mineral sampler. No. 1,414,726; May 2.

- De La Monte, Cascio H., assignor to International Motor Company, New York, N. Y. Radiator. No. 1,404,304; Jan. 24.
- Delaney, Laurence F., Watertown, N. Y. Means for turning motor vehicles. No. 1,420,307; June 20.
- Delano, Frank, et al. (See Power, Dudley P., assignor.)
- Delano, James K., New York, N. Y. Engine-starting apparatus. No. 1,415,551; May 9.
- Delano, James K., New York, N. Y. Starting and lighting system for motor vehicles. No. 1,419,825; June 13.
- Delano, James K., New York, N. Y. Electric-motor vehicle. No. 1,423,090; July 18.
- Delany, Patrick B., South Orange, N. J. Sound-reproducing diaphragm. No. 1,403,849; Jan. 17.
- Delany, Patrick B., South Orange, N. J. Sound-reproducing device. No. 1,415,807; May 9.
- De La Parelle, Grace, Eagle Rock, Calif. Musical instruction blocks. No. 1,431,529; Oct. 10.
- De Lape, David E., Los Angeles, Calif. Treating fibrous materials. No. 1,417,889; May 30.
- Delaplaine, Aubrey C., Cynwyd, assignor to Breuker & Kessler Company, Philadelphia, Pa. Chart for illustrating the subdivision of meat carcasses into cuts of meat. No. 1,403,896; Jan. 17.
- De Lapotterie, Otto H., Kent, Ohio, assignor to Townsend Company, New Brighton, Pa. Method and apparatus for forming headed articles. No. 1,417,806; May 30.
- De La Rue, Edward B., Devon, Pa. Egg incubation. No. 1,433,262; Oct. 24.
- De Launty, Reuben H., Chicago, Ill. Trailer. No. 1,413,105; Apr. 18.
- De Launty, Reuben H., Chicago, Ill. Trailer-steering device. No. 1,422,040; July 4.
- De Laval Separator Company, The. (See Baughman, Alton L., assignor.)
- De Laval Separator Company, The. (See Daysh, N. J., and Hapgood, assignors.)
- De Laval Separator Company, The. (See Hall, Selden H., assignor.)
- De Laval Separator Company, The. (See Hapgood, Cyrus H., assignor.)
- De Laval Separator Company, The. (See Heller, Jesse B., assignor.)
- De Laval Separator Company, The. (See Hulbert, John L., assignor.)
- De Laval Separator Company, The. (See Leitch, Meredith, assignor.)
- De Laval Separator Company, The. (See Miller, Theodore H., assignor.)
- De Laval Separator Company, The. (See Leitch, Meredith, assignor.)
- De Laval Separator Company, The. (See Snyder, Frank S., assignor.)
- De Laval Separator Company, The. (See Wright, Bert R., assignor.)
- De Laval Steam Turbine Company. (See Peterson, Arvid, assignor.)
- De Laval Steam Turbine Company. (See Waller, Carl R., assignor.)
- De Lavaud, Dimitri S. (See Lavaud, D. S., Clark, and Baines.)
- De Lavaud, Dimitri Sensaud, New York, N. Y. Topographic recorder. No. 1,427,267; Aug. 29.
- Delaware Chemical Engineering Co. (See du Pont, Francis I., assignor.)
- Delbare, Hector E., Chicago, Ill. Ribbon-inking attachment for typewriters. No. 1,414,865; May 2.
- Delbon, Frank G., Brooklyn, N. Y. Shank stiffener. No. 1,432,160; Oct. 17.
- Delbridge, Thomas G., assignor to The Atlantic Refining Company, Philadelphia, Pa. Treating wax. No. 1,438,985; Dec. 19.
- Delco-Light Company. (See Grant, Ralph H., assignor.)
- Delco-Light Company. (See Keilboltz, Lester S., assignor.)
- Delco-Light Company. (See Kettering, Charles F., assignor.)
- Delco-Light Company. (See Midgley, Thomas, Jr., assignor.)
- Delémont, Ernest, Marseille, France. Vaporizing device for heating apparatus. No. 1,428,150; Sept. 5.
- De Leeuw, Adolph L., Plainfield, N. J., assignor to The Singer Manufacturing Company. Gauge. No. 1,416,694; May 23.
- De Leeuw, Adolph L., Plainfield, N. J. Mechanical movement. No. 1,430,496; Sept. 26.
- De Lemon, Max, and A. Malec, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Electric resistance welding mechanism. No. 1,434,374; Nov. 7.
- Deléry, Eugene F., New Orleans, La. Thrust-balancing means for pumps, turbines, or the like. No. 1,404,346; Jan. 24.
- De Lestang-Parade, Jacques C. J., Paris, France. Controlling and regulating device for gaseous fluids. No. 1,434,102; Oct. 31.
- De Lestang-Parade, Jacques C. J., Paris, France. Automatic regulator for the distribution of predetermined quantities of gas under variable atmospheric pressures. No. 1,434,103; Oct. 31.
- Del Favero, George, Cleveland Ohio. Garment fastener. No. 1,437,727; Dec. 5.
- Delfino, José, Buenos Aires, Argentina. Lubricating hub for circular plow knives. No. 1,410,896; Mar. 28.
- Del Gindice, Angelo. (See Gentile, P., and Del Gindice.)
- De Lhorbe, William, Oregon, Ill. Septic tank. No. 1,407,389; Feb. 21.
- Delia, Egidio, and V. Corrado, New York, N. Y. Fan for sewing machines. No. 1,417,470; May 23.
- De Ligne, Albert M. (See Rouse, J. H., and de Ligne.)
- De Lisle, Harold L., Chicago, Ill. Dispensing device for sheet material in rolls. No. 1,409,363; Mar. 14.
- De Lisle, Thomas C., Los Angeles, Calif. Display device. No. 1,431,637; Oct. 10.
- Delk, George, assignor of one-half to E. F. Tschohl, South Milwaukee, Wis. Rail frog. No. 1,428,220; Sept. 5.
- Delkeskamp, Henry D. (See Mulherin, James A., assignor.)
- Dell, Emory E., Detroit, Mich. Safety booth for cashiers' cages. No. 1,419,960; June 20.
- Dell, John N., San Francisco, Calif. Soap holder, strainer, and scoop. No. 1,419,545; June 13.
- Dell, John N., San Francisco, Calif. Match scratcher. No. 1,425,453; Aug. 8.
- Della Veneria, Zaverio R., Turin, Italy. Electric starter for internal-combustion engines. No. 1,433,760; Oct. 31.
- Della Veneria, Zaverio R., Turin, Italy. Pressure gauge. No. 1,437,728; Dec. 5.
- Dellarowe, A. K., et al. (See Martin, Charles H., assignor.)
- Dellenberger, A. J. (See Bessler, Frank E., assignor.)
- Dellenbarger, Charles E., Chicago, Ill. Sheet-cutting machine. No. 1,407,016; Feb. 21.
- Delling, Alwin, Nordhausen, assignor of one-half to A. Wasmuth and one-fourth to J. Huppertz, Hamburg, Germany. Bleaching tobacco. No. 1,437,095; Nov. 28.
- Dellinger, Abraham M., Lancaster, Pa. Grinding disk. No. 1,415,808; May 9.
- Del Mar, Harry, New York, N. Y. Dumb-waiter attachment. No. 1,403,296; Jan. 10.
- Del Marmol, Charles J., Frankford, Pa. Reproducer. No. 1,424,087; July 25.
- Del Moral, José, East Orange, N. J. Rotary steam engine. No. 1,428,477; Sept. 5.
- Delmore Manufacturing Co. Inc. (See Billings, Cecil M., assignor.)
- Delmore Manufacturing Company. (See Smith, Bronson H., assignor.)
- Deloghia, Louis E. (See Perkins, J. L., Deloghia, and Croft.)
- De Long Hook and Eye Company, The. (See Upham, Gilbert R., assignor.)
- De Long, Willard W., Seattle, Wash. Milk-bottle carrier. No. 1,424,995; Aug. 8.
- Delony, William T., Pensacola, Fla. Headlight. No. 1,435,108; Nov. 7.
- De Loree, George. (See Severence, F. J., Todd, and De Loree.)
- Delph, Asa G., and R. C. Hemphill, Kansas City, Mo. Lock. No. 1,422,936; July 18.
- Delpierre, Henri. (See Willien, M. F., and Delpierre.)
- Delsing, Edward C., Chicago, Ill., assignor, by mesne assignments, to Kwik-Kut Knife Co., St. Louis, Mo. No. 1,439,507; Dec. 19.
- Delson, John M., Chicago, Ill. Ear muff. No. 1,438,171; Dec. 12.
- Delta Electric Company. (See Case, Arthur E., assignor.)
- Delubac, Auguste, Vals-les-Bains, France. Substitute for fabrics, leather, furs, sponges, etc., from cocoons, and making same. No. 1,425,948; Aug. 15.
- De Luiz, Edward R. (See Kolbe, F. H., and De Luiz.)
- De Lukasevics, Charles, and E. Loffer, New York, N. Y. Engine piston. No. 1,407,667; Feb. 21.
- Delune, Marcel, assignor to Société d'Exploitation des Brevets Dupuis, Paris, France. Cinema and analogous projection apparatus. No. 1,417,807; May 30.
- Del Vecchio, Fred. (See Rose, James F., assignor.)
- Delzell, Harold W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Making belts. No. 432,973; Oct. 24.
- Delzell, Walter C., Los Angeles, Calif. Blade-grinding device. No. 1,438,098; Dec. 5.
- Demand, Joseph, New York, N. Y. Windshield cleaner. (Reissue.) No. 15,331; Apr. 11.
- De Marco, Eugenio, Cleveland, Ohio. Window cleaner. No. 1,431,934; Oct. 17.
- Demarco, Joseph, Kolze, Ill. Car truck. No. 1,428,764; Sept. 12.
- Demarco, Lawrence A. (See Ankener, H. E., and Demarco.)
- Demarest, Charles S., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Repeater-network-selecting apparatus. No. 1,405,501; Feb. 7.
- Demarest, Charles S., Brooklyn, N. Y., and O. H. Loynes, Wood Ridge, N. J., assignor to American Telephone and Telegraph Company. Repeater apparatus. No. 1,410,003; Mar. 21.
- Demarest, William G., Metuchen, N. J. Wall construction. No. 1,426,048; Aug. 15.
- De Markus, Louis, Montrose, assignor to McKenna Brass & Manufacturing Company, Inc., Pittsburgh, Pa. Controlling system. No. 1,430,290; Sept. 26.
- De Márquez, Alberto, New York, N. Y. Perforating machine. No. 1,439,615; Dec. 19.

Alphabetical list of patentees—Continued.

- De Martin, Charles L., and H. C. Foster, assignors to Indiana Lamp Company, Connersville, Ind. Lamp construction. No. 1,403,672; Jan. 17.
- De Martino, Joseph, assignor to J. H. Lee, trustee, Chicago, Ill. Planetary clutch. No. 1,410,384; Mar. 21.
- De Martino, Joseph, assignor to J. H. Lee, trustee, Chicago, Ill. Clutch and transmission. No. 1,428,221; Sept. 5.
- De Martino, Joseph, assignor to J. H. Lee, trustee, Chicago, Ill. Clutch and transmission. No. 1,431,100; Oct. 3.
- De Martino, Joseph, assignor to Mechanical Improvement Co., Chicago, Ill. Power-transmission mechanism. No. 1,431,781; Oct. 10.
- De Mattia, Barthold, Clifton, N. J. Making shoes or casings for pneumatic tires. No. 1,428,419; Sept. 5.
- De Mattia, Barthold, Clifton, N. J. Machine for cutting and feeding tire-making fabric. No. 1,428,420; Sept. 5.
- De Mauraige, Charles, St. Sixte, Quebec, Canada. Bayonet. No. 1,419,961; June 20.
- Demers, Joseph J., Watertown, assignor to Trimont Manufacturing Company, Boston, Mass. Wrench. No. 1,430,955; Oct. 3.
- De Meurisse, Alfred, New York, N. Y. System for keeping accounts. No. 1,402,578; Jan. 3.
- De Mier, Fred, Picher, Okla. Ore jig. No. 1,420,975; June 27.
- Deming, William L., Salem, Ohio. Bathing apparatus. No. 1,416,270; May 16.
- Deming, William M., Fairview, Mont. Double capsule. No. 1,419,618; June 13.
- De Minico, Frank, assignor to Pollard-Alling Manufacturing Company, New York, N. Y. Printing machine. No. 1,410,385; Mar. 21.
- De Minico, Frank, assignor to Pollard-Alling Manufacturing Company, New York, N. Y. Printing machine. No. 1,421,920; July 4.
- De Minico, Frank, assignor to Pollard-Alling Manufacturing Company, New York, N. Y. Sheet-feeding mechanism. No. 1,428,149; Sept. 5.
- De Miranda, Joao S., Taubate, Brazil. Articulated chassis for automobiles. No. 1,439,802; Dec. 26.
- Demko, Josef, Zabrokreky, and P. Greschner, Nemecky Pravno, Czechoslovakia. Watch and clock. No. 1,424,195; Aug. 1.
- Demlinger, Morris, Chicago, Ill. Crib. No. 1,418,541; June 6.
- Demmer, Paul E., assignor to D. & W. Specialty Company, Marysville Calif. Bumper. No. 1,422,546; July 11.
- Demming, William J., assignor to The American Multi-graph Company, Cleveland, Ohio. Holder for printing strips and making same. No. 1,438,584; Dec. 12.
- Demmler, Paul E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermostat. No. 1,406,352; Feb. 14.
- Demole, Charles R., Geneva, Switzerland. Suspension device for electric traction motors. No. 1,425,454; Aug. 8.
- De Mole, Lancelot E., North Adelaide, South Australia, Australia. Road vehicle. No. 1,408,569; Mar. 7.
- De Money, Earle R. (See Ramsey, J. A., and de Money.)
- De Moss, Harold H., Clarksburg, W. Va. Rail tie. No. 1,439,073; Dec. 19.
- De Mott, Benyew H., Millington, N. J. Soil-working implement. No. 1,428,880; Sept. 12.
- De Mount Battery Corporation et al. (See Knoblock, William, assignor.)
- Dempewolf, Charles H., Oswego, N. Y. Combined tumbler, toothbrush, and tube-paste holder. No. 1,407,347; Feb. 21.
- Dempsey, Arthur E., Council Bluffs, Iowa. Candy cutter. No. 1,402,923; Jan. 10.
- Dempsey, Harry B., New York, N. Y. Recuperative furnace. No. 1,430,630; Oct. 3.
- Dempsey, John H., Cleveland, Ohio. Arch brick. No. 1,434,877; Nov. 7.
- Dempsey, Senterlow, Chicago, Ill. Chocolate-candy cooler. No. 1,414,553; May 2.
- Dempsey, William J., San Francisco, Calif. Garter clasp. No. 1,402,403; Jan. 3.
- Demuth, Alfred M., assignor to Demuth Manufacturing Company, Chicago, Ill. Steam table for food. No. 1,430,006; Sept. 26.
- Demuth, Alfred M., Chicago, Ill. Meat shaper and press. No. 1,432,161; Oct. 17.
- Demuth, John A., Oberlin, Ohio. Time-controlled symbol-displaying device. No. 1,404,688; Jan. 24.
- Demuth Manufacturing Company. (See Demuth, Alfred M., assignor.)
- Demven, Joseph, Philadelphia, Pa. Tension pad for let-off pulleys. No. 1,435,590; Nov. 14.
- Den Besten, Gerrit. (See Hulsebos, A. B., and Besten.)
- Denbrook, Fred W., Fond du Lac, Wis. Motor-driven sled. No. 1,422,751; July 11.
- Denevan, Leo F., Bovill, Idaho. Priming cup. No. 1,432,841; Oct. 24.
- Dengler, Clarence E., Rochester, N. Y. Anchoring member for electrical fixtures. No. 1,440,137; Dec. 26.
- Denham, Frederick C., Wellington, assignor of one-half to A. F. Davey, Taunton, England. Brake lever. No. 1,416,338; May 16.
- Denham, William L., Birmingham, Ala. Aeroplane. No. 1,419,962; June 20.
- Denuke, William N., Winnipeg, Manitoba, Canada. Planter. No. 1,435,818; Nov. 14.
- Dens, Henry, Hayden, Ariz. Valve grinder. No. 1,437,293; Nov. 28.
- Denis, Maurice, Paris, France. Machine for spinning, washing, and drying viscose threads. No. 1,408,350; Feb. 28.
- De Nise, George R., Rochester, Minn. Temporary tooth. No. 1,436,016; Nov. 21.
- Denison, Julian F., New Haven, Conn. Vehicle wheel drive. No. 1,427,584; Aug. 29.
- Denison, Nathan B., Pawtucket, R. I., assignor to Peerless Baking Equipment Company, Boston, Mass. Gas burner. No. 1,412,044; Apr. 11.
- Denison, Peter, Racine, Wis. Coupling. No. 1,426,628; Aug. 22.
- Denisow, Peter, Racine, Wis. Velocipede. No. 1,436,950; Nov. 28.
- De Nisson, Alfred C. and F. D. Christie, Seattle, Wash. Attachment for monotype machines for making border rules and dotted rules. No. 1,429,720; Sept. 19.
- Denizot, Paul, administrator. (See Lentz, Georges.)
- Denman, Earl W., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Time switch. No. 1,433,704; Oct. 31.
- Denmire, Harold A., assignor of one-half to The General Tire and Rubber Company, Akron, Ohio. Collapsible tire core. No. 1,421,418; July 4.
- Denmire, Harold A., assignor to The General Tire and Rubber Company, Akron, Ohio. Applying washers to rubber-heel molds. No. 1,435,218; Nov. 14.
- Denmun, Charles, et al. (See Wagner, Leslie A., assignor.)
- Denne, George F., Chicago, Ill. Water cooler. No. 1,428,945; Sept. 12.
- Denne, Mark T., Rushden, England. Needle-guide-controlling means for sewing machines. No. 1,417,978; May 30.
- Dennedy, James H., assignor to Kelvinator Corporation, Detroit, Mich. Compressor. No. 1,407,518; Feb. 21.
- Dennedy, James H., assignor to Kelvinator Corporation, Detroit, Mich. Compressor. No. 1,416,695; May 23.
- Dennedy, James H., assignor to Kelvinator Corporation, Detroit, Mich. Compressor. No. 1,416,696; May 23.
- Dennes, Oscar L., Ardmore, Okla. Vehicle signal. No. 1,425,842; Aug. 15.
- Dennett, Gordon W., San Francisco, Calif. Decoy. No. 1,409,285; Mar. 14.
- Dennig, Alexander J., Minneapolis, Minn. Separator. No. 1,418,866; June 6.
- Dennin, E. Augustus. (See Smith, Frank E., assignor.)
- Denning, Homer C., Lance Creek, Wyo. Parting tool for well casings. No. 1,413,522; Apr. 18.
- Denning, Joseph M., Denver, Colo., assignor, by mesne assignments, to General Ordnance Corporation, New York, N. Y. Tractor. (Reissue.) No. 15,420; July 25.
- Dennis, Alva L., Detroit, Mich. Flange wrench. No. 1,406,824; Feb. 14.
- Dennis, Cyril, et al. (See Dobney, Ernest, assignor.)
- Dennis, Edward A., Spencer, Iowa. Truck turntable and gravel spreader. No. 1,412,389; Apr. 11.
- Dennis, Francis E., et al. (See Dobney, Ernest, assignor.)
- Dennis, Howard B., assignor of one-fourth to F. W. Nobs and one-fourth to G. W. Starr, Grass Valley, Calif. Shoveling machine. No. 1,414,398; May 2.
- Dennis, Little D., Philadelphia, Pa. Propeller. No. 1,413,392; Apr. 18.
- Dennis, Oliver C., Wilmette, Ill. Adjustable jack. No. 1,428,535; Sept. 12.
- Dennis, Samuel K., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Cultivator. No. 1,408,990; Mar. 7.
- Dennis, Thomas L., assignor to G. F. Parker, New York, N. Y. Electric-wire swivel coupling. No. 1,404,097; Jan. 17.
- Dennis, Thomas L., assignor to G. F. Parker, New York, N. Y. Electric swivel-coupling lock. No. 1,404,098; Jan. 17.
- Dennis, Thomas L., Jr., Staten Island, N. Y. Synchronizing mechanism. No. 1,432,055; Oct. 17.
- Denny, James J. (See Fairlie M. F., and Denny.)
- De Nobili, Fannie P., executrix. (See De Nobili, Frank P.)
- De Nobili, Frank P., deceased, by F. P. De Nobili, executrix, Los Angeles, Calif. Mail box. No. 1,404,099; Jan. 17.
- De Nobili, Frank P., deceased; by F. P. De Nobili, executrix, Los Angeles, Calif. Umbrella ring. No. 1,410,173; Mar. 21.
- Denoël, Joseph, Lembeq, Belgium. Apparatus for testing the sizing of paper. No. 1,404,586; Jan. 24.
- Denoël, Joseph, Lemberg, Belgium. Decantation apparatus. No. 1,427,446; Aug. 29.
- De Nolly, Hector, assignor to La Societe Metallurgique du Frayol, Lyon, France. Electric furnace. No. 1,417,303; May 23.
- Denson, Benjamin E., Columbus, Ga. Traction-increasing device. No. 1,430,291; Sept. 26.
- Dent, Robert K., Akron, Ala. Ice-cream container. No. 1,425,241; Aug. 8.
- Dental Manikin Head Co. (See Mallon, Vincent, assignor.)
- Dentists' Supply Company. (See Duffy, Charles J., assignor.)
- Dentists' Supply Company, The. (See Pullen, Percy J., assignor.)
- Dentist's Supply Company, The. (See Whiteley, Joseph O., assignor.)

- Denton, Frederick G., and M. Angus, Low Fell, Gateshead, England. Packing for glands, stuffing boxes, and the like. No. 1,421,356; June 27.
- Denton, Lemi B., Pocatello, Idaho. Tractor attachment for automobiles. No. 1,414,938; May 2.
- Denver Rock Drill Manufacturing Company, The. (See Clark, Omar E., assignor.)
- Denver Rock Drill Manufacturing Company, The. (See Nell, Gustave M., assignor.)
- Denver Rock Drill Manufacturing Company, The. (See Smith, William A., assignor.)
- Denyes, Harry M., Saginaw, assignor to General Motors Corporation, Detroit, Mich. Steering mechanism for automobiles. No. 1,425,753; Aug. 15.
- Denyes, Harry M., Saginaw, assignor to General Motors Corporation, Detroit, Mich. Steering mechanism for motor vehicles. No. 1,425,754; Aug. 15.
- Denyes, Harry M., Saginaw, assignor to General Motors Corporation, Detroit, Mich. Steering-column assembly. No. 1,438,935; Dec. 12.
- De Olaneta, Harold, assignor to Winchester Repeating Arms Company, New Haven, Conn. Manufacture of primary cells. No. 1,402,285; Jan. 3.
- De Olaneta, Harold, assignor to The Winchester Repeating Arms Company, New Haven, Conn. Machine for making paper cups and the like. No. 1,402,286; Jan. 3.
- De Olaneta, Harold, assignor to Winchester Repeating Arms Company, New Haven, Conn. Manufacture of dry cells. No. 1,430,726; Oct. 3.
- De Olaneta, Harold, assignor to Winchester Repeating Arms Company, New Haven, Conn. Manufacture of dry cells. No. 1,430,727; Oct. 3.
- De Olaneta, Harold, assignor to Winchester Repeating Arms Company, New Haven, Conn. Machine for assembling dry cells. No. 1,430,728; Oct. 3.
- Depee, Roy. (See Scribner, E. W., and Depee.)
- Depollier, Charles F. (See Brun, Joseph, assignor.)
- Deppe, John H., Asheville, N. C. Attachment for clutch-control pedals. No. 1,433,805; Oct. 31.
- De Procoudine-Gorsky, Serge, Granstad, Konnerud, near Drammen, Norway. Apparatus for the production of colored cinematographic films. No. 1,412,089; Apr. 11.
- De Procoudine-Gorsky, Serge, Granstad, Konnerud, near Drammen, Norway. Printing apparatus for the production of diapositives. No. 1,413,873; Apr. 25.
- De Procoudine-Gorsky, Serge, Konnerud, near Drammen, Norway. Production of colored diapositives. No. 1,435,283; Nov. 14.
- Deputy, Harry S., Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Co., Toledo, Ohio. Glass-cutting mechanism. No. 1,407,736; Feb. 28.
- Derans, Oscar A., assignor to Svenska Aktiebolaget Nobel-Diesel, Nynäshamn, Sweden. Two-cycle engine. No. 1,405,975; Feb. 7.
- Derby, Albert T., San Francisco, Calif. Grease-gun wrench. No. 1,404,434; Jan. 24.
- Derby, Lee M., Minneapolis, Minn. Game apparatus. No. 1,412,204; Apr. 11.
- Derby Tire Co. (See Droepe, Clarence J., assignor.)
- Derby, William V., Baltimore, Md., assignor to The Crown Cork and Seal Company of Baltimore City. Packaging apparatus. No. 1,418,631; June 6.
- Derbyshire, Raymond A., Skowhegan, Me. Dental instrument. No. 1,435,902; Nov. 14.
- Derbyshire, William H., jr., Chambersburg, Pa. Expansion wedge. No. 1,440,281; Dec. 26.
- De Regnaud de Bellescize, Henri J. J. M., Toulon, France. Circuit receiver. No. 1,429,572; Sept. 19.
- De Remer Blatchford Company. (See Badger, Le Roy H., assignor.)
- Derifield, Fernando J., Boise, Idaho. Valve grinder. No. 1,431,514; Oct. 10.
- Derihon, Ernest, Liege, assignor to the Société Anonyme Usines Derihon, Loncin-lez-Liege, Belgium. Shock absorber for motor cars and other suspended vehicles. No. 1,435,053; Nov. 7.
- Dermatological Research Laboratories. (See Schamberg, J. F., and Rajziss, assignors.)
- Dernbach, Charles S., Wausau, Wis. Machine for dressing and cleaning wood surfaces. No. 1,410,554; Mar. 28.
- De Rochefort-Lucay, Claude, New York, N. Y. Metallic photographic projection screen. No. 1,403,742; Jan. 17.
- De Rome, Raphael A., Chicago, Ill. Artificial tooth. No. 1,403,297; Jan. 10.
- De Rome, Raphael A., Chicago, Ill. Artificial tooth. No. 1,439,508; Dec. 19.
- De Roo, John C., Cincinnati, Ohio. Mop. No. 1,419,234; June 18.
- Derr, Thomas S., Brookline, Mass. Fluid-fuel burner. No. 1,423,312; July 18.
- Derr, William R., New York, N. Y. Clothesline and locking clothespin therefor. No. 1,433,344; Oct. 24.
- Derrien, Georges. (See Bonneau, E. E. J., La Prieur, and Derrien.)
- Derry, Herbert G., Vermont, Ill. Wheel and gear puller. No. 1,431,378; Oct. 10.
- Dersom, John J., Columbus, Ohio. Mechanical stoker. No. 1,421,419; July 4.
- Derungs, Ernest A., assignor to Societe Anonyme Ateliers Otis Pifre, Paris, France. Aerial ropeway for transport and haulage. No. 1,404,840; Jan. 31.
- De Ruvo, Joseph, New York, N. Y. Hair curler. No. 1,404,587; Jan. 24.
- De Ruyter, Hazard. (See Lépine, Charles, assignor.)
- Dery, Theodore J., Windsor, Ontario, Canada. Pressure-retaining dust cap for pneumatic-tire valves. No. 1,421,420; July 4.
- De Santis, Salvatore, Naples, Italy. Means for stabilizing aeroplanes. No. 1,425,455; Aug. 8.
- De Santo, David, assignor to The Wilkes-Casey Engineering and Contracting Company Incorporated, New Rochelle, N. Y. Bucket trip for steam excavators. No. 1,435,109; Nov. 7.
- Desautels, Charles H., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Steam connection for collapsible cores. No. 1,434,431; Nov. 7.
- Desbains, Antoine, Montreal, Quebec, Canada. Measuring device. No. 1,411,911; Apr. 4.
- Deschamps, Albert, Paris, France. Suspension means for motor cars. No. 1,416,797; May 23.
- Deschauer, Alfons, Bonn, Germany. Chlorination of Montan wax. No. 1,429,932; Sept. 26.
- Deschner, Charles A., Portland, Oreg. Foot throttle control. No. 1,416,798; May 23.
- De Sevo, Raphael, East Longmeadow, Mass. Lock. No. 1,420,186; June 20.
- Desilets, William, La Fleche, Saskatchewan, Canada. Scraper. No. 1,402,579; Jan. 3.
- Des Isles, Leonard H., Chicago, Ill. Multicontact electrical connection. No. 1,435,819; Nov. 14.
- Des Isles, Leonard H., Chicago, Ill. Conduit for temperature circuits of grain tanks. No. 1,438,751; Dec. 12.
- De Simone, M. G., Stapleton, N. Y., assignor to John E. Smith's Sons Co. Butter-serving machine. No. 1,440,138; Dec. 26.
- Des Jardins, Edmund L., Chicago, Ill. Automatic oil cup. No. 1,404,347; Jan. 24.
- Desjardins, John J., Marinette, Wis. Attachment for radiators. No. 1,417,504; May 30.
- Desler, Arthur C., Radford, Va. Means for connecting automobile bodies to the chassis. No. 1,422,086; July 11.
- Desmarest, Henri G. G., Paris, France. Saucepan. No. 1,425,371; Aug. 8.
- Desmoulins, Emile, Paris, France. Change-speed mechanism. No. 1,407,643; Feb. 21.
- Desobry, Charles W., Indianapolis, Ind. Bottle-filling machine. No. 1,419,235; June 13.
- Des Parcis, Aristide H., Montreal, Quebec, Canada. Heating apparatus. No. 1,422,087; July 11.
- Despard, Victor R., Hinsdale, Ill., assignor, by mesne assignments, to McGill Manufacturing Company, Valparaiso, Ind. Mechanical movement. No. 1,425,180; Aug. 8.
- Des Parois, Aristide H., Montreal, Quebec, Canada. Heating apparatus. No. 1,422,088; July 11.
- De Sperati, Mariano, Turin, Italy. Preparation of plates for printing by greasy ink. No. 1,433,806; Oct. 31.
- Despres, Louis F., Lebanon, N. H. Lamp wrench. No. 1,404,349; Jan. 24.
- Desrochers, Arthur, Thetford Mines, Quebec, Canada. Railway switch. No. 1,411,844; Apr. 4.
- Desrochers, Maximilian, Montreal, Quebec, Canada. Holder for pencils and the like. No. 1,416,799; May 23.
- Des Roches, Hilton H., Butte, Mont. Toy. No. 1,433,189; Oct. 24.
- Des Roches, Hilton H., assignor of one-half to M. J. Scott, Butte, Mont. Detachable bit for drills. No. 1,423,713; July 25.
- Des Rosier, Narcisse, Detroit, Mich. Window-shifting mechanism. No. 1,417,147; May 23.
- Des Rosiers, John A., and M. W. Webb, Edmonton, Alberta, Canada. Signal. No. 1,409,135; Mar. 7.
- Dessard, Jean, Herstal-lez-Liege, Belgium. Hammerless small arm. No. 1,430,218; Sept. 26.
- Desselle, Peter J., assignor of one-half to F. Clegg, Weir, Kans. Socket for miners' drills. No. 1,412,678; Apr. 11.
- De Stefano, Jacob, assignor of one-half to P. Rappas, Kansas City, Mo. Life-saving device for submarines. No. 1,428,012; Sept. 5.
- De Steigner, Walter G., San Diego, Calif. Continuous kiln. No. 1,407,192; Feb. 21.
- De Stubner, Emile, New York, N. Y., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Making molds and apparatus therefor. No. 1,430,859; Oct. 3.
- De Sveshnikoff, Woldemar, Washington, D. C. Recovering waste nitric fumes. No. 1,406,353; Feb. 14.
- Detjen, Henry, Manitowoc, Wis. Coupon-cutting device. No. 1,416,800; May 23.
- Det Norske Aktieselskab for Elektrokemisk Industri. (See Goldschmidt, V. M., and Ravner, assignors.)
- Det Norske Aktieselskab for Elektrokemisk Industri. (See Sem, Mathias O., assignor.)
- De Toni, Carlo, Verona, Italy. Chuck for stationary vertical drilling machines. No. 1,403,149; Jan. 10.
- De Tonnancour, Rene G. (See David, Leoncio, assignor.) (Reissue.)
- Detrick, Frank G. (See Detrick, Guy, assignor.)
- Detrick, Guy, assignor of one-half to F. G. Detrick, Ada, Ohio. Chart for teaching universal history. No. 1,406,173; Feb. 14.
- Detroit Lubricator Company. (See Blanchard, Frederick C., assignor.)
- Detroit Machine Tool Company. (See Sobolewski, Edward, assignor.)

Alphabetical list of patentees—Continued.

- Detroit Pneumatic Chuck Company. (See Finlayson, Don N., assignor.)
- Detroit Pressed Steel Company. (See Putnam, Alden L., assignor.)
- Detroit Range Boiler & Steel Barrel Company. (See Moore, George A., assignor.)
- Detroit Range Boiler & Steel Barrel Company. (See Wacker, Frederick G., assignor.)
- Detroit Sheet Metal Works. (See Ehmka, William C., assignor.)
- Detroit Stove Works. (See Miller, Robert H., assignor.)
- Detroit Tire Carrier Co. (See Wasserfallen, Charles F., assignor.)
- Detroit Torch & Manufacturing Company. (See Lindhorst, Frederick L., assignor.)
- Detroit Trust Company, trustee. (See Bechman, Henry F., assignor.)
- Detroit Universal Solvent Company. (See Summers, Harry W. and R. W., assignors.)
- Detroit Vapor Stove Company. (See Sherman, Alvin G., assignor.)
- Detroit Vapor Stove Company. (See Sherman, John S. and A. J., assignors.)
- Det Tekniske Forsøgsaktieselskab. (See Goldschmidt, Rudolf, assignor.)
- Dettelbach, Frank C. (See Flannery, J. M., and Dettelbach.)
- Dettmar, Frederick C., et al. (See Fischer, Henry J., assignor.)
- De Turck, James, et al. (See Scott, Philip N., assignor.)
- Detwiler, Alfred E., Chicago, Ill. Thumb and finger protector. No. 1,416,001; May 16.
- Detwiler, Forest V., Pottstown, Pa. Hydrocarbon burner. No. 1,422,752; July 11.
- Deubel, Joseph, Clifton, N. J. Tobacco-shredding apparatus. No. 1,403,489; Jan. 17.
- Deubener, Walter H. (See Groh, Robert C., assignor.)
- Deulin, Fernand E., assignor to The Libbey-Owens Sheet Glass Company, Charleston, W. Va. Method and apparatus for drawing sheet glass. No. 1,411,079; Mar. 28.
- Deuscher, Charles A., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Connector. No. 1,403,298; Jan. 10.
- Deutsch, Adolph M. (See Grossman, Meyer, assignor.)
- Deutsch, Adolph M., New York, N. Y. Permanent collar button. No. 1,412,045; Apr. 11.
- Deutsch, Adolph M., and W. V. Dupre, New York, N. Y. Indicator. No. 1,402,220; Jan. 3.
- Deutsch, Edward I., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Polyphase controlling device. No. 1,425,755; Aug. 15.
- Deutsch, Frank J., assignor of one-half to E. Farkas, Cleveland, Ohio. Dust receptacle for vacuum cleaners. No. 1,428,583; Sept. 12.
- Deutsch, Frank J., and E. Farkas, Cleveland, Ohio. Dust receptacle for vacuum cleaners. No. 1,433,941; Oct. 31.
- Deutsch, Fred. (See Reisfeld, Louis, assignor.)
- Deutsch, Hermann, Berlin-Lichterfelde, Germany, assignor to the Firm Adrema Maschinen-Bau-Gesellschaft mit beschränkter Haftung, Berlin, Germany. Addressing machine. No. 1,436,981; Nov. 28.
- Deutsch Luxemburgische Bergwerks- und Hütten Aktiengesellschaft. (See Hilpert, Siegfried, assignor.)
- Deutsch, Simm, Milwaukee, Wis. Pattern-maker's tool. No. 1,412,555; Apr. 11.
- Deutsche Evaporator-Aktien-Gesellschaft. (See Gelpke, Victor, assignor.)
- Deutsche Werke Aktiengesellschaft. (See Häcker, Fritz, assignor.)
- Deutsche Werke Aktiengesellschaft. (See Mohr, Julius, assignor.)
- Devaux, Félix A., Paris, France. Door check and closer. No. 1,404,513 Jan. 24.
- De Vecchis, Ineo, Rome, Italy. Method and means for the metalization of wood. No. 1,409,087; Mar. 7.
- De Velasco, Angel, New York, N. Y. Hair-rinsing means. No. 1,438,099; Dec. 5.
- Development and Finance Company of New York. (See Price, John R., assignor.)
- Devendorf, Don. (See Noel, John S., assignor.)
- Dever, Henry L., Owensboro, Ky. Grading machine. No. 1,422,753; July 11.
- Dever, Henry L., Owensboro, Ky. Grader. No. 1,422,754; July 11.
- Dever, James. (See Luedke, Julius C., assignor.)
- Dever, John V., Niagara Falls, Ontario, Canada, assignor to The Columbus McKinnon Chain Co., Columbus, Ohio. Rim-chain fastener. No. 1,438,224; Dec. 12.
- Devereux, William G., San Mateo, Calif. Agitator for liquid materials. No. 1,430,362; Sept. 26.
- Devers, Murrel O., Dayton, Ohio. Dim-bright switch for electric systems. No. 1,438,522; Dec. 12.
- De Vilbiss Endless Film Machine Company. (See De Vilbiss, John A., assignor.)
- De Vilbiss, John A., St. Louis, Mo., assignor, by mesne assignments, to De Vilbiss Endless Film Machine Company. Moving-picture-projecting machine. No. 1,433,190; Oct. 24.
- De Vilbiss, John A., St. Louis, Mo., assignor, by mesne assignments, to De Vilbiss Endless Film Machine Company. Handling a flexible strip. No. 1,433,191; Oct. 24.
- De Ville, Edward J., assignor to The Monarch Engineering Company, Dayton, Ohio. Seepage interceptor for piston rods. No. 1,430,956; Oct. 3.
- De Ville, Edward J., assignor to Monarch Engineering Company, Dayton, Ohio. Pump. No. 1,438,225; Dec. 12.
- Devine, John J., Middletown, Conn. Writing-lighting device. No. 1,418,132; May 30.
- Devine, Joseph P., Buffalo, N. Y. Apparatus for drying the covering of electrical conductors or the like. No. 1,420,367; June 20.
- De Vito, John A., Medford, Mass. Apparatus for raising sunken vessels. No. 1,415,532; May 9.
- De Vito, John A., Medford, Mass. Apparatus for raising sunken vessels. No. 1,415,533; May 9.
- De Vito, Louis, Cleveland, Ohio. Dough-forming machine. No. 1,424,806; Aug. 8.
- Devlin, Edward K., Newton Center, Mass. Nonskid device. No. 1,412,344; Apr. 11.
- Devlin, John F., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Base for dipper teeth. No. 1,440,212; Dec. 26.
- De Voe, Albert H., Westfield, N. J. Toy. No. 1,430,062; Sept. 26.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Power transmitter. No. 1,401,967; Jan. 3.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Covering-thread mechanism for sewing machines. No. 1,403,897; Jan. 17.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Presser foot for sewing machines. No. 1,404,704; Jan. 24.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Sewing machine. No. 1,404,705; Jan. 24.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Sewing machine. No. 1,411,003; Mar. 28.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Sewing-machine attachment. No. 1,413,835; Apr. 25.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Sewing machine. No. 1,416,002; May 16.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Work-shifting mechanism for sewing machines. No. 1,416,003; May 16.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Buttonhole-sewing machine. No. 1,416,004; May 16.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Sewing machine. No. 1,416,005; May 16.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Thread-controlling mechanism. No. 1,416,697; May 23.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Presser-lifting mechanism for sewing machines. No. 1,420,413; June 20.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Attachment for sewing machines. No. 1,420,414; June 20.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Seam for sewed articles. No. 1,423,479; July 18.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Dress guard. No. 1,423,602; July 25.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Trimming device for sewing machines. No. 1,426,466; Aug. 22.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Attachment for sewing machines. No. 1,429,933; Sept. 26.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Trimming mechanism for sewing machines. No. 1,431,935; Oct. 17.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Braider or corder. No. 1,432,974; Oct. 24.
- De Voe, Albert H., Westfield, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Trimming mechanism for sewing machines. No. 1,433,705; Oct. 31.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Feeding mechanism for sewing machines. No. 1,435,454; Nov. 14.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Sewing and trimming machine. No. 1,440,343; Dec. 26.
- De Vol, Bart E., and J. R. Moncrief, assignors to Universal Manufacturing Company, Santa Ana, Calif. Automobile towing bar. No. 1,426,155; Aug. 15.
- De Vol, Thomas E., Belgrade, Nebr. Elevator. No. 1,405,301; Jan. 31.
- Devollid, Orian F. (See Hopkins, R. E. and Devollid.)
- Devore, Andrew, New York, N. Y. Indestructible gold-leaf character and preparing the same. No. 1,417,596; May 30.
- Devos, Constant L., New York, N. Y. Wrench. No. 1,416,271; May 16.
- De Voss, Edwin A., Seattle, Wash. Shock absorber. No. 1,433,192; Oct. 24.

- Dewald, Edward A. (See Nelson, E. H., and Dewald.)
 De Waters, Georgianna W., Pittsburgh, Pa. Casement-window structure. No. 1,436,951; Nov. 28.
 Deweeze, Albert C., Chicago, Ill. Street sweeper. No. 1,417,231; May 23.
 Deweez, Herbert A. (See Gentry, B. C., and Hoffman, assignors.)
 Dewend, William D., assignor to Oliver Chilled Plow Works, South Bend, Ind. Agricultural implement. No. 1,418,780; June 6.
 Dewey, Charles J., Chicago, Ill. By-pass valve. No. 1,417,808; May 30.
 Dewey, Daniel D., and L. G. Sawdy, Escanaba, Mich. Trousers presser. No. 1,420,822; June 27.
 Dewey, Frank H., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle hoist device. No. 1,422,344; July 11.
 Dewey, Haywood G. (See Sulzer, A. F., and Dewey.)
 Dewey, Josiah A., San Francisco, Calif. Resilient wheel. No. 1,410,386; Mar. 21.
 Dewey, Maurice J., Houston, Tex. Constant-volume valve. No. 1,407,844; Feb. 28.
 Dewhurst, Edmund E., Elyria, Ohio. Recoil pad. No. 1,414,116; Apr. 25.
 De Wijs, Jean E. C., Leiden, Netherlands. Apparatus for directing circular saws when grinding on rotary stones. No. 1,436,485; Nov. 21.
 De Wille, Anthony J., Sutersville, Pa. Lens-grinding machine. No. 1,427,787; Sept. 5.
 Dewitt, Arthur W., Emeryville, Calif. Display shelf. No. 1,407,845; Feb. 28.
 De Witt, Harry E. (See Kibler, John, Jr., assignor.)
 De Witt-La France Co. (See De Witt, W. P., and La France, assignors.)
 De Witt, William P., Somerville, and D. J. La France, assignors, by mesne assignments, to De Witt-La France Co., Cambridge, Mass. Pencil. No. 1,423,603; July 25.
 De Witt, William P., Somerville, and D. J. La France, assignors, by mesne assignments, to De Witt-La France Co., Cambridge, Mass. Pencil. No. 1,434,684; Nov. 7.
 Dewson, Edward H., New York, N. Y., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety car-control device. No. 1,414,073; Apr. 25.
 Dewstow, Harold B., Detroit, Mich. Vehicle top. No. 1,403,299; Jan. 10.
 Dexter, Bayard P. (See Dexter, Fred A. and B. P., and Stuard.)
 Dexter, Carl J., Lafayette, Ind. Adhesive wafer. No. 1,410,555; Mar. 28.
 Dexter Company, The. (See George, William H., assignor.)
 Dexter Folder Company. (See Christophel, C. E., and Eiserman, assignors.)
 Dexter Folder Company. (See Christophel, Carl E., assignor.)
 Dexter, Fred A., B. P. Dexter, Orange, Mass., and J. A. Stuard, Harrisburg, Pa.; said B. P. Dexter and said J. A. Stuard, assignors to said Fred A. Dexter. Machine for facing or dressing gate valves. No. 1,420,915; June 27.
 Dexter, John. (See Astbury, Thomas, assignor.)
 Dexter, John, New Bedford, Mass. Condenser for textile fibers. No. 1,416,339; May 16.
 Dey, Gilbert S., assignor to American Optical Company, Southbridge, Mass. Lens-forming. No. 1,416,947; May 23.
 Dey, Gilbert S., assignor to American Optical Company, Southbridge, Mass. Lens grinding. No. 1,438,100; Dec. 5.
 Dey, William H., Jersey City, N. J., assignor to United States Radium Corporation. Luminous article and making the same. No. 1,422,841; July 18.
 D'Eyncourt, Eustace H. T., and F. Skeens, Whitehall, London, England. Gun mounting. No. 1,402,407; Jan. 3.
 Dezall, Samuel A., Delafield, Wis. Vehicle attachment. No. 1,436,017; Nov. 21.
 Dežela, August, Vancouver Island, British Columbia, Canada. Fiber sayer. No. 1,423,199; July 18.
 Dežela, August, Vancouver Island, British Columbia, Canada. Penholder. No. 1,433,940; Oct. 31.
 Dezendorf, Richard L., Richmond Hill, N. Y. Means for and method of proving gas meters. No. 1,422,089; July 11.
 De Zeng, Henry L., Moorestown, N. J. Ophthalmological instrument. No. 1,409,680; Mar. 14.
 De Zeng, Henry L., Moorestown, N. J. Optical instrument. No. 1,423,091; July 18.
 De Zeng, Henry L., Moorestown, N. J. Optical instrument. No. 1,423,092; July 18.
 De Zeng, Henry L., Moorestown, N. J. Optical instrument. No. 1,431,782; Oct. 10.
 Dhé, Paul, Vitry-sur-Seine, France. Mold. No. 1,404,588; Jan. 24.
 Dhé, Paul, Paris, France. Filament composed of basalt. No. 1,438,428; Dec. 12.
 Dhooge, Oscar, Chicago, Ill. Fishing tool for oil wells. No. 1,405,976; Feb. 7.
 Diakonuk, Theodore, Edmonton, Alberta, Canada. Parachute for aeroplanes. No. 1,438,013; Sept. 5.
 Dial, Nathaniel, New York, N. Y. Medicine bottle. No. 1,425,456; Aug. 8.
 Dial, Robert E., and J. C. Stark, Atherton, Ind. Automobile signal. No. 1,436,865; Nov. 28.
 Diamant, Sidney, New York, N. Y. Punch and die set. No. 1,423,917; July 25.
 Diamantides, Diamond, Canonsburg, Pa. Method of and apparatus for raising sunken ships. No. 1,430,957; Oct. 3.
 Diamond Air Springs Company. (See Gruss, Roland M., assignor.)
 Diamond Crystal Salt Company. (See Gannon, Joseph J., assignor.)
 Diamond Electric Specialties Corp. (See Kahn, Walter D., assignor.)
 Diamond Electric Specialties Corp. (See Rosenfeld, Francis M., assignor.)
 Diamond Expansion Bolt Company. (See Goewey, James E., assignor.)
 Diamond Expansion Bolt Company. (See Hiss, William J., assignor.)
 Diamond, George, New York, assignor to P. E. De Fere, New York, N. Y. Box-making machine. No. 1,435,591; Nov. 14.
 Diamond, Harry H., et al. (See Huff, George R., assignor.)
 Diamond Iron Works. (See Sprague, Charles B., assignor.)
 Diamond Match Company, The. (See Donnelly, Joseph C., assignor.)
 Diamond Match Company, The. (See Elder, William J., assignor.)
 Diamond Match Company, The. (See Fairburn, William A., assignor.)
 Diamond Match Company, The. (See Haferkamp, Carl C., assignor.)
 Diamond Match Company, The. (See Linebaugh, Edward R., assignor.)
 Diamond Match Company, The. (See Paridon, Michael, assignor.)
 Diamond Match Company, The. (See Schumacher, Henry C., assignor.)
 Diamond Match Company, The. (See Teeple, Oliver P., assignor.)
 Diamond Match Company, The. (See Wright, Charles F., assignor.)
 Diamond, Nicholas. (See Hamlin, Ben M., assignor.)
 Diamond Products Corporation, The. (See Newell, Peter S. H., assignor.)
 Diamond State Fibre Company. (See McIntosh, J., and Neill, assignors.)
 Diamond State Fibre Company. (See McIntosh, James, assignor.)
 Diamond State Fibre Company. (See Taylor, John M., assignor.)
 Diana Knitting Company. (See Duesler, Walter, assignor.)
 Diaphone Signal Company Limited, The. (See Weston, A. H., and Zilliox, assignors.)
 Diaz, Angelo, New York, N. Y. Hair-waving device. No. 1,418,291; June 6.
 Di Battista, Charles. (See Loch, J. G., and Di Battista.)
 Dibbins, Sylvester. (See Grundig, G. E., and Dibbins.)
 Dibble, W. E. (See Potter, Molton D., assignor.)
 Di Bella, Frank, New York, N. Y. Permutation lock. No. 1,413,393; Apr. 18.
 Di Carlo, Joseph, Edwardsville, Ill. Ice creeper for shoes. No. 1,439,873; Dec. 26.
 Dice, Samuel H., Newark, N. J. Soldering tool or implement. No. 1,406,621; Feb. 14.
 Dick, A. B., Company. (See Dick, A. B., and Hill, assignors.)
 Dick, A. B., Company. (See Hill, Edward F., assignor.)
 Dick, Albert B., Lake Forest, and E. W. Hill, Chicago, assignors to A. B. Dick Company, Chicago, Ill. Ink. No. 1,439,356; Dec. 19.
 Dick, Joseph, Manufacturing Company, The. (See Dick, Joseph, assignor.)
 Dick, Joseph, assignor to The Joseph Dick Manufacturing Company, Canton, Ohio. Fodder cutter. No. 1,438,365; Dec. 12.
 Dick, Joseph C. F., Stockton, Calif. Driving mechanism for tractors. No. 1,423,758; July 25.
 Dick, Levi R. H., Chicago, Ill., assignor to Clasp-Tight Spring Company, Wilmington, Del. Chamber spring attachment. No. 1,416,177; May 16.
 Dick, Samuel M., Minneapolis, Minn. Garage. No. 1,435,153; Nov. 14.
 Dickelman, Lizzie H., Forest, Ohio. Door and door frame for grain bins. No. 1,419,236; June 13.
 Dickens, Carl S., T. E. Schley, and J. W. Newton, Beaumont, assignors to Magnolia Petroleum Company, Dallas, Tex. Wax-sweating apparatus. No. 1,429,721; Sept. 19.
 Dickerson, Arthur, assignor to Dickerson Engine Company, Salt Lake City, Utah. Rotary valve. No. 1,414,692; May 2.
 Dickerson, Earl W., Detroit, Mich. Book hanger. No. 1,405,818; Feb. 7.
 Dickerson Engine Company. (See Dickerson, Arthur, assignor.)
 Dickerson, Glenn H., and A. Vanderveld, assignors to Dickerson Glue Jointer Company, Grand Rapids, Mich. Lumber-joining machine. No. 1,420,976; June 27.
 Dickerson Glue Jointer Company. (See Dickerson, G. H., and Vanderveld, assignors.)

Alphabetical list of patentees—Continued.

- Dickerson, Raleigh C., Seattle, Wash. Accelerator-control mechanism. No. 1,436,154; Nov. 21.
- Dickey, Alexander, Honeyville, Utah. Rifle sight. No. 1,425,756; Aug. 18.
- Dickey, Charles A. (See Dickey, Edward A., assignor.)
- Dickey, Costillas A., St. Paul, Minn. Animal trap. No. 1,410,737; Mar. 28.
- Dickey, Cromwell B., Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Manufacture of calcium arsenate. No. 1,428,946; Sept. 12.
- Dickey, Cromwell B., assignor to Pittsburgh Plate Glass Company, Milwaukee, Wis. Manufacture of calcium arsenate. No. 1,434,650; Nov. 7.
- Dickey, Edward A., Wireton, assignor of one-half to C. A. Dickey, New Sheffield, Pa. Starting mechanism for engines. No. 1,409,681; Mar. 14.
- Dickey, Jonathan A. (See Hughes, B. I., jr., Dickey, and Catts.)
- Dickey, Samuel J., Los Angeles, Calif., assignor to General Petroleum Corporation. Gas trap. No. 1,413,160; Apr. 18.
- Dickie, David S., Winifred, Mont. Garden tool. No. 1,422,090; July 11.
- Dickinson, Clarence W., assignor to The Youngstown Pressed Steel Company, Warren, Ohio. Producing ribbed expanded metal lathing. No. 1,436,866; Nov. 28.
- Dickinson, Edgar D. (See Wilkinson, J., and Dickinson.)
- Dickinson, Edgar D., Schenectady, N. Y., assignor to General Electric Company. Valve mechanism for elastic-fluid turbines and the like. No. 1,409,528; Mar. 14.
- Dickinson, Edgar D., Schenectady, N. Y., assignor to General Electric Company. Emergency mechanism. No. 1,409,529; Mar. 14.
- Dickinson, Edgar D., Schenectady, N. Y., assignor to General Electric Company. Emergency valve mechanism for turbine installations and the like. No. 1,409,530; Mar. 14.
- Dickinson, Fredrick S., New York, N. Y. Constructing pneumatic tires. No. 1,420,611; June 20.
- Dickinson, Hal, Minneapolis, Minn. Rain vision shield. No. 1,428,014; Sept. 5.
- Dickinson, Hal, assignor to Dickinson & Company, Minneapolis, Minn. Screen and storm sash hanger. No. 1,412,460; Apr. 11.
- Dickinson, Hal, assignor to Dickinson and Company, Inc., Minneapolis, Minn. Storm and glare shield. No. 1,421,182; June 27.
- Dickinson, Harry S., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill. Tillage implement. No. 1,428,947; Sept. 12.
- Dickinson, John L., assignor to The Laurence Smith Paper Goods Company, Detroit, Mich. Envelope. No. 1,432,541; Oct. 17.
- Dickinson, John T., Danville, Ill. Rim for pneumatic tires. No. 1,413,834; Apr. 25.
- Dickinson, Joseph H., Cranford, N. J., assignor to The Aeolian Company. Motor drive for phonographs. No. 1,405,572; Feb. 7.
- Dickinson, Joseph H., Larchmont, N. Y., assignor to The Aeolian Company. Combined cabinet and piano. No. 1,424,885; Aug. 8.
- Dickinson, Reuben S. (See Shepherd, Clarence G., assignor.)
- Dickinson, Samuel R., et al. (See Ghegan, Harry G., assignor.)
- Dickinson, William W., Jr., Little Rock, Ark. Apparatus for burning bricks. No. 1,403,300; Jan. 10.
- Dickinson, William W., Jr., Little Rock, Ark. Apparatus for burning bricks. No. 1,403,301; Jan. 10.
- Dickinson & Company. (See Dickinson, Hal, assignor.)
- Dickmeyer, William C., Fort Wayne, Ind. Display stand. No. 1,415,224; May 9.
- Dicks, Thomas A., Wilkensburg, Pa. Work clamping and cushioning attachment for pneumatic hammers. No. 1,430,292; Sept. 26.
- Dickson, Clarence B., Topeka, Kans. Biscuit cutter. No. 1,436,982; Nov. 28.
- Dickson, Desmond H. (See Coley, H. E., and Dickson.)
- Dickson, George E., Chicago, Ill. Device for providing railway accident insurance. No. 1,408,175; Feb. 28.
- Dickson, George E., Evanston, Ill. Device for providing railway accident insurance. (Reissue.) No. 15,459; Sept. 26.
- Dickson, James G., assignor of one-third to F. Wolf, Chicago, Ill. Spark plug. No. 1,414,806; May 2.
- Dickson, Kit C., Davenport, Iowa. Loop taker. No. 1,431,380; Oct. 10.
- Dickson, Robert C., Medan, Sumatra, Dutch East Indies. Lead compass. No. 1,429,848; Sept. 19.
- Dickson, William R., San Francisco, Calif. Wardrobe-trunk attachment. No. 1,426,823; Aug. 22.
- Di Como, Charles, assignor of one-half to G. Meir, Rahway, N. J. Rewinding apparatus. No. 1,419,826; June 13.
- Dictograph Products Corporation. (See Koch, Henry, assignor.)
- Diden, Edward T., Pine Bluff, Ark. Locomotive valve gear. No. 1,404,936; Jan. 31.
- Die Sinking and Machine Company, The. (See Hoff, C. A., and Steese, assignors.)
- Dieckmann, Carl F., assignor to Eugene Dietzgen Company, Chicago, Ill. Tape reel. No. 1,423,516; July 25.
- Dieckmann, Carl F., assignor to Eugene Dietzgen Company, Chicago, Ill. Magnifying runner for slide rules. No. 1,424,807; Aug. 8.
- Diederichs, Carl A., Pittsburgh, Pa. Lighting fixture. No. 1,419,721; June 13.
- Diefenderfer, Martin, South Pasadena, Calif. Vehicle body. No. 1,431,783; Oct. 10.
- Diehl, Ambrose N., Duquesne, Pa. Hot-blast stove. No. 1,434,878; Nov. 7.
- Diehl, Charles, Peru, Ind. Valve-grinding machine. No. 1,429,494; Sept. 19.
- Diehl, Frank, Wabash, Ind. Gluing clamp and drier. No. 1,420,244; June 20.
- Diehl, Frederick, assignor to Diehl Manufacturing Co., Elizabeth, N. J. Oscillating fan. No. 1,403,151; Jan. 10.
- Diehl, Frederick, assignor to Diehl Manufacturing Co., Elizabeth, N. J. Time-controlled motor. No. 1,411,712; Apr. 4.
- Diehl, Irvin W., Duluth, Minn. Stair-rod fastener. No. 1,418,133; May 30.
- Diehl, Ludwig H., Darmstadt, Germany. Smelting ores or the like. No. 1,431,877; Oct. 10.
- Diehl Manufacturing Co. (See Diehl, Frederick, assignor.)
- Diehl Manufacturing Co. (See Zabriskie, Henry L., assignor.)
- Diehl Manufacturing Company. (See Karle, John D., assignor.)
- Diehl, Richard, Hillside, N. J. Game apparatus. No. 1,439,616; Dec. 19.
- Diehl, Walter R. (See Sharp, David C., and Diehl.)
- Diehm, Lucius N., West Hartford, assignor of one-half to B. C. Stone, Middletown, Conn. Pistol. No. 1,405,765; Feb. 7.
- Dieke, Friedrich G., Johnson City, N. Y. Brush holder for draining brushes. No. 1,438,699; Dec. 12.
- Diener, John A., Chicago, Ill. Golf club. No. 1,428,015; Sept. 5.
- Diener, John A., assignor to W. J. Conlon, Chicago, Ill. Reversing mechanism. No. 1,409,531; Mar. 14.
- Diener, John A., assignor to Brown, Hanson & Boettcher, Chicago, Ill. Burner. No. 1,424,808; Aug. 8.
- Diers, John H., Blakeley, and O. Arneson, St. Paul, assignors to Liberty Power Saw Company, Ramsey County, Minn. Portable power saw. No. 1,419,028; June 6.
- Dies, Charles A., Chicago, Ill. Rotary motor. No. 1,434,104; Oct. 31.
- Diescher, August P., Pittsburgh, Pa. Manufacture of rubber tires, etc. No. 1,407,193; Feb. 21.
- Diescher, L., & Sons. (See Angstrom, Carl J., assignor.)
- Diescher, S., & Sons. (See Diescher, Samuel E., assignor.)
- Diescher, Samuel E., Wilkensburg, Pa., assignor to S. Diescher & Sons. Tile or block for boiler baffles. No. 1,431,936; Oct. 17.
- Diesel, Conrad J., and W. C. Jackson, assignors to The Corcoran Victor Company, Cincinnati, Ohio. Polishing holder. No. 1,430,063; Sept. 26.
- Diesel, William F., and E. R. Weber, assignors to Sargent & Greenleaf, Inc., Rochester, N. Y. Adjustable lock. No. 1,431,381; Oct. 10.
- Diesel, William F., Rochester, and W. R. Price, New York, assignors to Sargent and Greenleaf, Inc., Rochester, N. Y. Lock. No. 1,417,148; May 23.
- Diet, Michel. (See Bourdariat, J. A., and Diet.)
- Dieter, William, Brooklyn, N. Y. Means for spinning gyroscopes and launching torpedoes. No. 1,402,745; Jan. 10.
- Dieter, William, Brooklyn, N. Y. Torpedo-launching mechanism. No. 1,402,746; Jan. 10.
- Dieter, William, Brooklyn, N. Y. Propelling mechanism for automobile torpedoes. No. 1,407,261; Feb. 21.
- Dieter, William, Brooklyn, N. Y. Propelling mechanism for torpedoes. No. 1,407,262; Feb. 21.
- Dieter, William, Newark, N. J., assignor to Vittlea Development Corporation. Air flask for torpedoes. No. 1,429,023; Sept. 12.
- Dieter, William, Newark, N. J., assignor to Vittlea Development Corporation. Recording device for torpedo-launching tubes. No. 1,430,800; Oct. 3.
- Dieter, William, Newark, N. J., assignor to Vittlea Development Corporation. Torpedo depth gear. No. 1,432,744; Oct. 24.
- Dieter, William, Brooklyn, N. Y., assignor to Vittlea Development Corporation. Pressure-reducing valve for automobile torpedoes. No. 1,432,745; Oct. 24.
- Dieter, William, Brooklyn, N. Y., assignor to Vittlea Development Corporation. Air-check valve for automobile torpedoes. No. 1,436,018; Nov. 21.
- Dieterle, Wilhelm, Feuerbach, near Stuttgart, Germany. Photographic developer. No. 1,432,542; Oct. 17.
- Dietrich, Charles, et al. (See Mikesell, Azariah H., assignor.)
- Dietrich, Jack. (See Benedict, Theobald, assignor.)
- Dietrich, Johannes G., Berlin-Tempelhof, Germany. No. 1,437,134; Nov. 28.
- Dietrich, Joseph, et al. (See Mikesell, Azariah H., assignor.)
- Dietsche, Adolph, Jr., assignor to American Lithographic Company, New York, N. Y. Multiple-pocket envelope. No. 1,404,193; Jan. 24.
- Dietsche, Adolph, Jr., assignor to American Lithographic Company, New York, N. Y. Display device. No. 1,412,846; Apr. 18.

- Dietsche, Adolph, jr., assignor to American Lithographic Company, New York, N. Y. Display device. No. 1,432,056; Oct. 17.
- Dietz, Carl P., Milwaukee, Wis. Temporary binder. No. 1,436,765; Nov. 28.
- Dietz, John T. (See Ziegler, William M., assignor.)
- Dietz, William, Forest Park, Ill. Faucet. No. 1,419,237; June 13.
- Dietze, Emil, assignor to American Casting and Manufacturing Corporation, Brooklyn, N. Y. Seal press. No. 1,413,106; Apr. 18.
- Dietze, Paul, Chemnitz, Germany. Production of a solvent for fat. No. 1,405,902; Feb. 7.
- Dietzgen, Eugene, Company. (See Dieckmann, Carl F., assignor.)
- Diffendorf, Walter L., San Diego, Calif. Ignition mechanism for gas engines. No. 1,434,685; Nov. 7.
- Diggs, Sterling H., Whiting, Ind., assignor to Standard Oil Company, Chicago, Ill. Separation of petroleum oil sludge. No. 1,418,781; June 6.
- Di Giacomo, Generoso, and L. Melchiorri, Philadelphia, Pa. Sound-transmitting apparatus. No. 1,410,897; Mar. 28.
- Di Giacomo, Salvatore. (See Milito, Peter, assignor.)
- Digney, Thomas, Bridgeport, Conn. Shade roller. No. 1,407,991; Feb. 28.
- Dilator Syringe Corporation. (See Rose, Jay, assignor.)
- Dilbone, Ardella C. (See Poe, Robert L., assignor.)
- Dildine, James C., Cameron, Mo. Brick mold. No. 1,437,135; Nov. 28.
- Di Le Compte, Onesime H., assignor to Universal Car and Hose Coupler Company, Oklahoma, Okla. Car-coupling knuckle. No. 1,421,421; July 4.
- Di Leo, Enrico, Bridgeport, Conn. Bench tool for shoemakers. No. 1,438,866; Dec. 12.
- Dilger, Ben I., Birmingham, Ala. Grave covering. No. 1,431,154; Oct. 10.
- Dilger, John, Lyndhurst, N. J. Candy-stringing machine. No. 1,402,287; Jan. 3.
- Dill, George I., Little Rock, Ark. Machine for harvesting rice and the like. No. 1,418,542; June 6.
- Dill, Walter E., Springfield, Mass. Door latch. No. 1,405,977; Feb. 7.
- Dillaber, Alvin R., Grosvenor Dale, Conn., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,420,529; June 20.
- Dillard, Horace A., Burns, Oreg. Attachment for automobile radiators. No. 1,436,580; Nov. 21.
- Dillard, Willie K., Laurens, S. C. Lighting displaced trolley poles. No. 1,403,743; Jan. 17.
- Diller, Job S., Waynesboro, Pa. Cutter head. No. 1,405,903; Feb. 7.
- Dilley, James V., Detroit, Mich. Lathe attachment. No. 1,427,076; Aug. 22.
- Dillig, George F., Pittsburgh, Pa. Mining machine. No. 1,409,532; Mar. 14.
- Dillin, Joseph F., Ardmore, Pa. Insect trap. No. 1,439,874; Dec. 26.
- Dillinger, Herbert H. (See Smith, E. N., and Dillinger.)
- Dillinger, Herbert H. (See Smith, Eric N., assignor.)
- Dillingham Manufacturing Company. (See Barrows, Harry E., assignor.)
- Dillon, Charles A., assignor to The Dillon Electric Company, Canton, Ohio. Electric elevator. No. 1,410,285; Mar. 21.
- Dillon, E. B. (See Melvin, John H., assignor.)
- Dillon Electric Company, The. (See Dillon, Charles A., assignor.)
- Dillon, Elizabeth V., Boston, Mass. Flower for millinery purposes. No. 1,438,700; Dec. 12.
- Dillon, John, New York, N. Y. Loading and unloading device. No. 1,435,820; Nov. 14.
- Dillon, Lester E., Civil Bend Township, Union County, S. Dak. Hairpin. No. 1,432,162; Oct. 17.
- Dillon, Ulysses G., Nora, Nebr. Wire-winding device. No. 1,431,784; Oct. 10.
- Dillon, William C. (See Horspool, Francis L., assignor.)
- Dillon, William C., Fort Dodge, Iowa. Auxiliary lock for vault-lock mechanism. No. 1,404,937; Jan. 31.
- Dillon, William C., Fort Dodge, Iowa. Money-container alarm device. No. 1,409,156; Mar. 14.
- Dillon, William C., Fort Dodge, Iowa. Auxiliary lock for vault lock mechanism. No. 1,410,800; Mar. 28.
- Dillon, William C., Fort Dodge, Iowa, C. J. Toay, Avalon, Pa., W. H. Toay, Des Moines, and A. Haney, Fort Dodge; said Dillon assignor to A. B. Roderick, Des Moines, Iowa. Cash-drawer burglar alarm. No. 1,406,447; Feb. 14.
- Dills, Philip L., assignor of one-third to C. L. Shope, Blairsville, and two-thirds to W. N. Clement, Young Cane, Ga. Dough-mixing tray and board. No. 1,414,074; Apr. 25.
- Dilworth, John. (See Hughes, A. E., and Dilworth.)
- Dilworth, Otto L. G., Hartford, Conn. Artificial hand. No. 1,415,809; May 9.
- Dilworth, Otto L., Hartford, Conn. Artificial limb. No. 1,421,292; Oct. 10.
- Dilworth, Porter & Co. (See Morrison, Andrew, assignor.)
- Dimler, Christopher A. (See Clarkson, J. W., and Dimler.)
- Dimmick, Walter N., Berkeley, Calif. Method and apparatus for sorting particles of solid divided material by a cinematic process. No. 1,435,382; Nov. 14.
- Di Napoli, Joseph, assignor of one-half to L. E. Levinthal, Philadelphia, Pa. Automobile lock. No. 1,402,150; Jan. 8.
- Dinardo, Peter A., Brooklyn, N. Y. Hair duster. No. 1,425,242; Aug. 8.
- Dincognito, Guy, Chicago, Ill. Collapsible canning rack. No. 1,404,348; Jan. 24.
- Dineen, Hubert A. J., Thornbury, Victoria, Australia. Valve for hydraulic presses. No. 1,431,101; Oct. 3.
- Diner, Jacob, New York, N. Y., assignor to Manila Sterilizing Corporation, Manila, Philippine Islands. Apparatus for sterilizing vegetable products. No. 1,409,286; Mar. 14.
- Dinesen, Laurits, Minneapolis, Minn. Milking apparatus. No. 1,410,286; Mar. 21.
- Dinesen, Laurits, assignor, by mesne assignments, to Perfection Manufacturing Company, Minneapolis, Minn. Valve mechanism for milking apparatus. No. 1,408,694; Mar. 7.
- Dinesen, Laurits, assignor, by mesne assignments, to Perfection Manufacturing Company, Minneapolis, Minn. Milking apparatus. No. 1,408,695; Mar. 7.
- Dinesen, Laurits, assignor, by mesne assignments, to Perfection Manufacturing Company, Minneapolis, Minn. Milking apparatus. No. 1,417,505; May 30.
- Dingiroglou, John, Portland, Oreg. Oil burner. No. 1,403,850; Jan. 17.
- Dinkins, Abraham. (See Alles, John, assignor.)
- Dinkins, Earl T., Houston, Tex. Trap. No. 1,420,823; June 27.
- Dinning, Thomas W., and E. H. Clymer, Renton, Wash. Vehicle sled. No. 1,422,041; July 4.
- Dinsen, Thomas, and J. J. Kriker, New York, N. Y. Display stand. No. 1,426,156; Aug. 15.
- Dinwiddie, William, Metuchen, N. J. Hydrocarbon engine. No. 1,425,049; Aug. 15.
- Dion, Adolphe A., et al. (See Moodie, Robert P., assignor.)
- Dion, Louise F., New York, N. Y. Hose supporter. No. 1,433,535; Oct. 31.
- Dior, René B., Billancourt, France. Construction of sulphuric-acid chambers. No. 1,426,261; Aug. 15.
- Diszegi, Gerzony, Trenton, N. J. Rotary cultivating machine. No. 1,414,262; Apr. 25.
- Di Piazza, John, New York, N. Y. Cleaning device. No. 1,409,234; Mar. 14.
- Dippel, William T., New York, N. Y. Annunciator. No. 1,416,340; May 16.
- Dippel, William T., New York, N. Y. Annunciator. No. 1,418,702; June 6.
- Dippert, Charles W., Buffalo, N. Y. Radiator. No. 1,440,139; Dec. 26.
- Dipworth, Hermann B., Saginaw, Mich. Vehicle spring. No. 1,422,755; July 11.
- Dirienzo, Vincent, Madison, Wis. Pneumatic tire. No. 1,420,081; June 20.
- Dirks, H. M. (See Burchess, Charles L., assignor.)
- Dirzuweit, John F. (See Leonard, J. B., and Dirzuweit.)
- Disbro, Roger W., Cleveland Heights, assignor to The W. S. Tyler Company, Cleveland, Ohio. Elevator-car construction. No. 1,429,194; Sept. 12.
- Disbrow, Clarkson A., assignor to The Rail Joint Company, New York, N. Y. Holder for insulating units in insulated rail joints. No. 1,408,725; Mar. 7.
- Disbrow, Clarkson A., assignor to The Rail Joint Company, New York, N. Y. Sectional insulation for rail joints. No. 1,429,934; Sept. 26.
- Disbrow, Clarkson A., New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Rail joint. No. 1,429,935; Sept. 26.
- Disbrow, Clarkson A., New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Fabricated rail joint. No. 1,429,936; Sept. 26.
- Discher, Grant F., assignor to L. Schlesinger and H. Hellweg, Milwaukee, Wis. Package holder. No. 1,411,004; Mar. 28.
- Discher, William G., Wheeling, W. Va., assignor of one-half to F. W. Perrin, Sr. Door check. No. 1,415,225; May 9.
- Discola, Inc. (See Jenkins, Charles F., assignor.)
- Disk, August, Loganville, Wis. Draining device. No. 1,426,262; Aug. 15.
- Dismukes, Walter W., Nashville, Tenn. Detachable book cover. No. 1,407,052; Feb. 21.
- Diss, Albert B., Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster. No. 1,420,415; June 20.
- Diss, Daniel B., Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster for tapered-leg furniture. No. 1,433,988; Oct. 31.
- Diss, Louis P., Ilion, N. Y. Escapement device for typewriting machines. No. 1,429,066; Sept. 12.
- Diston, Henry, & Sons, Incorporated. (See Rogers, George L., assignor.)
- Di Stasio, Joseph, New York, N. Y. Reenforcing concrete structures. No. 1,416,548; May 16.
- Dithmer, Reimer N., Chicago, Ill. Fishplate for railway rails. No. 1,422,187; July 11.
- Ditmars, Theodore, Kansas City, Mo. Wheel drive. No. 1,402,580; Jan. 3.
- Ditson, J., and A. E. Peters, Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Shank and bit punch. No. 1,408,935; Mar. 7.

Alphabetical list of patentees—Continued.

- Ditson, Jesse, Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Double-drum hoist. No. 1,417,041; May 23.
- Ditson, Jesse, Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Hoist. No. 1,421,183; June 27.
- Ditson, Jesse, Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Guard for valve handles. No. 1,425,949; Aug. 15.
- Ditson, Jesse, Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Oiler for drill-sharpener cylinders. No. 1,436,699; Nov. 28.
- Dittmore, Joseph E., Blackwell, Okla. Hand garden plow. No. 1,425,372; Aug. 8.
- Dittmar, Elmer C., Williamsport, Pa. Coating and finishing flooring. No. 1,430,867; Oct. 3.
- Dittmar, Elmer C., Williamsport, Pa. Coating and finishing flooring. No. 1,430,868; Oct. 3.
- Dittmar, Ferdinand C., Davenport, Iowa. Cultivator. No. 1,419,722; June 13.
- Dittrich, Joseph C., Brooklyn, N. Y. Line-up register gauge. No. 1,431,293; Oct. 10.
- Divine, Bradford H., assignor to Divine Brothers Company, Utica, N. Y. Ball-bearing caster. No. 1,413,394; Apr. 18.
- Divine Brothers Company. (See Divine, Bradford H., assignor.)
- Divine, Robert E., Cincinnati, Ohio. Purifying sludge sulphonic acids and product. No. 1,438,101; Dec. 5.
- Dix, Arthur A., Orangeburg, S. C. Lubricating-oil dispenser and display device. No. 1,412,780; Apr. 11.
- Dixon, Charles E. (See Hay, J. A., and Dixon.)
- Dixon Development Company. (See Dixon, T. K., Cox, and Klein, assignors.)
- Dixon, Frederick E. (See Lippman, L. C., and Dixon, assignors.)
- Dixon, George B. (See Rivers, W. L., and Dixon.)
- Dixon, H. L., Company. (See Milner, E. E., and Lytle, assignors.)
- Dixon, Harold W. A. (See Dixon, Lewis M. and H. W. A.)
- Dixon, Israel K. (See Burton, C., Dixon, and Weeks.)
- Dixon, Israel K., Johnstown, Pa. Switch stand. No. 1,416,399; May 16.
- Dixon, John. (See Jobe, J. S., Dixon, and Arrott.)
- Dixon, Joseph, Crucible Company. (See Strong, George, assignor.)
- Dixon, Joseph O. (See Mummert, E. S., and Dixon.)
- Dixon, Joseph W., Connellsville, Pa. Pneumatic wheel. No. 1,411,879; Apr. 4.
- Dixon, Joseph W., Connellsville, Pa. Pneumatic wheel. No. 1,431,878; Oct. 10.
- Dixon, Lewis M. and H. W. A., New York, N. Y. Inking, coating, and impregnating machine. No. 1,404,589; Jan. 24.
- Dixon, Margery W., San Francisco, Calif. Book end. No. 1,409,386; Mar. 7.
- Dixon, Thomas B., Brooklyn, N. Y. Telegraphy. No. 1,408,446; Mar. 7.
- Dixon, Thomas J., Madison, Wis. Tube expander. No. 1,412,277; Apr. 11.
- Dixon, Thomas J., Madison, Wis. Tube expander. No. 1,412,278; Apr. 11.
- Dixon, Thomas J., Madison, Wis., assignor to Lovejoy Tool Works, Chicago, Ill. Multiple-tube expander. No. 1,417,979; May 30.
- Dixon, Thomas J., Madison, Wis., assignor to Lovejoy Tool Works, Chicago, Ill. Multiple expander. No. 1,417,980; May 30.
- Dixon, Thomas K., J. C. Cox, and A. Klein, assignors to Dixon Development Company, Houston, Tex. Mechanical adding-key store. No. 1,404,280; Jan. 24.
- Dixon, Walter L., New Brunswick, N. J., assignor to International Motor Company, New York, N. Y. Air-operated adapter for clamping work while turning. No. 1,412,170; Apr. 11.
- Dixon, Walter L., New Brunswick, N. J., assignor to International Motor Company, New York, N. Y. Air-operated adapter. No. 1,414,460; May 2.
- Dixon, William H., Tarentum, Pa. Furnace structure. No. 1,404,744; Jan. 31.
- Djurson, Axel R. K., Malmö, Sweden. Automatic slack adjuster for brakes. No. 1,439,730; Dec. 26.
- Dlesk, John, Berwyn, assignor to U. S. Ball Bearing Manufacturing Company, Chicago, Ill. Dustproof ball bearing. No. 1,420,416; June 20.
- Doak, John H., Boise, Idaho. Spike-driving machine. No. 1,404,841; Jan. 31.
- Doak, John H., Boise, Idaho. Automobile hub windlass. No. 1,413,523; Apr. 18.
- Doak, William L., Pittsburgh, Pa. Fielder's glove. No. 1,426,824; Aug. 22.
- Doan, Harry C., and C. J. Marson, assignors to D & M Autoparts Co., Richmond, Ind. Making piston rings. No. 1,435,592; Nov. 14.
- Dobbins, Henry. (See Tilling, J. S., and Dobbins.)
- Dobbins, Timothy C., Denver, Colo. Shaft coupling. No. 1,416,341; May 16.
- Dobbins, Timothy C., Los Angeles, Calif., and D. H. Roby, Denver, Colo. Resilient attachment for vehicles. No. 1,439,617; Dec. 19.
- Dobbs, Charles, and A. E. Painter, Reno, Nev. Apparatus for drying and medicating air. No. 1,409,364; Mar. 14.
- Dobesch, Hans, Ludwigsburg, Wurttemberg, Germany. Clothes clip. No. 1,418,543; June 6.
- Dobis, Jack, Detroit, Mich. Dispensing device. No. 1,417,042; May 23.
- Doble, Abner, assignor, by mesne assignments, to Doble-Detroit Steam Motors Co., Detroit, Mich. Burning liquid fuels. No. 1,402,747; Jan. 10.
- Doble, Albert E., Scranton, Pa. Pliers. No. 1,409,835; Mar. 14.
- Doble, Charles F., Brookline, Mass. Dishwashing machine. No. 1,437,403; Dec. 5.
- Doble-Detroit Steam Motors Co. (See Doble, Abner, assignor.)
- Doble, John A., assignor to Doble Laboratories, San Francisco, Calif. Apparatus for controlling the flow of water to boilers. No. 1,423,759; July 25.
- Doble Laboratories. (See Doble, John A., assignor.)
- Dobney, Ernest, assignor of one-third to F. E. Dennis and one-third to C. Dennis, Toronto, Ontario, Canada. Box. No. 1,424,159; Aug. 1.
- Dobrick, August C., assignor to Imperial Brass Manufacturing Company, Chicago, Ill. Priming cup. No. 1,425,512; Aug. 15.
- Dobrzanski, John, Mollenawer, Pa. Wrench. No. 1,427,364; Aug. 29.
- Dobson, Clarence H. (See Schmidt, John A., assignor.)
- Dobson, George G., Passaic, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Numerical calculating device. No. 1,426,825; Aug. 22.
- Dobson, Graham C., New York, N. Y. Hinge anchor for toilet seats. No. 1,408,991; May 7.
- Dobson, John A., Goose Creek, Tex. Oil-well screen. No. 1,406,825; Feb. 14.
- Dobson, John E. (See Klocke, W., and Dobson.)
- Dobson, Thomas. (See Barrance, Charles, assignor.)
- Dobson, Thomas M., Richmond, Va. Backband. No. 1,404,938; Jan. 31.
- Dobson, William, Rockford, Ill. Means of addressing an audience. No. 1,406,726; Feb. 14.
- Dobson, William A., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,417,304; May 23.
- Dobson, William A., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,418,241; May 30.
- Dobson, William E., Philadelphia, Pa. Pressure-control valve. No. 1,409,933; Mar. 21.
- Dobyne, Stephen A., assignor to Champion Shoe Machinery Company, St. Louis, Mo. Starting and stopping mechanism. No. 1,436,019; Nov. 21.
- Dobyne, Stephen A., assignor to Champion Shoe Machinery Company, St. Louis, Mo. Fastener-stock-supplying mechanism for fastener-inserting machines. No. 1,436,020; Nov. 21.
- Dochnal, Frank, Collinsville, Ill. Interlocking tile. No. 1,425,181; Aug. 8.
- Dochnal, Mathias, St. Louis, Mo. Open-end hollow tile for wall structures. No. 1,406,354; Feb. 14.
- Dockham, Clarence H., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Drill. No. 1,420,417; June 20.
- Docter, Albert M. (See Gendel, Harry, assignor.)
- Dod, Gerald, Southport, England. Doll head or bearing for drying cylinders. No. 1,425,635; Aug. 15.
- Dodd, Percy W., Stafford, England. Spring support for cycle saddles. No. 1,403,749; Jan. 17.
- Doddridge, Robert H. (See Matthews, Arthur H., assignor.)
- Dodds, Edgar H., Stroud Green, England. Piano-player action. No. 1,414,342; May 2.
- Dodds, Ethan I. (See Flannery, J. R., and Dodds.)
- Dodds, Ethan I. (See Stafford, B. E. D., and Dodds.)
- Dodds, Ethan I., Pittsburgh, Pa. Sheet-metal car member. No. 1,415,022; May 9.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,403,744; Jan. 17.
- Dodds, Ethan I., Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,403,745; Jan. 17.
- Dodds, Ethan I., Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,403,746; Jan. 17.
- Dodds, Ethan I., Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,403,747; Jan. 17.
- Dodds, Ethan I., Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,403,748; Jan. 17.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,409,157; Mar. 14.
- Dodds, Ethan I., Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,410,004; Mar. 21.
- Dodds, Ethan I., Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,410,005; Mar. 21.
- Dodds, Ethan I., Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,410,006; Mar. 21.
- Dodds, Ethan I., Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,410,387; Mar. 21.

Alphabetical list of patentees—Continued.

- Dodds, Ethan I., Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,410,388; Mar. 21.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Means for testing stay bolts for boilers. No. 1,414,075; Apr. 25.
- Dodds, Ethan I., Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,417,149; May 23.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt construction. No. 1,417,150; May 23.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Steam boiler. No. 1,424,559; Aug. 1.
- Dodds, Ethan I., Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Wheel structure. No. 1,426,157; Aug. 15.
- Dodds, Ethan I., Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Wheel structure. No. 1,426,158; Aug. 15.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure for boilers. No. 1,428,536; Sept. 12.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure for boilers. No. 1,428,537; Sept. 12.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Riveting mechanism. No. 1,436,386; Nov. 21.
- Dodds, Lee L., Brooklyn, N. Y. Electric motor. No. 1,405,502; Feb. 7.
- Dodds, Redus D., Houston, Tex. Core-taking device. No. 1,427,268; Aug. 29.
- Dodds, Rowan T. F., Stratford, Ontario, Canada. Explosion-preventing device. No. 1,434,879; Nov. 7.
- Dodge Brothers. (See Cooney, Albert E., assignor.)
- Dodge Brothers. (See Dodge, John F., assignor.)
- Dodge Brothers. (See Huff, Russell, assignor.)
- Dodge, Charles J., Brooklyn, N. Y. Sound amplifier for phonographs and making the same. No. 1,429,937; Sept. 26.
- Dodge, Elbert S., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,411,238; Mar. 28.
- Dodge, Frank E., Flushing, N. Y., assignor to The Barrett Company. Cracking solvent naphtha. No. 1,409,893; Mar. 14.
- Dodge, Gordon F., Brookline, Mass. Radiator with adjustable control. No. 1,429,413; Sept. 19.
- Dodge, Horace E., et al., administrators. (See Dodge, John F.)
- Dodge, Howard M., Akron, assignor to E. F. Marcha, Cleveland, Ohio. Inner tube. No. 1,414,331; Apr. 25.
- Dodge, John F., Hazleton, Pa. Mechanic's level. No. 1,418,544; June 6.
- Dodge, John F., deceased, by M. R. Dodge, Detroit, and H. E. Dodge, Grosse Pointe, special administrators, assignors to Dodge Brothers, Detroit, Mich. Wheel and making the same. No. 1,423,556; July 25.
- Dodge, Martin, Washington, D. C. Automatic food and package carrier. No. 1,411,845; Apr. 4.
- Dodge, Matilda R., et al., administrators. (See Dodge, John F.)
- Dodge, Milton L., Newburyport, Mass. Making turn shoes. No. 1,430,157; Sept. 26.
- Dodge, Milton L., Newburyport, Mass. Counter stiffener. No. 1,430,158; Sept. 26.
- Dodge, Nathaniel S., Emeryville, Calif. Hose and making same. No. 1,416,400; May 16.
- Dodge, Ralph L., Syracuse, N. Y., assignor, by mesne assignments, to Willys Corporation, Elizabeth, N. J. Differential gear. No. 1,431,572; Oct. 10.
- Dodge, William L., Dover, N. H. Tread mat for vehicles. No. 1,413,265; Apr. 18.
- Dodgson, Frank L., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Automatic train-control system. No. 1,416,622; May 16.
- Dodson, Hugh S., Rankin, Okla. Nest. No. 1,412,677; Apr. 11.
- Dodsworth, Charles R., Grand Rapids, Mich. Table-leg fastener. No. 1,426,848; Aug. 22.
- Dodtl, William, New York, N. Y. Grease cup. No. 1,435,916; Nov. 21.
- Dodulik, Steve. (See Kiss, Joseph, assignor.)
- Doe, Loring B., San Francisco, Calif. Reach. No. 1,414,343; May 2.
- Doe, William B., Skyland, N. C. Mixing attachment for bottling mechanism. No. 1,409,836; Mar. 14.
- Doehler Die Casting Company. (See Duckworth, Clarence H., assignor.)
- Doehler Die Casting Company. (See Kralund, John, assignor.)
- Doehler Die Casting Company. (See Pack, Charles, assignor.)
- Doerfling, William F., Galt, Ontario, Canada. Heating apparatus. No. 1,430,159; Sept. 26.
- Doering, Charles and H. H., Chicago, Ill. Butter substitute and making same. No. 1,434,048; Oct. 31.
- Doering, Charles and H. H., Chicago, Ill. Method of and apparatus for manufacturing butter substitutes. No. 1,434,049; Oct. 31.
- Doering, Charles J. (See Doering, William M. and C. J.)
- Doering, Henry H. (See Doering, Charles and H. H.)
- Doering, Henry H., Chicago, Ill. Butter-print machine. No. 1,403,673; Jan. 17.
- Doering, Henry H., Chicago, Ill. Method of and apparatus for crystallizing oils and fats. No. 1,426,555; Aug. 22.
- Doering, Henry L., assignor to Ball Engine Company, Erie, Pa. Power shovel. No. 1,438,752; Dec. 12.
- Doering, William M. and C. J., Cincinnati, Ohio. Container and display carton. No. 1,405,503; Feb. 7.
- Doering, William M. and C. J., Cincinnati, Ohio. Container and display carton. No. 1,405,504; Feb. 7.
- Doering, William M. and C. J., Cincinnati, Ohio. Container and display carton. No. 1,405,505; Feb. 7.
- Doerr, Carl F., Yonkers, N. Y. Rotary glass cutter. No. 1,421,921; July 4.
- Doerr, Carl F., Yonkers, N. Y. Rotary glass cutter. No. 1,424,625; Aug. 1.
- Doerr, Harry E., assignor to Scullin Steel Company, St. Louis, Mo. Pedestal truck side frame. No. 1,414,554; May 2.
- Doersching, Joseph O., West Hoboken, N. J. Hand bag. No. 1,414,866; May 2.
- Doffing, John H., New Trier, Minn. Rolling colter. No. 1,413,709; Apr. 25.
- Doherty, Henry L. (See Laird, Wilbur G., assignor.)
- Doherty, Henry L., New York, N. Y. Manufacturing water gas. No. 1,409,682; Mar. 14.
- Doherty, Henry L., New York, N. Y. Producing combustible gas and for carbonizing coal. No. 1,426,159; Aug. 15.
- Doherty, James, Chicago, Ill. Boiler construction. No. 1,402,843; Jan. 10.
- Doherty Research Company. (See Fisher, James P., assignor.)
- Doherty Research Company. (See Greenfield, Benjamin, assignor.)
- Doherty Research Company. (See McDonell, G. B., and Peck, assignors.)
- Dohner, Burt E., and A. J. Huff, Dayton, Ohio. Roller bearing. No. 1,404,939; Jan. 31.
- Dohner, Burt E., and A. J. Huff, Dayton, Ohio. Roller bearing. No. 1,404,940; Jan. 31.
- Dojno, Carmine, Brooklyn, N. Y. Heat-insulating covering for pipes. No. 1,411,960; Apr. 4.
- Dokkenwadel, Frederick G., Coshocton, Ohio. Foundry molding material. No. 1,425,457; Aug. 8.
- Dokoff, Kally M., Red Granite, Wis. Sifter. No. 1,438,905; Dec. 12.
- Dolan, John F. (See Jennings, A. L., and Dolan.)
- Dolan, Timothy, Milwaukee, Wis. Leak-stopping composition for radiators and the like. No. 1,413,524; Apr. 18.
- Doland, Harry, assignor to Paye & Baker Manufacturing Company, North Attleboro, Mass. Crumb sweeper. No. 1,402,343; Jan. 3.
- Doldt, John E., Portland, Me., assignor to Coin Sorting and Counting Company, Boston, Mass. Coin sorting and distributing device. No. 1,433,942; Oct. 31.
- Doldt, John E., Portland, Me., assignor to Coin Sorting and Counting Company, Boston, Mass. Machine for operating upon coins. No. 1,433,943; Oct. 31.
- Dole, Frederick J., New York, N. Y. Nonglaring device for lamps. No. 1,429,067; Sept. 12.
- Dolezal, Frank A., Bruno, Nebr. Shock absorber for motor vehicles. No. 1,438,301; Dec. 12.
- Dolge, Arthur H., Westport, Conn. Lock for church trucks. No. 1,429,849; Sept. 19.
- Dolgin, Kalmon, Brooklyn, N. Y., and F. Kopcienski, Jersey City, N. J. Spring-bed-bottom fabric. No. 1,409,683; Mar. 14.
- D'Olier, Francis W., Moorestown, N. J. Pencil. No. 1,436,581; Nov. 21.
- D'Olier, Henry, Jr., Bridgeport, Conn. Gauge for electric lamps and accessories. No. 1,427,586; Aug. 29.
- Doll, Otto, Greenwich, Conn. Dial train. No. 1,419,029; June 6.
- Doll, Robert F., Chicago, and J. C. Thies, Barrington, Ill. Folding crate. No. 1,426,363; Aug. 22.
- Dolley, Charles S., Nelson, N. H. Process and apparatus for applying and shaping plastic material. No. 1,430,363; Sept. 26.
- Dolmage, Mihran M., Washington, D. C. Wireless duplex signaling system. No. 1,414,629; May 2.
- Doloukhanoff, Michel, Charlottenburg, Germany. Device for automatically controlling the output of electrical plants. No. 1,423,839; July 25.
- Dolph, Norman L., Ferndale Village, and P. O. Reyneau, Birmingham, Mich. Cable clamp. No. 1,437,230; Nov. 28.
- Doman, Albert E., assignor to Dyneto Electric Company, Syracuse, N. Y. Commutator. No. 1,406,443; Feb. 14.
- Doman, Herman C., Oshkosh, Wis. Washing machine. No. 1,422,547; July 11.
- Doman, Herman C., assignor to Wash-Kosh Manufacturing Company, Oshkosh, Wis. Washing machine. No. 1,433,193; Oct. 24.
- Doman, John F., assignor of one-half to O. T. Deal, Los Angeles, Calif. Self-oiling saw. No. 1,409,684; Mar. 14.
- Domber, Joseph, assignor to Cohn-Hall-Marx Company, New York, N. Y. Display card. No. 1,406,944; Feb. 14.
- Dome, Jacob, York, Pa. Check valve. No. 1,421,184; June 27.
- Domestic Electric Company, The. (See Jannell, William, assignor.)
- Domestic Electric Company, The. (See Mace, Arthur T., assignor.)

Alphabetical list of patentees—Continued.

- Dominguez, Manuel D., assignor of one-half to J. Argote, New Orleans, La. Porthole closure. No. 1,404,941; Jan. 31.
- Dominguez, Manuel D., assignor of one-half to J. Argote, New Orleans, La. Electrical water heater. No. 1,437,046; Nov. 28.
- Dominguez, Zacarias, Los Angeles, Calif. Tractor plow implement. No. 1,430,219; Sept. 26.
- Domizi, David F., Cleveland, Ohio. Tubing machine. No. 1,429,328; Sept. 19.
- Domett, Charles H., Swindon, England, assignor to F. Siddall, Detroit, Mich. Expanding tap. No. 1,438,367; Dec. 12.
- Domy, Anton A., Elmhurst, N. Y. Decorating device. No. 1,436,155; Nov. 21.
- Donahae, M. Florin, Los Angeles, Calif. Grouser for tractor wheels and the like. No. 1,432,975; Oct. 24.
- Donahoe, Alfred H., assignor to Associated Engineers Company, Chicago, Ill. Combination socket and resistance. No. 1,416,948; May 23.
- Donahoe's, Incorporated. (See Kruckewitt, John, assignor.)
- Donahue, George, Hyde Park, assignor, by mesne assignments, to Frederick L. Emery, Lexington, Mass. Car door. No. 1,423,200; July 18.
- Donahue, Joseph F., South Bend, Ind. Roofing. No. 1,431,103; Oct. 3.
- Donahue, Joseph F., and M. G. Staley, South Bend, Ind. Roofing. No. 1,431,102; Oct. 3.
- Donahue, Joseph M. (See Orgaard, Carl, assignor.)
- Donahue, Maurice H., Columbus, Ohio. Deflector shield. No. 1,429,722; Sept. 19.
- Donahue, Thomas. (See Pinney, W. E., and Donahue.)
- Donald, Donald, Sydney, New South Wales, Australia. Star for casement windows. No. 1,422,680; July 11.
- Donaldson, Alfred S., Newark, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Grailing machine. No. 1,426,364; Aug. 22.
- Donaldson, Archibald, Kellogg, Idaho. Metallurgical apparatus. No. 1,432,842; Oct. 24.
- Donaldson, Edwin, Brooklyn, N. Y. Labeling machine. No. 1,419,546; June 13.
- Donaldson, Frank A., Minneapolis, Minn. Air cleaner. No. 1,405,399; Feb. 7.
- Donaldson, Margaret, Paris, Ky. Undergarment. No. 1,407,390; Feb. 21.
- Donaldson, Stuart, Carnegie, Pa. Attachment for spark plugs. No. 1,429,329; Sept. 19.
- Donaldson, Thomas, Summit, Ill. Radiator shutter. No. 1,439,074; Dec. 19.
- Donaldson, Thornycroft, Woolston, England. Furnace for burning pulverized fuel. No. 1,411,846; Apr. 4.
- Donaldson, William, Tacoma, Wash. Hack-saw frame. No. 1,429,195; Sept. 12.
- Donaldson, William T., St. Paul, Minn., assignor to Standard Conveyor Company. Detector for elevators and conveyers. No. 1,422,091; July 11.
- Donat, Joseph L., Chicago, Ill. Antiskid device. No. 1,421,922; July 4.
- Donath, Bruno, Friedeneau, near Berlin, Germany. Electric discharging tube. No. 1,416,623; May 16.
- Donauer, Max, assignor to The Elyria Enameled Products Company, Elyria, Ohio. Controller for agitating mechanisms. No. 1,404,745; Jan. 31.
- Donauer, Max, assignor to The Elyria Enameled Products Company, Elyria, Ohio. Agitating mechanism. No. 1,406,355; Feb. 14.
- Donauer, Max, assignor to The Elyria Enameled Products Company, Elyria, Ohio. Liquid-mixing means. No. 1,430,729; Oct. 3.
- Donavan, Paul J., Denver, Colo. Spark plug. No. 1,418,632; June 6.
- Dondlinger, Eugene J., assignor to Continental Axle Company, Edgerton, Wis. Vehicle body hoist. No. 1,432,389; Oct. 17.
- Donges, Jacob, Drayton, Queensland, Australia. Cooker. No. 1,433,501; Oct. 24.
- Donigan, Horn G., St. Louis, Mo. Blowtorch. No. 1,405,978; Feb. 7.
- Donle, Harold P., Meriden, Conn. Rectifier. No. 1,420,824; June 27.
- Donle, Harold P., assignor to The Connecticut Telephone & Electric Company, Meriden, Conn. Variable resistance. No. 1,415,534; May 9.
- Donle, Harold P., assignor to The Connecticut Telephone and Electric Company, Incorporated, Meriden, Conn. Electric switch. No. 1,424,809; Aug. 8.
- Donle, Harold P., assignor to The Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn. Circuit breaker. No. 1,431,220; Oct. 10.
- Donle, Harold P., assignor to The Connecticut Telephone & Electric Co. Inc., Meriden, Conn. Electric-current-controlling device. No. 1,435,455; Nov. 14.
- Donley, Bert N., Muscatine, Iowa. Detachable handle. No. 1,423,406; July 18.
- Donley Brothers Company, The. (See Cain, Harry N., assignor.)
- Donley, Floyd S., and J. Welsh, Pottstown, Pa. Gag-operating attachment for metal punching machines. No. 1,414,555; May 2.
- Donley, Ford, Cleveland, Ohio. Jack truck. No. 1,403,851; Jan. 17.
- Donley, William F., Binghamton, N. Y. Guard for wood-working machines. No. 1,430,889; Oct. 3.
- Donley, William F., Binghamton, N. Y. Guard for wood-working machines. No. 1,430,890; Oct. 3.
- Donlin, John J., New York, N. Y. Hat guard. No. 1,406,622; Feb. 14.
- Donnell, L. F., et al. (See Serene, Paul, assignor.)
- Donnellan, Edward P., Brooklyn, N. Y., assignor, by mesne assignments, to Standard-Johnson Co. Inc. Wrapper-holding mechanism for coin-counting machines. No. 1,406,623; Feb. 14.
- Donnellan, Frank B., San Francisco, Calif. Means for feeding cans. No. 1,416,178; May 16.
- Donnellan, Frank B., San Francisco, Calif. Cooking retort. No. 1,426,050; Aug. 15.
- Donnelly, Bernard P., assignor to Duffy Manufacturing Co., Holland, Mich. Curtain-light mounting. No. 1,440,344; Dec. 26.
- Donnelly, John F., North Plainfield, N. J. Hair crimper. No. 1,438,585; Dec. 12.
- Donnelly, John R., Fairfield, Me. Game board. No. 1,422,042; July 4.
- Donnelly, Joseph C., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Apparatus for painting and drying match boxes. No. 1,411,420; Apr. 4.
- Donnelly, William T., Brooklyn, N. Y. Tension scarf for timbers. No. 1,413,395; Apr. 18.
- Donnelly, William T., Brooklyn, N. Y. Tension plank splice. No. 1,440,064; Dec. 26.
- Donnelly, William T., Brooklyn, N. Y. Transfer system. No. 1,440,065; Dec. 26.
- Donoho, Murray T., Washington, D. C. Nap-restoring and shine-removing machine. No. 1,432,976; Oct. 24.
- Donohue, John M., assignor to Eastman Kodak Company, Rochester, N. Y. Making cellulose ethers. No. 1,415,023; May 9.
- Donohue, John M., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether solvent and composition. No. 1,434,432; Nov. 7.
- Donop, August W., San Francisco, Calif., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Compressible pile regulator. No. 1,417,151; May 23.
- Donop, August W., assignor, by mesne assignments, to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Compressible rheostat. No. 1,430,007; Sept. 26.
- Donovan, Arthur J., and F. Pokorny, jr., assignors of one-half to said Pokorny and one-half to F. W. Keegan, New York, N. Y. Governor. (Reissue.) No. 15,492; Nov. 21.
- Donovan, Arthur J., Ardsley, and F. Pokorny, jr., Mamaronck, assignors of one-half to said Pokorny and one-half to F. W. Keegan, New York, N. Y. Atomizing liquid fuel. (Reissue.) No. 15,493; Nov. 21.
- Donovan, Arthur J., Ardsley, and F. Pokorny, jr., Mamaronck, assignors of one-half to said Pokorny and one-half to F. W. Keegan, New York, N. Y. Apparatus for the atomization of liquid fuel. (Reissue.) No. 15,494; Nov. 21.
- Donovan, John J., New York, N. Y., assignor of one-half to F. C. List, Honesdale, Pa. Advertising novelty. No. 1,425,513; Aug. 15.
- Donovan, William J., Boston, Mass., assignor of one-half to R. Minton, East Boston, Mass. Guard for ferries, boats, drawbridges, and the like. No. 1,403,750; Jan. 17.
- Donovan, William J., Boston, assignor of one-half to R. Minton, East Boston, Mass. Barrier for drawbridges, streets, and the like. No. 1,437,404; Dec. 5.
- Doody, William S. H., Sydney, New South Wales, Australia. Sandal or slipper. No. 1,407,992; Feb. 28.
- Dooley, Aught R., Leitchville, Saskatchewan, Canada. Harness and leather collar. No. 1,412,345; Apr. 11.
- Dooley, John J., and T. Nilan, New York, N. Y. Sign. No. 1,404,100; Jan. 17.
- Dooley, Will H., Wharton, Tex. Rural mail box. No. 1,432,843; Oct. 24.
- Doolittle, Henry P., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. No. 1,424,394; Aug. 1.
- Doolittle, William G., et al. (See McKean, William C., assignor.)
- Doonan, William D., Butte, Mont. Tool for bending springs. No. 1,417,890; May 30.
- Door Company, The. (See Slade, James V., assignor.)
- Doran, John C., Danbury, Conn. Safety pin. No. 1,413,396; Apr. 18.
- Doran, John C., Danbury, Conn. Shape-retaining means for hats. No. 1,439,299; Dec. 19.
- Doran, John H., Schenectady, N. Y., assignor to General Electric Company. Governor. No. 1,411,991; Apr. 4.
- Doran, John H., Schenectady, N. Y., assignor to General Electric Company. Oil governor. No. 1,411,992; Apr. 4.
- Doran, Moses J., Pierpont, Ohio. Grain-cleaner attachment for thrashing machines. No. 1,431,294; Oct. 10.
- Dorcheff, George, alias G. Theodore, Cincinnati, Ohio. Cabbage cutter. No. 1,422,937; July 18.
- Doré, Elzéar. (See Daignault, Albert, assignor.)
- Dore, Eugene P., and J. A. Kohn, North Fond du Lac, Wis. Clothesline. No. 1,424,626; Aug. 1.
- Dorey, George B., Montreal, Quebec, Canada. Friction draft rigging. No. 1,412,847; Apr. 18.
- Dorey, George B., Montreal, Quebec, Canada. Friction draft rigging. No. 1,430,631; Oct. 3.
- Dorey, George B., Montreal, Quebec, Canada. Friction draft rigging. No. 1,439,803; Dec. 26.

Alphabetical list of patentees—Continued.

- Dorey, William A., Newark, Ohio, assignor to Holophane Glass Company, Inc., New York, N. Y. Projection lens. No. 1,410,898; Mar. 28.
- Dorey, William A., Newark, Ohio, assignor to Holophane Glass Company, Inc., New York, N. Y. Illuminating appliance. No. 1,420,977; June 27.
- Dorey, William A., Newark, Ohio, assignor to Holophane Glass Company, Inc., New York, N. Y. Reflector. No. 1,426,280; Aug. 15.
- Dörffel, Ernst, Bernburg, Germany. Brush holder for electric machines. No. 1,422,188; July 11.
- Dorfman, André, Schumacher, assignor to McIntyre Porcupine Mines Limited, Toronto, Ontario, Canada. Treatment of gold and silver. No. 1,411,326; Apr. 24.
- Dorfman, Herman L., and M. Grossman, New York, assignors of one-half to M. Grossman and one-half to L. Dorfman, Brooklyn, N. Y. Tie clasp. No. 1,433,345; Oct. 24.
- Dorfman, Leo, Wilkinsburg, Pa. Electric clock. No. 1,408,274; Feb. 28.
- Dorfman, Leo, Pittsburg, Tex. Maximum-demand meter. No. 1,409,365; Mar. 14.
- Dorfman, Lillian, et al. (See Dorfman, H. L., and Grossman, assignors.)
- Dorlon, Michael, Rumford, Me. Reel for portable electric lamps. No. 1,411,206; Mar. 28.
- Dorman, Edgar P., assignor to The Crown Cork and Seal Company of Baltimore, Baltimore, Md. Packaging machine. No. 1,434,375; Nov. 7.
- Dorman, Edgar P., Tatsfield, England, assignor to The Crown Cork and Seal Company of Baltimore, Baltimore, Md. Packaging machine. No. 1,434,376; Nov. 7.
- Dorman, George W., assignor to Sumner Iron Works, Everett, Wash. Roll guard for edging machines. No. 1,415,810; May 9.
- Dorman, John P., Deer River, Minn. Flying machine. No. 1,436,243; Nov. 21.
- Dorman, Newel B., Ames, Iowa. Soldering iron. No. 1,430,953; Oct. 3.
- Dormandy, Garry J., assignor of one-half to United Shirt & Collar Company, Troy, N. Y. Lighting fixture. No. 1,409,685; Mar. 14.
- Dorment, Frank C., Cleveland, Ohio. Inhaler. No. 1,410,556; Mar. 28.
- Dorner, Conrad C., Alton, Ill. Can spout. No. 1,401,968; Jan. 3.
- Dorneth, Julius, assignor to Typograph G. m. b. H., Berlin, Germany. Type-line-setting machine. No. 1,408,570; Mar. 7.
- Dörneth, Julius, assignor to Typograph G. m. b. H., Berlin, Germany. Typograph matrix-setting and line-casting machine. No. 1,414,775; May 2.
- Dornier, Claudius, Friedrichshafen, Germany. Tubular hollow body. No. 1,419,828; June 13.
- Dornier, Claudius, Friedrichshafen, Germany. Flying-machine structure. No. 1,430,220; Sept. 26.
- Dornier, Claudius, assignor to Firm Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Construction member. No. 1,419,827; June 13.
- Dornier, Claudius, assignor of one-half to Dornier, Metallbauten Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Supporting plane. No. 1,427,447; Aug. 29.
- Dornier, Claudius, Friedrichshafen, assignor to Zeppelinwerke Lindau, Gesellschaft mit beschränkter Haftung, Lindau-Reutin, Germany. Flying-machine cover. No. 1,427,448; Aug. 29.
- Dornier, Claudius, assignor of one-half to Dornier-Metallbauten, Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Flying boat. No. 1,438,986; Dec. 19.
- Dornier, Claudius, assignor to Firm Dornier Metallbauten Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Hollow body for aviation purposes. No. 1,440,282; Dec. 26.
- Dornier-Metallbauten, Gesellschaft mit beschränkter Haftung. (See Dornier, Claudius, assignor.)
- Dörnte, Carl H. M., Hamburg, Germany. Tackle block. No. 1,433,346; Oct. 24.
- Doron, Joseph W., assignor of one-half to S. W. Doron, Hamilton, Ohio. Variometer. No. 1,408,992; Mar. 7.
- Doron, Shuler W. (See Doron, Joseph W., assignor.)
- Doroszuk, Tom, Polley, Wis. Combination table and chair. No. 1,420,368; June 20.
- Dorozynsky, Paul. (See Sliworsky, A., and Dorozynski.)
- Dorozynski, Paul, Winnipeg, Manitoba, Canada. Permutation lock. No. 1,413,525; Apr. 18.
- Dorozynski, Paul, Winnipeg, Manitoba, Canada. Mechanical toy. No. 1,434,329; Oct. 31.
- Dorr Company, The. (See Peck, Charles L., assignor.)
- Dorr Company, The. (See Ramsey, E. R., and Blomfield, assignors.)
- Dorr, John V. N., New Canaan, Conn. Settling apparatus. No. 1,434,596; Nov. 7.
- Dorr, John V. N., New Canaan, Conn. Settling apparatus. No. 1,434,597; Nov. 7.
- Dorrance, Charles J., Chicago, Ill. Trolley harp. No. 1,424,716; Aug. 1.
- Dorrance, Charles J., Chicago, Ill. Flexible trolley harp. No. 1,424,717; Aug. 1.
- Dorrans, William J., Chicago, Ill. Tool holder. No. 1,438,368; Dec. 12.
- Dorsch, Peter M., et al. (See Wrenn, H. A., and Phillips, assignors.)
- Dorseth, John A., Flom, Minn. Trap. No. 1,410,738; Mar. 28.
- Dorsey, David J., Baton Rouge, La. Fuel-oil burner. No. 1,410,389; Mar. 21.
- Dorsey, Farnum F., assignor to North East Electric Company, Rochester, N. Y. Ignition apparatus. No. 1,405,979; Feb. 7.
- Dorsey, Farnum F., assignor to North East Electric Company, Rochester, N. Y. Odometer. No. 1,409,266; Mar. 14.
- Dorsey, Farnum F., assignor to North East Electric Company, Rochester, N. Y. Epicycloidal gearing. No. 1,435,821; Nov. 14.
- Dorsey, Frank M. (See Lenher, V., and Dorsey.)
- Dorsey, Farmer, Wichita, Kans., assignor to Henderson-Willis Welding and Cutting Company, St. Louis, Mo. Gas generator. No. 1,422,938; July 18.
- Dorsey, Sherman H., assignor to Traffic Motor Truck Corporation, St. Louis, Mo. Automobile lock. No. 1,417,661; May 30.
- Dorsey, Walter A., assignor to The Bonney-Floyd Company, Columbus, Ohio. Mine car. No. 1,417,043; May 23.
- Dorsey, Walter A., assignor to The Bonney-Floyd Company, Columbus, Ohio. Car. No. 1,417,044; May 23.
- Dortmunder Vulkan Aktiengesellschaft. (See Gmeinder, Anton, assignor.)
- Dorward, James L., San Francisco, Calif. Necktie holder. No. 1,409,158; Mar. 14.
- Dorward, James L., West New York, N. J. Necktie-holder lock. No. 1,437,096; Nov. 28.
- Dorweiler, Harry J. (See Berndt, William, assignor.)
- Dosse, Dora. (See Dreyer, Frederick, assignor.)
- Dossor, Frederick M., Doncaster, England. Apparatus for cleaning and separating seeds, grain, and the like. No. 1,415,811; May 9.
- Doswell, Harold H., and A. E. Kover, Fort Wayne, Ind. Form for plastic burial vaults. No. 1,409,686; Mar. 14.
- Dotts, Christ F., Millvale, assignor of one-third to D. Moore, Pittsburgh, Pa. Wire-line clamp. No. 1,403,152; Jan. 10.
- Dotts, Christ F., Millvale, assignor of one third to D. Moore, Pittsburgh, Pa. Locking device. No. 1,407,326; Feb. 21.
- Doty, Leman E., Elyria, Ohio, and F. H. Smith, Brentwood Borough, Pa. Apron for coke-oven doors. No. 1,422,756; July 11.
- Doty, Leo J., Kansas City, Mo. Film reel. No. 1,409,533; Mar. 14.
- Dotzer, Hugo, and S. G. Barnard, Seattle, Wash.; said Barnard assignor to said Dotzer. Brake mechanism. No. 1,422,423; July 11.
- Dotzert, Hugo, Seattle, Wash. Valve for internal-combustion engines. No. 1,407,644; Feb. 21.
- Doub, Fletcher H., assignor to Goswado Mfg. Company, Alameda, Calif. Making hats. No. 1,432,280; Oct. 17.
- Double, Alice. (See Liddy, Fred G., assignor.)
- Double-Drive Truck Company, The. (See Keck, Robert, assignor.)
- Dougall, Percy, Kidderminster, England. Internal-combustion engine. No. 1,423,407; July 18.
- Dougall, Wilfrid, Montreal, Quebec, Canada. Stamping machine for signal-reading ribbons. No. 1,414,939; May 2.
- Dougall, Wilfrid, Montreal, Quebec, Canada. Reading ribbon in signaling machines. No. 1,422,842; July 18.
- Dougan, Kennedy, Minneapolis, Minn. Temperature regulator. No. 1,420,916; June 27.
- Dougan, Kennedy, Minneapolis, Minn. Projectile. No. 1,428,683; Sept. 12.
- Dougherty, Edward D., Dallas, Tex. Pneumatic-tire valve. No. 1,420,245; June 20.
- Dougherty, James W., McKeesport, Pa. Toy vehicle. No. 1,420,308; June 20.
- Doughtie, John E. (See Howell, Henry M., assignor.)
- Doughty, Henry J. (See Atcheson, Robert H., assignor.)
- Doughty, Howard W., Amherst, Mass., assignor to Alchemic Gold Company, Inc. Ink. No. 1,439,695; Dec. 26.
- Doughty, Howard W., Amherst, Mass., assignor to Alchemic Gold Company, Inc. Ink. No. 1,439,696; Dec. 26.
- Doughty, Theodore A., Fargo, N. Dak. Stove. No. 1,402,924; Jan. 10.
- Douglas, Albert V., Pueblo, Colo. Means for shaping and tempering leaf springs. No. 1,432,977; Oct. 24.
- Douglas, D. Dwight, et al., trustees. (See Hammond, Laurens, assignor.) (Reissue.)
- Douglas, Elizabeth J., Crete, Nebr. Vehicle trailer. No. 1,427,365; Aug. 29.
- Douglas, Ernest, Portersville, Calif. Marking machine. No. 1,420,187; June 20.
- Douglas, Harry A., Bronson, Mich. Reflecting lamp. No. 1,402,844; Jan. 10.
- Douglas, Harry A., Bronson, Mich. Internal-combustion engine. No. 1,407,519; Feb. 21.
- Douglas, Harry A., Bronson, Mich. Lamp. No. 1,415,087; May 9.
- Douglas, Harry A., Bronson, Mich. Circuit connector. No. 1,422,257; July 11.

Alphabetical list of patentees—Continued.

- Douglas, Harry A., Bronson, Mich. Contact carrier. No. 1,432,844; Oct. 24.
- Douglas, Harry A., Bronson, Mich. Rheostat. No. 1,438,753; Dec. 12.
- Douglas, John, Company, The. (See McNeil, John, assignor.)
- Douglas, John E., Ellensburg, Wash. Runner for baby carriages. No. 1,416,454; May 16.
- Douglas, Louis M. (See Parsons, C. A., Cook, and Douglas.)
- Douglas, M. D., administrator. (See Bush, Hazel B.)
- Douglas Motors Limited. (See Douglas, W. W., and Bailey, assignors.)
- Douglas, Philip F., Minnedosa, Manitoba, Canada. Bobbin winder. No. 1,423,313; July 18.
- Douglas, William, Pawtucket, R. I. Trammel. No. 1,422,345; July 11.
- Douglas, William W., Bristol, and S. L. Bailey, Staple Hill, assignors of one-third to Douglas Motors Limited, Bristol, England. Lubrication of pistons. No. 1,437,585; Dec. 5.
- Douglass, Benjamin, Fulton, Ark. Steering device for tractor-drawn machines. No. 1,420,188; June 20.
- Douglass, Howard H., Los Angeles, Calif. Spring compressor. No. 1,429,024; Sept. 12.
- Douglass, Leon F., San Rafael, Calif. Device for producing multiple-image effects. No. 1,410,557; Mar. 28.
- Douglass, Leon F., Menlo Park, Calif. Method and apparatus for producing multiple-image effects in photography. No. 1,424,886; Aug. 8.
- Douglass, Leon F., San Rafael, Calif. Method of and apparatus for producing stereoscopic photographic films. No. 1,429,495; Sept. 19.
- Douglass, Leon F., Menlo Park, Calif. Method and apparatus for producing multiple and varied image effects in photography. No. 1,438,906; Dec. 12.
- Douglass, Napoleon B., Oakland, Calif. Forming hinge joints. No. 1,406,727; Feb. 14.
- Douglass, Roy D., Minneapolis, Minn. Traffic signal. No. 1,417,809; May 30.
- Douglass, William O., Broken Arrow, Okla. Plow point. No. 1,420,024; June 20.
- Doujak, Maria, New York, N. Y. Automobile safety device. No. 1,417,305; May 23.
- Doulett, Henry T., Brockton, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Eyeletting machine. No. 1,434,356; Oct. 31.
- Doulton, Henry L., S. F. Corby, and R. J. Pleece, London, England. Water silencer. No. 1,406,943; Feb. 14.
- Douros, Peter. (See Scarborough, Donald S., assignor.)
- Douthitt, Earl J., assignor of one-half to J. B. Fields, Bloomington, Ind. Child's vehicle. No. 1,434,105; Oct. 31.
- Douty, Fred A., assignee. (See Hatch, Edward.) (Re-issue.)
- Dovan Chemical Corporation. (See Weiss, Morris L., assignor.)
- Dover, George W., Cranston, R. I., assignor to George W. Dover, Incorporated. Thread-cutting tool. No. 1,413,326; Apr. 18.
- Dover, Horace W., Northampton, England. Hand wheel. No. 1,411,239; Mar. 28.
- Dover, Horace W., St. James, England. Handwheel. No. 1,412,678; Apr. 11.
- Dover Manufacturing Company, The. (See Earle, Robert W., assignor.)
- Dover Manufacturing Company, The. (See Straszky, Emil, assignor.)
- Dow, Alva M., Braintree, Mass. Dishwashing machine. No. 1,420,418; June 20.
- Dow, Alva M., Braintree, Mass. Dishwashing machine. No. 1,432,163; Oct. 17.
- Dow Chemical Company. (See Cone, Lee E. H., assignor.)
- Dow Chemical Company, The. (See Dow, Herbert H., assignor.)
- Dow Chemical Company, The. (See Harlow, Ivan F., assignor.)
- Dow Chemical Company, The. (See Morrison, Charles N., assignor.)
- Dow Chemical Company, The. (See Putnam, M. E., and Kirst, assignors.)
- Dow Chemical Company, The. (See Strosacker, C. J., and Rupright, assignors.)
- Dow Chemical Company, The. (See Strosacker, Charles J., assignor.)
- Dow Company, The. (See Peck, Charles L., assignor.)
- Dow, Fred T., Bangor, Me. Peat product. No. 1,414,344; May 2.
- Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Method of and apparatus for extracting bromine. No. 1,406,624; Feb. 14.
- Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Blanketing medium for chemical fusions and making same. No. 1,411,421; Apr. 4.
- Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Lachrymatory gas. No. 1,411,422; Apr. 4.
- Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Apparatus for drying materials. No. 1,415,160; May 9.
- Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Making insecticides. No. 1,417,232; May 23.
- Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Insecticide and making same. No. 1,420,978; June 27.
- Dow, Herbert H., Midland, Mich., assignor to The Dow Chemical Company. Protective printing. No. 1,428,278; Sept. 5.
- Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Coking process. No. 1,435,219; Nov. 14.
- Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Chlorinating organic compounds. No. 1,437,636; Dec. 5.
- Dow Wire & Iron Works. (See Covert, Homer L., assignor.)
- Dow Wire & Iron Works. (See Logan, Robert S., assignor.)
- Dowaglac Drill Company. (See Fowle, C. L., and Bills, assignors.)
- Dowald, Adolf, Bremen, Germany. Roller for sliding doors and the like. No. 1,414,630; May 2.
- Dowd, Andrew D., Hoboken, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Printing telegraph system. No. 1,432,978; Oct. 24.
- Dowd, Bernard J., Hartford, Conn., assignor to Royal Typewriter Company, Inc., New York, N. Y. Sound-muffling pad for typewriting machines. No. 1,420,082; June 20.
- Dowd, James F., Newport, R. I. Bottle top. No. 1,419,829; June 13.
- Dowd, John P., assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio. Grab bucket. No. 1,415,812; May 9.
- Dowd, Thomas J., New York, N. Y. Adjustable tap and die. No. 1,429,850; Sept. 19.
- Dowdall, Augustus S. (See Campbell, John, assignor.)
- Dowdall, James T., Glen Morris, N. Y. Hat sweatband. No. 1,420,639; June 27.
- Dowdall, James T., Glen Morris, N. Y. Sweatband for straw and other hats. No. 1,420,690; June 27.
- Dowdy, Irvin J. (See Dowdy, Morton T. and I. J.)
- Dowdy, Morton T. and I. J., East Bakersfield, Calif. Plow. No. 1,437,294; Nov. 28.
- Dowler, Charles R., Fellows, Calif. Safety anchor. No. 1,408,082; Feb. 28.
- Dowler, Jacob W., Philadelphia, Pa., assignor to S. L. Allen & Co., Inc. Power-lift agricultural implement. No. 1,412,781; Apr. 11.
- Dowling, John J., Rathgar, Ireland. Electrical means for detecting, observing, indicating, measuring, or utilizing minute movements. No. 1,431,638; Oct. 10.
- Down, Edith B., Watertown, N. Y. Attachment for beds. No. 1,422,939; July 18.
- Down, Ernest U., Bowling Green, Ohio. Advertising-sign repeater. No. 1,439,697; Dec. 26.
- Downard, James S., Ardmore, Okla. Paving block and making the same. No. 1,405,302; Jan. 31.
- Downer, Fred O., Battle Creek, Mich., assignor to Shirley Brothers Company, Incorporated, Indianapolis, Ind. Casket mold. No. 1,402,845; Jan. 10.
- Downer, Henry E., Princeton, Ill. Coal-chute attachment. No. 1,407,391; Feb. 21.
- Downey, Hugh R., Merna, Nebr. Transmission-spring compressor and holder. No. 1,433,944; Oct. 31.
- Downey, James H. (See Harris, H. E., and Downey.)
- Downey, Richard F., assignor of one-half to W. J. Cary, Milwaukee, Wis. Mushroom light. No. 1,410,007; Mar. 21.
- Downey, Richard F., assignor of one-half to W. J. Cary, Milwaukee, Wis. Amusement device. No. 1,432,746; Oct. 24.
- Downie, James H., San Antonio, Tex. Center-forming device. No. 1,430,730; Oct. 3.
- Downie, Robert R., Beaver Falls, Pa., assignor to Keystone Driller Company. Traction wheel. No. 1,430,801; Oct. 3.
- Downing, Hiram, Spokane, Wash. Grain separator. No. 1,405,766; Feb. 7.
- Downing, John L. (See Chambers, H. E., and Downing.)
- Downing, Robert H., St. Louis Park, Minn. Dental tool sharpener. No. 1,411,713; Apr. 4.
- Downing Roswell, Oklahoma, Okla. Lock for automobiles. No. 1,408,447; Mar. 7.
- Downing, Virgil S., Jackson, Miss. Boat construction. No. 1,408,178; Feb. 28.
- Dox, Frank, Pittsburgh, Pa. Segment-trimming instrument. No. 1,426,263; Aug. 15.
- Doyal, Waldemar E., and R. Hagopian, Berkeley, Calif. Vehicle. No. 1,426,719; Aug. 22.
- Doyle, Edward W., Newberg, Oreg. Saw gauge. No. 1,437,586; Dec. 5.
- Doyle, Ella W., Atlanta, Ga. Shovel or scoop. No. 1,427,523; Aug. 29.
- Doyle, James E., Cleveland, Ohio. Heating accessory for sheet conveyers. No. 1,402,151; Jan. 3.
- Doyle, James E., Cleveland, Ohio. Inking mechanism for printing presses. No. 1,403,236; Jan. 10.
- Doyle, James E., Cleveland, Ohio. Method of and means for heating printed sheets. No. 1,405,506; Feb. 7.
- Doyle, James S. (See Hedley, F., and Doyle.)
- Doyle, Mason I. (See Schweinsberg, G. W., and Doyle.)
- Doyle, Nicholas J., Buffalo, N. Y. Apparatus for holding and discharging coins. No. 1,434,106; Oct. 31.
- Doyle, Patrick A., assignor of one-fourth to J. Sargent, Copenhagen, N. Y. Motor sleigh. No. 1,404,101; Jan. 17.

Alphabetical list of patentees—Continued.

- Doyle, Redmond I. (See Schultz, A., Tucker, and Doyle.)
 Doyle, Thomas, Cato, Wis. Cheese-hoop follower. No. 1,436,339; Nov. 21.
 Drabenstott, Glenn H., Wooster, Ohio. Refillable electric fuse. No. 1,429,938; Sept. 26.
 Draeger, Lloyd H., assignor to Badger Excavator Co., Milwaukee, Wis. Excavating and loading machine. No. 1,431,105; Oct. 3.
 Dräger, Alexander B., Lubeck, Germany. Stop valve for pressure gas containers. No. 1,424,810; Aug. 8.
 Drahonovsky, John B., assignor to Mechanical Production Co., Milwaukee, Wis. Timer for internal-combustion engines. No. 1,413,011; Apr. 18.
 Drakas, John P. (See Arteme, Thomas K., assignor.)
 Drake, A. W., Manufacturing Company. (See Ravert, William I., assignor.)
 Drake, Alden M. (See Heald, J. N., and Drake.)
 Drake, Edward F., Danbury, Conn. Flame spreader. No. 1,427,096; Aug. 29.
 Drake, Francis E., Davenport, Iowa. Auto hoist. No. 1,413,526; Apr. 18.
 Drake, Francis E., Davenport, Iowa. Hoist. No. 1,426,264; Aug. 15.
 Drake, George W., Cleveland Heights, and Leslie R. Tufts, Cleveland, assignors to The Warner and Swasey Company, Cleveland, Ohio. Stock-bar-feeding mechanism. No. 1,402,748; Jan. 10.
 Drake, Harley D., Washington, D. C. Drier. No. 1,403,016; Jan. 10.
 Drake, James C., Rochester, Minn., assignor to Sears, Roebuck and Company, New York, N. Y. Sound box for talking machines. No. 1,419,238; June 13.
 Drake, Jonas W., Halifax, England. Apparatus for controlling the draft on furnaces. No. 1,414,631; May 2.
 Drake, Melvin O., Stratford, Iowa. Power-driven corn picker. No. 1,430,802; Oct. 3.
 Drake, Robert Z., Omaha, Nebr. Bridge shoe. No. 1,425,320; Aug. 8.
 Drake, Rollin L., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Handle assembling and soldering machine. No. 1,404,746; Jan. 31.
 Drake, Thomas J., Sadieville, Ky. Gate. No. 1,421,422; July 4.
 Drake, Tom, and Robert D. Carter, Broadheath, assignors to Linotype and Machinery Limited, London, England. Distributing mechanism of typographical composing machines. No. 1,424,887; Aug. 8.
 Drake, Tom, and E. Gayter, Altrincham, assignors to Linotype and Machinery Limited, London, England. Escapement mechanism for typographical composing machines. No. 1,440,066; Dec. 26.
 Drake, Verna P., Oklahoma, Okla. Lawn mower and clippers. No. 1,420,309; June 20.
 Drake, William L. (See Wear, W. M., and Drake.)
 Drakenfeld, B. F., & Co. (See d'Adrian, Alexander L. D., assignor.)
 Drambourg, Rudolphe, Brooklyn, N. Y., assignor, by mesne assignments, to Federal Battery Manufacturing Corporation, Washington, D. C. Storage-battery plate. No. 1,403,394; Jan. 10.
 Draper, Benjamin, Liverpool, England. Gauge, more particularly for use for gauging tapered holes. No. 1,428,948; Sept. 12.
 Draper, Charles T., assignor to The Draper Manufacturing Company, Cleveland, Ohio. Removable false head for metallic containers. No. 1,422,043; July 4.
 Draper, Charles T., assignor to The Draper Manufacturing Company, Cleveland, Ohio. Closure member for sheet metal containers. No. 1,436,021; Nov. 21.
 Draper Corporation. (See Baker, William H., assignor.)
 Draper Corporation. (See Coldwell, Joseph, assignor.)
 Draper Corporation. (See Dillaber, Alvin R., assignor.)
 Draper Corporation. (See Gagnon, Ernest A., assignor.)
 Draper Corporation. (See Hedler, Henry J., assignor.)
 Draper Corporation. (See Lane, Charles B., assignor.)
 Draper Corporation. (See Leonard, Harry A., assignor.)
 Draper Corporation. (See Norris, Frederick J., assignor.)
 Draper Corporation. (See Rhoades, Alonzo E., assignor.)
 Draper Corporation. (See Snow, Isaac, assignor.) (Reissue.)
 Draper Corporation. (See Spofford, George E., assignor.)
 Draper Corporation. (See Stafford, Alfred E., assignor.)
 Draper Corporation. (See Stimpson, Edward S., assignor.)
 Draper Corporation. (See Stone, Melvin L., assignor.)
 Draper Corporation. (See Vanhousenbrouck, Charles E., assignor.)
 Draper Corporation. (See Youngquist, Henry W., assignor.)
 Draper, Ernest G. (See Zeller, William C., assignor.)
 Draper, Isaac S., Sullivan, Ind. Voting booth. No. 1,421,423; July 4.
 Draper Manufacturing Company, The. (See Draper, Charles T., assignor.)
 Draver, Emil R., Richmond, Ind. Disk wheel. No. 1,411,423; Apr. 4.
 Draver, Emil R., Richmond, Ind. Means for charging pneumatic tires with dust-laden air. No. 1,411,424; Apr. 4.
 Draver, Emil R., Richmond, Ind. Shock absorber. No. 1,412,461; Apr. 11.
 Draver, Emil R., Richmond, Ind. Disk wheel. No. 1,417,233; May 23.
 Draver, Emil R., Richmond, Ind. Wheel carrier. No. 1,418,134; May 30.
 Draver, Emil R., Richmond, Ind. Percentage feeder. No. 1,435,822; Nov. 14.
 Draver, Emil R., Richmond, Ind., assignor to B. F. Gump Company, Chicago, Ill. Feeding device. No. 1,415,319; May 9.
 Dravis, William F., Waukon, Iowa. Fender for corn cultivators. No. 1,405,980; Feb. 7.
 Dray, William J., New York, N. Y. Grate-cleaning appliance. No. 1,437,749; Dec. 5.
 Dreaaper, William P., London, England. Manufacture of viscose solutions. No. 1,418,135; May 30.
 Dreaaper, William P., London, England. Manufacture of artificial threads or filaments. No. 1,418,136; May 30.
 Dreaaper, William P., London, England. Process and apparatus for the manufacture of artificial silk or the like. No. 1,437,340; Nov. 28.
 Dreaaper, William P., London, England. Manufacture of artificial filaments and the like. No. 1,437,341; Nov. 28.
 Dreese, Delbert B., Larned, Kans. Dust cap for tire valves. No. 1,439,300; Dec. 19.
 Dreffein, Henry A., Chicago, Ill. Apparatus for manufacture of gasoline or the like. No. 1,413,327; Apr. 18.
 Drefs, Edward, Milwaukee, Oreg. Bed-bottom fabric. No. 1,423,918; July 25.
 Dreher, Frank A., Dover, Ohio. Connecting rod. No. 1,423,788; July 25.
 Dreiske, William D., Oak Park, Ill. Indicating instrument. No. 1,428,363; Sept. 5.
 Dremann, Henry L., Quincy, Ill. Twine holder. No. 1,437,295; Nov. 28.
 Dremel, Albert J., assignor to The Maytag Company, Newton, Iowa. Folding basket stand. No. 1,413,710; Apr. 25.
 Dremel, Albert J., assignor to The Maytag Company, Newton, Iowa. Washing machine. No. 1,417,306; May 23.
 Drescher, Michael, Averill Park, N. Y. Gun support. No. 1,426,967; Aug. 22.
 Drescher, Theodore B., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Bifocal or multifocal lens. No. 1,414,117; Apr. 25.
 Drescher, Theodore B., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Multifocal lens and making the same. No. 1,415,535; May 9.
 Drescher, Theodore B., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Lens-blank holder. No. 1,436,156; Nov. 21.
 Dresen, Charles J., Spring Green, Wis. Shingler's straightedge. No. 1,414,556; May 2.
 Dresner, Samuel, Chicago, Ill. Corner-piece or edge-piece protection for traveling bags. No. 1,433,263; Oct. 24.
 Dressel Collapsible Rim Manufacturing Company, The. (See Dressel, Warren E.) (Reissue.)
 Dressel, Warren E., deceased, Edwardsville, Ill., by The Dressel Collapsible Rim Manufacturing Company, St. Louis, Mo., assignee. Collapsible rim for pneumatic tires. (Reissue.) No. 15,366; May 30.
 Dresser, S. R., Manufacturing Company. (See Clark, James, assignor.)
 Dressler, Charles E., New York, N. Y. Clock lamp. No. 1,439,075; Dec. 19.
 Drevitson, Carl B., Somerville, Mass. Skate. No. 1,405,981; Feb. 7.
 Drevitson, Carl B., Somerville, Mass. Connecting rod. No. 1,427,788; Sept. 5.
 Drew, Clarence M., Plymouth, N. H. Snow shoe. No. 1,407,645; Feb. 21.
 Drew, Frank W., Minneapolis, Minn. Voucher sheet. No. 1,411,847; Apr. 4.
 Drew, James S., Perth, Western Australia, Australia. Costume, garment, or like wearing apparel for bathing, swimming, or life saving. No. 1,428,151; Sept. 5.
 Drew, John W., assignor to Moon Brothers Manufacturing Company, St. Louis, Mo. Pump-cylinder head. No. 1,428,222; Sept. 5.
 Drewitz, Walter, Essen, assignor to Fried. Krupp Aktien-gesellschaft, Essen-on-the-Ruhr, Germany. Producing volute springs from metal ribbons or the like. No. 1,412,303; Apr. 11.
 Drews, Herbert W., Danville, Ill. Mold. No. 1,424,627; Aug. 1.
 Drexler, John, Milwaukee, Wis. Soft-collar fastener. No. 1,434,533; Nov. 7.
 Drexler, Joseph, assignor to Sargent & Company, New Haven, Conn. Lock for gear-shift levers and the like. No. 1,437,795; Dec. 5.
 Dreyer, Frederick, assignor of one-half to D. Dosse, Chicago, Ill. Box opener. No. 1,409,367; Mar. 14.
 Dreyer, Henry G., Cleveland, Ohio. Thief check for automobiles. No. 1,431,515; Oct. 10.
 Dreyfus, Henry, London, England. Manufacture of acetic anhydride. No. 1,430,304; Sept. 26.
 Dreyfus, Henry, London, England. Cellulose-acetate composition. No. 1,440,006; Dec. 26.
 Driggs, Frank S., Southington, Conn. Cream dipper. No. 1,426,968; Aug. 22.
 Driggs, Louis L., Jr., New York, N. Y. Fixed ammunition. No. 1,417,460; May 23.
 Driscoll, Leonard P. (See Waterer, Harold C., assignor.)
 Driscoll, Roy A., Great Falls, Mont. Electric furnace. No. 1,421,185; June 27.
 Driscoll, William J., Boston, Mass. Dispenser of liquids. No. 1,409,159; Mar. 14.

Alphabetical list of patentees—Continued.

- Drish, Frank W., Sullivan, Ill. Crumb tray. No. 1,407,053; Feb. 21.
- Driver, Frank L., jr., Newark, assignor to Driver-Harris Company, Harrison, N. J. Method and means of treating molten metal. No. 1,437,405; Dec. 5.
- Driver-Harris Company. (See Driver, Frank L., jr., assignor.)
- Driver, Wilbur B., East Orange, N. J., assignor to New York Bath Manufacturing Co. Infant's dressing stand. No. 1,426,160; Aug. 15.
- Drohan, Thomas E., Schenectady, N. Y., assignor to General Electric Company. Contact finger and making the same. No. 1,415,320; May 9.
- Drolet, Charles, sr., Philadelphia, Pa. Sanitary and safety milk-bottle container. No. 1,438,907; Dec. 12.
- Drolet, Gaudiose P. A. P. J., Quebec, Quebec, Canada. Means for operating elevator gates. No. 1,407,392; Feb. 21.
- Droll, Joseph W., Oakland, Calif., assignor to Droll Patents Corporation. Mattress-roll-forming machine. (Reissue.) No. 15,373; June 6.
- Droll Patents Corporation. (See Droll, Joseph W., assignor.) (Reissue.)
- Drope, Clarence J., assignor to Derby Tire Co., Minneapolis, Minn. Vulcanizing device. No. 1,404,942; Jan. 31.
- Dross, William, Newark, N. J., assignor of thirty one-hundredths to G. M. Richardson, Harriettstown, N. Y. Lathe. No. 1,433,605; Oct. 31.
- Droste, Maria H. P., Manati, P. R. Steamer trunk. No. 1,429,068; Sept. 12.
- Droter, John. (See Olsen, George, assignor.)
- Druar, Frank J., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. No. 1,422,346; July 11.
- Druce, Harold M., San Antonio, Tex. Concrete and asphalt mixer. No. 1,432,323; Oct. 17.
- Drucker, William J., New York, assignor to National Mayonnaise Machine Company, Inc., Brooklyn, N. Y. Emulsifier. No. 1,436,307; Nov. 21.
- Druva, John T., Long Meadow, Mass., assignor to Henry Hyman & Co. Inc., New York, N. Y. Portable electric light. No. 1,432,164; Oct. 17.
- Druitt, Percy W., and W. R. Gilpin, London, England. Space-casting mechanism of typographic machines. No. 1,407,460; Feb. 21.
- Druitt, Percy W., and W. R. Gilpin, London, England. Typographic machine. No. 1,419,030; June 6.
- Drum, Charles, California, Pa. Automatic gate mechanism for elevator and mine shafts. No. 1,423,919; July 25.
- Drum, James B., and F. J. Everett, Wilkes-Barre, Pa. Bicycle. No. 1,405,982; Feb. 7.
- Drumb, John, assignor to McKinnon Dash Company, Buffalo, N. Y. Wheel hub. No. 1,405,105; Jan. 31.
- Drumbeller, William P., Springfield, assignor to William Carter Company, Needham Heights, Mass. Yarn control for knitting machines. No. 1,420,530; June 20.
- Drummond, Arthur, Ryde's Hill, near Guildford, England. Lathe slide. No. 1,415,226; May 9.
- Drummond, Arthur, Ryde's Hill, near Guildford, England. Lathe body. No. 1,415,227; May 9.
- Drummond, Arthur, Ryde's Hill, near Guildford, England. Lathe. No. 1,415,228; May 9.
- Drummond, Arthur, Ryde's Hill, near Guildford, England. Mandrel and associated member of lathes. No. 1,415,229; May 9.
- Drummond, Arthur, Ryde's Hill, near Guildford, England. Abutment for the lead screws of lathes. No. 1,424,628; Aug. 1.
- Drummond, Arthur, Ryde's Hill, near Guildford, England. Headstock of lathes. No. 1,424,629; Aug. 1.
- Drummond, Arthur, Ryde's Hill, near Guildford, England. Slide rest of lathes. No. 1,426,365; Aug. 22.
- Drummond, Arthur, Ryde's Hill, near Guildford, assignor to The Birmingham Small Arms Company, Limited, Small Heath, Birmingham, England. Tool slide of lathes. No. 1,402,581; Jan. 3.
- Drummond, Arthur, Ryde's Hill, near Guildford, assignor to The Birmingham Small Arms Company, Limited, Small Heath, Birmingham, England. Lathe. No. 1,402,582; Jan. 3.
- Drummond, Basil E., Holden, W. Va. Rail bender. No. 1,413,527; Apr. 18.
- Drummond, Hal C., Davenport, Iowa. Spirit level and plumb. No. 1,435,054; Nov. 7.
- Drummond, Theodore E., assignor of one-half to T. H. Clinton, Fort Smith, Ark. Cup-leather expander. No. 1,412,231; Apr. 11.
- Drumtra, Adam. (See Ellery, J. B., and Drumtra.)
- Drury, Frank, Aintree, Liverpool, assignor to G. H. Williamson & Sons, Limited, Worcester, England. Manufacture of blanks of sheet metal. No. 1,424,005; July 25.
- Druze, Warren D., Kahoka, Mo. Mold. No. 1,418,137; May 30.
- Drusbach, Theodor, New Durham, N. J. Amusement device. No. 1,437,406; Dec. 5.
- Dry Hand Mop Company. (See Kenner, Duncan, assignor.)
- Dry Oil Products Limited. (See Dunham, Henry V., assignor.)
- Drying Systems, Inc. (See Bolling, John E., assignor.)
- Drying Systems, Inc. (See Currier, Charles H., assignor.)
- Drysdale, Frederick J., Middle Brighton, Victoria, Australia. Means for raising and lowering goods. No. 1,434,880; Nov. 7.
- Dry-Zero Corporation, The. (See Lindsay, Harvey B., assignor.)
- Dubbs, Carbon P., Wilmette, assignor to Universal Oil Products Company, Chicago, Ill. Treating oils. No. 1,411,961; Apr. 4.
- Dubbs, Sylvester S., Clarendon, Tex. Detachable washer. No. 1,425,182; Aug. 8.
- Dubeault, Camille, Chico, Calif. Direction signal for automobiles. No. 1,426,281; Aug. 15.
- Dubee, Adela J., Glens Falls, N. Y. Combined bed, cot, and stretchers for motor vehicles. No. 1,402,846; Jan. 10.
- Dubee, Adela J., Glens Falls, N. Y. Door lock. No. 1,410,558; Mar. 28.
- Dubee, Adela J., Glens Falls, N. Y. Safety lock for automobile footboards. No. 1,426,282; Aug. 15.
- Duberstein, Samuel, Brooklyn, N. Y. Cap or hat. No. 1,412,171; Apr. 11.
- Dubey, Albert E. (See Schuler, Frank M., assignor.)
- Dubief, Philibert A. M., Courbevoie, France. Apparatus for the reproduction of drawings by artificial light. No. 1,425,636; Aug. 15.
- Dubilier Condenser & Radio Corporation. (See Dubilier, William, assignor.)
- Dubilier, William, New York, N. Y., assignor to Dubilier Condenser & Radio Corporation. Variable condenser. No. 1,429,227; Sept. 19.
- Dubois, Charles L., and C. Reynold, Lausanne, Switzerland. Circuit controller. No. 1,437,047; Nov. 28.
- Du Bois, David I. (See Headley, B. T., and Du Bois.)
- Du Bois, Edward J. and G. C. Albany, N. Y. Manufacturing piston rings. No. 1,440,283; Dec. 26.
- Du Bois, George C. (See Du Bois, Edward J. and G. C.)
- Dubois, Joseph. (See Lambert, A. H., and Dubois.)
- Dubois, Nazaire. (See Bourgeois, Victor L. J., assignor.)
- Dubois, Robert, Paris, France. Tail-valve apparatus for compressed-air brakes. No. 1,404,102; Jan. 17.
- Dubois, Willie and Z., Biddeford, Me. Loom picker. No. 1,415,161; May 9.
- Dubois, Zoel. (See Dubois, Willie and Z.)
- Du Bose, Marion A., and N. M. Harrison, Memphis, Tenn. Valve-lifting device. No. 1,438,022; Dec. 5.
- Dubowlk, Mikolaj, Worcester, Mass. Gauge. No. 1,411,685; Apr. 4.
- Du Brie, Stanley R., Detroit, Mich. Air heater and moisture supply for carburetors. No. 1,419,239; June 13.
- Du Broy, John O., assignor to Great Western Manufacturing Co., Laporte, Ind. Cycle saddle. No. 1,440,213; Dec. 26.
- Dubuisson, Jules E., Pensacola, Fla. Coffeepot. No. 1,413,012; Apr. 18.
- Duby, John F., Boston, Mass. Gauge for vehicle wheels. No. 1,440,067; Dec. 26.
- Duckett, Elgah H., assignor of one-half to E. Boyce, Pine Bluff, Ark. Well-capping device. No. 1,404,350; Jan. 24.
- Duckman, Arthur M., London, England. Gas-fired pottery kiln. No. 1,423,408; July 18.
- Duckham, Arthur M., London, England. Gasification of coal or other carbonaceous material. No. 1,428,421; Sept. 5.
- Duckham, Arthur M., London, England. Furnace for producing chemical changes. No. 1,436,582; Nov. 21.
- Duckham, Arthur M., and A. T. Kent, London, England. Tunnel kiln. No. 1,424,560; Aug. 1.
- Duckworth, Clarence H., assignor to Doehler Die Casting Company, Brooklyn, N. Y. Die-casting apparatus. No. 1,416,455; May 16.
- Duckworth, Clarence H., Lakewood, Ohio, assignor to Doehler Die Casting Company, Brooklyn, N. Y. Groove-forming machine. No. 1,438,754; Dec. 12.
- Duclos, Clarence E., St. Louis, Mo. Magnetic brush for cleaning talking-machine records. No. 1,410,660; Mar. 28.
- Duda, Oswald. (See Steen, B. J., and Duda.)
- Dudas, Andrew. (See Szucs, Stephen, assignor.)
- Dudek, Andrew. (See Szymanski, F., and Dudek.)
- Dudek, Frank, Omaha, Nebr. Ticket holder and dispenser. No. 1,429,277; Sept. 19.
- Dudek, John, Lincoln, Nebr. Jar clamp. No. 1,410,390; Mar. 21.
- Dudek, Piotr. (See Szymanski, F., and Dudek.)
- Dudgeon, Thomas M., Avalon Borough, assignor to The Superior Manufacturing Company, Pittsburgh, Pa. Dental furnace. No. 1,438,023; Dec. 5.
- Dudley, Benjamin B., Visalia, Calif. Folding camp table. No. 1,417,891; May 30.
- Dudley Edward F., Oak Park, assignor to The Miehle Printing Press and Manufacturing Company, Chicago, Ill. Printing press. No. 1,424,757; Aug. 8.
- Dudley, John W., Brooklyn, N. Y. Bottle closure. No. 1,414,867; May 2.
- Dudley, Richard F., Dudley, Wis. Log loader. No. 1,409,368; Mar. 14.
- Dudley, Samuel W., Edgewood, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Brake-valve device. No. 1,414,807; May 2.
- Dudley, William L., assignor to Western Blower Company, Seattle, Wash. Air-washing device. No. 1,416,401; May 16.

- Dudukian, Benjamin N., Syracuse, N. Y. Caliper. No. 1,428,422; Sept. 5.
- Duer, Edward C., Venice, Calif. Pumping apparatus. No. 1,341,105; Oct. 3.
- Duerr, Edgar, Bella Vista, England. Reversible screw propeller. No. 1,431,382; Oct. 10.
- Duesenberger, Frederick S., Elizabeth, N. J. Motor vehicle. No. 1,405,904; Feb. 7.
- Duesler, Walter, assignor to Diana Knitting Company, Johnstown, N. Y. Making buttonholes. No. 1,416,801; May 23.
- Duesler, Walter, assignor to Diana Knitting Company, Johnstown, N. Y. Apparatus for reinforcing buttonholes. No. 1,434,686; Nov. 7.
- Dufay, François, and M. Billon, Paris, France. Means for tight jointing the piston rings of internal-combustion engines. No. 1,414,263; Apr. 25.
- Duff, Cyril, Providence, R. I. Wood-bending device. No. 1,421,186; June 27.
- Duff, Frank C. (See Toll, H. H., and Duff.)
- Duff Manufacturing Company, The. (See Kopf, J. C., and Schwerin, assignors.)
- Duff Manufacturing Company, The. (See Kopf, John C., assignor.)
- Duff Manufacturing Company, The. (See Schwerin, Frank H., assignor.)
- Duff, Michael J., Bridgeport, Conn. Figure toy. No. 1,416,624; May 16.
- Duff, Vern W., Moberly, Mo. Device for holding engineers' time tables. No. 1,423,920; July 25.
- Duffield, Wayne G., assignor to Deere & Company, Moline, Ill. Motor cultivator. No. 1,437,501; Dec. 5.
- Duffy, Charles H., Chevy Chase, Md. Spark plug. No. 1,402,847; Jan. 10.
- Duffy, Charles J., Yonkers, N. Y., assignor to Dentists' Supply Company. Mold guide for artificial teeth. No. 1,423,921; July 25.
- Duffy, James P. B. (See Murphy, Thomas J., assignor.)
- Duffy, Joseph J., Chicago, Ill. Boiler. No. 1,411,327; Apr. 4.
- Duffy Manufacturing Co. (See Donnelly, Bernard P., assignor.)
- Duffy, Thomas I., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Spot lamp and mounting for automobiles. No. 1,404,281; Jan. 24.
- Duffy, Thomas I., assignor to N. Gross, Chicago, Ill. Disk-wheel rim. No. 1,417,506; May 30.
- Dufour, George H., Oak Park, assignor to Marshall Field & Company, Chicago, Ill. Finger guard for printing presses. No. 1,407,132; Feb. 21.
- Dufour, George H., Oak Park, assignor to Marshall Field & Company, Chicago, Ill. Finger guard for printing presses. No. 1,421,424; July 4.
- Dufour, Gustavo. (See Dufour, Lorenzo and G.)
- Dufour, Lorenzo and G., Genoa, Italy. Tanning process. No. 1,429,851; Sept. 19.
- Dufresne, David E., St. Lambert, and W. Adamson, Montreal, Quebec, Canada. Sterilizing apparatus. No. 1,419,031; June 6.
- Dufva, Knut O., deceased, St. Paul, Minn. M. Dufva, executrix. Cementing composition. No. 1,407,194; Feb. 21.
- Dufva, Mathilda, executrix. (See Dufva, Knut O., assignor.)
- Duggan, Thomas, jr., et al. (See Gaglin, David, assignor.)
- Dugger, Thomas O., Bridgeport, Nebr. Detachable handle for cooking utensils. No. 1,406,826; Feb. 14.
- Dughera, Annibale, assignor to P. G. Bellia, Turin, Italy. Free-wheel device. No. 1,429,196; Sept. 12.
- Dugit-Gros, Pierre M. F., called M. Dugit, Lyon, France. Measuring apparatus. No. 1,433,536; Oct. 31.
- Dugit, Maurice. (See Dugit-Gros, Pierre M. F.)
- Duisberg, Walther. (See Willstätter, R., Duisberg, and Callsen.)
- Dukas, James K., Edwardsville, Pa. Fishing net. No. 1,430,221; Sept. 26.
- Duke, Charles M., Murphysboro, Ill. Butchering stand. No. 1,417,234; May 23.
- Duke, George W., Hogansville, Ga. Railway-rail joint. No. 1,404,282; Jan. 24.
- Duke, Robert L., Columbus, Ga. Spinning or winding machine. No. 1,433,347; Oct. 24.
- Duken, Albert J., Chicago, Ill. Vehicle towing crane. No. 1,420,369; June 20.
- Dukes, William, assignor to The Warland Dual Rim Company Limited, Coventry, Warwick, England. Road-vehicle wheel. No. 1,417,152; May 23.
- Duket, Henry T., assignor to The Willys-Overland Company, Toledo, Ohio. Ignition system. No. 1,416,802; May 23.
- Dula, Robert B., New York, N. Y. Building block. No. 1,411,005; Mar. 28.
- Dulaney, H. S. (See Spencer, Charles H., assignor.)
- Dulaney, James A. (See Lamping, G. B., and Du Laney.)
- Dulany, Henry R., Upperville, Va. Level indicator for airplanes. No. 1,410,661; Mar. 28.
- Duley, Harley H., assignor to General Fire Extinguisher Company, New York, N. Y. Sprinkler system. No. 1,402,152; Jan. 3.
- Duley, Harley H., Detroit, Mich., assignor to General Fire Extinguisher Company, New York, N. Y. Automatic sprinkler. No. 1,412,172; Apr. 11.
- Dull, Curtis E., Ohio City, Ohio. Headlight. No. 1,419,449; June 13.
- Dull, Raymond W., La Grange, Ill. Pan conveyer link belt construction. No. 1,411,993; Apr. 4.
- Dull, Raymond W., La Grange, Ill. Link belt. No. 1,411,994; Apr. 4.
- Dull, Raymond W., Chicago, Ill. Link belt. No. 1,411,995; Apr. 4.
- Dull, Raymond W., La Grange, Ill., assignor to Link Belt Company, Chicago, Ill. Link for chain belts. No. 1,403,674; Jan. 17.
- Dultmeier, Frank J., Omaha, Nebr. Adjustable tongue hound. No. 1,404,590; Jan. 24.
- Dultmeier, Frank J., Manning, Iowa. Adjustable repair tongue hound. No. 1,422,681; July 11.
- Dulz, Herman, assignor of one-fourth to D. Havhanasean, Detroit, Mich. Locking device for car doors. No. 1,439,357; Dec. 19.
- Dumanois, Emile P., Levallois-Perret, France. Starting apparatus for internal-combustion engines. No. 1,425,950; Aug. 15.
- Dumas, Allie W., assignor of one-half to J. Schober, Fort Worth, Tex. Belt gun rest. No. 1,406,827; Feb. 14.
- Dumas, George. (See Murphy, S. R., and Dumas.)
- Dumble, Clifford R., Arlington, assignor, by mesne assignments, to The Lamson Company, Boston, Mass. Removable label for carriers. No. 1,428,279; Sept. 5.
- Dumbolton, Perry S. (See Bounds, R. E., and Dumbolton.)
- Dumelin, Charles, Lakewood, Ohio. Vehicle top. No. 1,437,499; Dec. 5.
- Dumont, Joseph R. (See Smith, Mark N., assignor.)
- Dunajeff, Leonid A., New York, N. Y. Power boat. No. 1,412,848; Apr. 18.
- Dunbar, Charles J., Kalamazoo, Mich. Binder. No. 1,405,303; Jan. 31.
- Dunbar, Harris T., Buffalo, N. Y. Dumping scow. No. 1,403,017; Jan. 10.
- Dunbar, Harris T., Buffalo, N. Y. Self-bailing scow. No. 1,424,452; Aug. 1.
- Dunbar, Harry S., Cleveland, Ohio. Sash fastener. No. 1,419,128; June 13.
- Dunbar, Howard W. (See Turner, A., and Dunbar.)
- Dunbar, Howard W., and A. Turner, assignors to Norton Company, Worcester, Mass. Electrically-driven grinding machine. No. 1,429,025; Sept. 12.
- Dunbar, Milo H., Canton, Ohio. Die-forming machine. No. 1,437,407; Dec. 5.
- Duncan, Arthur L., and C. E. Forry, Oakland, Calif., assignors to Seattle-Astoria Iron Works, Seattle, Wash. Can-end feed. No. 1,438,024; Dec. 5.
- Duncan, Arthur L., and C. E. Forry, Oakland, Calif. Can solder horn. No. 1,438,025; Dec. 5.
- Duncan, Charles, Philadelphia, Pa. Circulation for electrodeposit systems. No. 1,411,657; Apr. 4.
- Duncan, Charles A., and A. Nelson, Wallace, Idaho. Ball mill. No. 1,412,390; Apr. 11.
- Duncan Electric Manufacturing Company. (See Harris, Jesse, assignor.)
- Duncan, Frank M., Chicago, Ill. Pressure-controlling means. No. 1,408,696; Mar. 7.
- Duncan, Harry L., Mahwah, N. J. Fabric. No. 1,410,899; Mar. 28.
- Duncan, Harry M., Los Angeles, Calif. Reproducer for phonographs. No. 1,411,566; Apr. 4.
- Duncan, Herbert G., assignor to Petters Limited, Yeovil, England. Carburetor. No. 1,413,107; Apr. 18.
- Duncan, J. Company. (See Judd, Charles T., assignor.)
- Duncan, John N., Boone, Iowa. Window latch. No. 1,411,006; Mar. 28.
- Duncan, John N., Boone, Iowa. Post step or bracket. No. 1,420,825; June 27.
- Duncan, Thomas, East Chicago, Ind. Cigarette holder. No. 1,422,347; July 11.
- Duncan, Wayne A., Chicago, Ill. Steam cooker. No. 1,421,425; July 4.
- Duncan, Wayne A., Chicago, Ill. Electric steam-pressure cooker. No. 1,422,348; July 11.
- Duncan, William M., Alton, Ill. Destructive distillation. No. 1,407,017; Feb. 21.
- Duncan, William M., Alton, Ill. Apparatus for distilling substances. No. 1,407,018; Feb. 21.
- Duncan, William R., assignor to W. H. Wade, Chicago, Ill. Device for marking phonograph records. No. 1,439,358; Dec. 19.
- Duncanson, George, jr., Jersey City, N. J. Printer's quoin. No. 1,440,345; Dec. 26.
- Dunfee, Carlton H., and A. L. Spence, Wrightstown, N. J.; said Dunfee, assignor to said Spence. Gasoline-tank filler and indicator. No. 1,431,573; Oct. 10.
- Dungan, John E., Canton, Ohio, assignor of seven-sixteenths to W. S. Bryson, one-sixteenth to B. F. Bone, one-sixteenth to F. M. Howard, one-sixteenth to J. A. Schaub, one-sixteenth to A. C. Scroggins, Jr., one-sixteenth to H. J. Zink, and one-sixteenth to E. C. Koontz, Moundsville, W. Va. Shipping and filling receptacles. No. 1,411,271; Apr. 4.
- Dunham, Andrew A., Bainbridge, N. Y., assignor to The Casein Manufacturing Company. Producing a composition of casein and hydroxide. No. 1,412,462; Apr. 11.
- Dunham, Arthur L. (See Lewis, T. A., and Dunham.)
- Dunham, Charles L., Yennsboro, W. Va. Nut lock. No. 1,409,934; Mar. 21.
- Dunham Company, The. (See Griswold, R. H., and Powell, assignors.)
- Dunham Company, The. (See Guy, Hiram D., assignor.)

Alphabetical list of patentees—Continued.

- Dunham Company, The. (See Wagner, Joseph F., assignor.)
- Dunham, Frank A., Owatonna, Minn. Folding curtain for automobiles. No. 1,426,969; Aug. 22.
- Dunham, Fred, Commerce, Okla. Sludge-table block. No. 1,419,830; June 13.
- Dunham, George W., Detroit, Mich., assignor to Graham Brothers, Evansville, Ind. Unit construction for tractors. No. 1,417,720; May 30.
- Dunham, George W., New York, N. Y., assignor to Graham Brothers, Evansville, Ind. Tractor gearing. No. 1,419,240; June 13.
- Dunham, Joseph C., Oklahoma, Okla. Weather strip. No. 1,416,698; May 23.
- Dunham, Henry V., Mount Vernon, N. Y., assignor to Dry Oil Products Limited, London, England. Casein-oil composition and making same. No. 1,431,937; Oct. 17.
- Dunham, Henry V., Mount Vernon, N. Y., assignor to Dry Oil Products Company, London, England. Pulverulent shortening agent and making same. No. 1,431,938; Oct. 17.
- Dunham, Henry V., Mount Vernon, N. Y., assignor to Dry Oil Products Ltd., London, England. Dry shortening agent and making same. No. 1,432,057; Oct. 17.
- Dunhill, Alfred, London, England. Game apparatus. No. 1,431,879; Oct. 10.
- Dunkel, Otto, Los Angeles, Calif. Photographic-print washer. No. 1,404,351; Jan. 24.
- Dunkelberger, Milton S., Dayton, Ohio. Distant electrical control means. No. 1,437,637; Dec. 5.
- Dunker, Charles H., et al., administrators. (See Shuman, Frank.)
- Dunkerton, Richard D. (See Johannes, E. E., and Dunkerton.)
- Dunkley Company. (See Dunkley, Samuel J., assignor.)
- Dunkley Company. (See Thomas, Fernand, assignor.)
- Dunkley, Samuel J., Oakland, Calif. Lye regulator for peach-peeling machines. No. 1,439,618; Dec. 19.
- Dunkley, Samuel J., assignor to Dunkley Company, Kalamazoo, Mich. Lyeing section of peeling machines. No. 1,427,269; Aug. 29.
- Dunkley, Samuel J., assignor to Dunkley Company, Kalamazoo, Mich. Peeling apparatus and process. No. 1,427,270; Aug. 29.
- Dunkley, Samuel J., Oakland, Calif., assignor to Dunkley Company, Kalamazoo, Mich. Means for regulating and controlling the strength of lye solution. No. 1,429,129; Sept. 12.
- Dunkley, William H., Birmingham, England. Undercarriage for vehicles. No. 1,424,345; Aug. 1.
- Dunkum, William A., Newport News, Va. Gauge. No. 1,432,979; Oct. 24.
- Dun Lany, William P., assignor to Sears, Roebuck and Co., Chicago, Ill. Inserting, folding, and wrapping machine. No. 1,407,646; Feb. 21.
- Dun Lany, William P., assignor to Sears, Roebuck and Co., Chicago, Ill. Doll. No. 1,417,810; May 30.
- Dunlap, Alfonso H., Chattanooga, Tenn. Steering-wheel lock. No. 1,438,102; Dec. 5.
- Dunlap, David E., assignor of three-fourths to A. J. Elias, Buffalo, N. Y. Wing construction for airplanes. No. 1,424,996; Aug. 8.
- Dunlap, Emerson C., Miami, Ind. Steering device for tractors. No. 1,426,556; Aug. 22.
- Dunlap, Forrest B., assignor of one-half to H. L. Sullivan, Tulsa, Okla. Pull-rod bearing. No. 1,420,025; June 20.
- Dunlap, Joseph H., and K. B. Kilborn, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Stream-line shield. No. 1,406,945; Feb. 14.
- Dunlap, Olin F., New London, Ohio. Drinking fountain. No. 1,437,729; Dec. 5.
- Dunlap, Sylvester B. (See Bodine, M. R., and Dunlap.)
- Dunlop Rubber Company, The. (See Twiss, Douglas F., assignor.)
- Dunlop Rubber Company Limited, The. (See Macbeth, Colin, assignor.)
- Dunlop Rubber Company Limited, The. (See Paull, Wallace H., assignor.)
- Dunlop Rubber Company, Limited, The. (See Worthington, John V., assignor.)
- Dunlop Tire and Rubber Goods Company. (See Burns, Thomas A., assignor.)
- Dunmire, Charles W., and S. C. Enck, Philadelphia, Pa. Washing machine. No. 1,422,940; July 18.
- Dunmore, Francis W., Washington, D. C. Radio receiving apparatus. No. 1,405,905; Feb. 7.
- Dunmore, George A. (See Jørgensen, C., and Dunmore.)
- Dunn Auto Products Company. (See Dunn, Henry F., assignor.)
- Dunn, Bird W., and K. Moodie, Calgary, Alberta, Canada. Gas mixer. No. 1,430,503; Oct. 3.
- Dunn, Florence H., Kansas City, Mo. Dishwasher. No. 1,429,069; Sept. 12.
- Dunn, Francis H., Montreal, Quebec, Canada. Holder for vehicle licenses. No. 1,403,302; Jan. 10.
- Dunn, Frederick W., Chicago, Ill. Molding machine. No. 1,412,046; Apr. 11.
- Dunn, George H., Oak Park, Ill., assignor to American Can Company, New York, N. Y. Dispenser for paper towels. No. 1,413,656; Apr. 25.
- Dunn, George W., Newport, Ky. Burial case. No. 1,431,722; Oct. 10.
- Dunn, Harry. (See Flick, H., Voelker, and Dunn.)
- Dunn, Henry F., assignor to Dunn Auto Products Company, Indianapolis, Ind. Reflector-renewal insert. No. 1,424,561; Aug. 1.
- Dunn, Joseph F., New York, N. Y. (Reissue.) No. 15,348; May 9.
- Dunn, Martin W. (See Balder, Anton W., assignor.)
- Dunn, Patrick J., Holland, Ohio. Insulated railway tie and rail fastening means therefor. No. 1,407,195; Feb. 21.
- Dunn, Robert. (See Sprock, S. J., and Dunn.)
- Dunn, William, Bannack, Mont. Animal trap. No. 1,422,424; July 11.
- Dunn, William, Bannack, Mont. Track brace. No. 1,422,425; July 11.
- Dunn, William G., Clarinda, Iowa. Gear-shifting mechanism for motor vehicles. No. 1,434,993; Nov. 7.
- Dunn, William J., Montreal, Quebec, Canada. Internal-combustion motor. No. 1,407,393; Feb. 21.
- Dunne, Everett K., Oneonta, N. Y. Field glass. No. 1,428,478; Sept. 5.
- Dunnigan, John J., Rochester, N. Y. Washing machine. No. 1,435,823; Nov. 14.
- Dunning, Carroll H. (See Kelley, W. V. D., and Dunning.)
- Dunning, Parker, Bloomfield, N. J., assignor to General Electric Company. Starting compensator. No. 1,421,923; July 4.
- Dunning, Wilbur G. (See Murphy, W. B., and Dunning.)
- Dunning, William. (See Fromm, Edward F., assignor.)
- Dunning, William F., Washington, D. C. Loose-leaf binder or file. No. 1,421,677; July 4.
- Dunson, William, Indianapolis, Ind. Adjustable shade and blind holder. No. 1,405,400; Feb. 7.
- Dunstan, Albert E., Sunbury, England. Refining liquid hydrocarbons. No. 1,435,824; Nov. 14.
- Dunston, Wayne E., assignor to C. Girl, Kalamazoo, Mich. Automobile bumper. No. 1,432,165; Oct. 17.
- Duntley, John W., Chicago, Ill. Hydropneumatic gas generator. No. 1,424,160; Aug. 1.
- Duntley, Lloyd B. (See Overlock R. F., and Duntley.)
- Dunwell, Stephen H., Plainwell, Mich. Treating waxed paper stock. No. 1,410,739; Mar. 28.
- Dunwoody, Henry H. C., Washington, D. C. Destroying the boll weevil. No. 1,431,880; Oct. 10.
- Dunwoody, Henry H. C., Washington, D. C. Electric heater. No. 1,436,867; Nov. 28.
- Dunsworth, George W., Houston, Tex. Drill. No. 1,439,875; Dec. 26.
- Duó, Celio, Buenos Aires, Argentina. Apparatus for heating or vaporizing fluids. No. 1,403,594; Jan. 17.
- Dupell, Frank G., assignor to F. G. Agresta, Brooklyn, N. Y. Toy. No. 1,411,962; Apr. 4.
- Dupler, George G., Monday, Ohio. Reinforcement for pick handles. No. 1,426,366; Aug. 22.
- Duplex Envelope Company. (See Jones, A. G., and Nielson, assignors.)
- Duplex Holding Company. (See Meyer, A., and Walsh, assignors.)
- Duplex Transmission-Band Inc. (See Hons, Henry F., Jr., assignor.) (Reissue.)
- Duplexlite Corporation. (See Mathieu, Frederick W., assignor.)
- Du Pont, E. I., de Nemours, & Company. (See Abraham, Clinton D., assignor.)
- Du Pont, E. I., de Nemours and Company. (See Andreau, Roland L., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Arnold, Charles E., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Bartleson, Thomas L., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Booge, James E., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Bryan, Leon O., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Calvert, Robert P., assignor.)
- Du Pont, E. I., de Nemours and Company. (See Collins, Benjamin W., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Donaldson, Alfred S., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Gibbs, Harry D., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Gray, Joseph P., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Grob, A. R., and Adams, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Horton, George D., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Kessler, Johannes M., assignor.)
- Du Pont, E. I., de Nemours & Company. (See La Motte, Arthur, assignor.)
- Du Pont, E. I., de Nemours and Company. (See Mathes, Kirke B., assignor.)
- Du Pont, E. I., de Nemours & Company. (See McAllister, Daniel E., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Rocker, George, assignor.)
- Du Pont, E. I., de Nemours & Company. (See Rogers, Homer, assignor.)
- Du Pont, E. I., de Nemours & Company. (See Scott, Earl B., assignor.)

- Du Pont, E. I., de Nemours & Company. (See Sease, Virgil B., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Singer, Nathan, assignor.)
- Du Pont, E. I., de Nemours & Company. (See Swint, Wendell R., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Tanberg, Arthur P., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Terhune, Leonard B., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Underwood, K. C., and Kessler, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Woodbridge, Richard G., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Woodbury, Clifford A., assignor.)
- Du Pont, Eleuthere P., Montchanin, Del. Fuel-feeding system for internal-combustion engines. No. 1,402,749; Jan. 10.
- Du Pont, Eleuthere P., Montchanin, Del. Internal-combustion engine. No. 1,408,179; Feb. 28.
- Du Pont, Francis I., assignor to Delaware Chemical Engineering Co., Wilmington, Del. Liquid-fuel burner. No. 1,427,449; Aug. 29.
- Dupra, John, Guenette, Quebec, Canada. Animal trap. No. 1,436,486; Nov. 21.
- Dupré, Wilfred, Worcester, Mass. Wringer mop. No. 1,421,071; June 27.
- Dupre, William V. (See Deutsch, A. M., and Dupre.)
- Du Priest, John R., Baltimore, Md. Connecting rod. No. 1,417,307; May 23.
- Dupuis, Louis. (See Glennon, J. R., and Dupuis.)
- Duquenne, Camille, Paris, France. Boiler. No. 1,411,880; Apr. 4.
- Duquette, Charles J., Schenectady, N. Y. Guard for the handles of coffee percolators and the like. No. 1,405,983; Feb. 7.
- Dura Company, The. (See Lawrence, J. D., and Nicholson, assignors.)
- Dura Company, The. (See Nicholson, Stanley W., assignor.)
- Dura Mechanical Hardware Company. (See Nicholson, Stanley W., assignor.)
- Duran, Arturo, San Antonio, Tex. Safety apparatus. No. 1,406,625; Feb. 14.
- Durán, Arturo, San Antonio, Tex., assignor of one-half to J. M. Dwyer, Denver, Colo. Semaphore. No. 1,434,050; Oct. 31.
- Durand Steel Locker Company. (See Vance, Walter N., assignor.)
- Durand & Huguénin S. A. (See Alioth, M., and Bodmer, assignors.)
- Durant, William B., Cambridge, Mass. Cover-clinching device for cans. No. 1,434,687; Nov. 7.
- Durant, William B., Cambridge, assignor to William Underwood Company, Boston, Mass. Can-cleaning machine. No. 1,435,220; Nov. 14.
- Durany, Andrew, New Britain, Conn. Onion-plant machine. No. 1,407,133; Feb. 21.
- Duratex Company, The. (See Wilson, John A., assignor.)
- Durbin, Frederick A., assignor of one-half to J. F. Maday, Evansville, Ind. Permutation padlock. No. 1,423,840; July 25.
- Durborow, Harry J., Philadelphia, Pa. Sound box. No. 1,426,970; Aug. 22.
- Durborow, Harry J., Philadelphia, Pa. Stylus-bar mounting for sound boxes. No. 1,436,796; Nov. 28.
- Durborow, Harry J., and B. L. Winders, Philadelphia, Pa. Sound-transmitting means. No. 1,418,909; June 6.
- Duren, Charles A., assignor of one-half to H. P. Roberts, Boston, Mass. Ice-cream freezer. No. 1,438,523; Dec. 12.
- Durgin, Edgar R., assignor to New Jersey Optical Co., Newark, N. J. Rim for ophthalmic lenses. No. 1,409,534; Mar. 14.
- Durham, Clayton E., and A. J. Rohr, Terre Haute, Ind. Combination window-shade and curtain-holding device. No. 1,414,982; May 2.
- Durham Duplex Razor Company. (See Sheehan, Thomas C., assignor.)
- Durham, William M., Portland, Oreg. Truss. No. 1,412,391; Apr. 11.
- During, Paul, Detroit, Mich. Fruit-juice extractor. No. 1,432,166; Oct. 17.
- Duriron Company, The. (See Jacobsen, Oystein, assignor.)
- Duriron Company, The. (See Schenck, Pierce D., assignor.)
- Durkee-Atwood Company. (See Murray, Lee, assignor.)
- Durkee, Dwight M., Rockford, assignor to Free Sewing Machine Company, Chicago, Ill. Controller for electrically-driven sewing machines. No. 1,419,723; June 13.
- Durkee, Eugene W., New York, and C. Alexanderson, Brooklyn, N. Y.; said Alexanderson assignor to said Durkee. Labeling machine. No. 1,405,190; Jan. 31.
- Durkee, Fred M. (See Benson, Eloi, assignor.)
- Durney, Eugene B., and C. V. Reister, Silverbell, Ariz. Signal device for auto tires. No. 1,411,714; Apr. 4.
- Duro Pump and Manufacturing Company, The. (See Larsh, Everett P., assignor.)
- Durot, Albert. (See Norton, D. G., and Durot.)
- Durot, Albert, assignor to Sir James Farmer & Sons Limited, Salford, Manchester, England. Cloth plaiting or piling machine. No. 1,408,083; Feb. 28.
- Dürr, Ludwig, assignor to the firm: Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Eyelet. No. 1,410,900; Mar. 28.
- Dürr, Ludwig, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Airship envelope. No. 1,411,881; Apr. 4.
- Dürr, Ludwig, assignor to Firm: Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Silencer of internal-combustion engines. No. 1,439,506; Dec. 19.
- Durst, Harold L., Spokane, Wash. Film clip. No. 1,408,448; Mar. 7.
- Dusek, James L., Cleveland, Ohio. Protective coating for medicinal purposes. No. 1,430,632; Oct. 3.
- Dusha, Paul F., New York, and A. Feyk, Bohemia, N. Y. Combined drill and reamer for pearl buttons. No. 1,411,207; Mar. 28.
- Dusinberre, George B., Cleveland, Ohio. Clip. No. 1,402,153; Jan. 3.
- Dusinberre, George B., Elmira, N. Y., assignor to Glenora Harmonica Company, Inc. Jew's-harp. No. 1,434,736; Nov. 7.
- Duste, George H., assignor of one-half to R. W. Weatherbe, San Francisco, Calif. Calculating device. No. 1,437,500; Dec. 5.
- Dustin, Harold M. (See Frankel, H. I., and Dustin.)
- Dutcher, Bernard R., assignor to Graham-Chisholm Company, New York, N. Y. Loose-leaf binder. No. 1,403,303; Jan. 10.
- Dutcher, Bernard R., assignor to Graham-Chisholm Company, New York, N. Y. Loose-leaf stand for ledgers. No. 1,403,393; Jan. 10.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal torpedo. No. 1,402,583; Jan. 3.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway-signal torpedo. No. 1,403,490; Jan. 17.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal torpedo. No. 1,404,514; Jan. 24.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal torpedo. No. 1,414,264; Apr. 25.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal torpedo. No. 1,415,813; May 9.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Explosive tablet for railway signal torpedoes. No. 1,421,187; June 27.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal torpedo. No. 1,421,188; June 27.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Time burning railway signal fusee. No. 1,430,959; Oct. 3.
- Dutcher, Howard K., Vancouver, British Columbia, Canada. Flume. No. 1,413,528; Apr. 18.
- Dutcher, Pierpont E., Upper Montclair, N. J. Mast, stack, or the like. No. 1,408,868; Mar. 7.
- Dutchess Tool Company. (See Van Houten, Frank H., assignor.)
- Duten, Maurice, Levallois-Perret, assignor to la Societe Dutén, Doublet & Cie., Paris, Seine, France. Contact breaker for magnetos. No. 1,432,679; Oct. 17.
- Duthie, John, sr., Seattle, Wash. Ship-hull construction. No. 1,425,243; Aug. 8.
- Dutkiewicz, Valentin, Paris, and C. Isambert, Ablis, France. Motor plow. No. 1,407,394; Feb. 21.
- Dutkiewicz, Valentin, Paris, and C. Isambert, Ablis, France. Endless track. No. 1,420,531; June 20.
- Dutoit, Paul, assignor of one-third to A. Boever, Lausanne, Switzerland. Manufacture of brass. No. 1,423,922; July 25.
- Dutro, Leslie C., Long Beach, Calif. Oil cup. No. 1,408,180; Feb. 28.
- Dutro, Leslie C., Long Beach, Calif. Oil cup. No. 1,408,181; Feb. 28.
- Dutro, Orville V., and A. S. Burroughs, Spokane, Wash. Web-feeding mechanism. No. 1,402,848; Jan. 10.
- Dutton, Alfred E., Cleveland, Ohio. Heating device. No. 1,429,130; Sept. 12.
- Dutton, Frank H., Johannesburg, Transvaal, South Africa, assignor to Roadrails Limited, London, England. Locomotive for light railways. No. 1,416,625; May 16.
- Dutton, George, Uno, Manitoba, Canada. Oil can. No. 1,412,173; Apr. 11.
- Dutton, Stephen A., Philadelphia, Pa. Steering mechanism. No. 1,432,237; Oct. 17.
- Duval, Azade. (See Martin, Evariste, assignor.)
- Duval d'Adrian, Alexander L., Washington, Pa. Composition for opal glass. No. 1,419,032; June 6.
- Duval d'Adrian, Alexander L., Washington, Pa. Making green chrome oxide. No. 1,429,912; Sept. 19.
- Duval, John W., Pittsburgh, Pa. Advertising machine. No. 1,420,627; June 27.
- Duvall, George W., and N. H. Beebe, assignors to Modern Broom Machinery Company, Davenport, Iowa. Broom trimmer. No. 1,418,138; May 30.
- Duvarney, William H., Derry, N. H. Package tie. No. 1,414,868; May 2.

Alphabetical list of patentees—Continued.

- Duwe, Friedrich, Mainz, assignor to Maschinenfabrik Augsburg-Nuernberg A.-G., Nuernberg, Bavaria, Germany. Hauling-up plant for ships. No. 1,433,706; Oct. 31.
- Dvorak, Anton, Berwyn, Ill., assignor to Beardslee Chandler Manufacturing Company. Lighting fixture. No. 1,419,920; June 20.
- Dvorak, Anton, Berwyn, Ill., assignor to Beardslee Chandler Manufacturing Company. Lighting fixture. No. 1,437,502; Dec. 5.
- Dvorak, Wenzel, Fernie, British Columbia, Canada. Pipe wrench. No. 1,422,548; July 11.
- Dwelly, Edwin S., East Orange, N. J., assignor to American Piano Company, New York, N. Y. Music-roll seal. No. 1,426,161; Aug. 15.
- Dwight, Arthur S., assignor to Dwight & Lloyd Metallurgical Company, New York, N. Y. Treating ores to sinter them. No. 1,433,348; Oct. 24.
- Dwight, Arthur S., assignor to Dwight & Lloyd Metallurgical Company, New York, N. Y. Apparatus for treating ores to sinter them. No. 1,433,349; Oct. 24.
- Dwight, Arthur S., assignor to Dwight & Lloyd Metallurgical Company, New York, N. Y. Apparatus for sintering or agglomerating metalliferous substances. No. 1,433,350; Oct. 24.
- Dwight, Arthur S., assignor to Dwight & Lloyd Metallurgical Company, New York, N. Y. Treating ores to sinter them. No. 1,433,351; Oct. 24.
- Dwight, Arthur S., assignor to Dwight & Lloyd Metallurgical Company, New York, N. Y. Apparatus for treating ores to sinter them. No. 1,433,352; Oct. 24.
- Dwight, Arthur S., assignor to Dwight & Lloyd Metallurgical Company, New York, N. Y. Treating ores to sinter them. No. 1,433,353; Oct. 24.
- Dwight, Arthur S., New York, N. Y., assignor to Dwight & Lloyd Metallurgical Company, Jersey City, N. J. Apparatus for roasting and sintering ores. No. 1,433,354; Oct. 24.
- Dwight, Arthur S., assignor to Dwight & Lloyd Metallurgical Company, New York, N. Y. Apparatus for treating ores to sinter them. No. 1,433,355; Oct. 24.
- Dwight, Russell, Wyoming, Ohio. Forming imitation leather upholstery and the product produced thereby. No. 1,426,720; Aug. 22.
- Dwight & Lloyd Metallurgical Company. (See Dwight, Arthur S., assignor.)
- Dwyer, Charles M., Los Angeles, Calif. Vehicle window frame. No. 1,414,399; May 2.
- Dwyer, James M. (See Durán, Arturo, assignor.)
- Dwyer, Patrick J. (See Hurst, W. C. and Dwyer.)
- Dwyer, Patrick J., New York, N. Y. Safety-razor-stropping device. No. 1,425,081; Aug. 8.
- Dwyer, William O., Pittsfield, Mass., assignor to General Electric Company. Stationary induction apparatus. No. 1,412,782; Apr. 11.
- Dwyer, William O., Pittsfield, Mass., assignor to General Electric Company. Casing for electrical apparatus. No. 1,425,843; Aug. 15.
- Dyar, Ralph M., Grosse Pointe Farms, Mich. Fire stop. No. 1,428,881; Sept. 12.
- Dyar, Ralph M., Grosse Pointe Farms, Mich. Fire stop. No. 1,433,606; Oct. 31.
- Dy Arman, George W., New York, N. Y. Reinforced road construction. No. 1,435,702; Nov. 14.
- Dyblie, John H., Joliet, Ill. Dental soldering stand. No. 1,435,456; Nov. 14.
- Dye, Carter M., Christopher, Ill. Cream separator. No. 1,428,364; Sept. 5.
- Dye, Glen M., assignor to Photographic Appliances Corporation, Minneapolis, Minn. Photographic printing and numbering machine. No. 1,415,230; May 9.
- Dye, Glen M., assignor to Pako Corporation, Minneapolis, Minn. Photographic-print-washing machine. No. 1,416,402; May 16.
- Dyer, Edgar M., Chicago, Ill. Ventilator and the like. No. 1,428,882; Sept. 12.
- Dyer, Frank L., Montclair, N. J. Collapsible-tube package. No. 1,413,108; Apr. 18.
- Dyer, George H., San Francisco, Calif. Tractor and like drawbar. No. 1,405,906; Feb. 7.
- Dyer, Harry W., East Orange, N. J. Liquid-cooling apparatus. No. 1,415,231; May 9.
- Dyer, Harry W., East Orange, N. J., assignor to R. T. Newton, New York, N. Y. Automobile fender. No. 1,406,828; Feb. 14.
- Dyer, Harry W., East Orange, assignor of one-half to M. H. Loughridge, Bogota, N. J. Automobile bumper. No. 1,412,047; Apr. 11.
- Dyer, Ivan, Indianapolis, Ind. Vehicle signal device. No. 1,415,814; May 9.
- Dyer, John L., Balboa, and H. T. Macneil, Ancon, Canal Zone, Panama. Tool. No. 1,429,852; Sept. 19.
- Dyer, Warren C., St. Louis, Mo. Bathing appliance. No. 1,437,296; Nov. 28.
- Dyess, William N., et al. (See Bodie, Albert B., assignor.)
- Dyett, James H., Brooklyn, N. Y. Baggage carrier. No. 1,429,197; Sept. 12.
- Dygodra, Wasily, Gary, Ind. Breast wheel. No. 1,411,686; Apr. 4.
- Dykas, Michael, Chicago, Ill. Aeroplane toy. No. 1,403,595; Jan. 17.
- Dyke, Darrell F., assignor to The Seng Company, Chicago, Ill. Bed-rail fastening. No. 1,424,284; Aug. 1.
- Dyke, Darrell F., assignor to The Seng Company, Chicago, Ill. Sofa bed. No. 1,424,285; Aug. 1.
- Dyke, Samuel, Houston, Tex. Excavating bucket. No. 1,437,963; Dec. 5.
- Dykman, Henry J., Johannesburg, Transvaal, South Africa. Stoving paint for vehicles. No. 1,428,152; Sept. 5.
- Dykman, Howard, East Orange, N. J. Toy and covering therefor. No. 1,437,467; Dec. 5.
- Dylnicki, Filik, Worthington, W. Va. Portable power saw. No. 1,414,265; Apr. 25.
- Dynnicks, Joseph, New London, Conn. Mechanical toy. No. 1,427,789; Sept. 5.
- Dyneto Electric Company. (See Doman, Albert E., assignor.)
- Dyrssen, Waldemar, New York, N. Y. Tilting furnace. No. 1,416,699; May 23.
- Dziedzic, Joseph E., Detroit, Mich. Motor-driven cradle. No. 1,439,619; Dec. 19.
- Eadie, John M., New York, N. Y. Trailer. No. 1,432,980; Oct. 24.
- Eadie, John M., New York, N. Y. Vehicle brake. No. 1,432,981; Oct. 24.
- Eagan, Patrick J., San Francisco, Calif. Baggage check. No. 1,420,991; June 27.
- Eagan, Walter B., Chicago, Ill. Brush clamp. No. 1,428,281; Sept. 5.
- Eagan and Smith Manufacturing Company. (See Smith, George H., assignor.)
- Eagle Carburetor Company, The. (See Flannery, J. M., and Dettelbach, assignors.)
- Eagle, Edward E., Selma, Ala. Apparatus for storing, measuring, and cutting linoleum. No. 1,411,771; Apr. 4.
- Eagle, Henry Y., Brooklyn, N. Y. Electrolytic apparatus. No. 1,431,574; Oct. 10.
- Eagle Iron Works. (See Powell, Joseph M., assignor.)
- Eagle Pencil Company. (See Fischer, John H., assignor.)
- Eagle Pencil Company. (See Michael, Alfred, assignor.)
- Eaglesfield, Robert D., assignor to A. Vonnegut, Indianapolis, Ind. Molding machine. No. 1,407,520; Feb. 21.
- Ealy, Clarence W., Black Lick, Ohio. Door. No. 1,415,815; May 9.
- Eames, George M., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Clutch and stop mechanism. No. 1,409,837; Mar. 14.
- Eames, George M., Bridgeport, and G. W. Jacques, Stratford, Conn., assignors to The Singer Manufacturing Company. Machine for setting fasteners in sheet material. No. 1,434,688; Nov. 7.
- Earl, Arthur T., Los Angeles, and W. B. Hunkins, Hollywood, Calif. Adjustable door bumper. No. 1,409,137; Mar. 7.
- Earl, Arthur A., Toronto, Ontario, Canada. Float valve. No. 1,432,982; Oct. 24.
- Earl, Arthur T., Los Angeles, and W. B. Hunkins, Hollywood, Calif. Replaceable striker-plate tip. No. 1,434,330; Oct. 31.
- Earl, George G., New Orleans, La., assignor of one-third to C. A. Brown, Lorain, Ohio, and one-third to A. B. Wood, New Orleans, La. Fluid system. No. 1,407,993; Feb. 28.
- Earl, George G., New Orleans, La., assignor of one-third to C. A. Brown, Lorain, Ohio, and one-third to A. B. Wood, New Orleans, La. Fluid system. No. 1,430,731; Oct. 3.
- Earl, Harry, Milwaukee, Wis. Airplane. No. 1,432,445; Oct. 17.
- Earle, Ethan H., Pomona, assignor of one-half to G. R. E. Milligan, Los Angeles, Calif. Aeroplane. No. 1,419,363; June 13.
- Earle, Horatio S., Detroit, Mich. Screen for sand and gravel. No. 1,418,545; June 6.
- Earle, Robert W., Chicago, Ill., assignor to The Dover Manufacturing Company, Dover, Ohio. Electrical insulating and heat-conducting material. No. 1,402,750; Jan. 10.
- Earley, James J., Brooklyn, N. Y. Toy. No. 1,427,790; Sept. 5.
- Earley, John J., Washington, D. C. Mold. No. 1,412,392; Apr. 11.
- Early, Doctor Kent, Salem, Va. Rail-fastening device. No. 1,413,462; Apr. 18.
- Earnshaw, Arthur R., Riverton, N. J. Joint and forming the same. No. 1,412,556; Apr. 11.
- Easiest Way Manufacturing Company, The. (See Emme, Henry F., assignor.)
- Easley, Thomas L., assignor of one-half to W. Nagel, San Antonio, Tex. Changeable exhibitor. No. 1,405,767; Feb. 7.
- Eason, Clarence M. (See Funk, T. B., and Eason.)
- Eason, Clarence M., Moline, Ill., assignor to Hyatt Bearings Division, General Motors Corporation, Newark, N. J. Dynamometer recording instrument. No. 1,417,461; May 23.
- Eason, Clarence M., Moline, Ill., assignor to Hyatt Bearings Division, General Motors Corporation, Newark, N. J. Dynamometer. No. 1,417,462; May 23.
- Eason, Clarence M., Moline, Ill., assignor to Hyatt Bearings Division, General Motors Corporation, Newark, N. J. Dynamometer. No. 1,424,888; Aug. 8.
- Eason, Henry R., London, England. Photographic-printing apparatus. No. 1,429,723; Sept. 19.
- East Coast Preserving Company. (See Pappy, Robert L., assignor.)

Alphabetical list of patentees—Continued.

- Eastburn, Thomas B., assignor to The Cutter Electrical and Manufacturing Company, Philadelphia, Pa. Circuit-breaker tripping structure. No. 1,426,467; Aug. 22.
- Eastern Malleable Iron Company, The. (See Haugh, T. M., Schilling, and Finch, assignors.)
- Eastern Manufacturing Company. (See Hanson, H. H., and Hodgdon, assignors.)
- Eastern Pin Ticket and Tag Co. (See Kramer, Samuel R., assignor.)
- Eastern Potash Corporation. (See Meadows, T. C., and Rubm, assignors.)
- Eastern Tool & Manufacturing Company. (See Anderson, Carl E., assignor.)
- Eastly, Henry D., Ravenswood, W. Va. Flying machine. No. 1,406,545; Feb. 14.
- Eastman, Ernest A., Portsmouth, Ohio. Shoe last. No. 1,418,546; June 6.
- Eastman, Franklin P., New York, N. Y. Side-dumping boat. No. 1,439,661; Dec. 19.
- Eastman, James H., Detroit, Mich. Electrotherapeutic apparatus. No. 1,435,055; Nov. 7.
- Eastman, Joseph P., assignor to Eastman Manufacturing Company, Manitowoc, Wis. Hose coupling. No. 1,428,949; Sept. 12.
- Eastman Kodak Company. (See Bordignon, John, assignor.)
- Eastman Kodak Company. (See Carroll, Stewart J., assignor.)
- Eastman, Kodak Company. (See Clarke, H. T., and Hartman, assignor.)
- Eastman Kodak Company. (See Clarke, Hans T., assignor.)
- Eastman Kodak Company. (See Donohue, John M., assignor.)
- Eastman Kodak Company. (See Eberlin, L. W., and Sheppard, assignors.)
- Eastman Kodak Company. (See Elliott, Felix A., assignor.)
- Eastman Kodak Company. (See Folmer, William F., assignor.)
- Eastman Kodak Company. (See Frederick, C. W., and Stewart, assignors.)
- Eastman Kodak Company. (See Jones, John G., assignor.)
- Eastman Kodak Company. (See Jones, Loyd A., assignor.)
- Eastman Kodak Company. (See Kingsbury, Edwin F., assignor.)
- Eastman Kodak Company. (See Kocher, Neil S., assignor.)
- Eastman Kodak Company. (See Kroedel, Robert, assignor.)
- Eastman Kodak Company. (See Malone, Lester J., assignor.)
- Eastman Kodak Company. (See McDaniel, Alonzo S., assignor.)
- Eastman Kodak Company. (See Riddell, William A., assignor.)
- Eastman Kodak Company. (See Seel, Paul C., assignor.)
- Eastman Kodak Company. (See Sentou, C. A., and Jaquet, assignors.)
- Eastman Kodak Company. (See Speidel, Charles F., assignor.)
- Eastman Kodak Company. (See Stinchfield, Ray L., assignor.)
- Eastman Kodak Company. (See Sulzer, A. F., and Dewey, assignors.)
- Eastman Kodak Company. (See Sulzer, Albert F., assignor.)
- Eastman Kodak Company. (See Tessier, Julien, assignor.)
- Eastman Kodak Company. (See Tozier, George H., assignor.)
- Eastman Kodak Company. (See Trivelli, Adriaan P. H., assignor.)
- Eastman Kodak Company. (See Von Bramer, Harold, assignor.)
- Eastman Kodak Company. (See Webb, William R., assignor.)
- Eastman Manufacturing Company. (See Eastman, Joseph P., assignor.)
- Easton, Elmer E., Brockton, Mass. Calculating device. No. 1,425,244; Aug. 8.
- Easton, Frank. (See Hoffman, D., and Easton.)
- Eastwick, Thomas S., and S. Weiss, Camden, N. J. Transmission mechanism. No. 1,432,983; Oct. 24.
- Eaton, Arthur C., Rockland, Me., and W. R. Cameron, Mamaroneck, N. Y., assignors, by mesne assignments, to Deep Sea Fisheries, Inc. Treating fish. No. 1,404,352; Jan. 24.
- Eaton, Carrie, Rivera, Calif. Food safe. No. 1,411,272; Apr. 4.
- Eaton, Charles B., St. Louis, Mo. Nut-cracking machine. No. 1,408,697; Mar. 7.
- Eaton, Charles F., Jr., New York, N. Y. Calculating instrument. No. 1,407,134; Feb. 21.
- Eaton, Clarence D., Kansas City, Mo. Oil gauge. No. 1,413,836; Apr. 25.
- Eaton, Claude G., Flint, Mich. Automobile bed. No. 1,409,687; Mar. 14.
- Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Supporting apparatus for use in tempering furnaces. No. 1,416,006; May 16.
- Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Resilient driving connection. No. 1,417,721; May 30.
- Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Gear wheel. No. 1,424,240; Aug. 1.
- Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Railway motor jack. No. 1,431,939; Oct. 17.
- Eaton, Harrison H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Press. No. 1,403,491; Jan. 17.
- Eaton, James M., et al., trustees. (See Eldmann, Frank L., assignor.)
- Eaton, John, Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 1,413,397; Apr. 18.
- Eaton, John, Schenectady, N. Y., assignor to General Electric Company. Motor control. No. 1,434,689; Nov. 7.
- Eaton, Melvin C., et al. (See McFarland, William M., assignor.)
- Eaton, Orrin O., Watsonville, Calif. Berry tray. No. 1,409,335; Mar. 14.
- Eaton, Orrin O., Watsonville, Calif. Carrier. No. 1,424,630; Aug. 1.
- Eaton, Richard M., Niagara Falls, N. Y. Flashlight. No. 1,438,586; Dec. 12.
- Eaton, Warren E., et al. (See McFarland, William M., assignor.)
- Eaton, William S., Sag Harbor, N. Y. Etching or like machine. No. 1,421,426; July 4.
- Eaton, William S., Sag Harbor, N. Y. Etching or like machine. No. 1,421,427; July 4.
- Eaves, Augustus J., assignor to Western Electric Company, Incorporated, New York, N. Y. Multiple switch. No. 1,422,549; July 11.
- Ebbenga, Georg L., Sibley, Iowa. Water heater. No. 1,422,941; July 18.
- Ebbs, Vernon M., Corcoran, Calif. Tent pole. No. 1,407,135; Feb. 21.
- Ebeling, Frederick W., New York, N. Y., assignor to Submarine Devices Corporation. Method of and apparatus for raising submerged vessels. No. 1,428,538; Sept. 12.
- Ebeling, Paul, Boston, Mass. Mop and wringer. No. 1,402,344; Jan. 3.
- Ebeling, Robert W., and H. J. Fanger, assignors to Standard Light Control Company, Oakland, Calif. Light control. No. 1,426,557; Aug. 22.
- Eberhard, John H., et al. (See Schnell, Charles A., assignor.)
- Eberhardt, Philip. (See Schwamb, P., and Eberhardt.)
- Eberhardt, Ulrich S., Maplewood, assignor to Newark Gear Cutting Machine Co., Newark, N. J. Retaining collar. No. 1,408,993; Mar. 7.
- Eberl, Frank, New York, N. Y. Glazing construction. No. 1,411,882; Apr. 4.
- Eberle, H. D., et al. (See Newman, Harry C., assignor.)
- Eberle, John A., St. Louis, Mo. Child's swing. No. 1,403,675; Jan. 17.
- Eberle, John A., St. Louis, Mo. Child's cart. No. 1,410,174; Mar. 21.
- Eberlin, Leon W., and S. E. Sheppard, assignors to Eastman Kodak Company, Rochester, N. Y. Light-diffusing medium and making the same. No. 1,421,924; July 4.
- Eberling, Charles M., assignor to The Eberling Machinery Company, Cleveland, Ohio. Cement-working machinery. No. 1,407,846; Feb. 28.
- Eberling Machinery Company, The. (See Eberling, C. M., assignor.)
- Eberly, Austin D., Spokane, Wash. Oil-testing device. No. 1,437,730; Dec. 5.
- Eberly, Sylvester, assignor to D. A. Yoder, Toledo, Ohio. Container-arranging apparatus. No. 1,422,942; July 18.
- Eberly, Sylvester, assignor to D. A. Yoder, Toledo, Ohio. Can-righting machine. No. 1,422,943; July 18.
- Eberson-Topp, Inc. (See Topp, James, assignor.)
- Eberspacher, George. (See Putnam, F. L., and Eberspacher.)
- Ebert, Rudolph G., Portland, Ore. Game board and game. No. 1,421,678; July 4.
- Eberts, Edward C., Jeffersonville, Ind. Stock divider. No. 1,417,045; May 23.
- Ebsen, William A., Montclair, N. J., assignor to National Oil Company, New York, N. Y. Oil-carrying ship or barge. No. 1,410,287; Mar. 21.
- Eburne, Thomas H., Winnipeg, Manitoba, Canada. Traction tread. No. 1,432,984; Oct. 24.
- Eby, Eugene D., Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. No. 1,415,321; May 9.
- Eby, Fred F. (See Campbell, P. A., Eby, and Price.)
- Echard, Marcel, Neuilly-sur-Seine, France. Valve gear with rotary valves. No. 1,427,726; Aug. 29.
- Echols, David K., St. Louis, Mo. Comb. No. 1,425,757; Aug. 15.
- Echter, Paul, New York, N. Y. Tire protector. No. 1,414,632; May 2.
- Echternach, Arthur M., Seattle, Wash. Automatic speed signal device. No. 1,433,989; Oct. 31.
- Eckard, James W. (See Sheehan, W. H., and Eckard.)
- Eckelbarger, Zena, Goshen, Ind. Automatic stop for sound-reproducing machines. No. 1,412,849; Apr. 18.
- Eckelmann, Luis E. (See Ferguson, G. E., and Eckelmann.)

Alphabetical list of patentees—Continued.

- Eckelmann, Luis E., New York, N. Y., assignor to Pyrene Manufacturing Company. Fire-extinguishing solution. No. 1,421,428; July 4.
- Eckenroth, Philip, assignor to Eckenroth Valve and Manufacturing Company, Philadelphia, Pa. Valve. No. 1,404,103; Jan. 17.
- Eckenroth Valve and Manufacturing Company. (See Eckenroth, Philip, assignor.)
- Eckerlein, Eugène L., Paris, France. Cover for the seats of sanitary apparatus. No. 1,429,724; Sept. 19.
- Eckert, James C., Jr., Stamford, Conn. Diving apparatus. No. 1,423,923; July 25.
- Eckert, Karl J. (See Holman, Benjamin T., assignor.)
- Eckertz, Heinrich, Essen-Rellinghausen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Coupling member for vehicles. No. 1,422,189; July 11.
- Eckery, Walter L., Perryville, Mo. Hog-ringing apparatus. No. 1,438,814; Dec. 12.
- Eckes, Frances M., Jersey City, N. J. Hospital chart. No. 1,419,831; June 13.
- Eckhard, John, Buffalo, N. Y. Shock absorber for vehicles. No. 1,426,051; Aug. 15.
- Eckhard, John, Buffalo, N. Y. Drill press. No. 1,426,052; Aug. 15.
- Eckhart, Charles F., Milwaukee, Wis. Lighting fixture. No. 1,405,674; Feb. 7.
- Eckles, Noble, assignor of three-fourths to L. W. Rhode, San Diego, Calif. Wrench. No. 1,408,275; Feb. 28.
- Eckles, P. O., et al. (See Blanton, Fred D., assignor.)
- Ecklund, John, et al. (See Brown, Charles H., assignor.)
- Eckre, Olof A., Kindred, N. Dak. Commutator. No. 1,420,026; June 20.
- Eckroat, Frank P. (See Sevier, C. D., and Eckroat.)
- Ecks, John. (See Norris, A. E., and Ecks.)
- Eclipse Interchangeable Counterbore Company, The. (See Kengel, George J., assignor.)
- Eclipse Interchangeable Counterbore Company, The. (See Smith, John H., assignor.)
- Eclipse Machine Company. (See McGrath, William L., assignor.)
- Eclipse Mfg. Co. (See Howell, Harry H., assignor.)
- Eclipse Railway Supply Company, The. (See Van Epp, Paul N., assignor.)
- Economic Steel Rack Company. (See Warnock, Amos W., assignor.)
- Economos, James N., Daphne, Ala. Okra machine. No. 1,425,373; Aug. 8.
- Economy Engineering Company. (See French, G. M., and Pavey, assignors.)
- Economy Hoist & Body Co., Inc. (See Hribst, A. W., and Culmer, assignors.)
- Economy Shoe Machine Co. (See Terry, George O., assignor.)
- Eddington, A. T. (See Pokorny, James T., assignor.)
- Eddison, William B., Irvington, N. Y., and H. S. Owens, Irvington, N. J., assignors to International Coal Products Corporation, Richmond, Va. Furnace retort. No. 1,413,838; Apr. 25.
- Eddy, Albert H., Cranston, assignor to Payton & Kelly Co., Providence, R. I. Belt buckle. No. 1,406,449; Feb. 14.
- Eddy, Albert H., Edgewood Station, R. I. Separable button. No. 1,430,008; Sept. 26.
- Eddy, Arthur H., Windsor, Conn. Process and apparatus for the vaporization of liquids and the production of fixed gases. No. 1,437,587; Dec. 5.
- Eddy, Arthur H., Windsor, Conn. Carburetor. No. 1,437,638; Dec. 5.
- Eddy, Edgar D., Ottawa, Ontario, Canada. Grain and seed grader and separator. No. 1,430,293; Sept. 26.
- Eddy, Edwin J., Otahuhu, Auckland, New Zealand. Collapsible core for hollow concrete walls. No. 1,430,439; Sept. 26.
- Eddy, Harold C., Los Angeles, assignor to Petroleum Rectifying Company of California, San Francisco, Calif. Adjustable field hydrator. No. 1,430,295; Sept. 26.
- Eddy, Harold C., Los Angeles, assignor to Petroleum Rectifying Company of California, San Francisco, Calif. Double field hydrator. No. 1,430,296; Sept. 26.
- Eddy, Harold C., Los Angeles, and J. T. Worthington, Whittier, assignors to Petroleum Rectifying Company of California, San Francisco, Calif. Dehydrator. No. 1,430,294; Sept. 26.
- Eddy, Russell H., assignor of two-thirds to H. W. Johnson, St. Paul, Minn. Shipping receptacle for cigars and other articles. No. 1,428,016; Sept. 5.
- Ede, Allsworth, S. C., Dubuque, Iowa. Double-ended filing cabinet. No. 1,414,505; May 2.
- Ede, George A., Cobden, Ill. Stapling machine. No. 1,411,007; Mar. 28.
- Edeberg, Albert W., Jamestown, N. Y. Lubricator-feed-converting means. No. 1,418,867; June 6.
- Edelen, James L., St. Louis, Mo. Antirattling device. No. 1,436,387; Nov. 21.
- Eden, Harold W., Chicago, Ill. Wringer support. No. 1,425,514; Aug. 15.
- Eden, Harold W., Alton, Ill., assignor, by mesne assignments, to Gillespie-Eden Corporation. Wringer for washing machines. No. 1,408,869; Mar. 7.
- Eden, Harold W., Chicago, Ill., assignor to Albaugh-Dover Company. Washing-machine tub. No. 1,427,791; Sept. 5.
- Edens, Henry N., New Holstein, Wis. Apparatus for cleaning air and other gases. No. 1,428,950; Sept. 12.
- Edens, Henry N., assignor to The John Lauson Manufacturing Company, New Holstein, Wis. Tractor. No. 1,432,446; Oct. 17.
- Edens, Robert W., and S. E. Clever, Fullerton, Calif. Apparatus for separating cemented well casings. No. 1,427,524; Aug. 29.
- Eder, Josef B., Johannesburg, Transvaal, South Africa. Mine and like electric bell. No. 1,405,819; Feb. 7.
- Edgar, Alma M., Holyoke, Colo. Garment hanger. No. 1,432,448; Oct. 17.
- Edgar, Graham, Washington, D. C., assignor to United States of America, as represented by the Secretary of War. Fertilizer and making same. No. 1,413,013; Apr. 18.
- Edgar, James D., Newcastle-upon-Tyne, England. Device for instruction in golf strokes. No. 1,409,688; Mar. 14.
- Edgar Steel Seal & Mfg. Co., The. (See Edgar, William K., assignor.)
- Edgar, William K., assignor to The Edgar Steel Seal & Mfg. Co., Lawrence, Kans. Milk-can seal. No. 1,415,431; May 9.
- Edge, Charles E., Rocky Mount, N. C. Protective device. No. 1,405,106; Jan. 31.
- Edgecomb, Millard C. (See Edgecomb, William H., assignor.)
- Edgecomb, William H., assignor of one-half to M. C. Edgecomb, Lubec, Me. Emergency track for motor vehicles. No. 1,432,447; Oct. 17.
- Edgecombe, Frederick T., Dunbarton, Scotland. Torsion meter. No. 1,434,107; Oct. 31.
- Edge Moor Iron Company. (See Sellers, William F., assignor.)
- Edick, John R., Hubbard, Iowa. Clutch-release lever. No. 1,413,837; Apr. 25.
- Edinger, George B., and J. S. McCoy, Foxburg, Pa. Electrically-operated control mechanism for retainer valves. No. 1,436,868; Nov. 28.
- Edison Electric Appliance Company. (See Halle, Simon, assignor.)
- Edison Electric Appliance Company. (See Richardson, Earl H., assignor.)
- Edison, Thomas A., Llewellyn Park, West Orange, N. J. Storage-battery electrode and the production of same. No. 1,402,751; Jan. 10.
- Edison, Thomas A., Llewellyn Park, West Orange, N. J. Protective coating for steel and iron. No. 1,410,391; Mar. 21.
- Edison, Thomas A., assignor to New Jersey Patent Company, West Orange, N. J. Production of molded articles. No. 1,411,425; Apr. 4.
- Edison, Thomas A., Llewellyn Park, West Orange, N. J. Production of thin metal sheets or foils. No. 1,417,464; May 23.
- Edison, Thomas A., Llewellyn Park, West Orange, N. J. Transmitter. No. 1,425,183; Aug. 8.
- Edison, Thomas A., Llewellyn Park, West Orange, N. J. Production of thin metal sheets or foils. No. 1,425,184; Aug. 8.
- Edison, Thomas A., Llewellyn Park, West Orange, N. J., assignor to New Jersey Patent Company, West Orange, N. J. Stylus mounting. No. 1,425,458; Aug. 8.
- Edison, Thomas A., West Orange, and C. G. Kircher, Irvington, assignors to New Jersey Patent Company, West Orange, N. J. Mold. No. 1,417,463; May 23.
- Edman, John, Minneapolis, Minn. Antirattler for automobile steering connections. No. 1,403,019; Jan. 10.
- Edman, John, Minneapolis, Minn., assignor to P. M. Power, Chicago, Ill. Convertible stock and freight car. No. 1,436,487; Nov. 21.
- Edmonds, Walter S., Boston, Mass. Ice-cream freezer. No. 1,414,727; May 2.
- Edmonds, Walter S., Boston, Mass. Mechanical drive mechanism. No. 1,433,125; Oct. 24.
- Edmiston, John J. (See Andes, Eugene B., assignor.)
- Edmonds, Percy J., Winchester, England. Draw-bar coupling for tractors. No. 1,424,631; Aug. 1.
- Edmonds, Walter D. (See Hawes, Herbert E., assignor.)
- Edmondson, Harvey S., Spokane, Wash. Calculator. No. 1,422,944; July 18.
- Edmondson, Ralph S., Elizabeth, N. J., assignor to American Abrasive Metals Company. Plate for resisting flame and cutting tools. No. 1,423,652; July 25.
- Edmunds & Jones Corporation. (See Godley, Charles E., assignor.)
- Edmunds & Jones Corporation. (See Kerwin, Thomas J., assignor.)
- Edmunds & Jones Corporation. (See Preston, Edward S., assignor.)
- Edmondson, Millard, San Francisco, Calif. Erasing shield. No. 1,415,088; May 9.
- Edwin Brass Manufacturing Company. (See Macnier, Edwin, assignor.)
- Edney, Hiram L., assignor to E. J. Rueb, Wirt, Okla. Battery grid and making same. No. 1,432,845; Oct. 24.
- Edrington, Hiram, Louisville, Ky. Portable furnace. No. 1,408,571; Mar. 7.
- Edser, Edwin. (See Broadbridge, W., Edser, and Sellers.)

- Edser, Edwin, H. L. Sulman, and F. B. Jones, London, England, assignors to Minerals Separation North American Corporation, New York, N. Y. Treatment of materials containing coal. No. 1,418,547; June 6.
- Edson, W. S., et al. (See Marmon, Albert W., assignor.)
- Edstrom, Albert, Duluth, Minn. Bag holder. No. 1,403,751; Jan. 17.
- Edstrom, Earnest E., Whitefish, Mont. Buckle. No. 1,412,515; Apr. 11.
- Edwards, Alfred T., assignor to Jabez Cliff & Company Limited, Walsall, Stafford, England. Football and other gameball. No. 1,438,226; Dec. 12.
- Edwards, Amos, et al. (See van Meiteren, Harry W., assignor.)
- Edwards, Arthur L., Maupin, Oreg. Drilling machine. No. 1,424,997; Aug. 8.
- Edwards, Charles C. (See Roberts, Irvin, assignor.)
- Edwards, Charles D., Albert Lea, Minn. Road grader. No. 1,429,026; Sept. 12.
- Edwards, Clayton. (See Edwards, Welford G. and C.)
- Edwards, Clifford R. (See Cappel, J., and Edwards.)
- Edwards Corporation. (See Buch, Max, assignor.) (Re-issue.)
- Edwards, Daniel G., Hopkinsville, Ky. Air pump. No. 1,405,907; Feb. 7.
- Edwards, Daniel G., Hopkinsville, Ky. Running-board pump. No. 1,405,908; Feb. 7.
- Edwards, B. O. (See Moore, Clarence L., assignor.)
- Edwards, Edward B. (See Smith, C. H., and Edwards.)
- Edwards, Edwin L., assignor to Edwards X-Ray Corporation, Indianapolis, Ind. X-ray cabinet. No. 1,419,241; June 13.
- Edwards, Edwin L., assignor to Edwards X-Ray Corporation, Indianapolis, Ind. Adjustable X-ray tube holder. No. 1,423,924; July 25.
- Edwards, Francis E., assignor to Stromberg Motor Devices Company, Chicago, Ill. Fuel-feed system. No. 1,415,162; May 9.
- Edwards, Francis E., Crystal Lake, assignor to Stromberg Motor Devices Company, Chicago, Ill. Fuel-feed system. No. 1,418,548; June 6.
- Edwards, Francis E., Jacksonville, Fla. Grain bin. No. 1,415,816; May 9.
- Edwards, Francis W., Elmhurst, N. Y. Floss carrier. No. 1,439,076; Dec. 19.
- Edwards, Frank, Easton, Wash. Pipe-holder flue attachment. No. 1,414,266; Apr. 25.
- Edwards, Frank W., Chicago, Ill. Automatic feed control for flange oilers. No. 1,433,449; Oct. 24.
- Edwards, Frederick H., Meriden, Conn., assignor to American Manganese Steel Company, Augusta, Me. Gyratory crusher. No. 1,410,244; Mar. 21.
- Edwards, George L., Greenville, N. C. Truck. No. 1,431,383; Oct. 10.
- Edwards, Henry J., Elyria, assignor to The Willys-Overland Company, Toledo, Ohio. Internal-combustion engine. No. 1,404,015; Jan. 17.
- Edwards, Henry J., Elyria, assignor to The Willys-Overland Company, Toledo, Ohio. Baffle plate for V-type motors. No. 1,416,803; May 23.
- Edwards, Henry J., Elyria, assignor to The Willys-Overland Company, Toledo, Ohio. Rotary pump. No. 1,421,766; July 4.
- Edwards, Herbert A., London, England. Mount for artificial teeth. No. 1,422,044; July 4.
- Edwards, James M., New York, N. Y. Ventilating device. No. 1,405,820; Feb. 7.
- Edwards, John. (See Brautigan, Josef, assignor.)
- Edwards, John C., Moundsville, W. Va. Automobile chain. No. 1,429,853; Sept. 19.
- Edwards, Joseph B., Jersey City, assignor to Tide Water Oil Company, Bayonne, N. J. Oil-cracking apparatus. No. 1,410,175; Mar. 21.
- Edwards, Junius D., Pittsburgh, F. G. Frary, Oakmont, and H. V. Churchill, assignors to Aluminum Company of America, Pittsburgh, Pa. Making castings of aluminum-silicon alloys. No. 1,410,461; Mar. 21.
- Edwards, Karl B., London, England. Manufacture of arsenical compounds. No. 1,422,945; July 18.
- Edwards, Karl B., Eltham, London, England. Manufacture of arsenical compounds. No. 1,424,006; July 25.
- Edwards Manufacturing Company, The. (See Brown, Silas B., assignor.)
- Edwards, Mazie C., Norwich, Conn. Spool holder. No. 1,433,356; Oct. 24.
- Edwards, O. M., Company, The. (See Axe, Roy T., assignor.)
- Edwards, O. M., Company, The. (See Young, Hiram J., assignor.)
- Edwards, Van Every, assignor of one-fourth to W. F. Huegel, one-fourth to T. Lawrence, and one-fourth to T. T. Thompson. Home savings bank. No. 1,432,680; Oct. 17.
- Edwards, Welford G. and C., Plainview, Minn. Milling and keyway-cutting attachment for lathes. No. 1,405,909; Feb. 7.
- Edwards, William, Schenectady, N. Y., assignor to General Electric Company. Packing for mercury dashpots. No. 1,421,767; July 4.
- Edwards, William, Schenectady, N. Y., assignor to General Electric Company. Shaft coupling. No. 1,434,690; Nov. 7.
- Edwards, William A., assignor of one-half to Webb Jay, and one-half to Stewart-Warner Speedometer Corporation, Chicago, Ill. Carburetor. No. 1,411,426; Apr. 4.
- Edwards, William A., assignor of ten per cent to I. J. Wilson and one-half to C. E. Reed, Chicago, Ill. Oiling system. No. 1,428,017; Sept. 5.
- Edwards, William A., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Fuel lifting and carbureting device. No. 1,437,048; Nov. 28.
- Edwards, William E., Irvington, N. J. Tobacco-pipe stand. No. 1,429,228; Sept. 19.
- Edwards, William E., Irvington, N. J. Stand for cigarettes and the like. No. 1,429,229; Sept. 19.
- Edwards, William F., Warren, Ohio. Metallic roof. No. 1,426,558; Aug. 22.
- Edwards, William F., Warren, Ohio. Swing pipe cable guide and stuffing box. No. 1,435,154; Nov. 14.
- Edwards, William H., Grand Rapids, Mich. Expandable and contractable leaf-binder and covering member therefor. No. 1,406,829; Feb. 14.
- Edwards, William H., Garysburg, assignor of one-half to J. F. Pennewell, Gumberry, N. C. Pipe grip. No. 1,420,532; June 20.
- Edwards, William J., Geneva, Ohio. Water heater. No. 1,415,432; May 9.
- Edwards, William J., Montreal, Quebec, Canada. Burner. No. 1,440,214; Dec. 26.
- Edwards, William R., and J. Lukes, assignors to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Machine for sizing and punching rims and bands. No. 1,419,619; June 13.
- Edwards, William W., Los Angeles, Calif. Bumper-bar fender. No. 1,423,604; July 25.
- Edwards, Winifred F., London, England. Combined bookmarker and leaf holder. No. 1,431,106; Oct. 3.
- Edwards X-Ray Corporation. (See Edwards, Edwin L., assignor.)
- Edwards and Powell Company. (See Bredeson, Gustave, assignor.)
- Edworthy, Frederick W., Washington, D. C. Container. No. 1,401,969; Jan. 3.
- Eeftink, Herman, Leopold, Mo. Eaves-trough hanger. No. 1,414,345; May 2.
- Efficiency Electric Corporation. (See Dean, William W., assignor.)
- Efficiency File Co. (See Turner, Roy J., assignor.)
- Efficiency Machine Tool Products Co., The. (See Goordman, Elmer O., assignor.)
- Eford, Grace A., Chicago, Ill. Curtain holder. No. 1,435,110; Nov. 7.
- Egan, George F., Chicago, Ill. Seam-guiding presser foot. No. 1,427,197; Aug. 29.
- Egan, Peter, Bennington, Vt. Knitting-machine-needle jack. No. 1,434,108; Oct. 31.
- Egbert, Albert, and E. Holmes, Toledo, Ohio. King bolt. No. 1,421,768; July 4.
- Egbert, Benjamin V. (See Kinder, C. L., and Egbert.)
- Egbert, David C., Kennett, Mo. Gauge. No. 1,403,304; Jan. 10.
- Eger, Ernst, Detroit, Mich., assignor to Morgan & Wright. Bale cutter. No. 1,405,401; Feb. 7.
- Eger, Ernst, Detroit, Mich., assignor to Morgan & Wright. Mixing machine. No. 1,427,271; Aug. 29.
- Eger, Ernst, Detroit, Mich., assignor to Morgan & Wright. Mixing machine. No. 1,427,272; Aug. 29.
- Eger, George, Plainville, assignor to The Stanley Works, New Britain, Conn. Gauge for carpenters' planes and the like. No. 1,412,609; Apr. 11.
- Eger, John B., Chicago, Ill. Automobile signal. No. 1,414,346; May 2.
- Egersdörfer, Fritz. (See Loewenthal, M., and Egersdörfer.)
- Egersdörfer, Fritz, Charlottenburg, Germany. Rotary machine. No. 1,422,946; July 18.
- Egerton, Henry C., Ridgewood, N. J. Harness. No. 1,419,450; June 13.
- Egerton, Henry C., Ridgewood, N. J. Friction driving device. No. 1,422,550; July 11.
- Egerton, Henry C., Passaic, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge-device circuits. No. 1,426,826; Aug. 22.
- Eggbrecht, Emil W., Milwaukee, Wis. Key retainer. No. 1,432,985; Oct. 24.
- Eggenweiler, Charles W., assignor to General Aluminum & Brass Mfg. Co., Detroit, Mich. Making bearings or the like. No. 1,402,849; Jan. 10.
- Egger, Louis, Sumiswald, Switzerland. Book-sewing machine. No. 1,428,153; Sept. 5.
- Egger, Luis G., New York, N. Y. Toy knitting machine. No. 1,414,869; May 2.
- Eggert, Charles J., and C. L. Bonhan, Galesburg, Ill. Poultry crate. No. 1,436,869; Nov. 28.
- Eggert, Gustav B., assignor to Baker-Perkins Manufacturing Corporation, Saginaw, Mich. Kneading and mixing machine. No. 1,411,610; Apr. 4.
- Eggert, Gustav B., assignor to Baker-Perkins Manufacturing Corporation, Saginaw, Mich. Apparatus for handling bread. No. 1,427,679; Aug. 29.
- Eggert, Gustav B., assignor to Baker-Perkins Manufacturing Corporation, Saginaw, Mich. Apparatus for cooling bread and for similar operations. No. 1,430,160; Sept. 26.

Alphabetical list of patentees—Continued.

- Eggert, Gustav B., assignor to Baker-Perkins Manufacturing Corporation, Saginaw, Mich. Apparatus for automatically righting loaves of bread. No. 1,432,747; Oct. 24.
- Eggert, Otto H., Chicago, Ill. Towel rack. No. 1,425,459; Aug. 8.
- Eggert, Otto H., Chicago, Ill. Mirror attachment. No. 1,438,103; Dec. 5.
- Egleston, Will J., assignor to one-half to G. T. Wanick, Everett, Wash. Trolling spoon. No. 1,425,951; Aug. 15.
- Egle, William, Detroit, Mich. Water filter. No. 1,401,970; Jan. 3.
- Egleston, Benjamin, assignor to one-half to J. S. Richard, Franklin, Pa. Paper-hanging machine. No. 1,403,395; Jan. 10.
- Egli, Huldreich, Baltimore, Md. Mechanical movement. No. 1,414,461; May 2.
- Egly, Georg, Berlin-Treptow, assignor to Gebr. Siemens & Co., Lichtenberg, near Berlin, Germany. Heating-bar terminal. No. 1,418,633; June 6.
- Egly, John C., Philadelphia, Pa. Knitting-machine needle. No. 1,415,322; May 9.
- Egry Register Company, The. (See Stern, M. C., and Neth, assignors.)
- Ehemann, William, and G. Gaitsch, Aliquippa, Pa. Valve. No. 1,437,750; Dec. 5.
- Ehle, Archibald H., Merion, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Quill drive for electric locomotives. No. 1,435,056; Nov. 7.
- Ehle, Homer F. (See Iverson, William H., assignor.)
- Ehler, Herman W., New York, N. Y. Interchangeable filing tray. No. 1,409,160; Mar. 14.
- Ehlich, Eugene, Endicott, N. Y. Tire and puncture-proof protector therefor. No. 1,420,979; June 27.
- Ehlich, Eugene, Endicott, assignor to Universal Instruments and Metal Company, Inc., Union, N. Y. Safety pin. No. 1,433,678; Oct. 31.
- Ehlig, Harry, Pearl River, assignor to George R. Swart & Company, Inc., New York, N. Y. Sheet register. No. 1,439,804; Dec. 26.
- Ehlig, Harry, Pearl River, assignor to George R. Swart & Company, Inc., New York, N. Y. Folding and slitting machine. No. 1,439,805; Dec. 26.
- Ehmann, Jacob, Arlington, N. J. Box fastener. No. 1,438,950; Dec. 19.
- Ehmka, William C., assignor to Detroit Sheet Metal Works, Detroit, Mich. Air-circulating system for industrial ovens. No. 1,421,429; July 4.
- Ehnborn, Charles B., Glen Ellyn, assignor to Thos. Cusack Company, Chicago, Ill. Illuminated sign. No. 1,406,626; Feb. 14.
- Ehnborn, Clemens E., Chicago, Ill. Spool. No. 1,411,328; Apr. 4.
- Ehrat, Jacob, Zurich, Switzerland. Device for increasing the efficiency of internal-combustion engines. No. 1,413,711; Apr. 25.
- Ehrenfeld, Ralph, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control switch for electric motors. No. 1,433,707; Oct. 31.
- Ehrenfeld, Ralph, and H. G. Caldwell, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Mounting for sewing-machine motors. No. 1,417,722; May 30.
- Ehrenfeld, William C. (See Wilson, E. H., and Ehrenfeld.)
- Ehrentraut, Charles F., Pittsburgh, Pa. Outage gauge. No. 1,417,892; May 30.
- Ehresmann, Adam, et al. (See Streibel, Ludwig, assignor.)
- Ehret, Cornelius D. (See McCaa, David G., assignor.)
- Ehret, Cornelius D., Philadelphia, Pa. Electronic apparatus. No. 1,419,547; June 13.
- Ehrhardt, Frank E., San Francisco, Calif. Sanitary cover attachment for cuspidors. No. 1,404,943; Jan. 31.
- Ehrhart, Raymond N., Edgewood, Pa. Condenser. No. 1,407,137; Feb. 21.
- Ehrhart, Raymond N., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condensing apparatus. No. 1,405,821; Feb. 7.
- Ehrhart, Raymond N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co. Condenser. No. 1,406,356; Feb. 14.
- Ehrhart, Raymond N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co. Vacuum breaker. No. 1,407,136; Feb. 21.
- Ehrhart, Raymond N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Heat-conserving apparatus. No. 1,432,281; Oct. 17.
- Ehringer, Bert H., Chicago, Ill. Traction mat. No. 1,412,048; Apr. 11.
- Ehrlich, Henry G. (See Haney, Fred G., assignor.)
- Ehrlich, Louis. (See Ehrlich, Morris and L.)
- Ehrlich, Morris and L., Brooklyn, N. Y. Can opener. No. 1,407,521; Feb. 21.
- Ehrlich, William, Chicago, Ill. Vehicle safe. No. 1,416,179; May 16.
- Ehrman, Bertha, S. Johanson, C. M. Johanson, and P. M. Peterson, Tacoma, Wash. Clamp for ironing-board cloths. No. 1,420,027; June 20.
- Ehrman, Edwin H., Oak Park, Ill., assignor to Standard Screw Company, Hartford, Conn. Sorting machine. No. 1,411,169; Mar. 28.
- Eiane, Halvor O., Detroit Harbor, Wis. Drafting instrument. No. 1,435,893; Nov. 14.
- Eiben, Michael A. (See Goebel, A., and Eiben.)
- Elbye, Carl, assignor to The H. & E. Co., Boston, Mass. Windshield-clearing device. No. 1,403,545; Jan. 17.
- Eich, Albert A., Richmond, Minn. Pumping machinery. No. 1,402,059; Jan. 3.
- Eichelberger, Frank E., Muscatine, Iowa. Lubricant-stick holder. No. 1,438,026; Dec. 5.
- Eicheler, Hans, Wesseling, near Cologne, Germany. Centrifugal pump. No. 1,412,105; Apr. 11.
- Eichenberger, Ferdinand, assignor to the firm S. A. Kummier & Matter, Aarau, Switzerland. Manufacturing electrical resistance material. No. 1,420,980; June 27.
- Eichengrün, Arthur, Berlin, Germany, assignor, by mesne assignments, to American Cellulose Company (Inc.), New York, N. Y. Production of noninflammable celluloid. No. 1,420,028; June 20.
- Eichensehr, George C., and J. E. Niesner, Johnstown, Pa. Rail fastener. No. 1,412,850; Apr. 13.
- Eichhorn, Theodore A., Oak Park, assignor to V. T. Tobolia, Chicago, Ill. Bunion protector. No. 1,436,439; Nov. 21.
- Eichman, Arthur W., assignor to A. Mueller, trustee, Decatur, Ill. Crushed-fruit jar. No. 1,419,921; June 20.
- Eichman, Arthur W., assignor to A. Mueller, trustee, Decatur, Ill. Combined seat and table. No. 1,429,939; Sept. 26.
- Eichman, John, and E. J. Watson, Buffalo, N. Y. Can beading and curling machine. No. 1,412,232; Apr. 11.
- Eickhoff, Theodore H., Cleveland, Ohio, assignor to Auto-Ordinance Corporation, New York, N. Y. Hammer construction. No. 1,403,492; Jan. 17.
- Eickhoff, Theodore H., Cleveland, Ohio, assignor to Auto-Ordinance Corporation, New York, N. Y. Breech closure for guns. No. 1,406,546; Feb. 14.
- Eickhoff, Theodore H., Cleveland, Ohio, assignor to Auto-Ordinance Corporation, New York, N. Y. Gun sight. No. 1,408,276; Feb. 28.
- Eickhoff, Theodore H., Cleveland, Ohio, assignor to Auto-Ordinance Corporation, New York, N. Y. Gun mechanism. No. 1,433,945; Oct. 31.
- Eickhoff, Theodore H., Cleveland, Ohio, assignor to Auto-Ordinance Corporation, New York, N. Y. Fire control for automatic guns. No. 1,437,889; Dec. 5.
- Eickoff, Henry J., Hamilton, Ontario, Canada. Envelope. No. 1,423,653; July 25.
- Eidltz, Charles L., New York, N. Y., assignor to Metropolitan Electric Manufacturing Company. Safety switch and fuse box. No. 1,417,723; May 30.
- Eidmann, Frank L., assignor to E. N. White, J. L. Wyckoff, and J. M. Eaton, Holyoke, Mass., trustees doing business as Cowan Truck Company. Dashpot check for elevating trucks. No. 1,409,287; Mar. 14.
- Eidmann, Frank L., assignor to J. L. Wickoff, E. N. White, and G. T. Jenks, Holyoke, Mass., trustees, doing business as Cowan Truck Company. Elevating truck. No. 1,415,926; May 16.
- Eiermann, William, Brooklyn, N. Y. Ash collecting and dumping machine. No. 1,415,024; May 9.
- Eiffe, James M., assignor to The White Mop Wringer Company, Fultonville, N. Y. Mop wringer. No. 1,434,534; Nov. 7.
- Eigabroadt, Harry C., Amsterdam, N. Y. Signal-indicator system. No. 1,422,349; July 11.
- Eiken, Hjalmar F., Skorpning, Denmark. Appliance for regulating the hardness of Röntgen-ray tubes. No. 1,418,139; May 30.
- Eiler, Klaus, Sahrendorf-on-Fehmarn, Holstein, Germany, assignor to P. Eiler, Germantown, Calif. Sound-damping door. No. 1,405,984; Feb. 7.
- Eiler, Owen H., Philadelphia, Pa. Hay loader. No. 1,406,946; Feb. 14.
- Eiler, Peter. (See Eiler, Klaus, assignor.)
- Eilersen, From C., Jersey City, N. J. Pie-making machine. No. 1,421,430; July 4.
- Eilertsaard, Asger, assignor to Hanna Engineering Works, Chicago, Ill. Driving mechanism. No. 1,437,639; Dec. 5.
- Eilmann, Robert. (See Springman, Sidney H., assignor.)
- Eimer, August, New York, N. Y. Electrical furnace. No. 1,438,936; Dec. 12.
- Einfeldt, Ernest E., assignor to French & Hecht, Davenport, Iowa. Wheel hub. No. 1,409,161; Mar. 14.
- Einfeldt, Ernest E., assignor to French & Hecht, Davenport, Iowa. Making wheel hubs. No. 1,409,213; Mar. 14.
- Einsiedel, Stanley F. E. (See Robbins, G. A. H., and Einsiedel.)
- Einson Litho, Incorporated. (See Ganz, Albert J., assignor.)
- Einstein, Milton I. D., New York, N. Y. Embroidered ornamental dot. No. 1,409,214; Mar. 14.
- Einstein, Sol., assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Trip mechanism for machine tools. No. 1,419,117; June 6.
- Eisele, Charles W., Flint, Mich. Lamp dimmer. No. 1,426,162; Aug. 15.
- Eisele, Logan, Rutherford, N. J. Shield for glass syringes. No. 1,432,238; Oct. 17.
- Eisemann Magneto Corporation. (See Andrew, Frederick W., assignor.)
- Eisenbach, Peter, Detroit, Mich. Spring wheel. No. 1,411,329; Apr. 4.

- Eisenhard, Frank, assignor of one-half to E. S. Adams, Allentown, Pa. Screw driver. No. 1,438,227; Dec. 12.
- Eisenmann, Carl W., Nebraska City, Nebr. Magnetic compass. No. 1,435,633; Nov. 14.
- Eisenstark, Isadore, Brooklyn, N. Y., assignor to Eisenstark & Lipshitz, New York, N. Y. Flexible key case. No. 1,403,898; Jan. 17.
- Eisenstark & Lipshitz. (See Eisenstark, Isadore, assignor.)
- Eiserman, Fred J. (See Christopher, C. E., and Eiserman.)
- Eisinga, Dirk, Seattle, Wash. Bolting-up machine. No. 1,413,014; Apr. 18.
- Eisinga, Dirk, assignor to Ames Ship Building and Dry Dock Company, Seattle, Wash. Scarfing machine. No. 1,413,712; Apr. 25.
- Eitser, Albert N., Mason City, Iowa. Folding crate or coop. No. 1,409,935; Mar. 21.
- Ek, Arvid, Portland, Me. Water closet. No. 1,402,850; Jan. 10.
- Ekdahl, Gustaf W. (See Whipple, W., and Ekdahl.)
- Ekehorn, Sven A., assignor of one-half to D. B. Swartz, Milwaukee, Wis. Convertible body support. No. 1,405,768; Feb. 7.
- Ekelund Brothers. (See Ellin, Nicholas A., assignor.)
- Ekin, Linn D., Butler, Pa. Hoisting-drum control. No. 1,417,465; May 23.
- Ekiss, Dan E., A. D. Freeland, L. A. Freeland, and M. A. Freeland, Bethany, Ill. Tractor guide. No. 1,402,851; Jan. 10.
- Eklöf, Arthur G., Providence, R. I. Number-plate holder. No. 1,403,073; Jan. 10.
- Eklund, Georg, Winona, Minn. Driving mechanism for velocipedes. No. 1,425,082; Aug. 8.
- Eklund, John G., assignor to St. Joseph Iron Works, St. Joseph, Mich. Mechanical movement. No. 1,422,682; July 11.
- Ekman, Claes G. (See Avander, F. A., Nilsson, and Ekman.)
- Ekstrand, Lars M., Waukegan, Ill., assignor to The American Steel and Wire Company of New Jersey. Rolling-mill guide. No. 1,405,985; Feb. 7.
- Ekstrom, Eric S., et al. (See Faust, Levin, assignor.)
- Ekwall, Nils R. G., Halmstad, Sweden. Protective glasses for fyers, casters, welders, etc. No. 1,415,536; May 9.
- Eland, Reinhard W., Davenport, Iowa. Spring tire. No. 1,439,077; Dec. 19.
- Elbe, William C., Cincinnati, Ohio. Master collet. No. 1,408,182; Feb. 28.
- Elbert, Otto C., Bremerton, Wash. Manhole cover. No. 1,438,172; Dec. 12.
- Elbertz, Frank V., assignor to B. F. Everitt Company, Detroit, Mich. Differential mechanism. No. 1,405,986; Feb. 7.
- Elbertz, Frank V., Kokomo, Ind., assignor of one-fourth to A. Bachle, Detroit, Mich. Variable-leverage gearing. No. 1,406,627; Feb. 14.
- Elbertz, Frank V., Kokomo, Ind., assignor of one-fourth to A. Bachle, Detroit, Mich. Differential gearing. No. 1,409,535; Mar. 14.
- Elcock, Robert, Johannesburg, Transvaal, South Africa. Combination lock. No. 1,405,987; Feb. 7.
- Elder, Austin C., Canton, Ohio. Door opener. No. 1,410,901; Mar. 28.
- Elder, Earl B., assignor to E. D. Anderson, Inc., New York, N. Y. Automatic packaging equipment. No. 1,421,925; July 4.
- Elder, Earl B., assignor to E. D. Anderson, Inc., New York, N. Y. Automatic weighing mechanism. No. 1,421,926; July 4.
- Elder, Edgar E. (See Ram, John H., assignor.)
- Elder, James E., Highwood, Mont. Wood-sawing machine. No. 1,420,950; June 27.
- Elder, William J., Oswego, N. Y., assignor to The Diamond Match Company, Chicago, Ill. Machine for packing matches. No. 1,430,891; Oct. 3.
- Eldred, Byron E., New York, N. Y., assignor to Chemical Development Company. Cellulose-ester composition. No. 1,408,423; Feb. 28.
- Eldredge, Clyde T., San Francisco, Calif. Highway track. No. 1,403,943; Jan. 17.
- Eldredge, Clyde T., San Francisco, Calif. Highway track. No. 1,413,839; Apr. 25.
- Eldredge, Judson M., Indianapolis, Ind. Mattress border. No. 1,413,577; Apr. 25.
- Eldridge, James E., W. B. and C. E. Burgess, and C. N. Ashbee, Brentwood, England. Motor mower. No. 1,428,154; Sept. 5.
- Eldridge, John, assignor of one-half to H. Butler, Winnipeg, Manitoba, Canada. Shoe fastener. No. 1,425,245; Aug. 8.
- Eldridge, John E., Buffalo, N. Y. Broom. No. 1,424,241; Aug. 1.
- Electric Auto-Lite Company, The. (See Gilchrist, Clarence F., assignor.)
- Electric Auto-Lite Corporation. (See Gordon, Hayner H., assignor.)
- Electric Auto-Lite Corporation. (See Richter, Walter E., assignor.)
- Electric Auto-Lite Corporation. (See Saxon, Herman R., assignor.)
- Electric Boat Company. (See Grieshaber, Hugo E., assignor.)
- Electric Controller Company. (See Goldberg, Arthur M., assignor.)
- Electric Controller Company. (See Rhodes, Rowland P., assignor.)
- Electric Controller & Manufacturing Company, The. (See Frost, Homer E., assignor.)
- Electric Controller & Manufacturing Company. (See Stratton, Harry F., assignor.)
- Electric Dehydrating Company. (See Giebner, Samuel A., assignor.)
- Electric Fruit Marking Machine Co. (See Neuenschwander, Lewis, assignor.)
- Electric Heated Spark Plug Co. (See Faber, Alvin J., assignor.)
- Electric Heating Corporation. (See Macy, Barnett W., assignor.)
- Electric Milker Corporation. (See Gessler, Frederick A., assignor.)
- Electric Outlet Company. (See Wood, William H., assignor.) (Reissue.)
- Electric Radiator & Engineering Co. (See Lennig, Edmund B., assignor.)
- Electric Railway Improvement Co., The. (See Kjellgren, John G., assignor.)
- Electric Railway Improvement Company, The. (See Caldwell, Charles A., assignor.)
- Electric Service Supplies Company. (See Lewis, H. G., and Mayer, assignors.)
- Electric Smelting & Aluminum Co., The. (See Guernsey, Ray H., assignor.)
- Electric Storage Battery Company, The. (See Dean, Herbert, assignor.)
- Electric Vacuum Cleaner Company. (See Hoff, Earl B., assignor.)
- Electric Vacuum Cleaner Company. (See Kirby, James B., assignor.)
- Electric Water Sterilizer & Ozone Company. (See Hartman, Harry B., assignor.)
- Electric Wheel Co., Associates. (See Knudsen, Karsten, assignor.)
- Electrical Alloy Company. (See Mandell, Ambrose J., assignor.)
- Electrical Autolite Corporation. (See Saxon, Herman R., assignor.)
- Electrical Engineers Equipment Co. (See Christensen, Christen, assignor.)
- Elektriska Aktiebolaget Eck. (See Johnson, Edwin, assignor.)
- Elektrizitätswerk, Lonza. (See Danneel, H., and Lüscher, assignors.)
- Elektrizitätswerk Lonza. (See Lechtenhahn, Theodor, assignor.)
- Elektrizitätswerk, Lonza. (See Tommasi, N. C., and Daniel, assignors.)
- Elektrizitätswerk Lonza. (See Tommasi, Carlo, assignor.)
- Electro Metallurgical Company. (See Becket, F. M., and Holladay, assignors.)
- Electro Metallurgical Company. (See Becket, Frederick M., assignor.)
- Elektro-Osmose Aktiengesellschaft (Graf Schwerin Gesellschaft.) (See Wolf, Kuno, assignor.)
- Electro Steel Products Corporation. (See Lachman, Maurice, assignor.)
- Electrol Manufacturing Company. (See Hacking, Edward, assignor.)
- Electrol Manufacturing Company. (See Williams, Horace M., assignor.)
- Electrolytic Oxy-Hydrogen Laboratories, Inc. (See Levin, Isaac H., assignor.)
- Electrolytic Zinc Company of Australasia Proprietary Limited. (See Avery, D., and Stevens, assignors.)
- Electrolytic Zinc Company of Australia Proprietary Limited. (See Avery, D., Stevens, and Williams, assignors.)
- Electrostatic Separation Company. (See Brown, George R., assignor.)
- Elektrothermit Gesellschaft mit beschränkter Haftung. (See Wattmann, John, assignor.)
- Elenchuk, Peter, Boston, Mass. Tool handle. No. 1,426,265; Aug. 15.
- Elevator Company of America. (See Schakel, Jacob D., assignor.)
- Elfman, Samuel, Boston, Mass. Means for securing shoe heels. No. 1,439,301; Dec. 19.
- Elfreth, Harold D., assignor, by mesne assignments, to H. S. B. W.-Cochrane Corporation, Philadelphia, Pa. Strainer valve for filters. No. 1,409,337; Mar. 14.
- Elgin Auto Tool Company. (See Gielow, Harry C., assignor.)
- Elgin, John E., Cedar Rapids, Iowa. Tire rack. No. 1,410,740; Mar. 28.
- Elgin Silver Plate Company. (See Blackburn, Guy, assignor.)
- Elgy, Valentine C. H., Surrey, England. Apparatus for sorting out and delivering bodies or lids of tins or the like. No. 1,425,374; Aug. 8.
- Elgy, Valentine C. H., London, England. Apparatus for applying lids to tins, cans, and the like. No. 1,439,620; Dec. 19.
- Elia, Giovanni E., New York, N. Y. Mine. No. 1,430,161; Sept. 26.
- Elia, Giovanni, E., New York, N. Y. Apparatus for detecting and indicating the presence of submarine boats. No. 1,430,162; Sept. 26.

Alphabetical list of patentees—Continued.

- Elias, Abraham J. (See Dunlap, David E., assignor.)
 Elias, David W., Hayward, Calif. Shoe. No. 1,439,806; Dec. 26.
 Elias, Elias J., Omaha, Nebr. Wire-stretching machine. No. 1,415,089; May 9.
 Eliel, Albert L., Los Angeles, Calif. Signal. No. 1,410,392; Mar. 21.
 Eliel, Oscar H., La Salle, Ill. Manufacturing metal castings. No. 1,412,851; Apr. 18.
 Eliel, Oscar H., La Salle, Ill. Washing machine. No. 1,436,700; Nov. 28.
 Eliel, Oscar H., La Salle, Ill. Washing machine. No. 1,436,701; Nov. 28.
 Elkin, Louis, Chicago, Ill. Binder. No. 1,406,450; Feb. 14.
 Elledge, Arthur L., Duncan, Ariz. Cultivator. No. 1,407,647; Feb. 21.
 Eller, Harley M., and O. Carlson, Boston, Mass. Valve. No. 1,414,118; Apr. 25.
 Eller, Orlando S., Long Beach, Calif. Shoe-button remover. No. 1,422,947; July 18.
 Ellery, James B., Erie, Pa., and A. Drumtra, Binghamton, N. Y. Fire-extinguishing material. No. 1,435,957; Nov. 21.
 Ellin, Nicholas A., assignor to Ekelund Brothers, Providence, R. I. Clasp. No. 1,440,068; Dec. 26.
 Elliot Frog & Switch Company. (See Fairback, Dickson, assignor.)
 Elliott, A. Harlan, et al. (See Anderson, Roy H., assignor.)
 Elliott, Albert G., and J. Southern, assignors to Rolls-Royce Limited, Derby, England. Valve mechanism for internal-combustion engines. No. 1,411,208; Mar. 28.
 Elliott, Alexander D., Viola, Ill., assignor to A. Stein & Company, Chicago, Ill. Folding machine. No. 1,420,474; June 20.
 Elliott, Alexander D., Viola, Ill., assignor to A. Stein & Company, Chicago, Ill. Folding machine. No. 1,420,475; June 20.
 Elliott, Carlton E. (See Elliott, John L. and C. E.)
 Elliott, Charles M., Missler, Kans. Driving attachment for thrashers. No. 1,430,440; Sept. 26.
 Elliott, Clinton, New York, N. Y. Coating candies. No. 1,406,628; Feb. 14.
 Elliott Company. (See Graham, Harold M., assignor.)
 Elliott, Dargan P., Rimini, S. C. Machine for catching and destroying boll weevils. No. 1,405,573; Feb. 7.
 Elliott, Edward R., assignor to L. Free, San Francisco, Calif. Toothbrush. No. 1,417,811; May 30.
 Elliott, Felix A., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic bath. No. 1,411,687; Apr. 4.
 Elliott-Fisher Co. (See Halle, Hiram J., assignor.)
 Elliott-Fisher Company. (See Foothorap, Harry A., assignor.)
 Elliott, Francis M., Gardena, Calif. Traffic signal for motor vehicles. No. 1,415,817; May 9.
 Elliott, George E., Baltimore, Md. Radiator. No. 1,420,917; June 27.
 Elliott, George R., Ecorse, Mich. Mold for concrete channels and floors. No. 1,407,737; Feb. 28.
 Elliott, Howard A., Altoona, Pa. Pressing device. No. 1,425,460; Aug. 8.
 Elliott, Irvin. (See Baker, R. E., Ford, and Elliott.)
 Elliott, J. and W. A., Company. (See Richmond, Robert E., assignor.)
 Elliott, James P., deceased, Oak Park, Ill. M. B. Elliott, executrix. Making insulating and brine and waterproof material. No. 1,406,174; Feb. 14.
 Elliott, James P., deceased, Chicago, Ill.; Mary B. Elliott, executrix. Method of and apparatus for manufacturing sheets of plastic and fibrous material. No. 1,411,330; Apr. 4.
 Elliott, John L., Silver, and C. E. Elliott, Rimini, S. C. Woven-wire fence. No. 1,434,051; Oct. 31.
 Elliott, John M., Silver, S. C. Wagon standard. No. 1,412,106; Apr. 11.
 Elliott, Mary B., executrix. (See Elliott, James P.)
 Elliott, Otto A. (See Fetzner, W., Freres, and Elliott.)
 Elliott, Percy M., Chicago, Ill. Car-door top guide. No. 1,421,431; July 4.
 Elliott, Thomas, assignor to The Cincinnati Car Company, Cincinnati, Ohio. Doorway control or gate for use in railway cars. No. 1,413,840; Apr. 25.
 Elliott, Thomas H., Selma, Calif. Fruit-pitting machine. No. 1,432,282; Oct. 17.
 Elliott, William B. (See Bennett, A. M., Elliott, and O'Brien.)
 Elliott, William B., and W. O'Brien, Westfield, N. J., assignors, by mesne assignments, to Burke Electric Company. Constant-current arc-welding system. No. 1,412,463; Apr. 11.
 Elliott, William E., Struthers, Ohio. Gas-producing apparatus. No. 1,430,633; Oct. 3.
 Elliott, William E., Grand Rapids, Mich., assignor to American Button & Fastener Co., Augusta, Me. Attaching machine. No. 1,410,559; Mar. 28.
 Elliott, William S., Pittsburgh, Pa. Barometric condenser. No. 1,427,792; Sept. 5.
 Elliott, Winfred W., Johnson City, assignor to himself and A. H. Shear, Binghamton, N. Y. Flexible shaft terminal. No. 1,433,537; Oct. 31.
 Ellis, Alfred B., Ventura, Calif. Sealing driven wells. No. 1,404,353; Jan. 24.
 Ellis, Alfred B., Moran, Tex. Rotary bit. No. 1,411,772; Apr. 4.
 Ellis, Carleton, Montclair, N. J. Cereal and fruit beverage. No. 1,414,557; May 2.
 Ellis, Carleton, Montclair, N. J. Edible product and making same. No. 1,417,893; May 30.
 Ellis, Carleton, Montclair, N. J. Catalyzer for hydrogenation and the preparation thereof. No. 1,426,629; Aug. 22.
 Ellis, Carleton, Montclair, N. J. Shortening agent. No. 1,429,573; Sept. 19.
 Ellis, Carleton, Montclair, N. J., assignor to Chadeloid Chemical Company. Paint and varnish remover. No. 1,406,175; Feb. 14.
 Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Cloth-tinting composition and tinting cloth. No. 1,412,014; Apr. 4.
 Ellis, Carleton, Montclair, N. J., assignor to New Jersey Testing Laboratories. Fuel and making same. No. 1,412,238; Apr. 11.
 Ellis, Carleton, Montclair, N. J., assignor, by mesne assignments, to Standard Oil Company. Cracking oils under pressure. No. 1,415,232; May 9.
 Ellis, Carleton, Montclair, N. J., assignor, by mesne assignments, to S. B. Hunt, trustee, Mt. Kisco, N. Y. Oxidizing olefines, etc. No. 1,418,368; June 6.
 Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Producing potassium compounds. No. 1,435,593; Nov. 14.
 Ellis, Carleton, and B. V. T. Stewart, Montclair, N. J. Manufacture of arsenic acid. No. 1,415,323; May 9.
 Ellis, Charles C., Chattanooga, Tenn. Amalgamating apparatus. No. 1,411,773; Apr. 4.
 Ellis, Claude, Springville, N. Y. Window screen and sash locker. No. 1,425,515; Aug. 15.
 Ellis, Evelyn N., Adelbott, Iowa. Combined curtain and portiere hanger. No. 1,436,702; Nov. 28.
 Ellis-Foster Co. (See Weber, Harry M., assignor.)
 Ellis-Foster Company. (See Ellis, Carleton, assignor.)
 Ellis-Foster Company. (See Rabinovitz, Louis, assignor.)
 Ellis, Fred, Salem, Oreg. Centrifugal casting machine. No. 1,436,756; Nov. 28.
 Ellis, Frederick A., Jr., London, England. Detachable wheel for automobiles. No. 1,421,189; June 27.
 Ellis, Frederick O. (See Taylor, S. E., Ellis, and Archer.)
 Ellis, George H., St. Paul, Minn. Making lath board. No. 1,437,503; Dec. 5.
 Ellis, George R., Cincinnati, Ohio. Heel-breast shank-sanding device. No. 1,406,357; Feb. 14.
 Ellis, Harry E., Jacksonville, Fla. Apparatus for producing ozone. No. 1,417,046; May 23.
 Ellis, Herbert R., Fredericksburg, Va. Card and sign or poster painter's workbench. No. 1,423,201; July 18.
 Ellis, James G., Columbus, Miss. Filter. No. 1,433,357; Oct. 24.
 Ellis, John F., assignor of one-half to M. J. Ellis, Washington, D. C. Razor-strop-connecting device. No. 1,414,267; Apr. 25.
 Ellis, John H., Benedict, Kans. Extensible arm. No. 1,411,480; Apr. 4.
 Ellis, John T., and O. A. Kern, Nashville, Tenn. Explosive-engine attachment. No. 1,417,308; May 23.
 Ellis, Marie J. (See Ellis, John F., assignor.)
 Ellis, Ridsdale, Oak Park, Ill. Ice manufacture. No. 1,415,325; May 9.
 Ellis, Ridsdale, Oak Park, Ill. Separating process. No. 1,425,185; Aug. 8.
 Ellis, Ridsdale, Oak Park, Ill. Separating process. No. 1,425,186; Aug. 8.
 Ellis, Ridsdale, Oak Park, assignor of five per cent to P. Carpenter, Chicago, Ill. Separating process. No. 1,425,187; Aug. 8.
 Ellis, Robert M., Port Alberni, British Columbia, Canada. Churn. No. 1,408,994; Mar. 7.
 Ellis, Samuel F., Level Land, S. C. Churn. No. 1,434,331; Oct. 31.
 Ellis, William H., and J. Koenig, Two Rivers, Wis. Percolator. No. 1,438,639; Dec. 12.
 Ellison, Edward H., Jamestown, N. Y. Pedal accelerator for automobiles. No. 1,408,572; Mar. 7.
 Ellithorpe, Gilbert S., Chicago, Ill., assignor to The Bac-Lite Corporation. Tail light. No. 1,431,639; Oct. 10.
 Ellsworth, John T., Park City, Utah. Recovering zinc from complex ores. No. 1,429,330; Sept. 19.
 Ellsworth, John T., Park City, Utah. Recovery of zinc. No. 1,435,703; Nov. 14.
 Elmen, Gustaf W., Leonia, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Magnetic core and making the same. No. 1,403,305; Jan. 10.
 Elmendorf, Armin, Chicago, Ill. Method of and apparatus for bending wooden sheets. No. 1,409,689; Mar. 14.
 Elmendorf, Armin, Madison, Wis. Plywood disk wheel. No. 1,413,906; Apr. 25.
 Elmendorf, Armin, Madison, Wis. Tearing tester. No. 1,423,841; July 25.
 Elmendorf, Armin, Chicago, Ill. Tearing tester. No. 1,423,842; July 25.
 Elmendorf, Armin, Chicago, Ill. Veneered pulpboard and making the same. No. 1,435,594; Nov. 14.
 Elmendorf, Armin, Madison, Wis. Manufacturing plural-layer structures. No. 1,438,429; Dec. 12.

Alphabetical list of patentees—Continued.

- Elmendorf, Armin, Madison, Wis., assignor to Haskellite Manufacturing Corporation. Method of and apparatus for gluing sheets edge to edge. No. 1,428,765; Sept. 12.
- Elmendorf, Armin, Madison, Wis., assignor to Haskellite Manufacturing Corporation. Molding panels. No. 1,434,651; Nov. 7.
- Elmendorf, Armin, Madison, Wis., assignor to Haskellite Manufacturing Corporation. Machine for gluing strips edge to edge. No. 1,436,023; Nov. 21.
- Elmore, Guy H., Swartmore, Pa. Centrifugal pump. No. 1,411,812; May 30.
- Elmore, John T., Jacksonville, Fla. Burial vault. No. 1,411,531; Apr. 4.
- Elmore, Richard P., Sulphur, Okla. Attachment for spectacles. No. 1,429,854; Sept. 19.
- Elmstrom, Anselm E., Malden, Mass. Combined shoe stretcher and tree. No. 1,415,537; May 9.
- Elmstrom, Anselm E., Malden, Mass. Shoe stretcher. No. 1,428,423; Sept. 5.
- Elmli, John, Kansas City, Mo. Window construction. No. 1,414,476; May 2.
- Elphick, Percy, Balcombe, England. Means for warming the radiators of motor cars. No. 1,433,358; Oct. 24.
- Elrod, Benjamin S., Omaha, Nebr., assignor, by mesne assignments, to Omaha Trust Company. Making printers' leads, slugs, and rules. No. 1,438,951; Dec. 19.
- Elrod, Henry E., Dallas, Tex. Cloth-pilating machine. No. 1,402,584; Jan. 3.
- Elrod, Henry E., Dallas, Tex. Sewage-disposal plant and system. No. 1,439,406; Dec. 19.
- Elrod, Henry E., Dallas, Tex. Sewage-disposal plant. No. 1,439,407; Dec. 19.
- Elrod, Milton, Indianapolis, Ind., assignor to Warriner Manufacturing Company. Filter. No. 1,422,190; July 11.
- Elsaesser, Emil, Langerfeld, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Spinning viscous liquids in flowing feeding liquids. No. 1,414,076; Apr. 25.
- Else, Walter J., Grand Island, Nebr. Dispensing apparatus. No. 1,414,777; May 2.
- Elsea, Clarence C., Ridley Park, Pa. Burglar alarm. No. 1,439,876; Dec. 26.
- Elsen, Daniel G., Brooklyn, N. Y. Embossed printing. No. 1,438,815; Dec. 12.
- Elsenbast, Arthur S., and W. L. Jordan, New York, N. Y. Insulating cement or mortar. No. 1,421,192; June 27.
- Elsey, William S., Cairo, Ill. Headlight. No. 1,437,731; Dec. 5.
- Elsinger, Francis W., Hartford, Wis. Adjustable link belt. No. 1,404,842; Jan. 31.
- Eltag, Charles A., and J. M. Thoennes, Milwaukee, Wis. Leveling device. No. 1,403,676; Jan. 17.
- Eltgroth, John N., Fairmont, Minn. Boot protector. No. 1,422,683; July 11.
- Eltcher, Alois F. (See Puter, S. A. D., and Eltcher.)
- Elvers, Hans C., assignor to Gisholt Machine Company, Madison, Wis. Chuck. No. 1,406,451; Feb. 14.
- Elvidge, Morris H., New York, N. Y. Roofing material. No. 1,414,778; May 2.
- Elvidge, Morris H., New York, N. Y. Roofing material. No. 1,434,332; Oct. 31.
- Elvin Mechanical Stoker Company. (See Fahnstock, Adam B., assignor.)
- Elwell, Cyril F. (See Lane, Charles J., assignor.)
- Elwell-Parker Electric Company. (See Cochran, Clyde E., assignor.) (Reissue.)
- Elwell-Parker Electric Company, The. (See Goldrick, Albert R., assignor.)
- Elwert, Frederick H., assignor to The Seng Company, Chicago, Ill. Flour-bin holder. No. 1,430,960; Oct. 3.
- Ely, George B., Olivet, Mich., assignor of two-thirds to W. H. Ortmann, Milwaukee, Wis. Clothesline fastener. No. 1,420,370; June 20.
- Ely, Sidney F. (See Ericson Smith, Helen, assignor.)
- Ely, Walter S., Inc. (See Ely, Walter S., assignor.)
- Ely, Walter S., assignor to Walter S. Ely, Inc., New York, N. Y. Wind-balanced door. No. 1,438,477; Dec. 12.
- Elyria Enameled Products Company, The. (See Donauer, Max, assignor.)
- Elyria Enameled Products Company, The. (See Slough, Frank M., assignor.)
- Elyria Iron & Steel Co., The. (See Slife, Frank L., assignor.)
- Elyria Iron and Steel Company, The. (See Johnston, Gustave V., assignor.)
- Elyria Iron & Steel Company, The. (See McKee, Willis, assignor.)
- Elyria Iron & Steel Company, The. (See Sessions, Frank L., assignor.)
- Elzey, Edgar P., Parkersburg, W. Va. Folding chair. No. 1,430,732; Oct. 3.
- Elzey, Edgar P., Parkersburg, W. Va. Motor-vehicle steering wheel. No. 1,430,733; Oct. 3.
- Embanks, Fred, assignor to Anastazy Koszyczarek, Cleveland, Ohio. Combined muffler and deodorizer for explosive engines. No. 1,421,432; July 4.
- Emerick Mill Co. (See Gay, Robert M., assignor.)
- Emerick, William H., Chicago, Ill. Door. No. 1,405,507; Feb. 7.
- Emerson, Adaline, New York, N. Y. Lady's garment. No. 1,402,404; Jan. 3.
- Emerson-Brantingham Company. (See Clay, Harry C., assignor.)
- Emerson-Brantingham Company. (See Davis, Calvin R., assignor.)
- Emerson-Brantingham Company. (See Thomson, Byron C., assignor.)
- Emerson-Brantingham Company. (See Traphagen, Harry K., assignor.)
- Emerson-Brantingham Company. (See Waterman, L. E., Traphagen, and Waterman, assignors.)
- Emerson-Brantingham Company. (See Waterman, Lewis E., assignor.)
- Emerson Electric Manufacturing Company, The. (See Finch, Herbert L., assignor.)
- Emerson, Ernest, Chicago, Ill., assignor to Wirebounds Patents Company, Bittery, Me. Machine for use in making boxes. No. 1,432,019; Oct. 17.
- Emerson, Fred S. (See Emerson, Loender C. and F. S.)
- Emerson, Joseph W., Salida, Colo. Gypsum wall board. No. 1,439,954; Dec. 26.
- Emerson, Kenneth W., Honolulu, Hawaii. Can-feeding apparatus. No. 1,428,883; Sept. 12.
- Emerson, Lawrence, Percy, Iowa. Tractor plow. No. 1,422,350; July 11.
- Emerson, Loender C. and F. S., Los Angeles, Calif. Door latch. No. 1,407,395; Feb. 21.
- Emerson Phonograph Co. (See Emerson, V. H., and Wheelan, assignor.)
- Emerson Phonograph Company. (See Emerson, Victor H., assignor.)
- Emerson, Victor H., assignor to Emerson Phonograph Company, Inc., New York, N. Y. Sound record and producing the same. No. 1,416,342; May 16.
- Emerson, Victor H., New York, N. Y., assignor to Emerson Phonograph Company, Inc., Laminated talking-machine record. No. 1,423,517; July 25.
- Emerson, Victor H., and R. M. B. Wheelan; said Emerson assignor to Emerson Phonograph Co., Inc., New York, N. Y. Means for indicating matter produced on sound records. No. 1,404,194; Jan. 24.
- Emerson, Victor L., Philadelphia, Pa. Conversion of hydrocarbon oils. No. 1,414,400; May 2.
- Emerson, Victor L., Philadelphia, Pa. Liquid-level-controlling device for boilers or stills. No. 1,427,793; Sept. 5.
- Emery, Benjamin F., Jones Township, Union County, Iowa. Wire-mending and fence tool. No. 1,434,652; Nov. 7.
- Emery, Elias J., Lynn, Mass. Vehicle tire. No. 1,431,785; Oct. 10.
- Emery, Elizabeth R., Topeka, Kans. Asbestos ironing pad. No. 1,402,154; Jan. 3.
- Emery, Frederick L. (See Donahue, George, assignor.)
- Emery, Harvey L., Worthington, assignor to Self Lay Block & Machine Company, Vincennes, Ind. Building block. No. 1,422,258; July 11.
- Emery, James A. (See Jones, P. N., and Emery.)
- Emery, James H., Inwood Park, N. Y. Artificial fruit and producing same. No. 1,436,024; Nov. 21.
- Emery, Marshall E. and W. J. Fleischauer, Detroit, Mich. Collapsible hand truck. No. 1,409,838; Mar. 14.
- Emet, Matts L., Springfield, Mass. Universal joint and making the same. No. 1,421,072; June 27.
- Emley, Earl T., Brooklyn, N. Y., assignor to Wales Adding Machine Company, Wilkes-Barre, Pa. Paper-carriage-return mechanism. No. 1,435,518; Nov. 14.
- Emme, Henry F., assignor to The Easiest Way Manufacturing Company, Sandusky, Ohio. Washing machine. No. 1,440,140; Dec. 26.
- Emmer, Mike, and W. Nathanson, Chicago, Ill. Radiator core. No. 1,419,111; June 6.
- Emmert, Frederick L., Cincinnati, Ohio. Preparing liquid soap. No. 1,432,102; Oct. 17.
- Emmert, Gus. (See Tischer, Edward R., assignor.)
- Emmert Manufacturing Company. (See Emmert, Samuel B., assignor.)
- Emmert, Samuel B., assignor to Emmert Manufacturing Company, Inc., New York, N. Y. Tape-delivering machine. No. 1,431,575; Oct. 10.
- Emmons, Kenneth L., Wilmington, Del. Oven for vulcanizing, baking, and other uses. No. 1,420,371; June 20.
- Emond, Jean C., Hawkesbury, Canada. Pulley coupling for clotheslines. No. 1,434,377; Nov. 7.
- Emory, Eugene L., Portsmouth, Va. Automobile radiator. No. 1,408,995; Mar. 7.
- Empfield, Berion C. (See Siensen, Jurgen, assignor.)
- Empire Seating Co., Inc. (See Thompson, Archibald H., assignor.) (Reissue.)
- Emrick, Frank C., Kalamazoo, Mich. Insulating material and manufacturing the same. No. 1,426,163; Aug. 15.
- Emsley, Amos. (See Trustman, Solomon, assignor.)
- Emslie, David W., Cleveland, Ohio. Die and seal press. No. 1,434,598; Nov. 7.
- Enache, Cocu, Dallas, Tex. Manually-propelled vehicle. No. 1,410,245; Mar. 21.
- Enard, Hans, Pittsburgh, Pa. Power transmission and mechanism therefor. No. 1,417,894; May 30.
- Enck, Schuyler C. (See Dunmire, C. W., and Enck.)
- Ende, Edwin A. (See Norton, G. F., and Ende.)
- Enderle, Frank X., Los Angeles, Calif. Concrete burial-vault construction. No. 1,404,944; Jan. 31.
- Enders, Hugo, Lehigh, Pa., assignor to The Lehigh Corporation, New York, N. Y. Zero-setting device for calculating machines. No. 1,413,713; Apr. 25.

Alphabetical list of patentees—Continued.

- Enders, Hugo, Belleville, N. J., assignor to The Lehigh Corporation, New York, N. Y. Frictionally-operated full-stroke mechanism. No. 1,414,728; May 2.
- Enders, Hugo, Belleville, N. J., assignor, by mesne assignments, to The Lehigh Corporation, New York, N. Y. Calculating machine. No. 1,414,729; May 2.
- Enders, Hugo, Belleville, N. J., assignor to The Lehigh Corporation, New York, N. Y. Digit wheels for calculating machines. No. 1,414,730; May 2.
- Endicott, Thomas P., Atlantic City, N. J. Dry cleaning and sterilizing process. No. 1,426,053; Aug. 15.
- Endisch, Joseph A. (See Schultz, Frank P., assignor.) Endless Belt Corporation. (See Grupe, William F., as signor.)
- Endlich, Edward P., Cumberland, Wis. Hose draining and drying reel. No. 1,427,273; Aug. 29.
- Endres, Lawrence M. and M. A., Springfield Corners, Wis. Cartridge magazine. No. 1,405,508; Feb. 7.
- Endres, Lawrence M. and M. A., Dane, Wis. Splash lubricating system. No. 1,420,083; June 20.
- Endres, Michael A. (See Endres, Lawrence M. and M. A.)
- Enquist, Erik W., Brooklyn, N. Y. Glass and making the same. No. 1,403,752; Jan. 17.
- Engberg, Laurent, Barcelona, Spain. Dental clasp. No. 1,425,844; Aug. 15.
- Engberg, Waldemar, Anchorage, Alaska. Tool. No. 1,430,497; Sept. 26.
- Engel, Adolph A. (See Manning, T. A., and Engel.)
- Engel, Albert W., Chicago, Ill. Loose-leaf binder. No. 1,408,870; Mar. 7.
- Engel, Albert W., Chicago, Ill. Sheet-perforating tool. No. 1,411,774; Apr. 4.
- Engel, Godfrey, sr., Brooklyn, assignor to Buffalo Foundry & Machine Co., Buffalo, N. Y. Saccharine trap. No. 1,415,818; May 9.
- Engel, Godfrey, sr., Brooklyn, assignor to Buffalo Foundry & Machine Co., Buffalo, N. Y. Casting process. No. 1,423,654; July 25.
- Engel, Henri, Hatch End, England. Apparatus for the extraction of oils and the like. No. 1,415,433; May 9.
- Engel, John P., Brooklyn, N. Y. Passenger conveyance. No. 1,432,681; Oct. 17.
- Engelbrekt, Gustaf, deceased; M. Engelbrekt, administratrix, assignor of one-fourth to E. A. Borgstrom, one-fourth to J. A. Anderson, and one-fourth to F. Henderson, Superior, Wis. Drill bit and lubricator. No. 1,404,016; Jan. 17.
- Engelbrekt, Mary, administratrix. (See Engelbrekt, Gustaf.)
- Engelhardt, William B., Chicago, Ill. Electric drill. No. 1,434,202; Oct. 31.
- Engelke, William D., St. Paul, Minn. Ash handler. No. 1,407,847; Feb. 28.
- Engels, Walter, et al. (See Abrams, Arthur J., assignor.)
- Engert, George J., Spokane, Wash. Means for constructing hollow concrete walls. No. 1,437,297; Nov. 28.
- Engholm, Peter, assignor to Clover Leaf Creamery Company, Minneapolis, Minn. Operating mechanism for distributing valves in pasteurizing apparatus. No. 1,431,384; Oct. 10.
- Engineering Development Company. (See Lawrence, Almon R., assignor.)
- Engineering Works, The. (See Kirchman, William, assignor.)
- England, Alexander, Wilkesburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Pump valve. No. 1,417,235; May 23.
- England, David S., Sparta, Tenn. Resilient wheel. No. 1,430,961; Oct. 3.
- England, Frank W., assignor to Illinois Tool Works, Chicago, Ill. Producing spur gears. No. 1,431,155; Oct. 10.
- England, William A., San Francisco, and J. L. Mattingly, Berkeley, assignors to Eng-Skell Company, Inc., San Francisco, Calif. Mixing faucet. No. 1,429,574; Sept. 19.
- Englander, Benjamin B., assignor to The Englander Spring Bed Company, Brooklyn, N. Y. Spring mattress. No. 1,433,876; Oct. 31.
- Englander Spring Bed Company, The. (See Englander, Benjamin B., assignor.)
- Englander Spring Bed Company, The. (See Kreuzkamp, August J., assignor.)
- Englander Spring Bed Company. (See Lawson, William E., assignor.)
- Engleson, John E., Kristinehamn, Sweden. Apparatus for operating the starting devices of water turbines or the like. No. 1,431,221; Oct. 10.
- English, Andrew J., assignor to G. J. Uckotter, Cincinnati, Ohio. Valve. No. 1,427,680; Aug. 29.
- English, Fred S., New London, Conn. Feed table for printing presses. No. 1,420,084; June 20.
- English, John D., Watertown, S. Dak. Chain coupling. No. 1,434,052; Oct. 31.
- English, John W., Helena, Ga. Comb attachment. No. 1,440,069; Dec. 26.
- English, Samuel, Pittsburgh, Pa. Track terminal. No. 1,407,396; Feb. 21.
- English, Thomas A., North Albany, N. Y. Staff or handle connection. No. 1,416,626; May 16.
- English & Mersick Co., The. (See Kaimer, R. V., and Ritter, assignors.)
- English & Mersick Co., The. (See Kaimer, Richard V., assignor.)
- Englund, Ernst E., assignor to D. M. Sechler Implement & Carriage Company, Moline, Ill. Land marker for planters. No. 1,432,986; Oct. 24.
- Englund, Ernst E., assignor to D. M. Sechler Implement & Carriage Company, Moline, Ill. Checkrow corn planter. No. 1,432,987; Oct. 24.
- Englund, Ernst E., assignor to D. M. Sechler Implement & Carriage Company, Moline, Ill. Planter. No. 1,439,877; Dec. 26.
- Englund, Gustaf A., assignor to The Jacobs Manufacturing Company, Hartford, Conn. Chuck. No. 1,417,981; May 30.
- Englund, Knut E., Brooklyn, assignor to Robert H. Gay, New York, N. Y. Adjustable band. No. 1,414,731; May 2.
- Englund, William. (See Peel, S. K., and Englund.)
- Eng-Skell Company. (See England, W. A., and Mattingly, assignors.)
- Engstrand, Gunnar C., Brooklyn, N. Y. Barge. No. 1,403,899; Jan. 17.
- Engstrand, Gunnar C., Brooklyn, N. Y. Floating dry dock. No. 1,412,852; Apr. 18.
- Engstrom, Lars, Seattle, Wash. Sanding device for automobiles. No. 1,429,855; Sept. 19.
- Engstrom, Otto L., South Bend, Ind. Combination rule. No. 1,440,284; Dec. 26.
- Engstrom, Otto L., and H. C. Nelson, South Bend, Ind. Truck. No. 1,440,285; Dec. 26.
- Ennes, Charles E. (See McDonald, C. D., and Ennes.)
- Ennis, Hugh R., Joplin, Mont. Shock and hay loader. No. 1,431,640; Oct. 10.
- Ennis, Lawrence, Linthorpe, England, and A. Jack, Motherwell, Scotland. Overhead traveling crane. No. 1,415,163; May 9.
- Eno, George W. Rubber Company. (See Shawger, William E., assignor.)
- Enos, Edward H., Salem, Mass. Waterproof fabric and making same. No. 1,408,871; Mar. 7.
- Enos, Henry B., Santa Maria, Calif. Traction device. No. 1,432,167; Oct. 17.
- Ensele, William, Grenada, Calif. Peach-pitting machine. No. 1,403,852; Jan. 17.
- Ensign, Emory S., Rockford, Ill. Lock washer. No. 1,427,946; Sept. 5.
- Ensign, Emory S., Rockford, assignor to Spengler Loomis Mfg. Co., Chicago, Ill. Paper-binding clip. No. 1,435,917; Nov. 21.
- Ensign, Orville H., Pasadena, Calif. Method of and means for producing explosive mixtures of air and fuel. No. 1,408,277; Feb. 28.
- Ensign, Orville H., Pasadena, Calif. Art of and means for liquid-fuel conversion. No. 1,408,278; Feb. 28.
- Enslin, Herbert E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lacing machine. No. 1,429,414; Sept. 19.
- Ensten, Louis H., Cleveland, Ohio. Headwear. No. 1,414,558; May 2.
- Enstrom, Edward, and E. A. Hilding, assignors to Nordiska Nav Aktiebolaget, Motala, Sweden. Coaster brake. No. 1,412,393; Apr. 11.
- Enterprise Manufacturing Company, The. (See Adams, Walter L., assignor.)
- Enterprise Manufacturing Company, The. (See Pfueger, C. T., and Adams, assignors.)
- Enterprise Railway Equipment Company. (See Campbell, Argyle, assignor.)
- Enterprise Railway Equipment Company. (See Miner, William H., assignor.)
- Enterprise Railway Equipment Company. (See Zimmer, Albert E., assignor.)
- Entler, Viktor, Bremen, Germany. Aeroplane. No. 1,432,283; Oct. 17.
- Enycart, Martin P., Girard, Ohio. Trolley harp. No. 1,419,365; June 13.
- Enzenauer, Stephen C., Bancroft, Idaho. Nut lock. No. 1,434,737; Nov. 7.
- Eppenstein, Otto, assignor to the Firm of Carl Zeiss, Jena, Germany. Telemeter system. No. 1,414,779; May 2.
- Epperson, Landy D., Mount Washington, Mo. Compressing mechanism for rotary internal-combustion motors. No. 1,404,354; Jan. 24.
- Eppes, Boyd S. (See Brooks, W. E., and Eppes.)
- Epping, Joseph, Quincy, Ill. Curing flesh meats. No. 1,435,057; Nov. 7.
- Eppleman, Charles C., and W. E. Callahan, Gloucester, N. J. Vaginal syringe. No. 1,439,662; Dec. 19.
- Eppler, Andrew, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Welt-butting machine. No. 1,411,481; Apr. 4.
- Eppler, John. (See Walter, Edward H., assignor.)
- Eppler, John, Philadelphia, Pa. Pattern mechanism for machines for knitting lacework. No. 1,405,769; Feb. 7.
- Eppley, Charles S., York, Pa., assignor to New Ideal Power Company. Chemical composition. No. 1,417,047; May 23.
- Epps, Frank A., assignor to Foamite Firefoam Company, New York, N. Y. Fire-extinguishing system. No. 1,421,433; July 4.
- Epstein, Abraham N., New York, N. Y., assignor of one-half to C. Marx, Brooklyn, N. Y. Decorated article. No. 1,407,461; Feb. 21.

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- Epstein, Albert K., Chicago, Ill. Preserved eggs and process therefor. No. 1,426,559; Aug. 22.
- Epstein, Alvin N., Chicago, Ill. Carton for playing cards. No. 1,404,945; Jan. 31.
- Epstein, Hirsch, J. J. Mitnick, and J. M. Bernstein, Chicago, Ill. Vaporizer. No. 1,402,585; Jan. 3.
- Epstein, Nathan, Boston, Mass. Impact-producing implement. No. 1,403,753; Jan. 17.
- Epworth, Charles E., Brooklyn, N. Y. Gas heater. No. 1,421,190; June 27.
- Equipment Device Company. (See Davis, Elnino D., assignor.)
- Equipment Devices Company. (See Kortenhoeven, Peter, assignor.)
- Equitable Trust Company of New York, trustee. (See Kaufmann, F. J., and Marsden, assignors.)
- Erb, Christ, Bellevue, Wis. Safety starting crank. No. 1,430,064; Sept. 26.
- Erb, Peter, The Plains, Ohio. Clamp. No. 1,434,738; Nov. 7.
- Erdahl, Bernard F., Duluth, Minn. Rendering concrete resistant to waters charged with soluble compounds and product thereof. No. 1,415,324; May 9.
- Erdahl, Bernard F., Duluth, Minn. Producing gelling metal alginates and product derived therefrom. No. 1,415,849; May 9.
- Erdahl, Bernard F., Duluth, Minn. Alginate composition and article. No. 1,415,850; May 9.
- Erdiu, May. (See de Laitee, Leopold B., assignor.)
- Erdle, Reiner W., Weehawken, N. J., assignor to The Cold Light Manufacturing Company. Self-luminous chain pendant. No. 1,405,770; Feb. 7.
- Erdle, Reiner W., Weehawken, N. J., assignor to The Cold Light Manufacturing Company. Manufacturing self-luminous devices. No. 1,410,741; Mar. 28.
- Erdle, Reiner W., New York, N. Y., assignor to The Cold Light Manufacturing Company. Device for measuring and feeding luminous materials. No. 1,418,292; June 6.
- Erdle, Reiner W., New York, N. Y., assignor to Radium Dial Company, Pittsburgh, Pa. Apparatus for facilitating the application of luminous material. No. 1,419,662; June 13.
- Erdle, Reiner W., New York, N. Y., assignor to Radium Dial Company, Pittsburgh, Pa. Stenciling device. No. 1,419,663; June 13.
- Erdle, Reiner W., New York, N. Y., assignor to The Cold Light Manufacturing Company. Forming glass articles and the apparatus for carrying out the same. No. 1,439,698; Dec. 26.
- Erdmann, Herman R. (See Poth, J. C. and Erdmann.)
- Erdwins, John C. (See Erdwins, William and J. C.)
- Erdwins, William and J. C. Harrisonville, Mo. Resilient wheel. No. 1,419,242; June 13.
- Erhard, Robert P., Juniata, Pa. Hydroplane. No. 1,424,811; Aug. 8.
- Erhardt, Oscar P., West Haven, assignor to The A. C. Gilbert Company, New Haven, Conn. Beverage mixer. No. 1,407,789; Feb. 28.
- Erhardt, Oscar P., West Haven, assignor to The A. C. Gilbert Company, New Haven, Conn. Portable electric motor. No. 1,426,367; Aug. 22.
- Erhardt, Robert W., and J. Schroder, Cincinnati, Ohio. Bag or sack holder. No. 1,439,878; Dec. 26.
- Erick, Emil W., Canby, Minn. Siren. No. 1,428,684; Sept. 12.
- Erickson, Albert, Chicago, Ill., assignor to Splitdorf Electrical Company, Newark, N. J. Impulse-starter coupling. No. 1,411,080; Mar. 28.
- Erickson, Albert N., Elmhurst, N. Y., assignor to Union Carbide & Carbon Research Laboratories, Inc. Removing phosphorus from vanadium solutions. No. 1,421,191; June 27.
- Erickson, Albert W., New York, N. Y. Printing rule. No. 1,405,570; Feb. 7.
- Erickson, Alfred S., Ames, Iowa. Insect trap. No. 1,405,822; Feb. 7.
- Erickson, Amos, Keota, Colo. Calf weaner. No. 1,438,027; Dec. 5.
- Erickson, Andrew, Inver Grove, Minn. Tack puller and driver. No. 1,410,801; Mar. 28.
- Erickson, Anton E., Phillipsburg, Pa. Attachment for aeroplanes. No. 1,423,789; July 25.
- Erickson, Arthur F., Portland, Oreg. Valve-operating device. No. 1,439,231; Dec. 19.
- Erickson, Axel F., assignor to the Allsteelquip Company, Aurora, Ill. Stacking tote box. No. 1,420,992; June 27.
- Erickson, Benjamin, et al. (See Erickson, Erick A., assignor.)
- Erickson, Charles A., Springville, N. Y. Saddle for radiators. No. 1,411,611; Apr. 4.
- Erickson, Charles A., Chicago, Ill. Sales-check holder and notching device. No. 1,419,620; June 13.
- Erickson, Charles A., Chicago, Ill. Sales-check holder and punch. No. 1,419,621; June 13.
- Erickson, Charles A., Chicago, Ill. Combined holder and punch for checks. No. 1,431,641; Oct. 10.
- Erickson, Charles E., Laredo, Tex. Pencil holder. No. 1,407,738; Feb. 28.
- Erickson, Daniel E., Mamaroneck, assignor to Todd Shipyards Corporation, New York, N. Y. Oil-burning apparatus. No. 1,412,023; Apr. 4.
- Erickson, Edward, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stitch and upper cleaning machine. No. 1,402,752; Jan. 10.
- Erickson, Edward, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. No. 1,425,516; Aug. 15.
- Erickson, Erick A., Iron River, Mich., assignor of one-third to B. Erickson and one-third to J. Erickson, Iron River, Mich. Fishing reel. No. 1,432,988; Oct. 24.
- Erickson, Erick P., Grove City, Minn. Swinging faucet. No. 1,403,396; Jan. 10.
- Erickson, Frederic W., New York, N. Y. Combined electric switch and electric fuse. No. 1,414,011; Apr. 25.
- Erickson, Freeman J., Minneapolis, Minn. Storage-battery insulator. No. 1,439,155; Dec. 19.
- Erickson, Ida M., Seattle, Wash. Fastener. No. 1,402,405; Jan. 3.
- Erickson, James V. E., assignor to Federal Sign System (Electric), Chicago, Ill. Gearing. No. 1,405,509; Feb. 7.
- Erickson, John, et al. (See Erickson, Erick A., assignor.)
- Erickson, John, assignor to Automatic Electric Company, Chicago, Ill. Relay. No. 1,424,346; Aug. 1.
- Erickson, John A. P., Northland, Minn. Candle. No. 1,420,476; June 20.
- Erickson, John E., St. Paul, Minn. Automobile lock and switch. No. 1,408,996; Mar. 7.
- Erickson, John E., St. Paul, Minn., assignor to Automatic Seating Company, Superior, Wis. Automatic folding seat construction. No. 1,428,018; Sept. 5.
- Erickson, John O., Los Angeles, Calif. Hook. No. 1,439,302; Dec. 19.
- Erickson, John S., Waukegan, Ill. Combination lock. No. 1,406,629; Feb. 14.
- Erickson, Julius, assignor to J. B. La Pierre, Chicago, Ill. Rim for steering wheels. No. 1,421,434; July 4.
- Erickson, Ole. (See Johnson, Paul W., assignor.)
- Erickson, Otto H., Minneapolis, Minn. Artificial leg. No. 1,405,191; Jan. 31.
- Erickson, Theodore, Charlevoix, Mich. Sleeve puller. No. 1,403,754; Jan. 17.
- Erickson, William, San Francisco, Calif. Bolting-up device. No. 1,413,015; Apr. 18.
- Ericson, Charles G., Toronto, Ontario, Canada. Rail anchor. No. 1,402,852; Jan. 10.
- Ericson, Charles O., Helmetta, N. J. Delivery attachment for presses. No. 1,439,807; Dec. 26.
- Ericson, Douglas and E., Cambridge, Mass. Splash screen for automobiles. No. 1,411,612; Apr. 4.
- Ericson, Eric. (See Ericson, Douglas and E.)
- Ericson, Louis E., assignor to W. S. Rensch, San Diego, Calif. Price-tag holder. No. 1,423,655; July 25.
- Ericson, Oscar A., assignor to W. W. Kimball Company, Chicago, Ill. Double-acting pneumatic motor. No. 1,427,794; Sept. 5.
- Ericson Smith, Helen, Maide Vale, London, assignor of three-fourths to S. F. Ely, London, England. Toilet-powder-applying device or implement. No. 1,431,881; Oct. 10.
- Ericson, Victor G., Waukegan, assignor to Victor Lock Works, North Chicago, Ill. Combination lock. No. 1,402,221; Jan. 3.
- Ericsson Manufacturing Company. (See Möreck, Knut H., assignor.)
- Erie Art Metal Company. (See Bayer, Frank E., assignor.)
- Erik, Emil. (See Berman, Henry, assignor.)
- Erik, Emil, Ossining, assignor of one-fourth to B. Pindek and one-fourth to I. Pindek, Brooklyn, N. Y. Tire valve. No. 1,426,721; Aug. 22.
- Erith, Charles, Sutton, assignor to Erith's Engineering Company, Limited, London, England. Mechanical stoker. No. 1,431,882; Oct. 10.
- Erith's Engineering Company, Limited. (See Erith, Charles, assignor.)
- Erlanger, Charles S., Elberon, N. J., assignor to The B. V. D. Company, New York, N. Y. Underwear. No. 1,402,406; Jan. 3.
- Erman, Mariya, and J. Lamovsék, Milwaukee, Wis. Artificial flower. No. 1,439,539; Dec. 19.
- Erner, William A., Dubuque, Iowa. Speed indicator. No. 1,409,839; Mar. 14.
- Ernest, Ralph D., Detroit, Mich., assignor, by mesne assignments, to B. A. Linderman, Chicago, Ill. Automatic starter and controller. (Reissue.) No. 15,258; Jan. 3.
- Ernest, Thomas R., Chicago, Ill. Gas generator. No. 1,410,393; Mar. 21.
- Erni, Walter, Milwaukee, Wis. Driving mechanism for washing machines. No. 1,422,843; July 18.
- Erni, Walter, Markesan, Wis., assignor, by mesne assignments, to Waterhouse Laundry Machinery & Supply Company, Detroit, Mich. Washing-machine bearing. No. 1,403,306; Jan. 10.
- Ernsdorff, John B. (See Coffey, S. A., and Ernsdorff.)
- Ernst, Friedrich C., New York, N. Y. Umbrella-rib-top retainer. No. 1,405,402; Feb. 7.
- Ernst, Fritz B., Chicago, Ill. Carry-iron arrangement. No. 1,428,685; Sept. 12.
- Ernst, Henry G. (See Ernst, Theodore and H. G.)
- Ernst, Theodore, Bayfield, and H. G. Ernst, Superior, Wis. Combination convertible high chair. No. 1,427,795; Sept. 5.
- Ero Manufacturing Company. (See Miller, Harry W., assignor.)

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- Errett, Thomas A. (See Brown, W. P., Errett, and Brittain.)
- Erskine, Gordon. (See Grace, Edwin B., assignor.)
- Ertter, David, Springfield, assignor of one-half to B. M. Kent, Cleveland, Ohio. Attachment for road rollers. No. 1,404,380; Jan. 24.
- Ertz, George L., New York, N. Y. Tractor mechanism. No. 1,438,228; Dec. 12.
- Ervin, Charles L., Los Angeles, Calif. Method of and apparatus for discharging the waters of reservoirs. No. 1,433,126; Oct. 24.
- Ervin, Charles W., Los Angeles, Calif. Automobile fender. No. 1,435,383; Nov. 14.
- Erwin, David J., Lawrence, Nebr. Harrow attachment. No. 1,402,586; Jan. 3.
- Erwin, James B. and O. R., Milwaukee, Wis., assignors to Foamite Firefoam Company, New York, N. Y. Apparatus for extinguishing fires. No. 1,403,596; Jan. 17.
- Erwin, Lawrence B., New York, N. Y., and B. W. O'Connell, Minneapolis, Minn. Smoker's set. No. 1,430,539; Oct. 3.
- Erwin, Orlando R. (See Erwin, James B. and O. R.)
- Erwin, Orlando R., Forest Hills, assignor to Foamite-Childs Corporation, New York, N. Y. Fire-extinguishing apparatus. No. 1,437,097; Nov. 28.
- Erwin, Orlando R., Forest Hills, assignor to Foamite-Childs Corporation, New York, N. Y. Fire-extinguishing apparatus. No. 1,438,430; Dec. 12.
- Erwin, Orlando R., and C. B. Flory, Forest Hills, assignors to Foamite Firefoam Company, New York, N. Y. Apparatus for extinguishing fires. (Reissue.) No. 15,355; May 16.
- Erwin, Orlando R., and C. B. Flory, assignors to Foamite Firefoam Company, New York, N. Y. Fire-extinguishing apparatus. No. 1,426,368; Aug. 22.
- Erwin, Reiman G., St. Albans, Vt., assignor to International Bituconcrete Company. Plastic composition and making the same. No. 1,409,088; Mar. 7.
- Erwin, Verner E., Lima, Ohio. Game. No. 1,405,988; Feb. 7.
- Erleben, Charles F. (See Kaiser, A. G., Nahirny, and Erleben.)
- Etch, Henry S., New York, N. Y. Antislip armor for cushion tires. No. 1,407,522; Feb. 21.
- Eschbach, Wilhelm, Troisdorf, Germany. Blasting detonator. No. 1,438,431; Dec. 12.
- Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric arc-welding system. No. 1,416,007; May 16.
- Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Discharge electrode for precipitating systems. No. 1,425,637; Aug. 15.
- Eschinger, Edward A., assignor of one-half to J. G. Clemmer, Philadelphia, Pa. Talking machine. No. 1,405,675; Feb. 7.
- Eshelman, Charles W., Newport News, Va. Portable incinerator. No. 1,440,141; Dec. 26.
- Eshelman, Oliver D., and W. F. Boast, Casper, Wyo. Saw. No. 1,423,843; July 25.
- Eshelman, Robert O., Hyde Park, Pa. Pipe wrench. No. 1,440,346; Dec. 26.
- Eskew, Charles E. (See Eskew, F. S. and C. E., and Bragg.)
- Eskew, Forest S., C. C. Bragg, and C. E. Eskew, Huntington, W. Va. Window shade and curtain holder. No. 1,404,104; Jan. 17.
- Eslinger, Melvin B., assignor to Tornado Auto Pump Company, St. Louis, Mo. Pump. No. 1,412,279; Apr. 11.
- Esmith Loom and Fabric Company, Limited. (See Smith, Edward, assignor.)
- Esnault-Pelterie, Robert, Paris, France. Throttle-operating mechanism for explosion motors. No. 1,438,369; Dec. 12.
- Espenschied, Lloyd, Hollis, N. Y., assignor to American Telephone and Telegraph Company. Synchronizing system. No. 1,412,853; Apr. 18.
- Espenschied, Lloyd, Queens, N. Y., assignor to American Telephone and Telegraph Company. Frequency regulator. No. 1,423,518; July 25.
- Espenschied, Lloyd, Hollis, N. Y., assignor to American Telephone and Telegraph Company. Low-frequency amplifier. No. 1,428,156; Sept. 5.
- Espenschied, Lloyd, Hollis, and H. A. Affel, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Means for signaling over multiplex transmission channels. No. 1,428,155; Sept. 5.
- Espenschied, Lloyd, Hollis, and H. A. Affel, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. High-frequency translating circuits. No. 1,438,987; Dec. 19.
- Espenschied, Lloyd, Queens, and H. A. Affel, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. High-frequency translating circuits. No. 1,438,988; Dec. 19.
- Espenschied, Lloyd, Queens, and H. A. Affel, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. High-frequency translating circuits. No. 1,438,989; Dec. 19.
- Espe, Robert, Mount Carroll, Ill. Governor. No. 1,410,742; Mar. 28.
- Esping, Conrad, assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill. Hand lever. No. 1,428,951; Sept. 12.
- Esposito, Antony, Brooklyn, N. Y. Snow or dirt remover. No. 1,430,962; Oct. 3.
- Esselen, Gustavus J., Jr. (See Mork, H. S., and Esselen.)
- Esselen, Gustavus J., Jr., Swampscott, and H. S. Mork, Brookline, assignors to Arthur D. Little, Incorporated, Cambridge, Mass. Cellulose derivative and preparing same. No. 1,425,580; Aug. 15.
- Esselen, Gustavus J., Jr., Swampscott, and H. S. Mork, South Boston, assignors to Arthur D. Little, Incorporated, Cambridge, Mass. Preparing cellulose butyrate. No. 1,425,581; Aug. 15.
- Esselmann, Louis H., assignor of one-half to J. Shalhoub, St. Louis, Mo. Pastry-cone machine. No. 1,419,622; June 13.
- Essex Motors. (See Baits, Stuart G., assignor.)
- Essex Motors. (See Gurke, John A., assignor.)
- Essex Rubber Company. (See Brunner, Hans, assignor.)
- Essex Rubber Company. (See Phillips, Raymond H., assignor.)
- Essex Specialty Co., Inc. (See Sadtler, Samuel S., assignor.)
- Esso, Robert L., Johannesburg, Transvaal, South Africa. Loose-leaf binder and the like. No. 1,426,468; Aug. 22.
- Estabrooke, William L., Yonkers, and D. D. Jackson, assignors, by mesne assignments, to J. T. Pratt, New York, D. D. Jackson, Brooklyn, N. Y., and J. D. Sears, Bloomfield, N. J., trustees. Desulphurizing iron ores, iron and steel, and coke used in the metallurgy of iron. No. 1,426,054; Aug. 15.
- Estate Stove Company, The. (See Kahn, Bertrand B., assignor.)
- Estep, Frank L., et al. (See Humbert, Karl E., assignor.)
- Estep, William G., Duquesne, A. E. Hamilton, and E. L. Simonson, Homestead, Pa. Fluting machine. No. 1,415,819; May 9.
- Estes, Blanche M., Pekin, Ill. Educational game. No. 1,439,359; Dec. 19.
- Estes, Francisco O., Arlington, Vt. Automobile sled. No. No. 1,437,408; Dec. 5.
- Esty, Marion A., Eldon, Mo. Road machine. No. 1,420,981; June 27.
- Etablissements Continouza (Societe Anonyme.) (See Gauriat, Pierre S., assignor.)
- Etchebèhere, Jeanty, Biarritz, Basses-Pyrenees, France. Receiver and stench trap for sewers. No. 1,423,925; July 25.
- Etheredge, James N. (See Brown, Thomas E., assignor.)
- Etheridge, Harry C., Waco, Tex. Ice carrier for automobiles. No. 1,431,385; Oct. 10.
- Etherington, Harry R. L., Pinner, England. Rear sight for rifles and like small arms. No. 1,425,321; Aug. 8.
- Ethier, Raymond F. (See Pendergast, G., and Ethier.)
- Etowah Foundry and Machine Company. (See Owen, Evan J., assignor.)
- Etrich, Ignaz, Jr. (See Etrich, Ignaz, assignor.)
- Etrich, Ignaz, assignor to I. Etrich, Jr., Oberaltstadt, near Trautenau, Bohemia. Adjusting mechanism for the breaking rollers of flax-breaking machines. No. 1,405,980; Feb. 7.
- Etrich, Ignaz, assignor to I. Etrich, Jr., Oberaltstadt, near Trautenau, Bohemia. Scutching machine. No. 1,405,990; Feb. 7.
- Etter, Frederick M. (See Kintzele, J. H., Manheimer and Etter.)
- Etter, Frederick M. (See Manheimer, A., Etter, and Kintzele.)
- Etter, Jacob R., Crawfordsville, Ind. Engine power mechanism. No. 1,404,017; Jan. 17.
- Etter, Roland R., East Cleveland, Ohio, assignor to General Electric Company. Adsorption apparatus for solvent recovery, etc. No. 1,429,856; Sept. 19.
- Ettinger, Grace A., administratrix. (See Ettinger, Joel B.)
- Ettinger, Joel B., deceased; by G. A. Ettinger, administratrix, Portland, Oreg. Cutter-head mechanism. No. 1,414,633; May 2.
- Ettinger, Joel B., deceased, by G. A. Ettinger, administratrix, Portland, Oreg. Mechanism for clamping members on spindles. No. 1,434,433; Nov. 7.
- Etzenhouser, Fred H., Mount Washington, Mo. Self-cleaning drain valve. No. 1,406,830; Feb. 14.
- Eubank, Nathan A., Nashville, Tenn. Tire-rim tool. No. 1,422,948; July 18.
- Eucken, Eduard, Alzey, Germany. Transmission means. No. 1,430,305; Sept. 26.
- Eule, Gustav E. A., Muegeln, near Dresden, assignor to Firm Benno Kühn, Maschinenfabrik, Dresden, Saxony, Germany. Paper-feeding machine and the like. No. 1,431,386; Oct. 10.
- Euler, George C., West New York, N. J., assignor to R. B. Davis Company. Automatic feeding mechanism. No. 1,433,990; Oct. 31.
- Eureka Rough Dry Pin System Co. (See Hanne, Angus F., assignor.)
- Eureka Smokeless Furnace Co. (See Nilson, Andrew, assignor.)
- Eureka Tackle Block Company, The. (See Flynn, John H., Jr., assignor.)
- Enstege, Thomas P., Wellington, New Zealand. Window stay and fastener. No. 1,410,902; Mar. 28.

Alphabetical list of patentees—Continued.

- Eustage, Thomas P., Wellington, New Zealand. Fastener and retainer for casement windows, doors, and the like. No. 1,411,482; Apr. 4.
- Eustice, Alfred L., Chicago, Ill. Fuse. No. 1,411,332; Apr. 4.
- Eustice, Alfred L., Chicago, Ill. Inclosed fuse. No. 1,419,724; June 13.
- Eustice, Alfred L., Chicago, Ill. Making fuse links. No. 1,426,827; Aug. 22.
- Eustice, Alfred L., Chicago, Ill. Fuse-terminal packing. No. 1,436,797; Nov. 28.
- Eustice, Edward A., Galesburg, Ill. Washing machine. No. 1,430,065; Sept. 26.
- Eustis, Arthur L., Los Angeles, Calif. Shut-off and safety valve. No. 1,405,192; Jan. 31.
- Eustis, Frederic A., et al. (See Eustis, F. A., Hayward, Schleicher, and Belcher, assignors.)
- Eustis, Frederic A., Milton, Mass., assignor of three-fourths to C. P. Perin, New York, N. Y. Treating iron ore for the recovery of chromium. No. 1,403,237; Jan. 10.
- Eustis, Frederic A., Milton, C. R. Hayward, Quincy, H. M. Schleicher and D. Belcher, Boston, Mass., assignors of one-half to said Eustis and one-half to C. P. Perin, New York, N. Y. Making electrolytic iron. No. 1,412,174; Apr. 11.
- Eustis, Frederic A., Milton, C. R. Hayward, Quincy, H. M. Schleicher and D. Belcher, Boston, Mass., assignors of one-half to said Eustis and one-half to C. P. Perin, New York, N. Y. Making electrolytic iron. No. 1,432,543; Oct. 17.
- Eustis, Frederic A., Milton, C. R. Hayward, Quincy, H. M. Schleicher and D. Belcher, Boston, Mass., assignors of one-half to said Eustis and one-half to C. P. Perin, New York, N. Y. Making electrolytic iron. No. 1,432,544; Oct. 17.
- Eustis, J. P., Manufacturing Company. (See Watson, W. A., and Eustis, assignors.)
- Eustis, Warner. (See Watson, W. A., and Eustis.)
- Evalenko, William A., New York, N. Y. Merchandise-package container. No. 1,440,215; Dec. 26.
- Evans, Adole K., executrix. (See Evans, Henry R.)
- Evans, Alfred C., Hawthorne, N. J. Filter valve. No. 1,407,397; Feb. 21.
- Evans, Arthur B., West Perth, Western Australia, Australia. Means for completing the vaporization and homogenization of mixture delivered by a carburetor. No. 1,430,222; Sept. 26.
- Evans, Arthur B., and R. P. Payne, Leeds, England. Sheet-feeding mechanism for printing presses. No. 1,430,223; Sept. 26.
- Evans, Arthur B., and R. P. Payne, Leeds, England. Rotary printing machine. No. 1,433,991; Oct. 31.
- Evans, Charles B., Chicago, Ill. Cushion wheel. No. 1,436,388; Nov. 21.
- Evans, Charles H., Newfane, N. Y. Sweet-potato-sizing machine. No. 1,403,597; Jan. 17.
- Evans, Clarence M., Corydon, Ind. Cab for automobile trucks. No. 1,439,621; Dec. 19.
- Evans, Clarence T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controller for apparatus used in utilizing mercury arc lamps. No. 1,437,640; Dec. 5.
- Evans, Clyde P., St. Louis, Mo. L. Greenstreet and W. Day, Maplewood, Mo.; said Greenstreet and said Day assignors to said Evans. Annunciator. No. 1,430,364; Sept. 26.
- Evans, Earl R., Great Barrington, Mass. Control apparatus. No. 1,416,804; May 23.
- Evans, Edward S., Detroit, Mich. Floor loading buck. No. 1,426,164; Aug. 15.
- Evans, Edward S., Detroit, Mich. Automobile tie-down device. No. 1,434,333; Oct. 31.
- Evans, Edward S., Detroit, Mich. Automobile floor-loading buck. No. 1,439,663; Dec. 19.
- Evans, Edwin R., Detroit, Mich. Rear-axle construction. No. 1,401,663; Mar. 28.
- Evans, Edwin R., assignor of one-half to B. F. Everitt, Detroit, Mich. Air cleaner. No. 1,430,066; Sept. 26.
- Evans, Ernest G. (See Shorter, Willy B., assignor.)
- Evans, Frank, Kansas City, Mo. Pocket music rack and copyholder. No. 1,402,483; Jan. 3.
- Evans, Frank R., Zanesville, Ohio. Strip-cutting machine. No. 1,406,947; Feb. 14.
- Evans, Frank R., Zanesville, Ohio. Cloth-printing machine. No. 1,406,948; Feb. 14.
- Evans, Fred, Summit, N. J. Walking doll. No. 1,403,900; Jan. 17.
- Evans, Fred, Summit, N. J., assignor of one-half to Hartshorne & Battelle, New York, N. Y. Tractor wheel. No. 1,405,823; Feb. 7.
- Evans, Fred, Summit, assignor to L. V. Aronson, Newark, N. J. Flash light. No. 1,411,613; Apr. 4.
- Evans, Fred, Summit, assignor to L. V. Aronson, Newark, N. J. Flash light. No. 1,411,614; Apr. 4.
- Evans, Fred, Summit, assignor to L. V. Aronson, Newark, N. J. Flash light. No. 1,411,615; Apr. 4.
- Evans, Fred, Summit, assignor to L. V. Aronson, Newark, N. J. Flash light. No. 1,411,616; Apr. 4.
- Evans, Fred, Summit, assignor to L. V. Aronson, Newark, N. J. Head light for bicycles, magnetic drive. No. 1,411,617; Apr. 4.
- Evans, Fred, Summit, N. J., assignor to L. V. Aronson, Newark, N. J. Flash light. No. 1,436,798; Nov. 28.
- Evans, Fred, Summit, assignor to E. T. Tranzan, Maplewood, and A. C. Hensler, Newark, N. J. Adjustable striker plate for doors. No. 1,439,078; Dec. 19.
- Evans, George, New York, N. Y. Dental instrument. No. 1,417,236; May 23.
- Evans, George, New York, N. Y. Dental instrument. No. 1,417,237; May 23.
- Evans, George B., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Current collector. No. 1,431,295; Oct. 10.
- Evans, George C., Tulsa, Okla. Burner. No. 1,429,415; Sept. 19.
- Evans, Harry L. (See Andrews, J. W., and Evans.)
- Evans, Harry L., and J. W. Andrews, Newport, R. I., assignors to Cartoning Machinery Corporation, Newark, N. J. Article feeding and collating mechanism. No. 1,437,409; Dec. 5.
- Evans, Harry L., and J. W. Andrews, Newport, R. I., assignors to Cartoning Machinery Corporation, Newark, N. J. Receptacle-filling machine. No. 1,437,410; Dec. 5.
- Evans, Henry R., deceased, London, England; A. K. Evans, executrix. Apparatus for printing motion-picture films. No. 1,425,461; Aug. 8.
- Evans, Henry R., deceased, New York, N. Y.; A. K. Evans, executrix. Motion-picture apparatus. No. 1,426,722; Aug. 22.
- Evans, Henry R., deceased, New York, N. Y.; A. K. Evans, executrix. Projection lamp. No. 1,436,308; Nov. 21.
- Evans, Henry T., Manhasset, N. Y. Resilient wheel. No. 1,406,949; Feb. 14.
- Evans, Isaac H., Ava, Mo. Dairy barn. No. 1,426,266; Aug. 15.
- Evans, James W. (See Levenhagen, F. A., and Evans.)
- Evans, John. (See Van Cott, A., and Evans.)
- Evans, John, Sons. (See Evans, William, assignor.)
- Evans, John E., Chicago, Ill. Brick. No. 1,422,949; July 18.
- Evans, John E., assignor of one-half to E. H. Goodwin, Los Angeles, Calif. Oil-gauge valve. No. 1,427,681; Aug. 29.
- Evans, John E., Chicago, Ill. Brick. No. 1,434,378; Nov. 7.
- Evans, John H., Northcarrollton, Miss. Antiskid device. No. 1,424,347; Aug. 1.
- Evans, John H., Northcarrollton, assignor to Kerosene System Sales Company, Drew, Miss. Pump piston. No. 1,402,222; Jan. 3.
- Evans, John J., Tacoma, Wash. Molder's match plate. No. 1,418,703; June 6.
- Evans, John W., Cincinnati, Ohio. Pitch square. No. 1,438,432; Dec. 12.
- Evans, Joseph E., Bedford, Ind., assignor of one-fourth to O. N. Clifford, St. Louis, Mo., and one-fourth to J. O. Gyger, Bedford, Ind. Suspension device for equalizing the strain on elevator cables. No. 1,429,070; Sept. 12.
- Evans, Louis M., and G. W. Steinmann, Washington, D. C. Flash lamp. No. 1,406,452; Feb. 14.
- Evans, Owen B., and H. G. Terzian, assignor to The United Gas Improvement Company, Philadelphia, Pa. Using heavy oil in gas making. No. 1,418,782; June 6.
- Evans, Powell, assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa. Differential dry-pipe valve. No. 1,418,140; May 30.
- Evans, Ralph D., Salt Lake City, Utah. Radiator hanger. No. 1,407,263; Feb. 21.
- Evans, Robert N. (See Evans, Rudolph W., assignor.)
- Evans, Rudolph W., Hamilton, Ontario, Canada. Chain fastener. No. 1,420,372; June 20.
- Evans, Rudolph W., assignor to R. N. Evans, Hamilton, Ontario, Canada. Antiskid chain. No. 1,420,533; June 20.
- Evans, S. W., & Son. (See Evans, Wayne S., assignor.)
- Evans, Talliesin, Llanelli, Wales. Manufacturing tin plates. No. 1,414,347; May 2.
- Evans, Thomas A. (See Hamilton, W. B., and Evans.)
- Evans, Thomas W., Philadelphia, Pa. Stove-lid lifter. No. 1,411,240; Mar. 28.
- Evans, Walter W., and B. Dales, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Printing ink. No. 1,404,355; Jan. 24.
- Evans, Wayne S., assignor to S. W. Evans & Son, Philadelphia, Pa. Umbrella rib and stretcher. No. 1,405,824; Feb. 7.
- Evans, William. (See Childs, J., and Evans, assignors.)
- Evans, William, assignor to J. Evans' Sons, Philadelphia, Pa. Machine for making spring eyes. No. 1,426,165; Aug. 15.
- Evans, William B., Ulvade, Tex. Clip for eyeglass cases and the like. No. 1,409,840; Mar. 14.
- Evans, William F., Astoria, N. Y., assignor of forty per cent to E. N. Baar, New York, N. Y. Wrench. No. 1,438,952; Dec. 19.
- Evans, William L. (See Trumbull, H. L., and Evans.)
- Evans, William L., Jr., Washington, Ind. Hinge. No. 1,407,739; Feb. 28.
- Evans, William L., Jr., Washington, Ind. Hinge. No. 1,407,740; Feb. 28.
- Evans, William L., Jr., Washington, Ind. Hinge. No. 1,407,790; Feb. 28.
- Evans, William L., Jr., Washington, Ind. Hinge. No. 1,412,107; Apr. 11.
- Evans, William L., Jr., Washington, Ind. Hinge. No. 1,412,108; Apr. 11.

Alphabetical list of patentees—Continued.

- Evans, William L., Jr., Washington, Ind. Hinge. No. 1,412,109; Apr. 11.
- Evans, William F., Manchester, England. Support or bearing for drying cylinders and such like. No. 1,421,193; June 27.
- Evaporating and Drying Machinery Company, The. (See Miller, John C., assignor.)
- Eveland, John L., Hornell, N. Y. Shade and curtain holder. No. 1,403,755; Jan. 17.
- Eveleth, Charles W., New York, N. Y. Salvage apparatus. No. 1,409,690; Mar. 14.
- Eveleth, Clarence M., River Forest, Ill. Oil can. No. 1,411,775; Apr. 4.
- Evelyn, Harry C., Chicago, Ill., assignor, by mesne assignments, to Biffex Products Company. Bumper-supporting bracket. No. 1,424,395; Aug. 1.
- Even, Charles, Los Angeles, Calif. License plate. No. 1,410,662; Mar. 28.
- Evens, Thomas N., London, England. Interchangeable letter. No. 1,405,991; Feb. 7.
- Evens, Thomas N., London, England. Means for setting up loose-letter signs and notice boards. No. 1,413,266; Apr. 18.
- Evenson, Clarence O., Valders, Wis. Tire gauge. No. 1,437,504; Dec. 5.
- Ever Ready Company, (Great Britain) Limited, The. (See Goodfellow, Magnus, assignor.)
- Everding, Louis C. (See Hunter, William F., assignor.)
- Everell, Joseph A., Quebec, E. Plamondon, and U. Plourde, Ste. Anne de Beaupré, Quebec, Canada. Street indicator. No. 1,407,848; Feb. 28.
- Everell, Joseph A., Quebec, E. Plamondon, and U. Plourde, Ste. Anne de Beaupré, Quebec, Canada. Automatic street and station indicator. No. 1,438,990; Dec. 19.
- Everett, Edward A., assignor to Q & C Company, New York, N. Y. Electric heater for outdoor use. No. 1,408,183; Feb. 28.
- Everett, Edward A., New York, N. Y., assignor to Nande Corporation. Track-drilling machine. No. 1,408,872; Mar. 7.
- Everett, Edward A., New York, N. Y., assignor to Nande Corporation. Track-drilling machine. No. 1,421,194; June 27.
- Everett, Frederick J. (See Drum, J. B., and Everett.)
- Everett, George H., et al. (See Throp, E. E., and Sutton.)
- Everett, John E. and T. R., Cochran, Ga. Internal-combustion engine. No. 1,405,403; Feb. 7.
- Everett, Russell M. (See Broderick, John W., assignor.)
- Everett, Samuel J., Thornton Heath, England. Hypodermic syringe. No. 1,403,020; Jan. 10.
- Everett, Thomas R. (See Everett, John E. and T. R.)
- Everett, Vernon M., Fullerton, Calif. Valve grinder. No. 1,432,168; Oct. 17.
- Everhart, George S., Oshkosh, Wis. Nonskid chain device. No. 1,407,741; Feb. 28.
- Everitt, B. F., Company. (See Elbertz, Frank V., assignor.)
- Everitt, Byron F. (See Evans, Edwin R., assignor.)
- Everitt, James, London, England. Wardrobe rack. No. 1,420,534; June 20.
- Everlastik, Incorporated. (See Gramelsbach, Frank J., assignor.)
- Evers, John F., Denison, Iowa. Portable stanchion. No. 1,427,274; Aug. 29.
- Evers, Theodore. (See Silvis, R. S., and Evers.)
- Evers, William, Buffalo, N. Y. Sewing machine. No. 1,407,849; Feb. 28.
- Evershed, Sydney, assignor of one-half to Evershed and Vignoles Limited, London, England. Adjustable resistance. No. 1,402,587; Jan. 3.
- Evershed and Vignoles Limited. (See Evershed, Sydney, assignor.)
- Everson, John J., Newton, Mass. Artificial hand. No. 1,416,180; May 16.
- Everts, Wilber W., Rochester, N. Y. Method and means for cleaning silver, gold, platinum, and other articles. No. 1,416,403; May 16.
- Every, Isabel, Hibbing, Minn. Baking utensil. No. 1,427,796; Sept. 5.
- Evr Klean Seat Pad Co. (See Reece, John, assignor.)
- Ewald, Arno A., Oakfield, Wis. Tire-inflating device. No. 1,414,559; May 2.
- Ewald, Arno A., Oakfield, Wis. Air service station. No. 1,416,627; May 16.
- Ewald, Arno A., Oakfield, Wis. Air-supply station. No. 1,427,450; Aug. 29.
- Ewald, Arno A., Oakfield, Wis. Motor-driven automatic pressure coin-controlled air station. No. 1,428,365; Sept. 5.
- Ewald, Leo, Minneapolis, Minn. Filtering apparatus. No. 1,408,279; Feb. 28.
- Ewart, George B., and H. R. Milligan, Pittsburgh, Pa. Signal for motor vehicles. No. 1,403,150; Jan. 10.
- Ewart, John S. (See Clifton, W. E., and Ewart.)
- Ewart, John S., and W. E. Clifton, Nottingham, England. Chionotropes. No. 1,420,982; June 27.
- Ewashko, John, Arkville, N. Y. Milk box. No. 1,434,810; Nov. 7.
- Ewaszczyszyn, Michael, Amsterdam, N. Y. Shoe-polishing device. No. 1,437,231; Nov. 28.
- Ewert, Walter S., Los Angeles, Calif. Artificial bait. No. 1,426,283; Aug. 15.
- Ewing, Charles M., and H. N. Bryan, Deweyville, Ohio. Beet and vegetable harvester. No. 1,417,309; May 23.
- Ewing, George W., Cincinnati, Ohio. Traffic signal. No. 1,418,341; May 30.
- Excelsior Steel Furnace Company, The. (See Scherer, Albert G., assignor.)
- Exner, Joseph, Stockton, Calif. Milk-can punch and sealer. No. 1,434,881; Nov. 7.
- Expanded Metal Company Limited, The. (See Salmon H., and Booton, assignor.)
- Exton, William G., New York, N. Y. Optical instrument. No. 1,433,877; Oct. 31.
- Extrom, Victor E., Fulda, Minn. Winding device. No. 1,419,832; June 13.
- Eycleshymer, Arthur F., Niles, Mich. Swing. No. 1,434,484; Nov. 7.
- Eyer, Charles B., Cleveland, Ohio. Crude-oil burner. No. 1,429,857; Sept. 19.
- Eyerly, Lee U. (See Klein, R. A., Burtis, and Eyerly.)
- Eyler, Lawrence J. (See Russell, H. O., and Eyler.)
- Eynon Crossing Company, The. (See Wilson, Byron E., assignor.) (Reissue.)
- Eynon, Margaret Y. (See Eynon, Thomas M., assignor.)
- Eynon, Thomas M., assignor to M. Y. Eynon, Philadelphia, Pa. Flat-tire indicator. No. 1,415,820; May 9.
- Eyquem, Maurice, Paris, France. Wind screen of motor cars and other vehicles. No. 1,430,963; Oct. 3.
- Eyrich, Harold R., Phoenixville, Pa., and J. A. Schreiber, Chicago, assignors to The Paper De-Inking Co., Chicago, Ill. Removing ink from printed paper. No. 1,421,195; June 27.
- F. & M. Novelty Co. Inc. (See Marcus, Samuel, assignor.)
- Faas, Walter, San Diego, Calif. Photographic accessory. No. 1,403,677; Jan. 17.
- Fabart Instrument Company. (See Swanberg, Julius, assignor.)
- Faber, Alvin J., assignor to Electric Heated Spark Plug Co., Inc., St. Louis, Mo. Spark plug. No. 1,430,964; Oct. 3.
- Faber, Henry B., and W. H. Harding, Jr., assignors to Atomized Products Corporation, New York, N. Y. Desiccator. No. 1,419,664; June 13.
- Faber, John P., Dunellen, N. J., assignor to Ransome Concrete Machinery Company. Distributing and leveling device for concrete paving machines. No. 1,404,747; Jan. 31.
- Faber, Otto, La Porte, Tex. Cement interlocking plate. No. 1,420,246; June 20.
- Fabig, Robert, Neuruppin, Germany, assignor to R. Scheffer, Amsterdam, Netherlands. Inking device for type printing apparatus. No. 1,434,739; Nov. 7.
- Fabriques de Produits Chimiques de Thann et de Mulhouse. (See Haller, Albin, assignor.)
- Facciano, Armando B., Rosario De Santa Fe, Argentina. Safety lid for tanks. No. 1,436,488; Nov. 21.
- Faccioli, Giuseppe, Pittsfield, Mass., assignor to General Electric Company. Voltage-regulating system. No. 1,423,926; July 25.
- Faccioli, Giuseppe, Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. No. 1,426,971; Aug. 22.
- Facciuto, Louis, Jr., et al. (See Facciuto, Luigi, Sr., assignor.)
- Facciuto, Luigi, Sr., Flushing, assignor of one-third to L. Facciuto, Jr., Lansing, and one-third to F. C. Leon, Flushing, Ohio. Railway-switch stand. No. 1,422,191; July 11.
- Fackert, Harry M., Hillside, N. J., assignor to Chelsea Ship Repair Co. Inc., New York, N. Y. Waste-fuel-oil-salvaging barge. No. 1,406,950; Feb. 14.
- Fade, Thomas W., London, England. Combined hinge and door holder. No. 1,429,416; Sept. 19.
- Faessler J., Manufacturing Company, The. (See Faessler, John W., assignor.)
- Faessler, J., Manufacturing Company, The. (See Maupin, Graves R., assignor.)
- Faessler, John W., assignor, by mesne assignments, to The J. Faessler Manufacturing Company, Moberly, Mo. Boiler tool. No. 1,439,622; Dec. 19.
- Fafnir Bearing Company, The. (See Searles, Raymond R., assignor.)
- Fafnir Bearing Company, The. (See Sellow, Roland W., assignor.)
- Fagan, Joseph A., Augusta, Ky. Signal light and license-plate holder for automobiles. No. 1,408,726; Mar. 7.
- Fagen, Abraham A., assignor of one-half to Z. Davis, Minneapolis, Minn. Vending machine. No. 1,412,464; Apr. 11.
- Fageol, Rollie B., Oakland, Calif. Bumper support for motor vehicles. No. 1,405,676; Feb. 7.
- Fageol, Rollie B., Oakland, Calif. Coupling for vehicles. No. 1,407,019; Feb. 21.
- Fageol, Rollie B., Oakland, Calif. Automobile bumper. No. 1,427,275; Aug. 29.
- Fagerström, Ernst E. F. Skarsatras, near Stockholm, Sweden. Self-centering centrifuge. No. 1,429,725; Sept. 19.
- Fagg, Fred, Clinton, Ind. Automobile air pump. No. 1,434,994; Nov. 7.
- Fago, Charles, Jr., Winthrop Harbor, Ill. Toy. No. 1,430,965; Oct. 3.
- Faherty, Michael W., Memphis, Tenn., assignor to A. W. French, Piqua, Ohio. Meal cooker. No. 1,431,107; Oct. 3.

Alphabetical list of patentees—Continued.

- Fahlenberg, Hermann, Pankow, near Berlin, assignor to R. A. Hansemann, Berlin, Germany. Electrical testing instrument. No. 1,433,264; Oct. 24.
- Fahlman, Duncan J., assignor to Kuhl Stamping Company. Detroit, Mich. Can construction. No. 1,409,336; Mar. 14.
- Fahlman, Ernst B. G., Harnosand, Sweden. Toy for round games. No. 1,438,908; Dec. 12.
- Fahnestock, Adam B., Great Neck, N. Y., assignor, by mesne assignments, to Elvin Mechanical Stoker Company, Wilmington, Del. No. 1,405,677; Feb. 7.
- Fahnestock, Adam B., Great Neck, N. Y., assignor, by mesne assignments, to Elvin Mechanical Stoker Company, Wilmington, Del. Fuel-feeding mechanism. No. 1,415,927; May 16.
- Fahnestock, Adam B., Manhasset, assignor to Elvin Mechanical Stoker Company, New York, N. Y. Conveying apparatus for mechanical stokers. No. 1,436,870; Nov. 28.
- Fahnestock, Ernest B., deceased; E. M. Jordan and F. H. Burnett, executors, Plandome, N. Y. Conduit for volatilized fluids. No. 1,430,892; Oct. 3.
- Fahrenwald, Arthur W., Moscow, Idaho. Flotation apparatus. No. 1,417,895; May 30.
- Fahrenwald, Frank A., assignor to The Rhotanium Company, Cleveland, Ohio. Composition of matter for platinum substitute in chemical apparatus and other uses and making same. No. 1,415,233; May 9.
- Fahrlander, Harry W., Hamilton, assignor to The Houston Stanwood & Gamble Company, Cincinnati, Ohio. Detachable support for horizontal shafts of machines. No. 1,408,280; Feb. 28.
- Fahrney, Milton, Hollywood, Calif. Antiskid brake. No. 1,432,594; Oct. 17.
- Failey, John M., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Strap fastening. No. 1,408,281; Feb. 28.
- Fair, C. S., et al. administrators. (See Bowser, Augustus.)
- Fair, Irvin E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Cord fabric and means for making the same. No. 1,405,992; Feb. 7.
- Fairback, Dickson, St. Louis, Mo., assignor to Elliot Frog & Switch Company, East St. Louis, Ill. Adjustable rail brace. No. 1,413,016; Apr. 18.
- Fairbairn, John M. R. (See Orrock, John W., assignor.)
- Fairbank, Henry, London, assignor of one-half to D. S. M. Brown, West Hampstead, London, England. Locking device for interengaging screw-threaded elements. No. 1,404,105; Jan. 17.
- Fairbank, N. K., Company, The. (See Godfrey, Truman M., assignor.)
- Fairbanks, Adelbert B., and O. C. Hanel, Elk Rapids, Mich. Animal trap. No. 1,438,816; Dec. 12.
- Fairbanks, Clarence T., Chicago, Ill. Tire stand. No. 1,428,223; Sept. 5.
- Fairbanks, Ernest H., Merchantville, N. J. Tone-modulating device for talking machines. No. 1,407,523; Feb. 21.
- Fairbanks, Morse & Company. (See Hobart, F. G., and Jahnke, assignors.)
- Fairbanks, Morse & Co. (See Peter, Alfred, assignor.)
- Fairbanks, Norman D., Goodland, Minn. Snare. No. 1,402,753; Jan. 10.
- Fairburn, William A., Morristown, N. J., assignor to The Diamond Match Company, Chicago, Ill. Treating match compositions and the product thereof. No. 1,406,176; Feb. 14.
- Fairchild, Sherman M., Oneonta, N. Y. Plate-pack adapter. No. 1,431,445; Oct. 10.
- Fairchild, Sherman M., Oneonta, N. Y. Plate pack. No. 1,439,509; Dec. 19.
- Fairchild, Walter H., Evanston, Ill., assignor to Mid-West Box Company, Anderson, N. Y. Incandescent-lamp wrapper. No. 1,428,019; Sept. 5.
- Fairchild, Walter L., New York, N. Y. Vulcanizing pneumatic tubes. No. 1,423,760; July 25.
- Fairchild, Walter L., New York, N. Y. Mold for pneumatic tubes and similar articles. No. 1,423,761; July 25.
- Fairclough, Samuel R. (See Williams, William, assignor.)
- Fairclough, William, Wigan, England. Mud or splash guard for vehicles. No. 1,417,813; May 30.
- Fairclough, William, Wigan, England. Mud or splash guard for vehicles. No. 1,429,496; Sept. 19.
- Fairfield Manufacturing Company. (See Blanchard, Adna F., assignor.)
- Fairfield Shipbuilding & Engineering Company Limited. (See Robertson, William, assignor.)
- Fairless, Victor H., Trenton, Tenn. Hose protector. No. 1,423,409; July 18.
- Fairless, Victor H., Trenton, Tenn. Soft-collar support. No. 1,427,727; Aug. 29.
- Fairless, Victor H., Trenton, Tenn. Cotton and pea picker sack. No. 1,427,728; Aug. 29.
- Fairlie, Andrew M., Atlanta, Ga. Recovery of oxides of nitrogen in sulphuric-acid manufacture. No. 1,420,477; June 20.
- Fairlie, Matthew F., and J. J. Denny, Cobalt, Ontario, Canada. Treating manganiferous ores of the precious metals. No. 1,417,153; May 23.
- Fairmont Gas Engine & Railway Motor Car Company. (See Kasper, Walter F., assignor.)
- Fairmount Tool and Forging Company, The. (See Bartenstein, John J., assignor.)
- Fairweather, Frederick H., Bridgeport, Conn. Air gun. No. 1,404,689; Jan. 24.
- Fairweather, Nelson H., Everett, assignor to Gillette Safety Razor Company, Boston, Mass. Display case for small articles. No. 1,417,814; May 30.
- Faison, Elliott, Tarboro, N. C. Automobile lock. No. 1,401,971; Jan. 3.
- Faith, William A., Murdock, Ill. Thiefproof record holder. No. 1,438,433; Dec. 12.
- Falco, Frank T., assignor to Pacific Car & Foundry Co., Seattle, Wash. Semitrailer and means for connecting it with a truck. No. 1,436,025; Nov. 21.
- Falcon, Leonard G., Lucindale, South Australia, Australia. Pulley-belt fastener. No. 1,406,831; Feb. 14.
- Falconer, Harry W., near Perrysburg, Ohio. Block-uniting means. No. 1,430,540; Oct. 3.
- Fales, Willard L., Castle Rock, Colo. Record book. No. 1,432,020; Oct. 17.
- Falk, Andrew, Pittsburgh, assignor of three-tenths to M. Pfaff, Homestead, Pa. Fitting for railways and the like. No. 1,423,927; July 25.
- Falk Company, The. (See Falk, H. W., Day, and Banner, assignors.)
- Falk, Herman W., P. C. Day, and O. A. Banner, assignors to The Falk Company, Milwaukee, Wis. Elastic-fluid turbine. No. 1,435,918; Nov. 21.
- Falk, Hilbert L., New Orleans, La., assignor to L. D. Wood, Philadelphia, Pa. Composition for coating metals for the purpose of permitting electric currents to operate by the action of light. No. 1,424,088; July 25.
- Falk, Kaufman G. (See Frankel, E. M., and Falk.)
- Falk, Morris, Leominster, Mass. Pin-tumbler lock. No. 1,414,348; May 2.
- Falke, Jean M. C., Paris, and T. H. M. Salce, Lyon, France. Vehicle. No. 1,407,648; Feb. 21.
- Falkiner, Edward J., New York, N. Y. Handle for trunks, kit bags, and the like. No. 1,409,936; Mar. 21.
- Fall, Thomas A., London, England. Clutch. No. 1,412,234; Apr. 11.
- Falley, Lewis H., Kansas City, Mo. Separating and classifying apparatus. No. 1,406,177; Feb. 14.
- Falley, Lewis H., Kansas City, Mo. Separating and classifying apparatus. No. 1,410,288; Mar. 21.
- Falley, Lewis H., Kansas City, Mo. Separating and classifying apparatus. No. 1,422,092; July 11.
- Fallin, Joseph H. (See Birchbauer, Ferdinand, assignor.)
- Fallon, Andrew J., Chicago, Ill. Lock. No. 1,423,656; July 25.
- Fallot, Alfred, Plauen, Germany, assignor to Vogtlandische Maschinenfabrik (vorm J. C. & H. Dietrich) Aktiengesellschaft, Plauen, Saxony, Germany. Rotary folding apparatus. No. 1,413,841; Apr. 25.
- Fallot, Alfred, assignor to Vogtlandische Maschinenfabrik (vorm. T. C. & H. Dietrich) Aktiengesellschaft, Plauen, Saxony, Germany. Rotary printing machine. No. 1,431,728; Oct. 10.
- Falls Rubber Company, The. (See Kratz, George D., assignor.)
- Falter, Richard, Brooklyn, N. Y. Baby pants. No. 1,402,588; Jan. 3.
- Faltin, Bernard P., Philadelphia, Pa. Mechanical measure. No. 1,408,282; Feb. 28.
- Famariss, Walter. (See Pierce, L. J., and Famariss.)
- Fancher, Charles J. (See Johnson, R. A., and Fancher.)
- Fancher, Charles J., and R. A. Johnson, Windsor, Vt., assignors to The National Acme Company, Cleveland, Ohio. Feed collet and making the same. No. 1,433,878; Oct. 31.
- Fancher, Charles J., and R. A. Johnson, Windsor, Vt., assignors to The National Acme Company, Cleveland, Ohio. Coiling machine. No. 1,433,879; Oct. 31.
- Fancher, Charles J., and R. A. Johnson, Windsor, Vt., assignors to The National Acme Company, Cleveland, Ohio. Coiling machine. No. 1,433,880; Oct. 31.
- Fancher, Charles J., and R. A. Johnson, Windsor, Vt., assignors to The National Acme Company, Cleveland, Ohio. Drawn-steel feed collet and making the same. No. 1,433,881; Oct. 31.
- Fancher, Charles J., and R. A. Johnson, Windsor, Vt., assignors to The National Acme Company, Cleveland, Ohio. Feed collet. No. 1,433,882; Oct. 31.
- Fandrich, Ernest. (See O'Neill, H., and Fandrich.)
- Fanger, Herman J. (See Ebeling, R. W., and Fanger.)
- Fankhauser, Charles A., Geneva, Switzerland. Process and machine for coating bonbons and the like. No. 1,424,286; Aug. 1.
- Fannen, Patrick L., New York, N. Y. Adjustable socket wrench. No. 1,432,324; Oct. 17.
- Fanner Manufacturing Company, The. (See Gibson, Samuel H., assignor.)
- Fanning, John J. (See Grant, A. G., and Fanning.)
- Fanning, Walter F., Providence, R. I. Shock absorber for crutches and the like. No. 1,406,453; Feb. 14.
- Fant, Patrick J., Hugo, Okla. Peanut digger. No. 1,412,304; Apr. 11.
- Fant, Patrick J., Hugo, Okla. Peanut digger. No. 1,412,305; Apr. 11.
- Fantus, Ernest L. (See Gill, Charles H., assignor.)
- Faraday Co., The. (See Boyd, F. C., and Barnes, assignors.)
- Farb, Pincus, Saginaw, Mich., assignor to Sonora Phonograph Corporation. Talking machine. No. 1,409,369; Mar. 14.

Alphabetical list of patentees—Continued.

- Farbenfabriken vorm. Friedr. Bayer and Co. (See Bauer, W., and Herre, assignors.)
- Farbenfabriken vorm. Friedr. Bayer and Co. (See Berendes, R., and Grütten, assignors.)
- Farbenfabriken vorm. Friedr. Bayer and Co. (See Callsen, Jürgen, assignor.)
- Farbenfabriken vorm. Friedr. Bayer and Co. (See Schweitzer, Hugo, assignor.)
- Farbenfabriken vorm. Friedr. Bayer and Co. (See Weyland, H., Hahl, and Berendes, assignors.)
- Farbenfabriken vorm. Friedr. Bayer and Co. (See Willstätter, R., Duisberg, and Callsen, assignors.)
- Farber, Charles M., Tampa, Fla. Exhibiting apparatus. No. 1,428,766; Sept. 12.
- Farber, Clayton W. (See Breyer, F. G., Croll, and Farber.)
- Farber, Simon W., Brooklyn, N. Y. Ash tray and similar receptacle. No. 1,424,348; Aug. 1.
- Farbro, George. (See Rhees, H. P., Farbro, and Stevens.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Bockmühl, M., and Schwarz, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Bockmühl, M., and Windisch, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Feldt, Adolf, assignor.)
- Farbwerke, vorm. Meister Lucius & Brüning. (See Kolle, W., and Binz, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Kränzelin, G., and Corell, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Thiess, K., and Giloy, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Thiess, K., Maenchen, Steindorff, and Giloy, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Wilke, Karl, assignor.)
- Fargo, Charles R., Chicago, Ill., assignor to Wilson-Jones Loose-Leaf Company. Leaf-upsetting device. No. 1,405,993; Feb. 7.
- Fargo, Charles R., Chicago, Ill., assignor to Wilson-Jones Loose Leaf Company. Finishing the raw edges of coated fabric or the like. No. 1,437,505; Dec. 5.
- Fargo, Charles R., and P. O. Unger, assignors to Irving-Pitt Manufacturing Company, Kansas City, Mo. Loose-leaf binder and stand therefor. No. 1,422,950; July 18.
- Fargo, Harry L., Ripon, Wis. Ash receptacle. No. 1,428,686; Sept. 12.
- Farina, Salvador C., West New York, N. J. Airship. No. 1,408,873; Mar. 7.
- Faris, Edwin E., Chattanooga, Tenn. Valve lifter. No. 1,417,370; May 23.
- Farkas, Edmond. (See Deutsch, F. J. and Farkas.)
- Farkas, Edmond. (See Deutsch, Frank J., assignor.)
- Farkas, Eugene J., assignor to Ford Motor Company, Detroit, Mich. Tractor wheel. No. 1,416,949; May 23.
- Farkas, Eugene J., Detroit, assignor to Ford Motor Company, Highland Park, Mich. Detachable tread for tractor wheels. No. 1,423,519; July 25.
- Farkas, Louis L., Astoria, N. Y. Antismearing composition for printing inks. No. 1,439,623; Dec. 19.
- Farley, Catherine I., Exeter, England. Collapsible receptacle. No. 1,407,054; Feb. 21.
- Farley, John W., trustee. (See Tolson, Robert L., assignor.) (Reissue.)
- Farley, John W., Cleveland, Ohio. Ceiling sleeve. No. 1,411,241; Mar. 28.
- Farley, John W., Cleveland, Ohio. Radiator hanger. No. 1,428,767; Sept. 12.
- Farley, Walter J., Manitowoc, Wis. Suspension tackle for boats. No. 1,432,748; Oct. 24.
- Farlow, Brita R. (See Farlow, Nathaniel N., assignor.)
- Farlow, Nathaniel N., assignor of one-half to B. R. Farlow, Pasadena, Calif. Fruit-jar clamp and holder. No. 1,408,184; Feb. 28.
- Farmer, Albert T. (See Parker, Charles A., assignor.)
- Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Self-lubricating angle cock. No. 1,403,756; Jan. 17.
- Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety-car-control equipment. No. 1,403,757; Jan. 17.
- Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Car door and brake control device. No. 1,408,874; Mar. 7.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Angle-cock device. No. 1,409,691; Mar. 14.
- Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Car door and brake control equipment. No. 1,410,289; Mar. 21.
- Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Double-control brake equipment. No. 1,411,688; Apr. 4.
- Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Car door and brake controlling device. No. 1,415,821; May 9.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety car-control equipment. No. 1,417,238; May 23.
- Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automatic train-speed-control device. No. 1,422,844; July 18.
- Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Pneumatic cut-out device. No. 1,424,007; July 25.
- Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Feed-valve device. No. 1,430,893; Oct. 3.
- Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure-brake device. No. 1,432,449; Oct. 17.
- Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure-brake device. No. 1,432,450; Oct. 17.
- Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Control switch for vacuum brake systems. No. 1,439,467; Dec. 19.
- Farmer, Cornelius D., and H. W. Libby, Eugene, Oreg. Road-building machinery. No. 1,439,879; Dec. 26.
- Farmer, Frank H., assignor to The White Motor Company, Cleveland, Ohio. Brake mechanism for motor vehicles. No. 1,431,576; Oct. 10.
- Farmer, Frank T., assignor of one-half to P. N. Farmer, Phoenix, Ariz. Carburetor auxiliary. No. 1,430,966; Oct. 3.
- Farmer, Paul N. (See Farmer, Frank T., assignor.)
- Farmer, Robert Z., Roseburg, Oreg., assignor to Automatic Electric Brake Company. Power-transmitting device. No. 1,416,182; May 16.
- Farmer, Robert Z., and G. S. Marsh, Roseburg, Oreg., assignors to Automatic Electric Brake Company. Car brake. No. 1,416,181; May 16.
- Farmer, Roy E., Los Angeles, Calif. Coffee percolator. (Reissue.) No. 15,480; Oct. 31.
- Farmer, Sir James, & Sons Limited. (See Durot, Albert, assignor.)
- Farmer, Sir James, & Sons Limited. (See Norton, D. G., and Durot, assignors.)
- Farmer, Thomas, Jr., New York, N. Y. Gear indicator. No. 1,417,048; May 23.
- Farmer, Thomas, Jr., New York, N. Y. Speed indicator. No. 1,417,049; May 23.
- Farmers Standard Carbide Co. (See Rogatz, William B., assignor.)
- Farnham, Orma N., Sanish, N. Dak. Spring bed. No. 1,426,972; Aug. 22.
- Farnham, Robert, Philadelphia, Pa. Crosstie. No. 1,426,828; Aug. 22.
- Farnham, Sidney W., assignor to Goodman Manufacturing Company, Chicago, Ill. Controlling device for electric locomotives. No. 1,425,375; Aug. 8.
- Farnsworth, Clare E. (See Morrow, Alfred J., assignor.)
- Farnsworth, Hiland R., assignor to The Sandusky Foundry & Machine Co., Sandusky, Ohio. Feltless wet machine for paper making. No. 1,407,398; Feb. 21.
- Farnsworth, Sidney W., Chicago, Ill., assignor to Westinghouse Electric & Manufacturing Company. Refillable fuse. No. 1,431,940; Oct. 17.
- Farr, Frank G., Fairmont, Minn. Gas generator. No. 1,407,850; Feb. 28.
- Farr, Herman G. (See Martin, C. H., and Farr.)
- Farr, Joseph, St. Catharines, Ontario, Canada. Toy. No. 1,424,453; Aug. 1.
- Farr, Warren H., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Cooling system for internal-combustion engines. No. 1,422,426; July 11.
- Farran, Duncan C., assignor of one-half to G. R. Sheldon, Rowan, Iowa. Chain applicator. No. 1,404,690; Jan. 24.
- Farrand, Hiram A., Merchantville, N. J. Rule. No. 1,402,589; Jan. 3.
- Farrar, Arthur J., and L. D. Putney; said Putney assignor to F. E. Austin, St. Louis, Mo. Fluid transmission. No. 1,431,642; Oct. 10.
- Farrar, James W., assignor to Farrar Motors Corporation, Buffalo, N. Y. Oil burner. No. 1,417,371; May 23.
- Farrar Motors Corporation. (See Farrar, James W., assignor.)
- Farrrel Foundry and Machine Company. (See Bowen, D. R., and Schnuck, assignors.)
- Farrell, A. M. (See Farrell, John J., assignor.)
- Farrell, Ernest, Salford, England. Textile and like drying cylinder. No. 1,425,083; Aug. 8.
- Farrell, John J., Lawrence, Mass., assignor to A. M. Farrell, Philadelphia, Pa. Nut lock. No. 1,427,797; Sept. 5.
- Farrell, Ray P., and C. E. Moon, Oxnard, Calif. Pilot signal for electric heating devices. No. 1,425,462; Aug. 8.
- Farrell, Thomas H., Fort Collins, Colo. Antiwashing construction for roads. No. 1,420,535; June 20.
- Farrell, William, Brooklyn, N. Y. Nut lock. No. 1,438,104; Dec. 5.
- Farrington, Charles E., Philadelphia, Pa. Agitator handle. No. 1,429,071; Sept. 12.
- Farrington, Edward H., Madison, Wis. Butter tester. No. 1,428,020; Sept. 5.
- Farrington, Herbert O. (See Harrison, Arthur W., assignor.)
- Farris, Edmund W., Fargo, N. Dak. Internal-combustion engine. No. 1,432,451; Oct. 17.
- Farris, Joseph, Springfield, Ill. Furnace construction. No. 1,410,664; Mar. 28.
- Farum, Elecie P., Oakland, assignor to D. Lee, San Francisco, Calif. Lock for slidable windows. No. 1,420,993; June 27.
- Faruolo, James, Brooklyn, assignor of one-half to M. Goldbaum, New York, N. Y. Attachment for collars. No. 1,431,387; Oct. 10.

- Farup, Peder, Slemdal, near Christiania, Norway. Destructive distillation of coal and other material. No. 1,414,401; May 2.
- Farwell, Fay O., Dubuque, Iowa. Combination motor and operating the same. No. 1,439,079; Dec. 19.
- Fascl, Sebastiano, South Weymouth, Mass. Automobile signal. No. 1,420,983; June 27.
- Fasoldt, Ernest C., assignor of two-thirds to L. R. Krug, Albany, N. Y. Rheostat. No. 1,429,858; Sept. 19.
- Fassett, Charles, St. Johnsbury, Vt. Bolt. No. 1,429,859; Sept. 19.
- Fassett, Francis K., Dayton, Ohio. Door hanger. No. 1,418,549; June 6.
- Fassio, Julius, San Francisco, Calif. Dishwashing machine. No. 1,414,634; May 2.
- Fasson, Patsy, Mount Pleasant, Pa. Portable building. No. 1,407,462; Feb. 21.
- Fasson, Patsy, Mount Pleasant, Pa. Sword dragon. No. 1,412,679; Apr. 11.
- Fast, Paul, Fresno, Calif. Device for use of the blind in writing. No. 1,426,055; Aug. 15.
- Fasting, Johan S., Frederiksborg, near Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Rotary kiln. No. 1,404,381; Jan. 24.
- Fate, Daisy L., executrix. (See Fate, John L.)
- Fate, John L., deceased; D. L. Fate, executrix, assignor, by mesne assignments, to C. R. Gleason, Chicago, Ill. Apparatus for sealing vacuum jackets. No. 1,423,093; July 18.
- Fath, George H. (See Reifsnnyder, J. D., and Fath.)
- Fathauer, Alvin J., Cleveland, Ohio. Coil-forming apparatus. No. 1,435,284; Nov. 14.
- Fator, Charles D., San Antonio, Tex. Oil-well pump. No. 1,419,495; June 13.
- Fauber, William H., Brooklyn, N. Y. Scavenging system for internal-combustion engines. No. 1,417,310; May 23.
- Faucette, Beale J., Durham, N. C. Yarn-moistening attachment for knitting machines. No. 1,428,021; Sept. 5.
- Faucett, Robert I., Delaware, Ohio. Fan. No. 1,401,972; Jan. 3.
- Fauchon-Villeplee, André L. O., Paris, France. Electric apparatus for propelling projectiles. No. 1,421,435; July 4.
- Fauchon-Villeplee, André L. O., Paris, France. Electric apparatus for propelling projectiles. No. 1,422,427; July 11.
- Faulk, Maximilian N., Philadelphia, Pa. Wheeled toy. No. 1,424,396; Aug. 1.
- Faulkner, Earnest L. (See Frederickson, D. T., and Faulkner.)
- Faulkner, William P., Rosedale, Kans. Locking device for automobiles. No. 1,412,854; Apr. 18.
- Faulkner, William P., Kansas City, Mo. Automobile locking device. No. 1,424,454; Aug. 1.
- Faultless Caster Company. (See Noelting, William H. and C. B., assignors.)
- Faultless Rubber Company, The. (See Hoppes, Carlos D., assignor.)
- Faultless Rubber Company, The. (See Lower, Melvin S., assignor.)
- Faultless Rubber Company, The. (See Miller, Everard F., assignor.)
- Faultless Rubber Company, The. (See Miller, Thomas W., assignor.)
- Faure, Emil, Paris, France. Non-centrifugal inertia turbine. No. 1,402,853; Jan. 10.
- Faurot, Henry, Jr., assignor to Western Felt Works, Chicago, Ill. Window-mounting device. No. 1,421,927; July 4.
- Faurot, Henry, Jr., assignor to Western Felt Works, Chicago, Ill. Window-mounting device. No. 1,422,951; July 18.
- Faurot, Joseph A. (See Skehan, J. J., and Faurot.)
- Faurot, Joseph A. (See Wolfe, C. L., and Faurot.)
- Fausse, Joseph, Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Method and mechanism for handling fastenings. No. 1,431,941; Oct. 17.
- Faust, Edwin S., Basel, Switzerland. Derivatives of camphoric acid. No. 1,406,547; Feb. 14.
- Faust, Elroy C., assignor to The Cyclone Manufacturing Company, Urbana, Ind. Feeding and watering trough. No. 1,438,028; Dec. 5.
- Faust, Elroy C., D. E. Speicher, and R. B. Ullom, Urbana, Ind., assignors to The Cyclone Manufacturing Company. Poultry and stock feeder. No. 1,409,841; Mar. 14.
- Faust, Guy W., Auburn, Pa. Screw driver. No. 1,411,242; Mar. 28.
- Faust, John G., Washington, D. C. Flying machine. No. 1,420,247; June 20.
- Faust, Levin, assignor of one-fourth to A. P. Hard, one-fourth to E. S. Ekstrom and one-fourth to C. Swenson, Rockford, Ill. Hinge. No. 1,433,607; Oct. 31.
- Faust, Lewis A., Roselle Park, N. J. Injector valve. No. 1,420,419; June 20.
- Faust, Rudolph, Brooklyn, N. Y. Stove polish. No. 1,403,758; Jan. 17.
- Faustina, Joseph B. (See Pattberg, G. A., and Faustina.)
- Favilla, John, New York, N. Y. Banjo. No. 1,405,771; Feb. 7.
- Favre-Bulle, Maurice P., Paris, France. Electromagnetic clock. No. 1,411,243; Mar. 28.
- Favre-Bulle, Maurice P., Boulogne, and M. A. Moulin, deceased, Besancon, by E. M. M. Moulin, née Chenard, Paris, France, guardian of M. O. Moulin and M. A. A. Moulin, sole minor heirs of said M. A. Moulin. Electromagnetic clock. No. 1,432,989; Oct. 24.
- Favre-Bulle, Philippe M., Boulogne-sur-Seine, France. Rotary speed indicator. No. 1,414,268; Apr. 25.
- Favre, Edouard. (See Frey, Alfred, assignor.)
- Favreau, Walter, New York, N. Y. Educational and entertaining device. No. 1,405,193; Jan. 31.
- Fawcett, Arthur J., Myrtle Creek, Oreg. Spring shield for nursing bottles. No. 1,429,198; Sept. 12.
- Fawcett, Harry G. (See Kastler, Edward L., assignor.)
- Fawver, William J., Patesville, Ky. Clock escapement. No. 1,423,410; July 18.
- Fay, Bernard, Danbury, Conn. Safety appliance for railway block systems. No. 1,432,325; Oct. 17.
- Fay, Charles H., Newark, N. J. Insert for cement or similar floors. No. 1,419,548; June 13.
- Fay, Frank A., Caldwell, assignor to William E. Quimby, Inc., Newark, N. J. Screw pump. No. 1,430,894; Oct. 3.
- Fay, Harold J. W., Westboro, Mass., assignor to Submarine Signal Company, Portland, Me. Ship protection. No. 1,416,950; May 23.
- Fay, James T., and L. B. Grasberger, Richmond, Va. Feed roller. No. 1,416,404; May 16.
- Fay, John L., assignor of one-half to W. S. Ireland, St. Louis, Mo. Renewable fuse. No. 1,428,768; Sept. 12.
- Fay, Joseph G., assignor of eight per cent to J. K. McDowell and eight per cent to N. F. Nahhas, Seattle, Wash. Change-speed gearing. No. 1,428,326; Sept. 5.
- Fay, Joseph W., assignor to Seamweld Equipment Company, Milwaukee, Wis. Electrode. No. 1,416,183; May 16.
- Fay, Joseph W., assignor to Fred Pabst Company, Milwaukee, Wis. Chill. No. 1,435,919; Nov. 21.
- Fay, Nahum and N. A. Rio Vista, Calif. Conveyor for barges and similar vessels. No. 1,437,506; Dec. 5.
- Fay, Nellie L., assignor of one-half to L. E. Scofield, New York, N. Y. Brassière. No. 1,420,248; June 20.
- Fay, Norvin A. (See Fay, Nahum and N. A.)
- Faye, William E., assignor of one-half to A. F. B. Murray, Toronto, Ontario, Canada. Match. No. 1,402,754; Jan. 10.
- Fayer, Charles, New York, N. Y., assignor to Wappler Electric Co., Inc. X-ray machine. No. 1,409,439; Mar. 14.
- Fayle, Wilfred H., and W. G. Crowle, Chisholm, Minn. Fuse for electric irons. No. 1,416,008; May 16.
- Fazendin, Leonard J., Orillia, Ontario, Canada. Soldering-iron heater. No. 1,411,333; Apr. 4.
- Fazio, James I., Youngstown, Ohio. Cigarette receptacle. No. 1,436,157; Nov. 21.
- Fearhelley, Fred F. (See Gumber, J., and Fearhelley.)
- Fearnow, Edgar C., Capitol Heights, Md. Container for transporting live fish. No. 1,419,549; June 13.
- Fearnow, Edgar C., Capitol Heights, Md. Container for transporting and storing live fish, fish fry, and fish eggs. No. 1,435,457; Nov. 14.
- Featherman, Irvin A., Brooklyn, N. Y. Casting corners for metal beds. No. 1,416,343; May 16.
- Febre, Leo, Expo, Va. Wheel rim. No. 1,431,457; Oct. 10.
- Fecher, Frederick F. (See Danheiser, T., and Fecher.)
- Fedak, Wasyl, et al. (See Sharp, Jacob, assignor.)
- Fedderwitz, Diedrich B. (See Goebel, Boyd W., assignor.)
- Feder, David P. (See Kimball, Matthew D., assignor.)
- Feder, Joseph B., East Orange, N. J. Electric heater for railway switches. No. 1,429,726; Sept. 19.
- Feder, Tobias M., Brooklyn, N. Y. Electric heater. No. 1,426,166; Aug. 15.
- Federal Adding Machine Corporation. (See Spiro, Charles, assignor.)
- Federal Automobile and Body Painting and Trimming Co. (See Kutschmar, John F., assignor.)
- Federal Battery Manufacturing Corporation. (See Drambourg, Rudolphe, assignor.)
- Federal Cement Tile Company. (See Baumgartl, Leroy, assignor.)
- Federal Cement Tile Company. (See Geyer, George, assignor.)
- Federal Electric Company. (See Mars, Thomas H., assignor.)
- Federal Electric Company. (See Powell, Raymond E., assignor.)
- Federal Electric Company. (See White, Bruce C., assignor.)
- Federal Finance Corporation. (See Choate, William E., assignor.)
- Federal Motor Truck Company. (See Knowles, George F., assignor.)
- Federal Phosphorus Company. (See Carothers, John A., assignor.)
- Federal Products Company. (See Coates, Frederick, assignor.)
- Federal Products Corporation. (See Green, Joseph A., assignor.)
- Federal Sign System (Electric). (See Erickson, James V. E., assignor.)
- Federal Stamping Company. (See Olinger, Thomas, assignor.)
- Federal System of Bakeries of America, Inc. (See Mielville, Herbert C., assignor.)

Alphabetical list of patentees—Continued.

- Federal Telephone and Telegraph Co. (See Garretson, Eugene, assignor.)
- Federated Engineers Development Corporation. (See Frankenfeld, Leo, assignor.)
- Fedorow, Peter, and J. Korpan, Chicago, Ill. Automobile tender. No. 1,438,029; Dec. 5.
- Fee, Charles M., Fulton, Mo. Attachment for pug mills. No. 1,419,833; June 13.
- Fee, Orlando M., La Manda Park, Calif. Musical notation. No. 1,424,718; Aug. 1.
- Feederle, Fidel, assignor to Waffenfabrik Mauser Aktiengesellschaft, Oberndorf-on-the-Neckar, Germany. Firearm. No. 1,413,109; Apr. 18.
- Feederle, Fidel, assignor to Waffenfabrik Mauser, Aktiengesellschaft, Oberndorf-on-the-Neckar, Germany. Automatic pistol. No. 1,427,097; Aug. 29.
- Feeney, John M., Bridgeport, Conn. Adjustable crank. No. 1,427,798; Sept. 5.
- Feeny, Edmund J., Muncie, Ind. Automobile radiator. No. 1,424,455; Aug. 1.
- Fees, William L., Elyria, Ohio. Nut lock. No. 1,410,290; Mar. 21.
- Fegley, Thomas J., and W. S. Snyder, assignors to North Bros. Mfg. Co., Philadelphia, Pa. Screw driver. No. 1,415,822; May 9.
- Fegley, Thomas J., and W. S. Snyder, assignors to North Bros. Mfg. Co., Philadelphia, Pa. Screw driver. No. 1,424,456; Aug. 1.
- Fegley, Victor, Jersey City, N. J., assignor to Phonograph Control Corporation, Wilmington, Del. Talking machine. No. 1,416,549; May 16.
- Fegely, John P., and J. H. Newhard, Allentown, Pa. Vise. No. 1,435,595; Nov. 14.
- Fegraeus, Ernst, Partillo, Gottenborg, Sweden. Sciopion apparatus. No. 1,424,457; Aug. 1.
- Fehler, Otto, Berlin-Steglitz, Germany. Electric advertising sign. No. 1,428,424; Sept. 5.
- Felman, Bernard K., Denver, Colo. Underreamer. No. 1,420,918; June 27.
- Fehr, Edmund, Harlesden, London, England. Rotary clutch. No. 1,403,678; Jan. 17.
- Fehr, Frank, Louisville, Ky. Elevator-hatchway seal. No. 1,406,951; Feb. 14.
- Fehring, Emil A., Chicago, Ill. Stop and turn signal for vehicles. No. 1,415,538; May 9.
- Feigelson, Alexander, Beaumont, Tex. Trailer. No. 1,439,880; Dec. 26.
- Feigenbaum, David, Brooklyn, N. Y. Collar support. No. 1,414,119; Apr. 25.
- Feigler, Sander, Pittsburgh, Pa. Metallic table. No. 1,425,582; Aug. 15.
- Felhl, Frederick W., Cleveland, Ohio. Contest schedule or the like. No. 1,431,577; Oct. 10.
- Feltnberg, Jacob, New York, N. Y. Safety retaining means. No. 1,404,946; Jan. 31.
- Feindt, Henry J., West Orange, N. J. Divider. No. 1,438,173; Dec. 12.
- Feinen, Nicholas, Buffalo, N. Y. Snap switch. No. 1,429,860; Sept. 19.
- Feist, Charles M., Sioux City, Iowa. Self-lubricating bearing or axle. No. 1,428,425; Sept. 5.
- Feist, Charles M., Sioux City, Iowa. Combined holder, indicating and advertising means. No. 1,436,583; Nov. 21.
- Feldblet, Herman L., and J. R. O'Donnell, New York, N. Y. Stair construction. No. 1,427,276; Aug. 29.
- Feldcamp, George, et al. (See Werts, William D., assignor.)
- Feldenheimer, William, London, England. Treatment of clay and product thereof. No. 1,438,587; Dec. 12.
- Feldenheimer, William, London, assignor of one-half to W. W. Plowman, East Sheen, Surrey County, England. Treatment of clay. No. 1,438,588; Dec. 12.
- Felder, William A., West Collingswood, assignor to Taylor White Extracting Company, Camden, N. J. Logwood dyeing. No. 1,412,024; Apr. 4.
- Feldkamp, Frederick A., Newark, assignor of one-half to R. H. Amberg, Bloomfield, N. J. Incandescent lamp. No. 1,433,807; Oct. 31.
- Feldkamp, George A., Cincinnati, Ohio. Tire. No. 1,413,714; Apr. 25.
- Feldman Machine Works, Inc. (See Kornas, Joseph, assignor.)
- Feldmeier, Harvey, assignor to D. H. Burrell & Co., Inc., Little Falls, N. Y. Regulator for centrifugal separators. No. 1,429,331; Sept. 19.
- Feldmeier, Harvey, and C. B. Dalzell, assignors to D. H. Burrell & Co., Inc., Little Falls, N. Y. Combined churn and butter worker. No. 1,419,033; June 6.
- Feldt, Adolf, Frankfurt-on-the-Main, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Complex aminoaragontomercaptobenzenecarboxylic acid and making same. No. 1,439,624; Dec. 19.
- Felheim, Emanuel, Lichtenrade, near Berlin, Germany. Homogeneous durable mixture of cocoa and calcium chloride and producing the same. No. 1,411,618; Apr. 4.
- Felix, Edwin, Chicago, Ill. Extensible tool. No. 1,412,235; Apr. 11.
- Felker, Jessie W., Iowa City, Iowa. Doll structure. No. 1,402,345; Jan. 3.
- Fell, Charles, Lorain, Ohio, assignor to National Tube Company, Pittsburgh, Pa. Method of and apparatus for expanding and straightening pipe ends. No. 1,431,883; Oct. 10.
- Fell, Frank J., Detroit, Mich. Combined shade and curtain-rod holder. No. 1,431,786; Oct. 10.
- Fell, Robert L. (See Frazier, George E., assignor.)
- Feller, Adolf E., Oakland, assignor, by mesne assignments, to R. W. Michael, San Francisco, Calif. Fuel check and lock for carburetors. No. 1,432,103; Oct. 17.
- Feller, Wenzel, Dinslaken, Germany. Step-by-step rolling mill. No. 1,413,715; Apr. 25.
- Fellmann, Gustav A., and J. L. Sinning, Brooklyn, N. Y. Cabinet for holding phonograph records and similar articles. No. 1,438,524; Dec. 12.
- Fellows, Daniel W., Los Angeles, Calif. Adjustable tread stairs. No. 1,419,834; June 13.
- Fellows, Perry E., Rochester, N. Y. Tightening device for antiskid chains. No. 1,423,202; July 18.
- Fels, Hattie, New York, N. Y. Garment. No. 1,414,349; May 2.
- Fels, Walter T., assignor of one-half to J. Ferber, Mount Vernon, N. Y. Plastic composition. No. 1,419,665; June 13.
- Fels, William, assignor to M. Nydegger, Elizabeth, N. J. Power-transmission mechanism. No. 1,435,596; Nov. 14.
- Felski, Walter. (See Brzyski, J., and Felski.)
- Felt & Tarrant Mfg. Co. (See Turck, Joseph A. V., assignor.)
- Felten, Charles H., West Hoboken, N. J. Disposal can. No. 1,427,525; Aug. 29.
- Feltes, Louis J. (See Ryan, D. J., and Feltes.)
- Fenaes, Alfred R., and W. H. Kennedy, Houston, Tex. Lubricating-oil dispenser. No. 1,418,142; May 30.
- Fender, Thomas. (See McKechnie, J., and Fender, assignor.)
- Fendrich, Adam E., Weehawken, N. J. Toothbrush. No. 1,430,967; Oct. 3.
- Fenelon, Martin J., Chicago, Ill. Vehicle washing machine. No. 1,423,844; July 25.
- Fenicle, Frank J., Easton, Pa. Split pin. No. 1,416,700; May 23.
- Fenimore, George W., Los Angeles, Calif. Calendar. No. 1,439,080; Dec. 19.
- Fenley, John R., Nacogdoches, Tex. Boll-weevil exterminator. No. 1,431,108; Oct. 3.
- Fenn, Emory W., Chicago, Ill., assignor to The Peelle Company, Brooklyn, N. Y. Elevator door. No. 1,424,287; Aug. 1.
- Fenn, Emory W., Chicago, Ill., assignor to The Peelle Company, Brooklyn, N. Y. Pass-type elevator door. No. 1,424,288; Aug. 1.
- Fenn, William H., and O. E. Groshell, assignors to Manufacturers' Contracting Company, Wilmington, Del. Duplicating device for adding machines. No. 1,432,169; Oct. 17.
- Fennimore, Frank M. B., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Expanding mandrel. No. 1,433,992; Oct. 31.
- Fennimore, Watson D., San Francisco, Calif. Display card. No. 1,421,196; June 27.
- Fenno, Charles C., White Plains, N. Y. Wrist cigarette case. No. 1,434,775; Nov. 7.
- Fenton, Cecil, Brocton, England. Target for small-arms practice. No. 1,415,823; May 9.
- Fenton, Cecil, Brocton, England. Target for small-arms practice. No. 1,424,632; Aug. 1.
- Fenton, James T., Salt Lake City, Utah. Sulphur extraction. No. 1,409,338; Mar. 14.
- Fenton, James T., Salt Lake City, Utah. Process of and apparatus for distilling. No. 1,424,998; Aug. 8.
- Fenton, James T., Salt Lake City, Utah. System of feeding material to treating chambers. No. 1,432,170; Oct. 17.
- Fenton, John F., Kansas City, Kans. Holdup frustrator. No. 1,407,399; Feb. 21.
- Fenton, John F., Bethel, Kans. Knockdown holdup frustrator for automobiles. No. 1,433,708; Oct. 31.
- Fenton, William T., et al., trustees. (See Stephenson, Leigh J., assignor.)
- Fentress, James, Chicago, Ill. Die track for forming spiral steel tubing. No. 1,417,050; May 23.
- Fentress, James A., Norfolk, Va. Window. No. 1,418,550; June 6.
- Fenzl, R. A. (See Kaschtovsky, Alvis, assignor.)
- Ferber, Jacob. (See Fels, Walter T., assignor.)
- Ferch, Fred F., Joplin, Mo. Adjustable stove leg. No. 1,419,835; June 13.
- Ferdinand Gros & Bouchardy. (See Guye, Philippe A., assignor.)
- Ferdon, Guy W., Cresskill, N. J. Towel service cabinet. No. 1,405,194; Jan. 31.
- Ferdon, Guy W., Cresskill, N. J. Roller-towel cabinet. No. 1,408,283; Feb. 28.
- Ferencz, José, Curitiba, Parana, Brazil. Tube mill. No. 1,428,687; Sept. 12.
- Ferge, Harry, and A. Wuchterl, Milwaukee, Wis. Record cabinet. No. 1,436,026; Nov. 21.
- Ferguson, Acheson, Belfast, Ireland. Block used for building purposes. No. 1,405,574; Feb. 7.
- Ferguson, Charles T., New York, N. Y. Trousers press. No. 1,428,769; Sept. 12.
- Ferguson, Fergus R. (See Kreusler, J. L., and Ferguson.)
- Ferguson, George, Wollaston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for producing rubber soles. No. 1,406,358; Feb. 14.

- Ferguson, George, assignor to Apeldoornsche Machinefabriek en Metaalgietterij voorheen Loog Landaal, Apeldoorn, Netherlands. Compression refrigerating machine. No. 1,410,394; Mar. 21.
- Ferguson, George, Wollaston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe sole. No. 1,425,517; Aug. 15.
- Ferguson, George, Wollaston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe and making it. No. 1,425,518; Aug. 15.
- Ferguson, George B., New Bedford, Mass. Folding shingle. No. 1,410,903; Mar. 28.
- Ferguson, George B., New Bedford, Mass. Hinged-shingle strip. (Reissue.) No. 15,439; Aug. 29.
- Ferguson, George E., and L. E. Eckelmann, New York, N. Y., assignors to Pyrene Manufacturing Company. Fire-extinguishing agent. No. 1,421,436; July 4.
- Ferguson, Henry G., Hutchinson, Kans. Outlet device for grain cars. No. 1,410,743; Mar. 28.
- Ferguson, John L., Joliet, assignor to The Quaker Oats Company, Chicago, Ill. Carton-sealing machine. No. 1,423,094; July 18.
- Ferguson, John L., Joliet, assignor to The Quaker Oats Company, Chicago, Ill. Conveyer. No. 1,423,095; July 18.
- Ferguson, John L., Joliet, assignor to The Quaker Oats Company, Chicago, Ill. Transfer mechanism. No. 1,423,096; July 18.
- Ferguson, John L., Joliet, assignor to The Quaker Oats Company, Chicago, Ill. Carton-handling apparatus. No. 1,423,097; July 18.
- Ferguson, John L., Joliet, Ill. Device for operating on containers. No. 1,423,098; July 18.
- Ferguson, Mark S. (See Richardson, C. F., and Ferguson.)
- Ferguson, Oscar J. V., Seattle, Wash. Collar clip. No. 1,431,388; Oct. 10.
- Ferguson, Patrick A. (See Roth, A., and Ferguson.)
- Ferguson, Robert B., Howell, Mich., assignor to G. E. Harpham, Los Angeles, Calif. Combination pliers. No. 1,428,884; Sept. 12.
- Ferguson, Thomas F., Hollywood, Ala. Water gate. No. 1,416,628; May 16.
- Ferguson, Thomas R. (See Briel, Charles, assignor.)
- Fergusson, Robert, Portland, Ore. Fine-gold-saving machine. No. 1,435,825; Nov. 14.
- Feriani, Gaetano, Belluno, assignor to Societa Brevetti Feriani, Rome, Italy. Internal-combustion engine. No. 1,428,426; Sept. 5.
- Ferlin, John J. (See Zanon, Remo C., assignor.)
- Fernald, Dana, New York, N. Y., assignor to Perez M. Stewart, trustee, Pasadena, Calif. Refrigerating tank or vessel. No. 1,412,802; Apr. 11.
- Fernald Manufacturing Company. (See Wolfe, Samuel C., assignor.)
- Fernald, Mark E. (See Blake, C. C., and Fernald.)
- Fernald, Mark E., Saugus, assignor to C. C. Blake, Incorporated, Boston, Mass. Making cutting dies. No. 1,403,238; Jan. 10.
- Fernald, Mark E., Saugus, Mass. Making leaders, gears, and the like. No. 1,431,787; Oct. 10.
- Fernald, Burton J., et al. (See McFarland, William M., assignor.)
- Fernández, Louis Z., San Antonio, Tex. Flash lamp. No. 1,406,832; Feb. 14.
- Fernández, Venerando, Habana, Cuba. Automobile guard. No. 1,421,437; July 4.
- Ferngren, Enoch T., Beaver, Pa. Treating and working glass. No. 1,415,824; May 9.
- Ferngren, Enoch T., Washington, D. C., assignor to Hartford-Fairmont Company. Apparatus for feeding glass to molds. No. 1,414,561; May 2.
- Fernholtz, Frederick W., Los Angeles, Calif. Mechanism for converting rotary motion into reciprocating motion. No. 1,420,826; June 27.
- Fernow, Bernhard E., Jr., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electromagnetic brake. No. 1,410,395; Mar. 21.
- Ferold, William, Millis, Mass. Boat stern for detachable motors. No. 1,409,937; Mar. 21.
- Ferolite Limited. (See Clapp, Harry B., assignor.)
- Ferragamo, Salvatore, Santa Barbara, Calif. Turnbuckle. No. 1,413,328; Apr. 18.
- Ferrara, Antonio, Torrington, Conn. Lock. No. 1,421,197; June 27.
- Ferrari, Charles G., Philadelphia, Pa. Preservative waterproof and moldproof compound for wrapped food products and producing the same. No. 1,407,400; Feb. 21.
- Ferreby, Rolla B., administrator. (See Barker, Wendell A.)
- Ferreira, Manuel J., New Bedford, Mass. Composition for treatment of leather roller surfaces. No. 1,403,944; Jan. 17.
- Ferreira, Waldo N. (See Crawley, Courtland J., assignor.)
- Ferrel, Gerald W., Kalamazoo, Mich. Bracket. No. 1,418,551; June 6.
- Ferrell, Albert R., Chevy Chase, Md. Window-sash operating and locking mechanism. No. 1,407,055; Feb. 21.
- Ferrell, George W., Appleton, Tenn. Harrow. No. 1,415,825; May 9.
- Ferrier, George B. (See Mackay, Alfred, assignor.)
- Ferrier, Peter, Brisbane, Queensland, Australia. Spring. No. 1,403,153; Jan. 10.
- Ferrier, Peter H., Jr., Chicago, Ill. Boiler. No. 1,416,805; May 23.
- Ferrier, Peter H., Jr., Chicago, Ill. Door bolt. No. 1,418,143; May 30.
- Ferrier, Walter, Elyria, Ohio. Nose-forming machine. No. 1,436,489; Nov. 21.
- Ferrière, Gustave, and S. Pfyffer, Zurich, Switzerland; said Ferrière assignor to said Pfyffer. Solder for aluminum and its alloys. No. 1,437,641; Dec. 5.
- Ferrill, Charlie I., Clinton, Ill. Gate latch. No. 1,411,963; Apr. 4.
- Ferris, Anthony, et al. (See Austin, Albert L., assignor.)
- Ferris, Ervie A., Westwood, Calif. Hair curler. No. 1,436,490; Nov. 21.
- Ferris, Floyd A., Dallas, Tex. Order-filling counter. No. 1,421,679; July 4.
- Ferris, Howard J., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Overhead switch. No. 1,403,853; Jan. 17.
- Ferris, Isaac L., assignor to The Bridgeport Metal Goods Manufacturing Company, Bridgeport, Conn. Flash light. No. 1,439,408; Dec. 19.
- Ferris, Jesse L., La Crosse, Wis. Automatic valve. No. 1,412,465; Apr. 11.
- Ferris, Munez C., assignor to E. F. Boyle, Brooklyn, N. Y. Apparatus for treating music sheets. No. 1,429,727; Sept. 19.
- Ferris, Thomas H., Brooklyn, N. Y. Sink fitting. No. 1,436,027; Nov. 21.
- Ferris, Walter, assignor to Bucyrus Company, South Milwaukee, Wis. Jib hoist and automatic interlocking device for locomotive cranes and the like. No. 1,428,539; Sept. 12.
- Ferris, Walter, assignor to Bucyrus Company, South Milwaukee, Wis. Excavator and loader. No. 1,428,540; Sept. 12.
- Ferris, Walter, Milwaukee, and S. R. W. M. Bager, assignors to Bucyrus Company, South Milwaukee, Wis. Rope-thrusting shovel. No. 1,430,297; Sept. 26.
- Ferris, Walter, Milwaukee, and S. R. W. M. Bager, assignors to Bucyrus Company, South Milwaukee, Wis. Rope-thrusting shovel. No. 1,430,298; Sept. 26.
- Ferris, William E., Cleveland, Ohio, assignor to The Ohio Trailer Company. Means for coupling trailers to motor vehicles. No. 1,433,265; Oct. 24.
- Ferris, William E., Cleveland, Ohio, assignor to The Ohio Trailer Company. Automobile trailer coupling. No. 1,437,836; Dec. 5.
- Ferro Chemicals Inc. (See McElroy, Karl P., assignor.)
- Ferry, Daniel, Pittsburgh, Pa. Clamshell bucket. No. 1,404,515; Jan. 24.
- Ferry, Gilbert E., Omaha, Nebr. Shock absorber for screen doors. No. 1,436,871; Nov. 28.
- Ferry, Henry M., Detroit, Mich. Vehicle wheel and scraper for same. No. 1,430,968; Oct. 3.
- Fesca, C. A., & Sohn. (See von May, Leopold, assignor.)
- Fesler, Douglas F., Evanston, Ill., assignor, by mesne assignments, to The Bassick Manufacturing Company. Lubricating system. No. 1,408,573; Mar. 7.
- Fesler, Milton A., Oakland, Calif., assignor to Petroleum Heat and Power Company. Burner. No. 1,415,434; May 9.
- Fessenden, De Witt H., New York, N. Y. Hollow building block. No. 1,419,623; June 13.
- Fessenden, Reginald A., Newton, Mass. Method and apparatus for inspecting materials. No. 1,414,077; Apr. 25.
- Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Method and apparatus for submarine signaling. No. 1,415,539; May 9.
- Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Method and apparatus for detecting, measuring, and utilizing low-frequency impulses. No. 1,429,497; Sept. 19.
- Fesser, Henry W., Sacramento, Calif. Card holder. No. 1,415,540; May 9.
- Fessler, Otto, Irvington, N. J. Bracelet link. No. 1,422,428; July 11.
- Fest, Adolph D., Chicago, Ill. Recovering solid or liquid matter from a solution or semisolution containing same. No. 1,414,562; May 2.
- Festa, A. G. (See Bruman, Otto F., assignor.)
- Festa, A. G. (See Graetzer, O., and Bruman, assignors.)
- Fetcher, Theophil J., assignor of one-half to A. Zellmer, Norwalk, Wis. Clutch-lever holder. No. 1,404,748; Jan. 31.
- Feth, Edward L. (See Krieter, W. J., and Feth.)
- Fetherolf, Charles W., Worcester, Mass. Machine for and method of making printing plates. No. 1,438,589; Dec. 12.
- Fetter, Edward, Baltimore, Md. Self-healing tube. No. 1,427,277; Aug. 29.
- Fetter, Edward, Baltimore, Md. Self-healing tube. No. 1,427,278; Aug. 29.
- Fetter, John D., Conshohocken, Pa. Drill and wrench. No. 1,435,111; Nov. 7.
- Fetterly, John F., Altoona, Pa. Drilling jig. No. 1,430,895; Oct. 3.
- Fetterman, Charles R., Butte, Mont. Camping furniture. No. 1,407,463; Feb. 21.
- Fetters, Arthur H. (See Sisson, V. E., and Fetters.)
- Fetters, Charles A., Washington, D. C. Reversible sign. No. 1,418,144; May 30.

Alphabetical list of patentees—Continued.

- Fetzer, Charles A. (See Herbert, W. J. S., and Fetzer.)
 Fetzer, William, and J. G. Freres, Springfield, and O. A. Elliott, Marion, assignors to International Sanitation & Development Company, Springfield, Ill. Incinerator. No. 1,404,749; Jan. 31.
 Feucht, Christian G., Brooklyn, N. Y. Railway switch. No. 1,432,104; Oct. 17.
 Feucht, Otto H., St. Louis, Mo. Grinder. No. 1,418,433; June 6.
 Feuerstein, Cornelis J., Zwolle, Netherlands. Circular weaving machine. No. 1,416,344; May 16.
 Feuillette, Emile, assignor to La Societe des Etablissements E. Feuillette, Boulogne-sur-Seine, France. Tractor wheel. No. 1,422,952; July 18.
 Feulner, John, Middletown, Conn. Neckband. No. 1,440,347; Dec. 26.
 Fey, Edmund C., San Francisco, Calif. Self-cocking pistol. No. 1,415,326; May 9.
 Fey, Joseph B., Cincinnati, Ohio. Horn attachment. No. 1,437,049; Nov. 28.
 Feyer, Justus, Barmen, Germany. Elastic driving mechanism. No. 1,408,449; Mar. 7.
 Feyk, Anton. (See Dusha, P. F., and Feyk.)
 Fial, Wojciech, Harvey, W. Va. Safety device for automobiles. No. 1,424,633; Aug. 1.
 Fial, Wojciech, Harvey, W. Va., assignor of one-half to E. Nicolussi, Glendire, Mont. Vehicle stopping device. No. 1,419,366; June 13.
 Fiala, Rudolph M., Howell, Nebr. Antiskid or traction chain for wheels. No. 1,410,396; Mar. 21.
 Fiberloid Corporation et al., The. (See Brooks, Benjamin T., assignor.)
 Fi-Bo-Pak Company. (See Kondolf, Mathias R., assignor.)
 Fibre Container Company. (See Walter, Harrison B., assignor.)
 Fibre Corporation Limited, The. (See Michot, Georges, assignor.)
 Fich, Alfred B. A., Copenhagen, Denmark. Preserving food. No. 1,420,373; June 20.
 Fich, Alfred B. A., Copenhagen, Denmark. Metal container and the like. No. 1,427,152; Aug. 29.
 Fichten, Frank M., Manitowoc, Wis. Traction lug. No. 1,416,806; May 23.
 Fickert, Gustav R., Hoboken, N. J. Belt calculator. No. 1,437,298; Nov. 28.
 Ficklen, William E., Norfolk, Va. Concrete wearing surface. No. 1,432,171; Oct. 17.
 Fidelity Brass Manufacturing Company. (See Strobot, John J., assignor.)
 Fidelity Machine and Manufacturing Co. (See Larkin, Walter, assignor.)
 Fidlerius, Joseph P., Cleveland, Ohio. Portable doorstop. No. 1,408,316; Feb. 28.
 Fidler, Harry, Philadelphia, Pa. Infant's bed clothing. No. 1,425,952; Aug. 15.
 Fidora, Mario C., Turin, Italy. Spring stretcher with compressible grips for rationally developing the human physical strength. No. 1,421,198; June 27.
 Fiebig, Max, Breslau, Germany. Bent dowel for timber joints. No. 1,436,584; Nov. 21.
 Fiechtl, Ferdinand, Cherryvale, Kans. Vertical smelting furnace. No. 1,422,684; July 11.
 Fiechtl, Ferdinand, Cherryvale, Kans. Charging car. No. 1,423,314; July 18.
 Fiehler, Paul T., Maplewood, Mo. Nut lock. No. 1,413,976; Apr. 25.
 Field, Alexander W., Gleichen, Alberta, Canada. Lubricating pitman. No. 1,431,222; Oct. 10.
 Field, Arthur J. (See Warren, N. J., and Field.)
 Field, Crosby, Wappingers Falls, N. Y., assignor to Chemical Machinery Corporation. Heating at high temperatures. No. 1,403,471; Jan. 10.
 Field, Crosby, Washington, D. C., assignor to Chemical Machinery Corporation, New York, N. Y. Drying process and apparatus. No. 1,423,928; July 25.
 Field, Edward B., and A. F. Hunt, Oakland, Calif. Cigar cutter. No. 1,434,599; Nov. 7.
 Field, Eligah H., assignor of one-half to J. T. Scales, Buffalo, Ga. Fire alarm. No. 1,430,067; Sept. 26.
 Field, Henry F., and S. F. Burgoine, London, England. Means for cutting tubes. No. 1,403,901; Jan. 17.
 Field, John C., Butte, Mont. Fly swatter. No. 1,420,536; June 20.
 Field, Joseph C., Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Railway signaling system. No. 1,434,776; Nov. 7.
 Field, Michael B., assignor to Kelvin Bottomley & Baird Limited, Glasgow, Scotland. Mariner's compass. No. 1,419,836; June 13.
 Field, Oscar S., Roselle, N. J., assignor to Hall Switch & Signal Co. Three-position operating mechanism. No. 1,421,769; July 4.
 Field, Samuel, assignor to The Metals Extraction Corporation, Limited, London, England. Purification of metallic solutions. No. 1,429,131; Sept. 12.
 Field, Timan H., Rice Lake, Wis. Motor mounting. No. 1,431,884; Oct. 10.
 Field, William A., Chicago, Ill. Adjustable handle. No. 1,429,940; Sept. 26.
 Field, William K., Decatur, Ill. Means for feeding and mixing powdered coal and air. No. 1,410,246; Mar. 21.
 Field, William S., assignor to Sanitas Twin Tooth Brush Corp., New York, N. Y. Toothbrush. No. 1,421,199; June 27.
 Fieldman, Samuel, New York, N. Y. Cheese mold. No. 1,418,242; May 30.
 Fields, James Y., assignor of one-half to T. Y. Milburn, Durham, N. C. Lapping machine. No. 1,418,552; June 6.
 Fields, Jess B. (See Douthitt, Earl J., assignor.)
 Fields, Joe, Clendenin, W. Va. Nut lock. No. 1,403,902; Jan. 17.
 Fields, William E., Woodmont, assignor of one-third to J. Gittings, Montgomery County, Md., and one-third to C. Payne, Washington, D. C. Trolley harp. No. 1,432,452; Oct. 17.
 Fierlein, Albert L., Batavia, Ill. Submarine toy. No. 1,402,155; Jan. 3.
 Fiese, Jesse T., Fresno, Calif. Tire pump. No. 1,414,808; May 2.
 Fiese, Jesse T., assignor to Lisenby Manufacturing Company, Fresno, Calif. Adjustable bail. No. 1,413,842; Apr. 25.
 Fife, Harry E., Lansing, Mich. Supporting device for vehicle bodies. No. 1,418,634; June 6.
 Fifield, Albert F., Newark, N. J., assignor to The Singer Manufacturing Company. Thread cutter for sewing machines. No. 1,401,973; Jan. 3.
 Fifield, Albert F., Newark, N. J., assignor to The Singer Manufacturing Company. Clamp for sewing machines. No. 1,404,750; Jan. 31.
 Fifield, Albert F., Newark, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Stitch-forming mechanism for chain-stitch sewing machines. No. 1,421,438; July 4.
 Fifth Avenue Corset Company. (See Leonard, Joseph, assignor.)
 Fifth Avenue Corset Company. (See Margolis, Louis, assignor.)
 Figarsky, Louis, Brooklyn, N. Y. Soft-collar holder. No. 1,425,953; Aug. 15.
 Figielek, A., Centralia, Ill. Toenail-growing guide. No. 1,420,085; June 20.
 Fike, Oliver, Madisonville, Ky. Scraper. No. 1,420,919; June 27.
 Filbert, Harry M. (See Collison, J. G., Wright, Filbert, and Frank.)
 Filer, John M., and S. E. Rupe, Altoona, Pa. Dental flask clamp. No. 1,435,826; Nov. 14.
 Filkins, Arthur J., Chicago, Ill. Chimney. No. 1,430,068; Sept. 26.
 Filkins, Charles D., Schenectady, N. Y., assignor to General Electric Company. Connection for electrical apparatus. No. 1,422,429; July 11.
 Fillis, James, Brooklyn, N. Y. Pipe coupling. No. 1,430,969; Oct. 3.
 Fillmore, W., Company. (See Chapman, Ernest L., assignor.)
 Filonowicz, Victor, Saginaw, Mich. Hinge. No. 1,427,279; Aug. 29.
 Filor, Charles F., Trenton, N. J. Adjustable handle bar for bicycles. No. 1,413,463; Apr. 18.
 Finazzo, Biagio, Brooklyn, N. Y. Amusement device. No. 1,437,299; Nov. 28.
 Finch, Frank A. (See Parks, F. M., and Finch.)
 Finch, Herbert I., assignor to The Emerson Electric Manufacturing Company, St. Louis, Mo. Electric-motor short-circuiting mechanism. No. 1,435,827; Nov. 14.
 Finch, John W. (See Haugh, T. M., Schilling, and Finch.)
 Finch, John W., El Reno, and W. A. Talley, Shawnee, Okla. Attachment for straight-air brake valves. No. 1,418,434; June 6.
 Finch, Nelson W., Chicago, Ill. Combined cushion and pneumatic tire. No. 1,427,897; Sept. 5.
 Finch, Stanley W., Washington, D. C. Liquid-level indicator. No. 1,423,411; July 18.
 Finch, William. (See Arnett, Albert C., assignor.) (Reissue.)
 Finckh, Fritz, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Barrel-recoil gun. No. 1,404,516; Jan. 24.
 Finckh, Fritz, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Vehicle discharging from the bottom. No. 1,410,094; Mar. 21.
 Finckh, Fritz, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Dumping receptacle. No. 1,419,966; June 13.
 Finckh, Fritz, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Operating mechanism for the doors of self-discharging receptacles. No. 1,421,439; July 4.
 Finckh, Fritz, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Self-dumping vehicle. No. 1,427,451; Aug. 29.
 Finckh, Fritz, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Vehicle discharging from the bottom. No. 1,427,452; Aug. 29.
 Finckh, Fritz, and P. Krüger, Essen, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Dumping receptacle. No. 1,424,634; Aug. 1.
 Finckh, Henry, Brooklyn, N. Y. Window screen. No. 1,436,952; Nov. 28.

- Finckh, Karl, Berlin-Tempelhof, assignor to Patent-Treuhand-Gesellschaft für Elektrische Glühlampen, m. b. H., Berlin, Germany. Exhausting and sealing electrical glowlamps and the like. No. 1,410,665; Mar. 28.
- Findlay, Harold B., et al. (See Cryan, William H., assignor.)
- Findley, Ella C., Victoria, British Columbia, Canada. Switch. No. 1,420,984; June 27.
- Findura, John, assignor to Fort Pitt Bedding Company, Pittsburgh, Pa. Rail-fastening device for beds and the like. No. 1,424,089; July 25.
- Fine, Bernard M., East Orange, N. J. Internal-combustion engine and attachment therefor. No. 1,405,772; Feb. 7.
- Fine, Bernard M., East Orange, assignor to W. J. Hawkins, Montclair, N. J. Thermostatic switch. No. 1,407,020; Feb. 21.
- Fine, David L., Dorchester, Mass. Garment. No. 1,426,973; Aug. 22.
- Fine, Lewis. (See Schenck, C., and Fine.)
- Fine, Lewis, assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Metal wheel structure. No. 1,404,283; Jan. 24.
- Fine, Lewis, assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Stamped metal wheel. No. 1,404,382; Jan. 24.
- Fine, Lewis, assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Pressed-metal wheel. No. 1,411,427; Apr. 4.
- Fine, Lewis, assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Drill jig. No. 1,414,635; May 2.
- Fine Wire Insulating Company. (See Shiverick, Myron D., assignor.)
- Finger, John A., Medford, Mass. Loose leaf binder. No. 1,432,453; Oct. 17.
- Finger, Jonas, Fort Collins, Colo. Convertible auto seat. No. 1,402,854; Jan. 10.
- Finger, Robert M., and D. W. Liles, Badin, N. C. Advertising device. No. 1,425,758; Aug. 15.
- Fingerprint Machine Corporation. (See Glass, Charles F., assignor.)
- Finizio, Thomas D., Kitchawan, N. Y., assignor to Steatite Electric Products Corporation. Electric heating apparatus. No. 1,417,154; May 23.
- Fink, Colin G., Yonkers, assignor to Chile Exploration Company, New York, N. Y. Electrode. No. 1,437,507; Dec. 5.
- Fink, Edward J., Philadelphia, Pa. Apparatus for grinding lenses. No. 1,438,909; Dec. 12.
- Fink, I. S. (See Redding, Harry B., assignor.)
- Fink, John A., Santa Barbara, Calif. Valve-spring lifter. No. 1,433,502; Oct. 24.
- Fink, William B., New York, N. Y. Stationary sign construction. No. 1,414,350; May 2.
- Finkhousen, Carey C., Wren, Ohio. Wrench. No. 1,415,826; May 9.
- Finlayson, Don N., assignor to Detroit Pneumatic Chuck Company, Flat Rock, Mich. Chuck. No. 1,424,889; Aug. 8.
- Finlayson, William A., Detroit, Mich. Radiator. No. 1,411,334; Apr. 4.
- Finley, Charles A. (See Minton, J. P., and Finley.)
- Finley, Charles A., Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y. Device for translating the effects of sound vibrations into variations in an electrical circuit. No. 1,406,833; Feb. 14.
- Finley, Earl, Detroit, Mich. Mop handle. No. 1,415,827; May 9.
- Finley, Sam E., Atlanta, Ga. Applying binding media to road surfaces. No. 1,411,777; Apr. 4.
- Finley, Thomas M., St. Louis, Mo. Flying machine. No. 1,426,369; Aug. 22.
- Finley, Thomas M., St. Louis, Mo. Gas control for flying machines. No. 1,426,370; Aug. 22.
- Finn, Robert B., Mill Valley, Calif. Process and apparatus for the production of metallic dust. No. 1,436,983; Nov. 28.
- Finn, William, Detroit, Mich., assignor to Morgan & Wright. Mold-opening device. No. 1,418,635; June 6.
- Finnell, Walter S., assignor to American Scrubbing Equipment Company, Hannibal, Mo. Rotary floor-scrubbing machine. No. 1,434,109; Oct. 31.
- Finney, Arthur A., Chicago, Ill., assignor to F. E. Liverance, Jr., Grand Rapids, Mich. Timer-securing device. No. 1,436,799; Nov. 28.
- Finney, George S., assignor of one-half to B. D. Adsit, Chicago, Ill. Composite-sheet body. No. 1,430,365; Sept. 26.
- Finney, James J., assignor of one-fourth to C. P. Schroeder, one-fourth to G. F. Jedlicka, and one-fourth to R. D. Bliss, Chicago, Ill. Valve. No. 1,429,199; Sept. 12.
- Finnigan, William T., Portland, Oreg. Receiver and return trap. No. 1,432,021; Oct. 17.
- Finsen, Ervind. (See Stewart, A. L., and Finsen.)
- Finstad, Adolph, Chicago, Ill. Dust collector or chute. No. 1,413,843; Apr. 25.
- Finsterbusch, Franz, Charlottenburg, near Berlin, Germany. Induced-draft plant. No. 1,406,952; Feb. 14.
- Finstone, Marx, Brooklyn, N. Y. Fountain pen. No. 1,402,409; Jan. 3.
- Finstone, Marx, Brooklyn, N. Y. Magazine pencil. No. 1,411,715; Apr. 4.
- Fintel, William F., Highland, Calif. Seed-potato cutter. No. 1,435,828; Nov. 14.
- Fiorillo, Giacomo, Cleveland, Ohio. Boring machine. No. 1,434,946; Nov. 7.
- Fire Gun Manufacturing Company. (See Sammis, Albert V., assignor.)
- Fire Gun Manufacturing Company. (See Tunnell, Harry E., assignor.)
- Firebaugh, William H., Jr., Berkeley, Calif. Fuel control for semi-Diesel engines. No. 1,402,408; Jan. 3.
- Fireman, Peter, Trenton, N. J., assignor to Magnetic Pigment Company. Pigment and producing the same. No. 1,420,985; June 27.
- Fireman, Peter, Trenton, N. J., assignor to Magnetic Pigment Company. Pigment and producing same. No. 1,424,635; Aug. 1.
- Firestone, Omar J., Indianapolis, Ind. Sheet-metal-pipe blank. No. 1,437,050; Nov. 28.
- Firestone Steel Products Company, The. (See Swain, Joseph G., assignor.)
- Firestone Tire and Rubber Company, The. (See Bittaker, Harvey J., assignor.)
- Firestone Tire and Rubber Company, The. (See Goodenberger, Daniel E., assignor.)
- Firestone Tire and Rubber Company, The. (See Greenwald, Lemon, assignor.)
- Firestone Tire and Rubber Company, The. (See Hargraves, Albert, assignor.)
- Firestone Tire and Rubber Company, The. (See Heller, Jacob E., assignor.)
- Firestone Tire and Rubber Company, The. (See Kramer, John, assignor.)
- Firestone Tire and Rubber Company, The. (See Maranville, Harvey F., assignor.)
- Firestone Tire and Rubber Company, The. (See Myers, Carmon A., assignor.)
- Firestone Tire and Rubber Company, The. (See Pade, Max H., assignor.)
- Firestone Tire & Rubber Company, The. (See Putt, Edward D., assignor.)
- Firestone Tire and Rubber Company, The. (See Riblet, Lewis C., assignor.)
- Firestone Tire and Rubber Company, The. (See Stevens, Horace D., assignor.)
- Firestone Tire and Rubber Company. (See Stevens, W. C., and Putt, assignors.)
- Firestone Tire & Rubber Company, The. (See Stevens, William C., assignor.)
- Firestone Tire and Rubber Company, The. (See Townsend, Hal E., assignor.)
- Firestone Tire and Rubber Company, The. (See Tuttle, John C., assignor.)
- First National Bank in St. Louis. (See Small, Chesley T., assignor.)
- Firth, Carodus V. (See Hill, W. E., and Firth.)
- Firth, Edward L., assignor to Roadless Traction Limited, London, England. Variable-speed gear. No. 1,409,536; Mar. 14.
- Firth-Sterling Steel Company. (See Schultz, William J., assignor.)
- Fisch, Paul, Lyon, France. Pump for delivering motor fuel and the like. No. 1,418,293; June 6.
- Fischbacher, Philip, Quincy, Ill., assignor to American Sanitary Refrigeration Co., Owensboro, Ky. Separator. No. 1,425,246; Aug. 8.
- Fischer, Albert C., Chicago, Ill. Sponge asphalt, producing same, and packings made therefrom. No. 1,401,974; Jan. 3.
- Fischer, Arthur I., assignor to M. H. Glauber, Cleveland, Ohio. Vitreous-china cock or faucet. No. 1,424,562; Aug. 1.
- Fischer, Charles, New York, N. Y. Display stand. No. 1,437,837; Dec. 5.
- Fischer, Charles W. (See Bailey, G. C., Fischer, and Schulze.)
- Fischer, Edward A. (See Irwin, C. M., and Fischer.)
- Fischer, Ernst G., Washington, D. C. Artificial horizon. No. 1,409,938; Mar. 21.
- Fischer, Frederick C., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum-tube manufacture. No. 1,409,339; Mar. 14.
- Fischer, Frederick C., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Bending jig. No. 1,419,550; June 13.
- Fischer, Frederick C., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Means for manufacturing an article of a plurality of parts. No. 1,430,634; Oct. 3.
- Fischer, Henry J., assignor of one-sixth to R. H. Haase and one-sixth to F. C. Dettmar, Baltimore, Md. Conveyor. No. 1,415,869; May 16.
- Fischer, Howard L., St. Paul, Minn. Pencil. No. 1,427,729; Aug. 29.
- Fischer, Howard L., St. Paul, Minn. Pencil. (Reissue.) No. 15,463; Oct. 3.
- Fischer, Howard L., assignor to Brown & Bigelow, St. Paul, Minn. Pencil. No. 1,430,970; Oct. 3.
- Fischer, Johann, Augsburg, Germany. Sheet-feeding device for high-speed printing presses. No. 1,418,145; May 30.
- Fischer, John H., assignor to Eagle Pencil Company, New York, N. Y. Pencil. No. 1,410,666; Mar. 28.

Alphabetical list of patentees—Continued.

- Fischer, Joseph W., Brooklyn, N. Y. Safety razor. No. 1,425,463; Aug. 8.
- Fischer, Joseph W., Brooklyn, N. Y. Game. No. 1,425,464; Aug. 8.
- Fischer, Max W., assignor to Gillen-Cole Co., Incorporated, Portland, Oreg. Self-closing latch. No. 1,417,815; May 30.
- Fischer, Milton A., New York, N. Y. Clasp for necklaces and the like. No. 1,431,729; Oct. 10.
- Fischer, Philip A., New York, N. Y. Canopied automobile door. No. 1,425,954; Aug. 15.
- Fischer, Philip A., New York, N. Y. Adjustable cap. No. 1,435,221; Nov. 14.
- Fischer, Raymond C. (See Villeneuve, W. W., and Fischer.)
- Fischer, William, New York, N. Y. Clasp. No. 1,435,829; Nov. 14.
- Fischmann, David, Berlin, Germany. Apparatus for measuring and indicating the tangential pressure or the output of piston engines. No. 1,416,456; May 16.
- Fiscus, Jesse L., assignor of one-half to A. Idso, Audubon, Iowa. Radiator holder. No. 1,429,575; Sept. 19.
- Fish, Alfred E., Chicago, Ill. Shipping tag. No. 1,423,557; July 25.
- Fish, Charles H., Rye, N. H. Crank arm. No. 1,428,366; Sept. 5.
- Fish, Edward. (See Novick, A., and Fish.) (Reissue.)
- Fish, Edward, assignor to F. L. Smith Machine Company, Incorporated, New York, N. Y. Feeding device. No. 1,404,195; Jan. 24.
- Fish, Edward R. (See Clay, Samuel B., assignor.)
- Fish, Frederick K., Jr., San Francisco, Calif., assignor to Wood Products and By-Products Corporation, Reno, Nev. Making paper pulp from wood. No. 1,413,716; Apr. 25.
- Fish, Geo. L., Corporation. (See Fish, George L., assignor.)
- Fish, George L., Modesto, Calif., assignor, by mesne assignments, to Geo. L. Fish Corporation, Reno, Nev. Valve. No. 1,420,994; June 27.
- Fish, Winfield J. (See Forshey, P. D., and Fish.)
- Fishbein, Ruben, Bayonne, N. J. Fastening means for bag handles. No. 1,434,203; Oct. 31.
- Fishburne, Orrie H., Brooklyn, N. Y. Swing. No. 1,438,817; Dec. 12.
- Fishel, Frederick M., Marion, Iowa. Ensilage-tamping apparatus. No. 1,411,428; Apr. 4.
- Fishel, Henry W., New York, N. Y. Jewelry and manufacturing the same. No. 1,425,188; Aug. 8.
- Fishel Nessler Company. (See Fishel, Theodore H., assignor.)
- Fishel, Theodore H., New Rochelle, N. Y., assignor to Fishel Nessler Company. Ornamental covering for shoe buttons. No. 1,419,034; June 6.
- Fisher, Abraham C., New York, N. Y. Hand bag. No. 1,435,704; Nov. 14.
- Fisher, Alexander, New York, N. Y., assignor to Fisher Patents Co., Inc. Electric water heater. No. 1,428,157; Sept. 5.
- Fisher, Anna L. (See Zorn, John B., assignor.)
- Fisher, Bessie M., administratrix. (See Fisher, George O.)
- Fisher Body Corporation. (See Rissmann, Paul, assignor.)
- Fisher, Charles, assignor to The Automatic Recording Safe Company, Chicago, Ill. Savings bank. No. 1,403,854; Jan. 17.
- Fisher, Charles, assignor to The Automatic Recording Safe Company, Chicago, Ill. Apparatus for applying a cover to a casing. No. 1,417,155; May 23.
- Fisher, Charles, assignor to The Automatic Recording Safe Company, Chicago, Ill. Machine for applying a cover or binding to a casing section. No. 1,420,827; June 27.
- Fisher, Charles, assignor to The Automatic Recording Safe Company, Chicago, Ill. Machine for manufacturing safes. No. 1,424,289; Aug. 1.
- Fisher, Charles V., Muncie, Ind. Motor stand. No. 1,427,153; Aug. 29.
- Fisher, Charles W., assignor to The O. S. Kelly Company, Springfield, Ohio. Support for spotlights. No. 1,413,977; Apr. 25.
- Fisher, Chester H., Council Bluffs, Iowa. Hammer. No. 1,411,567; Apr. 4.
- Fisher, Clarence B., Chicago, Ill. Bait. No. 1,406,834; Feb. 14.
- Fisher, Daniel C., Boston, Mass. Lock valve. No. 1,416,807; May 23.
- Fisher, Edwin H., Pittsburgh, Pa., assignor to Scientific Materials Company. Absorption wedge. No. 1,419,725; June 13.
- Fisher, Ernest F., Essington, Pa. Refrigerating apparatus. No. 1,415,828; May 9.
- Fisher, Frank E., Detroit, Mich. Engine starter. (Reissue.) No. 15,444; Sept. 5.
- Fisher, Frank L. (See Koons, F. R., and Fisher.)
- Fisher, Frank L., Milwaukee, Wis. Attachment for grease plugs. No. 1,416,808; May 23.
- Fisher, Frank M. (See Fisher, John G., assignor.)
- Fisher, George E., assignor to Hawaiian Pineapple Company, Limited, Honolulu, Hawaii. Machine for treating fruit. No. 1,430,069; Sept. 26.
- Fisher, George F. (See Gilson, H. R., and Fisher.)
- Fisher, George F., Providence R. I., assignor to Revere Rubber Company. Coating fabric with vulcanizable plastic material. No. 1,402,288; Jan. 3.
- Fisher, George O., deceased, New York, N. Y.; B. M. Fisher, administratrix. Balancing and recoil attachment for guns. No. 1,437,796; Dec. 5.
- Fisher, George O., deceased, New York, N. Y.; B. M. Fisher, administratrix. Balancing attachment for guns. No. 1,437,797; Dec. 5.
- Fisher, George R., Denver, Colo., assignor to The Master Cord Belt Company. Machine belt and making the same. No. 1,438,370; Dec. 12.
- Fisher, Harmon F., Philadelphia, Pa., assignor to Research Corporation, New York, N. Y. Self-cleaning electric precipitator. No. 1,433,266; Oct. 24.
- Fisher, Henry W., and R. W. Atkinson, Perth Amboy, N. J., assignors to Standard Underground Cable Company, Pittsburgh, Pa. Filling the insulation of hollow cables and product thereof. No. 1,418,369; June 6.
- Fisher, Herman W., Manteca, Calif. Rope handle. No. 1,436,703; Nov. 28.
- Fisher, Jack, Buffalo County, Nebr. Draining device for motor-vehicle radiators, etc. No. 1,424,636; Aug. 1.
- Fisher, Jacob, Wabash, Ind. Rack structure for vehicles. No. 1,403,307; Jan. 10.
- Fisher, Jake, et al. (See Spiegler, Mandel, assignor.)
- Fisher, James, New Orleans, La. Hopper for use in feeding finely-divided fuel. No. 1,414,870; May 2.
- Fisher, James B., St. Louis, Mo. Vehicle body inclosure. No. 1,415,928; May 16.
- Fisher, James B., Waukesha, Wis. Valve. No. 1,426,560; Aug. 22.
- Fisher, James B., assignor to Waukesha Motor Company, Waukesha, Wis. Suction intake for pumps. No. 1,421,440; July 4.
- Fisher, James P., Bartlesville, Okla., assignor, by mesne assignments, to Doherty Research Company, New York, N. Y. Apparatus for removing suspended matter from gases. No. 1,420,986; June 27.
- Fisher, John, Los Angeles, Calif. Eccentric hinge for molding flasks. No. 1,416,629; May 16.
- Fisher, John, Los Angeles, Calif. Hinge for molding flasks. No. 1,416,630; May 16.
- Fisher, John G., McLean, Va. Buckle. No. 1,403,111; Jan. 10.
- Fisher, John G., McLean, Va., assignor of one-half to F. M. Fisher, Paducah, Ky. Electric smoothing iron. No. 1,435,831; Nov. 14.
- Fisher, John S., et al. (See Musser, Alfred J., assignor.)
- Fisher, Joseph E., Oceanside, Calif. Wrench attachment. No. 1,412,205; Apr. 11.
- Fisher, Joseph H., Meadow, Utah. Cultivator. No. 1,440,216; Dec. 26.
- Fisher, Joseph K., Santa Monica, Calif., assignor to J. E. Ogden, Mountainville, N. Y. Concrete insert. No. 1,405,994; Feb. 7.
- Fisher, Kenneth G., Tacoma, Wash. Weighing-scale attachment. No. 1,425,465; Aug. 8.
- Fisher, Lafayette. (See Madden, J. P., and Fisher.)
- Fisher, Lawrence W., assignor of one-half to A. Bird, Wilsonville, Nebr. Combined screen and storm sash. No. 1,426,267; Aug. 15.
- Fisher, Louis M., Clarksdale, Mo. Belt-dressing composition and making the same. No. 1,411,912; Apr. 4.
- Fisher Patents Co. (See Fisher, Alexander, assignor.)
- Fisher, Peter N. (See Oda, Cinc. S., assignor.)
- Fisher, Raymond, assignor of one-half to O. W. Weisel, Philadelphia, Pa. Vertically-striped knit fabric. No. 1,431,643; Oct. 10.
- Fisher, Roy R., et al. (See Keller, Camden C., assignor.)
- Fisher, Stanley, Northfields, Ealing, England. Apparatus for indicating ignition failures in internal-combustion engines. No. 1,416,457; May 16.
- Fisher, Stanley L., Chester, assignor to The Pratt Read Player Action Company, Deep River, Conn. Music-roll spindle. No. 1,402,060; Jan. 3.
- Fisher, Stanley L., Chester, assignor to The Pratt Read Player Action Company, Deep River, Conn. Expression valve for player pianos. No. 1,404,106; Jan. 17.
- Fisher, Stanley L., Chester, assignor to The Pratt Read Player Action Company, Deep River, Conn. Player piano. No. 1,404,107; Jan. 17.
- Fisher, Stanley L., Chester, assignor to The Pratt Read Player Action Company, Deep River, Conn. Note-sheet-winding mechanism for player pianos. No. 1,439,156; Dec. 19.
- Fisher, William, North Tawton, England. Internal-combustion engine. No. 1,428,376; Sept. 5.
- Fisher, William C., assignor to The Russell Manufacturing Co., Middletown, Conn. Clutch facing and making same. No. 1,436,158; Nov. 21.
- Fisher, William G., Sunbury, Pa. Shuttle guards for looms. No. 1,406,835; Feb. 14.
- Fisher, William H., Los Angeles, and P. Chambers, Redondo Beach, Calif. Composition for treating iron and its alloys. No. 1,405,678; Feb. 7.
- Fisher, William J., Waltham, Mass. Aeronautical balance indicator. No. 1,411,883; Apr. 4.
- Fisher, William W. (See Pentecost, A., and Fisher.)
- Fishman, Jacob, St. Louis, Mo. Attachment for caskets. No. 1,436,757; Nov. 28.
- Fisk, Albert E., assignor to Freyn, Brassert & Company, Chicago, Ill. Screening device. No. 1,439,699; Dec. 26.
- Fisk, Carroll E., assignor to Hancock Brothers, San Francisco, Calif. Removable type face. No. 1,409,288; Mar. 14.

- Fisk, Eugene L., New York, N. Y. Combination blood pressure and respiration instrument. No. 1,433,679; Oct. 31.
- Fisk, J. Dwight. (See Cate, Charles D., assignor.)
- Fisk Rubber Company, The. (See Castricum, Martin, assignor.)
- Fisk Rubber Company, The. (See Desautels, Charles H., assignor.)
- Fisk Rubber Company, The. (See Fording, William G., assignor.) (Reissue.)
- Fisk Rubber Company, The. (See Gwozdz, Joseph S., assignor.)
- Fisk Rubber Company, The. (See Jameson, William, assignor.) (Reissue.)
- Fisk Rubber Company, The. (See Knaus, Peter J., assignor.)
- Fisk Rubber Company, The. (See Marquette, Melvon A., assignor.)
- Fisk Rubber Company, The. (See Maynard, Charles E., assignor.)
- Fisk Rubber Company, The. (See Midgley, Thomas, assignor.)
- Fisk Rubber Company, The. (See Naylor, Ralph B., assignor.)
- Fisk Rubber Company, The. (See Riendeau, Richard J., assignor.)
- Fisk Rubber Company, The. (See Taylor, Edward C., assignor.)
- Fiske, Bradley A., Washington, D. C. Reading machine. No. 1,411,008; Mar. 28.
- Fiske, David, Chicago, Ill. Fish stringer. No. 1,423,203; July 18.
- Fiskow, James, Milwaukee, Wis. Clothes-pressing machine. No. 1,410,095; Mar. 21.
- Fiss, David and M. Rimland, New York, N. Y. Spring cushion. No. 1,434,653; Nov. 7.
- Fitch, Benjamin F., Evanston, Ill. Support for traveling cranes and similar structures. No. 1,409,089; Mar. 7.
- Fitch, Benjamin F., Evanston, Ill. Device for connecting loads to elevating cables. No. 1,415,090; May 9.
- Fitch, Benjamin F., Evanston, Ill. Mechanism for hoisting vehicle bodies. No. 1,433,993; Oct. 31.
- Fitch, Benjamin F., Evanston, Ill. Means for holding removable bodies on freight cars. No. 1,437,964; Dec. 5.
- Fitch, Benjamin F., Evanston, Ill. Freight-transferring mechanism. No. 1,437,965; Dec. 5.
- Fitch, Benjamin F., Evanston, Ill. Gantry crane. No. 1,437,966; Dec. 5.
- Fitch, Benjamin F., Evanston, Ill. Traveling crane. No. 1,437,967; Dec. 5.
- Fitch, Benjamin F., Evanston, Ill. Freight-transferring apparatus. No. 1,437,968; Dec. 5.
- Fitch, Benjamin F., Evanston, Ill., assignor to Motor Terminals Company, Wilmington, Del. Reduction gearing for cranes and hoists. No. 1,403,598; Jan. 17.
- Fitch, Benjamin F., Evanston, Ill., assignor to Motor Terminals Company, Wilmington, Del. System of handling freight. No. 1,404,947; Jan. 31.
- Fitch, Benjamin F., New York, N. Y., assignor to Motor Terminals Company, Wilmington, Del. System for transporting freight. No. 1,404,948; Jan. 31.
- Fitch, Benjamin F., Evanston, Ill., assignor to The Motor Terminals Company, Cleveland, Ohio. Traveling crane. No. 1,419,129; June 13.
- Fitch, Ezra C., Manchester, assignor to Waltham Watch Company, Waltham, Mass. Strap connector. No. 1,417,507; May 30.
- Fitch, Harry H., and E. W. Miller, Orange, Va. Hub appliance for motor vehicles. No. 1,406,836; Feb. 14.
- Fitch, Jason A., and F. C. Shea, Youngstown, Ohio. Fence-post. No. 1,426,469; Aug. 22.
- Fitchet, Charles L., San Francisco, Calif. Mirror structure. No. 1,422,685; July 11.
- Fitchet, Charles L., assignor to The California Sales Agency Company, Inc., Wheeling, W. Va. Combination shade and drapery fixture holder or mounting. No. 1,435,830; Nov. 14.
- Fite, Cephas V., and C. C. Coddington, Charlotte, N. C. Governor-controlled or force feed for oil engines. No. 1,439,625; Dec. 19.
- Fit-Rite Company. (See Canfield, Allen N., assignor.)
- Fitton, John R., Woonsocket, R. I. Pencil clip. No. 1,408,084; Feb. 28.
- Fitts, Frank D. (See McCash, P. V., and Levinson, assignors.)
- Fitts, James L., Merchantville, assignor to Warren Webster & Company, Camden, N. J. Thermostatic-controlled valve. No. 1,425,189; Aug. 8.
- Fitts, James L., Pensauken Township, Camden County, assignor to Warren Webster & Company, Camden, N. J. Apparatus for controlling the flow of fluid. No. 1,438,031; Dec. 5.
- Fitz, Robert F. (See Burnette, Walter W. H., assignor.)
- Fitz-Empire Double Pivot Last Company. (See Boynton, Stanley E., assignor.)
- Fitz-Empire Double Pivot Last Company. (See Buck, Frank S., assignor.)
- Fitz-Empire Double Pivot Last Company. (See Hadaway, J. B., and Buckminster, assignors.)
- Fitz-Empire Double Pivot Last Company. (See Schelter, John C., assignor.)
- Fitz-Empire Double Pivot Last Company. (See Webster, Ralph C., assignor.)
- Fitz-Empire Double Pivot Last Company. (See Whipple, Leland B., assignor.)
- Fitzgerald, Arthur E., Wellington, New Zealand. Thermostatic circuit closer for laundry irons. No. 1,415,829; May 9.
- Fitzgerald, Arthur G., Brookline, Mass. Flag support for automobiles. No. 1,413,267; Apr. 18.
- Fitzgerald, Edward J. (See Same, John C., assignor.)
- Fitzgerald, Francis A. J., assignor to Republic Carbon Company, Inc., Niagara Falls, N. Y. Electric furnace. No. 1,434,053; Oct. 31.
- Fitzgerald, Frederick C., London, England. Lithographic ink composition. No. 1,406,837; Feb. 14.
- Fitzgerald, Harold G., Pasadena, Calif. Searchlight. No. 1,406,548; Feb. 14.
- Fitzgerald, Harold G., Los Angeles, Calif. Vehicle lamp. No. 1,425,190; Aug. 8.
- Fitzgerald, Harry R., and H. H. Walton, Memphis, Tenn. Locomotive-headlight control. No. 1,432,172; Oct. 17.
- Fitzgerald, James. (See Tidwell, John W., assignor.)
- Fitzgerald, Jeremiah C., Kilbourn, Wis. Drill. No. 1,421,928; July 4.
- Fitzgerald, John M., Chicago, Ill. Conduit fastener. No. 1,418,370; June 6.
- Fitzgerald Manufacturing Company, The. (See Fitzgerald, Maurice F., assignor.)
- Fitzgerald, Maurice F., Torrington, assignor to The Fitzgerald Mfg. Co., Winsted, Conn. Revolving connector for electric curling irons. No. 1,407,937; Feb. 28.
- Fitzgerald, Maurice F., Winsted, assignor to The Fitzgerald Manufacturing Company, Torrington, Conn. Electric toaster. No. 1,426,284; Aug. 15.
- Fitzgerald, Maurice J., and J. A. Blank, Philadelphia, Pa. Sled. No. 1,410,397; Mar. 21.
- Fitzgerald Mfg. Co., The. (See Fitzgerald, Maurice F., assignor.)
- Fitz Gerald, Nicholas H., and O. J. Marvin, Findlay, Ohio. Valve-sealing device. No. 1,435,832; Nov. 14.
- Fitzgerald, Thomas A., Jackson, Mich. Gas lock for motor vehicles. No. 1,433,709; Oct. 31.
- Fitzgerald, William H. J., Braintree, Mass. Window-screen construction. No. 1,426,561; Aug. 22.
- Fitzgibbon, Thomas, Sheridan Township, Scott County, Iowa. Switching machine. No. 1,412,394; Apr. 11.
- Fitzgibbon, Thomas, Sheridan Township, Scott County, Iowa. Track switch lever. No. 1,412,395; Apr. 11.
- Fitzpatrick, Charles H., Norfolk, Va. Stream-line sounding lead. No. 1,410,904; Mar. 28.
- Fitzpatrick, David, assignor to The Cleveland Worm and Gear Company, Cleveland, Ohio. Hob for worm gears. No. 1,436,159; Nov. 21.
- Fitzpatrick, George J., Chicago, Ill. Beater. No. 1,417,982; May 30.
- Fitzpatrick, John, Niagara Falls, N. Y. Ozone generator. No. 1,403,759; Jan. 17.
- Fitzpatrick, John B., New York, N. Y. Collar support. No. 1,412,028; Apr. 4.
- Fitzpatrick, John H., Peekskill, N. Y. Game of nine. No. 1,405,195; Jan. 31.
- Fitzpatrick, Joseph F., Worcester, Mass. Drag-line excavator. No. 1,438,701; Dec. 12.
- Fitzpatrick, Thomas. (See Mason, F. R., and Fitzpatrick.)
- Fitzsimmons, John, et al. (See Thompson, Henry B., assignor.)
- Fitzsimmons, Norman J. (See Tiffany, Gerald W., assignor.)
- Fitz Simons, Samuel G., Charleston, S. C. Automobile fender. No. 1,426,371; Aug. 22.
- Fitz Simons, Samuel G., Charleston, S. C. Auto fender. No. 1,430,224; Sept. 26.
- Fitzsimons, Theodore F., Stanmore, near Sydney, New South Wales, Australia. Can-body-ending machine. No. 1,422,192; July 11.
- Fix, Daniel, Milaca, Minn. Curved-block mold. No. 1,418,636; June 6.
- Fix, Frank C., Lancaster, assignor to Armstrong Cork Company, Pittsburgh, Pa. Method and apparatus for heating gem duck. No. 1,402,484; Jan. 3.
- Fix, Frank, Cincinnati, Ohio, assignor to Armstrong Cork Company, Pittsburgh, Pa. Insole reinforcing and trimming machine. No. 1,404,356; Jan. 24.
- Fixary, Anton K., Chicago, Ill., assignor to Improved Oil Cup Manufacturing Company. Oil cup. No. 1,410,398; Mar. 21.
- Fixsen, Vance E., Santa Ana, Calif. Chair. No. 1,412,396; Apr. 11.
- Fixter, Edward, assignor to one-fourth to M. L. Starkey, Wilmington, N. C. Rail joint. No. 1,419,726; June 13.
- Fjellman, Bengt W., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Bushing for loose pulleys. No. 1,437,969; Dec. 5.
- Flach, Max A., Comfort, Tex. Power generating and transmitting means. No. 1,438,702; Dec. 12.
- Flachbart, Joseph, Sr. (See Oestreicher, George J., assignor.)
- Flachskampf, Louis, Lost Creek #2, Pa. Micrometer calipers. No. 1,419,837; June 13.
- Flack, John. (See Schepp, P. S. and Flack.)
- Flack, John, and P. Schepp, La Salle, Ill. Portable building. No. 1,438,640; Dec. 12.

Alphabetical list of patentees—Continued.

- Flagg, Ernest, New York, N. Y. Outside window shade. No. 1,434,882; Nov. 7.
- Flagg, Ray C., Eastwood, assignor to Flagg-Stowell Company, Syracuse, N. Y. Brake-locking device. No. 1,412,397; Apr. 11.
- Flagg-Stowell Company. (See Flagg, Ray C., assignor.)
- Flagge, Philipp F., Green Bay, Wis., assignor to Klauer Manufacturing Company, Dubuque, Iowa. Pipe construction. No. 1,428,427; Sept. 5.
- Flagstad, Cornell, Minneapolis, Minn. Box cover and fastening for same. No. 1,432,174; Oct. 17.
- Flagstad, Cornell and O. A., Minneapolis, Minn. Folding box. No. 1,432,173; Oct. 17.
- Flagstad, Oscar A. (See Flagstad, Cornell and O. A.)
- Flaherty, John F., assignor to The Bock Bearing Company, Toledo, Ohio. Roller bearing. No. 1,404,383; Jan. 24.
- Flaherty, Michael H., Philadelphia, Pa. Lock-sealed envelope. No. 1,422,045; July 4.
- Flaherty, Mike B., assignor of one-half to J. L. Sober, Steubenville, Ohio. Tire. No. 1,406,630; Feb. 14.
- Flalg, Frank, Danville, Ky. Measuring instrument. No. 1,407,851; Feb. 28.
- Flajshans, Russell E., Angola, Ind. Game. No. 1,404,108; Jan. 17.
- Flamm, Oswald, Niclassee, near Berlin, Germany. Submarine boat. No. 1,429,941; Sept. 26.
- Flammang, John, University City, assignor to O. G. Stark, St. Louis, Mo. Machine for manufacturing piston rings. No. 1,429,417; Sept. 19.
- Flanagan, James A., Toronto, Ontario, Canada. Stitch control for sewing machines. No. 1,404,357; Jan. 24.
- Flanagan, Liberty K., Kansas City, Mo. Smoke consumer. No. 1,421,200; June 27.
- Flanders, Warren B., Essington, Pa., assignor to Westinghouse Electric and Manufacturing Company. Turbine blade. No. 1,416,701; May 23.
- Flanders, Warren B., Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company. Reversing turbine. No. 1,416,702; May 23.
- Flanders, Warren B., Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company. Blading. No. 1,424,242; Aug. 1.
- Flanders, Warren B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Balancing machine. No. 1,437,798; Dec. 5.
- Flannery Bolt Company. (See Dodds, Ethan I., assignor.)
- Flannery Bolt Company. (See Flannery, J. R., and Dodds, assignors.)
- Flannery Bolt Company. (See Flannery, John R., assignor.)
- Flannery Bolt Company. (See Landgraf, Frederick K., assignor.)
- Flannery Bolt Company. (See Mennie, Robert S., assignor.)
- Flannery Bolt Company. (See Stafford, B. E. D., and Dodds, assignors.)
- Flannery Bolt Company. (See Stafford, B. E. D., and Landgraf, assignors.)
- Flannery, John L., assignor to The Boye Needle Company, Chicago, Ill. Cabinet. No. 1,405,825; Feb. 7.
- Flannery, John M., Detroit, Mich., and F. C. Dettelbach, assignors, by mesne assignments, to The Eagle Carburetor Company, Cleveland, Ohio. Carburetor. No. 1,419,635; June 6.
- Flannery, John R., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,409,162; Mar. 14.
- Flannery, John R., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure for boilers. No. 1,428,541; Sept. 12.
- Flannery, John R., Pittsburgh, Pa., and E. I. Dodds, Central Valley, N. Y., assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt. No. 1,403,760; Jan. 17.
- Flannery, John R., Pittsburgh, Pa., and E. I. Dodds, Central Valley, N. Y., assignors to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,403,761; Jan. 17.
- Flannery, Mary A. A., Falmouth, Me. Spring hook. No. 1,403,397; Jan. 10.
- Flannery, Mary C., Denver, Colo. Sanitary closure for milk-can tops. No. 1,405,679; Feb. 7.
- Plateboe, Einar I., assignor to Pacific Mutual Investment Co., Seattle, Wash. Ironing machine. No. 1,411,776; Apr. 4.
- Flatow, William S., Brooklyn, N. Y. Garment seam. No. 1,403,308; Jan. 10.
- Flatter, Carl E., and O. E. Christopher, Anderson, assignors of one-third to L. Flatter, Muncie, Ind. Mixing device. No. 1,430,299; Sept. 26.
- Flatter, Luther. (See Flatter, C. E., and Christopher, assignors.)
- Flauder, Alfred J. (See Weidlich, L., and Flauder.)
- Flavell, Denis A., assignor to Bernard Company of N. J., Jersey City, N. J. Feeding mechanism for wire stitching or stapling machines. No. 1,429,230; Sept. 19.
- Fleck, Charles, Cleveland, Ohio. Advertising device. No. 1,428,022; Sept. 5.
- Fleck, Louis L., New York, N. Y., assignor to Alexander Hamilton Institute. Temporary binder. No. 1,430,366; Sept. 26.
- Fleckenstein, Adelaide, guardian. (See Fleckenstein, Jackson.)
- Fleckenstein, Jackson, minor, Ionia, Mich.; A. Fleckenstein, guardian, assignor to Fleckenstein Visible Gasometer Company, Chicago, Ill. Measuring apparatus. No. 1,405,826; Feb. 7.
- Fleckenstein, Jackson, Ionia, assignor to Fleckenstein Visible Gasometer Company, Grand Rapids, Mich. Liquid measuring and dispensing apparatus. No. 1,405,827; Feb. 7.
- Fleckenstein Visible Gasometer Company. (See Fleckenstein, Jackson, assignor.)
- Fleece, Clarence M., Little Rock, Ark. Combined file and knife. No. 1,402,061; Jan. 8.
- Fleetwood, James H., New Orleans, La. Filter. No. 1,412,557; Apr. 11.
- Fleischauer, William J. (See Emery, M. E., and Fleischauer.)
- Fleischer, Jerome. (See Miller, Max C., assignor.)
- Fleischer, Paul W., Weehawken, N. J. Washer. No. 1,424,008; July 25.
- Fleischer, Paul W., assignor to American Can Company, West Hoboken, N. J. Filled-can-closing machine. No. 1,406,631; Feb. 14.
- Fleischer, Paul W., New York, N. Y., assignor to American Can Company. Can-closing machine. No. 1,429,231; Sept. 19.
- Fleischer, Paul W., West Hoboken, N. J., assignor to American Can Company, New York, N. Y. Can for processing and other purposes. No. 1,435,384; Nov. 14.
- Fleischman, Joseph, New York, N. Y. Telephone accessory. No. 1,419,551; June 13.
- Fleischmann Company, The. (See McDermott, F. A., and Glasgow, assignors.)
- Fleisher, Horace T., Elkins Park, Pa. Utilization of hosiery mill waste. No. 1,424,458; Aug. 1.
- Fleisher, W. L., & Co. (See Lissauer, A. W., and Keyes, assignors.)
- Fleisher, W. L., & Co. (See Lissauer, Adolph W., assignor.)
- Fleiter, Andrew J., Akron, Ohio. Apparatus for curing tires under internal pressure. No. 1,404,949; Jan. 31.
- Fleming, Glen W., Cleveland, Ohio. Valve-spring supports for valve grinding. (Reissue.) No. 15,388; June 20.
- Fleming, James C., Denver, Colo. Scaffold hanger. No. 1,427,453; Aug. 29.
- Fleming, James R. (See McNamare, Matthew J., assignor.)
- Fleming, Joseph P. (See Oliver, J. F., and Fleming.)
- Fleming, Wills M., Holyoke, and N. E. Brigham, South Hadley Falls, Mass., assignors to Worthington Pump and Machinery Corporation, New York, N. Y. Pump. No. 1,406,178; Feb. 14.
- Flemming, Charles F., assignor to The Miller Rubber Company, Akron, Ohio. Rubber playing ball. No. 1,436,028; Nov. 21.
- Flesher, Henry L., Riley, Ind. Pneumatic or cushion vehicle wheel. No. 1,417,311; May 23.
- Fletcher, Alfred W., Brooklyn, N. Y. Submergible heater. No. 1,413,268; Apr. 18.
- Fletcher, Edward F., Shrewsbury, assignor to Worcester Brush & Scraper Company, Worcester, Mass. Floor brush. No. 1,438,371; Dec. 12.
- Fletcher Electro Salvage Company, Limited, The. (See Fletcher, Robert J., assignor.)
- Fletcher, Elmer, Chicago, Ill., assignor to Fletcher-Wickes Company. Sound box. No. 1,427,198; Aug. 29.
- Fletcher, Ernest B. (See Passmore, A. F., and Fletcher.)
- Fletcher, Gilbert F., Bangor, Me. Banker. No. 1,409,163; Mar. 14.
- Fletcher, Henry O., Bridgeport, Conn. Searchlight apparatus. No. 1,418,553; June 6.
- Fletcher, Henry P., Coogee, near Sydney, New South Wales, Australia, assignor to A. J. Parker, Auckland, New Zealand. Process for the conversion of certain water pastes into certain oil pastes. (Reissue.) No. 15,298; Mar. 7.
- Fletcher, Herbert E., Lynn, Mass. Valve-grinding machine. No. 1,431,644; Oct. 10.
- Fletcher, John D. (See Sullivan, C. L., and Fletcher.)
- Fletcher, John D., Evansville, Ind. Paving block and roadway constructed therefrom. No. 1,422,551; July 11.
- Fletcher, Richard D. L., et al. (See Newcomb, Alcanzo D., assignor.)
- Fletcher, Robert J., assignor to The Fletcher Electro Salvage Company, Limited, London, England. Electrodeposition of metals upon iron and alloys of iron. No. 1,417,896; May 30.
- Fletcher, Theodore, San Antonio, assignor of one-half to J. M. Nix, Bexar County, Tex. Speed-regulating means. No. 1,429,576; Sept. 19.
- Fletcher-Wickes Company. (See Fletcher, Elmer, assignor.)
- Fletcher, William H., Paterson, N. J. Lawn mower. No. 1,437,508; Dec. 5.
- Flett, Lawrence H. (See Ralph W. M., and Flett.)
- Fleury, Alfred N., and C. F. Mayer, Brooklyn, N. Y. Folding gocart. No. 1,434,535; Nov. 7.
- Fleury, Paul. (See Geffroy, J. H., and Fleury.)
- Fleury, Philorum, assignor of one-half to D. L. Robertson, Montreal, Quebec, Canada. Drying apparatus. No. 1,410,905; Mar. 28.
- Fleury, Philorum Dock, Quebec, Canada, assignor of one-half to D. L. Robertson, Montreal, Canada. Drying apparatus. No. 1,433,608; Oct. 31.

Alphabetical list of patentees—Continued.

- Flexo Motive Corporation. (See Hupp, Irvin, assignor.)
 Flick, Adolph, Deer Park, and O. Van Kirk, Cincinnati, Ohio. Water heater. No. 1,402,925; Jan. 10.
 Flick, Henry, Jackson, Mich. Revolving cutter head for spoke-turning lathes. No. 1,426,167; Aug. 15.
 Flick, Henry, J. P. Voelker, and H. Dunn, Jackson, Mich. Facing machine for facing the centers of wood-spoke wheels. No. 1,426,168; Aug. 15.
 Flicker, Perry W. (See Armstrong, Allen A., assignor.)
 Flickinger, Harrison W., Dayton, Ohio. Guy-wire fitting. No. 1,405,828; Feb. 7.
 Fligor, Albert R., assignor of one-third to M. L. Fligor, Cleveland, Ohio. Self closing and opening gate for elevators. No. 1,407,138; Feb. 21.
 Fligor, Mary L. (See Fligor, Albert R., assignor.)
 Flinchbaugh, Frederick T. (See Buckwalter, J. T., and Flinchbaugh.)
 Fling, Walter T., Kansas City, Mo. Water-heating range. No. 1,419,367; June 13.
 Flink, Carl E., Springfield, J. E. Beck, Chicopee Falls, and G. L. Olson, Springfield, Mass. Cake mixer. No. 1,433,710; Oct. 31.
 Flink, John, assignor to J. L. Jamieson, Philadelphia, Pa. Carbon and gas consumer. No. 1,440,348; Dec. 26.
 Flinn, Francis J., Brooklyn, N. Y. Shim. No. 1,421,441; July 4.
 Flinn, Frank P., Terre Haute, Ind., assignor to American Car and Foundry Company, New York, N. Y. Wheel-attaching device. No. 1,432,239; Oct. 17.
 Flinn, Frederick B. (See Towne, R. S., and Flinn.)
 Flint, Amos H. (See Brindle, R. G., and Flint.)
 Flint, Charles H. (See Dashner, E. J., and Flint.)
 Flint, Charles W., Chicago, Ill. Guide showing comparative express and parcel-post shipping rates. No. 1,420,828; June 27.
 Flint, Clayton S. (See Albertus, Floyd A., assignor.)
 Flint, Dutee W., Cranston, R. I. Golf-stroke-guiding device. No. 1,414,012; Apr. 25.
 Flint, James A., Denver, Colo., assignor to Government of the United States. Gyroscope. No. 1,429,577; Sept. 19.
 Flintermann, Gerhard G. C., New York, N. Y. Wheel rack and lift. No. 1,406,632; Feb. 14.
 Flintier, Daniel J. (See Reasoner, I. A., and Flintier.)
 Flintkote Company, The. (See Harris, William A., assignor.)
 Flintkote Company, The. (See Hildebrand, J. L., and Wanders, assignors.)
 Flintkote Company, The. (See Kiracofe, Otterbein P., assignor.)
 Flintkote Company, The. (See Overbury, Frederick C., assignor.) (Reissue.)
 Flintkote Company, The. (See Wanders, Hans H., assignor.)
 Flis, Alexander, Milwaukee, Wis. Vegetable-stem remover and crusher. No. 1,423,790; July 25.
 Flitton, Edward H., Omaha, Nebr. Case for eyeglasses. No. 1,427,947; Sept. 5.
 Floberg, Ole E., Shelly, Minn. Saw set. No. 1,404,384; Jan. 24.
 Floberg, Ole E., Shelly, Minn. Potato cutter. No. 1,419,036; June 6.
 Flodin, Carl M., East Boston, Mass. Screw driver. No. 1,429,861; Sept. 19.
 Floeter, Frederick S., Saginaw, Mich. Lathe. No. 1,420,987; June 27.
 Flogaus, Howard A. (See Clark, J. R., and Flogaus.)
 Flood, James D., Chicago, Ill. Radiator. No. 1,440,217; Dec. 26.
 Flood, John G., Quebec, Quebec, Canada. Dirigible-head-light mechanism. No. 1,425,759; Aug. 15.
 Flood, Richard J. (See Beard, Jerry L., assignor.)
 Flood, S. D. (See Snyder, Frederick T., assignor.)
 Flood, Valentine S., New Britain, Conn. Device for use in playing golf. No. 1,418,637; June 6.
 Flood, William, assignor of one-half to R. Vickers, Detroit, Mich. Sectional rim for pneumatic tires. No. 1,417,724; May 30.
 Floreskul, Gabriel, Toronto, Ontario, Canada. Combination table. No. 1,421,929; July 4.
 Florin, John L., Davenport, Wash. Weeding implement. No. 1,416,631; May 16.
 Florin, John L., Davenport, Wash. Gear wheel. No. 1,422,351; July 11.
 Floriot, Edmond C., New York, N. Y. Electric toaster. No. 1,416,272; May 16.
 Floro, Martiniano, Champaign, Ill. Voting machine. No. 1,425,955; Aug. 15.
 Flory, Andrew A., Grand Rapids, Mich. Electric-light bulb. No. 1,411,716; Apr. 4.
 Flory, Curtis B. (See Erwin, O. R., and Flory.) (Reissue.)
 Flory, Timothy, Dunkirk, Ohio. Churn. No. 1,420,537; June 20.
 Flostik Company. (See MacDonald, Frederick L., assignor.)
 Floto, Theresa. (See Floto, Walter M., assignor.)
 Floto, Walter M., Chicago, Ill., assignor to T. Floto. Beveling machine for paper cutters. No. 1,426,974; Aug. 22.
 Flotow, Louis C. (See Koch, A. G., and Flotow.)
 Flowers, John B., Albany, N. Y. Propeller. No. 1,405,910; Feb. 7.
 Flowers, Neat D., Bailey, N. C. Dry closet. No. 1,420,420; June 20.
 Floyd, Charles L., assignor to G. C. Floyd, Riverside, Ill. Lubricant cup. No. 1,403,239; Jan. 10.
 Floyd, George G. (See Floyd, Charles L., assignor.)
 Floyd, George G., assignor to American Steel Foundries, Chicago, Ill. Six-wheel truck. No. 1,418,294; June 6.
 Floyd, George G., assignor to American Steel Foundries, Chicago, Ill. Emergency draft gear for railway cars. No. 1,434,811; Nov. 7.
 Floyd, Rolly J. (See Watson, E. A., and Floyd.)
 Floyd, Rolly J. (See Watson, Edward A., assignor.)
 Floyd, William E., Bluefield, W. Va., assignor of one-half to A. Williams, and one-half to F. E. Godsey and C. W. Godsey, Bluefield, W. Va. Safety valve. No. 1,411,483; Apr. 4.
 Flugel, Clifford, Cincinnati, Ohio. Tire-chain-attachment device. No. 1,426,268; Aug. 15.
 Flugel, Clifford, Cincinnati, Ohio. Antiskid-chain-applying device. No. 1,429,677; Sept. 19.
 Flurie, Edward, Big Sioux Township, Union County, S. Dak. Shell belt. No. 1,416,184; May 16.
 Flying Eagle Company, Inc. (See Sieveking, Martinus, assignor.)
 Flynn, Alfred L. (See Geiger, Charles M., assignor.)
 Flynn, Dennis J., New Brunswick, N. J. Wall construction. No. 1,405,995; Feb. 7.
 Flynn, Francis K. (See Wilkes, F. C. D., and Flynn.)
 Flynn, George R., Lowell, Mass. Calculating device. No. 1,426,829; Aug. 22.
 Flynn, John H., Jr., assignor to The Eureka Tackle Block Company, Cincinnati, Ohio. Tackle hook. No. 1,421,442; July 4.
 Flynn, John O., Philadelphia, Pa. Gauge for handsaws. No. 1,409,048; Mar. 7.
 Flynn, Lewis H., et al. (See Bolenbaugh, Burton R., C., R. S., and Long, assignors.)
 Flynn, Otis C., Lexington, Ky. Burglar alarm. No. 1,437,642; Dec. 5.
 Flynt, Louis W. G., Newark, N. J. Fuel converter for internal-combustion engines. No. 1,405,196; Jan. 31.
 Foamite-Childs Corporation. (See Erwin, Orlando R., assignor.)
 Foamite Firefoam Company. (See Bargar, Frederick C., assignor.)
 Foamite Firefoam Company. (See Epps, Frank A., assignor.)
 Foamite Firefoam Company. (See Erwin, James B., and O. R., assignors.)
 Foamite Firefoam Company. (See Erwin, O. R., and Flory, assignors.) (Reissue.)
 Foamite Firefoam Company. (See Patterson, Duncan W., assignor.)
 Fodrea, William L., Little Rock, Ark. Adjustable seat post. No. 1,431,109; Oct. 3.
 Foedisch, Charles O. and R. J., Chicago, Ill. Magazine for phonograph needles. No. 1,436,160; Nov. 21.
 Foedisch, Charles O. and R. J., Chicago, Ill. Magazine for phonograph needles. No. 1,436,161; Nov. 21.
 Foedisch, Roy J. (See Foedisch, Charles O. and R. J.)
 Foehl, Fred. T., Brooklyn, N. Y. Pliers. No. 1,420,988; June 27.
 Foehl, Frederick T., Brooklyn, N. Y. Pliers. No. 1,439,664; Dec. 19.
 Foetisch, Ernest A., Albuquerque, N. Mex. Implement for removing separators from storage batteries. No. 1,418,554; June 6.
 Fogal, John E. W., Quincy, Ill. Drum. No. 1,403,021; Jan. 10.
 Fogal, John E. W., Quincy, Ill. Elevator-gate-operating device. No. 1,411,996; Apr. 4.
 Fogal, John E. W., and C. L. Fulghum, Quincy, Ill. Door-operating apparatus. No. 1,432,058; Oct. 17.
 Fogde, Mathias, and L. P. Southwick, Richmond, Va., assignors, by mesne assignments, to Stokes & Smith Company, Philadelphia, Pa. Apparatus for grouping commodity-containing units for packaging. No. 1,402,223; Jan. 3.
 Fogde, Mathias, and L. P. Southwick, Richmond, Va., assignors, by mesne assignments, to Stokes & Smith Company, Philadelphia, Pa. Label or stamp applying apparatus. No. 1,435,458; Nov. 14.
 Fogde, Mathias, and L. P. Southwick, Richmond, Va., assignors, by mesne assignments, to Stokes & Smith Company, Philadelphia, Pa. Apparatus for preparing and applying stamps or labels. No. 1,435,459; Nov. 14.
 Fogel, Abraham, Montreal, Quebec, Canada. Hat box. No. 1,421,443; July 4.
 Fogel, Martin. (See Thomas, H. M., and Fogel.)
 Fogelquist, Alex. E., Minneapolis, Minn. Pie cutter. No. 1,418,868; June 6.
 Fogg, Newell T., Sanford, Me. Ice-skater's glove. No. 1,402,346; Jan. 3.
 Fogh, Walter B., Seattle, Wash. Rain shield for automobiles. No. 1,404,950; Jan. 31.
 Fogle, Earl C., Elkton, assignor of one-third to E. C. Martz and one-third to J. W. Morrison, Harrisonburg, Va. Bottle filling and capping machine. No. 1,418,146; May 30.
 Foglia, Decimo. (See Sartore, Laurence, assignor.)
 Fokker, Anthony H. G., Amsterdam, Netherlands. Towing connection for flying machines. No. 1,418,783; June 6.
 Fokker, Anthony H. G., Amsterdam, Netherlands. Device for actuating control gears for machine guns. No. 1,426,849; Aug. 22.

Alphabetical list of patentees—Continued.

- Fokker, Anthony H. G., Amsterdam, Netherlands. Safety trigger guard on machine guns. No. 1,426,850; Aug. 22.
- Fokker, Anthony H. G., Amsterdam, Netherlands. Breech lock for machine guns. No. 1,426,851; Aug. 22.
- Fokker, Anthony H. G., Amsterdam, Netherlands. Crank-operating gear for moving the breech in machine guns. No. 1,427,079; Aug. 22.
- Fokker, Anthony H. G., Amsterdam, Netherlands. Armor plate for flying machines. No. 1,433,359; Oct. 24.
- Folberth Auto Specialty Company, The. (See Folberth, William M., assignor.)
- Folberth, Fred G. and W. M., Cleveland, Ohio. Windshield cleaner. No. 1,420,538; June 20.
- Folberth, William M. (See Folberth, Fred G., and W. M.)
- Folberth, William M., Cleveland, Ohio. Windshield cleaner. No. 1,424,890; Aug. 8.
- Folberth, William M., assignor to The Folberth Auto Specialty Company, Cleveland, Ohio. Windshield-cleaning apparatus. No. 1,405,773; Feb. 7.
- Folberth, William M., assignor to The Folberth Auto Specialty Company, Cleveland, Ohio. Windshield cleaner. (Reissue.) No. 15,502; Dec. 5.
- Folberth, William M., assignor to The Folberth Auto Specialty Company, Cleveland, Ohio. Windshield cleaner. No. 1,438,229; Dec. 12.
- Folds, George R., Evanston, assignor to Frank B. Cook Company, Chicago, Ill. Lightning arrester. No. 1,438,953; Dec. 19.
- Folds, George R., Evanston, assignor to Cook Electric Company, Chicago, Ill. Lightning arrester. No. 1,438,954; Dec. 19.
- Foley, Dolner S. (See Osnes, J., Halverson, and Foley.)
- Foley, Frank W., Dollar Bay, Mich. Hammer. No. 1,424,161; Aug. 1.
- Foley, James A., Omaha, Nebr. Burglar alarm. No. 1,424,891; Aug. 8.
- Foley, Timothy C., Renovo, Pa. Chuck and tool holder. No. 1,420,029; June 20.
- Foley, Timothy J., New York, N. Y. Fastening for tool handles. No. 1,412,610; Apr. 11.
- Foley, William V., New Brunswick, N. J. Reflector. No. 1,408,875; Mar. 7.
- Folgmam, Emanuel, Brooklyn, N. Y. Torch. No. 1,434,284; Oct. 31.
- Folk, Charles E., Hagerstown, Md. Device for squaring pistons and scraping bearings. No. 1,438,478; Dec. 12.
- Folker, Howard S., Mill Valley, assignor to The National Safety Appliance Company, San Francisco, Calif. Railway train control. No. 1,439,081; Dec. 19.
- Folker, Howard S., Mill Valley, assignor to The National Safety Appliance Company, San Francisco, Calif. Railway train control. No. 1,439,082; Dec. 19.
- Folkes, Hermann, Brooklyn, N. Y. Ejector for records. No. 1,418,555; June 6.
- Follett, Frederick W., Washington, D. C. Expandable body for automobiles and other vehicles. No. 1,436,984; Nov. 28.
- Folliott, Thomas H., Winnipeg, Manitoba, Canada. Door spring. No. 1,413,717; Apr. 25.
- Follmer, Willis M. (See Graham, Robert S., assignor.)
- Follows, George H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for attaching gears to shafts. No. 1,403,309; Jan. 10.
- Follweiler, Henry M., Hazleton, Pa. Rubber heel. No. 1,409,692; Mar. 14.
- Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic shutter. No. 1,402,486; Jan. 3.
- Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Cut-film magazine. No. 1,431,908; Oct. 10.
- Folse, Raphael J., and F. L. Hecker, New Orleans, La. Tractor. No. 1,428,584; Sept. 12.
- Folsom, Ernest B., assignor to Pacific Mill & Mine Supply Company, San Francisco, Calif. Belt dressing. No. 1,429,498; Sept. 19.
- Folsom, Frederick D. (See Lutz, D. E., and Folsom.)
- Folsom, Robert H., Buffalo, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Internal-combustion engine and controlling combustion therein. No. 1,415,025; May 9.
- Folsom, Thomas C., Tampa, Fla. Railway switch. No. 1,421,444; July 4.
- Foltz, Andrew, Lambertville, N. J. Jar cover and gasket. No. 1,440,349; Dec. 26.
- Fondiller, Fannie B., New York, N. Y. Window porch. No. 1,402,410; Jan. 3.
- Fondiller, William. (See Shaw, T., and Fondiller.)
- Fondiller, William, assignor to Western Electric Company, Incorporated, New York, N. Y. Transformer. No. 1,420,989; June 27.
- Fondiller, William, assignor to Western Electric Company, Incorporated, New York, N. Y. Loading unit. No. 1,436,244; Nov. 21.
- Fonner, Howard L., Altoona, Pa. Shuttle attachment. No. 1,423,099; July 18.
- Fonos, Peter J., New Richmond, Wis. Permutation padlock. No. 1,415,327; May 9.
- Fontaine, Oscar C., Durant, Okla. Disinfecting device. No. 1,439,881; Dec. 26.
- Fontaine, Philippe, and F. K. Robeson, Champaign, Ill. Wind deflector. No. 1,435,385; Nov. 14.
- Fontana, Domenico P., New York, N. Y. Finger ring. No. 1,409,138; Mar. 7.
- Fontanals, Joseph M. (See Rius, H., and Fontanals.)
- Fonville, James D., Jr. (See Griffin, Marion A., assignor.)
- Fooks, Nelson H., Preston, Md. Can-feeding means. No. 1,402,487; Jan. 3.
- Fooks, Nelson H., Preston, Md. Can-transferring device. No. 1,402,488; Jan. 3.
- Foot, William H., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Oiling ring for shaft bearings. No. 1,409,693; Mar. 14.
- Foot Bros. Gear & Machine Co. (See Foote, J. B., and Strite, assignors.)
- Foote-Burt Company, The. (See Case, Francis M., assignor.)
- Foote-Burt Company, The. (See Randles, George E., assignor.)
- Foote, Charles E., assignor to The Foote Company, Nunda, N. Y. Batch meter for concrete mixers and the like. No. 1,419,451; June 13.
- Foote Company, The. (See Foote, Charles E., assignor.)
- Foote, Edward H., Somerville, assignor to Standard Envelope Sealer Manufacturing Company, Everett, Mass. Envelope-sealing device. No. 1,417,897; May 30.
- Foote, Isaac O., Sidney, Iowa. Lotion. No. 1,427,199; Aug. 29.
- Foote, John B., Oak Park, Ill. Variable-speed driving mechanism for tractors. No. 1,419,243; June 13.
- Foote, John B., Oak Park, Ill., and G. T. Strite, Minneapolis, Minn., assignors to Foote Bros. Gear & Machine Co., Chicago, Ill. Gearing for tractors. No. 1,420,995; June 27.
- Foote, John B., Oak Park, Ill., and G. T. Strite, Minneapolis, Minn., assignors to Foote Bros. Gear & Machine Co., Chicago, Ill. Gearing for tractors. No. 1,433,994; Oct. 31.
- Foote, Lewis A., Silver Creek, N. Y. Punching tool. No. 1,407,056; Feb. 21.
- Foote, Moses L., and W. M. Kingsbury, Cleveland, Ohio. Boiler and furnace grate. No. 1,414,732; May 2.
- Foote, Robert E., Harvey, assignor to Scully, Jones & Co., Chicago, Ill. Rotary cutter. No. 1,411,335; Apr. 4.
- Foote, Thomas W., Cleveland, Ohio. Chair base. No. 1,417,816; May 30.
- Foothorap, Harry A., assignor to Elliott-Fisher Company, Harrisburg, Pa. Writing-adding machine. No. 1,421,201; June 27.
- Foothorap, Harry A., Harrisburg, Pa., assignor to Elliott-Fisher Company. Date-printing mechanism for writing adding machines. No. 1,433,194; Oct. 24.
- Forbes, Alexander J., Brooklea, North Kessock, Scotland. Fastening for driving belts. No. 1,422,430; July 11.
- Forbes, David L. H., Kirkland Lake, Ontario, Canada. Cyanide process of treating ores of the precious metals. No. 1,430,635; Oct. 3.
- Forbes, Elbridge J., Revere, Mass. Repair patch. No. 1,414,733; May 2.
- Forbes, Gordon W., et al. (See Rowley, Alfred J., assignor.)
- Forbes, Kingston, Flint, assignor to General Motors Corporation, Detroit, Mich. Latch device for vehicle doors. No. 1,417,239; May 23.
- Forbes, Kingston, Flint, assignor to General Motors Corporation, Detroit, Mich. Combination back and side curtain. No. 1,422,431; July 11.
- Forbes Lithograph Manufacturing Company. (See Mac-Orquodale, Lorne H., assignor.)
- Forbes, Percy L., West Middlesex, Pa. Hay loader. No. 1,422,432; July 11.
- Forbes, Walter S., Port Richmond, N. Y. Antirattler for windows and doors. No. 1,405,575; Feb. 7.
- Forbess, Walter A., Burlington, and Chester R. Ames, Sedro Woolley, Wash. Aligning jig. No. 1,428,224; Sept. 5.
- Forbis, William W., San Francisco, Calif. Tool. No. 1,413,110; Apr. 18.
- Forbush, Walter R., Newton, Mass. Wall construction. No. 1,420,478; June 20.
- Force, Merton H., Danville, Ill. Door stop and holder. No. 1,416,703; May 23.
- Force, Orlando, Akron, Ohio. Divider. No. 1,426,269; Aug. 15.
- Forcier, George J., Cleveland, Ohio. Wall-paper cleaner. No. 1,430,225; Sept. 26.
- Ford, Albert, Wellington, New Zealand. Means for use in the infusion of tea, coffee, and the like. No. 1,439,665; Dec. 19.
- Ford, Arthur, Galesburg, Ill. Combination hog brooder and feeder. No. 1,439,157; Dec. 19.
- Ford, Arthur P., Stoke-upon-Trent, England. Miner's electric safety lamp. No. 1,406,359; Feb. 14.
- Ford, Benson F., near Marion, Iowa. Pump handle. No. 1,412,611; Apr. 11.
- Ford, Bruce, Philadelphia, Pa. Plate terminal for storage batteries. No. 1,433,680; Oct. 31.
- Ford, Bruce, Philadelphia, Pa. Secondary or storage battery. No. 1,433,681; Oct. 31.
- Ford, Bruce, Philadelphia, Pa. Storage-battery plate. No. 1,437,468; Dec. 5.
- Ford, Campbell, San Francisco, Calif. Apparatus for indicating the amount of water in automobile radiators. No. 1,421,930; July 4.
- Ford, Charles A., East Orange, N. J. Snap for jewelry. No. 1,406,179; Feb. 14.
- Ford, Charles M. (See Mitchell, Frederick, assignor.)
- Ford, Clarence W. (See Bossé, A. E., and Ford.)

Alphabetical list of patentees—Continued.

- Ford, Claud J., Portland, Oreg. Shock absorber. No. 1,435,058; Nov. 7.
- Ford, Eardley H. (See Baker, R. E., Ford, and Cummins.)
- Ford, Eardley H. (See Baker, R. E., Ford, and Elliott.)
- Ford, Edward L., assignor to The Youngstown Steel Company, Youngstown, Ohio. Baffle device for puddling furnaces. No. 1,433,195; Oct. 24.
- Ford, Elbert W., Jamestown, N. Y. Game apparatus. No. 1,425,376; Aug. 8.
- Ford, Ethelbert T., assignor to Fordartie Refrigeration Company, Los Angeles, Calif. Refrigeration apparatus. No. 1,413,844; Apr. 25.
- Ford, Francis, Bromptonville, Quebec, Canada. Felt guide for pulp and paper machines and the like. No. 1,414,940; May 2.
- Ford, George G., Brooklyn, N. Y., assignor to L. Sturman, New York, N. Y. Automobile fender-operating mechanism. No. 1,437,098; Nov. 28.
- Ford, George W. (See Ponting, H. G., and Ford.)
- Ford, Hannibal C. (See Moakley, Henry, assignor.)
- Ford, Hannibal C., New York, N. Y., assignor to Ford Instrument Company, Inc. Power transmission. No. 1,415,164; May 9.
- Ford, Hannibal C., New York, N. Y., assignor to Ford Instrument Company, Inc. Signal system. No. 1,420,030; June 20.
- Ford, Hannibal C., New York, N. Y., assignor to Ford Instrument Company, Inc. Automatic stoker. No. 1,425,519; Aug. 15.
- Ford, Harriet L., Seattle, Wash. Dustproof vacuum-cleaner bag. No. 1,403,112; Jan. 10.
- Ford, Henry, Dearborn, Mich. Rear-axle construction. No. 1,430,367; Sept. 26.
- Ford, Henry, & Son, Inc. (See Sorensen, Charles E., assignor.)
- Ford Instrument Company. (See Ford, Hannibal C., assignor.)
- Ford, John W., Hillsboro, Ill., assignor, by mesne assignments, to Spyrosael Manufacturing Company, St. Louis, Mo. Piston ring. No. 1,411,244; Mar. 28.
- Ford, John W., assignor, by mesne assignments, to Spyrosael Manufacturing Company, St. Louis, Mo. Piston ring. No. 1,421,202; June 27.
- Ford, John W., assignor, by mesne assignments, to Spyrosael Manufacturing Company, St. Louis, Mo. Making piston rings. No. 1,421,203; June 27.
- Ford, Matthew A., Davenport, Iowa. Luggage carrier. No. 1,407,994; Feb. 28.
- Ford Motor Company. (See Parkas, Eugene J., assignor.)
- Ford Motor Company. (See Galamb, Joseph, assignor.)
- Ford, Alpha A., Malden, Mass., assignor of one-half to M. J. Thompson, Kennebunk, Me. Process and apparatus for the conversion of peat, lignite, and other carbonaceous substances into artificial coal. No. 1,426,723; Aug. 22.
- Ford, Silas M., St. Paul, Minn. Handling prepared roofing. No. 1,410,667; Mar. 28.
- Ford, Silas M., St. Paul, Minn. Roofing element. No. 1,424,459; Aug. 1.
- Ford & Manion. (See McCloskey, James F., assignor.)
- Fordartie Refrigeration Company. (See Ford, Ethelbert T., assignor.)
- Forde, Gerald, New York, N. Y. Folding baby carriage. No. 1,418,243; May 30.
- Fording, William G., Cleveland, Ohio, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Forming tires. No. 1,422,046; July 4.
- Fording, William G., Cleveland, Ohio, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire. (Reissue.) No. 15,405; July 11.
- Fording, William G., Cleveland, Ohio, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Method of and apparatus for forming a tire bead. No. 1,423,929; July 25.
- Foreman, Samuel E., Paducah, Ky. Automatic carburetor control. No. 1,419,963; June 20.
- Forgeson, Florence M., Goldendale, Wash. Adjustable sieve. No. 1,430,636; Oct. 3.
- Forgy, Mollie S., Center Point, Ark. Cooking range. No. 1,438,434; Dec. 12.
- Forister, Nelson. (See Schwarz, B. J., Forister, and Hirt.)
- Forkner, Jesse C., Fresno, Calif. Fig product. No. 1,433,503; Oct. 24.
- Forlander, Morris, New York, N. Y. Jimmyproof lock. No. 1,428,367; Sept. 5.
- Forlander, Morris, New York, N. Y. Saw-filing machine. No. 1,434,654; Nov. 7.
- Forler, Alvin N., and R. W. Langs, Moose Jaw, Saskatchewan, Canada. Oil burner. No. 1,403,398; Jan. 10.
- Forman, Albert F., Milwaukee, Wis. Advertising device. No. 1,433,360; Oct. 24.
- Forman, Paris R., Chicago, Ill., assignor to National Pneumatic Company, New York, N. Y. Door-operating mechanism. No. 1,412,855; Apr. 18.
- Forman, Paris R., Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y. Fare-recording apparatus. No. 1,422,686; July 11.
- Formby, George M., assignor to Formby Petrinite Corporation, Jacksonville, Fla. Plastic composition and producing same. No. 1,409,939; Mar. 21.
- Formby Petrinite Corporation. (See Formby, George M., assignor.)
- Fornaca, Guido, Turin, Italy. Device for automatically and gradually throwing into gear two toothed gearings. No. 1,403,022; Jan. 10.
- Fornaca, Guido, Turin, Italy. Motor control. No. 1,438,174; Dec. 12.
- Fornander, Edwin, Sandviken, Sweden. Method of and means for reducing ores in electric blast furnaces. No. 1,430,971; Oct. 3.
- Fornas, Louis, Paris, France. Gas producer. No. 1,422,093; July 11.
- Forner, Roy L., Grimes, Okla. Collapsible crate. No. 1,436,859; Nov. 21.
- Forner, Sven. (See Bohlin, N., and Forner.)
- Forney, Robert L. (See Hopkins, O. B., and Forney.)
- Forrest, Alfred L., Baltimore, Md. Nonslipping attachment for vehicle wheels. No. 1,409,940; Mar. 21.
- Forrest, Alfred L., Baltimore, Md. Nonskid device for automobile wheels. No. 1,410,906; Mar. 28.
- Forrest, Charles N., Rahway, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa. Bituminous sheet roofing and weatherproofing material. No. 1,429,728; Sept. 19.
- Forrest, Charles N., Rahway, N. J., assignor to The Barber Asphalt Paving Company, Philadelphia, Pa. Flotation process for metallic separation. No. 1,438,590; Dec. 12.
- Forrest, John H. (See Forrest, Mattie L., assignor.)
- Forrest, Mattie D., assignor of one-half to J. H. Forrest, Marion, Ind. Hook and eye. No. 1,418,244; May 30.
- Forrest, William H. (See Smith, Roland L., assignor.)
- Forrester, Samuel C., assignor to Fulton Bag and Cotton Mills, Atlanta, Ga. Mounting for flexible plates for flat-bed presses. No. 1,439,808; Dec. 26.
- Forry, Charles E. (See Duncan, A. L., and Forry.)
- Forsberg, Canute H. and C. W., Patton, Pa. Scraper attachment for various brushes. No. 1,430,441; Sept. 26.
- Forsberg, Carl W. (See Forsberg, Canute H. and C. W.)
- Forsberg, Fred A., Rockford, Ill. Auto signal. No. 1,430,972; Oct. 3.
- Forsberg, Oscar A., assignor to Crane Company, Chicago, Ill. Sand-blast apparatus. No. 1,419,130; June 13.
- Forsberg, Peter W., Schenectady, N. Y., assignor to General Electric Company. Electric braking. No. 1,421,931; July 4.
- Forselle, Lucian F., Cincinnati, Ohio. Fluid condensing or heating device. No. 1,410,561; Mar. 28.
- Forseth, Alfred E., Hardwick, Minn. Antiskid-chain hook. No. 1,415,328; May 9.
- Forshee, Frank F. (See Thornton, F., jr., and Forshee.)
- Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Flexible water heater. No. 1,406,360; Feb. 14.
- Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Control system for electric ranges. No. 1,416,009; May 16.
- Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Contact terminal. No. 1,424,290; Aug. 1.
- Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Screw-socket connection for radiators. No. 1,425,638; Aug. 15.
- Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Electric air heater. No. 1,433,711; Oct. 31.
- Forshey, Paul D., and W. J. Fish, Hamilton, Ohio. Beater attachment. No. 1,434,536; Nov. 7.
- Forster, Adam., assignor of one-half to J. J. Mount, Pittsburgh, Pa. Back check and controller for artificial legs. No. 1,415,329; May 9.
- Forster, Andrew, Cowes, assignor to J. Samuel White & Company Limited, East Cowes, Isle of Wight, England. Apparatus for use in the burning of liquid fuel. No. 1,437,300; Nov. 28.
- Forster, Conrad. (See Forster, Heinrich, assignor.)
- Forster, Heinrich, Bruggen, Switzerland, assignor of one-half to C. Forster, Dedham, Mass. Imparting transparent effects to cotton. No. 1,430,163; Sept. 26.
- Forster, John J., assignor of one-half to W. K. Hart, jr., Midland, Pa. Window shade. No. 1,439,540; Dec. 19.
- Forster, Rowland, Dauphin, Manitoba, Canada. Bag holder. No. 1,419,244; June 13.
- Forster, William J., Dallas, Tex. Regulator for gasoline engines. No. 1,432,990; Oct. 24.
- Forsyth, George H., Chicago, Ill. Metal sash construction. No. 1,405,829; Feb. 7.
- Forsyth, George H., Harvey, Ill. Disk wheel. No. 1,420,651; June 27.
- Forsyth, George H., Chicago, Ill. Spare-tire carrier. No. 1,422,094; July 11.
- Forsyth, George H., Chicago, Ill. Disk wheel. No. 1,427,366; Aug. 29.
- Forsyth, George H., Chicago, Ill. Disk wheel. No. 1,439,700; Dec. 26.
- Forsyth, George T., St. Paul, Minn. Universal joint. No. 1,403,679; Jan. 17.
- Forsyth, George T., St. Paul, Minn. Universal joint. No. 1,406,361; Feb. 14.
- Forsyth, Robert B., Christchurch, New Zealand. Milking-machine pulsator. No. 1,420,421; June 20.
- Forsythe, John W., Edgewood Park, and F. N. Hays, Pittsburgh, Pa. Bin gate. No. 1,434,488; Nov. 7.
- Fort, George L., Kansas City, Mo. Automatic cold-metal feeder for type-casting machines. No. 1,412,856; Apr. 18.

Alphabetical list of patentees—Continued.

- Fort, Morris. (See Lumsden, J. D., Mackenzie, Robinson, and Fort.)
- Fort Pitt Bedding Company. (See Findura, John, assignor.)
- Fort Wayne Engineering and Manufacturing Company. (See Astrom, John I., assignor.)
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupter. No. 1,427,369; Aug. 29.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Apparatus for electrical precipitation. No. 1,427,370; Aug. 29.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Ionizing electrode for precipitating apparatus. No. 1,428,839; Sept. 12.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupter. No. 1,429,278; Sept. 19.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupting device. No. 1,433,712; Oct. 31.
- Fortescue, Charles L., Pittsburgh, and F. C. Hanker, Wilkensburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Circuit interrupter. No. 1,427,367; Aug. 29.
- Fortescue, Charles L., and J. B. MacNeill, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. Circuit interrupter. No. 1,427,368; Aug. 29.
- Forth, Charles, Detroit, Mich. Resilient support for vehicle bodies. No. 1,428,770; Sept. 12.
- Fortier, Charles L., assignor to Johnson Service Company, Milwaukee, Wis. Time-controlled thermostat or the like. No. 1,419,667; June 13.
- Fortier, Edmond J., Kankakee, Ill. Automatic valve. No. 1,427,098; Aug. 29.
- Fortier, Ferdinand, Manchester, N. H. Ice-chest alarm. No. 1,412,612; Apr. 11.
- Fortin, Benjamin P., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriter cabinet. No. 1,404,843; Jan. 31.
- Forton, George, Detroit, Mich. Handsaw. No. 1,438,175; Dec. 12.
- Fortoni, Luigi, London, England. Typewriting machine for music. No. 1,429,862; Sept. 19.
- Fortoni, Luigi, London, England. Music typewriter. No. 1,436,491; Nov. 21.
- Fortunato, Antonio A., Boston, Mass. Heel for women's shoes. No. 1,417,156; May 23.
- Forwood, George F., assignor to The United Kingdom Oil Company Limited, London, England. Treatment of hydrocarbons. No. 1,440,286; Dec. 26.
- Forzly, Nacle F., New York, N. Y. Buttonhook. No. 1,425,760; Aug. 15.
- Fossdick Machine Tool Company, The. (See Larsh, James E., assignor.)
- Foss, Ernest G., Rock Hill, N. Y. Brush handle. No. 1,406,841; Feb. 14.
- Foss, H. D., Company. (See Foss, Herbert D., assignor.)
- Foss, Herbert D., Brookline, assignor to H. D. Foss & Company, Inc., Cambridge, Mass. Dispensing and display holder for confectionery. No. 1,423,845; July 25.
- Foss-Hughes Company. (See Noonan, Albert S., assignor.)
- Foss, John E., Jamaica Plain, Mass. Holder for edge-setting tools. No. 1,419,496; June 13.
- Foss, Sigurd O., Christiania, Norway. Arrangement for breaking and loading coal in coal mines. No. 1,439,666; Dec. 19.
- Foss, William A., Cleveland, Ohio. Artificial bait. No. 1,420,422; June 20.
- Fossa, Joseph, New York, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. No. 1,406,180; Feb. 14.
- Fossel, Amos, Gilbert, Iowa. Harrow. No. 1,402,590; Jan. 3.
- Fossel, Joseph, Grafton, assignor to Alsatian Machine Works, Limited, Boston, Mass. Combing machine. No. 1,416,951; May 23.
- Fosston-Carpenter Company. (See Carpenter, Francis W., assignor.)
- Foster, Alvin, New Orleans, La. Handle. No. 1,411,209; Mar. 28.
- Foster, Bert D., assignor of one-half to M. L. Mohn, Santa Monica, Calif. Internal-combustion-engine manifold. No. 1,436,704; Nov. 28.
- Foster Bros. Mfg. Co. (See Frank, William E., assignor.)
- Foster, Catherine, Rochester, N. Y. Money belt and supporter. No. 1,418,371; June 6.
- Foster, Chester B., and F. H. Clement, deceased, Rochester, N. Y.; L. S. Clement, M. G. Clement, and B. H. Clement, executors; said executors assignors of the entire right of said F. H. Clement, deceased, to American Woodworking Machinery Company; said Foster assignor of his entire right to American Woodworking Machinery Company, Rochester, N. Y. Feeding chain for woodworking and other machines. No. 1,424,090; July 25.
- Foster, Edward B., Quartzsite, Ariz. Handcuff. No. 1,410,802; Mar. 28.
- Foster, Edward E., Beverly, assignor to C. C. Blake, Incorporated, Boston, Mass. Thread measurer. No. 1,439,882; Dec. 26.
- Foster, Ernest H., Dongan Hills, assignor to Power Specialty Company, New York, N. Y. Superheater. No. 1,416,809; May 23.
- Foster, Ernest H., Dongan Hills, assignor to Power Specialty Company, New York, N. Y. Superheater. No. 1,422,847; July 18.
- Foster, Frank A., and J. E. Fraley, Hoopeston, assignors to Sprague Canning Machinery Company, Chicago, Ill. Blancher. No. 1,435,285; Nov. 14.
- Foster, Harry C. (See De Martin, C. L., and Foster.)
- Foster, Harry C., Connerville, Ind., assignor to Indiana Lamp Company. Socket clamp for lamps. No. 1,404,751; Jan. 31.
- Foster, Henry J., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Rim-connecting means. No. 1,412,558; Apr. 11.
- Foster, Henry J., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Tensioned metal wheel. No. 1,414,013; Apr. 25.
- Foster, Hugh M., Globe, Ariz. Combined shoulder brace and garment supporter. No. 1,413,017; Apr. 18.
- Foster, James D., Tuscaloosa, Ala. Burner heater for brooders and hoverers. No. 1,434,537; Nov. 7.
- Foster, John C., New York, N. Y. Spring-operated motor. No. 1,421,922; July 4.
- Foster, Lester. (See Foster, Orval B. and L.)
- Foster, Louis E., Annapolis, Md., assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Testing machine. No. 1,409,842; Mar. 14.
- Foster Machine Company. (See McKean, John O., assignor.)
- Foster, Merriam & Company. (See Millard, R. W., and Michaels, assignors.)
- Foster, Mills C., Regina, Saskatchewan, Canada. Train-stopping device. No. 1,407,742; Feb. 28.
- Foster, Nathaniel L. (See Crane, Frederick D., assignor.)
- Foster, Nellie L., and H. B. Lupien, Manchester, N. H. Attachment for leather-skiving machines. No. 1,403,240; Jan. 10.
- Foster, Orval B. and L., Fort Smith, Ark. Radiator composition. No. 1,407,995; Feb. 28.
- Foster, Peter W., assignor to Kellogg Toasted Corn Flake Company, Battle Creek, Mich. Oven for toasting cereal foods. No. 1,419,131; June 13.
- Foster, Robert B., Wellsville, Ohio. Flange wrench. No. 1,425,845; Aug. 15.
- Foster, Robert T., Seattle, Wash. Starting device for aeroplane engines. No. 1,417,508; May 30.
- Foster, Samuel, jr., Leominster, Mass. Bracelet. No. 1,439,510; Dec. 19.
- Foster, Selden C., Norway, Me. Combined chart and blackboard. No. 1,423,175; Oct. 17.
- Foster, Shubel A., Hartford, Conn. Micrometer gauge. No. 1,416,810; May 23.
- Foster, Walter H. (See Cole, A. G., Foster, and Fry.)
- Foster, Walter L. (See Meredith, W., and Foster.)
- Fotacos, Peter, New York, N. Y. Dowel pin. No. 1,429,200; Sept. 12.
- Fothergill, Harry, London, England. Apparatus for removing gases from liquids. No. 1,416,632; May 16.
- Fothergill, Harry, London, and J. Gunn, Barrow-in-Furness, England. Boiler-feed-water supply and steam-condensing plant. No. 1,408,574; Mar. 7.
- Fouché, Edmond, Paris, France. Blowpipe. No. 1,418,245; May 30.
- Fouchy, Albert, assignor of one-half to La Compagnie Des Transporteurs Simplex, Paris, France. Tip car. No. 1,409,694; Mar. 14.
- Fougner, Björn E., Fredrikshald, Norway. Driving device for rolling up endless paper and the like. No. 1,404,284; Jan. 24.
- Foulk, Albert C., Holton, Kans. Flexible balanced support. No. 1,427,799; Sept. 5.
- Fountain, Claude R., Macon, Ga. Radioelectron oscillator. No. 1,424,091; July 25.
- Fountain, Joseph M., San Francisco, Calif. Piston construction for internal-combustion engines. No. 1,435,386; Nov. 14.
- Four Wheel Hydraulic Brake Company. (See Loughhead, Malcolm, assignor.)
- Fourchy, Richard, Alameda, Calif. Fruit-pitting machine. No. 1,407,524; Feb. 21.
- Fourneaux, Emile A. (See Turner, G., and Fourneaux.)
- Fournier, Frederick, San Francisco, Calif. Window adjuster. No. 1,422,552; July 11.
- Fournier, Frederick, San Francisco, Calif. Window fastener or latch. No. 1,427,730; Aug. 29.
- Fournier, William L., Seattle, Wash. Sanding device for vehicles. No. 1,424,758; Aug. 8.
- Fousek, Joseph, San Francisco, Calif. Cake-forming machine. No. 1,417,157; May 23.
- Fousha, Arthur D. (See Lovelace, C., and Fousha.)
- Fouts, Calvin C., Middletown, Ohio. Supporting device for carboys and the like. No. 1,403,023; Jan. 10.
- Fowle, Arthur E., and J. P. Crowley, assignors to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Apparatus for and method of drawing sheet glass. No. 1,435,958; Nov. 21.
- Fowle, Charles L., and W. Bills, assignors to Dowagiac Drill Company, Dowagiac, Mich. Grain drill. No. 1,413,845; Apr. 25.
- Fowle, Frank F., Winnetka, Ill. Turbine motor. No. 1,433,995; Oct. 31.

- Fowler, Alfred B., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for removing dust. No. 1,402,755; Jan. 10.
- Fowler, Alfred B., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Rotary cutter head. No. 1,407,021; Feb. 21.
- Fowler, Alfred B., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for grinding curved trimming blades. No. 1,424,196; Aug. 1.
- Fowler, Courtney B., Petersburg, Ind. Fender. No. 1,410,399; Mar. 21.
- Fowler, Edward, and J. V. Lewis, St. Elmo, Tenn. Cultivator. No. 1,408,575; Mar. 7.
- Fowler, Edward, and J. V. Lewis, St. Elmo, Tenn. Draft coupling. No. 1,422,194; July 11.
- Fowler, Edward J., Redwood City, and C. Kellie, San Francisco, Calif., assignors to Pacific Foundry Company, San Francisco, Calif. Reinforced flange for flanged products. No. 1,407,791; Feb. 28.
- Fowler, Elbert. (See Butler, J. S., and Fowler.)
- Fowler, Elbert, U. S. Army. Machine-gun casing. No. 1,434,812; Nov. 7.
- Fowler, Ernest U., Tustin, Calif. Tree stay. No. 1,407,139; Feb. 21.
- Fowler, Friend, Moose Jaw, Saskatchewan, Canada. Grain cleaner. No. 1,426,270; Aug. 15.
- Fowler, George R., Marlboro, N. Y. Basket handle and lid fastener. No. 1,424,009; July 25.
- Fowler, John P., Somerville, Mass. Pulley. No. 1,402,489; Jan. 3.
- Fowler, Jonathan O., New York, N. Y. Key base for plastic material. (Reissue.) No. 15,406; July 11.
- Fowler, Neil A., Chicago, Ill., assignor to Wirebounds Patents Company. Machine for manufacturing box blanks. No. 1,402,289; Jan. 3.
- Fowler, Percy S., Norbiton, England. Constructional toy. No. 1,436,492; Nov. 21.
- Fowler, Talman V. (See Arcate, J. J., and Fowler.)
- Fowler and Union Horse Nail Company, (Inc.). (See Lange, Gustav W., and G. M., assignors.)
- Fowler, Walter C., Trenton, N. J. Pencil. No. 1,406,362; Feb. 14.
- Fowler, Wilbur B., Des Moines, Iowa. Corn trimmer. No. 1,436,162; Nov. 21.
- Fowler, William M., Sound Beach, Conn. Receptacle support for filling machines. No. 1,430,973; Oct. 3.
- Fowles, Alfred T., Dallas, Tex. Water-heating drum. No. 1,429,863; Sept. 19.
- Fox, Arnold, New York, N. Y. Screw-holding attachment to screwdriver. No. 1,403,680; Jan. 17.
- Fox, C. F., The. (See Scott, Walter E., assignor.)
- Fox, Charles H., Philadelphia, Pa. Supporting frame or foundation for cut flowers. No. 1,433,808; Oct. 31.
- Fox, Elmer E., Massillon, Ohio. Tie plate. No. 1,431,296; Oct. 10.
- Fox, Frederick L., Washington, D. C. Dispensing tube and closure therefor and joining same. No. 1,424,243; Aug. 1.
- Fox, George A., Quimby, Iowa. Closure device for egg crates. No. 1,436,440; Nov. 21.
- Fox, George E., Chicago, Ill. Desk pad. No. 1,406,838; Feb. 14.
- Fox, George E., Chicago, Ill. Desk accessory. No. 1,410,668; Mar. 28.
- Fox, Harry, Cincinnati, Ohio. Window-sash fastener. No. 1,407,022; Feb. 21.
- Fox, James M., Madison, Wis. Anchoring means for concrete bodies. No. 1,428,771; Sept. 12.
- Fox, John. (See Lawrence, Albert A., assignor.)
- Fox, John C. (See Phelps, H. C., and Fox.)
- Fox, John M., et al. (See Storey, William H., assignor.)
- Fox, Joseph C., Seattle, Wash. Liquid-level indicator for automobile tanks. No. 1,420,628; June 27.
- Fox, Joseph C., Seattle, Wash. Tank-registering gauge. No. 1,431,516; Oct. 10.
- Fox, Joseph P., St. Cloud, Minn. Sign. No. 1,433,127; Oct. 24.
- Fox Machine Company. (See Fox, W. R., and Corwin, assignors.)
- Fox, Ralph E., New York, N. Y. Flexible graph. No. 1,420,249; June 20.
- Fox, Thomas S., Brooklyn, N. Y. Printing. No. 1,420,086; June 20.
- Fox, William F., et al. (See Cryan, William H., assignor.)
- Fox, William R., and H. D. Corwin, assignors to Fox Machine Company, Jackson, Mich. Pipe cutter. No. 1,438,991; Dec. 19.
- Foxboro Company, The. (See Bristol, Edgar H., assignor.)
- Foxboro Company, The. (See Middleton, Charles J., assignor.)
- Foxhall, Frederick A., Homestead, Pa. Grip. No. 1,435,634; Nov. 14.
- Foye, Cyrus D., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-beating machine. No. 1,426,372; Aug. 22.
- Frackelton, Henry A., Schenectady, N. Y. Gauge cock. No. 1,430,368; Sept. 26.
- Frahm, Hermann G. C., Brahmstall, Hamburg, Germany. Marine vessel. No. 1,427,526; Aug. 29.
- Fraley, James E. (See Foster, F. A., and Fraley.)
- Frambach, Mathew J., Hartley, Iowa. Chain coupling. No. 1,405,830; Feb. 7.
- Frambach, Mathew J., Hartley, Iowa. Link for tire chains. No. 1,439,303; Dec. 19.
- Frame, John, Searsport, Me. Scale. No. 1,425,466; Aug. 8.
- Frampton, Benjamin W., Cleveland, Ohio. Machine for handling bottles and bottle cases. No. 1,433,128; Oct. 24.
- Frampton, David A., et al. (See Velcio, John, assignor.)
- France, Arthur G., London, England. Reflector. No. 1,418,556; June 6.
- France, Burton W., Brooklyn, N. Y. Demountable rim. No. 1,403,468; Jan. 10.
- Franchini, Giovanni, San Francisco, Calif. Warning signal. No. 1,414,078; Apr. 25.
- Francis, Charles W., Paterson, N. J., assignor to Gillespie Eden Corporation. Oil guard. No. 1,429,942; Sept. 26.
- Francis, Franklin P., Orland, Calif. Mudguard for automobiles. No. 1,412,306; Apr. 11.
- Francis, Henry, Shepherd's Bush, England. Cutting or boring tool or boring head. No. 1,434,995; Nov. 7.
- Francis, Virgil C., Minneapolis, Minn. Automatic film-change alarm and rotating device. No. 1,433,196; Oct. 24.
- Francis, William H., Cherryvale, Kans. Base. No. 1,433,996; Oct. 31.
- Francis, William H., Cherryvale, Kans. Handling articles and apparatus therefor. No. 1,434,883; Nov. 7.
- Francisco, Cary, Porterville, Calif. Stitch clipper for scissors. No. 1,423,791; July 25.
- Francisco, Joseph B., Columbus, Ohio. Automobile heater. No. 1,429,332; Sept. 19.
- Francisco, Joseph B., Columbus, Ohio. Auto register. No. 1,438,591; Dec. 12.
- Francisco, Julian, Toledo, Ohio. Signaling device. No. 1,437,643; Dec. 5.
- Frank, Willi, Rock Island, Ill. Vise. No. 1,407,743; Feb. 28.
- Franco Electric Corporation. (See Manson, Leon B., assignor.)
- Franco, Mario, Turin, Italy. Seamless head and part of toys of felt or the like. No. 1,407,649; Feb. 21.
- Francols, Albert, Hatfield, near Doncaster, England. Making fissured water-bearing strata water-tight. No. 1,430,306; Sept. 26.
- Frank, John. (See Allen, D. R., and Frank.)
- Frank, August C., Hayward, Calif. Vacuum-cleaner nozzle. No. 1,427,200; Aug. 29.
- Frank, Beecher, Cleveland, Ohio. Tire holder. No. 1,417,817; May 30.
- Frank, David W., Bethlehem, Pa. Combination broom. No. 1,424,291; Aug. 1.
- Frank, Ernst, assignor to Patent-Treuhand-Gesellschaft für elektrische Glühlampen m. b. H., Berlin, Germany. Manufacture of hollow glass bodies particularly for electric glowlamp bulbs. No. 1,420,996; June 27.
- Frank, John J., Spokane, assignor to A. A. Proulx, Almira, Wash. Thrust bearing for crank shafts. No. 1,429,499; Sept. 19.
- Frank, John J., Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. No. 1,437,232; Nov. 28.
- Frank, George W., sr. (See Frank, G. W., and Carlock, assignors.)
- Frank, George W., jr., and F. Carlock, Jersey City, N. J., assignors to themselves and G. W. Frank, sr. Burglar alarm. No. 1,426,169; Aug. 15.
- Frank, John J., Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. No. 1,411,619; Apr. 4.
- Frank, Karl G., Wyoming, N. J. Vibrating reed instrument. No. 1,416,550; May 16.
- Frank, Maxwell C., Piedmont, Calif. Attachment for electric switches. No. 1,420,829; June 27.
- Frank, Otto H., Brooklyn, N. Y. Gas heater for sadirons. No. 1,424,460; Aug. 1.
- Frank, Paul. (See Pohlmann, H., and Frank.)
- Frank, Samuel, assignor to M. A. Heimann Manufacturing Company, St. Louis, Mo. Skirt gauge. No. 1,434,379; Nov. 7.
- Frank, Samuel H. (See Weil, Morton M., assignor.)
- Frank, Walter. (See Collison, J. G., Wright, Filbert, and Frank.)
- Frank, William, assignor of one-half to W. Taylor, Vancouver, British Columbia, Canada. Railway-car water closet. No. 1,422,953; July 18.
- Frank, William C., Johnstown, Pa. Furnace port. No. 1,439,360; Dec. 19.
- Frank, William E., assignor to Foster Bros. Mfg. Co., St. Louis, Mo. Day bed. No. 1,433,538; Oct. 31.
- Frank, William E., assignor to Foster Bros. Mfg. Co., St. Louis, Mo. Coiled-spring structure. No. 1,433,539; Oct. 31.
- Frank, August H., St. Louis, Mo. Oil filter. No. 1,402,411; Jan. 3.
- Frank, Johan F., Santa Ana, Calif. Dispensing device. No. 1,405,197; Jan. 31.
- Frankel, Adolph, New York, N. Y. Machine for setting snap fasteners. No. 1,415,330; May 9.
- Frankel, Arwed, Berlin, Germany. Coke-quenching receptacle. No. 1,421,445; July 4.

Alphabetical list of patentees—Continued.

- Frankel, Edward M., and K. G. Falk, assignors to W. G. Lyle, trustee, New York, N. Y. Apparatus for preserving food. No. 1,418,638; June 6.
- Frankel, Edward T., New York, N. Y. Slide rule. No. 1,404,951; Jan. 31.
- Frankel, Harry I., New York, and H. M. Dustin, Brooklyn, N. Y. Valve for irons. No. 1,432,682; Oct. 17.
- Frankel, James D., Chicago, Ill. Artificial tooth and backing therefor. No. 1,433,997; Oct. 31.
- Frankel, Louis. (See Gorman, W. J., Frankel, and Wohlgezogen.)
- Frankel, Louis. (See Voigt, Max T., assignor.)
- Frankenberg, Julius, Chicago, Ill. Automatic expansion valve. No. 1,402,926; Jan. 10.
- Frankenberg, Julius, Chicago, Ill. Fluid gas compressor and refrigerating unit. No. 1,412,237; Apr. 11.
- Frankenbüsch, Otto, Vienna, Austria. Apparatus for inking ribbons for typewriters of any make. No. 1,422,757; July 11.
- Frankenfeld, Leo, Hoboken, assignor to Federated Engineers Development Corporation, Jersey City, N. J. Knockdown box. No. 1,436,163; Nov. 21.
- Frankenstein, Henry, New York, N. Y. Carpet-sweeper attachment. No. 1,420,830; June 27.
- Frankenthaler & Frankenthaler. (See Pivar, George, assignor.)
- Frankforter, George B., U. S. Army. Pressure indicator for internal-combustion engines. No. 1,424,461; Aug. 1.
- Frankland, Edwin, Pontiac, assignor of one-half to A. E. Carle, Detroit, Mich. Front-wheel brake for motor vehicles. No. 1,433,540; Oct. 31.
- Frankland, William H., Jackson, Tenn. Sharpening device. No. 1,417,158; May 23.
- Franklin, Aaron D., administrator. (See McLain, Wade H.)
- Franklin Baker Company, The. (See Cooper, Simon, assignor.)
- Franklin Baker Company, The. (See Jones, Herbert C., assignor.)
- Franklin Barn Equipment Co. (See Langer, Rudolph J., assignor.)
- Franklin, Charles B., Pineville, La. Burial vault. No. 1,415,435; May 9.
- Franklin, Charles B., assignor to Hendee Manufacturing Company, Springfield, Mass. Handle-bar bracket for motor cycles. No. 1,405,107; Jan. 31.
- Franklin, Charles B., assignor to Hendee Manufacturing Company, Springfield, Mass. Kick-starter support. No. 1,420,479; June 20.
- Franklin, Charles J., assignor to Camden Curtain & Embroidery Company, Camden, N. J. Stop motion for sewing machines. No. 1,430,498; Sept. 26.
- Franklin, E. I. & Co. (See Willis, Warren E., assignor.)
- Franklin, Emlen A., and G. J. Daley, Fort Collins, Colo. Jigging beet washer and rock catcher. No. 1,430,896; Oct. 3.
- Franklin, Frederick W. (See Baker, W. W., and Franklin.)
- Franklin, H. H., Manufacturing Company. (See Stellmann, Louis M., assignor.)
- Franklin, H. H., Manufacturing Company. (See Wilkinson, John, assignor.)
- Franklin, H. H., Mfg. Company. (See Brown, William H., assignor.)
- Franklin, Howard W., assignor to J. G. Franklin & Sons, Limited, Dalston, London, England. Inflatable toy. No. 1,413,978; Apr. 25.
- Franklin, J. G., & Sons, Limited. (See Franklin, Howard W., assignor.)
- Franklin, Joseph A., Chicago, Ill., assignor to Speed King Manufacturing Co. Malted-milk dispenser and mixer. No. 1,437,644; Dec. 5.
- Franklin Knitting Mills. (See Worms, Sidney, assignor.)
- Franklin, Leon, Evansville, Wis. Freight-car door. No. 1,424,292; Aug. 1.
- Franklin Railway Supply Company. (See Martin, Frederick W., assignor.)
- Franklin Railway Supply Company. (See Peters, Frank R., assignor.)
- Franklin Railway Supply Company. (See Sampson, Leslie G., assignor.)
- Franklin Railway Supply Company. (See Schellens, Eugene L., assignor.)
- Franklin Railway Supply Company. (See Woodard, William E., assignor.)
- Franklin Valveless Engine Company. (See Sheasley, Charles H., assignor.)
- Franklin, Walter H., Mount Vernon, Wash. Fuel and refuse container. No. 1,411,336; Apr. 4.
- Franklin, Walter H., Mount Vernon, assignor to Railway Safety Switch Lock Company, Seattle, Wash. Lock for switch stands. No. 1,406,363; Feb. 14.
- Franks, Charles, et al. (See Bahr, August T. J., assignor.)
- Franks, George M., St. Paul, Minn. Display device. No. 1,422,845; July 18.
- Franks, George M., St. Paul, Minn. Collapsible display stand. No. 1,425,846; Aug. 15.
- Franks, John L., Winters, Tex. Insect destroyer. No. 1,419,900; June 13.
- Fransen, Arvid. (See Carlson, O. J., and Fransen.)
- Fransen, John. (See Carlson, O. J., and Fransen.)
- Franson, Claudius, Annonay, France. Machine for ungraining and softening hides. No. 1,425,467; Aug. 8.
- Fransson, Sven W., Jutland, N. J., assignor to S. Teplitz, New York, N. Y. Valve. No. 1,433,129; Oct. 24.
- Frantsits, Paul, Wilmerding, Pa. Car mover. No. 1,438,818; Dec. 12.
- Frantz, Albert D., assignor of one-half to G. B. Conrad, Battle Creek, Mich. Life preserver. No. 1,412,803; Apr. 11.
- Frantz, Andrew A., Topeka, Kans. Loading and unloading mechanism. No. 1,408,576; Mar. 7.
- Frantz, Charles T., Chicago, Ill. Controlled variable-speed motor mechanism. No. 1,437,233; Nov. 28.
- Frantz, James, assignor to White-American Locomotive Sander Company, Incorporated, Roanoke, Va. Locomotive sander. No. 1,409,538; Mar. 14.
- Frantz Manufacturing Co. (See Frantz, Peter, assignor.)
- Frantz, Peter, assignor to Frantz Manufacturing Co., Sterling, Ill. Door catch to hold the door open. No. 1,408,577; Mar. 7.
- Frantz, Peter, assignor to Frantz Manufacturing Co., Sterling, Ill. Garage-door construction. No. 1,420,087; June 20.
- Frantz, Peter, assignor to Frantz Manufacturing Co., Sterling, Ill. Garage-door construction. No. 1,426,170; Aug. 15.
- Frantz, Peter, assignor to Frantz Manufacturing Company, Sterling, Ill. Parallel-sliding-door construction. No. 1,428,023; Sept. 5.
- Frantzen, Arthur. (See Hartwig, William G., assignor.)
- Frantz, August, Garfield, N. J. Device for clearing obstructions from railway tracks. No. 1,439,083; Dec. 19.
- Frantz, Charles F. (See Frantz, John W., assignor.)
- Fransen, Charles F., Chaska, Minn. Clothesline support. No. 1,423,762; July 25.
- Frantz, George A., Omaha, Nebr. Hair waver. No. 1,428,585; Sept. 12.
- Frantz, John W., St. Louis, Mo., assignor of one-half to C. F. Frantz, Staunton, Ill. Baby high chair. No. 1,437,175; Nov. 28.
- Frantzen, Henry M., Los Angeles, Calif. Universal level. No. 1,409,537; Mar. 14.
- Frantzen, Jacob, West McKenry, Ill. Fence-wire stretcher. No. 1,435,059; Nov. 7.
- Frantzwa, Charles F., Eau Claire, Wis. Spatulating device. No. 1,430,070; Sept. 26.
- Frary, Francis C. (See Edwards, J. D., Frary, and Churchill.)
- Frary, Francis C., Oakmont, assignor to Aluminum Company of America, Pittsburgh, Pa. Aluminum alloy. No. 1,412,280; Apr. 11.
- Frary, Francis C., Oakmont, assignor to Aluminum Company of America, Pittsburgh, Pa. Aluminum alloy. (Reissue.) No. 15,407; July 11.
- Fraser, Arthur C., trustee. (See Bell, Harvey W., assignor.)
- Fraser, Arthur M., Westboro, Mass. Lathe dog. No. 1,419,452; June 13.
- Fraser, Donald, Shawville, Quebec, Canada. Burglar alarm. No. 1,438,592; Dec. 12.
- Fraser, Donald, S. Shafer, Jr., and C. W. Levalley, deceased, by H. P. Levalley and Wisconsin Trust Company, executors, assignors to Chain Belt Company, Milwaukee, Wis. Apparatus for conveying and delivering material. No. 1,422,687; July 11.
- Fraser, Ethelbert M., Yonkers, N. Y. Power transmission and control. No. 1,416,273; May 16.
- Fraser, George H., Brooklyn, N. Y. Screen and other separator. No. 1,434,435; Nov. 7.
- Fraser, George H., Brooklyn, N. Y. Screen and other separator. No. 1,434,600; Nov. 7.
- Fraser, George H., Brooklyn, N. Y. Screen or separator. No. 1,434,691; Nov. 7.
- Fraser, George H., Brooklyn, N. Y. Separator and the like. No. 1,434,692; Nov. 7.
- Fraser, Henry A., and F. F. Crighton, London, England. Weaving of coiled-wire fabrics and machine therefor. No. 1,431,645; Oct. 10.
- Fraser, Le Roy B., New Haven, Conn. Finishing spinning rings. No. 1,437,234; Nov. 28.
- Fraser, Lester C., assignor of one-half to I. M. Walcott, Los Angeles, Calif. Oil-gas burner. No. 1,417,159; May 23.
- Fraser, Robert H., Battle Creek, Mich. Record binder. No. 1,429,864; Sept. 19.
- Fraser Tablet Company. (See Coombs, Milton C., assignor.)
- Fraser, W. Simon, Marieapolis, Manitoba, Canada. Automobile sled. No. 1,415,165; May 9.
- Fraser, Warren F., Westboro, Mass. Mechanical movement. No. 1,424,397; Aug. 1.
- Fraser, Warren F., Westboro, Mass. Grinder. No. 1,424,398; Aug. 1.
- Fraser, Warren F., Westboro, assignor to Norton Company, Worcester, Mass. Easy-start reversing mechanism for machine-tool tables. No. 1,439,304; Dec. 19.
- Fraser, William H., New York, N. Y. Douche. No. 1,437,411; Dec. 5.
- Fraser, William J., Toronto, Ontario, Canada. Apparatus for manufacturing painted signs. No. 1,426,830; Aug. 22.
- Fratrach, Louis. (See Zeblich, Mike, assignor.)
- Fray, James A., assignor to Coulter & McKenzie Machine Company, Bridgeport, Conn. Shearing dies for spring plates. No. 1,426,470; Aug. 22.
- Frayer, Lee A., and W. J. Miller, Columbus, Ohio. Tempering apparatus. No. 1,416,811; May 23.

- Frazer, Frank J., Osage, Iowa. Automatic stop for sound-reproducing apparatus. No. 1,409,539; Mar. 14.
- Frazer, Leonard D. (See Jensen, Carl M., assignor.)
- Frazer, Ernest, Portage Lake, Me. Anvil horseshoe vise. No. 1,419,132; June 13.
- Frazier, J. E. (See Bohan, Patrick J., assignor.)
- Frazier, Joseph C. W., Baltimore, Md., A. B. Lamb, Washington, D. C., and D. R. Merrill, Newark, N. J. Treating gases. No. 1,418,246; May 30.
- Frazer, Perry D., Ridgewood, N. J. Transfer reel. No. 1,422,954; July 18.
- Frazer, William H., Ravenna, Ohio, assignor to The Stuko-Steel Company, Youngstown, Ohio. Building and means therefor. No. 1,433,998; Oct. 31.
- Frazier, Charles F., South Greenfield, Mo. Branding iron. No. 1,428,280; Sept. 5.
- Frazier, George E., assignor of two-fifths to R. L. Fell, Muncie, Ind. Safety stop for trains. No. 1,410,744; Mar. 28.
- Frazier, George E., assignor of one-half to C. C. Cook, Muncie, Ind. Fruit-jar-capping machine. No. 1,426,056; Aug. 15.
- Frazier, Homer G., La Fayette, Ind. Auto dump body. No. 1,428,368; Sept. 5.
- Frazier-Sheal Company, The. (See Hartwick, L. M., and Brown, assignors.)
- Frazier, William H., Chicago, and W. J. O'Neill, Downers Grove, Ill. Floor covering. No. 1,425,847; Aug. 15.
- Frear, Austin O., Chicago, Ill. Hairpin. No. 1,438,755; Dec. 12.
- Frease, Phineas N., Bothell, Wash. Tool holder. No. 1,429,500; Sept. 19.
- Freay, Charles F., Kennedy, N. Y. Drop-saw machine. No. 1,436,758; Nov. 28.
- Freborg, Charles, Kankakee, Ill., assignor to Price & Teeple Piano Company. Player-piano construction. No. 1,404,285; Jan. 24.
- Frech, William F., assignor to Cary Manufacturing Co., Brooklyn, N. Y. Thimble for coiled box strapping. No. 1,433,267; Oct. 24.
- Frechette, Alfred A., Trail, British Columbia, Canada. Snap hook. No. 1,436,390; Nov. 21.
- Fredak, Joseph F., Detroit, Mich. Curtain-pole support. No. 1,413,846; Apr. 25.
- Fredd, Oscar M., Hancock, Mich. Method and tire-vulcanizing apparatus. No. 1,428,428; Sept. 5.
- Fredel, Michael M., and W. Bosanko, Brooklyn, N. Y. Agitator. No. 1,415,830; May 9.
- Frederick, Alvah B. (See Bindschedler, Theodore S., assignor.)
- Frederick, Bernhard O., Hibbing, Minn. Vehicle brake. No. 1,423,846; July 25.
- Frederick, Charles W., and D. H. Stewart, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic apparatus. No. 1,411,689; Apr. 4.
- Frederick, Frank M., Fairbury, Nebr. Release valve for air-brake systems. No. 1,439,361; Dec. 19.
- Frederick, Harry, Allentown, Pa. Handle for lifting jacks. No. 1,432,846; Oct. 24.
- Frederick, Jacob F., Chicago, Ill. Attachment for printing presses. No. 1,414,871; May 2.
- Frederick, Jacob F., Chicago, Ill. Attachment for printing presses. No. 1,414,872; May 2.
- Frederick, Louis T., Valparaiso, Ind. Mica building machine. No. 1,411,690; Apr. 4.
- Frederick, Louis T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Streamlined strut. No. 1,403,310; Jan. 10.
- Frederick, Louis T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Propeller. No. 1,406,364; Feb. 14.
- Frederick, Louis T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Propeller. No. 1,406,365; Feb. 14.
- Frederick, Louis T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Method of and apparatus for impregnating material. No. 1,414,462; May 2.
- Frederick, Louis T., Chicago, Ill., assignor to Westinghouse Electric & Manufacturing Company. Covering material and forming the same. No. 1,430,541; Oct. 3.
- Frederick, Louis T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Adjustable-pitch propeller. No. 1,437,099; Nov. 28.
- Frederick, William H., Cristobal, Canal Zone. Combination cigarette and match case. No. 1,417,160; May 23.
- Fredericks, Enoch M., assignor to Joy Tooth Company, Chicago, Ill. Artificial tooth crown and securing means therefor. No. 1,418,070; May 30.
- Fredericks, Harry A., Port Angeles, Wash. Infant's merry-go-round. No. 1,415,831; May 9.
- Fredericks, Henry, et al. (See Mason, William S., assignor.)
- Fredericks, Maurice B., Waltham, Mass., assignor, by mesne assignments, to J. L. Levy, New York, N. Y. Picker for looms. No. 1,416,274; May 16.
- Fredericksen, John C., Miller, Ind. Internal-combustion engine. No. 1,406,839; Feb. 14.
- Frederickson, David T., and E. L. Faulkner, Guthrie, Okla. Metal-bending machine. No. 1,435,112; Nov. 7.
- Frederics, E. Inc. (See Frederics, Ernest O., assignor.)
- Frederics, Ernest O., New York, N. Y. Hair-waving means. No. 1,425,956; Aug. 15.
- Frederics, Ernest O., assignor to E. Frederics, Inc., New York, N. Y. Shield. No. 1,426,373; Aug. 22.
- Frederics, Ernest O., assignor to E. Frederics, Inc., New York, N. Y. Electric heater. No. 1,426,562; Aug. 22.
- Frederiksen, Fred, Port Alberni, British Columbia, Canada. Laying paper or roofing materials on flat or sloping roofs. No. 1,438,302; Dec. 12.
- Fredette, Alva A. (See Comeau, M. P., and Fredette, assignors.)
- Fredrich, Joseph H., and C. Bock, San Francisco, Calif. Toy vehicle. No. 1,426,171; Aug. 15.
- Fredrick, Hugo E., assignor of twenty-three and thirty-four one-hundredths per cent to W. H. Bissell, twenty-three and thirty-three one-hundredths per cent to F. S. Sinnicks, and twenty-three and thirty-three one-hundredths per cent to G. J. Henry, San Francisco, Calif. Ore concentration. No. 1,438,435; Dec. 12.
- Fredrick, Hugo E. J., assignor of twenty-three and thirty-four one-hundredths per cent to W. H. Bissell, twenty-three and thirty-three one-hundredths per cent to F. S. Sinnicks, and twenty-three and thirty-three one-hundredths per cent to G. J. Henry, San Francisco, Calif. Flotation process of concentrating sulphide ores. No. 1,438,436; Dec. 12.
- Fredrickson, Christian, Rice Lake, Wis. Conveying apparatus. No. 1,404,591; Jan. 24.
- Fredriksen, William, and E. Pederson, Denver, Colo. Scraper for floor brushes. No. 1,402,485; Jan. 3.
- Fredrikson, Walter O., et al., trustees. (See McArthur, Robert C., assignor.)
- Fredriksstad Elektrokemiske Fabriker A/S. (See Langhard, Johann K., assignor.)
- Free, Edward E., Carmel, Calif. Fertilizer and its use. No. 1,409,126; Mar. 7.
- Free, John W., Woodlawn, assignor to Jones & Laughlin Steel Company, Pittsburgh, Pa. Tin pot. No. 1,415,166; May 9.
- Free, Leonard. (See Elliott, Edward R., assignor.)
- Free Sewing Machine Company. (See Durkee, Dwight M., assignor.)
- Freebe, Benjamin F., assignor of one-half to J. Matta, Brownsville, Pa. Phonographic warning device. No. 1,417,983; May 20.
- Freeborn, James E. (See Richards, G., Burt, and Freeborn.)
- Freed, Edward G., assignor to The Computing Scale Company, Dayton, Ohio. Meat-slicing machine. No. 1,419,552; June 13.
- Freed, Eva S., et al. (See Leitch, James T., assignor.)
- Freed, Rose, Philadelphia, Pa. Corset. No. 1,413,578; Apr. 25.
- Freed, Samuel E., East Palestine, Ohio. Nonrefillable bottle. No. 1,424,892; Aug. 8.
- Freed, Tilghman A., et al. (See Leitch, James T., assignor.)
- Freedlander, Abraham L., and W. G. Goodwin, assignors to The Dayton Rubber Manufacturing Company, Dayton, Ohio. Rubber tire. No. 1,417,051; May 23.
- Freedline, David, Brooklyn, N. Y. Hat stretcher and shaver. No. 1,426,285; Aug. 15.
- Freedman, Abraham A., assignor of one-half to S. S. Soloway, Chicago, Ill. Sanitary telephone mouthpiece. No. 1,416,275; May 16.
- Freedman, Benjamin H., New York, N. Y. Paper fastener. No. 1,423,520; July 25.
- Freedman, Paul, London, and E. Greetham, Hull, England. Extraction of metals from their compounds. No. 1,433,541; Oct. 31.
- Freeland, Anton D. (See Ekiss, D. E., Freeland, A. D., L. A., and M. A.)
- Freeland, Lubin A. (See Ekiss, D. E., Freeland, A. D., L. A., and M. A.)
- Freeland, Merlin A. (See Ekiss, D. E., Freeland, A. D., L. A., and M. A.)
- Freeman, Albert M., special agent. (See Potter, Molton D.)
- Freeman, Arthur A., Oakland, Calif. Combined tire gauge and filling valve. No. 1,420,997; June 27.
- Freeman, Charles F., et al., trustees. (See Freeman, Louis G., assignor.)
- Freeman, Dudley, Roxbury, Mass. Garment. No. 1,421,446; July 4.
- Freeman, Frank L., Omaha, Nebr. Front-wheel drive mechanism for motor vehicles. No. 1,416,010; May 16.
- Freeman, Harry S., assignor to Square D Company, Detroit, Mich. Electrical switch and interlocking casing. No. 1,412,466; Apr. 11.
- Freeman, J. W. (See Cardin, William O., assignor.)
- Freeman, James I., and L. J. Peterson, Modesto, Calif. Pneumatic-tire casing. No. 1,407,401; Feb. 21.
- Freeman, John M., Hickory, N. C. Filling-grate-clearing means for looms. No. 1,406,840; Feb. 14.
- Freeman, Louis G., et al., trustees. (See Freeman, Louis G., assignor.)
- Freeman, Louis G., assignor to L. G. Freeman and C. F. Freeman, trustees, Cincinnati, Ohio. Belt buffing or scouring machine. No. 1,434,334; Oct. 31.
- Freeman, Louis G., assignor to L. G. Freeman and C. F. Freeman, Cincinnati, Ohio, trustees. Wedge splitting and scarfing machine. No. 1,436,953; Nov. 28.
- Freeman, Marshall J., East Orange, N. J. Spark intensifier. No. 1,423,204; July 18.
- Freeman, Peter, and I. F. Straker, Chattanooga, Tenn. Reinforcement for brake shoes. No. 1,403,855; Jan. 17.
- Freeman, Ray, Perrine, Fla. Chair for rail joints. No. 1,427,948; Sept. 5.

Alphabetical list of patentees—Continued.

- Freeman, Spencer, and R. O'Toole, Hammersmith, London, England. Machine for extruding plastic materials. No. 1,440,007; Dec. 26.
- Freeman, Wallace E. (See Townsend, Joseph M., assignor.)
- Freeman, William F., and V. I. Cilley, Grand Rapids, Mich. Direction indicator. No. 1,422,955; July 18.
- Freer, Charles H., Los Angeles, Calif. Automatic safety check valve. No. 1,437,136; Nov. 28.
- Freer, Henry H., Leicester, England. Cutting machine. No. 1,419,037; June 6.
- Freer, Phelps M., Detroit, Mich. Engine compression regulator. No. 1,428,772; Sept. 12.
- Freese, Hugo, Geneseo, N. Y. Vehicle running and steering gear. No. 1,413,464; Apr. 18.
- Freese, Ira H., Clarksburg, assignor to Hazel-Atlas Glass Company, Wheeling, W. Va. Apparatus for annealing glassware. No. 1,439,305; Dec. 19.
- Freeze, John A., Sayreville, N. J. Chair attachment for beds. No. 1,419,245; June 13.
- Freeze, John A., Sayreville, N. J. Method of and apparatus for making and sewing star forms on fabrics. No. 1,426,172; Aug. 15.
- Freeze, Joseph C., Kansas City, Kans. Centrifugal diving apparatus. No. 1,405,996; Feb. 7.
- Freeze, William J., Newark, Ark. Chute. No. 1,439,541; Dec. 19.
- Freiburger, Earl J. (See Freiburger, Joseph J. and E. J.)
- Freiburger, Joseph J. and E. J., Fort Wayne, Ind. Guard for automobile crank cases. No. 1,412,049; Apr. 11.
- Freid, Charles W., Good Thunder, Minn. Nonrefillable bottle. No. 1,425,957; Aug. 15.
- Freihofer, Charles A., and J. F. Schmidt, Philadelphia, Pa. Pan-greasing machine. No. 1,404,592; Jan. 24.
- Freile, Bruce, Bogota, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone switchboard apparatus. No. 1,423,930; July 25.
- Frelloer, Julius, New York, N. Y. Internal-combustion engine. No. 1,437,051; Nov. 28.
- Fremersdorf, William R., Hayward, Calif. Hand tractor. No. 1,435,222; Nov. 14.
- French, Alfred W. (See Faherty, Michael W., assignor.)
- French Battery & Carbon Co. (See Balderston, William, assignor.)
- French Battery & Carbon Co. (See Graves, John, assignor.)
- French Battery & Carbon Co. (See Ruhoff, Otto E., assignor.)
- French, Charles A., Madison, Wis. Door stop and holder. No. 1,416,276; May 16.
- French, Charles A., Chicago, Ill., assignor to International Harvester Company. Refractory material and making the same. No. 1,418,372; June 6.
- French, Charles M., Brooklyn, N. Y. Hinge. No. 1,427,800; Sept. 5.
- French, Edward H., Columbus, Ohio. Making dry soluble lime-sulphur composition. No. 1,423,605; July 25.
- French, Edward H., J. R. Withrow, Columbus, Ohio, and A. O. Allen, Reading, Pa., assignors to The Glidden Company, Cleveland, Ohio. Soluble lime-sulphur composition. No. 1,437,838; Dec. 5.
- French, Frank H., Preston, Iowa. Draft means for tandem disk harrows. No. 1,436,391; Nov. 21.
- French, Frederick W., Fruitvale, Calif. Antiskidding device. No. 1,412,929; Apr. 18.
- French, George M., and W. B. Pavey, assignors to Economy Engineering Company, Chicago, Ill. Apparatus for lowering articles. No. 1,411,337; Apr. 4.
- French, Harry F. (See Benner, R. C., and French.)
- French, Harry F., Fremont, Ohio, assignor to National Carbon Company Inc. Dry cell. No. 1,402,224; Jan. 3.
- French, Harry F., Fremont, Ohio, assignor to National Carbon Company, Inc. Electric battery. No. 1,416,704; May 23.
- French, Harry L., assignor to Badger Manufacturing Corporation, Milwaukee, Wis. Automobile bumper. No. 1,404,517; Jan. 24.
- French, James C., assignor to F. C. Austin, Chicago, Ill. Feeding and conveying apparatus. No. 1,409,695; Mar. 14.
- French, James C., assignor to F. C. Austin, Chicago, Ill. Portable mixing plant. No. 1,417,663; May 30.
- French, James C., assignor to F. C. Austin, Chicago, Ill. Swinging-scoop excavator. No. 1,430,542; Oct. 3.
- French, James C., Chicago, Ill., assignor, by mesne assignments, to F. C. Austin Machinery Company. Bucket cleaner. No. 1,434,601; Nov. 7.
- French, James C., Chicago, Ill., assignor, by mesne assignments, to F. C. Austin Machinery Company. Elevator feeding device. No. 1,436,029; Nov. 21.
- French, James R., assignor of one-fourth to J. P. Gannon, Louisville, Ky. Piston ring. No. 1,435,223; Nov. 14.
- French, John H., et al. (See Gore, William M., assignor.)
- French, Sherman T., assignor of one-half to M. D. Wade, Indianapolis, Ind. Combined joint and hinge. No. 1,417,984; May 30.
- French, Thomas, Guelph, Ontario, Canada. Apparatus for making iron oxides. No. 1,438,372; Dec. 12.
- French, William B., Guthrie, Ky. Means for reinforcing refractory material. No. 1,440,218; Dec. 26.
- French & Hecht. (See Einfeldt, Ernest E., assignor.)
- French & Hecht. (See Hecht, Joseph L., assignor.)
- Frenne, Nils G. H., assignor to Aktiebolaget Vaporackumulator, Stockholm, Sweden. Locomotive shed or the like. No. 1,419,964; June 20.
- Freres, John G. (See Fetzer, W., Freres, and Elliott.)
- Freret, Arthur L., Ensley, Ala. Safety switch. No. 1,409,843; Mar. 14.
- Freret, Arthur L., Ensley, Ala. Snap-switch mechanism. No. 1,428,542; Sept. 12.
- Frichs, D. A., et al. (See Burlingame, Albert C., assignor.)
- Fresses Patent Eisenschutz und Schraubenwellenbekleidung für Schiffe G. m. b. H. (See Reck, Eugen, assignor.)
- Freter, Nathan F., Cleveland, Ohio. Lathe. No. 1,408,997; Mar. 7.
- Fretz, Samuel S., Sr., Philadelphia, Pa. Connection of umbrella ribs and stretchers. No. 1,405,911; Feb. 7.
- Fretz, Samuel S., sr., Philadelphia, Pa. Self-opening umbrella. No. 1,425,761; Aug. 15.
- Fretz, Samuel S., sr., Philadelphia, Pa. Cap for the tips of umbrella ribs. No. 1,431,446; Oct. 10.
- Freuler, Herbert F., and C. L. Morrill, Berkeley, Calif., assignors to Interstate Fibre Company, Ltd., Honolulu, Hawaii. Decortivating machine. No. 1,427,201; Aug. 29.
- Freund Electric Manufacturing Company. (See Freund, Rudolf, assignor.)
- Freund, Jacob, Chicago, Ill. Engraving machine. No. 1,434,602; Nov. 7.
- Freund, Louis L., Spokane, Wash. Door latch. No. 1,413,979; Apr. 25.
- Freund, Rudolf, Irvington, N. J., assignor to Freund Electric Manufacturing Company. Knife-blade switch. No. 1,416,185; May 16.
- Frey, Adolph J., Guide Rock, Nebr. Axle skein. No. 1,436,493; Nov. 21.
- Frey, Alfred, Fontainebleau, assignor to E. Favre, Paris, France. Aeroplane and flying machine with flapping wings. No. 1,431,646; Oct. 10.
- Frey, Ellsworth, Springfield, assignor to Frey Variable Speed Gear Company, Holyoke, Mass. Variable-speed transmission. No. 1,431,647; Oct. 10.
- Frey, George W., Ripon, assignor of one-third to W. A. Merigold, Jr., Green Lake, and one-third to R. E. Reed, Ripon, Wis. Golf stand. No. 1,408,876; Mar. 7.
- Frey, J. B. Company, Inc. (See Collamer, Eugene E. and G. R., assignors.)
- Frey Variable Speed Gear Company. (See Frey, Ellsworth, assignor.)
- Freyberg, Joseph, and L. F. Wubbolding, Newport, Ky., assignors to The J. Baum Safe & Lock Company, Cincinnati, Ohio. Door and hinge construction. No. 1,416,812; May 23.
- Freyberg, Joseph, and L. F. Wubbolding, Newport, Ky., assignors to The J. Baum Safe & Lock Company, Cincinnati, Ohio. Safety-deposit construction. No. 1,421,770; July 4.
- Freyberg, Joseph, and L. F. Wubbolding, Newport, Ky., assignors to The J. Baum Safe & Lock Company, Cincinnati, Ohio. Vault front and door construction. No. 1,421,771; July 4.
- Frey, Brassert & Company. (See Fisk, Albert E., assignor.)
- Frey, Brassert & Company. (See Willcox, Frederick H., assignor.)
- Freysinger, John B., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Sheet-metal tumbler lock. No. 1,431,735; Oct. 10.
- Freysinger, John B., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Tumbler lock. No. 1,432,326; Oct. 17.
- Freysinger, John B., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,433,361; Oct. 24.
- Freysinger, John B., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,433,362; Oct. 24.
- Freysinger, John B., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,433,363; Oct. 24.
- Freysinger, John B., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,433,364; Oct. 24.
- Freysinger, John B., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Cylinder lock. No. 1,434,110; Oct. 31.
- Freysinger, John B., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Tumbler lock. No. 1,434,947; Nov. 7.
- Freyss, Charles, et al. (See Pfeiffer, Stephan, assignor.)
- Friant, Emile, Paris, France. Self-sealing reservoir. No. 1,436,985; Nov. 28.
- Friberg, Alger R., Appleton, Wis. Neck yoke. No. 1,430,071; Sept. 26.
- Fric, José, Pigüé, Buenos Aires, Argentina. Self-propelled heading and thrashing harvester. No. 1,405,774; Feb. 7.
- Frick, Frederick F. (See Laist, F., Frick, Klepetko, and Davidson.)
- Frick, Orlando C., assignor to Smalley Manufacturing Company, Manitowoc, Wis. Shear-bar anchor for feed cutters. No. 1,404,518; Jan. 24.
- Frick, Rudolph, Burlington, Iowa. Automatic mail-pouch catcher. No. 1,420,374; June 20.

- Frick, William, Detroit, Mich. Swaging machine. No. 1,430,974; Oct. 3.
- Frick & Lindsay Company. (See Hay, Roland L., assignor.)
- Fricke, William J., Paragould, Ark. Resilient wheel. No. 1,431,297; Oct. 10.
- Fricke, Anthony, Cleveland, Ohio. Street-flushing apparatus. No. 1,405,831; Feb. 7.
- Fricke, Anthony, Cleveland, Ohio. Sand and gravel spreader. No. 1,430,975; Oct. 3.
- Fricke, Anthony, Cleveland, Ohio. Bituminous distributor. No. 1,433,713; Oct. 31.
- Fricke, Carl J., New York, N. Y. Extensible table top. No. 1,413,111; Apr. 18.
- Friderich, Louis, Paris, France, assignor to Southern Power Company, New York, N. Y. Electric furnace. No. 1,433,883; Oct. 31.
- Fried, Krupp Aktiengesellschaft. (See Akemann, Walther, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Barth, Karl, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Bartholdy, Max, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Böhle, Karl, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Bruhn, Gustav A., assignor.)
- Fried, Krupp Aktiengesellschaft. (See Drewitz, Walter, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Eckertz, Heinrich, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Finckh, F., and Krüger, assignors.)
- Fried, Krupp Aktiengesellschaft. (See Finckh, Fritz, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Hauptmeyer, Friedrich, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Heilemann, Walter, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Heyn, H., and Zimmermann, assignors.)
- Fried, Krupp Aktiengesellschaft. (See Hildebrandt, Ferdinand, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Hort, Hermann, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Immand, Gerhard, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Just, Heinrich, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Kleber, Gustav, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Kolbe, W., and Pritzen, assignors.)
- Fried, Krupp Aktiengesellschaft. (See Krüger, Paul, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Lauer, Karl, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Lehmann, Karl A., assignor.)
- Fried, Krupp Aktiengesellschaft. (See Lorenz, Rudolf, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Martin, Friedrich, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Schön, Ludwig, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Schraepfer, Curt, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Schröder, Hermann, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Schürmann, Richard, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Schütz, Carl, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Siepman, A., and Radameyer, assignors.)
- Fried, Krupp Aktiengesellschaft. (See Sperling, Martin, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Stock, Friedrich, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Sundhausen, Hermann, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Thun, Hermann, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Vollmer, John, assignor.)
- Fried, Krupp Aktiengesellschaft. Germaniawerft. (See assignor.)
- Fried, Krupp Aktiengesellschaft. (See Winter, W., and Immand, assignors.)
- Fried, Krupp Aktiengesellschaft. (See Wissinger, Max, assignor.)
- Fried, Krupp Aktiengesellschaft. Germaniawerft. (See Alt, Otto, assignor.)
- Fried, Krupp Aktiengesellschaft. Germaniawerft. (See Grunwald, Carl, assignor.)
- Fried, Krupp Aktiengesellschaft. Germaniawerft. (See Herkt, Ernst, assignor.)
- Fried, Krupp Aktiengesellschaft. Germaniawerft. (See Kübler, Gottfried, assignor.)
- Fried, Krupp Aktiengesellschaft. Germaniawerft. (See Techel, Hans, assignor.)
- Fried, Krupp Aktiengesellschaft. Germaniawerft. (See Von Sanden, K., and Teckel, assignors.)
- Fried, Louis, Brooklyn, N. Y. Thief signal. No. 1,438,819; Dec. 12.
- Friede, Julian S., assignor to Moon Motor Car Company, St. Louis, Mo. Cushion. No. 1,420,990; June 27.
- Friederich, Ernst, Berlin, Germany, assignor to General Electric Company. Inclosed-arc lamp and starting the same. No. 1,422,553; July 11.
- Friederich, Walter, Troisdorf, near Cologne, Germany. Manufacture of detonating caps for mining and military purposes. No. 1,424,462; Aug. 1.
- Friedland, Jacob M., New York, N. Y. Revolving door. No. 1,417,372; May 23.
- Friedlander, Arnold, assignor to Phoenix Knitting Works, Milwaukee, Wis. Twisting and winding machine. No. 1,425,084; Aug. 8.
- Friedlander, Thomas A., Newark, N. J. Automobile seat. No. 1,405,108; Jan. 31.
- Friedman, Henry J., Cleveland Heights, Ohio. Dental connection. No. 1,413,847; Apr. 25.
- Friedman, Joseph B., San Francisco, Calif. Fountain pen. No. 1,412,930; Apr. 18.
- Friedman, Loues, Muncie, Ind., and D. Wallace, Tulsa, Okla. Flowing device for wells. No. 1,414,402; May 2.
- Friedman, Loues, Muncie, Ind., and D. Wallace, Tulsa, Okla. Collapsible expansion gasket. No. 1,427,099; Aug. 29.
- Friedman, Max, et al. (See Pietrafesa, Joseph, assignor.)
- Friedman, Max, Baltimore, Md. Belt replacer. No. 1,438,992; Dec. 19.
- Friedman, Sam, Atlanta, Ga. Pressing machine. No. 1,429,865; Sept. 19.
- Friedman, Samuel, and M. Ohlbaum, New York, N. Y. Fiber comb. No. 1,405,576; Feb. 7.
- Friedmann, Firm of Alex. (See Blauhorn, Emanuel, assignor.)
- Friedrich, Edward, San Antonio, Tex. Butcher's ice box. No. 1,420,088; June 20.
- Friedrich, Karl, Breslau, Germany. Producing a cold glaze for building materials, in particular cement. No. 1,402,412; Jan. 3.
- Friedrich, Waldemar, Karlsruhe, Baden, Germany, assignor to the Firm of Dr. Ing. V. C. A. Schneider, Frankfurt-on-the-Main. Journal box. No. 1,436,872; Nov. 28.
- Friedrichs, Gottfried L. A., New York, N. Y. Apparatus for preserving perishable products. No. 1,405,775; Feb. 7.
- Fries, Frank W. and W. J., Carlinville, Ill. Coupling for mining cars. No. 1,439,158; Dec. 19.
- Fries, John L., et al. (See Thomas, Martin E., assignor.)
- Fries, John R., and I. F. Rock, Waynesboro, Pa. Tire spreader. No. 1,435,833; Nov. 14.
- Fries, Rudolf, Berlin-Schöneberg, Germany. Typewriting machine. No. 1,422,433; July 11.
- Fries, Will E., et al. (See Thomas, Martin E., assignor.)
- Fries, William J. (See Fries, Frank W. and W. J.)
- Friesen, Peter F., Hillsboro, Kans. Coin stacker. No. 1,407,140; Feb. 21.
- Friess, George, and R. Nass, Seattle, Wash. Trap. No. 1,439,809; Dec. 26.
- Frigid Fluid Company. (See Maechler, Walter, assignor.)
- Frink, Gerald, Seattle, Wash. Duplex two-speed aerial yarder. No. 1,404,358; Jan. 24.
- Frink, Gerald, Seattle, Wash. Cableway. No. 1,438,756; Dec. 12.
- Frink, I. P., Inc. (See Spencer, William H., assignor.)
- Frins, Maximilian C., assignor to International Motor Company, New York, N. Y. Universal joint. No. 1,403,856; Jan. 17.
- Frins, Maximilian C., assignor to International Motor Company, New York, N. Y. Change-speed gearing. No. 1,409,289; Mar. 14.
- Frins, Maximilian C., assignor to International Motor Company, New York, N. Y. Universal joint. No. 1,413,848; Apr. 25.
- Frinzi, Antonio, Easton, Pa. Switch plate. No. 1,421,447; July 4.
- Frisbie, William J., assignor to Justrite Manufacturing Company, Chicago, Ill. Acetylene lamp. No. 1,407,141; Feb. 21.
- Frisbie, William J., assignor to Justrite Manufacturing Company, Chicago, Ill. Spark-producing mechanism. No. 1,407,142; Feb. 21.
- Frisbie, William J., assignor to Justrite Manufacturing Company, Chicago, Ill. Spark-producing mechanism. No. 1,407,143; Feb. 21.
- Frisbie, William J., assignor to Justrite Manufacturing Company, Chicago, Ill. Fuel-feed apparatus. No. 1,415,026; May 9.
- Frisbie, William J., assignor to Justrite Manufacturing Company, Chicago, Ill. Acetylene lamp. No. 1,424,463; Aug. 1.
- Frisbie, William J., assignor to Justrite Manufacturing Company, Chicago, Ill. Acetylene lamp. No. 1,424,464; Aug. 1.
- Frisbie, William J., assignor to Justrite Manufacturing Company, Chicago, Ill. Oil cup. No. 1,429,418; Sept. 19.
- Frisbie, William J., assignor to Justrite Manufacturing Company, Chicago, Ill. Spark-producing mechanism. No. 1,429,419; Sept. 19.
- Frisbie, William J., assignor to Justrite Manufacturing Company, Chicago, Ill. Spark-producing mechanism. No. 1,429,420; Sept. 19.

Alphabetical list of patentees—Continued.

- Frisbie, William J., assignor to Justrite Manufacturing Company, Chicago, Ill. Acetylene lamp. No. 1,431,447; Oct. 10.
- Frisch, Alexander. (See Amoroso, Silvio, assignor.)
- Frisk, Enos C., Somerset, Wis. Aerial bomb. No. 1,406,633; Feb. 14.
- Frist, Robert P., Long Beach, Calif. Stemmer for deciduous fruit. No. 1,403,399; Jan. 10.
- Fritz, George E., Indianapolis, Ind. Operating tool. No. 1,431,389; Oct. 10.
- Fritchle, Oliver P., Denver, Colo. Battery. No. 1,415,541; May 9.
- Fritgen, Peter J., Randolph, Nebr. Hinge. No. 1,439,542; Dec. 19.
- Frith, Herbert R., Auckland, New Zealand. Pump bucket or piston. No. 1,438,910; Dec. 12.
- Fritsch, Edward J., and R. W. Nazel, Philadelphia, Pa.; said Fritsch assignor to said Nazel. Fluid-power hammer. No. 1,429,421; Sept. 19.
- Fritsch, George A., Renfrew, Ontario, Canada. Button threader. No. 1,436,030; Nov. 21.
- Fritsche, John, Philadelphia, Pa. Liquid-vending machine. No. 1,421,680; July 4.
- Fritsche, John, and J. C. Hadik, Philadelphia, Pa.; said Hadik assignor to said Fritsche. Vending machine. No. 1,437,970; Dec. 5.
- Fritsche, Joseph, Puente, Calif. Power-lift cultivator. No. 1,403,400; Jan. 10.
- Fritts, Herbert L., Detroit, Mich. Hydraulic valve. No. 1,428,688; Sept. 12.
- Fritts, James C., Scranton, Pa. Lock for sliding doors. No. 1,422,846; July 18.
- Fritz, Carl M., Kokomo, Ind. Windshield. No. 1,434,380; Nov. 7.
- Fritz Gefaug. (See Horat, Martin, assignor.)
- Fritz, Jacob S., Zanesville, Ohio. Tire patch. No. 1,419,453; June 13.
- Fritz, Johan P., Portland, Oreg. Portable saw track. No. 1,438,703; Dec. 12.
- Fritz, Lewis, Chicago, Ill. Picture-frame stand. No. 1,414,351; May 2.
- Fritz, Lewis, Chicago, Ill. Picture frame. No. 1,421,448; July 4.
- Fritz, Louis. (See Sommers, W., and Fritz.)
- Fritz, Louis, Memphis, Tenn. Woodworking machinery. No. 1,421,204; June 27.
- Fritz, Peter C., Philadelphia, Pa. Washing machine. No. 1,435,560; Nov. 14.
- Fritz, Philip, Grand Rapids, Mich. Ice-cream cabinet. No. 1,435,286; Nov. 14.
- Fritz, William G., Clear Lake, Minn. Pneumatic vehicle-body support and air control. No. 1,426,057; Aug. 15.
- Fritz, William G., Clear Lake, Minn. Shock absorber. No. 1,426,058; Aug. 15.
- Fritze, William. (See Wilber, N., and Fritze.)
- Fritzen, Johannes. (See Kolbe, W., and Fritzen.)
- Fritzsche, Bernhard, Cincinnati, Ohio. Phonograph sound box. No. 1,437,799; Dec. 5.
- Fritzsche, Alfred L. (See Allan, Charles D., assignor.)
- Fritz-Williams, Medora A., Oakland, Calif., assignor to M. Crosse, New York, N. Y. Food. No. 1,402,347; Jan. 3.
- Friz, Emil, Goppingen, Germany. Toy steam engine. No. 1,413,218; Apr. 18.
- Froehlich, David, Brooklyn, N. Y. Awning box. No. 1,418,247; May 30.
- Froehlich, Morris, Chicago, Ill. Oven. No. 1,426,059; Aug. 15.
- Froehlingsdorf, Anthony A., St. Paul, Minn. Check-stub holder. No. 1,414,269; Apr. 25.
- Froelich, George, Two Rivers, Wis. Extension table. No. 1,435,597; Nov. 14.
- Froelich, George, Two Rivers, Wis. Table extension. No. 1,435,598; Nov. 14.
- Frog Switch and Manufacturing Company. (See Ackermann, Clemens W., assignor.)
- Frohne, Albin, assignor to American Flyer Manufacturing Co., Chicago, Ill. Connector for toy electric railways. No. 1,402,756; Jan. 10.
- Frohne, Albin, assignor to American Flyer Manufacturing Company, Chicago, Ill. Electric reversing switch and the like. No. 1,402,757; Jan. 10.
- Frohring, William O., Cleveland, Ohio, and J. J. Mojonier, Oak Park, assignors, by mesne assignments, to Mojonier Bros. Co., Chicago, Ill. Bacteriological incubator. No. 1,432,176; Oct. 17.
- Frolaset Corset Company. (See Colley, Harry A., assignor.)
- Frolaset Corset Company. (See Siegel, Joseph, assignor.)
- From, James W., Shelby, Nebr. Corn harvester. No. 1,411,009; Mar. 28.
- Froman, Joseph D., Vevay, Ind. Amusement device. No. 1,422,688; July 11.
- Froman, Oscar, and W. A. Wilmoth, Edna, Kans. Box-car door. No. 1,424,812; Aug. 8.
- Fromhart, William H., Golden, Colo. Headrest for automobile mechanics. No. 1,431,110; Oct. 3.
- Fromkess, Herman, New York, N. Y. Paper weight. No. 1,413,465; Apr. 18.
- Fromm, Edward F., assignor of one-half to W. Dunning, Iowa Falls, Iowa. Spring structure. No. 1,429,279; Sept. 19.
- Frommeyer, Frank, assignor to Wollo Ignition Products Company, St. Louis, Mo. Spark plug. No. 1,437,100; Nov. 28.
- Frost, Charles E., Paterson, N. J. Thread guide. No. 1,438,479; Dec. 12.
- Frost, Clinton E., East Cleveland, assignor to The Cleveland Osborn Manufacturing Company, Cleveland, Ohio. Helical brush. No. 1,439,159; Dec. 19.
- Frost, Elmer F., Crystal, Mich. Grinding machine. No. 1,436,309; Nov. 21.
- Frost, Ernest R., Chicago, Ill. Cord support for electric lights. No. 1,424,999; Aug. 8.
- Frost, George, Company. (See Moore, Roswell A., assignor.)
- Frost, Harwood, Chicago, Ill. Freight escalator. No. 1,433,884; Oct. 31.
- Frost, Homer E., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Electromagnetic device. No. 1,439,543; Dec. 19.
- Frost, Ivan J., Lynn, Mass., assignor of one-half to M. Wilder, Manchester, N. H. Garbage receiver. No. 1,436,494; Nov. 21.
- Frost, Jesse M. (See Souders, H. V., and Frost.)
- Frost, John A., Dorchester, Mass., assignor of one-half to H. D. Chadwick, Concord, N. H. Fisherman's bob. No. 1,434,335; Oct. 31.
- Frost Manufacturing Company. (See Theleen, Oscar H., assignor.)
- Frost, Ralph I., Augusta, Kans., assignor to The Geo. W. Brown & Son State Bank, trustee, Augusta, Kans. Valve mechanism. No. 1,411,717; Apr. 4.
- Frost, Ralph I., assignor to The Geo. W. Brown & Son State Bank, trustee, Augusta, Kans. Bearing lubricator. No. 1,425,000; Aug. 8.
- Frost, Robert J., Clayton, Victoria, Australia. Electric water heater. No. 1,406,181; Feb. 14.
- Frost, Sydney G., Twickenham, England. Signaling unit for wireless telegraphy. No. 1,424,294; Aug. 1.
- Frost, Warren H., Los Angeles, Calif., assignor to Wilkes-Martin-Wilkes Company, New York, N. Y. Making lampblack. No. 1,438,032; Dec. 5.
- Frost, William K., Hollywood, Calif. Nail. No. 1,417,818; May 30.
- Frostead, John C., Duluth, Minn. Lantern. No. 1,424,293; Aug. 1.
- Frothingham, Daniel D., Salem, and R. U. Sawyer, Winchester, Mass. Coating fabrics. No. 1,405,198; Jan. 31.
- Frothingham, George H., Company. (See Prescott, Arthur T., assignor.)
- Froussard, Albert F., St. Louis, Mo. Piston ring. No. 1,416,011; May 16.
- Frozeth, Ernst E., Minneapolis, Minn. Stringed instrument. No. 1,426,852; Aug. 22.
- Fry, Arthur E., Covedale, Ky. Clamp for cylinder-outlet hose. No. 1,409,696; Mar. 14.
- Fry, Conrad D. (See Mansell, H. J., and Fry.)
- Fry, Frank B., Newark, N. J., assignor to The H. A. Wilson Company. Platinum alloy. No. 1,407,525; Feb. 21.
- Fry, George, Chicago, Ill. Steam cylinder for cloth-sponging machines. No. 1,436,705; Nov. 28.
- Fry, Isaiah H., and E. Hollenbach, Philadelphia, Pa. Bearing for vehicle wheels. No. 1,414,270; Apr. 25.
- Fry, John, Portland, Oreg. Traffic signal. No. 1,405,997; Feb. 7.
- Fry, Jesse H., Rochester, Pa. Plate for dining tables. No. 1,440,070; Dec. 26.
- Fry, Lawford H. (See Cole, A. G., Foster, and Fry.)
- Fry, Walter L., Detroit, Mich., assignor, by mesne assignments, to Edward G. Budd Manufacturing Company. Automobile body and making same. No. 1,405,680; Feb. 7.
- Fry, William P., Marble Falls, Tex. Milk or cream cabinet. No. 1,423,714; July 25.
- Frye, William R., New Florence, Mo. Trapping device. No. 1,431,648; Oct. 10.
- Frye, Robert P., Marlboro, Mass. Machine for making shoe boxings. No. 1,410,562; Mar. 28.
- Fryer, Paul H., Philadelphia, Pa. Knitting machine. No. 1,416,186; May 16.
- Fryermuth, William M., et al. (See Rothenberger, Daniel M., assignor.)
- Fryett, Rollo B., Bremerton, Wash. Mixing device. No. 1,424,349; Aug. 1.
- Ftyklo, Andy, Braznell, Pa. Fish trap. No. 1,407,744; Feb. 28.
- Fuchs, Anthony L. (See Fuchs, Edward L. and A. L.)
- Fuchs, Edward L. and A. L., St. Louis, Mo. Garment protector for auto seats. No. 1,415,626; May 9.
- Fuchs, Ernest, Paris, assignor to L. Renault, Billancourt, Seine, France. Valve mechanism for internal-combustion engines. No. 1,415,167; May 9.
- Fuchs, Johann, Appenzel, Switzerland. Rifle. No. 1,428,081; Sept. 5.
- Fuchs, Karl, Atco, N. J. Prism for hemoglobinometers. No. 1,429,072; Sept. 12.
- Fuchs, Richard. (See Jensen, Milton O., assignor.)
- Fuegel, Gottlob. (See Schmid, H., and Fuegel.)
- Fuegel, Gottlob, and H. Schmid, assignors, by mesne assignments, to Apollo Magneto Corporation, Brooklyn, N. Y. Gear construction. No. 1,415,542; May 9.
- Fuegel, Gottlob, and Herman Schmid, assignors, by mesne assignments, to Apollo Magneto Corporation, Brooklyn, N. Y. Key. No. 1,417,161; May 23.

Alphabetical list of patentees—Continued.

- Fuegel, Gottlob, and H. Schmid, assignors, by mesne assignments, to Apollo Magneto Corporation, Brooklyn, N. Y. Lubricating device. No. 1,421,681; July 4.
- Fuegel, Gottlob, and H. Schmid, assignors, by mesne assignments, to Apollo Magneto Corporation, Brooklyn, N. Y. Adjustable bearing. No. 1,426,173; Aug. 15.
- Fuegel, Gottlob, and H. Schmid, assignors, by mesne assignments, to Apollo Magneto Corporation, Brooklyn, N. Y. Electrical condenser. No. 1,440,142; Dec. 26.
- Fuermann, Walter J., Bradford, Pa. Article of jewelry. No. 1,428,158; Sept. 5.
- Fuetter, Albert J., Cleveland, Ohio. Fuel-oil burner. No. 1,417,819; May 30.
- Fugitt, Forrest, assignor of one-half to B. G. Brown, Chillicothe, Mo. Hair clipper. No. 1,427,587; Aug. 29.
- Fuhlrodt, Arnold A., Wisner, Nebr. Corn-husking machine. No. 1,407,057; Feb. 21.
- Fuhr, Albert B., Macomb, Ill. Vehicle wheel. No. 1,432,390; Oct. 17.
- Fuhr, William, Chicago, Ill. Blank-cutting machine. No. 1,428,952; Sept. 12.
- Fuhr, William, Chicago, Ill., assignor to Western Paper-Box Company. Machine for making paper receptacles. No. 1,411,338; Apr. 4.
- Fuhrer, Daniel J., Leanna Township, Logan County, Ill. Truck attachment for automobiles. No. 1,423,931; July 25.
- Fuhrmann, Warren. (See Soderstrom, O., and Fuhrmann.)
- Fujino, Kakuji, Los Angeles, Calif. Apparatus and process for drying wood. No. 1,413,018; Apr. 18.
- Fukuda, Kinsuke, Yokohama, Japan. Elastic roller. No. 1,417,240; May 23.
- Fulcher, Frank C., Walney, Barrow-in-Furness, England. Straining or filtering apparatus. No. 1,414,120; Apr. 25.
- Fulcher, Joseph T., Guntersville, Ala. Combined aeroplane and helicopter. No. 1,418,248; May 30.
- Fulcher, William H., Oakland, Calif. Rotary pulverizer. No. 1,429,333; Sept. 19.
- Fulcrum Tan Company. (See Tullis, John K., assignor.)
- Fuld, Manes E., Baltimore, Md. Cathode. No. 1,439,955; Dec. 26.
- Fuld, Manes E., Baltimore, Md. Battery cell. No. 1,439,956; Dec. 26.
- Fulda, Edward, New York, N. Y. Clip device for reels. No. 1,421,933; July 4.
- Fulda, Edward, New York, N. Y. Wire reel. No. 1,424,651; Aug. 1.
- Fulghum, Claud L. (See Fogal, J. E. W., and Fulghum.)
- Fullam, Charles E., Philadelphia, Pa. Combination comb and toothbrush. No. 1,433,609; Oct. 31.
- Fullenkamp, Frank J. (See Kunkler, C. L., and Fullenkamp.)
- Fullenlove, McClellan C., Louisville, Ky., assignor to Louisville Circuit Breaker Company, Inc. Automatic stop for projection apparatus. No. 1,412,110; Apr. 11.
- Fullenwider, George R., assignor of one-half to O. Olson, Maple Valley, Wash. Tool kit. No. 1,417,725; May 30.
- Fuller, Andrew D., Wakefield, Mass. Coin holder. No. 1,435,834; Nov. 14.
- Fuller Brush Company, The. (See Hines, William J., assignor.)
- Fuller, Charles E. (See Julien, Bartholomew, assignor.)
- Fuller, Charles H., Co. (See Perkins, Floyd R., assignor.)
- Fuller, Charles I., Rochester, N. Y. Folding music holder. No. 1,419,668; June 13.
- Fuller, Edward H., et al. (See Prigan, Gustave H., assignor.)
- Fuller, Ernest L., Akron, Ohio. Drafting device. No. 1,412,050; Apr. 11.
- Fuller, Ernest L., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Inflation mechanism. No. 1,419,038; June 6.
- Fuller, F. A. (See McKirahan, Samuel, assignor.)
- Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Hinge. No. 1,408,727; Mar. 7.
- Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Bag fastener. No. 1,408,728; Mar. 7.
- Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Bag frame. No. 1,422,554; July 11.
- Fuller, Franz A., assignor to The J. E. Mergott Co., Newark, N. J. Blotter. No. 1,422,555; July 11.
- Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Bag fastener. No. 1,429,073; Sept. 12.
- Fuller, Frederick C., Toledo, Ohio. Insulating screen or curtain. (Reissue.) No. 15,273; Jan. 24.
- Fuller, George L., Siquoc, Calif. Deep-well pump. No. 1,416,277; May 16.
- Fuller, Hardick F., Kennewick, Wash. Tool box for automobiles. No. 1,412,680; Apr. 11.
- Fuller, Harry U., Portland, Me. Relief device for hot-water heaters. No. 1,438,105; Dec. 5.
- Fuller, Henry M., assignor of one-half to T. G. Politz, Salt Lake City, Utah. Vulcanizer. No. 1,411,658; Apr. 4.
- Fuller, James T., Midlothian, Tex. Insect exterminator. No. 1,433,885; Oct. 31.
- Fuller, Joe, Sumrall, Miss. Cultivator attachment. No. 1,433,365; Oct. 24.
- Fuller, Leonard F., Palo Alto, assignor to A. Taylor, San Francisco, Calif. Electrical oscillation generator. No. 1,424,141; July 25.
- Fuller, Leslie L., Edmonton, Alberta, Canada. Convertible automobile tonneau. No. 1,416,551; May 16.
- Fuller, Mary A., Pueblo, Colo. Automobile tourist bed. No. 1,433,610; Oct. 31.
- Fuller, Ralph E., Washington, D. C. Dustproofing and cooling tractor cabs. No. 1,416,813; May 23.
- Fuller, Rufus W., Deerfield, assignor to Production Machine Company, Greenfield, Mass. Work holding and feeding device for grinding or polishing machines. No. 1,421,205; June 27.
- Fuller, Silas S., Roxbury, Mass. Traction band. No. 1,431,517; Oct. 10.
- Fuller & Johnson Mfg. Co. (See Gore, Warren W., assignor.)
- Fullerton, George W., Cincinnati, Ohio. Collapsible tube. No. 1,437,934; Dec. 5.
- Fullington, William H., Cleveland, Ohio. Swivel. No. 1,432,059; Oct. 17.
- Fullington, William H., Cleveland, Ohio. Making handles for ropes. No. 1,438,993; Dec. 19.
- Fullington, William H., assignor to The Superior Manufacturing Company, Cleveland, Ohio. Hand rope-making machine. No. 1,432,991; Oct. 24.
- Fullilove, John P., Shreveport, La. Combined drill and reamer. No. 1,411,484; Apr. 4.
- Fullips, George A., Milwaukee, Wis. Mechanical movement. No. 1,419,368; June 13.
- Fullmer, Curtis S. (See Fullmer, John H., assignor.)
- Fullmer, John H., Buffalo, assignor of one-half to C. S. Fullmer, New York, N. Y. Diestock and tap wrench. No. 1,407,058; Feb. 21.
- Fullwood, Robert A., Tucumcari, N. Mex. Windmill. No. 1,420,652; June 27.
- Fulson, Charles H., Trenton, Tenn., assignor to The American Cotton Oil Company, New York, N. Y. Press mat for oil presses. No. 1,414,693; May 2.
- Fulton Bag and Cotton Mills. (See Forrester, Samuel C., assignor.)
- Fulton, Claude V., Hyde Park, South Australia, Australia. Garter or suspender. No. 1,405,199; Jan. 31.
- Fulton Company, The. (See Fulton, Weston M., assignor.)
- Fulton Company, The. (See Giesler, Jean V., assignor.)
- Fulton County Machine and Supply Company. (See Markman, Jacob C., assignor.)
- Fulton, Edwin W., Lowville, N. Y. Vise. No. 1,404,109; Jan. 17.
- Fulton, Harold, Elyria, Ohio. Article retainer. No. 1,429,027; Sept. 12.
- Fulton, Harold, Elyria, Ohio. Internal-threading machine. No. 1,435,959; Nov. 21.
- Fulton Iron Works. (See Hurter, Henry, assignor.)
- Fulton Iron Works Company. (See Burns, Albert M., assignor.)
- Fulton, Robert S., Philadelphia, Pa. Shock absorber. No. 1,428,225; Sept. 5.
- Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Thermostatic regulating device. No. 1,404,844; Jan. 31.
- Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Flexible conduit. No. 1,409,697; Mar. 14.
- Fulton, William B., Middletown, Ohio. Steam-pressure-regulating mechanism. No. 1,414,506; May 2.
- Fults, Edwin. (See Bates, C. A., and Fults.)
- Funal, Choji. (See Hatakeyama, Sakushiro, assignor.)
- Funk, Captain P., Wooster, Ohio. Drain tile. No. 1,406,182; Feb. 14.
- Funk, Captain P., Wooster, Ohio. Making drain tile. No. 1,408,877; Mar. 7.
- Funk, Carlyle B., Chicago, Ill. Liquid clutch and transmission. No. 1,411,485; Apr. 4.
- Funk, Everett W., Columbus, Ohio. Combination wrench. No. 1,422,689; July 11.
- Funk, Henry C., Grant Township, Riley County, Kans. Removable-time pitchfork. No. 1,430,369; Sept. 26.
- Funk, Hugo A., assignor of forty-nine per cent to R. C. Coney, Chicago, Ill. Fountain pen. No. 1,433,682; Oct. 31.
- Funk, John H., St. Louis, Mo. Knuckle-guiding attachment for car couplings. No. 1,407,402; Feb. 21.
- Funk, John H., St. Louis, Mo. Pipe-coupling attachment for car couplings. No. 1,408,351; Feb. 28.
- Funk, John H., St. Louis, Mo. Car coupling. No. 1,418,784; June 6.
- Funk, Nelson E., Montclair, N. J. Blower. No. 1,418,910; June 6.
- Funk, Samuel M., Long Beach, Calif. Brick-cleaning machine. No. 1,424,719; Aug. 1.
- Funk, Truman B., Moline, Ill., and C. M. Eason, Harrison, N. J.; said Eason assignor to said Funk. Engine governor. No. 1,410,462; Mar. 21.
- Funk, Truman B., Moline, Ill., and C. M. Eason, Harrison, N. J.; said Eason assignor to said Funk. Variable-speed governor. No. 1,410,463; Mar. 21.
- Funke, Frank, Almonte, assignor to The Canadian Vaporizer Company, Limited, Toronto, Ontario, Canada. Rotary fuel mixer. No. 1,424,244; Aug. 1.
- Funnell, Christopher E. (See Garrett, A. C., Funnell, and Hoffman.)
- Funsch, Adam J., Brooklyn, N. Y. Pencil sharpener. No. 1,420,539; June 20.
- Funston, Pogue W., Carlyle, Kans. Lock and seal. No. 1,404,593; Jan. 24.
- Furber, Frederick M., Revere, Mass. Temperature-controlling apparatus for internal-combustion engines. No. 1,403,493; Jan. 17.
- Furber, Frederick M., Revere, Mass. Automobile lock. No. 1,429,334; Sept. 19.

Alphabetical list of patentees—Continued.

- Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Burnishing machine. No. 1,404,196; Jan. 24.
- Furber, Frederick M., Revere, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Edge-scouring machine. No. 1,404,752; Jan. 31.
- Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Mechanical movement. No. 1,404,753; Jan. 31.
- Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Softening machine. No. 1,409,164; Mar. 14.
- Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lubricating device. No. 1,410,096; Mar. 21.
- Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for truing scouring wheels. No. 1,426,087; Nov. 21.
- Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Mechanism or apparatus for holding or transferring articles. No. 1,438,480; Dec. 12.
- Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Mechanism or apparatus for holding or transferring articles. No. 1,438,481; Dec. 12.
- Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Mechanism for holding or transferring articles. No. 1,438,482; Dec. 12.
- Furbush, Frank L., Westford, Mass., assignor to C. G. Sargent's Sons Corporation. Yarn moistener. No. 1,437,588; Dec. 5.
- Furfaro, Nicola, Seattle, Wash. Electric heater. No. 1,410,400; Mar. 21.
- Furlan, John G., assignor, by mesne assignments, to Marye Safety Nut Corporation, Chicago, Ill. Milling machine. No. 1,411,718; Apr. 4.
- Furlong, Frank, Jersey City, N. J. Ship-launching device. No. 1,440,350; Dec. 26.
- Furlong, Martin J., Houston, Tex. Vehicle. No. 1,436,031; Nov. 21.
- Furlow, Floyd C., Montclair, assignor to Otis Elevator Company, Jersey City, N. J. Leveling device. (Re-issue.) No. 15,342; Apr. 25.
- Furman, Jack, Fort Bliss, Tex. Safety bottle stopper. No. 1,416,278; May 16.
- Furman, Samuel, Worcester, assignor to United States Envelope Company, Springfield, Mass. Machine for making window envelope blanks. No. 1,428,429; Sept. 5.
- Furnace Fan Corporation. (See Wales, Nathaniel B., assignor.)
- Furness, George T., and L. R. Senn, Syracuse, N. Y. Tool-adjusting micrometer. No. 1,421,073; June 27.
- Furness, Radcliffe, Jenkintown, and M. G. Bittel, North Glenside, Pa. Liquid-fuel burner. No. 1,427,202; Aug. 29.
- Furr, Turner C. (See Arcaro, J. G., and Furr.)
- Furrer, Samuel S., Oxnard, Calif. Beet plow. No. 1,413,019; Apr. 18.
- Furst, Jakob, Zurich, Switzerland. Lift jack. No. 1,420,831; June 27.
- Fuscaldo, Ottavio, Brescia, Italy. Connection of motor-vehicle wheels to the vertices of a rhombus. No. 1,426,975; Aug. 22.
- Fusch, Ora O. (See Avery, E. S., and Fusch.)
- Fushs, Joseph A., Richmond, Ind. Valve refacing and grinding tool. No. 1,430,976; Oct. 3.
- Fussell, George, Philadelphia, Pa. Vacuum means for holding type and music sheets upon printing presses. No. 1,426,471; Aug. 22.
- Futurist Company, The. (See Mower, Edward B., assignor.)
- Fuzessery, Elmer, Akron, Ohio. Resilient heel. No. 1,416,279; May 16.
- Fuzy, Paul, Sheridan, Pa. Nonrefillable-bottle cap. No. 1,428,479; Sept. 5.
- Fyan, William J., Olean, N. Y. Manifold heater for internal-combustion engines. No. 1,440,287; Dec. 26.
- Fyffe, Thomas L., Dundee, Scotland. Collar or the like for joining hard-metal pipes. No. 1,426,724; Aug. 22.
- Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Alternating-current motor. No. 1,406,366; Feb. 14.
- Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Alternating-current motor. No. 1,406,367; Feb. 14.
- Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Speed-regulating apparatus. No. 1,411,339; Apr. 4.
- Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Ignition system. No. 1,425,001; Aug. 8.
- G. B. Development Syndicate Limited, The. (See Coley, H. E., and Dickson, assignors.)
- G. & J. Tire Company. (See Jordan, T. A., and Caesher, assignors.)
- G & J Tire Company. (See McRoberts, Donal C., assignor.)
- G. Josephy's, Erben. (See Schorsch, Ludwig, assignor.)
- Gaalaas, Percy A., Minneapolis, Minn. Armature tester. No. 1,412,051; Apr. 11.
- Gaar, James M., Richmond, Ind. Vehicle spring. No. 1,422,956; July 18.
- Gabbert, Archie D., Spokane, Wash. Road-guide and travel indicator for automobiles. No. 1,408,352; Feb. 28.
- Gabel, Carl, Allentown, Pa., assignor to United States Gauge Company, New York, N. Y. Pressure gauge. No. 1,414,121; Apr. 25.
- Gabel, John, Chicago, Ill. Automatic talking machine. No. 1,414,563; May 2.
- Gabel, John, Chicago, Ill. Automatic talking machine. No. 1,414,564; May 2.
- Gabel, Thomas R., Los Angeles, Calif. Attachment for cotton-picking machines. No. 1,411,568; Apr. 4.
- Gabet, Gustave, Paris, France. Heating system. No. 1,422,556; July 11.
- Gabet, Gustave, Paris, France. Fireplace water back. No. 1,426,976; Aug. 22.
- Gable, Benjamin F., Berkeley, assignor of one-third to Pacific Sanitary Manufacturing Company, San Francisco, Calif. Flush valve. No. 1,404,594; Jan. 24.
- Gablentz, Adolf, Lubeck, Germany. Door lock. No. 1,422,690; July 11.
- Gabrial, John, Brooklyn, N. Y. Convertible window-cleaner's stand. No. 1,402,156; Jan. 3.
- Gabriel, Albert A., Portland, Oreg. Furnace. No. 1,440,071; Dec. 26.
- Gabriel, John, Randolph, Mass. Child's coop. No. 1,429,335; Sept. 19.
- Gabrielson, Carl, assignor, by mesne assignments, to Meldrum-Gabrielson Corporation, Syracuse, N. Y. Adjustable gearing for milling machines. No. 1,425,848; Aug. 15.
- Gabrielson, Nels M., Westby, Wis. Planting-machine attachment. No. 1,413,398; Apr. 18.
- Gabris, Filbert L., assignor of one-half to C. E. McLaughlin, St. Paul, Minn. Liquid-dispensing tank. No. 1,434,948; Nov. 7.
- Gadbois, Joseph E., Springfield, Mass. Dental flask holder. No. 1,410,291; Mar. 21.
- Gade, Frank, Chicago, Ill. Radiator attachment. No. 1,417,312; May 23.
- Gaebe, Oscar J. W., Addieville, Ill. Automatically-operating control switch for a water system. No. 1,405,200; Jan. 31.
- Gaede, Robert H., Fraekness, N. J. Cigar case. No. 1,430,637; Oct. 3.
- Gaertner, Ralph A., San Pedro, Calif. Adjustable firing chamber for solid injection engines. No. 1,413,466; Apr. 18.
- Gaertner, Ralph A., Los Angeles, Calif. Power net roller. No. 1,413,467; Apr. 18.
- Gaertner, Richard, and H. Klein, Milwaukee, assignors to Triumph Stove and Heater Company, Wauwatosa, Wis. Heater. No. 1,434,603; Nov. 7.
- Gaess, Albert H., assignor to The E. J. Manville Machine Company, Waterbury, Conn. Punch-transfer mechanism for heading machines. No. 1,437,935; Dec. 5.
- Gaffey, James W., Cedar Rapids, Iowa. Refractometer. No. 1,440,351; Dec. 26.
- Gagarine, Prince E. (See Karycheff, V., and Gagarine.)
- Gage, Clarence E., Evansville, Ind., assignor to Bucyrus Company, South Milwaukee, Wis. Saddle-block structure for excavators. No. 1,422,259; July 11.
- Gage, Henry P. (See Taylor, W. C., and Gage.)
- Gagen, John E., Pittsburgh, Pa. Dishwashing machine. No. 1,417,162; May 23.
- Gagg, Anton. (See Zoelly, H., and Gagg.)
- Gagin, David, assignor of one-fifth to T. J. Duggan, Boston, and one-fifth to J. A. Aicardi, jr., Dorchester, Mass. Lock for motor vehicles. No. 1,424,295; Aug. 1.
- Gagliazzo, Carlo, Ronco Biellese, Italy. Typewriter. No. 1,420,998; June 27.
- Gagnon, Albert, et al. (See Gagnon, Peter J., Jr., assignor.)
- Gagnon, Ernest A., Salem, Mass., assignor to Draper Corporation, Hopedale, Mass. Thread-cutting temple for looms. No. 1,437,377; Nov. 28.
- Gagnon, Peter J., Jr., assignor of one-third to J. L. Henderson and one-third to A. Gagnon, Lowell, Mass. Automatic feed regulator for machines having air separators. No. 1,421,343; June 27.
- Gahn, Frank, Streator, Ill. Automobile seat. No. 1,427,280; Aug. 29.
- Gail, Charles H., assignor to The Shott Manufacturing Company, Cincinnati, Ohio. Bedspring. No. 1,437,235; Nov. 28.
- Gail, John F., Evanston, Ill., assignor to Simmons Company, Kenosha, Wis. Roll-grinding mechanism. No. 1,404,691; Jan. 24.
- Gail, John F., Evanston, Ill., assignor to Simmons Company, Kenosha, Wis. Welded joint and method and means for making same. No. 1,411,340; Apr. 4.
- Gail, John F., assignor to Simmons Company, Kenosha, Wis. Bar cutting and straightening apparatus. No. 1,424,465; Aug. 1.
- Gail, John F., Evanston, Ill., assignor to Simmons Company, Kenosha, Wis. Caster socket. No. 1,424,466; Aug. 1.
- Gaillard, Theophile, Territet, Switzerland. Press for making pastils and other similar products. No. 1,435,599; Nov. 14.

- Gaillet, Paul H. A., Cysoing, France. Combination of pyramidal surfaces for the purification of liquids, vapors, and gases. No. 1,403,311; Jan. 10.
- Gailor, Chester F., Brooklyn, N. Y. Welded joint. No. 1,418,071; May 30.
- Gaines, Edward C., Montreal, Quebec, Canada. Door opener. No. 1,405,404; Feb. 7.
- Gaines, Ernest L., Seattle, Wash. Identifying tag for umbrellas. No. 1,407,144; Feb. 21.
- Gaines, William H., Estill Springs, Tenn. Shock absorber. No. 1,419,838; June 13.
- Gains, Chester R., Colfax, assignor of one-half to S. A. Potts, Muscatine, Iowa. Call clock. No. 1,424,092; July 25.
- Gaiser, Paul, Sellersville, Pa., assignor to United States Gauge Company, New York, N. Y. Pressure gauge. No. 1,414,122; Apr. 25.
- Gaisman, Henry J. (See Graef, Ernest W., assignor.)
- Gaisman, Lucien, Woodley, Stockport, England. Guard for rubber mills and like machines. No. 1,439,544; Dec. 19.
- Gaitman, Louis, Chicago, Ill. Window seat. No. 1,438,704; Dec. 12.
- Gaitsch, Gustav. (See Ehemann, W., and Gaitsch.)
- Gakle, William, Chicago, Ill. Truck. No. 1,437,971; Dec. 5.
- Galamb, Joseph, Detroit, assignor to Ford Motor Company, Highland Park, Mich. Tire carrier. No. 1,415,870; May 16.
- Galamb, Joseph, Detroit, assignor to Ford Motor Company, Highland Park, Mich. Door buffer. No. 1,423,521; July 25.
- Galamb, Joseph, assignor to Ford Motor Company, Detroit, Mich. Transmission and lining for the bands thereof. No. 1,424,893; Aug. 8.
- Galamb, Joseph, assignor to Ford Motor Company of Delaware, Detroit, Mich. Carburetor priming-rod mounting. No. 1,436,706; Nov. 28.
- Galassi, Ernest, Brooklyn, N. Y. Combination tailor's measuring implement. No. 1,431,298; Oct. 10.
- Galassi, Onorey J., Stockton, Calif. Sink-top structure. No. 1,412,398; Apr. 11.
- Galbraith, Isaac J., Chicago, Ill. Automatically-adjustable wrench. No. 1,421,206; June 27.
- Galbraith, John, St. Paul, Minn. Sanding machine. No. 1,430,370; Sept. 26.
- Galbreath, Charles E., Chanute, Kans. Portière rod. No. 1,425,247; Aug. 8.
- Galdi, Alfred C. and A., Somerville, Mass. Wine press. No. 1,412,029; Apr. 4.
- Galdi, Armand. (See Galdi, Alfred C. and A.)
- Gale Box Machinery Company. (See Cook, Ornan S., assignor.)
- Gale, Edgar L., Bremerton, Wash. Display apparatus. No. 1,424,850; Aug. 1.
- Gale, Edna W., et al. (See Scott, Joseph H., assignor.)
- Gale, Francis G. (See Shaw, P. W., and Gale.)
- Gale, Francis G. (See Stearns, F. G., and Greene, assignors.)
- Gale, Francis G. (See Stearns, Frederick S., assignor.)
- Gale, Francis G., Waterville, Quebec, Canada. Mattress frame. No. 1,419,727; June 13.
- Gale, Francis G., Waterville, Quebec, Canada. Bedstead. No. 1,429,422; Sept. 19.
- Gale, Francis G., Waterville, Quebec, Canada. Bed bottom. No. 1,433,268; Oct. 24.
- Gale, Francis G., Waterville, Quebec, Canada. Electric welding machine. No. 1,434,285; Oct. 31.
- Gale, Francis G., Waterville, Quebec, Canada. Tube-welding machine. No. 1,434,884; Nov. 7.
- Gale, Francis G., Waterville, Quebec, Canada. Machine for forming tubes. No. 1,435,835; Nov. 14.
- Gale, Francis G., Waterville, Quebec, Canada, and P. W. Shaw, Lynn, Mass.; said Shaw assignor to said Gale. Tube-welding machine. No. 1,434,885; Nov. 7.
- Gale, Harry E., Agontz, and W. D. Banes, Philadelphia, Pa. Flaking device. No. 1,410,008; Mar. 21.
- Gale, Walter M. A., assignor of one-half to A. L. Carroll, Toronto, Ontario, Canada. Binder. No. 1,412,857; Apr. 18.
- Gales, Arthur C., Milwaukee, Wis. Automatic shoe cleaner. No. 1,420,375; June 20.
- Galion Iron Works & Mfg. Co. (See Arndt, Franklin E., assignor.)
- Galion Iron Works & Mfg. Co. (See Jones, Henry D., assignor.)
- Gallacher, Christopher, Jasper, Ala., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining apparatus. No. 1,411,341; Apr. 4.
- Gallagher, Alfred H., Oak Park, assignor to National Retarder Company, Chicago, Ill. Production of yeast food. No. 1,431,448; Oct. 10.
- Gallagher, Arthur D., assignor to Oliver Chilled Plow Works, South Bend, Ind. Lister plow. No. 1,428,543; Sept. 12.
- Gallagher, David R., Troy, N. Y. Adjustable reamer. No. 1,414,565; May 2.
- Gallagher, Fred E., Santa Clara, Calif. Telephone set. No. 1,438,106; Dec. 5.
- Gallagher, George D., Washington, D. C., assignor to Winchester Repeating Arms Company, New Haven, Conn. Handlamp switch. No. 1,419,728; June 13.
- Gallagher, George D., Washington, D. C., assignor to Winchester Repeating Arms Company, New Haven, Conn. Handlamp switch. No. 1,419,729; June 13.
- Gallagher, George D., Washington, D. C., assignor to Winchester Repeating Arms Company, New Haven, Conn. Handlamp switch. No. 1,436,340; Nov. 21.
- Gallagher, James F., Brooklyn, N. Y. Temperature-controlling device. No. 1,433,074; Oct. 24.
- Gallagher, Richard D., Chicago, Ill. Adjustable rail clamp. No. 1,439,087; Dec. 19.
- Gallagher, Richard D., Chicago, Ill. Adjustable clamp for rails. No. 1,439,088; Dec. 19.
- Gallagher, Richard D., Chicago, Ill. Guard rail and means of applying the same. No. 1,439,090; Dec. 19.
- Gallagher, Richard D., assignor to Roos Foundries, Inc., Chicago, Ill. Bumping post. No. 1,439,084; Dec. 19.
- Gallagher, Richard D., assignor to Roos Foundries, Inc., Chicago, Ill. Reroller or car replacer. No. 1,439,085; Dec. 19.
- Gallagher, Richard D., assignor to Roos Foundries, Inc., Chicago, Ill. Derail. No. 1,439,086; Dec. 19.
- Gallagher, Richard D., assignor to Roos Foundries, Inc., Chicago, Ill. Portable car stop or chock. No. 1,439,089; Dec. 19.
- Gallagher, Richard D., Jr., Flatbush, N. Y. Draft gear for railway cars. No. 1,419,669; June 13.
- Gallagher, Richard D., Jr., Flatbush, assignor to Standard Coupler Company, New York, N. Y. Yielding resistance unit for car buffers. No. 1,423,522; July 25.
- Gallagher, Robert B., and R. C. Young, Winnipeg, Manitoba, Canada. Bedspring attachment. No. 1,423,100; July 18.
- Gallagher, Thomas H., Crafton, Pa. Double packer for liners. No. 1,411,486; Apr. 4.
- Gallagher, W. E., Framingham, Mass. Filter. No. 1,418,785; June 6.
- Gallagher, William. (See Crompton, J., and Gallagher.)
- Gallagher, William M., Fort Smith, Ark. Kitchen cabinet. No. 1,406,368; Feb. 14.
- Galland-Henning Mfg. Co. (See Nelson, K. O., and Albert, assignors.)
- Gallaudet, Edson F., Providence, R. I. Electric gauge. No. 1,424,637; Aug. 1.
- Galloway, Albert I., St. Louis, Mo. Phonograph-record holder. No. 1,407,938; Feb. 28.
- Galloway, Merrill W. (See Price, Frank J., assignor.)
- Gallay, Georges, Le Sentier, Switzerland. Lever escapement. No. 1,433,611; Oct. 31.
- Galleazzi, Joseph, San Francisco, Calif. Educational and amusement device. No. 1,424,467; Aug. 1.
- Gallehue, Paul, Springfield, Ohio. Vehicle signal. No. 1,411,719; Apr. 4.
- Gallery, Alfred M., Toronto, Ontario, Canada. Street indicator for street-railway systems. No. 1,425,583; Aug. 15.
- Galli, Louis C., New York, N. Y. Temperature regulator for internal-combustion engines. No. 1,409,698; Mar. 14.
- Gallien, Paul A., Shattuck, Okla. Paper-feeding device. No. 1,417,597; May 30.
- Gallon, Henry E. A., Herblay, France. Expanding apparatus with automatic stopping and adjustable action. No. 1,410,464; Mar. 21.
- Galloway, James M., Terre Haute, Ind. Knockdown portable wardrobe. No. 1,408,284; Feb. 28.
- Galloway, Robert B., assignor to Packard Motor Car Company, Detroit, Mich. Windshield. No. 1,434,604; Nov. 7.
- Galloway, William M., Vera, Tex. Compressed-air feed for automobiles. No. 1,419,553; June 13.
- Gallsworthy, Benjamin, Port Arthur, Tex. Oil-topping plant. No. 1,428,159; Sept. 5.
- Gallup, Delbert. (See Quinn, E. V., and Gallup.)
- Gallus, Charles, Philadelphia, Pa. Receptacle for storage batteries. No. 1,402,591; Jan. 3.
- Galopin, Henri, Melbourne, Victoria, assignor to W. M. Bruce, Traralgon, and J. N. Matheson, Sale, Victoria, Australia. Speed, time, and quantity recording instrument. No. 1,421,352; June 27.
- Galpin, George, and D. H. Baer, Detroit, Mich., assignors to Morgan & Wright. Electrically-controlled power cut-out safety device. No. 1,433,809; Oct. 31.
- Galusha, Albert L., Sharon, Mass. Attachment for gas producers. No. 1,409,941; Mar. 21.
- Galusha, Albert L., Sharon, Mass. Gas producer. No. 1,429,578; Sept. 19.
- Galvanophoren-Werke (System Vogt) S. Szubert, Commandit-Gesellschaft. (See Vogt, Agnes, assignor.)
- Galvery, Frank W., et al. (See Bentley, Dozier T., assignor.)
- Galvin, John E. (See Priwer, Herman F., assignor.)
- Gamage, Harry C., New York, N. Y., assignor to D. P. Company. Dustguard. No. 1,421,449; July 4.
- Gamage, William T., assignor to Gorton-Pew Fisheries Company, Gloucester, Mass. Food product and preparing the same. No. 1,408,803; Mar. 7.
- Gambie, William Y., Brooklyn, N. Y. Snow remover. No. 1,412,804; Apr. 11.
- Gambell, Karl V., Chicago, Ill. Polychrome candle and making same. No. 1,426,174; Aug. 15.
- Gambino, Frank, Philadelphia, Pa. Combination-operated lock. No. 1,426,977; Aug. 22.
- Gambino, Frank, Philadelphia, Pa. Combination padlock. No. 1,426,978; Aug. 22.

Alphabetical list of patentees—Continued.

- Gamble, Adrian R. (See Suman, J. R., and Gamble.)
 Gamble, August, Pasadena, assignor to American Gas Appliance Company, Los Angeles, Calif. Floor furnace. No. 1,415,234; May 9.
 Gamble, Stanley B., West Perth, Western Australia, Australia. Bedstead and other furniture. No. 1,405,373; Jan. 31.
 Gambrell, Robert S., Honea Path, S. C. Picker-head holder. No. 1,426,175; Aug. 15.
 Gamm, Charles, Fort Worth, Tex. Gas producer. No. 1,409,440; Mar. 14.
 Gamewell Fire Alarm Telegraph Company, The. (See Beach, Clarence E., assignor.)
 Gamm, Charles C., St. Paul, Minn. Machine for applying waterproof coating to paper and other fabrics. No. 1,410,465; Mar. 21.
 Gamm, Charles C., St. Paul, Minn., assignor to Waldorf Paper Products Company. Scoring and trimming machine. No. 1,422,095; July 11.
 Gammell, Alexander. (See Hanney, Angus F., assignor.)
 Gammeter, Harry C., Cleveland Heights, Ohio, assignor to The American Multigraph Company, Cleveland, Ohio. Jogging machine. No. 1,411,964; Apr. 4.
 Gamueter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Vehicle-wheel-rim structure. No. 1,404,754; Jan. 31.
 Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Making rubber cylinders. No. 1,405,998; Feb. 7.
 Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Cushion tire. No. 1,410,669; Mar. 28.
 Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Vulcanizing apparatus. No. 1,414,507; May 2.
 Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire flap. No. 1,410,187; May 16.
 Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Vulcanizing mold for tire casings. No. 1,417,509; May 30.
 Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for making cushion tires. No. 1,418,639; June 6.
 Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for manipulating flexible articles. No. 1,421,450; July 4.
 Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for making cushion tires. No. 1,425,085; Aug. 8.
 Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Internal-pressure vulcanizing apparatus. No. 1,435,113; Nov. 7.
 Gammeter, William F., Cadiz, Ohio. Film reel. No. 1,417,313; May 23.
 Gammon, Joseph P., Rochester, N. Y. Detachable pedal for accelerators. No. 1,428,082; Sept. 5.
 Gamon Meter Company. (See Anderson, Robert A., assignor.)
 Gampher, George R. (See Narans, K. B., and Gampher.)
 Gams, Alfons, and E. Wybert, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Preparing optically active aromatic aminoalcohols. No. 1,423,101; July 18.
 Gane, Eustace H., New York, N. Y., assignor to McKesson & Robbins, Incorporated. Medicinal preparation. No. 1,405,999; Feb. 7.
 Gannon, Joseph J., assignor to Diamond Crystal Salt Company, St. Clair, Mich. Carton. No. 1,415,543; May 9.
 Gannon, Joseph P. (See French, James R., assignor.)
 Gannon, Timothy A., Somerville, Mass. Nut-locking device. No. 1,403,312; Jan. 10.
 Gannon, Timothy A., Somerville, Mass. Shock-absorbing apparatus. No. 1,407,745; Feb. 28.
 Gans, Morris I., Lynchburg, Va. Door plate and signal. No. 1,431,390; Oct. 10.
 Gans, Robert S., New York, N. Y. Load-indicating device. No. 1,409,699; Mar. 14.
 Ganse, Franklin W., Brookline, Mass. Game apparatus. No. 1,419,554; June 13.
 Ganster, William F., New York, N. Y. Pipe wall scraper. No. 1,411,965; Apr. 4.
 Gantvoort, John M., Beacon, N. Y. Baker's oven. No. 1,410,466; Mar. 21.
 Ganz, Adolf, New Brighton, N. Y. Swivel union. No. 1,436,392; Nov. 21.
 Ganz, Albert J., New York, N. Y., assignor to Einson Litho, Incorporated. Display device. No. 1,428,226; Sept. 5.
 Gape, Henry B., Detroit, Mich. Hood fastener. No. 1,422,691; July 11.
 Garaca, Frank, Cleveland, Ohio. Battery. No. 1,415,832; May 9.
 Garagnani, Frank, Herrin, Ill. Railway-track indicator. No. 1,422,047; July 4.
 Garbarini, André, et al. (See Maclaure, Louis, assignor.)
 Garbarini, André, Courbevoie, France. Pumping apparatus. No. 1,425,191; Aug. 8.
 Garbarini, André, Courbevoie, Seine, France. Radiator for gas heating by incandescence. No. 1,427,371; Aug. 29.
 Garbe, Reinhold H., Yakima, Wash. Combined holder for coupon books and ice picks. No. 1,407,464; Feb. 21.
 Garbel, Max, assignor, by mesne, assignments, to Garbell Typewriter Corporation, Chicago, Ill. Typewriting machine. (Reissue.) No. 15,305; Mar. 14.
 Garbell, Max, Chicago, Ill. Multicolored-ribbon shift for typewriters. No. 1,429,678; Sept. 19.
 Garbell Typewriter Corporation. (See Garbel, Max, assignor.) (Reissue.)
 Garberding, Angelo F., Goodland, Minn. Belt. No. 1,421,451; July 4.
 Garbuth, George, Stockton, Calif. Piston-ring compressor. No. 1,422,557; July 11.
 Garbush, Oscar A. (See Bukachek, F., and Garbush.)
 Garcelon, George H., Swissvale, and J. L. Chantemerle, Turtle Creek, Pa., assignors to Westinghouse Electric and Manufacturing Company. Centrifugally-actuated short-circuiting device. No. 1,425,639; Aug. 15.
 Garcia, Joseph B., San Francisco, Calif. Smoking appliance. No. 1,420,089; June 20.
 Gardan, Coll E., Wilson Creek, Wash. Extracting fertilizing elements from manure. No. 1,422,434; July 11.
 Garden, David A., St. Louis, Mo. Resilient tire. No. 1,424,468; Aug. 1.
 Gardenhour, Allen J., Waynesboro, Pa. Combination electric switch. No. 1,417,898; May 30.
 Gardie, Paul, Chicago, Ill. Banjo. No. 1,424,296; Aug. 1.
 Gardiner, Edwin S., New Orleans, La. Device for supporting various articles. No. 1,418,435; June 6.
 Gardiner, Edwin S., New Orleans, La. Drip coffeepot. No. 1,418,436; June 6.
 Gardiner, John D., et al. (See Lyons, Earle B., assignor.)
 Gardiner, Lou M., San Francisco, Calif., assignor to The Iron Horse Tractor Company, a Corporation of Delaware. Farm tractor. No. 1,409,165; Mar. 14.
 Gardiner, Lou M., assignor to The Iron Horse Tractor Co., Pittsburgh, Pa. Tractor. No. 1,422,558; July 11.
 Gardiner, Norman B., Staten Island, N. Y. Fluid-measuring apparatus. No. 1,429,232; Sept. 19.
 Gardiner, William, assignor to D-G. Storage Battery Company, Chicago, Ill. Cover construction for storage batteries. No. 1,433,542; Oct. 31.
 Gardner, Albert R., assignor of one-fourth to J. C. Josse and one-fourth to F. R. Loveridge, St. Louis, Mo. Safety electric switch. No. 1,402,167; Jan. 3.
 Gardner, Alfred E., Wichita, Kans. Collar clasp. No. 1,430,804; Oct. 3.
 Gardner, Blake W., Memphis, Tenn. Automatic stop for phonographs. No. 1,413,718; Apr. 25.
 Gardner, David S. (See Gardner, Joseph A. and D. S.)
 Gardner, Edgar L., assignor to Pullman Mfg. Company, Rochester, N. Y. Winding drum. No. 1,435,461; Nov. 14.
 Gardner, Edward B., Beloit, Wis. Grinding wheel. No. 1,415,331; May 9.
 Gardner, Edward B., assignor to Badger Tool Company, Beloit, Wis. Ring-grinding machine. No. 1,436,759; Nov. 28.
 Gardner, Frank J., North Branch, Mich. Die punch. No. 1,411,913; Apr. 4.
 Gardner, George W., Bridgeport, Conn. Clasp. No. 1,433,197; Oct. 24.
 Gardner, Henry. (See Scanlan, J., and Gardner.)
 Gardner, Henry A., Washington, D. C. Drying composition and making same. No. 1,412,399; Apr. 11.
 Gardner, Howard S., East Orange, N. J. Apparatus for hoisting materials. No. 1,420,310; June 20.
 Gardner, Howard S., East Orange, N. J. Hoisting apparatus. No. 1,428,160; Sept. 5.
 Gardner, James A., Dixon, Miss. Trace hook. No. 1,426,176; Aug. 15.
 Gardner, John D., Gainesville, Fla. Running gear for vehicles. No. 1,406,000; Feb. 7.
 Gardner, John P., Soldiers Home, Calif. Rail fastener. No. 1,421,682; July 4.
 Gardner, Joseph A. and D. S., Memphis, Tenn. Dental flask. No. 1,414,566; May 2.
 Gardner, Ralph D., Beloit, Wis. Ring-grinding machine. No. 1,416,952; May 23.
 Gardner, William R., Los Angeles, Calif. Fishtail bit. No. 1,428,774; Sept. 12.
 Gardner, William T., Bruern, England, assignor to Isbell-Porter Company, Newark, N. J. Vertical retort for carbonizing coal. No. 1,407,996; Feb. 28.
 Garduliz, John, assignor of one-third to N. Lutzink, Sonman, Pa. Rail connection. No. 1,402,158; Jan. 3.
 Gareis, John E., Flush, Kans. Resilient wheel. No. 1,409,290; Mar. 14.
 Garelli, Adalberto, Milan, Italy. Change-speed gear. No. 1,425,002; Aug. 8.
 Garfield, James R. (See Wright, Joseph L., assignor.)
 Garfield, James R., trustee. (See Clement, Edward E., assignor.)
 Garfinkle, Nathan, Philadelphia, Pa. Slipper. No. 1,410,907; Mar. 28.
 Gargan, John O., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum-tube socket. No. 1,432,992; Oct. 24.
 Garguilo, Frederick, New Haven, Conn. Radiator for internal-combustion engines. No. 1,426,725; Aug. 22.
 Garibaldi, Michael B. (See Seaboldt, B., and Brown, assignor.)
 Gariglio, Donato, Turin, Italy. Automatic coupling for ropes, cables and the like. No. 1,426,563; Aug. 22.
 Garis, Estella S. (See Zendt, P. H., and Garis.)
 Garl, Manious, Akron, Ohio. Electric igniter for cigars. No. 1,410,176; Mar. 21.

Alphabetical list of patentees—Continued.

- Garland, Claude M., Chicago, Ill. Apparatus for coking coal. No. 1,402,413; Jan. 3.
- Garland, Claude M., Chicago, Ill. Shock absorber. No. 1,405,912; Feb. 7.
- Garland, Claude M., Chicago, Ill. Boiler cleaner. No. 1,416,552; May 16.
- Garland, Claude M., Chicago, Ill. Apparatus for blowing soot from the tubes of boilers. No. 1,416,553; May 16.
- Garland, Samuel A., Salisbury, N. C. Tractor-wheel attachment. No. 1,408,285; Feb. 28.
- Garlick, Jew, Paterson, N. J. Valve. No. 1,418,911; June 6.
- Garling, Karl E., New York, N. Y. Electric neutralizer and drier for printing presses. No. 1,413,719; Apr. 25.
- Garlinghouse, Leslie H., Aspinwall, Pa., assignor to Blaw-Knox Company. Panel. No. 1,417,664; May 30.
- Garlinghouse, Leslie H., Aspinwall, Pa., assignor to Blaw-Knox Company. Panel. No. 1,426,374; Aug. 22.
- Garlinghouse, Leslie H., Aspinwall, Pa., assignor to Blaw-Knox Company. Floor form. No. 1,428,953; Sept. 12.
- Garman, Charles F., Ventura, Calif. Fruit cutter. No. 1,421,207; June 27.
- Garman, Harry B., Detroit, Mich., assignor to The Steel Products Company, Cleveland, Ohio. Drag link. No. 1,410,908; Mar. 28.
- Garman, Harry B., Detroit, Mich., assignor to The Steel Products Company, Cleveland, Ohio. Drag link. No. 1,416,188; May 16.
- Garman, Harry B., Detroit, Mich., assignor to The Steel Products Company, Cleveland, Ohio. Drag link. No. 1,416,189; May 16.
- Garman, Harry B., Detroit, Mich., assignor to The Steel Products Company, Cleveland, Ohio. Drag link. No. 1,428,024; Sept. 5.
- Garner, Claude E., et al. (See Werts, William D., assignor.)
- Garner Gin Company, The. (See Garner, James C., assignor.)
- Garner, Herman H., Pomona, Calif. Breather-pipe filter. No. 1,402,348; Jan. 3.
- Garner, Herman H., Pomona, Calif. Centrifugal air cleaner. No. 1,404,952; Jan. 31.
- Garner, Herman H., Pomona, Calif. Air cleaner. No. 1,423,412; July 18.
- Garner, Herman H., Pomona, Calif. Wet-filter air cleaner. No. 1,426,177; Aug. 15.
- Garner, James B., Pittsburgh, and J. B. Anderson, Shaler Township, Allegheny County, Pa. Primer for gas engines. No. 1,431,518; Oct. 10.
- Garner, James B., and S. C. Preston, assignors, by mesne assignments, to Hope Construction and Refining Company, Pittsburgh, Pa. Apparatus for recovering gasoline from natural gas. No. 1,437,101; Nov. 28.
- Garner, James B., and S. C. Preston, assignors to Hope Construction & Refining Company, Pittsburgh, Pa. Recovering gasoline from natural gas. No. 1,437,102; Nov. 28.
- Garner, James C., assignor, by mesne assignments, to The Garner Gin Company, Inc., Houston, Tex. Pneumatic roller gin. No. 1,406,634; Feb. 14.
- Garner, James C., assignor, by mesne assignments, to The Garner Gin Company, Inc., Houston, Tex. Pneumatic disk gin. No. 1,406,635; Feb. 14.
- Garner, James C., assignor, by mesne assignments, to The Garner Gin Company, Inc., Houston, Tex. Seed cleaner. No. 1,406,636; Feb. 14.
- Garner, James C., assignor, by mesne assignments, to The Garner Gin Company, Inc., Houston, Tex. Mechanism for collecting and condensing cotton. No. 1,409,540; Mar. 14.
- Garner, James C., assignor, by mesne assignments, to The Garner Gin Company, Inc., Houston, Tex. Cotton separator. No. 1,409,541; Mar. 14.
- Garner, James C., assignor, by mesne assignments, to The Garner Gin Company, Inc., Houston, Tex. Toothed drum for treating cotton. No. 1,413,020; Apr. 18.
- Garner, James C., assignor, by mesne assignments, to The Garner Gin Company, Inc., Houston, Tex. Fiber-separating device. No. 1,414,508; May 2.
- Garner, James C., assignor, by mesne assignments, to The Garner Gin Company, Inc., Houston, Tex. Fiber-separating device. No. 1,414,509; May 2.
- Garner, John L., Milwaukee, Wis. Portable cylinder grinder. No. 1,408,578; Mar. 7.
- Garner, Kirby B., Winnipeg, Manitoba, Canada. Pencil cap. No. 1,432,993; Oct. 24.
- Garner, Perry I., Eureka, Kans. Corn planter. No. 1,423,932; July 25.
- Garnett, Harrison, Norristown, Pa. Combined beaming frame and press for looms. No. 1,431,449; Oct. 10.
- Garnett, Lemuel E., Tacoma, Wash. Jewel-setting machine. No. 1,415,235; May 9.
- Garniss, George W., Yarmouthville, Me. Cabinet. No. 1,409,942; Mar. 21.
- Garno, George E., assignor, by mesne assignments, to the Locomobile Company, Bridgeport, Conn. Motor vehicle. No. 1,412,052; Apr. 11.
- Garoff, Nikolai, Helsingfors, Finland. Carburetor for internal-combustion engines. No. 1,420,090; June 20.
- Garon, Israel, Duluth, Minn. Garment-drying frame. No. 1,419,133; June 13.
- Garratt, Abraham. (See Garratt, S., Barron, and Garratt.)
- Garratt, Skerrett, G. Barron, and A. Garratt, Peterborough, England. Combination gauging tool. No. 1,408,085; Feb. 28.
- Garratt, Walter A., Covington, Ky. Pneumatic horn. No. 1,427,281; Aug. 29.
- Garratt, Walter A., Covington, Ky. Sounding device. No. 1,434,655; Nov. 7.
- Garratt, Walter A., Covington, Ky. Pneumatic horn. No. 1,434,656; Nov. 7.
- Garratt, Walter A., Covington, Ky. Pneumatic sounding device. No. 1,434,657; Nov. 7.
- Garred-Cavers Corporation. (See Garred, Ulysses A., assignor.)
- Garred, Ulysses A., Elmhurst, assignor to Garred-Cavers Corporation, New York, N. Y. Furnace for the smelting of ores and other materials. No. 1,439,957; Dec. 26.
- Garretson, Charles F., Knoxville, Iowa. Dental apparatus. No. 1,402,225; Jan. 3.
- Garretson, Eugene, assignor to Federal Telephone and Telegraph Co., Inc., Buffalo, N. Y. Audibility meter. No. 1,421,355; June 27.
- Garretson, Harry D., New York, N. Y. X-ray system. No. 1,431,578; Oct. 10.
- Garrett, Arthur O., San Diego, and C. E. Funnell and W. L. Hoffman, Los Angeles, Calif. Storage-battery grid. No. 1,408,579; Mar. 7.
- Garrett, Carlton M., et al. (See Garrett, Myers A., assignor.)
- Garrett, Eugene J., Blue Island, Ill. Can-filling apparatus. No. 1,438,483; Dec. 12.
- Garrett, Gairald H., Denver, Colo. Water meter. No. 1,413,980; Apr. 25.
- Garrett Go-Cart and Carriage Company. (See Garrett, S., and Layton, assignors.)
- Garrett, James O., Denver, Colo. Truck brake or lock. No. 1,420,999; June 27.
- Garrett, John E., New Glasgow, Nova Scotia, Canada. Machine for working rugs. No. 1,409,700; Mar. 14.
- Garrett, John M. (See Goessling, F. W., and Garrett.)
- Garrett, Myers A., Chicago, Ill., assignor of one-half to C. D. Pettis and one-half to C. M. Garrett, New York, N. Y. Tank-car dome covers. No. 1,405,577; Feb. 7.
- Garrett, Myers A., assignor to C. M. Garrett, Chicago, Ill. Air moistener and dust arrester. No. 1,426,286; Aug. 15.
- Garrett, Myers A., assignor to C. M. Garrett, Chicago, Ill. Air moistener and dust arrester. No. 1,431,909; Oct. 16.
- Garrett, Ray, Burns City, Ind. Tire pump. No. 1,417,163; May 28.
- Garrett, Richard M., Yonkers, assignor to Nestle's Food Company, New York, N. Y. Box-sealing machine. No. 1,438,994; Dec. 19.
- Garrett, Samuel, and W. P. Layton, assignor to Garrett Go-Cart and Carriage Company, Chicago, Ill. Convertible baby carriage and bassinet. No. 1,437,052; Nov. 28.
- Garrigue, William, & Company, Inc. (See Bodman, John W., assignor.)
- Garrigues, John. (See Kenmouth, Alton S., assignor.)
- Garrison, Benjamin, Morgantown, W. Va. Flexible power transmission. No. 1,428,586; Sept. 12.
- Garrison, Cassius M. (See South, Mahlon C., assignor.)
- Garrison, Earl E. and W. assignors to Mayer & Garrison, Albany, N. Y. Torch. No. 1,433,999; Oct. 31.
- Garrison, Forest L. (See McNiece, Thomas B., assignor.)
- Garrison, Lloyd, Salt Lake City, Utah. Automatic furnace. No. 1,420,091; June 20.
- Garrison, Lloyd, Salt Lake City, Utah. Electrical combination lock. No. 1,433,543; Oct. 31.
- Garrison, Perry J., Oxford, assignor of one-half to W. Reed, Oakland, Mich. Fuel-supply tank. No. 1,411,010; Mar. 28.
- Garrison, Wayne. (See Garrison, Earl E. and W.)
- Garry, Cleus, Griffin, Tex. Oil burner. No. 1,439,306; Dec. 19.
- Garson, Henrik N., New York, N. Y. Spring suspension for motor vehicles and the like. No. 1,412,733; Apr. 11.
- Garson, Henrik N., New York, N. Y. Automobile chassis. No. 1,414,123; Apr. 25.
- Garson, Henrik N. and T. N., New York, N. Y. Automobile chassis. No. 1,438,484; Dec. 12.
- Garson, Thorwald N. (See Garson, Henrik N. and T. N.)
- Garst, Dudley, Waterloo, Iowa. Reversible-seat stool. No. 1,407,403; Feb. 21.
- Garstman, Henry, Yonkers, N. Y. Valve-grinding tool. No. 1,409,844; Mar. 14.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling apparatus. No. 1,435,114; Nov. 7.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Tool handle and making same. No. 1,440,359; Dec. 26.
- Garlan, Stephen L., Toronto, Ontario, Canada. Treatment of petroleum oils. No. 1,430,977; Oct. 3.
- Garlan, Stephen L., Toronto, Ontario, Canada. Apparatus for the treatment of petroleum oils. No. 1,430,978; Oct. 3.
- Garton, John T., Toronto, Ontario, Canada. Floor waxer and polisher. No. 1,432,994; Oct. 24.
- Gartrell, John T., Napavine, Wash. Stump burner. No. 1,413,112; Apr. 18.
- Garver, James L., Springfield, Ohio. Resilient wheel. No. 1,410,177; Mar. 21.

Alphabetical list of patentees—Continued.

- Garver, James L., Springfield, Ohio. Resilient-wheeled vehicle. No. 1,487,800; Dec. 5.
- Garvey, Edward S., Clayton, Mo. Ink and making the same. No. 1,422,957; July 18.
- Garvey, George W., Escanaba, Mich. Stove and furnace. No. 1,410,909; Mar. 28.
- Garvey, Richard, and T. J. Miner, New York, N. Y. Captive aeroplane. No. 1,421,683; July 4.
- Garvey, Thomas, Norfolk, Va. Tent-securing means therefor. No. 1,402,592; Jan. 3.
- Garwitt, Louis, New York, N. Y. Garment. No. 1,431,736; Oct. 10.
- Garwood, Spencer, East Liberty, Ohio. Driving mechanism. No. 1,419,555; June 13.
- Garwood, William C., Dayton, Ohio, and C. P. Weber, Washington, D. C. Air-compression starter. No. 1,405,913; Feb. 7.
- Gary, William P., Totowa Borough, N. J. Aeroplane construction. No. 1,421,934; July 4.
- Gas Research Company, The. (See Smith, Harry F., assignor.)
- Gas Turbine Corporation. (See Harper, William, jr., assignor.)
- Gasau-Thompson Company. (See McKellar, Judson L., assignor.)
- Gaschke, George, assignor to American Platinum Works, Newark, N. J. Adjustable and safety regulating device for hypodermic needles. No. 1,436,707; Nov. 28.
- Gase, Eugene, assignor to Baker-Perkins Manufacturing Corporation, Saginaw, Mich. Traveling weighing machine. No. 1,414,694; May 2.
- Gase, Eugene, assignor to Baker-Perkins Manufacturing Corporation, Saginaw, Mich. Gate control for flour bins. No. 1,419,556; June 13.
- Gase, Eugene, assignor to Baker-Perkins Manufacturing Corporation, Saginaw, Mich. Automatic weighing machine. No. 1,419,557; June 13.
- Gase, George A., Cleveland, Ohio, assignor to The Champion Ice Machine Company. Compressor. No. 1,425,192; Aug. 8.
- Gase, George A., East Cleveland, and E. A. Seymer, Cleveland, Ohio. Refrigerating system. No. 1,429,132; Sept. 12.
- Gaskell, Joseph. (See Pilkington, A. C., and Gaskell.)
- Gaskel, Charles W., Greensburg, Pa. Rail joint. No. 1,425,468; Aug. 8.
- Gaskill, James A., Cleveland, Ohio. Combination double-muffle preheating and heat-treating furnace. No. 1,403,313; Jan. 10.
- Gaskill, James A., Cleveland, Ohio. Furnace. No. 1,417,478; May 23.
- Gaskill, James A., Cleveland, Ohio. Tilting furnace. No. 1,439,409; Dec. 19.
- Gaskill, James C., Fairmont, W. Va. Mine-car bearing and axle. No. 1,408,878; Mar. 7.
- Gaskin, Robert J., and H. M. Tarras, Toronto, Ontario, Canada; said Tarras assignor of one-sixth of his interest to said Gaskin. Evaporative refrigerator. No. 1,406,842; Feb. 14.
- Gaskin, Thomas H., Woodford, England. Reversible boat. No. 1,408,580; Mar. 7.
- Gaskins, Palemon H., Jacksonville, Fla. Lubricating system. No. 1,411,914; Apr. 4.
- Gaskins, Palemon H., Jacksonville, Fla. Lubricating system. No. 1,423,233; Sept. 19.
- Gaskins, Palemon H., Jacksonville, Fla. Lubricating system. No. 1,429,234; Sept. 19.
- Gaskins, Palemon H., Jacksonville, Fla. Lubricating system. No. 1,433,612; Oct. 31.
- Gasoline Products Company. (See Cross, Roy, assignor.)
- Gasoline Recovery Corporation. (See Burrell, G. A., Oberfell, and Voress, assignors.)
- Gasoline Recovery Corporation. (See Voress, C. L., and Canter, assignors.)
- Gass, Elmer J., and D. W. Thurston, Pittsburgh, Pa. Unloading device. No. 1,416,190; May 16.
- Gassaway, Stephen G. (See Parker, T. H., Gassaway and Whitson.)
- Gasser, Joseph, Trenton, N. J. Body raising and lowering mechanism for wagons. No. 1,412,681; Apr. 11.
- Gasser, Joseph, Trenton, N. J. Dump wagon. No. 1,431,942; Oct. 17.
- Gasser, Joseph, Trenton, N. J. Combination high hoist and dump wagon. No. 1,435,836; Nov. 14.
- Gasset, Eduardo, Pontevedra, Spain. Opening device for tins used for preserving food. No. 1,412,175; Apr. 11.
- Gasset, Marie, Ogden, Utah. Magazine powder puff. No. 1,409,370; Mar. 14.
- Gasteiger, Justus A., Dormont, Pa. Pneumatic conveyer. No. 1,417,052; May 23.
- Gasteiner, John, Detroit, Mich. Internal chuck. No. 1,407,145; Feb. 21.
- Gaston, Esprit L., Lyon, France. Manufacture of zinc cups intended for dry cells. No. 1,419,839; June 13.
- Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Covering-thread mechanism for sewing machines. No. 1,403,857; Jan. 17.
- Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Differential feeding mechanism for sewing machines. No. 1,407,023; Feb. 21.
- Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Looper-thread-controlling mechanism for sewing machines. No. 1,408,185; Feb. 28.
- Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Multiple-needle sewing machine. No. 1,410,057; Mar. 21.
- Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Take-up. No. 1,414,352; May 2.
- Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Sewing machine. No. 1,423,205; July 18.
- Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Work-guiding mechanism for sewing machines. No. 1,431,579; Oct. 10.
- Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Thread controller. No. 1,432,683; Oct. 17.
- Gatchell, George S., Roselle Park, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Thread-controlling mechanism for sewing machines. No. 1,439,468; Dec. 19.
- Gateman, W., Mfg. Co. (See Kind, Frederick H., assignor.)
- Gates, Benjamin L., assignor to A. E. Barill, Chicago, Ill. Indicating gauge. No. 1,425,193; Aug. 8.
- Gates, Bernard W., Pleasantville, N. Y. Tape and making same. No. 1,410,745; Mar. 28.
- Gates, De Witt C. (See McConney, Robert B., assignor.)
- Gates, Frederic P. (See Smart, Ezra E., and Gates.)
- Gates, John C., Indianapolis, Ind. Feathering vane windmill. No. 1,403,154; Jan. 10.
- Gates, John E., Rochester, N. Y. Frame for leather bags. No. 1,409,371; Mar. 14.
- Gates, John W., Montreal, Quebec, Canada. Furnace arch. No. 1,404,845; Jan. 31.
- Gates, Leroy G. (See Scharpenberg, C. G., and Gates.)
- Gates, Louis W., assignor to Tunstedt Manufacturing Co., Detroit, Mich. Window regulator. No. 1,405,510; Feb. 7.
- Gates, Louis W., assignor to Ternstedt Manufacturing Co., Detroit, Mich. Window regulator. No. 1,408,879; Mar. 7.
- Gates, Louis W., assignor to C. Cowles & Co., New Haven, Conn. Lock for vehicle doors. No. 1,418,786; June 6.
- Gates, Louis W., assignor to C. Cowles & Company, New Haven, Conn. Locking handle. No. 1,424,245; Aug. 1.
- Gates, Louis W., assignor to C. Cowles and Company, New Haven, Conn. Adjustable escutcheon plate. No. 1,433,946; Oct. 31.
- Gates, Major E., Terra Cotta, Ill. Producing ornamental surfaces. No. 1,427,454; Aug. 29.
- Gates, Major E., Terra Cotta, Ill. Fluid-controlling device. No. 1,427,455; Aug. 29.
- Gates, Quincy A., Wilkes-Barre, Pa. Jar closure. No. 1,438,033; Dec. 5.
- Gates, Sylvester A., Detroit, Mich. Automobile top curtain. No. 1,413,657; Apr. 25.
- Gates, William B., Wilkinsburg, assignor to F. E. Sturgeon, Tarentum, Pa. Mop wringer. No. 1,405,201; Jan. 31.
- Gates, William H., New Haven, Conn. Combination socket wrench. No. 1,428,840; Sept. 12.
- Gathmann, Emil, Baltimore, Md. Ingot mold. No. 1,419,454; June 13.
- Gathmann, Monte B., Shelbyville, assignor to A. Vonnegut, Indianapolis, Ind. Cutter-head spindle for planers and molders. No. 1,406,843; Feb. 14.
- Gatliff, Robert, assignor of one-half to R. R. Reimert, Jr., Miami, Fla. Directory. No. 1,409,894; Mar. 14.
- Gatling, Gladstone D., Gates, N. C. Baby carrier. No. 1,435,115; Nov. 7.
- Gatrell, Orlando C., El Dorado, Kans. Treating oil containing water. No. 1,440,352; Dec. 26.
- Gats, John B., assignor to A. M. Searles, Chicago, Ill. Visor for automobiles. No. 1,430,499; Sept. 26.
- Gattie, Alfred W., London, England. Spring suspension. No. 1,426,178; Aug. 15.
- Gauch, Orlando S., New Haven, Conn. Means for packing printing plates. No. 1,434,605; Nov. 7.
- Gaucher, Albertine, (née Albertine Cerré,) executrix. (See Gaucher, Joseph T. A.)
- Gaucher, Joseph T. A., deceased, by A. Gaucher, (née Albertine Cerré,) executrix, Montreal, Quebec, Canada. Electric clock. No. 1,406,549; Feb. 14.
- Gaudart, Eustache E. R., Paris, France. Extraction of coconut butter. No. 1,431,519; Oct. 10.
- Gaudreau, Alfred E., A. J. Beaulieu, R. J. Gaudreau, and C. D. Gaudreau; said Beaulieu assignor to L. H. Gaudreau, Springfield, Mass. Camp stool. No. 1,408,581; Mar. 7.
- Gaudreau, Alfred E., R. J. C. D., and L. H., Springfield, Mass. Camp stool. No. 1,436,441; Nov. 21.
- Gaudreau, Charles D. (See Gaudreau, A. E., Beaulieu, R. J., and C. D. Gaudreau.)
- Gaudreau, Charles D. (See Gaudreau, Alfred E., R. J., C. D., and L. H.)
- Gaudreau, Leo H. (See Gaudreau, A. E., Beaulieu, R. J., and C. D. Gaudreau, assignors.)
- Gaudreau, Leo H. (See Gaudreau, Alfred E., R. J., C. D., and L. H.)

- Gaudreau, Richard J. (See Gaudreau, A. E., Beaulieu, R. J. and C. D. Gaudreau.)
- Gaudreau, Richard J. (See Gaudreau, Alfred E., R. J., C. D., and L. H.)
- Gauer, William, assignor to Frank Krementz Company, Newark, N. J. Eyeglass-releasing device. No. 1,419,369; June 13.
- Gauger, Frank A., and R. W. Johnson, Milwaukee, Wis. Flash igniter. No. 1,417,510; May 30.
- Gaughan, John J. (See Glidden, A. A., La Fayette, and Gaughan.)
- Gaughan, William P., Stockton, Calif. Lawn broom. No. 1,429,579; Sept. 19.
- Gauldie, Kenneth, Glasgow, Scotland. Bearing. No. 1,421,208; June 27.
- Gaulke, Charles H., Milwaukee, Wis. Slot guard for automobile levers. No. 1,434,813; Nov. 7.
- Gaunt, Charles F., Birmingham, England. Medal-ribbon carrier. No. 1,413,468; Apr. 18.
- Gaunt, Charles F., Birmingham, England. Machine for indenting characters on metal plates or other like articles. No. 1,421,074; June 27.
- Gaunt, Charles F., Birmingham, England. Button. No. 1,432,595; Oct. 17.
- Gaunt, Thomas T., et al. (See Smith, John E., assignor.)
- Gauntt, Warren S., St. Louis, assignor of one-half to E. R. McCormick, Jackson, Mo. Vehicle wheel. No. 1,418,557; June 6.
- Gause, Frederick T., Wilmington, Del. Tire chain. No. 1,434,111; Oct. 31.
- Gauriat, Pierre S., assignor to Etablissements Continsouza (Societe Anonyme), Paris, France. Supporting device for cinematographic apparatus. No. 1,418,640; June 6.
- Gautreaux, Standley, Los Angeles, Calif. Excavating apparatus. No. 1,415,544; May 9.
- Gauthier, Adalard J., assignor to Packard Motor Car Company, Detroit, Mich. Rod and making same. No. 1,415,091; May 9.
- Gauthier, Edmond J. L., Paris, France. Spring suspension for vehicles. No. 1,425,849; Aug. 15.
- Gauthier, Emile, and J. Chabot, Ville St. Pierre, Quebec, Canada. Resilient wheel. No. 1,404,018; Jan. 17.
- Gauthier, Ernest, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Reciprocating-tool-operating machine. No. 1,403,858; Jan. 17.
- Gauthier, Ferdinand, assignor of one-half to H. Piche, Marieville, Quebec, Canada. Rim tool for automobiles. No. 1,410,910; Mar. 28.
- Gautier, Georges, et al. (See Maucalire, Louis, assignor.)
- Gautier, Trevor R., Yonkers, N. Y., assignor, by mesne assignments, to Nashua Gummed & Coated Paper Company, Nashua, N. H. Parcel-post sticker. No. 1,435,519; Nov. 14.
- Gauvin, Henri, assignor to J. J. Leddy and D. Maclean, Saskatoon, Saskatchewan, Canada. Wall or building construction. No. 1,402,593; Jan. 3.
- Gavett, Weston, Plainfield, N. J. Sewage disposal. No. 1,420,250; June 20.
- Gavitt, Arthur W., assignor to A. Stein & Company, Chicago, Ill. Folding machine for fabric blanks. No. 1,420,480; June 20.
- Gawley, Hector, Bellingham, Wash. Water-current power wheel. No. 1,432,327; Oct. 17.
- Gay, Albert H., London, England. Sound box for talking machines. No. 1,418,249; May 30.
- Gay, Albert T., Auburn, Me. Number board. No. 1,414,271; Apr. 25.
- Gay, Ira A., Chicago, Ill., assignor to Backus Novelty Company, Smethport, Pa. Ash tray. No. 1,404,755; Jan. 31.
- Gay, John A. (See McCargar, Elmer E., assignor.)
- Gay, Robert H. (See England, Knut E., assignor.)
- Gay, Robert M., Hanover Township, Morris County, N. J., assignor to Emerick Mill Co., Easton, Pa. Air separator. No. 1,414,636; May 2.
- Gay, Wilson R. (See Kuhn, William O., assignor.)
- Gayley, Henry B., et al., executors. (See Gayley, James.)
- Gayley, James, deceased, New York, N. Y., H. B. Gayley and W. S. Reed being executors. Recovery of potassium values from fumes. No. 1,414,353; May 2.
- Gaylord, William B., Geneva, N. Y. Razor handle. No. 1,403,074; Jan. 10.
- Gayner Pneumatic Company, Limited, The. (See Cleg-horn, Charles A., assignor.)
- Gaynor, James C., Paterson, N. J. Automobile lock. No. 1,436,585; Nov. 21.
- Gaynor, John J., assignor to Meier-Gaynor Manufacturing Co., Indianapolis, Ind. Bottle crowner. No. 1,434,996; Nov. 7.
- Gaynor, Joseph, New York, N. Y. Fastener. No. 1,412,176; Apr. 11.
- Gayter, Eric. (See Drake, T., and Gayter.)
- Gazda, Adolph A., assignor to Kaestner & Hecht Company, Chicago, Ill. Switch. No. 1,425,003; Aug. 8.
- Gazda, Adolph A., Wilkinsburg, Pa. assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,414,403; May 2.
- Gazda, Adolph A., Wilkinsburg, Pa. assignor to Westinghouse Electric and Manufacturing Company Motor-control system. No. 1,425,640; Aug. 15.
- Gazdzicki, Joseph, Cleveland, Ohio, assignor of one-half to M. Zajac, Milno, Poland. Window-cleaning apparatus. No. 1,416,280; May 16.
- Gazlay, Eugene M., Sidnaw, Mich. Wrench. No. 1,438,641; Dec. 12.
- Gearhart, Ralph W., Johnstown, Pa. Sales cabinet for package goods. No. 1,432,284; Oct. 17.
- Gearhart, Ralph W., Johnstown, Pa. Selective sales cabinet. No. 1,432,285; Oct. 17.
- Gearson, Ralph J., Chicago, Ill. Box. No. 1,431,730; Oct. 10.
- Gebert, Albert E. (See Antoine, A. D., and Gebert.)
- Gebhard, Conrad, Munich, Germany, assignor to Firm "Asfag" Aktiengesellschaft, Glarus, Switzerland. Covering device for folding hoods of vehicles. No. 1,415,332; May 9.
- Gebhard, Frank M., Steele, N. Dak. Scale and dirt collector. No. 1,424,197; Aug. 1.
- Gebhardt, Alfred H., Milwaukee, Wis. Mold for battery connectors. No. 1,415,027; May 9.
- Gebhardt, George, Jr., Nashville, Tenn. Counter block for embossing presses. No. 1,411,011; Mar. 28.
- Gebhardt, Mary, Scotia, Nebr. Corset truss. No. 1,438,911; Dec. 12.
- Gebhart, John C., assignor to Keystone Iron & Steel Works, Los Angeles, Calif. Liquid-vending device. No. 1,438,912; Dec. 12.
- Gebr. Siemens & Co. (See Egly, Georg, assignor.)
- Gebriider Biihler. (See von Steiger, Robert, assignor.)
- Geczynski, Samuel, Berlin, Germany. Gripping device for use in connection with table boards. No. 1,432,597; Oct. 17.
- Geddes, Alfred, Bradford, Pa. Pump. No. 1,435,837; Nov. 14.
- Geddes, John H., Waterbury, Conn. Phonograph record. No. 1,423,206; July 18.
- Gedney, Stanley L., Maplewood, N. J. Clasp. No. 1,402,594; Jan. 3.
- Gedvillas, William, Madison, Ill. Animal trap. No. 1,420,833; June 27.
- Gee, George H., Danville, Va. Auto dump truck. No. 1,432,328; Oct. 17.
- Gee, Helen M., Cleveland, Ohio. Pneumatic comb. No. 1,431,943; Oct. 17.
- Gee, James E., London, England. Thermostat. No. 1,419,246; June 13.
- Gee, Norman E., Altoona, Pa. Spring rigging. No. 1,413,399; Apr. 18.
- Geer, Benjamin D., assignor to Lewis-Geer Mfg. Company, Ypsilanti, Mich. Spring support for vehicles. No. 1,417,511; May 30.
- Geer, Harry R., Johnston, Pa. Drilling machine. No. 1,407,059; Feb. 21.
- Geer, Harry R., Johnstown, Pa. Fluid-pressure-controlling valve. No. 1,425,086; Aug. 8.
- Geer, Harry R., Johnstown, Pa. Hydraulic valve. No. 1,435,705; Nov. 14.
- Geer, Maurice F., Irondequoit, assignor to General Railway Signal Company, Rochester, N. Y. Bearing. No. 1,402,349; Jan. 3.
- Geer, William C., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for vulcanizing tires. No. 1,433,683; Oct. 31.
- Geere, Ernest W. (See Geere, William A. and E. W.)
- Geere, William A., Herne Hill, London, and E. W. Geere, Upper Norwood, London, England. Composition of matter for increasing growth of yeast when mixed with dough. No. 1,431,156; Oct. 10.
- Geering, Heinrich. (See Schwiieger, Hedwig, née Kipp, assignor.)
- Geering, John, et al. (See Gould, Herman, assignor.)
- Geese, Jeremiah, Aberdeen, Md. Broom holder. No. 1,407,025; Feb. 21.
- Geffroy, Jules H., and P. Fleury, Paris, France. Machine for cutting spiral bevel gears. No. 1,403,113; Jan. 10.
- Gegauf, Eugen, Steckborn, Switzerland. Hemstitch sewing machine. No. 1,410,467; Mar. 21.
- Geggie, Arthur W., Minneapolis, Minn. Combined sending and return envelope. No. 1,425,004; Aug. 8.
- Gehle, Theodore F. (See Adler, J. B., and Gehle.)
- Gehr, Ray S., Cleveland, Ohio. Door-controlling apparatus. No. 1,408,186; Feb. 28.
- Gehrandt, Gustav R., Oak Park, assignor to International Earth-Boring Machine Corporation, Chicago, Ill. Turntable. No. 1,409,372; Mar. 14.
- Gehrre, Fred W., Chicago, Ill. Alcohol heater. No. 1,421,209; June 27.
- Gehret, Samuel P., York, P. Latch. No. 1,415,871; May 16.
- Gehrett, Walter P., San Francisco, Calif., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,429,336; Sept. 19.
- Gehrke, Emil A. (See Gehrke, Ewald C. and E. A.)
- Gehrke, Ewald C. and E. A., Chelan, Wash. Cold-weather starter for motor-driven vehicles. No. 1,419,840; June 13.
- Gehrlich, Earl G., Fountain City, Wis. Demountable rim. No. 1,431,885; Oct. 10.
- Gehrs, Walter G. (See Alexander, J. E., and Gehrs.)
- Geib, William P. (See Richards, George W., assignor.)
- Geier, P. A., Company. (See Robertson, Frank E., assignor.)
- Geiger, Adolph, Rochester, N. Y. Nail-extracting machine. No. 1,432,847; Oct. 24.
- Geiger, Benjamin F., Oskaloosa, Kans. Tire-chain tightening and releasing tool. No. 1,411,884; Apr. 4.

Alphabetical list of patentees—Continued.

- Geiger, Charles M., assignor of one-half to A. L. Flynn, New York, N. Y. Motor-driven handsaw. No. 1,417,726; May 30.
- Geiger, David F. (See Cole, A. D., and Geiger.)
- Geiger, David F., assignor of one-third to A. D. Cole, Minneapolis, Minn. Hitch for tractors. No. 1,417,373; May 23.
- Geiger, Ira D., Essington, Pa. Fluid motor. No. 1,434,336; Oct. 31.
- Geiger, Joseph, assignor of one-third to F. J. Marter and one-third to F. Snell, Steelton, Pa. Coke-oven-wall construction. No. 1,433,450; Oct. 24.
- Geiger, Mary E., Waukesha, Wis. Shortening mixer. No. 1,417,985; May 30.
- Geiger, Paul N., Massillon, Ohio. Shaft coupling. No. 1,429,580; Sept. 19.
- Geiger, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand brake. No. 1,403,155; Jan. 10.
- Geiger, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Antifriction bearing. No. 1,405,681; Feb. 7.
- Geiger, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Coupling attachment. No. 1,407,939; Feb. 28.
- Geiger, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Coupling-release mechanism. No. 1,429,235; Sept. 19.
- Geiger, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,429,581; Sept. 19.
- Geiger, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,438,303; Dec. 12.
- Geigle, Emanuel M., Baldwin, N. D. Cattle poke. No. 1,411,081; Mar. 28.
- Geilear, George W., Brockton, Mass. Tractor. No. 1,436,088; Nov. 21.
- Geimer, Anthony P., assignor to The Hamilton Manufacturing Company, Two Rivers, Wis. Tray. No. 1,436,954; Nov. 28.
- Geis, Leopold H., Mount Arlington, N. J., assignor to New York Mackintosh Clothing Co., New York, N. Y. Rain cape. No. 1,423,315; July 18.
- Geisendorfer, John F., Sacramento, Calif. Cooker. No. 1,419,670; June 13.
- Geisendorfer, John F., Sacramento, Calif. Heating system for motor cars. No. 1,425,377; Aug. 8.
- Geisenhöner, Henry, Schenectady, N. Y., assignor to General Electric Company. Electrical heating apparatus. No. 1,406,550; Feb. 14.
- Geisenhöner, Henry, Schenectady, N. Y., assignor to General Electric Company. Electrical heating apparatus. No. 1,406,551; Feb. 14.
- Geiser, John E., Neodesha, Kans., and W. A. Robison, York, Pa. Chain tightener and hook. No. 1,436,495; Nov. 21.
- Geisler, Kurt M., Hackensack, N. J. Electrical engine. No. 1,436,245; Nov. 21.
- Geissenhainer, Frederick W. (See Cumner, M. S., and Geissenhainer.)
- Geisser, George J., Helena, Mont. Flushing device for toilets. No. 1,403,762; Jan. 17.
- Geissinger, Harry G., New York, N. Y., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Controlling mechanism for car-heating systems. No. 1,404,359; Jan. 24.
- Geissinger, Harry G., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Heating system for railway trains. No. 1,415,872; May 16.
- Geissinger, Harry G., New York, N. Y., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Automatically-controlled car-heating system. No. 1,439,362; Dec. 19.
- Geist, Carlton. (See Wiederwax, Robert W., assignor.)
- Geist, Harry F., Hartsville, S. C. Magneto. No. 1,428,083; Sept. 5.
- Geist Manufacturing Company. (See Wiederwax, Robert W., assignor.)
- Geist, Sidney R., New York, N. Y. Tag. No. 1,426,853; Aug. 22.
- Geist, Walter, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Conveyor. No. 1,404,692; Jan. 24.
- Geist, Walter, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Conveyor. No. 1,433,366; Oct. 24.
- Gelb, Nathan, Newark, N. J. Sanitary mouthpiece. No. 1,425,958; Aug. 15.
- Geldermann, Hugo, and F. Meyer, Dessau, Anhalt, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Azo dye. No. 1,411,245; Mar. 28.
- Gelders Manufacturing Company. (See Lincoln, Purd J., assignor.)
- Geldhof, Peter E. (See Spencer, J. B., and Geldhof.)
- Gelfond, Louis, Newport News, Va. Spring wheel. No. 1,420,251; June 20.
- Gelin, Charles A., assignor to W. C. Lewis, Chicago, Ill. Journal packing. No. 1,423,207; July 18.
- Gell, Albert E., Sydney, New South Wales, Australia. Reclining adjustable chair and seat. No. 1,414,637; May 2.
- Gelm, George E., Jamestown, N. Y. Torpedo for blasting purposes. No. 1,406,844; Feb. 14.
- Gelnaw, John F., Cleveland, Ohio. Identification and coding system. No. 1,423,763; July 25.
- Gelpke, Victor, Luzern, Switzerland, assignor to Deutsche Evaporator-Aktien-Gesellschaft, Berlin, Wilmersdorf, Germany. Kiln with heating chambers and cooling chambers. No. 1,426,287; Aug. 15.
- Gemmell, James A., Tugaskie, Saskatchewan, Canada. Shirt protector. No. 1,433,198; Oct. 24.
- Genaille, Alexandre, assignor to Cartier, Inc., New York, N. Y. Bracelet. No. 1,419,370; June 13.
- Gendall, John S., Woodmont, Conn. Safety swivel for cables. No. 1,404,197; Jan. 24.
- Gendall, John S., Woodmont, Conn. Jibbing buffer. No. 1,433,199; Oct. 24.
- Gendarme, Toussaint, assignor to Societe Anonyme John Cockerill, Seraing, Belgium. Apparatus for regulating the supply of explosive mixture to gas engines. No. 1,426,854; Aug. 22.
- Gendel, Harry, assignor to A. M. Docter, Chicago, Ill. Outer garment. No. 1,405,405; Feb. 7.
- Gendron, Aimé, Montreal, and C. Brière, Beauharnois, Quebec, Canada. Crank-holding attachment. No. 1,424,894; Aug. 8.
- Gendron Wheel Co., The. (See Nauts, Frank A., assignor.)
- General Abrasive Company. (See Richmond, H. A., and Macdonald, assignors.)
- General Aluminum & Brass Mfg. Co. (See Eggenweiler, Charles W., assignor.)
- General American Tank Car Corporation. (See Nelson, Axel M., assignor.)
- General American Tank Car Corporation. (See Weaver, Robert R., assignor.)
- General Automatic Scale Company, The. (See Schaper, Henry C., assignor.)
- General Bond and Share Company. (See Stevenson, Earl P., assignor.)
- General Chain Company. (See Rafferty, William V., assignor.)
- General Chemical Company. (See Allen, Frank M., assignor.)
- General Chemical Company. (See Briggs, Thomas L., assignor.)
- General Dental Mfg. Co. (See Sibley, A. H., and Van Allen, assignors.)
- General Electric Company. (See Abbott, Charles C., assignor.)
- General Electric Company. (See Alexanderson, Ernst F. W., assignor.)
- General Electric Company. (See Allen, Joseph H., assignor.)
- General Electric Company. (See Armor, James C., assignor.)
- General Electric Company. (See Axtell, Clinton J., assignor.)
- General Electric Company. (See Baldwin, Henry S., assignor.)
- General Electric Company. (See Barringer, Laurence E., assignor.)
- General Electric Company. (See Batchelder, Asa F., assignor.)
- General Electric Company. (See Beman, Ralph, assignor.)
- General Electric Company. (See Benford, Frank A., assignor.)
- General Electric Company. (See Bergman, Sven R., assignor.)
- General Electric Company. (See Beverage, Harold H., assignor.)
- General Electric Company. (See Bliss, Elmer F., assignor.)
- General Electric Company. (See Bobst, Alfred E., assignor.)
- General Electric Company. (See Bower, George W., assignor.)
- General Electric Company. (See Bradbury, Burke, assignor.)
- General Electric Company. (See Brooks, Alfred A., assignor.)
- General Electric Company. (See Brooks, Wallace L., assignor.)
- General Electric Company. (See Burnham, Joseph L., assignor.)
- General Electric Company. (See Burrows, William R., assignor.)
- General Electric Company. (See Byles, Frank A., assignor.)
- General Electric Company. (See Cammen, Leon, assignor.)
- General Electric Company. (See Clough, Frederic H., assignor.)
- General Electric Company. (See Collins, Edgar F., assignor.)
- General Electric Company. (See Connely, Charles B., assignor.)
- General Electric Company. (See Coolidge, William D., assignor.)
- General Electric Company. (See Craighead, James R., assignor.)
- General Electric Company. (See Crocker, Irving S., assignor.)
- General Electric Company. (See Dantsizen, Christian, assignor.)
- General Electric Company. (See Dickinson, Edgar D., assignor.)
- General Electric Company. (See Doran, John H., assignor.)

- General Electric Company. (See Drohan, Thomas E., assignor.)
 General Electric Company. (See Dunning, Parker, assignor.)
 General Electric Company. (See Dwyer, William O., assignor.)
 General Electric Company. (See Eaton, John, assignor.)
 General Electric Company. (See Eby, Eugene D., assignor.)
 General Electric Company. (See Edwards, William, assignor.)
 General Electric Company. (See Etter, Rolland R., assignor.)
 General Electric Company. (See Faccioli, Giuseppe, assignor.)
 General Electric Company. (See Filkins, Charles D., assignor.)
 General Electric Company. (See Forsberg, Peter W., assignor.)
 General Electric Company. (See Frank, John J., assignor.)
 General Electric Company. (See Friederich, Ernst, assignor.)
 General Electric Company. (See Geisenhöner, Henry, assignor.)
 General Electric Company. (See Gillan, John F., assignor.)
 General Electric Company. (See Gilson, Emery G., assignor.)
 General Electric Company. (See Giroux, Carl H., assignor.)
 General Electric Company. (See Goldsmith, Alfred N., assignor.)
 General Electric Company. (See Guay, Emile J., assignor.)
 General Electric Company. (See Hall, Chester I., assignor.)
 General Electric Company. (See Halliwell, Reginald F., assignor.)
 General Electric Company. (See Halvorson, Cromwell, A. B., Jr., assignor.)
 General Electric Company. (See Hartman, Noble W., assignor.)
 General Electric Company. (See Hawkins, Laurence A., assignor.)
 General Electric Company. (See Haworth, Lawrence A., assignor.)
 General Electric Company. (See Heisler, Charles L., assignor.)
 General Electric Company. (See Hendricks, Allan B., Jr., assignor.)
 General Electric Company. (See Horstkotte, Edward H., assignor.)
 General Electric Company. (See Hotaling, G., and Coolidge, assignors.)
 General Electric Company. (See Howell, Fred B., assignor.)
 General Electric Company. (See Huber, Herman J. H., assignor.)
 General Electric Company. (See Huggins, George C., assignor.)
 General Electric Company. (See Ives, Charles A., assignor.)
 General Electric Company. (See Jones, Benjamin W., assignor.)
 General Electric Company. (See Junggren, Oscar, assignor.)
 General Electric Company. (See Kellogg, E. W., and Rice, assignors.)
 General Electric Company. (See Kellogg, Edward W., assignor.)
 General Electric Company. (See Kierstead, Friend H., assignor.)
 General Electric Company. (See Kirke, Wallace B., assignor.)
 General Electric Company. (See Knoderer, Homer G., assignor.)
 General Electric Company. (See Laise, Clemens A., assignor.)
 General Electric Company. (See Langmuir, Irving, assignor.) (Reissue.)
 General Electric Company. (See Laycock, Harry A., assignor.)
 General Electric Company. (See Lely, Dirk, jr., assignor.)
 General Electric Company. (See Lenher, V., and Dorsey, assignors.)
 General Electric Company. (See Lennox, John S., assignor.)
 General Electric Company. (See Macloskie, G., and Ives, assignors.)
 General Electric Company. (See Macloskie, George, assignor.)
 General Electric Company. (See Macmillan, Campbell, assignor.)
 General Electric Company. (See Mapelsden, H. H., and Bullock, assignors.)
 General Electric Company. (See Martin, J., and Clough, assignors.)
 General Electric Company. (See Mathieu, Joseph X., assignor.)
 General Electric Company. (See McKay, John A., assignor.)
 General Electric Company. (See McLain, Robert H., assignor.)
 General Electric Company. (See McNairy, Jacob W., assignor.)
 General Electric Company. (See Merrill, Wilbur L., assignor.)
 General Electric Company. (See Mitchell, L. E., and White, assignors.)
 General Electric Company. (See Mittag, Albert H., assignor.)
 General Electric Company. (See Moody, Walter S., assignor.)
 General Electric Company. (See Moss, Sanford A., assignor.)
 General Electric Company. (See Murphy, Edwin J., assignor.)
 General Electric Company. (See Noble, Paul O., assignor.)
 General Electric Company. (See O'Neil, James A., assignor.)
 General Electric Company. (See Ortiz, Anselmo, assignor.)
 General Electric Company. (See Pacz, Aladar, assignor.)
 General Electric Company. (See Patch, James W., assignor.)
 General Electric Company. (See Payne, John H., jr., assignor.)
 General Electric Company. (See Place, Claude W., assignor.)
 General Electric Company. (See Pritchard, Franklin H., assignor.)
 General Electric Company. (See Reichold, Ludwig, assignor.)
 General Electric Company. (See Reist, Henry G., assignor.)
 General Electric Company. (See Rice, Chester S., assignor.)
 General Electric Company. (See Rice, Richard H., assignor.)
 General Electric Company. (See Rogers, Harold W., assignor.)
 General Electric Company. (See Rolph, Thomas W., assignor.)
 General Electric Company. (See St. Clair, Byron W., assignor.)
 General Electric Company. (See Shaifer, Charles W., assignor.)
 General Electric Company. (See Shand, Robert, assignor.)
 General Electric Company. (See Shivers, Paul F., assignor.)
 General Electric Company. (See Smith, Arthur R., assignor.)
 General Electric Company. (See Sohlberg, Erik G., assignor.)
 General Electric Company. (See Spurck, Robert M., assignor.)
 General Electric Company. (See Stalberg, Sven, assignor.)
 General Electric Company. (See Steck, Robert, assignor.)
 General Electric Company. (See Steenstrup, Christian, assignor.)
 General Electric Company. (See Stevens, Harry M., assignor.)
 General Electric Company. (See Tang, Bernhard, assignor.)
 General Electric Company. (See Taylor, H. W., Clough, and Whitaker, assignors.)
 General Electric Company. (See Taylor, Henry W., assignor.)
 General Electric Company. (See Thompson, Louis W., assignor.)
 General Electric Company. (See Treanor, Edward D., assignor.)
 General Electric Company. (See Tritle, John F., assignor.)
 General Electric Company. (See Tuttle, James N., assignor.)
 General Electric Company. (See Unger, Magnus, assignor.)
 General Electric Company. (See Up, John W., assignor.)
 General Electric Company. (See Van Brunt, Charles, assignor.)
 General Electric Company. (See Van Keuren, William L., assignor.)
 General Electric Company. (See Warren, Henry E., assignor.)
 General Electric Company. (See Webster, Samuel T., assignor.)
 General Electric Company. (See Weintraub, Ezechiel, assignor.)
 General Electric Company. (See West, John W., assignor.)
 General Electric Company. (See White, William C., assignor.)
 General Electric Company. (See Wilkinson, J., and Dickinson, assignors.)
 General Electric Company. (See Wilkinson, James, assignor.)
 General Electric Company. (See Wood, James J., assignor.) (Reissue.)
 General Electric Company. (See Wright, John D., assignor.)
 General Electric Company. (See Wulff, Louis, assignor.)
 General Electric Company. (See Young, Arthur P., assignor.)

Alphabetical list of patentees—Continued.

- General Electric Company. (See Zabel, W. P., and Reakes, assignors.)
 General Fire Extinguisher Company. (See Barrows, George S., assignor.)
 General Fire Extinguisher Company. (See Duley, Harley H., assignor.)
 General Fire Extinguisher Company. (See Kennedy, W. A., and Loepsinger, assignors.)
 General Fire Extinguisher Company. (See Knight, Ira W., assignor.)
 General Fire Extinguisher Company. (See Loepsinger, Albert J., assignor.)
 General Fire Extinguisher Company. (See Meadowcraft, John R., assignor.)
 General Fuel Apparatus Corporation. (See Hoffman, William M., assignor.)
 General Lead Batteries Company. (See Andreae, Edward F., assignor.)
 General Machine and Manufacturing Company, The. (See Anderson, John M. S., assignor.)
 General Machine & Manufacturing Co., The. (See Hjorth, David, assignor.)
 General Motors Corporation. (See Blackmore, Lloyd, assignor.)
 General Motors Corporation. (See Bull, Arthur A., assignor.)
 General Motors Corporation. (See Byrne, Charles F. S., assignor.)
 General Motors Corporation. (See Collins, Richard H., assignor.)
 General Motors Corporation. (See Covi, John B., assignor.)
 General Motors Corporation. (See Denyes, Harry M., assignor.)
 General Motors Corporation. (See Farr, Warren H., assignor.)
 General Motors Corporation. (See Forbes, Kingston, assignor.)
 General Motors Corporation. (See Goodwin, Edward W., assignor.)
 General Motors Corporation. (See Graham, George M., assignor.)
 General Motors Corporation. (See Hamilton, Alexander C., assignor.)
 General Motors Corporation. (See Hanneman, Fred W., assignor.)
 General Motors Corporation. (See Hannum, George H., assignor.)
 General Motors Corporation. (See Krotz, Alvaro S., assignor.)
 General Motors Corporation. (See Lea, John M., assignor.)
 General Motors Corporation. (See Mason, Arthur C., assignor.)
 General Motors Corporation. (See Meyers, John M., assignor.)
 General Motors Corporation. (See Perlman, Louis H., assignor.)
 General Motors Corporation. (See Schutt, Duny A., assignor.)
 General Motors Corporation. (See Seaholm, E. W., and Parker, assignors.)
 General Motors Corporation. (See Seaholm, Ernest W., assignor.)
 General Motors Corporation. (See Short, Charles R., assignor.)
 General Motors Corporation. (See Sturt, A. T., and Whitacre, assignor.)
 General Motors Corporation. (See Sturt, Alfred T., assignor.)
 General Motors Corporation. (See Tresslar, Guy D., assignor.)
 General Motors Corporation. (See White, John W., assignor.)
 General Motors Corporation. (See Whitten, Frank A., assignor.)
 General Norit Company Limited. (See Wijnberg, Abraham, assignor.)
 General Oil Gas Corporation. (See Dayton, Walter C., assignor.)
 General Optical Company. (See Clement, Hans, assignor.)
 General Optical Company. (See Wittel, Otto, assignor.)
 General Ordnance Corporation. (See Denning, Joseph M., assignor.) (Reissue.)
 General Petroleum Corporation. (See Dickey, Samuel J., assignor.)
 General Petroleum Corporation. (See Prutzman, Paul W., assignor.)
 General Phonograph Manufacturing Company, The. (See Manson, Ray H., assignor.)
 General Phonograph Manufacturing Company, The. (See Valiquet, Louis P., assignor.)
 General Railway Signal Company. (See Dodgson, Frank L., assignor.)
 General Railway Signal Company. (See Geer, Maurice F., assignor.)
 General Railway Signal Company. (See Howe, Winthrop K., assignor.)
 General Railway Signal Company. (See Lindner, John C., assignor.)
 General Railway Signal Company, The. (See Richmond, Carl A., assignor.)
 General Railway Signal Company. (See Wight, Sedwick N., assignor.)
 General Research Laboratories. (See Moisant, Alfred J., assignor.)
 General Rubber Company. (See Bradley, C. E., and Coffin, assignors.)
 General Rubber Company. (See Hopkinson, Ernest, assignor.)
 General Seamless Tube Company. (See Brinkman, Louis H., assignor.)
 General Tire and Rubber Company, The. (See Denmire, Harold A., assignor.)
 General Tire & Rubber Company, The. (See O'Neil, William, assignor.)
 General Tire and Rubber Company, The. (See Pushee, Harold B., assignor.)
 General Tool & Manufacturing Company. (See Brayshaw, Bertie, assignor.)
 General Tube Company. (See Leezenbaum, Isadore, assignor.)
 Genest, Joseph W. (See Bergeron, J. A. C., and Genest.)
 Genesey Electric Lantern Company. (See Genesey, Paul, assignor.)
 Genesey, Paul, Ogden, Utah, assignor to Genesey Electric Lantern Company. Railway lantern. No. 1,410,671; Mar. 28.
 Genett, Louis J., assignor of one-half to J. M. Longyear, Jr., Marquette, Mich. Piston-ring compressor. No. 1,414,014; Apr. 25.
 Genett, Louis J., assignor of one-half to J. M. Longyear, Jr., Marquette, Mich. Valve-spring lifter. No. 1,431,731; Oct. 10.
 Geneva Heater Company. (See Olson, Charles A., assignor.)
 Genin, John B., St. Albans, Vt. Automatic train-pipe coupling. No. 1,437,645; Dec. 5.
 Genn, John E., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Control board for motor vehicles. No. 1,439,511; Dec. 19.
 Gennette, Philip, Aurora, Kans. Motor fan. No. 1,419,841; June 13.
 Genovese, Rosario, New York, N. Y. Toy flying machine. No. 1,415,333; May 9.
 Gensecke, Wilhelm. (See Josse, E., and Gensecke.)
 Gensecke, Wilhelm, Bad Homburg, Germany. Evaporating liquors and apparatus therefor. No. 1,425,005; Aug. 8.
 Gensecke, Wilhelm, Homburg von der Hohe, assignor to Berliner, Actiengesellschaft fur Eisengiesserei und Maschinenfabrikation, Charlottenburg, near Berlin, Germany. Piston drive for compressors. No. 1,435,224; Nov. 14.
 Genter, Albert L., Salt Lake City, Utah, assignor to United Filters Corporation, New York, N. Y. Filtering apparatus. No. 1,405,406; Feb. 7.
 Genth, Frederick J., New York, N. Y. Drawer pull. No. 1,437,509; Dec. 5.
 Gentile, Antonio, et al. (See Gentile, Louis, assignor.)
 Gentile, Jasper A., et al. (See Gentile, Louis, assignor.)
 Gentile, John, et al. (See Gentile, Louis, assignor.)
 Gentile, Joseph, et al. (See Gentile, Louis, assignor.)
 Gentile, Joseph, Brooklyn, N. Y. Clamp. No. 1,407,650; Feb. 21.
 Gentile, Joseph, Brooklyn, N. Y. Hose clamp. No. 1,416,012; May 16.
 Gentile, Joseph, Brooklyn, N. Y. Gas fixture. No. 1,424,351; Aug. 1.
 Gentile, Louis, assignor of one-sixth to J. A. Gentile, one-sixth to A. Gentile, one-sixth to J. Gentile, one-sixth to R. Gentile, and one-sixth to J. Gentile, Kenosha, Wis. Display rack. No. 1,408,187; Feb. 28.
 Gentile, Pasquale, and A. Del Gindice, Youngstown, Ohio. Toy. No. 1,426,375; Aug. 22.
 Gentile Ralph, et al. (See Gentile, Louis, assignor.)
 Gentine, Howard I., assignor to American Atomized Fuel Company, Shelbyville, Ill. Pulverized-fuel feeder and mixer. No. 1,419,730; June 13.
 Gentrup, Bernhard, Halle-on-the-Saale, Germany. Damper for flues and the like. No. 1,413,469; Apr. 18.
 Gentry, Bert C., and G. R. Hoffman, said Hoffman assignor to H. A. Dewez, St. Louis, Mo. Attachment for planetary transmissions. No. 1,419,371; June 13.
 Gentry, Jesse T., Lebanon Junction, Ky. Car-axle anchor. No. 1,429,582; Sept. 19.
 Gentry, Oliver H., Rochester, N. Y. Sewing-machine attachment. No. 1,409,049; Mar. 7.
 Gentzel, Perry H., Newton, Mass. Water-level indicator for boilers. No. 1,405,832; Feb. 7.
 Gentzel, Perry H., Newton, Mass. Throttle valve. No. 1,405,833; Feb. 7.
 Gentzel, Perry H., Newton, Mass. Bearing clamp for engine shafts. No. 1,410,058; Mar. 21.
 Gentzel, Perry H., Newton, Mass. Air-compressor control. No. 1,410,911; Mar. 28.
 Genung, George J., Beaver Falls, and W. L. Welsh, New Brighton, Pa. Sand toy. No. 1,417,512; May 30.
 Geoghegan, John T., Chicago, Ill., assignor to American Car and Foundry Company, New York, N. Y. Car-door-operating mechanism. No. 1,432,240; Oct. 17.
 Geometric Tool Co., The. (See Breitenstein, Albert F., assignor.)
 George, Coy, Blytheville, Ark. Internal-combustion engine. No. 1,432,596; Oct. 17.

- George Cutter Company. (See Ashinger, Herman H., assignor.)
- George, Edgar C., Norwood, Ohio, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Flanged article. (Reissue.) No. 15,429; Aug. 8.
- George, Edgar H., et al. (See Howard, George, assignor.)
- George, Eleanor V. (See Ladd, Earnest W., assignor.)
- George, Enoch, Jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Coupling operating mechanism. No. 1,417,598; May 30.
- George, Enoch, Jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Coupling-controlling mechanism. No. 1,439,731; Dec. 26.
- George, Enoch, Jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Coupling-operating mechanism. No. 1,439,732; Dec. 26.
- George, Enoch, Jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Coupling-centering mechanism. No. 1,439,733; Dec. 26.
- George, Frank L., Los Angeles, Calif. Combination balance-rail pin and key for pianos. No. 1,403,401; Jan. 10.
- George, Frederick H., Washington, D. C. Hatpin protector. No. 1,425,194; Aug. 8.
- George, Harry C., Morris Township, Morris County, N. J., assignor to Arrowsmith Manufacturing Company, Morristown, N. J. Adjustable insole. No. 1,418,250; May 30.
- George, Jerome R., assignor to Morgan Construction Company, Worcester, Mass. Gas producer. No. 1,406,637; Feb. 14.
- George, John H., assignor to Hawthorne Manufacturing Company, Inc., Bridgeport, Conn. Electric switch. No. 1,411,620; Apr. 4.
- George, Philip R., Chicago, Ill. Pen and pencil grip. No. 1,411,691; Apr. 4.
- George, Rugar E. (See Griffin, M. N., and George.)
- George, Russell D., Boulder, Colo. Cracking oils. No. 1,420,832; June 27.
- George, Spiro, Milwaukee, Wis. Rail splice. No. 1,415,545; May 9.
- George, William C., Clatonia, and F. N. Nofsger, Humboldt, Nebr. Wheel hub. No. 1,429,501; Sept. 19.
- George, William H., assignor to The Dexter Company, Fairfield, Iowa. Gearing. No. 1,419,247; June 13.
- Georger, Clifford H., Buffalo, N. Y. Vehicle signal. No. 1,410,670; Mar. 28.
- Gephart, Frank C., assignor to Huyler's, New York, N. Y. Candy making. No. 1,427,527; Aug. 29.
- Geraci, Giacomo, New Orleans, La. Collapsible crate. No. 1,432,454; Oct. 17.
- Geraerds, William, New York, N. Y. Fireproof wall. No. 1,427,372; Aug. 29.
- Geraghty, John P., Jersey City, N. J. Locking device for automobiles. No. 1,421,684; July 4.
- Gerard, Julian M. (See Masson, Henry J., assignor.)
- Gerard, Roy H., Detroit, Mich., assignor to Morgan & Wright. Mixing machine. No. 1,418,641; June 6.
- Gerard, Roy H., Detroit, Mich., assignor to Morgan & Wright. Mixing machine. No. 1,418,642; June 6.
- Gerau, George B., Miami, Fla. Internal-combustion engine. No. 1,417,727; May 30.
- Gerbaud, Charles E., Paris, France. Spark-plug mold. No. 1,439,667; Dec. 19.
- Gerbehaye, Jules, Tirlemont, Belgium. Typewriting machine. No. 1,406,845; Feb. 14.
- Gerbel, Erich, Mannheim, Germany. Machine for working up ceramic masses into tiles, disks, and similar bodies. No. 1,420,093; June 20.
- Gerben, Charles, New York, N. Y. Automobile lock. No. 1,433,269; Oct. 24.
- Gerben, Charles, New York, N. Y. Automobile lock. No. 1,433,267; Oct. 24.
- Gerber, Charles, assignor to J. Bienenfeld, Paris, France. Paint paste. No. 1,405,109; Jan. 31.
- Gerber, John, Carlstadt, N. J. Extension table. No. 1,431,886; Oct. 10.
- Gerber, Ralph, Raymond, Wash. Differential locking mechanism. No. 1,437,510; Dec. 5.
- Gerdeman, Frank H., Findlay, Ohio. Adjustable draft means. No. 1,429,729; Sept. 19.
- Gerdes, Hermann S., Bremen, Germany. Nondusting germ-killing lime-nitrogen manure and making same. No. 1,405,202; Jan. 31.
- Gereke-Allen Carton Company. (See Gereke, Edward G., assignor.) (Reissue.)
- Gereke, Edward G., assignor to Gereke-Allen Carton Company, St. Louis, Mo. Folding box. (Reissue.) No. 15,453; Sept. 12.
- Gereke, Edward G., St. Louis, Mo. Folding cardboard box. No. 1,437,511; Dec. 5.
- Gereke, Edward G., St. Louis, Mo. Baking utensil. No. 1,437,512; Dec. 5.
- Gerhard, Karl F., Hatton, Wash. Pump. No. 1,432,848; Oct. 24.
- Gerhart, Harvey F., Philadelphia, Pa. Automatic brake mechanism. No. 1,417,241; May 23.
- Gerken, Heinrich W., Wandsbek, Germany. Gear for well pumps. No. 1,423,102; July 18.
- Gerlach, Fred, et al., trustees. (See Cameron, William W., assignor.)
- Gerleman, Oscar W. (See Swanson, Swan J., assignor.)
- Gerling, Frederick A., Silver City, assignor of one-fourth to D. D. Long and one-fourth to R. Richardson, Boise, Idaho. Revolving air compressor. No. 1,408,188; Feb. 28.
- Gerling, Frederick, Silver City, assignor of one-fourth to D. D. Long and one-fourth to R. Richardson, Boise, Idaho. Revolving compressor. No. 1,435,462; Nov. 14.
- Gerlanger, Carl F., Dallas, Oreg. Lumber carrier. No. 1,422,958; July 18.
- Germain Brothers Company. (See Cowles, George C., assignor.)
- Germain, John T., Brainerd, Minn. Feed mechanism for seeders. No. 1,411,778; Apr. 4.
- German, Alexander, Akron, Ohio. Core for forming automobile tires. No. 1,427,528; Aug. 29.
- German, Elmer J. (See Peiffer, John M., assignor.)
- Germani, Bernard F., Seattle, Wash. Liquid container. No. 1,422,559; July 11.
- Germann, Albert, and E. Lang, St. Gallen, Switzerland. Mudguard for wheels of vehicles. No. 1,415,436; May 9.
- Germond, Henry S., Jr., Bayonne, assignor to Revolver Company, Jersey City, N. J. Portable elevator. No. 1,406,638; Feb. 14.
- Germontprez, John A., Detroit, Mich. Valve tappet. No. 1,402,226; Jan. 3.
- Germontprez, John A., Detroit, Mich., assignor to F. H. Stanwood, Chicago, Ill. Dustguard for drag links and the like. No. 1,439,883; Dec. 26.
- Gernandt Motor Corporation. (See Gernandt, Waldo G., assignor.)
- Gernandt, Waldo G., assignor to Gernandt Motor Corporation, Chicago, Ill. Two-cycle quick-combustion engine. No. 1,411,012; Mar. 28.
- Gerojohn, Benjamin K., Princeton, N. J. Can holder. No. 1,428,430; Sept. 5.
- Gerome, John A., Kitchener, Ontario, Canada. Tire. No. 1,412,682; Apr. 11.
- Gerosa, Anthony, New York, N. Y., assignor to W. F. Hudson, Philadelphia, Pa. Spring brush for timers. No. 1,419,039; June 6.
- Gerosa, Carl N., Augusta, Ga. Mud hook. No. 1,421,452; July 4.
- Gerrard, Alec J. (See Hatch, Edward, assignor.) (Reissue.)
- Gerrard, Alec J., Chicago, Ill. Wire tying or twisting machine. No. 1,408,936; Mar. 7.
- Gerrard, Alec J., and P. Wright, Chicago, Ill. Wire-tying machine. No. 1,405,110; Jan. 31.
- Gerrard, Alec J., and P. Wright, Chicago, Ill. Wire tensioning and twisting machine. No. 1,425,850; Aug. 15.
- Gerrick, Joseph, et al. (See Treisch, William H., assignor.)
- Gerrie, Harry R., Montreal, Quebec, Canada. Tire carrier. No. 1,419,965; June 20.
- Gersdorff, Franz. (See Cayer, J. L., and Gersdorff.)
- Gerson, Louis J., Palisades, assignor of one-half to F. W. Wood, New York, N. Y. Metal knockdown phonograph horn and making the same. No. 1,403,314; Jan. 10.
- Gerson, Louis J., Palisades, assignor of one-half to F. W. Wood, New York, N. Y. Motor-supporting board. No. 1,413,213; Apr. 18.
- Gerson, Max J., Birmingham, Ala. Reinforcing bar for concrete. No. 1,404,198; Jan. 24.
- Gerson, Morris, Duluth, Minn. Apparatus for making receptacles. No. 1,419,248; June 13.
- Gerson, Nikolaus, assignor to A. Mecky Company, Philadelphia, Pa. Handle-bar grip. No. 1,409,142; Mar. 7.
- Gerstenberger, Henry L., Roselle, N. J., assignor to Standard Oil Company, New York, N. Y. Metallic drum. No. 1,413,907; Apr. 25.
- Gerstner, Harry H., Dayton, Ohio. Talking-machine disk-record cabinet. No. 1,422,959; July 18.
- Gervais, Wainwright-B., Oak Park, assignor to Variety Fire Door Company, Chicago, Ill. Ventilated fire door. No. 1,427,282; Aug. 29.
- Gesas, Michael, trustee. (See Sheras, Morris, assignor.)
- Gesellschaft für Maschinelle Druckentwässerung mit beschränkter Haftung. (See Brune, H., and Horst, assignors.)
- Gesellschaft für Maschinelle Druckentwässerung mit beschränkter Haftung. (See Horst, Heinz, assignor.)
- Gessler, Frederick A., La Grange, assignor to Electric Milker Corporation, Chicago, Ill. Teat cup for milking machines. No. 1,425,584; Aug. 15.
- Gessler, Frederick A., La Grange, assignor to Electric Milker Corporation, Chicago, Ill. Milk and air line connection for milking machines. No. 1,425,585; Aug. 15.
- Gessler, Harry, New York, N. Y. Overflow alarm. No. 1,434,112; Oct. 31.
- Gestetner, David, London, England. Duplicating, manifolding, and the like. No. 1,426,979; Aug. 22.
- Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electric switch. No. 1,407,852; Feb. 28.
- Getchell, Benjamin E., assignor to The Trumbull Electric Mfg. Co., Plainville, Conn. Quick-break switch mechanism. No. 1,418,558; June 6.
- Getchell, Benjamin E., assignor to Railway and Industrial Engineering Company, Greensburg, Pa. Current-limiting device. No. 1,427,203; Aug. 29.
- Getchell, Harry, Detroit, Mich. Automobile signal. No. 1,435,116; Nov. 7.

Alphabetical list of patentees—Continued.

- Getchell, Leslie W., Waterville, Me. Insulated box for refrigerating or cooking foodstuffs. No. 1,408,937; Mar. 7.
- Getman, Malvin S. (See Cartwright, Burr M., assignor.)
- Getsis, George. (See Kalma, Steve, assignor.)
- Getzinger, George W., Savannah, Ga. Window-screen mounting. No. 1,429,337; Sept. 19.
- Getzinger, William J., Los Angeles, Calif. Collar. No. 1,413,470; Apr. 18.
- Getsinger, William J., Los Angeles, Calif. Tie retainer. No. 1,423,208; July 18.
- Gettinger, John L., New York, N. Y. Burglar alarm for automobiles. No. 1,411,246; Mar. 28.
- Gettins, Edwin G., Los Angeles, assignor to M. R. Gettins, Long Beach, Calif. Airplane. No. 1,439,232; Dec. 19.
- Gettins, Minnie R. (See Gettins, Edwin G., assignor.)
- Gettle, Homer R., and C. S. Scott, Bluffton, Ind. Eye-glass mounting. No. 1,419,040; June 6.
- Gettman, Charles A. (See Lusk, Raymond F., assignor.)
- Getz, Benjamin E. (See Leader, J., Litwiller, and Getz.)
- Getz, Benjamin F., Mechanicsburg, Pa. Tire-rim construction. No. 1,404,286; Jan. 24.
- Getz, Edwin W., Loudonville, Ohio. Power cultivator. No. 1,424,297; Aug. 1.
- Getz Power Washer Co. (See Leader, J., Litwiller, and Getz, assignors.)
- Getz, Vernon C., Lebanon, Ind. Incubator. No. 1,421,075; June 27.
- Gevaert, L., et Co. (See Cocanari, Silvio, assignor.)
- Gevecker, Charles J., et al. (See Tracy, Laurence J., assignor.)
- Gevecker, Harry, et al. (See Tracy, Laurence J., assignor.)
- Gevens-Orban, Emil, Montegnée, near Liege, Belgium. Presenting the hydrocarbon in the form of a thin film of large surface area to the action of an oxidizing agent. No. 1,404,435; Jan. 24.
- Gewerkschaft Hansbach II. (See Weber, Wilhelm, assignor.)
- Geyer, George, Hammond, Ind., assignor to Federal Cement Tile Company, Chicago, Ill. Roof structure. No. 1,417,513; May 30.
- Geyer, John F., Philadelphia, Pa. Machine for filling bottles, etc. (Reissue.) No. 15,460; Sept. 26.
- Geyer, Roy M., Mussoorie, and W. H. Tripp, Roorkee, India. Cinematograph safety control apparatus. No. 1,439,091; Dec. 19.
- Ghegan, Harry G., assignor of one-third to S. R. Dickinson, Camden, N. J., and one-third to M. M. Katz, Philadelphia, Pa. Solvent for printers' inks. No. 1,406,183; Feb. 14.
- Ghetia, Nichitu V., Cleveland, Ohio. Hair clipper. No. 1,422,352; July 11.
- Ghosh, Satish C., Chicago, Ill. Incense burner. No. 1,412,516; Apr. 11.
- Ghougassoff, Missak, Newark, N. J. Turbine. No. 1,412,281; Apr. 11.
- Giambiasi, Giovanni E., assignor to H. S. Levy and L. F. Levy, Philadelphia, Pa. Precision instrument. No. 1,415,627; May 9.
- Giandalia, Salvatore, son of Antonio, assignor of one-half to S. Tani, Auburn, Ill. Shoe-polishing machine. No. 1,420,540; June 20.
- Gianetti, Victor A., New York, N. Y. Camera. No. 1,428,431; Sept. 5.
- Giannacopoulos, George J., Pittsburgh, Pa. Bridging device for railway crossings. No. 1,418,559; June 6.
- Giannone, Pasquale, Philadelphia, Pa. Boatswain's seat. No. 1,428,369; Sept. 5.
- Giard, Napoleon, St. Michel de Rougemont, Quebec, Canada. Apparatus for raising sections of hives. No. 1,436,586; Nov. 21.
- Glaugue, Jules H., and C. Haesler, Le Locle, Switzerland. Friction clutch. No. 1,423,413; July 18.
- Gibb, Edwin H., Nutley, N. J., assignor to Gibb Yield Slide Corporation, New York, N. Y. Computing device. No. 1,413,021; Apr. 18.
- Gibb Yield Slide Corporation. (See Gibb, Edwin H., assignor.)
- Gibbons, Charles, Baker, Oreg. Automobile tool box. No. 1,433,810; Oct. 31.
- Gibbons, Charles H. (See Cleal, J. P., and Gibbons.)
- Gibbons, Frank J., Worcester, Mass. Valve grinder. No. 1,433,684; Oct. 31.
- Gibbons, John W., Merced Falls, assignor of one-half to T. Carlon, La Grange, Calif. Flytrap for use with live stock. No. 1,427,204; Aug. 29.
- Gibbons, Nathan A., Martins Ferry, Ohio, assignor to Whittaker-Glessner Company, Wheeling, W. Va. Hog trough. No. 1,407,404; Feb. 21.
- Gibbons, Nathan A., Martins Ferry, Ohio, assignor to Whittaker-Glessner Company, Wheeling, W. Va. Collapsible box. No. 1,422,692; July 11.
- Gibbons, Richard, assignor to M. A. Kenney, Brooklyn, N. Y. Airplane-receiving apparatus. No. 1,437,236; Nov. 28.
- Gibbons, Sarah A. (See Lucas, Walter H., jr., assignor.)
- Gibbons, Sherwin, et al. (See Ziegler, George J., assignor.)
- Gibbons, Willis A., New York, N. Y., assignor to Revere Rubber Company. Making tennis balls and like hollow articles. No. 1,415,437; May 9.
- Gibbons, Willis A., New York, N. Y., assignor to Revere Rubber Company. Covering tennis balls. No. 1,415,438; May 9.
- Gibbons, Willis A., New York, N. Y., assignor to American Rubber Company. Working quick-curing compounds. No. 1,427,283; Aug. 29.
- Gibbons, Willis A., New York, and H. W. Ritter, Brooklyn, N. Y., assignors to American Rubber Company. Permeable sheet material and making same. No. 1,427,754; Aug. 29.
- Gibbs, Charles, deceased; Anna G. Tobin, administratrix, New York, N. Y. Coin-deposit receptacle. No. 1,415,168; May 9.
- Gibbs, Edward F.-G., Washington, D. C. Advancing cutter-boring tool. No. 1,423,209; July 18.
- Gibbs, Elmer W., assignor to The Gibbs Manufacturing Company, Canton, Ohio. Top. (Reissue.) No. 15,475; Oct. 24.
- Gibbs, Eugene U., assignor to S. Morgan Smith Company, York, Pa. Bearing for hydraulic-turbine shafts. No. 1,425,378; Aug. 8.
- Gibbs, Eugene U., assignor to S. Morgan Smith Company, York, Pa. Bearing for hydraulic-turbine shafts. No. 1,425,379; Aug. 8.
- Gibbs, Harry D. (See Conover, C., and Gibbs.)
- Gibbs, Harry D., Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making aluminum chloride. No. 1,422,560; July 11.
- Gibbs, James D., Louisville, Ky. Casing ring and wedge apparatus. No. 1,435,635; Nov. 14.
- Gibbs, John C., Lancaster, Pa. Sifter can. No. 1,433,544; Oct. 31.
- Gibbs, John M., Parsons, Kans. Ice-cream dipper. No. 1,430,979; Oct. 3.
- Gibbs Manufacturing Company, The. (See Gibbs, Elmer W., assignor.) (Reissue.)
- Gibbs, McLain, and J. H. Davis, Everett, Wash. Coin-controlled air valve. No. 1,427,529; Aug. 29.
- Gibbs, Ralph A., assignor to L. J. Kolb, trading as Safetee Glass Company, Philadelphia, Pa. Headlight for vehicles. No. 1,415,236; May 9.
- Gibbs, Starr M., Mount Rainier, Md. Hand vise. No. 1,414,354; May 2.
- Gibbs, William S., Indianapolis, Ind. Telephone-receiver stand. No. 1,434,000; Oct. 31.
- Gibson, Arthur H., Burslem, Stoke-upon-Trent, England. Teapot, coffeepot, and like article provided with spout. No. 1,434,740; Nov. 7.
- Gibson, Carleton B., Jr., Savannah, Ga. Spotlight support. No. 1,405,111; Jan. 31.
- Gibson, Carleton B., jr., Savannah, Ga. Drill bit. No. 1,439,092; Dec. 19.
- Gibson, Carleton B., jr., Savannah, Ga. Underreamer. No. 1,439,093; Dec. 19.
- Gibson, Charles C., Davenport, Wash. Wrench. No. 1,430,734; Oct. 3.
- Gibson, Edward T., Brooklyn, N. Y. Automobile intention-signaling device. No. 1,422,960; July 18.
- Gibson, Felix A., Jupiter, Fla. Coupling. No. 1,404,595; Jan. 24.
- Gibson, Francis W., Boston, Mass. Coffee maker. No. 1,435,287; Nov. 14.
- Gibson, Fred H., assignor of one-half to B. Savannah, San Francisco, Calif. Electric gear-shifting mechanism. No. 1,433,130; Oct. 24.
- Gibson, George H., Montclair, N. J. Furnace. No. 1,417,374; May 23.
- Gibson, Hugo C., New York, N. Y. Wheel. No. 1,413,981; Apr. 25.
- Gibson, Hugo C., New York, N. Y. Wheel. No. 1,435,000; Nov. 7.
- Gibson, John A., Toledo, Ohio. Car door. No. 1,438,034; Dec. 5.
- Gibson, Joseph P., Spring Valley, Ill. Trunk shoe box. No. 1,420,920; June 27.
- Gibson, Joseph P., Chicago, Ill. Combined ironing board and clothes hanger. No. 1,437,589; Dec. 5.
- Gibson Mandolin-Guitar Company. (See McHugh, T. J., and Mafit, assignors.)
- Gibson, Marshall D., Webster Groves, Mo. Churn. No. 1,415,334; May 9.
- Gibson, Ralph E., and H. Nicoll, Liverpool, England. Discharge chute. No. 1,424,010; July 25.
- Gibson, Samuel H., assignor to The Faner Manufacturing Company, Cleveland, Ohio. Sadiron holder. No. 1,424,759; Aug. 8.
- Gibson, Walter D. K., et al., executors. (See Spreckels, J. D., jr., and Laborda.)
- Gibson, William E. F., assignor of one-half to A. Johnston, Vancouver, British Columbia, Canada. Automobile signaling device. No. 1,430,442; Sept. 26.
- Gibson, William R., Sittingbourne, England. Nonrefillable bottle. No. 1,403,763; Jan. 17.
- Giczewski, Sigmund, Hammond, Ind. Door hanger. No. 1,403,764; Jan. 17.
- Giddings, Charles E., jr., Pittsburgh, Pa., assignor to H. G. Hammer, trustee. Valve-removing tool. No. 1,433,131; Oct. 24.
- Gideon, Arthur C., Live Oak, Fla. Sign holder. No. 1,430,980; Oct. 3.
- Gidmark, Barney, Cloquet, Minn. Convertible hand ax. No. 1,419,249; June 13.
- Giebner, Samuel A., Bakersfield, assignor to Electric Dehydrating Company, San Francisco, Calif. Apparatus for dehydrating oil. No. 1,414,079; Apr. 25.

Alphabetical list of patentees—Continued.

- Giedroyc, Sigmund A., Vineland, N. J. Hypodermic syringe. No. 1,434,381; Nov. 7.
- Giegler, Paul C., River Forest, assignor to Universal Toy & Novelty Manufacturing Company, Oak Park, Ill. Toy. No. 1,410,009; Mar. 21.
- Gielow, Harry C., Chicago, assignor to Elgin Auto Tool Company, Elgin, Ill. Tire-valve tool. No. 1,415,628; May 9.
- Gierse, Fred, Beaumont, Tex. Well-drilling bit. No. 1,430,072; Sept. 26.
- Gieryski, Leopold C., and C. Bohdanovicz, New Britain, Conn. Rope or cable connector and grip. No. 1,427,284; Aug. 29.
- Gieseler, George A., Cleveland, Ohio. Nozzle. No. 1,416,013; May 16.
- Giesler, Franklin B., Milwaukee, Wis. Automatic stroke-regulating device. No. 1,417,986; May 30.
- Giesler, Franklin B., Milwaukee, Wis., assignor to O. J. Ziegler, Los Angeles, Calif. Separating apparatus. No. 1,430,638; Oct. 3.
- Giesler, Henry, Brussels, Belgium, assignor to Heberlein & Co., A. G., Wattwil, Switzerland. Producing patterned textile fabrics and the resulting product. No. 1,425,520; Aug. 15.
- Giesler, Jean V., assignor to The Fulton Company, Knoxville, Tenn. Automobile radiator unit. No. 1,411,487; Apr. 4.
- Giesler, Jean V., assignor to The Fulton Company, Knoxville, Tenn. Cooling system for internal-combustion engines. No. 1,414,780; May 2.
- Giesel, Henry, Chicago, Ill. Water filter. No. 1,433,714; Oct. 31.
- Giffen, Burr E., assignor to The Martin V. Kelley Company, New York, N. Y. Producing pictures with exaggerated perspective. No. 1,427,456; Aug. 29.
- Giffen, Robert K., Wheeling, W. Va. Loading machine. No. 1,426,855; Aug. 22.
- Gifford, Marvin F., Newaygo, Mich. Lock for ignition circuits. No. 1,424,298; Aug. 1.
- Gifford, William E., Worcester, and W. R. Smith, Auburn, Mass., assignors to Viking Specialty Company. Socket ratchet wrench. No. 1,435,288; Nov. 14.
- Gigliotti, William, North Adams, Mass. Cloth-straightening machine. No. 1,404,110; Jan. 17.
- Gilbert, A. C., Company, The. (See Erhardt, Oscar P., assignor.)
- Gilbert, A. C., Company. (See Gilbert, Alfred C., assignor.)
- Gilbert, A. C., Company, The. (See Stone, Harris D., assignor.)
- Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Sled. No. 1,424,011; July 25.
- Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Electric switch. No. 1,424,720; Aug. 1.
- Gilbert, Alfred C., assignor to A. C. Gilbert Company, New Haven, Conn. Toy building construction. No. 1,426,376; Aug. 22.
- Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Churn or agitator. No. 1,435,289; Nov. 14.
- Gilbert, Arthur S., assignor to W. & T. Avery, Limited, Birmingham, England. Automatic weighing scale. No. 1,405,203; Jan. 31.
- Gilbert, Charles F., St. Louis, Mo. Signaling device. No. 1,425,586; Aug. 15.
- Gilbert, Elmer E. (See Hobson, J., and Gilbert.)
- Gilbert, Frank H., Ridgefield, Wash. Sack holder. No. 1,402,227; Jan. 3.
- Gilbert, Frank V., assignor of one-third to W. J. Gourley and one-third to P. K. Clayton, jr., Chicago, Ill. Faucet. No. 1,436,650; Nov. 28.
- Gilbert, Harold. (See Rohr, J., and Gilbert.)
- Gilbert, James. (See Selby, W. J., and Gilbert.)
- Gilbert, James E., and G. W. Harris, Chicago, Ill. Back-bar transfer mechanism for smut-sheeting machines. No. 1,428,025; Sept. 5.
- Gilbert, James E., and G. W. Harris, Chicago, Ill. Sectional smut sheet and crossbar for smut-sheet machines. No. 1,434,002; Oct. 31.
- Gilbert, James E., and G. W. Harris, assignors to Gilbert Slip Sheet Machine Company, Chicago, Ill. Mechanical sheet stop for smut-sheet machines. No. 1,420,653; June 27.
- Gilbert, James E., and G. W. Harris, assignors to Gilbert Slip Sheet Machine Company, Chicago, Ill. Means for steadying paper carried by smut-sheet machines. No. 1,427,530; Aug. 29.
- Gilbert, James E., and G. W. Harris, assignors to Gilbert Slip Sheet Machine Company, Chicago, Ill. Safety track for smut-sheeting machines. No. 1,434,001; Oct. 31.
- Gilbert, James M., Dallas, Tex. Dental-broach holder. No. 1,404,519; Jan. 24.
- Gilbert, Jesse W., Salina, Kans. Dirigible balloon. No. 1,426,726; Aug. 22.
- Gilbert, Laurence J., Vicksburg, Miss. Investment material. No. 1,432,545; Oct. 17.
- Gilbert, Levi L., Chicago, Ill. Automobile tool. No. 1,419,922; June 20.
- Gilbert, Lewis R. (See Stunz, W. P., and Gilbert.)
- Gilbert, Naulbert A. (See Stevens, Arthur D., assignor.)
- Gilbert, Oliver C., New York, N. Y. Working metals. No. 1,427,100; Aug. 29.
- Gilbert, Oliver C., New York, N. Y. Working metals. No. 1,427,101; Aug. 29.
- Gilbert Slip Sheet Machine Company. (See Gilbert, J. E., and Harris, assignors.)
- Gilbert, Tilton I., Los Angeles, Calif. Trunk appliance. No. 1,415,169; May 9.
- Gilbert, Walker B., Lynchburg, Va. Hoop-stretching device. No. 1,421,935; July 4.
- Gilbert, Walter M., East Hartford, Conn. Electrical receptacle. No. 1,404,953; Jan. 31.
- Gilbert, William L., Clock Company. (See Hodge, Albert P., assignor.)
- Gilbert, William L., Clock Company. (See Hyde, Charles H., assignor.)
- Gilbert, William L., Clock Company. (See Williams, Charles E., assignor.)
- Gilbert, Woodland H., St. Paul, Minn. Finder for cameras. No. 1,438,230; Dec. 12.
- Gilbert & Barker Manufacturing Company. (See Davis, John B., assignor.)
- Gilbert & Barker Manufacturing Company. (See Hine, Edward B., assignor.)
- Gilbertson, Oliver G., Osage, Iowa. Rein holder. No. 1,418,147; May 30.
- Gilbreath, Victor G., assignor to North Coast Dry-Kiln Company, Seattle, Wash. Lumber-drying kiln. No. 1,437,839; Dec. 5.
- Gilby, Frank R., Detroit, Mich. Wrench. No. 1,421,936; July 4.
- Gilchrest, George I., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator. No. 1,435,225; Nov. 14.
- Gilchrist, Clarence F., assignor to The Electric Auto-Lite Company, Toledo, Ohio. Driving mechanism. No. 1,429,028; Sept. 12.
- Gilchrist, George G., Oakland, Calif. Combined couch and bed. No. 1,402,414; Jan. 3.
- Gildemeister, Alphonse, Paris, France. Treatment of ores of vanadium. No. 1,415,028; May 9.
- Gile, William A., Cliftondale, assignor, by mesne assignments, to G. K. Woodworth, Brookline, Mass. Internal-combustion engine. No. 1,439,958; Dec. 26.
- Giles, Harvey, Brooklyn, N. Y. Coin-controlled vending machine. No. 1,420,835; June 27.
- Giles, Harvey, Brooklyn, assignor of one-half to A. C. Roberts, Woodhaven, N. Y. Toothbrush holder. No. 1,409,701; Mar. 14.
- Giles, Harvey, Brooklyn, assignor to A. Ward, New York, N. Y. Coin-controlled vending machine. No. 1,420,834; June 27.
- Giles, Harvey, Brooklyn, assignor to A. Ward, New York, N. Y. Coin-controlled vending machine. No. 1,421,453; July 4.
- Giles, J. S., & Sons. (See McGarrahan, John F., assignor.)
- Giles, Lloyd, assignor to Walnut Growers Spray Manufacturing Company, Los Angeles, Calif. Dusting machine. No. 1,435,706; Nov. 14.
- Giles, Louis E., New York, N. Y., assignor to Underwood Computing Machine Company, New York, N. Y. Computing machine. No. 1,414,355; May 2.
- Giles, Pleasant B., assignor of one-half to J. Q. Lauer, Waverly, Iowa. Automobile license plate. No. 1,426,856; Aug. 22.
- Giles, Robert T. (See Tait, W. A., and Giles.)
- Giles, Walter D., Leesville, La. Coupling for sucker rods. No. 1,407,327; Feb. 21.
- Gillilan Bros. Smelting & Refining Company. (See Howard, Earl H., assignor.)
- Gilgan, Joseph J., Boise, Idaho. Constant-flow weir or module. No. 1,410,746; Mar. 28.
- Giliberti, Benedetto, New York, N. Y. Vibrator. No. 1,416,281; May 16.
- Gilkey, Patrick H., Richland, Mich. Corn harvester. No. 1,439,884; Dec. 23.
- Gilkey, W. S., Printing Company, The. (See Hogan, C. V., assignor.)
- Gill, Catherine A., Detroit, Mich. Basting cover for roasting pans. No. 1,413,579; Apr. 25.
- Gill, Charles H., Chicago, Ill. Friction transmission mechanism. No. 1,410,747; Mar. 28.
- Gill, Charles H., Chicago, Ill. Mechanical movement. No. 1,413,982; Apr. 25.
- Gill, Charles H., Chicago, Ill. Multiple sound-record tablet. No. 1,427,373; Aug. 29.
- Gill, Charles H., assignor to P. B. Malebranche, Chicago, Ill. Motion-picture tape-winding mechanism. No. 1,414,941; May 2.
- Gill, Charles H., assignor to P. B. Malebranche, Chicago, Ill. Shutter for motion-picture apparatus. No. 1,414,942; May 2.
- Gill, Charles H., assignor of one one-hundredth to E. L. Fantus, Chicago, Ill. Automatic transmission mechanism. No. 1,432,684; Oct. 17.
- Gill, Charles H., assignor of one one-hundredth to E. L. Fantus, Chicago, Ill. Crank transmission mechanism. No. 1,435,838; Nov. 14.
- Gill, Frank, Chicago, Ill. Airship. No. 1,405,407; Feb. 7.
- Gill, Frank, Chicago, Ill. Aeroplane. No. 1,429,730; Sept. 19.

Alphabetical list of patentees—Continued.

- Gill, Herbert D., Kane, assignor of one-half to C. J. Brähler, Erie, Pa. Flue cleaner. No. 1,414,943; May 2.
- Gill, John R., Birmingham, Ala. Guy derrick. No. 1,417,728; May 30.
- Gill, Julius Q., Peoria, Ill. Cooling compound for hot journal boxes and producing the same. No. 1,423,103; July 18.
- Gill, Michael J., et al. (See Myers, Charles E., assignor.)
- Gill, Percy J., Liverpool, England. Safety device for use in window cleaning and other exposed positions. No. 1,409,702; Mar. 14.
- Gill, Walter L., San Bernardino, Calif. Electric storage battery. No. 1,425,469; Aug. 8.
- Gillan, John F., Schenectady, N. Y., assignor to General Electric Company. Metal-treating apparatus. No. 1,425,851; Aug. 15.
- Gillard, Albert H. (See Atwood, Leonard, assignor.)
- Gillard, William, Stratford, Ontario, Canada. Cement-tile-making machine. No. 1,424,469; Aug. 1.
- Gillbee, Manual A. T., assignor to A. M. Collins Manufacturing Company, Philadelphia, Pa. Ornamental paper and making same. No. 1,403,765; Jan. 17.
- Gillen-Cole Co. (See Fischer, Max W., assignor.)
- Gillen, George A., Jersey City, N. J., assignor to Gillen Laboratories Corporation. Flying toy. No. 1,419,041; June 6.
- Gillen Laboratories Corporation (See Gillen, George A., assignor.)
- Gilles, Pierre P., Springfield, Mass. Carburetor. No. 1,433,545; Oct. 31.
- Gillespie, Alexander, Pittsfield, Ill., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Crusher and pulverizer. No. 1,420,031; June 20.
- Gillespie, Alexander H. (See Kennedy, R. O., Gillespie, and Marshall.)
- Gillespie, Charles W., Marion, Ind. Appliance for retaining artificial dentures or artificial teeth in place. No. 1,408,582; Mar. 7.
- Gillespie-Eden Corporation. (See Eden, Harold W., assignor.)
- Gillespie Eden Corporation. (See Francis, Charles W., assignor.)
- Gillespie Eden Corporation. (See Schroeder, A. H., and Boone, assignors.)
- Gillespie, George W., Punxsutawney, Pa. Apparatus for casting sash weights. No. 1,432,749; Oct. 24.
- Gillespie Motor Company. (See Stephens, Harry H., assignor.)
- Gillespie, Samuel H., Morristown, N. J. Centrifugal de-aerator. No. 1,427,457; Aug. 29.
- Gillet, Alexis F., assignor to Jubilee Manufacturing Company, Omaha, Nebr. Oil-level-indicating attachment for crank cases. No. 1,423,558; July 25.
- Gillette, Herbert B., Grand Rapids, Mich. Dry-kiln truck. No. 1,430,639; Oct. 3.
- Gillette, Leroy D., assignor of one-half to R. A. Tenny, Galesburg, Ill. Variable-speed gearing. No. 1,431,649; Oct. 10.
- Gillette Safety Razor Company. (See Fairweather, Nelson H., assignor.)
- Gillette Safety Razor Company. (See Nickerson, William E., assignor.)
- Gillette Safety Razor Company. (See Parker, Riley H., assignor.)
- Gillette Safety Razor Company. (See Petersen, Neil P., assignor.)
- Gillette-Vibber Co., The. (See Vibber, Wheeler H., assignor.)
- Gilley, Lloyd C. (See Addington, James R. G., assignor.)
- Gillian, Irving T., and C. E. Coolman, Detroit, Mich. Windshield-top fastener. No. 1,404,596; Jan. 24.
- Gillies, George J. (See Woehr, Frederick A., assignor.)
- Gillies, James H., East-Camberwell, Victoria, and P. M. Gillies, Electra, North West Bay, Tasmania, Australia. Treatment of zinciferous ores or concentrates. No. 1,434,693; Nov. 7.
- Gillies, John B., Thornhill, Ontario, Canada. Horseshoe. No. 1,429,583; Sept. 19.
- Gillies, John S., Brooklyn, N. Y. Apparatus for making concrete piles. No. 1,403,766; Jan. 17.
- Gillies, Percy M. (See Gillies, James H., and P. M.)
- Gillig, Chester H. and L., San Francisco, Calif. Automobile side curtain. No. 1,423,210; July 18.
- Gillig, Leo. (See Gillig, Chester and L.)
- Gilliland, Orra L., Minneapolis, Minn. Tractor. No. 1,436,651; Nov. 28.
- Gillinder, Edgar A., Philadelphia, Pa. Interchangeable globe holder for an electric light. No. 1,425,852; Aug. 15.
- Gilling, Ethelbert N., assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Tandem steam hydraulic apparatus. No. 1,407,146; Feb. 21.
- Gillis & Geoghegan. (See Arwine, Arthur J., assignor.)
- Gillmor, Horatio G., Washington, D. C. Anticreeper. No. 1,422,260; July 11.
- Gillom, Frank, assignor of one-half to H. Davis, Spokane, Wash. Lock protector. No. 1,432,546; Oct. 17.
- Gillon, Gustave. (See Choppinet, J., Gillon, and Defays.)
- Gillott, Anthony G., Haledon, N. J. Hand-reading device. No. 1,404,385; Jan. 24.
- Gillott, William C. (See Cutts, J., and Gillott.)
- Gilman, Albert E., assignor to King & Hamilton Company, Ottawa, Ill. Corn sheller. No. 1,434,606; Nov. 7.
- Gilman, Benoist P., Yoakum, Tex. Drift valve. No. 1,401,975; Jan. 3.
- Gilman, Charles. (See Parmley, W. C., and Gilman.)
- Gilman, George H., Claremont, N. H., assignor to Sullivan Machinery Company, Boston, Mass. Pressure-fluid tool. No. 1,409,703; Mar. 14.
- Gilman, George H., Boston, Mass., assignor to Sullivan Machinery Company. Lubricator for engines. No. 1,434,694; Nov. 7.
- Gilman, George H., Boston, Mass., assignor to Sullivan Machinery Company. Fluid motor. No. 1,437,513; Dec. 5.
- Gilman, John A., American Lake, Wash. Excavator. No. 1,424,093; July 25.
- Gilmore, Edward R., Miami, Okla. Automobile gasoline tank. No. 1,435,001; Nov. 7.
- Gilmore, George J., Chicago, Ill. Film clasp. No. 1,430,805; Oct. 3.
- Gilmore, Robert J., Assam, British India. Hoop-iron stretcher. No. 1,438,955; Dec. 19.
- Gilmore, Samuel R., Seattle, Wash. Clamp. No. 1,411,013; Mar. 28.
- Gilmore, William L., Port Washington, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Airplane. No. 1,430,640; Oct. 3.
- Gilmore, William L., Port Washington, and T. P. Wright, assignors to Curtiss Aeroplane and Motor Corporation, Garden City, Long Island, N. Y. Aeroplane wing structure. No. 1,437,469; Dec. 5.
- Gilmore, William R., assignor to Superior Steel Castings Company, Benton Harbor, Mich. Wheel and making same. No. 1,428,954; Sept. 12.
- Gilmour, Benjamin P., West Terre Haute, Ind. Switch frog. No. 1,416,458; May 16.
- Gilmour Hogshead Machine Company. (See Gilmour, John, assignor.)
- Gilmour, John, assignor to Gilmour Hogshead Machine Company, Owensboro, Ky. Wire hoop and crating machine. No. 1,411,488; Apr. 4.
- Giloy, Franz. (See Thies, K., and Giloy.)
- Giloy, Franz, et al. (See Thies, K., Maenchen, Steindorff, and Giloy.)
- Gilpin, Garth G., Riverside, Ill. Uncoupling lever for car couplings. No. 1,411,489; Apr. 4.
- Gilpin, Garth G., Riverside, Ill., assignor to W. P. Murphy, New York, N. Y. Metal framing or end reinforcement for railway cars. No. 1,430,544; Oct. 3.
- Gilpin, Garth G., Riverside, assignor to W. P. Murphy, Chicago, Ill. Corrugated-sheet-metal door for railway cars of the dumping type. No. 1,433,270; Oct. 24.
- Gilpin, Garth G., Riverside, Ill., assignor to W. P. Murphy, New York, N. Y. Corrugated-sheet-metal door for railway cars of the dumping type. No. 1,433,811; Oct. 31.
- Gilpin, Garth G., Riverside, assignor to W. P. Murphy, Chicago, Ill. Reinforced door for railway cars of the dumping type. No. 1,436,310; Nov. 21.
- Gilpin, Langdon & Company. (See Greene, John, assignor.)
- Gilpin, William R. (See Druitt, P. W., and Gilpin.)
- Gilson, Clair A., Niles, Mich. Mechanical calculating device. No. 1,404,019; Jan. 17.
- Gilson, Dayton H., Rushville, Ind. Driving attachment for tractors. No. 1,421,076; June 27.
- Gilson, Edward L., Roslindale, Mass. Press. No. 1,408,450; Mar. 7.
- Gilson, Emery G., Schenectady, N. Y., assignor to General Electric Company. Carburetor. No. 1,407,024; Feb. 21.
- Gilson, Henry R., New Rochelle, N. Y., assignor to Revere Rubber Company. Press. No. 1,408,189; Feb. 28.
- Gilson, Henry R., New Rochelle, N. Y., and G. F. Fisher, Providence, R. I., assignors to Revere Rubber Company. Method and apparatus for manipulating vulcanizing devices. No. 1,424,470; Aug. 1.
- Gilson, James H., Omaha, Nebr. Helmet. No. 1,434,607; Nov. 7.
- Gilson, John E., Port Washington, Wis. Garden tool. No. 1,420,423; June 20.
- Gilson Mfg. Co. (See Travers, Charles J., assignor.)
- Gilson, Robert M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Three-position relay. No. 1,416,953; May 23.
- Gingerick, Kent S., Urbana, assignor to R. T. Parrish, Dayton, Ohio. Steering gear for motor-propelled vehicles. No. 1,429,029; Sept. 12.
- Gingras, Edward F., Buffalo, N. Y. Prepared fabric belting. No. 1,404,597; Jan. 24.
- Gingras, Edward F., Buffalo, N. Y. Making belting. No. 1,419,842; June 13.
- Gingras, Henri, Quebec, Quebec, Canada. Heating bag. No. 1,439,094; Dec. 19.
- Ginn, Carrelvernon B., assignor of one-half to P. D. Ginn, Brenham, Tex. Testing machine for motor vehicles. No. 1,421,000; June 27.
- Ginn, E. Hubert, Fort Wayne, Ind. Tag. No. 1,430,641; Oct. 3.
- Ginn, Paul D. (See Ginn, Carrelvernon B., assignor.)
- Ginn, Percy E. (See Horton, Charles, assignor.)
- Ginn, Roy. (See Shelton, George I., assignor.)
- Ginnings, Paul M. (See Anders, P., and Ginnings.)
- Ginsburg, Frederick, Chicago, Ill. Demountable rim for vehicle wheels. No. 1,434,113; Oct. 31.

Alphabetical list of patentees—Continued.

- Ginsburg, Henrietta, El Paso, Tex. Perspectoscope. No. 1,415,833; May 9.
- Ginsburg, Samuel J., Denver, Colo. Phonograph attachment. No. 1,418,251; May 30.
- Ginzel, Elmer W., Redlands, Calif. Sectional demountable rim. No. 1,426,288; Aug. 15.
- Gioiosa, Joseph, East Milton, Mass. Torpedo. No. 1,406,369; Feb. 14.
- Giommi, Fortunato, Pawtucket, R. I. Incubator. No. 1,434,286; Oct. 31.
- Giovagnoli, John, assignor of two-thirds to Roberts, Nash & Company, Inc., Flushing, N. Y. Mortar spreader. No. 1,423,316; July 18.
- Giovannoni, Guglielmo, Turin, Italy, assignor to O. Pomilio, New York, N. Y. Filter for gasoline. No. 1,401,976; Jan. 3.
- Giovannoni, Guglielmo, Turin, Italy, assignor to O. Pomilio, New York, N. Y. Switch for controlling ignition and starting circuits in explosion engines. No. 1,414,734; May 2.
- Giovannoni, Guglielmo, Turin, Italy, assignor to O. Pomilio, New York, N. Y. Device for connecting electric cables or conductors with other parts. No. 1,436,341; Nov. 21.
- Glozza, Frank E., New Orleans, La. Automatic feed device for pearly cones. No. 1,424,638; Aug. 1.
- Gipe, Solomon S., Hershey, Pa. Corner-cutting machine for box blanks. No. 1,416,282; May 16.
- Gipson, Charles W. (See Hamilton, Clarence F., assignor.)
- Girard, Albert G., assignor of one-half to F. A. Amidon, Worcester, Mass. Furniture. No. 1,407,405; Feb. 21.
- Girard, Alfred O., Decatur, assignor to Glacier Refrigerating Machine Co., a common-law trust, A. O. Girard, trustee, Chicago, Ill. Compressing machine with automatic oil return. No. 1,416,705; May 23.
- Girard, Alfred O., assignor to Glacier Refrigerating Machine Co., a common-law trust, A. O. Girard, trustee, Chicago, Ill. Packing ring. No. 1,437,646; Dec. 5.
- Girard, Antoine L., Sterling Junction, Mass. Noisemaker. No. 1,419,923; June 20.
- Girard, Arthur G., Toledo, Ohio. Adjustable suspending rig for automobiles. No. 1,416,191; May 16.
- Girard, Louis B., and F. L. Meneley; said Meneley assignor to said Girard, Los Angeles, Calif. Centering device. No. 1,424,895; Aug. 8.
- Girardelli, Riccardo, Rome, Italy. Transmitter for distant controlling apparatus for ordnance. No. 1,410,912; Mar. 28.
- Girdwood, Kenneth, Hancock Point, Me. Compressing apparatus. No. 1,439,810; Dec. 26.
- Girin, Pierre, assignor to Societe Anonyme de Commeny, Fourchambault & Decazeville, Paris, France. Alloy containing iron, nickel, chromium. No. 1,422,096; July 11.
- Girl, Christian. (See Dunston, Wayne E., assignor.)
- Girling, Albert H. G., London, England. Friction clutch. No. 1,437,412; Dec. 5.
- Giró y Casañas, Pantaléon. (See Bosque, J. V., and Giró y Casañas.)
- Girolami, Charles G., Chicago, Ill. Anchoring or securing device. No. 1,428,327; Sept. 5.
- Giroux, Carl H., Schenectady, N. Y., assignor to General Electric Company. System of electrical distribution. No. 1,425,853; Aug. 15.
- Giroux, Georges C. A., Montreal, Quebec, Canada. Picture books. No. 1,409,291; Mar. 14.
- Giroux, Joseph H., Montreal, Quebec, Canada. Meat-hanging device. No. 1,404,436; Jan. 24.
- Giroux, Roland J., Los Angeles, Calif. Film magazine for motion-picture cameras. No. 1,428,480; Sept. 5.
- Girten, James E., assignor of one-half to H. Snow, Chicago, Ill. Elevator-door lock. No. 1,425,762; Aug. 15.
- Gish, John L., South Bend, Ind. Duplex valve. No. 1,405,578; Feb. 7.
- Gisholt Machine Company. (See Elvers, Hans C., assignor.)
- Gisholt Machine Company. (See McCabe, Horace B., assignor.)
- Gisholt Machine Company. (See Miller, William L., assignor.)
- Gits, Alphons H., Chicago, Ill. Shackle bolt. No. 1,433,947; Oct. 31.
- Gits, Joseph A., Chicago, Ill. Air circulator. No. 1,404,598; Jan. 24.
- Gittings, Jed, et al. (See Fields, William E., assignor.)
- Gittins, George E. (See Coates, W. A., Gittins, and Davies.)
- Gittins, Roger, Shrewsbury, England. Potato-digging machine. No. 1,411,966; Apr. 4.
- Gitzendanner, Paul, Woodhaven, N. Y., and F. J. Albert, West New York, N. J. Delivery-wheel trip for feeders. No. 1,426,980; Aug. 22.
- Given, Arthur, Newark, N. J., assignor to Stevens-Aylsworth Company, New York, N. Y. Process and apparatus for extracting sulphur from spent oxide from gas works. No. 1,404,199; Jan. 24.
- Givens, Mary A., Victor, Colo. Finger ring for handling paper sheets. No. 1,439,811; Dec. 26.
- Givone, William G., Garfield, N. J. Washboiler and percolator. No. 1,433,546; Oct. 31.
- Gizzi, Silvio A., Niagara Falls, Ontario, Canada. Pad for shoe soles. No. 1,409,704; Mar. 14.
- Gjerseeth, Johan L., assignor of one-half to E. Roald, Aalesund, Norway. Gip-cutting machine. No. 1,409,943; Mar. 21.
- Glabaznya, Rudolph L., Chicago, Ill. Wrench. No. 1,428,282; Sept. 5.
- Glacier Refrigerating Machine Co. (See Girard, Alfred O., assignor.)
- Glackin, Daniel T., Chicago, Ill., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,403,075; Jan. 10.
- Glackin, Edward J., Chicago, Ill. Cushion mechanism. No. 1,418,912; June 6.
- Gladish, Harry E., Higginsville, Mo. Motor chair. No. 1,429,213; Sept. 12.
- Gladu, Albert E., Lynn, Mass. Resilient tire. No. 1,040,111; Jan. 17.
- Glaeser, Martin T., Chicago, Ill. Incubator. No. 1,420,092; June 20.
- Glaeser, Walter, Brooklyn, N. Y. Extraction of soluble potassium compounds from potassium-containing silicates. No. 1,409,139; Mar. 7.
- Glaeser, Walter, Brooklyn, assignor to Potash Extraction Corporation, New York, N. Y. Extraction of potassium compounds. No. 1,422,848; July 18.
- Glafcke, Charles L., Michigan City, Ind. Cobbling outfit. No. 1,426,289; Aug. 15.
- Glafcke, Paul H., Cheyenne, Wyo. Nonskid device. No. 1,402,855; Jan. 10.
- Glahn, Dr. Kurt. (See Mehn, Herrmann, assignor.)
- Glancey, Joseph A., Rock Island, Ill. Direction-indicating signal. No. 1,424,813; Aug. 8.
- Glancey, Patrick J., Scranton, Pa. Screen-door hinge. No. 1,408,583; Mar. 7.
- Gardon, Edouard C., Hamburg, Germany. Joint binder. No. 1,425,470; Aug. 8.
- Glasel, Charles J., assignor, by mesne assignments, to L. H. Glasel, New York, N. Y. Loading and unloading machine. No. 1,411,342; Apr. 4.
- Glasel, Charles J., assignor, by mesne assignments, to L. H. Glasel, New York, N. Y. Treating hides and hide-treating apparatus. No. 1,414,404; May 2.
- Glasel, Luise H. (See Glasel, Charles J., assignor.)
- Glaser, Hugo, St. Paul, Minn. Piston. No. 1,417,514; May 30.
- Glaser, John F., Chicago, Ill. Door-holding device. No. 1,433,271; Oct. 24.
- Glaser, Oscar L., assignor of one-half to J. F. Blything, Oak Park, Ill. Safety razor. No. 1,423,414; July 18.
- Glaser, Rudolph, Haledon, N. J. Let-off mechanism for looms. No. 1,414,873; May 2.
- Glaser, William, assignor to A. G. McCaleb, Chicago, Ill. Telegraphic signal transmitter. No. 1,437,237; Nov. 28.
- Glasgow, Arthur C., Decatur, Ill. Coal-feeding mechanism. No. 1,431,944; Oct. 17.
- Glasgow, James H., South Bend, Ind. Fountain mixing tool. No. 1,408,584; Mar. 7.
- Glasgow, Ruth. (See McDermott, F. A., and Glasgow.)
- Glasner, John, Estill Springs, assignor of one-half to J. K. Williams, Fayetteville, Tenn. Load locking and releasing means for overhead carriers. No. 1,433,368; Oct. 24.
- Glasner, John, Estill Springs, assignor of one-half to J. K. Williams, Fayetteville, Tenn. Load locking and releasing means for overhead carriers. No. 1,433,369; Oct. 24.
- Glasner, Rudolph W. (See Strand, David, assignor.)
- Glasner, Rudolph W., Chicago, Ill. Die cushion. No. 1,434,949; Nov. 7.
- Glass, Charles F., Brooklyn, N. Y., assignor to Finger-print Machine Corporation. Finger-print composition. No. 1,429,338; Sept. 19.
- Glass, Ernest, Reading, Pa. Gearing. No. 1,427,374; Aug. 29.
- Glass, George, Milwaukee, Wis. Conveyer. No. 1,426,179; Aug. 15.
- Glass, George, Milwaukee, Wis., assignor to Sprague Canning Machinery Company, Chicago, Ill. Fruit washer. No. 1,402,490; Jan. 3.
- Glass, Harry, Jamaica, N. Y. Self-adjusting bearing. No. 1,422,961; July 18.
- Glass, Jacob W. H., Reading, Pa. Folding ironing table. No. 1,408,880; Mar. 7.
- Glass, John E., Marion, Ky. Mail-exchange device. No. 1,418,252; May 30.
- Glass, Joseph J. (See Keehan, M. E., and Glass.)
- Glass, Matthew, Philadelphia, Pa. Holder. No. 1,423,415; July 18.
- Glass, P. R. Company. (See Glass, Perley R., assignor.)
- Glass, Perley R., Brookline, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-covering trimming apparatus. No. 1,406,370; Feb. 14.
- Glass, Perley R., Wayland, assignor to P. R. Glass Company, Boston, Mass. Folding machine. No. 1,406,371; Feb. 14.
- Glass, Robert E., Columbus, Ohio. Burial crypt. No. 1,427,458; Aug. 29.
- Glasser, Maurice M., Charleston, S. C. Ceiling fan. No. 1,409,090; Mar. 7.
- Gläser, Otto, Lubeck, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Tinning of sheet metal. No. 1,431,223; Oct. 10.
- Glasser, Richard, San Francisco, Calif. Extensible ladder for fire escapes. No. 1,423,104; July 18.

Alphabetical list of patentees—Continued.

- Glassmann, Arthur E. (See Bartha, J., and Glassmann.)
 Glassmann-Bartha Welding Corp. (See Bartha, J., and Glassmann, assignors.)
 Glauber, August. (See McCormick, H. S., and Glauber.)
 Glauber, Morris H. (See Fischer, Arthur I., assignor.)
 Glandel, George, Los Angeles, assignor of one-half to G. L. Mitchell, Santa Monica, Calif. Windshield attachment. (Reissue.) No. 15,433; Aug. 22.
 Glau, Ellen L., Detroit, Minn. Infant's collapsible bed. No. 1,412,177; Apr. 11.
 Glaze, Herbert L. (See Routt, O. L., McConnell, and Glaze.)
 Glaze, Herbert L., assignor to Plastoid Products, Incorporated, Los Angeles, Calif. Paper-folding machine. No. 1,411,779; Apr. 4.
 Glazebrook, Thomas L., et al. (See Callaghan, George H. and J. L., assignors.)
 Glazebrook, Thomas L., Minneapolis, Minn. Hay-sling take-up. No. 1,407,406; Feb. 21.
 Glazer, Henry H. (See Thaler, W. L., and Glazer.)
 Gleason, C. Roy. (See Fate, John L., assignor.)
 Gleason, C. Roy, Chicago, Ill. Vacuum-insulated can. No. 1,437,647; Dec. 5.
 Gleason, Francis J., St. Johnsbury, Vt. Wire stretcher. No. 1,406,846; Feb. 14.
 Gleason, Harry E., Shamrock, Okla. Shock absorber. No. 1,433,812; Oct. 31.
 Gleason, James E., assignor to Gleason Works, Rochester, N. Y. Gear-cutting machine. No. 1,406,001; Feb. 7.
 Gleason, John W., Schenectady, N. Y. Spark plug. No. 1,436,760; Nov. 28.
 Gleason, M. H., et al. (See Owen, Robert H., assignor.)
 Gleason Works. (See Gleason, James E., assignor.)
 Gleason Works. (See Stewart, A. L., and Finsen, assignors.)
 Gleason Works. (See Stewart, A. L., and Head, assignors.)
 Gledhill, Edward C., Galion, Ohio. Turning device for motor vehicles. No. 1,430,545; Oct. 3.
 Gleichen, Alexander, Berlin, assignor to Firm Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Toric spectacle lens. No. 1,438,820; Dec. 12.
 Gleichen, Alexander, Berlin, assignor to Firm Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Eyeglasses. No. 1,438,821; Dec. 12.
 Gleichrichter-Aktiengesellschaft. (See Schäfer, Béla B., assignor.)
 Glitz, Wilhelm, deceased, by G. Kapmeyer, administrator, Hamburg, Germany. Removing acids from glycerides. No. 1,408,804; Mar. 7.
 Glendon, John, Malden, Mass. Folding machine. No. 1,405,776; Feb. 7.
 Glenfield Mills. (See Schofield, Clement L., assignor.)
 Glenham Embroidery Company. (See Herzog, Louis, assignor.)
 Glenn, George A., Lawndale, Pa. Means for making bricks. No. 1,435,463; Nov. 14.
 Glenn, Jettie F., Fort Pierce, Fla. Hat holder. No. 1,410,468; Mar. 21.
 Glenn, Robert L. (See Marx, Leopold, assignor.)
 Glenn, William H., El Paso, Tex. Mop. No. 1,431,391; Oct. 10.
 Glennon, Joseph R., and L. Dupuis, New Bedford, Mass.; said Dupuis assignor to said Glennon. Doffer guard and oil-well cover for spindle supports for spinning and like machines. No. 1,425,521; Aug. 15.
 Glennon, William K. (See Shaw, A., and Glennon.)
 Glenny, Charles F., South Kensington, London, England. Apparatus or appliance for use in playing a game of skill. No. 1,404,599; Jan. 24.
 Glenora Harmonica Company. (See Dusenberre, George B., assignor.)
 Glenzer, John C., Detroit, Mich. Counterbore. No. 1,407,328; Feb. 21.
 Gleockler, Harry C., Schuylkill Haven, Pa. Metal-etching compound. No. 1,418,253; May 30.
 Glessner, Charles E., Portland, Oreg. Tank and closure. No. 1,421,454; July 4.
 Glessner, Charles E., Portland, Oreg. Vacuum container. No. 1,421,685; July 4.
 Glick, Enos, Paris, Ill. Nose ring. No. 1,424,563; Aug. 1.
 Glickerman, Jacob I., Chicago, Ill. Tire gauge. No. 1,416,814; May 23.
 Glickman, Samuel. (See Bartle, G., Glickman, and Javovitz.)
 Glidden, Alfred A., Watertown, T. E. La Fayette, Wellesley, and J. J. Gaughan, Cambridge, assignors to Hood Rubber Company, Watertown, Mass. Making rubber footwear. No. 1,435,636; Nov. 14.
 Glidden Company, The. (See French, E. H., Withrow, and Allen, assignors.)
 Glidden, Harvey L., Needham, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe rack and making it. No. 1,419,250; June 13.
 Glidden, Raymond B., assignor to Kewanee Implement Company, Kewanee, Ill. Watering appliance. No. 1,429,584; Sept. 19.
 Glidden, Sewell A., Augusta, Me. Antiskid attachment for vehicle wheels. No. 1,431,392; Oct. 10.
 Gliedman, Selig, New York, N. Y. Cap. No. 1,420,032; June 20.
 Glisci, Vito, Waterbury, Conn. Automatic dispensing water cooler. No. 1,407,264; Feb. 21.
 Globe Automatic Sprinkler Company. (See Evans, Powell, assignor.)
 Globe Automatic Sprinkler Company. (See Rowley, Arthur C., assignor.)
 Globe Optical Company. (See Presby, Leroy Q., assignor.)
 Globe Paper Box Company. (See Schwenneke, Hans, assignor.)
 Globe Stove & Range Co., The. (See Hamlin, L. R., and Jackson, assignors.)
 Globe Stove & Range Company, The. (See Hamlin, Louis R., assignor.)
 Glocker, Carl F., Brooklyn, N. Y. Combination bed. No. 1,435,960; Nov. 21.
 Glogauer, Fritz. (See Jüngmans, H., and Glogauer.)
 Glogowski, Michael J. (See Gula, W., and Glogowski.)
 Gloor, Albert B., Paterson, N. J. Tension device for shuttles. No. 1,409,705; Mar. 14.
 Glorian, Charles. (See Hermoye, O., and Glorian.)
 Glorie Underwear Mill et al. (See Bauscher, S. D., and Reed, assignors.)
 Glos, Harold V. (See Smith, E. J., and Glos.)
 Gloub, John. (See Spitzer, C. S., and Gloub.)
 Glover, Charles G., Watertown, Mass. Casing and stand. No. 1,407,526; Feb. 21.
 Glowacki, John B., Chicago, Ill. Fuse cartridge. No. 1,435,155; Nov. 14.
 Gluck, Abraham M., New York, N. Y. Guard sole for shoes. No. 1,404,600; Jan. 24.
 Gluck, Julius. (See Heinrich, F., and Gluck.)
 Gmeinder, Anton, Mosbach, Baden, assignor to Dortmund Vulkan Aktiengesellschaft, Dortmund, Germany. Helical-spring friction clutch with auxiliary clutch. No. 1,416,283; May 16.
 Gniffe, Paul, assignor to Railway Electric Manufacturing Co., Milwaukee, Wis. Selector. No. 1,413,329; Apr. 18.
 Gobel, Lewis B., Maysville, Mo. Traction wheel. No. 1,411,692; Apr. 4.
 Gobetz, Lafayette C., Brooklyn, N. Y. Alarm mechanism for radiator tanks. No. 1,430,073; Sept. 26.
 Goble, Bert G., Tulsa, Okla. Inner tube. No. 1,424,162; Aug. 1.
 Goblet, Peter, assignor to All-Steel-Equip Company, Aurora, Ill. Hinge. No. 1,420,481; June 20.
 Gochenour, Benjamin C., Spokane, Wash. Lawn edger. No. 1,422,693; July 11.
 Gockel, Heinrich, Neuweid-on-the-Rhine, Germany. Rolled iron bar. No. 1,422,694; July 11.
 Godal, Arne, Vestre Aker, near Christiania, Norway. Producing sulpho-aromatic substances for use in the decomposition of fats. No. 1,416,284; May 16.
 Godchaux, Aline M., New Orleans, La. Brassière. No. 1,426,727; Aug. 22.
 Goddard, George N., Newton, Mass. Cap-spinning device. No. 1,434,003; Oct. 31.
 Goddard, Karl B. (See Cooke, Frank V., assignor.)
 Goddard, Paul B. (See Minshull, Robert, assignor.)
 Goddard, Stewart, Toronto, Ontario, Canada. Tire chain. No. 1,418,373; June 6.
 Goddard, Walter T., Hamilton, Ontario, Canada, assignor, by mesne assignments, to Locke Insulator Corporation, Baltimore, Md. Strain insulator. No. 1,406,953; Feb. 14.
 Goddard, Walter T., Hamilton, Ontario, Canada, assignor, by mesne assignments, to Locke Insulator Corporation, Baltimore, Md. Cement. No. 1,409,091; Mar. 7.
 Goddard, Walter T., Rochester, N. Y., assignor, by mesne assignments, to Locke Insulator Corporation, Baltimore, Md. Insulator. No. 1,426,981; Aug. 22.
 Goddard, William B., Philadelphia, Pa. Closure for containers. No. 1,411,621; Apr. 4.
 Goddard, William B., Philadelphia, Pa. Closure for the heads of metal barrels, drums, and like receptacles. No. 1,438,757; Dec. 12.
 Goddu, George, Winchester, and Fred L. Mackenzie, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Nail-feeding mechanism. No. 1,408,451; Mar. 7.
 Godfrey, Alfred, London, England. Cutting torch. No. 1,420,921; June 27.
 Godfrey, Alfred, London, England. Blowpipe apparatus for cutting metal. No. 1,431,650; Oct. 10.
 Godfrey Conveyor Company, The. (See Godfrey, John F., assignor.)
 Godfrey-Evans, Lewis T., West Norwood, London, England. Internal-combustion engine. No. 1,414,356; May 2.
 Godfrey, John F., assignor to The Godfrey Conveyor Company, Elkhart, Ind. Rope carrier. No. 1,427,949; Sept. 5.
 Godfrey, John F., assignor to The Godfrey Conveyor Co., Elkhart, Ind. Mast saddle. No. 1,427,950; Sept. 5.
 Godfrey, John F., assignor to The Godfrey Conveyor Company, Elkhart, Ind. Clutch mechanism. No. 1,429,280; Sept. 19.
 Godfrey, Truman M., Chicago, Ill., assignor to The N. K. Fairbank Company, Guttenberg, N. J. Manufacture of soap. No. 1,414,015; Apr. 25.
 Godi Di Godio, Alberto. (See Longan y Senan, Emilio, assignor.)
 Godin, George J., Rochester, N. H. Wheel attachment for sleighs or sleds. No. 1,419,558; June 18.

Alphabetical list of patentees—Continued.

- Goding, Edward N., trustee. (See Bell, Louis, assignor.)
- Godkevitch, Abraham H., New York, N. Y. Wooden shipping case. No. 1,423,317; July 18.
- Godlewski, Frank, St. Louis, Mo. Door lock. No. 1,438,525; Dec. 12.
- Godley, Charles E., Detroit, Mich. Focusing device. No. 1,417,053; May 23.
- Godley, Charles E., assignor to Edmunds & Jones Corporation, Detroit, Mich. Headlight-focusing device. No. 1,414,567; May 2.
- Godley, Charles E., assignor to Edmunds & Jones Corporation, Detroit, Mich. Focusing device. No. 1,426,857; Aug. 22.
- Godley, Charles E., assignor to Edmunds & Jones Corporation, Detroit, Mich. Focusing device for headlights. No. 1,426,858; Aug. 22.
- Godley, Charles E., assignor to Edmunds & Jones Corporation, Detroit, Mich. Focusing device for headlights. No. 1,426,859; Aug. 22.
- Godley, Charles E., assignor to Edmunds & Jones Corporation, Detroit, Mich. Headlight. No. 1,429,236; Sept. 19.
- Godley, Charles E., assignor to Edmunds & Jones Corporation, Detroit, Mich. Focusing device. No. 1,435,156; Nov. 14.
- Godley, Charles E., assignor to Edmunds & Jones Corporation, Detroit, Mich. Focusing device. No. 1,439,095; Dec. 19.
- Godsell, William J., Lavina, Mont. Baby hammock. No. 1,431,299; Oct. 10.
- Godsey, Charles W., et al. (See Floyd, William E., assignor.)
- Godsey, French E., et al. (See Floyd, William E., assignor.)
- Goebel, Boyd W., Madison, N. C., assignor of two-thirds to D. B. Fedderwitz, Savannah, Ga. Bed. No. 1,419,624; June 13.
- Goebel, Frank, Petersburg, Nebr. Attachment for self-starting tractors. No. 1,408,286; Feb. 28.
- Goebel, John H., Chicago, Ill. Pouring nozzle for bottles. No. 1,436,708; Nov. 28.
- Goebel, Adolph, and M. A. Elben, Cleveland, Ohio. Filling up subterranean cavities. No. 1,404,112; Jan. 17.
- Goedeke, Frederick W., Evansville, Ind. Corner iron for boxes, baskets, etc. No. 1,431,887; Oct. 10.
- Goedeke, Frederick W., assignor of one-half to H. Mueller, Evansville, Ind. Safety crank catch. No. 1,429,030; Sept. 12.
- Goedert, Mathias J., Adena, Colo. Cogwheel. No. 1,436,652; Nov. 28.
- Goedinghaus, Henry. (See Ballister, T. F., and Goedinghaus.)
- Goehner, August K., Clay Township, St. Joseph County, Ind. Clutch-pedal lock. No. 1,427,285; Aug. 29.
- Goehr, Louis, San Francisco, Calif. Punching jig. No. 1,420,252; June 20.
- Goetz, Hermann, Berlin-Schoneberg, Germany. Stationary grate for furnaces. No. 1,413,400; Apr. 18.
- Goerke, Simon, Milwaukee, Wis. Skate stand. No. 1,435,387; Nov. 14.
- Goerner, Ernst. (See Huebner, Gustav A., assignor.)
- Goerner, George F., Los Angeles, Calif. Apparatus for boring drifts or shafts. No. 1,413,471; Apr. 18.
- Goertz, C. P., American Optical Company. (See Mueller, Emil M., assignor.)
- Goes, Charles B., Chicago, Ill. Display card. No. 1,430,735; Oct. 3.
- Goessling, Frederick W., and J. M. Garrett, assignors to Beehler Steel Products Company, St. Louis, Mo. Box fastener. No. 1,402,758; Jan. 10.
- Goessling, Frederick W., and J. M. Garrett, assignors to Beehler Steel Products Company, St. Louis, Mo. Box fastener. No. 1,402,759; Jan. 10.
- Goetz, Roderick S., and E. S. Rudich, New York, N. Y. Process of and apparatus for coloring meerschaum. No. 1,412,858; Apr. 18.
- Goetz, William, Vancouver, British Columbia, Canada. Releasable hook. No. 1,428,775; Sept. 12.
- Goewey, James E., Newark, N. J., assignor to Diamond Expansion Bolt Company, New York, N. Y. Reversible toggle. No. 1,411,083; Mar. 28.
- Goff, Harold W., New York, N. Y. Toothbrush. No. 1,434,436; Nov. 7.
- Goff, Harold W., assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic step-by-step mechanism. No. 1,403,767; Jan. 17.
- Goff, Harold W., assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic device. No. 1,419,559; June 13.
- Goff, Milton G. (See Hopkes, Henry, assignor.)
- Goffart, Paul, Brussels, Belgium, assignor, by mesne assignments, to Belgian American Coke Ovens Corporation, Wilmington, Del. Coke oven. No. 1,429,281; Sept. 19.
- Goforth, George W. (See Cyrus, Thomas H., assignor.)
- Goheen, Leonard L., Sherwood, N. Dak. Material-saving device. No. 1,429,282; Sept. 19.
- Gohmann, John B., Lincoln, Nebr. Air-purifying apparatus. No. 1,418,296; June 6.
- Gohmann, John B., Lincoln, Nebr. Stove and furnace. No. 1,422,195; July 11.
- Going, George G., assignor to The Noiseless Typewriter Company, Middletown, Conn. Typewriter. No. 1,403,494; Jan. 17.
- Going, William J., Schenectady, N. Y., assignor to The Klauder-Weldon Dyeing Machine Company, Jenkintown, Pa. Dyeing machine. No. 1,407,265; Feb. 21.
- Goit, Whitney, Kansas City, Mo. Ventilating-sash lock. No. 1,438,995; Dec. 19.
- Golber, Hyman, Chicago, and A. F. Poole, Kenilworth, Ill., assignors, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y. Totalizer clear signal. No. 1,426,377; Aug. 22.
- Gold Car Heating & Lighting Company. (See Cousins, John P., assignor.)
- Gold Car Heating & Lighting Company. (See Gold, E. E., and Ivers, assignors.)
- Gold Car Heating & Lighting Company. (See Gold, Edward E., assignor.)
- Gold, Edward E., New York, N. Y. Electric heater. No. 1,416,459; May 16.
- Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Protected thermostat. No. 1,418,913; June 6.
- Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Thermostatic electric control for heating systems. No. 1,424,896; Aug. 8.
- Gold, Edward E., New York, N. Y., and W. H. Ivers, St. Louis, Mo., assignors to Gold Car Heating & Lighting Company, New York, N. Y. Heating system for railway cars. No. 1,402,063; Jan. 3.
- Gold, Egbert H. (See Schreiber, Edward A., assignor.)
- Gold, Egbert H., Chicago, Ill. Heating system for sleeping cars. No. 1,404,360; Jan. 24.
- Gold, Egbert H., Chicago, Ill. Hose coupling gasket. No. 1,409,373; Mar. 14.
- Gold, Robert S., Toronto, Ontario, Canada. Safety device for platen printing presses. No. 1,437,590; Dec. 5.
- Gold, Samuel B., Independence, assignor to Weber Engine Company, Kansas City, Mo. Muffling-breather-valve attachment. No. 1,411,693; Apr. 4.
- Gold, Samuel B., Independence, Mo., assignor to Weber Engine Company, Kansas City, Mo. Starting attachment for two-cycle internal-combustion engines. No. 1,438,437; Dec. 12.
- Gold, William P., assignor of one-half to W. Ryan, Newport, Ky. Bottle holder. No. 1,435,839; Nov. 14.
- Goldbaum, Morris. (See Faruolo, James, assignor.)
- Goldberg, Arthur M., assignor to Electric Controller Company, Inc., Indianapolis, Ind. Electric water heater. No. 1,421,937; July 4.
- Goldberg, Elias T., assignor to R. Goldberg, New York, N. Y. Machine for enlarging rings. No. 1,429,502; Sept. 19.
- Goldberg, Hyman E., (now by judicial change of name H. Golber,) Chicago, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y. Calculating machine. No. 1,404,954; Jan. 31.
- Goldberg, Jacob, assignor to The Goldberg Padding Machine Company, Cincinnati, Ohio. Universal feed mechanism for sewing machines. No. 1,438,593; Dec. 12.
- Goldberg, Louis J., New York, N. Y. Mat. No. 1,483,956; Dec. 19.
- Goldberg, Morris, Brooklyn, N. Y. Attachment for neckscarfs. No. 1,422,758; July 11.
- Goldberg, Morris L., Brooklyn, N. Y. Massaging device. No. 1,438,485; Dec. 12.
- Goldberg Padding Machine Company, The. (See Goldberg, Jacob, assignor.)
- Goldberg, Paul, Berlin-Treptow, P. Onnertz, Berlin-Wilmersdorf, and A. Peters, assignors to Actien Gesellschaft fur Anilin Fabrikation, Berlin, Germany. Protecting animal fibers from the injurious effect of alkaline liquids. No. 1,419,497; June 13.
- Goldberg, Rose. (See Goldberg, Elias T., assignor.)
- Goldberg, Samuel, assignor to Universal Fixture Corporation, New York, N. Y. Display fixture. No. 1,432,286; Oct. 17.
- Goldberg, Samuel, assignor to Universal fixture corporation, New York, N. Y. Display fixture. No. 1,432,287; Oct. 17.
- Goldberg, Samuel, South Boston, and L. P. Solberg, Dorchester, Mass., assignors to I. J. Halpern, New York, N. Y. Clapper. No. 1,438,304; Dec. 12.
- Goldberg, Solomon H. (See Hermsdorf, Walter H., assignor.)
- Goldberg, Solomon H., Chicago, Ill. Machine for making hairpins or similar articles. No. 1,424,473; Aug. 1.
- Goldberg, Solomon H., assignor to The Hump Hairpin Manufacturing Company, Chicago, Ill. Machine for forming hairpins or similar articles. No. 1,414,080; Apr. 25.
- Goldberg, Solomon H., assignor to The Hump Hairpin Manufacturing Company, Chicago, Ill. Hairpin box. No. 1,424,471; Aug. 1.
- Goldberg, Solomon H., assignor to The Hump Hairpin Manufacturing Company, Chicago, Ill. Tube-cutting mechanism. No. 1,424,472; Aug. 1.
- Goldberger, Ernest, Detroit, Mich. Detachable lug for tractors. No. 1,402,856; Jan. 10.
- Goldberger, Morris, assignor to Cresco-Creamery Supply Co., Chicago, Ill. Pasteurizer. No. 1,438,594; Dec. 12.

Alphabetical list of patentees—Continued:

- Goldberger, Samuel. (See Schou, Gustav B., assignor.)
 Goldblatt, Charles L., Brooklyn, N. Y. Window-operating device. No. 1,421,938; July 4.
 Golde, Alfred, Gera, Germany. Supporting frame for windshields. No. 1,418,643; June 6.
 Golde, Richard E. (See Oelsner, Anton, assignor.)
 Golden, Alphonsus L., Oakland, assignor to National Radio Company, San Francisco, Calif. Oscillator. No. 1,431,393; Oct. 10.
 Golden, John R., Hammond, Ind. Automatic railway-crossing gate. No. 1,438,822; Dec. 12.
 Golden, Timothy J., Jacksonville, Fla. Signal device for automobiles. No. 1,412,206; Apr. 11.
 Goldenbaum, Frederick C., Kearny, N. J., assignor to International Printing Plate Company, Inc., New York, N. Y. Forming celluloid printing plates. No. 1,422,696; July 11.
 Goldfield, Abraham T., Spring Valley, assignor to Spring Valley Metal Stamping Corporation, New York, N. Y. Platform for trucks. No. 1,409,092; Mar. 7.
 Goldich, David, Winsted, Conn. Electric-fixture fitting and making same. No. 1,407,527; Feb. 21.
 Goldman, Benjamin T., St. Paul, Minn. Hair-treating kit. No. 1,403,114; Jan. 10.
 Goldman, Max, New York, N. Y. Refrigerator. No. 1,410,563; Mar. 28.
 Goldman, Max M., Somerville, and E. R. Thayer, Brighton, Mass. Employment rating sheet. No. 1,432,177; Oct. 17.
 Goldman, Rutherford G., Los Angeles, Calif. Lubricating system. No. 1,406,847; Feb. 14.
 Goldman, Sigmund L., Chicago, Ill. Bottle capper. No. 1,420,836; June 27.
 Goldman, Sigmund L., Chicago, Ill. Bottle-capping device. No. 1,431,651; Oct. 10.
 Goldman, Sigmund L., Chicago, Ill. Supporting frame for filter bags. No. 1,435,637; Nov. 14.
 Goldman, Sigmund L., Chicago, Ill. Bottle-capping device. No. 1,437,890; Dec. 5.
 Goldner, Simon and S. G., New York, N. Y. Combination cleaning receptacle and stool. No. 1,431,888; Oct. 10.
 Goldner, Stella G. (See Goldner, Simon and S. G.)
 Goldrick, Albert R., assignor to Motor Terminals Company, Cleveland, Ohio. Device for connecting elevating cables to load carriers. No. 1,431,945; Oct. 17.
 Goldrick, Albert R., assignor to The Elwell-Parker Electric Company, Cleveland, Ohio. Load-securing means for industrial trucks. No. 1,439,233; Dec. 19.
 Goldring, Mendel. (See Klemmer, Benjamin, assignor.)
 Goldschmidt, Hans. (See Stock, A., and Goldschmidt.)
 Goldschmidt, Hans, and K. Müller, Essen, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Zinc alloy. No. 1,421,686; July 4.
 Goldschmidt, Rudolf, Berlin, Germany, assignor to Det Tekniske Forsøgsaktieselskab, Ordurp Charlottenlund, Denmark. Mechanism for converting rotary into reciprocatory motion. No. 1,410,010; Mar. 21.
 Goldschmidt, Rudolf, Berlin, Germany, assignor to Det Tekniske Forsøgsaktieselskab, Charlottenlund, Denmark. Vibrating wing for flying machines. No. 1,412,346; Apr. 11.
 Goldschmidt, Rudolf, Berlin, Germany, assignor to Det Tekniske Forsøgsaktieselskab, Ordurp Charlottenlund, Denmark. Mechanism for converting rotary into reciprocatory motion. No. 1,415,335; May 9.
 Goldschmidt, Rudolf, Westend, Berlin, Germany, assignor to Det Tekniske Forsøgsaktieselskab, Charlottenlund, Denmark. Flying machine. No. 1,431,111; Oct. 3.
 Goldschmidt, Victor M., assignor to Titan Co. A/S., Christiania, Norway. Titanium pigment and producing same. No. 1,436,164; Nov. 21.
 Goldschmidt, Victor M., and O. Ravner, assignors to Det Norske Aktieselskab for Elektrokemisk Industri, Christiania, Norway. Producing alumina poor in iron. No. 1,413,720; Apr. 25.
 Goldsmith, Alfred N., New York, N. Y., assignor to General Electric Company. Signaling system. No. 1,404,756; Jan. 31.
 Goldsmith, Alfred N., New York, N. Y., assignor, by mesne assignments, to Radio Corporation of America. Method and apparatus for receiving sustained wave signals. No. 1,432,455; Oct. 17.
 Goldsmith, Alfred N., New York, N. Y., assignor, by mesne assignments, to Radio Corporation of America. Method and apparatus for transmitting sustained wave signals. No. 1,432,456; Oct. 17.
 Goldsmith, Amy R., Portland, Oreg. Removable chair attachment. No. 1,429,867; Sept. 19.
 Goldsmith Bros. Smelting & Refining Co. (See Bowman, Walter H., assignor.)
 Goldsmith, Charles E., San Francisco, Calif. Stump puller. No. 1,440,008; Dec. 26.
 Goldsmith, Emanuel O., Memphis, Tenn. Tie rack and cover. No. 1,424,564; Aug. 1.
 Goldsmith, Emanuel O., Memphis, Tenn. Floor lamp. No. 1,433,370; Oct. 24.
 Goldsmith, Herman, assignor to The American Tobacco Company, New York, N. Y. Vacuum container. No. 1,418,914; June 6.
 Goldsmith, Hugo, Cincinnati, Ohio. Abdominal protector. No. 1,421,077; June 27.
 Goldsmith, Joseph, Seattle, Wash. Ice-cream-can holder. No. 1,407,853; Feb. 28.
 Goldsmith, Joseph, Jr., Chicago, Ill. Hair-curling device. No. 1,406,639; Feb. 14.
 Goldsmith, Joseph, Jr., Chicago, Ill. Hair curler. No. 1,424,897; Aug. 8.
 Goldsmith, Joseph, Jr., Chicago, Ill. Hair-curling device. No. 1,434,489; Nov. 7.
 Goldsmith, Orvie, Millerton, N. Y. Caution device for automobiles. No. 1,406,848; Feb. 14.
 Goldson, William H., Oakland, Calif. Boat. No. 1,412,517; Apr. 11.
 Goldspink, Archibald E., London, England. Player-piano. No. 1,402,595; Jan. 3.
 Goldstein, Abraham S., assignor to Time-Rite Manufacturing Company, Baltimore, Md. Timer. No. 1,419,042; June 6.
 Goldstein, Benjamin H. (See Armathes, Joseph F., assignor.)
 Goldstein, Bernard, Toronto, Ontario, Canada. Cuff button. No. 1,433,715; Oct. 31.
 Goldstein, Charles M., New York, N. Y., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Phonographic machine. No. 1,408,585; Mar. 7.
 Goldstein, David J., et al. (See Bannigan, John P., assignor.)
 Goldstein, Harry B., St. Paul, Minn. Form for hat crowns. No. 1,432,995; Oct. 24.
 Goldstein, Harry B., St. Paul, Minn. Portable stove. No. 1,432,996; Oct. 24.
 Goldstein, Henry G., Cleveland, Ohio. Fastening device. No. 1,425,006; Aug. 8.
 Goldstein, Isadore, New York, N. Y. Tonometer. No. 1,419,134; June 13.
 Goldstone, Max, New Haven, Conn. Burglar alarm. No. 1,440,219; Dec. 26.
 Goldthwaite, Charles F., Duluth, Minn., assignor to Klear-flax Linen Rug Company. Rug corner. No. 1,430,981; Oct. 3.
 Golein, Mark, Brooklyn, N. Y. Combination tire and wheel. No. 1,403,115; Jan. 10.
 Golieb, Morris L. (See Silverman, H., and Golieb.)
 Golling, Benjamin C. (See Greer, L. C., and Golling.)
 Golligly, William E., Ingham, Queensland, Australia. Device for preventing backfire in the carburetor or inlet pipe of internal-combustion engines. No. 1,414,081; Apr. 25.
 Golobich, Joseph. (See Smothers, E. J., Banks, and Golobich.)
 Golphin, Robert, Brownsburg, Quebec, Canada. Automobile tire chain. No. 1,412,859; Apr. 18.
 Golphin, Robert, Brownsburg, Quebec, Canada. Chain tightener. No. 1,439,096; Dec. 19.
 Gomersall, John W., Manchester, England. Rubber-forming machine. No. 1,422,561; July 11.
 Gomes, Arthur E., Peoria, Ill. Mattress. No. 1,423,416; July 18.
 Gomez, Gines P., Miami, Ariz. Drill carriage. No. 1,403,315; Jan. 10.
 Gompers, Edward E., L. Weyl, and P. Hein, New York, N. Y. Stencil-making machine. No. 1,425,248; Aug. 8.
 Gong Bell Manufacturing Company. (See Watrous, Clifford M., assignor.)
 Gonnella, Umberto, North Plainfield, N. J. Container-sealing means. No. 1,404,113; Jan. 17.
 Gonware, Daniel F., assignor of one-half to F. Wachman, Chicago, Ill. Wear plates for journal boxes of locomotives and analogous constructions. No. 1,433,685; Oct. 31.
 Gonzalez, Eduardo, Santa Barbara, Calif. Collar. No. 1,412,931; Apr. 18.
 González, Juan O., Mexico, Mexico. Electric oven. No. 1,404,361; Jan. 24.
 Gonzalez, Juan O., Mexico, Mexico. Speed indicator for vehicles. No. 1,439,234; Dec. 19.
 Gonzalez, Miguel, New York, N. Y. Ice box. No. 1,425,854; Aug. 15.
 Gonzalez, Ramon, Manila, Philippine Islands. Boiler-diagramming apparatus. No. 1,403,156; Jan. 10.
 Gooch, James W., Shamrock, Tex. Shock absorber. No. 1,439,307; Dec. 19.
 Good Invention Co. (See Good, John, assignor.) (Re-issue.)
 Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Carbureting apparatus. No. 1,405,777; Feb. 7.
 Good, John, Brooklyn, N. Y., assignor to Good Inventions Co., New York, N. Y. Liquid-fuel burner. No. 1,413,113; Apr. 18.
 Good, John, Garden City, assignor to Good Inventions Co., Brooklyn, N. Y. Internal-combustion-engine valve (Reissue.) No. 15,382; June 13.
 Good, John, Garden City, assignor to Good Inventions Co., Brooklyn, N. Y. Rotary valve. (Reissue.) No. 15,430; Aug. 8.
 Good, John, Garden City, assignor to Good Inventions Co., New York, N. Y., Intake burner apparatus. No. 1,431,910; Oct. 10.
 Good, Robert, Washington, Pa., assignor to Hazel Atlas Glass Co. Method of and apparatus for the manufacture of glass. No. 1,421,210; June 27.

- Good, Robert, Washington, Pa., assignor to Hazel Atlas Glass Co. Manufacture of glass. No. 1,421,211; June 27.
- Good, Robert F., New York, N. Y. Illuminating device for reproducing machines. No. 1,424,352; Aug. 1.
- Goodart, Gus, Latuda, Utah. Switch-point connector. No. 1,415,336; May 9.
- Goodbar, Nathan H., Los Angeles, Calif. Lawn sprinkler. No. 1,419,843; June 13.
- Goode, Arthur, San Saba, Tex. Harrow attachment for cultivators. No. 1,433,813; Oct. 31.
- Goodell, George H., St. Paul, Minn. Movable counter-balance. No. 1,419,372; June 13.
- Goodenberger, Daniel E., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Method and apparatus for constructing tires. No. 1,438,231; Dec. 12.
- Goodfellow, Allan W., Perdue, Saskatchewan, Canada. Whip. No. 1,433,200; Oct. 24.
- Goodfellow, Joseph. (See Chapman, Charles E., assignor.)
- Goodfellow, Magnus, assignor to The Ever Ready Company (Great Britain) Limited, London, England. Electric flash lamp. No. 1,404,362; Jan. 24.
- Goodfield, Edward, Brooklyn, N. Y. Illuminated costumer. No. 1,439,668; Dec. 19.
- Goodger, Blaine. (See Pittenger, Charles E., assignor.)
- Goodie, Fred J., assignor of one-half to B. W. Decatur, Springfield, Mass. Nut lock. No. 1,411,720; Apr. 4.
- Goodin, George N., Macon, Ga., assignor of one-half to H. B. Grimshaw, Portsmouth, Va. Underframe and draft-arm connection. No. 1,422,562; July 11.
- Gooding, Harold S., Medford, Mass. Cap. No. 1,422,435; July 11.
- Goodman, Charles J., Philadelphia, Pa. Winding device for motors of talking and other machines. No. 1,417,814; May 23.
- Goodman, Joseph, Hayes, England. Protective means for electrical apparatus having windings. No. 1,406,002; Feb. 7.
- Goodman, Lazure L., assignor to Real Silk Hosiery Mills, Indianapolis, Ind. Container and display structure. No. 1,432,457; Oct. 17.
- Goodman Manufacturing Company. (See Davis, Charles E., assignor.)
- Goodman Manufacturing Company. (See Farnham, Sidney W., assignor.)
- Goodman Manufacturing Company. (See Gallacher, Christopher, assignor.)
- Goodman Manufacturing Company. (See Packer, Glenn W., assignor.)
- Goodman Manufacturing Company. (See Pratt, Charles A., assignor.)
- Goodman Manufacturing Company. (See Pray, Thomas E., assignor.)
- Goodman Manufacturing Company. (See Segler, Albert H., assignor.)
- Goodman Manufacturing Company. (See Sloane, William W., assignor.)
- Goodman, Philip L., Chicago, Ill. Garbage reducer and distillator. No. 1,419,135; June 13.
- Goodman, Vyvian E., Finsbury, London, assignor of two-thirds to Waterlow and Sons, Limited, London, England. Means for rendering the alteration of documents capable of detection. No. 1,417,820; May 30.
- Goodner, James A., Rocky Ford, Colo. Pump. No. 1,434,741; Nov. 7.
- Goodnough, Joe L. (See Jones, J. E., and Goodnough.)
- Goodnow, Wallace F. (See Hood, R. M., and Goodnow.)
- Goodreau, Evarist, Cordova, Alaska. Vise. No. 1,430,226; Sept. 26.
- Goodrich, B. F., Company, The. (See Ayres, Hiram D., assignor.)
- Goodrich, B. F., Company, The. (See Butler, James L., assignor.)
- Goodrich, B. F., Company, The. (See Chandler, Albert L., assignor.)
- Goodrich, B. F., Company, The. (See Dales, Benton, assignor.)
- Goodrich, B. F., Company, The. (See Delzell, Harold W., assignor.)
- Goodrich, B. F., Company, The. (See Evans, W. W., and Dales, assignors.)
- Goodrich, B. F., Company, The. (See Failey, John M., assignor.)
- Goodrich, B. F., Company, The. (See Fair, Irvin E., assignor.)
- Goodrich, B. F., Company, The. (See Gammeter, John R., assignor.)
- Goodrich, B. F., Company, The. (See Geer, William C., assignor.)
- Goodrich, B. F., Company, The. (See Hennessy, James F., assignor.)
- Goodrich, B. F., Company, The. (See Hoffman, Harry A., assignor.)
- Goodrich, B. F., Company, The. (See Humelbau, Robert J., assignor.)
- Goodrich, B. F., Company, The. (See Kepler, Irwin F., assignor.)
- Goodrich, B. F., Company, The. (See Kimentt, Waldemar D., assignor.)
- Goodrich, B. F., Company, The. (See Kuentzel, Curt, assignor.) (Reissue.)
- Goodrich, B. F., Company, The. (See MacDonald, Frank J., assignor.)
- Goodrich, B. F., Company, The. (See Merrill, Allan B., assignor.)
- Goodrich, B. F., Company, The. (See Moon, Alfred E., assignor.)
- Goodrich, B. F., Company, The. (See Pierce, Robert C., assignor.)
- Goodrich, B. F., Company, The. (See Pigeon, Ernest A., assignor.)
- Goodrich, B. F., Company, The. (See Robb, Arthur A., assignor.)
- Goodrich, Chauncey M., Cottam, Ontario, Canada. Building construction. No. 1,418,297; June 6.
- Goodrich, Etta H., Norwich, N. Y. Convertible automobile body. No. 1,437,751; Dec. 5.
- Goodrich, George E., Providence, R. I. Fastener. No. 1,439,812; Dec. 26.
- Goodrich, John F., Chicago Ill. Apparatus and process for raising vehicles. No. 1,412,932; Apr. 18.
- Goodrich, Ralph B., Cincinnati, Ohio. Valve grinder. No. 1,437,936; Dec. 5.
- Goodridge Battery Co. (See Goodridge, Victor C., assignor.)
- Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Hinge joint. No. 1,422,048; July 4.
- Goodridge, Victor C., Chicago, Ill., assignor to Goodridge Battery Co. Reversible battery. No. 1,436,873; Nov. 28.
- Goodrum, Charles L. (See Clausen, H. P., and Goodrum.)
- Goodrum, Charles L. (See Lattig, J. W., and Goodrum.)
- Goodrum, Charles L., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,412,734; Apr. 11.
- Goodrum, Charles L., assignor, by mesne assignments, to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone-exchange system. (Re-issue.) No. 15,389; June 20.
- Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical registering system. No. 1,436,165; Nov. 21.
- Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching device. No. 1,438,758; Dec. 12.
- Goodsell, Harry H., Vandergrift, Pa. Annealing box. No. 1,421,212; June 27.
- Goodson, Stephen A., Hillsboro, Ill. Beet topper. No. 1,420,482; June 20.
- Goodwin, Adam M., Wilkensburg, Pa. Reversing mechanism. No. 1,421,213; June 27.
- Goodwin, Arthur N., and W. Sutherland, Montreal, Quebec, Canada. Dirigible headlight. No. 1,416,014; May 16.
- Goodwin, Aubrey R., Melrose, assignor to Chelsea Radio Co., Chelsea, Mass. Variable grid resistance. No. 1,420,189; June 20.
- Goodwin, Charles B., and W. T. Thurmond, Huntington, W. Va., assignors to Mancha Storage Battery Locomotive Company, St. Louis, Mo. Electric headlight. No. 1,435,002; Nov. 7.
- Goodwin, Charles E., Seattle, Wash. Mechanical toy insect gun. No. 1,425,249; Aug. 8.
- Goodwin, Earl H. (See Evans, John E., assignor.)
- Goodwin, Edward W., assignor to General Motors Corporation, Detroit, Mich. Fastening device for automobile tops. No. 1,434,351; Oct. 31.
- Goodwin, George A., Dayton, Ohio. Gun silencer, flash cover, and recoil check. No. 1,427,802; Sept. 5.
- Goodwin, George E., Concord, N. H. Anti-theft device for automobiles. No. 1,409,845; Mar. 14.
- Goodwin, Hall, Chicago, Ill. Renewable fuse. No. 1,405,682; Feb. 7.
- Goodwin, Harley E., Hartford, Conn. Grass shears. No. 1,432,241; Oct. 17.
- Goodwin, John D. (See Stipes, R. B., Goodwin, and Welch.)
- Goodwin, John M., San Francisco, Calif. Fireplace damper. No. 1,413,472; Apr. 18.
- Goodwin, John M., San Francisco, Calif. Fireplace water back. No. 1,430,982; Oct. 3.
- Goodwin, Norris. (See Poindexter, Robert W., assignor.)
- Goodwin, William G. (See Freedlander, A. L., and Goodwin.)
- Goodwin, William M., Central Square, and L. E. Phillips, Brewerton, N. Y. Bottle stopper. No. 1,432,288; Oct. 17.
- Goodwin, William N., Jr., assignor to Weston Electrical Instrument Company, Newark, N. J. Thermal ammeter. No. 1,407,147; Feb. 21.
- Goodwin, Willis A., Kirksville, Mo. Sand-cleaning machine. No. 1,425,763; Aug. 15.
- Goodyear, Charles H., Cedar Rapids, Iowa, assignor to Missouri Paper Products Company, St. Joseph, Mo. System of keeping notes. No. 1,422,696; July 11.
- Goodyear, Lloyd E., Cedar Rapids, Iowa. Loose-leaf binder. No. 1,415,834; May 9.
- Goodyear Redwood Co. (See Lawson, Davenport, assignor.)
- Goodyear Tire & Rubber Company, The. (See Brown, Harold M., assignor.)
- Goodyear Tire & Rubber Company. (See Bedford, C. W., and Sibley, assignors.)
- Goodyear Tire & Rubber Company, The. (See Bedford, Clayton W., assignor.)

Alphabetical list of patentees—Continued.

- Goodyear Tire & Rubber Company. (See Burdette, Richard S., assignor.)
- Goodyear Tire & Rubber Company, The. (See Cooper, J. F., and Zimmerman, assignors.)
- Goodyear Tire & Rubber Company, The. (See Darrow, Burgess, assignor.)
- Goodyear Tire & Rubber Company, The. (See Day, Ralph B., assignor.)
- Goodyear Tire & Rubber Company, The. (See Dunlap, J. H., and Kilborn, assignors.)
- Goodyear Tire & Rubber Company, The. (See Fuller, Ernest L., assignor.)
- Goodyear Tire & Rubber Company, The. (See Harsel, W. B., and Day, assignors.)
- Goodyear Tire & Rubber Company, The. (See Harsel, William B., assignor.)
- Goodyear Tire & Rubber Company, The. (See Hoover, Clair G., assignor.)
- Goodyear Tire & Rubber Company, The. (See Jenkinson, Ross E., assignor.)
- Goodyear Tire & Rubber Company, The. (See Johnson, Neal M., assignor.)
- Goodyear Tire & Rubber Company, The. (See Kraft, Herman T., assignor.)
- Goodyear Tire & Rubber Company, The. (See Landon, Chauncey L., assignor.)
- Goodyear Tire & Rubber Company, The. (See Lewis, Warren K., assignor.)
- Goodyear Tire & Rubber Company, The. (See Litchfield, Paul W., assignor.)
- Goodyear Tire & Rubber Company, The. (See Maranville, Alger G., assignor.)
- Goodyear Tire & Rubber Company, The. (See Orr, Clifford B., assignor.)
- Goodyear Tire & Rubber Company, The. (See Redford, C. W., and Sibley, assignors.)
- Goodyear Tire & Rubber Company, The. (See Replogle, Mark A., assignor.)
- Goodyear Tire & Rubber Company, The. (See Shaw, A., and Glennon, assignors.)
- Goodyear Tire & Rubber Company, The. (See Snyder, Robert W., assignor.)
- Goodyear Tire & Rubber Company, The. (See State, Will C., assignor.)
- Goodyear Tire & Rubber Company, The. (See Urquhart, W. R., Post, Humphrey, and Van Arsdale, assignors.)
- Goodyear Tire & Rubber Company, The. (See Weyrick, Warren B., assignor.)
- Goodyear Tire & Rubber Company, The. (See Zimmerman, Henry J., assignor.)
- Goodyear Tire & Rubber Co. of Canada Limited. (See Clayton, Lewis J., assignor.)
- Goodyear's India Rubber Glove Manufacturing Company, The. (See McGee, Howard H., assignor.)
- Goodyear's India Rubber Glove Manufacturing Company, The. (See Randall, C. J., and Pierce, assignors.)
- Goodyear's Metallic Rubber Shoe Company, The. (See Randall, C. J., and Taylor, assignors.)
- Goodyear's Metallic Rubber Shoe Company, The. (See Randall, Chester J., assignor.)
- Gooley, Philip E., Syracuse, N. Y. Buffing wheel. No. 1,431,157; Oct. 10.
- Goordman, Elmer O., Norge, Va., assignor to The Efficiency Machine Tool Products Co., Bridgeport, Conn. Self-gripping mandrel. (Reissue.) No. 15,390; June 20.
- Goosman, Aaron C., Rochester, N. Y. Check. No. 1,409,706; Mar. 14.
- Goosmann, Fred H., Cincinnati, Ohio. Centrifugal pump. No. 1,410,564; Mar. 28.
- Goosmann, Justus C., Peoria, Ill. Refrigerating apparatus. No. 1,408,453; Mar. 7.
- Goosmann, Justus C., Peoria, Ill. Oil separator. No. 1,408,454; Mar. 7.
- Goranson, Hjalmar, known as H. Johnson, Sunnyvale, Calif. Liquid-fuel gauge. No. 1,410,469; Mar. 21.
- Gorbitt, Sidney B., Portland, Oreg. Logging engine. No. 1,435,290; Nov. 14.
- Gordan Machine Company. (See Lane, J. D., and Macnaughton, assignors.)
- Gorden, G. Murl, Portland, Oreg. Cash-register system. No. 1,420,311; June 20.
- Gorder, Olaf M., Zumbrota, Minn. Bobsled. No. 1,418,299; June 6.
- Gordinho, Joaquim C., New York, N. Y. Hat. No. 1,411,622; Apr. 4.
- Gordon, Alexander G., Winston-Salem, N. C. Machine for cutting, creasing, and folding. No. 1,439,545; Dec. 19.
- Gordon, Clarke L., Stavelly, Alberta, Canada. Draft equalizer. No. 1,429,868; Sept. 19.
- Gordon, Fannie B. (See Gordon, M. Martin, and F. B.)
- Gordon, Fred W., assignor to Nash Receiver Sight Corporation, New York, N. Y. Sight for firearms. No. 1,405,834; Feb. 7.
- Gordon, Harry S. (See Owler, T. D., and Gordon.)
- Gordon, Hayner H., Washington, D. C., assignor to Electric Auto-Lite Corporation, Toledo, Ohio. Automatic flux control for ignition systems. No. 1,412,933; Apr. 18.
- Gordon, James C., Calgary, Alberta, Canada. Pin-point protector. No. 1,415,835; May 9.
- Gordon, John, Seattle, Wash. Rotary valve. No. 1,434,695; Nov. 7.
- Gordon, Joseph T., New York, N. Y. Toy. No. 1,433,886; Oct. 31.
- Gordon, Leland V. (See Huse, R. C., and Gordon.)
- Gordon, M. Martin, and F. B., Chicago, Ill. Paper toilet box. No. 1,419,671; June 13.
- Gordon, Max, Waterbury, Conn. Watch-crystal gauge. No. 1,404,601; Jan. 24.
- Gordon, Michal, Buffalo, N. Y. Railway signal. No. 1,404,020; Jan. 17.
- Gordon, Robert L. (See Bugbee, L. W., and Gordon.)
- Gordon, Robert L. (See Larkin, J. J., and Gordon.)
- Gordon, Thomas, Perth, Western Australia, Australia. Chassis for motor-cycle side cars. No. 1,425,880; Aug. 8.
- Gordon, Thomas, Perth, Western Australia, Australia. Rear-drive chassis for motor cycles. No. 1,427,731; Aug. 29.
- Gordon, William. (See Thomas, Edwin E., assignor.)
- Gordon, William, Union, N. J. Wrench. No. 1,407,528; Feb. 21.
- Gordon, William A., Shelton, assignor to Birmingham Iron Foundry, Derby, Conn. Machine for refining rubber. No. 1,403,681; Jan. 17.
- Gordon, William R., assignor to The Willys-Overland Company, Toledo, Ohio. Radiator. No. 1,439,959; Dec. 26.
- Gore, Charles, Los Angeles, Calif. Vehicle step. No. 1,437,648; Dec. 5.
- Gore, Charles H., St. Louis, Mo. Safety signal. No. 1,411,780; Apr. 4.
- Gore, Frederick W., Huntington, N. Y. Aircraft. No. 1,422,261; July 11.
- Gore, Thomas, Brooklyn, N. Y. Cable. No. 1,419,560; June 13.
- Gore, Warren W., assignor to Fuller & Johnson Mfg. Co., Madison, Wis. Internal-combustion engine. No. 1,411,343; Apr. 4.
- Gore, William M., Toledo, Ohio, assignor of one-fourth to J. H. French, one-fourth to W. F. Tant, one-fourth to M. T. Watson, and one-fourth to J. G. Hamblen, Jr., Detroit, Mich. Switch box. No. 1,420,694; June 27.
- Gorgellino, Francesco, Turin, Italy. Motion device for automats. No. 1,422,436; July 11.
- Gorham Manufacturing Company. (See North, George H., assignor.)
- Gorin, Fred P., Seattle, assignor to Gorin Shockless Speed Tabulator Company, King County, Wash. Tabulating mechanism for typewriting machines. No. 1,411,997; Apr. 4.
- Gorin Shockless Speed Tabulator Company. (See Gorin, Fred P., assignor.)
- Gorinac, Joseph, Collingwood, Ohio. Liquid container. No. 1,404,021; Jan. 17.
- Gorley, Frank X. (See Harvey, Edward H., assignor.)
- Gorlov, Svend, Miami, Fla., assignor of one-tenth to Swink & Small. Electrical water-heating device. No. 1,436,089; Nov. 21.
- Gorman, George, Springfield, Mass. Plate lifter. No. 1,439,885; Dec. 26.
- Gorman, John F., Spokane, Wash. Display-rack. No. 1,423,417; July 18.
- Gorman, John F., Portland, Oreg. Clutch-releasing mechanism. No. 1,438,486; Dec. 12.
- Gorman, Thomas J., Biggs, Calif. Sack-closing device. No. 1,412,934; Apr. 18.
- Gorman, Thomas J., Philadelphia, Pa. Longitudinal rod adjustment. No. 1,418,298; June 6.
- Gorman, Thomas W., Spokane, Wash. Gas heater and vaporizer. No. 1,424,898; Aug. 8.
- Gorman, Walter J., L. Frankel, and A. A. Wohlgezog, Chicago, Ill. Coupling for electric-light fixtures. No. 1,431,450; Oct. 10.
- Gormely, Walter B. (See Little, H. N., and Gormely.)
- Gormley, Frank L., Brookline, assignor to A. O. Norton, Inc., Boston, Mass. Self-lowering high-speed lifting jack. No. 1,437,752; Dec. 5.
- Gormley, Frank L., Brookline, assignor to A. O. Norton, Inc., Boston, Mass. Self-lowering jack. No. 1,437,753; Dec. 5.
- Gorneau, Adolphe, assignor of one-third to Mrs. C. Gorneau and one-third to S. Gorneau, San Antonio, Tex. Centrifugal separator. No. 1,432,242; Oct. 17.
- Gorneau, Mrs. Clara, et al. (See Gorneau, Adolphe, assignor.)
- Gorneau, Samuel, et al. (See Gorneau, Adolphe, assignor.)
- Gorneau, Samuel, San Antonio, Tex. Automobile signal. No. 1,431,889; Oct. 10.
- Gorowitz, Louis H., New York, N. Y. Fastener for doors and the like. No. 1,413,473; Apr. 18.
- Gorr, Walter, New York, N. Y. Cloth drill. No. 1,417,665; May 30.
- Gorrell, Milo J., and H. S. McLeod, Delphos, Ohio. Automobile top. No. 1,413,474; Apr. 18.
- Gorrell, William R., Alhambra, and H. Barkschat, Los Angeles, Calif. Rail-fastening device. No. 1,402,760; Jan. 10.
- Gorrie, James A., Auckland, New Zealand. Apparatus for splitting logs and the like. No. 1,406,552; Feb. 14.
- Gors, George L., Buffalo, N. Y. Refillable fuse. No. 1,404,114; Jan. 17.
- Gorton-Pew Fisheries Company. (See Gamage, William T., assignor.)
- Gorton, William F., Muncie, Ind. Adjustable push rod or tappet. No. 1,403,682; Jan. 17.

- Goskar, Thomas A., Swansea, Wales. Apparatus for drying coal or other material. No. 1,424,565; Aug. 1.
- Gosmeyer, Frank J., Clear Lake, Minn. Stake and stake holder. No. 1,411,429; Apr. 4.
- Gosnell, Ernest A., Burkburnett, Tex. Clamp. No. 1,410,804; Mar. 28.
- Gosnell, John H., Whitewright, Tex. Radiator cap. No. 1,428,161; Sept. 5.
- Gosney, Robert E., assignor of one-half to H. C. Traver, Bishop, Calif. Quick-changing needle-plate holder. No. 1,436,496; Nov. 21.
- Goss, Charles E. (See Goss, George W. and C. E.)
- Goss, George C. W., New York, N. Y. Basket. No. 1,433,451; Oct. 24.
- Goss, George W. and C. E., Baltimore, Ohio. Wagon gate construction. No. 1,422,962; July 18.
- Gossell, Alphonse J., assignor to Standard Automatic Machine Company, Rochester, N. Y. Vacuum filling machine. No. 1,416,345; May 16.
- Gossett, Donald C. and E. F., Detroit, Mich. Steering wheel and lock therefor. No. 1,414,405; May 2.
- Gossett, Eldon F. (See Gossett, Donald C. and E. F.)
- Goswado Mfg. Company. (See Doub, Fletcher H., assignor.)
- Gotfredsen, Carl, Los Angeles, Calif. Protective shield for mixers and the like. No. 1,412,401; Apr. 11.
- Gotfredsen, Carl, Los Angeles, Calif. Can opener and dispenser. No. 1,426,180; Aug. 15.
- Gotsdanker, Abraham, Brooklyn, N. Y. Watchmaker's compound lathe chuck. No. 1,411,082; Mar. 28.
- Gottlieb, Frederick J., New York, N. Y. Liquid-measuring apparatus. No. 1,433,075; Oct. 24.
- Gottschalk, Albert, assignor to National Pneumatic Company, New York, N. Y. Car-door-operating mechanism. No. 1,424,814; Aug. 8.
- Gottschall, Henrietta H., administratrix. (See Johnson, J. M., and Gottschall.)
- Gottschall, William G., deceased. (See Johnson, J. M., and Gottschall.)
- Gottschau, Christian M., Denver, Colo., assignor, by mesne assignments, to Automatic Non-Rewinding Reel Company. Apparatus for unwinding motion-picture films. No. 1,426,290; Aug. 15.
- Goubert, Floris, Paris, France. Press stud. No. 1,407,854; Feb. 28.
- Goucher, Frederick S., Hammersmith, London, England. Filament for incandescent electric lamps and the like. No. 1,436,717; Nov. 28.
- Goudeau, Wilton J., assignor of one-half to L. J. Quinn, Grider, Ark. Vending machine for grocery commodities and the like. No. 1,403,599; Jan. 17.
- Goudy Gum Co., The. (See Buckley, Ludwig W., assignor.)
- Goudie, Romaine A. (See Schreff, W. H., and Goudie.)
- Goudy, George N., Forestburg, S. D. Shoe fastener. No. 1,404,757; Jan. 31.
- Gough, Achilles C., Pocatello, Idaho. Fan. No. 1,432,060; Oct. 17.
- Gough, Frank E., Oklahoma, Okla. Piston and packing for the same. No. 1,425,641; Aug. 15.
- Gough, Harlen W., Albany, Ind. Tractor. No. 1,438,035; Dec. 5.
- Gough, James J., Chicago, Ill. Shield for motor vehicles. No. 1,413,475; Apr. 18.
- Gould, Charles T. E., Chicago, Ill. Bathtub. No. 1,438,373; Dec. 12.
- Gould Compensating Gear Co., The. (See Lum, Walter O., assignor.)
- Gould Coupler Company. (See Blake, Eli J., assignor.)
- Gould Coupler Company. (See Bouché, W. F., and Blake, assignors.)
- Gould Coupler Company. (See Bouché, William F., assignor.)
- Gould Coupler Company. (See Creveling, John L., assignor.)
- Gould Coupler Company. (See Davis, Donald C., assignor.)
- Gould-Coupler Company. (See Sauvage, William, assignor.)
- Gould Coupler Company. (See Sauvage, William H., assignor.)
- Gould, David. (See Hart, W. H., and Gould.)
- Gould, David F., Cornwalls, Pa., assignor to The Barrett Company. Purifying naphthalene. No. 1,431,394; Oct. 10.
- Gould, Edwin J., Oakland, Calif. Oscillating wheel and driving mechanism. No. 1,426,860; Aug. 22.
- Gould, George M., Madison, S. Dak. Trap. No. 1,422,049; July 4.
- Gould, Herman, assignor of two-thirds to F. Ackermann and J. Geering, New York, N. Y. Feeding gauge for embossing machines. No. 1,437,754; Dec. 5.
- Gould, Jay J., Green Bay, Wis. Garment form. No. 1,439,160; Dec. 19.
- Gould, Leslie A., Bridgeport, Conn. Advertising device. No. 1,414,272; Apr. 25.
- Gould & Eberhardt. (See Zimmermann, William F., assignor.)
- Gouldbourn, Joseph. (See Jerram, A. E., Gouldbourn, and Ricks.)
- Gouldbourn, Joseph, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Mechanism for feeding fastenings. No. 1,408,452; Mar. 7.
- Gouldbourn, Joseph, and F. Ricks, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Upper-shaping machine. No. 1,432,105; Oct. 17.
- Gourland Typewriter Corporation. (See Spiro, Charles, assignor.)
- Gourley, William J., et al. (See Gilbert, Frank V., assignor.)
- Gouverneur, Minor F. H., Rochester, N. Y., assignor, by mesne assignments, to Locke Insulator Corporation, Baltimore, Md. Method and means for forming passages in plastic material. No. 1,413,023; Apr. 18.
- Gove, Ransom E., Fond du Lac, Wis. Heater support. No. 1,427,375; Aug. 29.
- Government of the United States. (See Flint, James A., assignor.)
- Government of the United States. (See Hayford, J. F., and Briggs, assignors.)
- Government of the United States. (See Orr, Henry A., assignor.)
- Government of the United States represented by the Secretary of the Navy. (See Scheele, Walter T., assignor.)
- Govin, Henry W., Northboro, Mass. Hinge for doors. No. 1,433,272; Oct. 24.
- Gow, Alexander M., Duluth, Minn. Steam-shovel dipper. No. 1,402,491; Jan. 3.
- Gowdy, Edward J., Buffalo, N. Y. Printing press. No. 1,423,792; July 25.
- Gowell, Ernest E., South Portland, assignor to The E. T. Burrows Company, Portland, Me. Folding crib. No. 1,429,869; Sept. 19.
- Grabfelder, Benjamin F., Stockton, Calif. Collapsible toilet chair. No. 1,428,627; Sept. 12.
- Grabler Manufacturing Company, The. (See McCabe, Frank E., assignor.)
- Grace, E. C., et al. (See Soutullo, Raymond J., assignor.) (Reissue.)
- Grace, Edwin B., and W. J. Laffey, Memphis, Tenn. Trolley head. No. 1,411,995; Apr. 4.
- Grace, Edwin B., and W. J. Laffey, Memphis, Tenn. Conductor rail. No. 1,416,192; May 16.
- Grace, Edwin B., and W. J. Laffey, Memphis, Tenn. Freight-handling system. No. 1,417,242; May 23.
- Grace, Edwin B., assignor of one-half to G. Erskine, Memphis, Tenn. Wheel-securing device. No. 1,422,697; July 11.
- Grace, Henry S., San Francisco, Calif. Resilient vehicle wheel. No. 1,437,137; Nov. 28.
- Grace, Henry S., assignor to J. J. McDonald, San Francisco, Calif. Trammel point. No. 1,427,376; Aug. 29.
- Grace, John F., Kearney, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Condenser system. No. 1,417,515; May 30.
- Grace, Robert, Detroit, Mich. Chuck. No. 1,413,330; Apr. 18.
- Grady, Frank W., Niles, Calif. Safety device for tools. No. 1,433,814; Oct. 31.
- Grady, Robert F., St. Louis, Mo. Mold and method for forming monoliths. No. 1,417,599; May 30.
- Graef, Ernest W., Caldwell, N. J., assignor to H. J. Gaisman, Woodmere, N. Y. Combined intake and exhaust manifold. No. 1,428,841; Sept. 12.
- Graef, Ernest W., Caldwell, N. J., assignor to H. J. Gaisman, Woodmere, N. Y. Temperature-controlling apparatus. No. 1,431,224; Oct. 10.
- Graeffe, Rudolf, Brand-Erbisdorf, near Freiberg, Germany. Treating peat for manufacturing an insulating material. No. 1,429,503; Sept. 19.
- Graemiger, Benjamin, Zurich, Switzerland. Cooling device in multistage centrifugal compressors. No. 1,425,855; Aug. 15.
- Graemiger, Benjamin, assignor to Aktiengesellschaft der Maschinenfabriken Escher Wyss & Co., Zurich, Switzerland. Device for measuring or controlling the velocity of flowing fluids. No. 1,407,060; Feb. 21.
- Graetzer, Otto, Zollikon, near Zurich, and O. F. Bruman, Zurich-Enge, assignors to Festa, A. G., Zurich, Switzerland. Electric water heater. No. 1,431,580; Oct. 10.
- Graf, Alexander, Berlin-Hermisdorf, Germany. Junction box for electric supply mains. No. 1,414,874; May 2.
- Graf-Buchler, Henri. (See Coradi, O., and Graf-Buchler.)
- Graf, Frederick C., Brooklyn, and M. J. Zwosta, New York, N. Y. Automatic train control. No. 1,412,816; Apr. 11.
- Graf, Fredrik, Krokslatt, Sweden. Ring spinning and twisting machine with automatic doffing apparatus. No. 1,436,955; Nov. 28.
- Graf, Martin T., assignor of one-half to F. X. Irr, Buffalo, N. Y. Knife sharpener. No. 1,417,054; May 23.
- Graff, Maximilian, Brandenburg, Germany. Margin-setting device for typewriters. No. 1,413,721; Apr. 25.
- Graff, Walter W., Cleveland, Ohio. Electric water heater. No. 1,417,315; May 23.
- Graffam, Walter S., Shrewsbury, Mass. Folding table. No. 1,416,815; May 23.
- Graffon, Eugene H., Los Angeles, Calif. Bearing. No. 1,430,074; Sept. 26.
- Graham, Albert A., Topeka, Kans. Craft. No. 1,409,166; Mar. 14.
- Graham, Andrew W., Buffalo, N. Y. Sanitary bottle stopper. No. 1,426,728; Aug. 22.
- Graham, Andrew W., assignor to City Trust Co., branch of the Marine Trust Co. of Buffalo, trustee, Buffalo, N. Y. Packet or carton. No. 1,414,944; May 2.

Alphabetical list of patentees—Continued.

- Graham, Andrew W., assignor to The City Trust Co., branch of the Marine Trust Co., trustee, Buffalo, N. Y. Match packet for advertising purposes. No. 1,414,945; May 2.
- Graham, Andrew W., assignor to The City Trust Co., branch of the Marine Trust Co. as trustee, Buffalo, N. Y. Match packet or carton. No. 1,414,946; May 2.
- Graham, Andrew W., assignor to City Trust Co. Branch of the Marine Trust Co. of Buffalo, trustee, Buffalo, N. Y. Match packet or carton. No. 1,417,729; May 30.
- Graham, Austin W., Carrollton, Ill. Traction wheel. No. 1,410,672; Mar. 28.
- Graham Brothers. (See Dunham, George W., assignor.)
- Graham, Charles W., Allendale, N. J., assignor to American Can Company, New York, N. Y. Machine and method for cutting and applying gasket liners. No. 1,432,849; Oct. 24.
- Graham-Chisholm Company. (See Dutcher, Bernard R., assignor.)
- Graham, David M., Bordulac, N. Dak. Stacker for harvesters. No. 1,412,238; Apr. 11.
- Graham, David M., Bordulac, N. Dak., assignor to Graham-Roach Harvester and Stacker Company. Straw-stack-forming apparatus. No. 1,411,490; Apr. 4.
- Graham, Earl S., assignor to Roberts Wheel & Body Works, Dallas, Tex. Truck body. No. 1,432,329; Oct. 17.
- Graham, Edward, St. Paul, Minn., and W. A. Graham, Chicago, Ill. Cooking attachment for gas and oil stoves. No. 1,403,157; Jan. 10.
- Graham, Edward A., Brockley, London, England. Counting and indicating mechanism. No. 1,439,097; Dec. 19.
- Graham, Edward A., and A. C. Brockley, Brockley, London, England. Furniture fittings. No. 1,435,060; Nov. 7.
- Graham, Emma E., Seattle, Wash. Cork substitute and manufacture. No. 1,427,682; Aug. 29.
- Graham, George M., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. System of automobile decking. No. 1,428,842; Sept. 12.
- Graham, Harold M., assignor to Elliott Company, Pittsburgh, Pa. Surface condenser. No. 1,409,944; Mar. 21.
- Graham, Harry M., Plato, Saskatchewan, Canada. Elevator canvas for binders, grain conveyers and the like. No. 1,435,600; Nov. 14.
- Graham, Henry F., and H. Haynes, Farmington, Mo. Automobile headlight. No. 1,432,458; Oct. 17.
- Graham, Henry W. B., assignor to The Arnold-Creager Company, New London, Ohio. Pallet-feeding mechanism. No. 1,434,608; Nov. 7.
- Graham, Howard C., St. Joseph, Mo. Automatic train stop. No. 1,421,078; June 27.
- Graham, James H., assignor to The Torrington Company, Torrington, Conn. Pedal. No. 1,432,061; Oct. 17.
- Graham, James & Co. (See Shutter, Abraham L., assignor.)
- Graham, John, Stratford, Conn. Polyphone sound box and mounting therefor. No. 1,438,642; Dec. 12.
- Graham, John E., London, England. Combined pressure gauge and valve. No. 1,428,776; Sept. 12.
- Graham, Joseph B., Evansville, Ind., assignor to The Owens Bottle Company, Toledo, Ohio. Machine for making hollow glassware. No. 1,405,204; Jan. 31.
- Graham, Leslie B., East Chicago, Ind., assignor to National Boiler Washing Co. of Illinois, Chicago, Ill. Railway-track drop pit. No. 1,432,997; Oct. 24.
- Graham, Malcolm J., Beaumont, Tex. Monolithic wall. No. 1,405,579; Feb. 7.
- Graham, Nelson W., Johannesburg, Transvaal, South Africa. Wrench. No. 1,422,563; July 11.
- Graham Paper Company. (See Kniep, William H., assignor.)
- Graham-Roach Harvester and Stacker Company. (See Graham, David M., assignor.)
- Graham, Robert S., assignor of one-half to W. M. Follmer, New York, N. Y. Removable cap for typewriter keys. No. 1,428,544; Sept. 12.
- Graham Valve Company. (See Wasem, Louis, assignor.)
- Graham, Walton C., Denver, Colo. Extracting soluble matters from shredded or finely-divided materials. No. 1,437,801; Dec. 5.
- Graham, William A. (See Graham, Edward and W. A.)
- Graham, William J., et al. (See Knoblock, William, assignor.)
- Graham, William S., Canton, Ill., assignor to International Harvester Company. Rear furrow-wheel lift. No. 1,435,291; Nov. 14.
- Graham, Willie, New Orleans, La. Reinforced concrete tie. No. 1,406,454; Feb. 14.
- Grainger, William H., Toronto, Ontario, Canada. Tie holder. No. 1,422,849; July 18.
- Gram, Martin F. (See Gram, William A. and M. F.)
- Gram, William A. and M. F. Welland, Ontario, Canada. Expandable core for vulcanizing tires. No. 1,406,640; Feb. 14.
- Grambow, Herman T., Atchison, Kans. Store-service cabinet. No. 1,418,787; June 6.
- Gramelsbach, Frank J., Pawtucket, R. I., assignor to Everlastik, Incorporated, Boston, Mass. Tape or ribbon reel. No. 1,409,945; Mar. 21.
- Gramlich, Samuel V., Paradox, Colo. Illuminating system for vehicles. No. 1,426,060; Aug. 15.
- Gramlich, Samuel V., Paradox, Colo. Shock-absorber attachment. No. 1,439,098; Dec. 19.
- Gran, Albert, assignor of one-half to E. T. Adell, Chicago, Ill. Comb cleaner. No. 1,412,860; Apr. 18.
- Granberg, Albert J., assignor to The Granberg Meter Company, San Francisco, Calif. Liquid meter. (Reissue.) No. 15,476; Oct. 24.
- Granberg Meter Company, The. (See Granberg, Albert J., assignor.) (Reissue.)
- Granberg, Wilhelm, Chicago, Ill. Guard for sawing machines. No. 1,430,983; Oct. 3.
- Grand, George, and C. S. Trattner, New York, N. Y. Jewelry. No. 1,403,600; Jan. 17.
- Grand Rapids Manufacturing Company. (See Yarrington, Benson A., assignor.)
- Grand Rapids Refrigerator Company. (See Leonard, Charles H., assignor.)
- Grand Rapids Tire and Rubber Corporation. (See Swan, Herbert H., assignor.)
- Grande, Victor, et al. (See Austin, Albert L., assignor.)
- Granger, Leo A. (See Trullinger, D. N., and Granger.)
- Granger, Samuel M., Kasota, Minn. Trapdoor opener and closer. No. 1,435,638; Nov. 14.
- Granlow, Eric J. L., Schenectady, N. Y. Die structure. No. 1,428,777; Sept. 12.
- Granlund, Gustaf A., assignor to The Greaves-Klusman Tool Company, Cincinnati, Ohio. Ratchet-feed mechanism. No. 1,425,007; Aug. 8.
- Grannis, Thomas S., Homewood, Ill. Freight-loading means. No. 1,412,861; Apr. 18.
- Granstrom, John A., Boston, Mass. Indicator for garages, etc. No. 1,410,292; Mar. 21.
- Grant, Alexander D., San Jose, Calif. Sanitary flush bowl. No. 1,419,498; June 13.
- Grant, Alexander H., Chicago, Ill. Chain tool. No. 1,429,731; Sept. 19.
- Grant, Arthur G., and J. J. Fanning; said Fanning assignor to J. V. Grant, Yardley, Wash. Railway-switch lock. No. 1,422,963; July 18.
- Grant, Frederick C. and F. Z., Chicago, Ill. Pedal attachment for automobiles. No. 1,428,843; Sept. 12.
- Grant, Frieda Z. (See Grant, Frederick C. and F. Z.)
- Grant, Harlo R., Chicago, Ill. Method for filing printing plates. No. 1,415,629; May 9.
- Grant, Herbert G., assignor to S. O. Bigney & Company, Attleboro, Mass. Treating metal surfaces. No. 1,431,300; Oct. 10.
- Grant, Hugo B., Chicago, Ill. Internal-combustion engine. No. 1,409,093; Mar. 7.
- Grant, Hugo B., Chicago, Ill. Piston. No. 1,427,205; Aug. 29.
- Grant, Hugo B., Chicago, Ill. Bumper. No. 1,433,201; Oct. 24.
- Grant, James C., Stamford, Conn. Labeling device for loose-leaf binders. No. 1,403,076; Jan. 10.
- Grant, James W., Bridgeport, Conn., assignor to F. J. Kline, Long Island City, N. Y. Paper clasp. No. 1,420,654; June 27.
- Grant, John A., Atlanta, Ga. Attachment for Ford automobiles. No. 1,411,623; Apr. 4.
- Grant, John J., New York, N. Y. Machine for manufacturing castle nuts. No. 1,404,022; Jan. 17.
- Grant, John V. (See Grant, A. G., and Fanning, assignors.)
- Grant, Patrick M., Chicago, Ill. Fluid pump. No. 1,414,463; May 2.
- Grant, Ralph H., assignor, by mesne assignments, Delco-Light Company, Dayton, Ohio. Storage battery. No. 1,414,510; May 2.
- Grant, Robert, and J. S. R. Rigby, Vancouver, British Columbia, Canada. Transmission mechanism. No. 1,418,254; May 30.
- Grant, William F., Cleveland Heights, assignor to The Willman-Seaver Morgan Company, Cleveland, Ohio. Hydraulic pump. No. 1,402,761; Jan. 10.
- Grantham, Elza H., Northway, Colo. Convertible lister and cultivator. No. 1,409,846; Mar. 14.
- Grantier, Giles C., Hornell, N. Y. Drip pan for gauge cocks. No. 1,404,602; Jan. 24.
- Grantland, John W., Cincinnati, Ohio. Water-level gauge. No. 1,428,162; Sept. 5.
- Granz, Joseph, Duluth, Minn. Rheostat. No. 1,433,948; Oct. 31.
- Graphic Score Book Company, The. (See Smythe, William W. Jr., assignor.)
- Graphoscope Development Company. (See White, Joseph R., assignor.)
- Grapp, Albert E., Minneapolis, Minn. Electric oven. No. 1,406,372; Feb. 14.
- Grasberger, Lawrence B. (See Fay, J. T., and Grasberger.)
- Grasberger, Lawrence B., Richmond, Va. Tobacco press. No. 1,417,899; May 30.
- Grass, Alfred, assignor to American Can Company, New York, N. Y. Master sheets for use in making lithographic printing surfaces and making same. No. 1,416,706; May 23.
- Grass, Zack, Heiner, Ky. End-gate raiser for mine cars. No. 1,407,329; Feb. 21.
- Grass, Zack, Heiner, Ky. Splice and sectional insulator. No. 1,420,541; June 20.
- Grasselli Chemical Company. (See Howard, Henry, assignor.)
- Grasselli Chemical Company. (See Jordan, Heinrich, assignor.)

Alphabetical list of patentees—Continued.

- Grasselli Chemical Company, The. (See Lihme, Iens P., assignor.)
- Grasselli Chemical Company, The. (See Toepfer, Hans, assignor.)
- Grasselli Chemical Company, The. (See Vernet, C., and Rauch, assignors.)
- Grasso, Joseph, Philadelphia, Pa. Building construction. No. 1,408,287; Feb. 28.
- Grasso, Leonard, Washington, D. C. Catapult for game boards. No. 1,403,402; Jan. 10.
- Graton & Knight Manufacturing Company. (See Hawkesworth, James A., assignor.)
- Grasswick, Carl A., Houston, Tex. Motor-vehicle attachment. No. 1,433,202; Oct. 24.
- Grattan, George E. (See Matheson, H. W., and Grattan.)
- Grau, Martin, Crockett, Tex. Sawbuck. No. 1,432,998; Oct. 24.
- Grauer, Joseph, Brooklyn, N. Y. Thread-cutting machine. No. 1,404,386; Jan. 24.
- Grauheding, Oskar. (See Völler, K., and Grauheding.)
- Grauheding, Oskar, Dusseldorf, assignor to Rheinische Metallwaaren-und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Sighting apparatus for ordnance adapted to fire at elevated targets. No. 1,411,721; Apr. 4.
- Gravel, Alundius, assignor to The Willys-Overland Company, Toledo, Ohio. Rear-deck construction. No. 1,416,816; May 23.
- Gravell, James H., Elkins Park, Pa. Cleaner for and method of cleaning metals. No. 1,428,084; Sept. 5.
- Gravell, James H., Elkins Park, Pa. Composition for and method of preventing metal from rusting. No. 1,428,085; Sept. 5.
- Gravell, James H., Elkins Park, Pa. Paint for and method of preventing heated surfaces from rusting. No. 1,428,086; Sept. 5.
- Gravell, James H., Elkins Park, Pa. Rust-resisting steel and producing same. No. 1,428,087; Sept. 5.
- Gravell, James H., Elkins Park, Pa. Soldering solution. No. 1,428,088; Sept. 5.
- Gravell, James H., Elkins Park, Pa. Welding tablet or capsule. No. 1,434,538; Nov. 7.
- Gravenhorst, Otto, and L. Höllrigl, Buenos Aires, Argentina. Refillable multiple fuse. No. 1,405,778; Feb. 7.
- Gravert, Peter, Omaha, Nebr. Rolling-drum plow. No. 1,407,407; Feb. 21.
- Graves, Charles W., McCook, Nebr. Rerailer. No. 1,410,059; Mar. 21.
- Graves, Clarence D., Dublin, Ga. Coffee pot or urn. No. 1,417,243; May 23.
- Graves, Glenn F., Centralia, Kans. Oil pan. No. 1,427,377; Aug. 29.
- Graves, Henry W., Chicago, Ill. Structural toy. No. 1,433,273; Oct. 24.
- Graves, John, assignor to French Battery & Carbon Co., Madison, Wis. Incandescent-lamp tester. No. 1,411,430; Apr. 4.
- Graves, John, assignor to French Battery & Carbon Company, Madison, Wis. Carbon-centering, battery-tamping machine. No. 1,436,311; Nov. 21.
- Graves, Robert E., Houston, Tex. Dental handpiece. No. 1,427,286; Aug. 29.
- Graves, Walter E., Floriston, Calif. Press for forming stereotype plates. No. 1,439,546; Dec. 19.
- Gray, Albert J., and W. Hebern, Oakland, Calif., assignors to Security Auto Lock Co. Automobile lock. No. 1,413,022; Apr. 18.
- Gray, Alexander. (See Moore, F., and Gray.)
- Gray, Arthur D. (See Plummer, Frederick A., assignor.)
- Gray, Benjamin B., Willacochee, Ga. Preparation for destroying boll weevils. No. 1,403,403; Jan. 10.
- Gray, Bertram P., Sutton Coldfield, England. Antislip device for horseshoes. No. 1,419,251; June 13.
- Gray, David E., assignor to Corning Glass Works, Corning, N. Y. Method of and apparatus for finishing blown-glass articles. No. 1,409,847; Mar. 14.
- Gray, David E., assignor to The Corning Glass Works, Corning, N. Y. Air-pressure regulator. No. 1,437,138; Nov. 28.
- Gray, David E., and F. E. Bardrof, assignors to Corning Glass Works, Corning, N. Y. Method and apparatus for marvering glass. No. 1,410,803; Mar. 28.
- Gray, Ellsworth, Humble, Tex. Spear. No. 1,414,511; May 2.
- Gray, Forest L., Kenmore, Ohio. Hair cutter. No. 1,404,603; Jan. 24.
- Gray, George B. M., Oakland, Calif. Gear-shift lock. No. 1,422,353; July 11.
- Gray, George E., Compton, Calif. Making liquid fuel. No. 1,438,823; Dec. 12.
- Gray, George F., Pittsburgh, Pa. Lightning arrester. No. 1,407,061; Feb. 21.
- Gray, George F., Mahwah, N. J. Mast coupling. No. 1,419,252; June 13.
- Gray, George O., Butte, Mont. Compensating device. No. 1,404,846; Jan. 31.
- Gray, George O., Butte, Mont. Decimal-point device for chart readers. No. 1,420,695; June 27.
- Gray, Halla F., Denver, Colo. Carpet-cleaning process and apparatus. No. 1,410,913; Mar. 28.
- Gray, Harriette, Baltimore, Md. Child's waist. No. 1,410,401; Mar. 21.
- Gray, Ishmael H., Indianapolis, Ind. Tag holder. No. 1,410,402; Mar. 21.
- Gray, James A., San Francisco, Calif. Fruit-cutting apparatus. No. 1,417,666; May 30.
- Gray, James A., assignor to American Can Company, San Francisco, Calif. Machine for positioning and clinching ends upon can bodies. No. 1,436,761; Nov. 28.
- Gray, James A., assignor to American Can Company, San Francisco, Calif. Timed feed mechanism. No. 1,440,288; Dec. 26.
- Gray, James E., Newton, Iowa. Controlling device for automobile headlights. No. 1,437,732; Dec. 5.
- Gray, James H., New York, N. Y. Regenerator chamber. No. 1,408,086; Feb. 28.
- Gray, James H., New York, N. Y. Electrode furnace. No. 1,436,497; Nov. 21.
- Gray, James H., New York, N. Y. Refractory material and furnace wall built thereof. No. 1,439,410; Dec. 19.
- Gray, John, Elyria, Ohio. Tire-chain fastener. No. 1,419,043; June 6.
- Gray, Joseph P., Los Angeles, Calif. Wind deflector. No. 1,415,836; May 9.
- Gray, Joseph P., Los Angeles, Calif. Automobile wind deflector. No. 1,428,844; Sept. 12.
- Gray, Joseph P., Newport, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Slow-burning black-powder composition. No. 1,438,759; Dec. 12.
- Gray, Neil, Dayton, Ohio. Magnetic revolution counter. No. 1,419,253; June 13.
- Gray, Orrin D. (See Cory, H., and Gray.)
- Gray, Percy W. (See Taylor, Alfred and H. D., and Gray.)
- Gray, Percy W., assignor of one-half to A. Taylor, York, England. Optical sighting device for aircraft and the like. No. 1,402,064; Jan. 3.
- Gray, Peter, & Sons Inc. (See Kelsea, Clarence H., assignor.)
- Gray, Robert, Glasgow, Scotland. Golf-practice apparatus. No. 1,437,591; Dec. 5.
- Gray, Robert, Glasgow, Scotland, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Printer's strip-material mold. No. 1,414,464; May 2.
- Gray, Robert D., Ridgewood, N. J. Combined phonograph and moving-picture machine. No. 1,428,845; Sept. 12.
- Gray, Robert H., Statesville, N. C. Water-power device. No. 1,436,342; Nov. 21.
- Gray, Sim A., Chattanooga, Tenn. Auxiliary automobile seat. No. 1,407,408; Feb. 21.
- Gray, William, Rochester, N. Y. Stove or furnace pipe. No. 1,437,937; Dec. 5.
- Gray, William E., Chicago, Ill. Lemon squeezer. No. 1,422,196; July 11.
- Gray, William E., assignor to Moore Electric Corporation, Chicago, Ill. Speed-varying mechanism. No. 1,434,814; Nov. 7.
- Gray, William H., and J. W. Howlett, Lymington, England. Making piston rings and die for same. No. 1,415,439; May 9.
- Graydon, Alexander, San Mateo, Calif. Washing, rinsing, and wringing machine. No. 1,437,514; Dec. 5.
- Graydon, Andrew, assignor of one-fifth to J. R. Renaker, Los Angeles, Calif. Garment supporter. No. 1,411,014; Mar. 28.
- Grayson, George W. (See Russell, I. N., and Grayson.)
- Grayson, J. H., Manufacturing Company, The. (See Grayson, John H., assignor.)
- Grayson, John, Rochdale, England. Manufacture of sulphur dioxide. No. 1,402,062; Jan. 3.
- Grayson, John H., assignor to The J. H. Grayson Manufacturing Company, Athens, Ohio. Burner for gas fires. No. 1,424,760; Aug. 8.
- Grayson, John L., Morgantown, W. Va. Meter-testing device. No. 1,424,899; Aug. 8.
- Grazier, Doré W., Johnstown, Pa. Controller or flasher for electric signs. No. 1,402,927; Jan. 10.
- Grearson, Frederick A. (See Watt, D. C., and Grearson.)
- Great Lakes Dredge & Dock Company. (See Cushing, John F., assignor.)
- Great Northern Paper Company. (See Allen, C. H., and Trimbe, assignors.) (Reissue.)
- Great Northern Paper Company. (See Allen, Carlton H., assignor.)
- Great Northern Paper Company. (See Pope, Charles E., assignor.)
- Great Western Manufacturing Co. (See Du Broy, John O., assignor.)
- Great Western Meter Company. (See Lyman, Ray J., assignor.)
- Greaves, Abilio M. de S., Cambridge, Mass. Thermoelectric alarm. No. 1,406,553; Feb. 14.
- Greaves-Klusman Tool Company, The. (See Granlund, Gustaf A., assignor.)
- Greaves, Percy A. (See Beebe, John A., assignor.)
- Greaves, Percy J. (See Kramer, J., and Greaves.)
- Grebe, John J., Cleveland, Ohio. Mixing valve. No. 1,419,254; June 13.
- Grebler, William, and L. Oskow, Brooklyn, N. Y. Automatic awning-control device. No. 1,408,424; Feb. 28.
- Grebner, Louis, Thompson Township, Jo Daviess County, Ill. Equalizing neck yoke. No. 1,436,874; Nov. 28.
- Greco, Gaetano. (See Bever, A., Greco, and Rizzolo.)
- Gredell, Otto N., Winnwood, assignor to Sheet Metal Products Company, Kansas City, Mo. Acetylene generator. No. 1,411,084; Mar. 28.
- Greeley, James T., Nashua, N. H. Clinical thermometer holder. No. 1,406,373; Feb. 14.

Alphabetical list of patentees—Continued.

- Greelish, Rose A., South Braintree, Mass. Window washer and cleaner. No. 1,416,817; May 23.
- Green, Arch B., assignor of one-half to U. G. Walker, San Francisco, Calif. Combination carbonator and dispensing barrel. No. 1,418,072; May 30.
- Green, Augustus A. (See Shaw, Frederick A., assignor.)
- Green, Bruce G., Anaconda, Mont. Auxiliary seat for baby carriages. No. 1,408,729; Mar. 7.
- Green, Carl M., Vancouver, British Columbia, Canada. Cattle guard. No. 1,409,167; Mar. 14.
- Green, Charles A., and H. F. Schuh, assignors to The C. F. Pease Company, Chicago, Ill. Drawing instrument. No. 1,411,491; Apr. 4.
- Green, Charles A., and H. F. Schuh, assignors to The C. F. Pease Company, Chicago, Ill. Drawing instrument. No. 1,417,375; May 23.
- Green, Charles A., and H. F. Schuh, assignors to The C. F. Pease Company, Chicago, Ill. Ruling pen. No. 1,421,455; July 4.
- Green, Charles F., Sacramento, Calif. Portable crane. No. 1,407,855; Feb. 28.
- Green, Charles F., Defiance, assignor to Industrial Research Corporation, Toledo, Ohio. Seat spring. No. 1,415,837; May 9.
- Green, Charles F., assignor to The Willys-Overland Co., Toledo, Ohio. Closed-car storm shield. No. 1,430,897; Oct. 3.
- Green, Charles F., Defiance, and H. W. Lindsey, Jr., assignors to Industrial Research Corporation, Toledo, Ohio. Fuel-reserve-supply system. No. 1,419,373; June 13.
- Green, Daries O., Toledo, Ohio. Kitchenette cabinet. No. 1,421,456; July 4.
- Green, Edward D., Chicago, Ill. Compound turbine blower. No. 1,418,704; June 6.
- Green, Elmer B., assignor, by mesne assignments, of one-half to P. E. Michael, Frederick, Md. Running board and fender support for automobiles. No. 1,406,728; Feb. 14.
- Green Engineering Company. (See Poppenhusen, Herman A., assignor.)
- Green Engineering Company. (See Strong, Arthur P., assignor.)
- Green, Henry M., Los Angeles, Calif. Pump. No. 1,422,759; July 11.
- Green, Henry M., Los Angeles, Calif. Packing construction for pumps. No. 1,437,938; Dec. 5.
- Green, Henry M., Los Angeles, Calif. Pumping apparatus. No. 1,437,939; Dec. 5.
- Green, Howard W., Versailles, Conn., assignor to Willimantic Knitting Company. Machine for making sanitary napkins. No. 1,408,586; Mar. 7.
- Green, J. Birchard, assignor to Chicago Steel and Wire Company, Chicago, Ill. Reel. No. 1,420,094; June 20.
- Green, James F., Jarbalo, assignor of one-half to B. F. Samuels, Leavenworth, Kans. Drying grain bin. No. 1,417,316; May 23.
- Green, James M., Chicago, Ill. Nonskid chain for automobile tires. No. 1,417,055; May 23.
- Green, John A., et al. (See Mosier, James P., assignor.)
- Green, John E., Johnstown, Pa. Sand-blast apparatus. No. 1,427,206; Aug. 29.
- Green, John R. (See Green, J. R., Williams, and Laval-lée, assignors.)
- Green, John R., Somerville, F. S. Williams, Winthrop, and J. A. Laval-lée, Dorchester, assignors to J. R. Green, Charlestown, Mass. Shoe rack. No. 1,432,391; Oct. 17.
- Green, Joseph A., assignor to Federal Products Corporation, Providence, R. I. Gauge. No. 1,433,076; Oct. 24.
- Green, Joshua, Hove, England. Cabinet for containing talking-machine records. No. 1,429,339; Sept. 19.
- Green, Joshua, Hove, England. Collapsible gramophone. No. 1,429,340; Sept. 19.
- Green, Leslie P., Chicago, Ill. Scraper. No. 1,430,075; Sept. 26.
- Green, Leslie P., Chicago, Ill. Excavator. No. 1,430,076; Sept. 26.
- Green, Oliver, Michigan City, Ind. Signaling device for railways. No. 1,423,318; July 18.
- Green, Pansy F. (See Hodgdon, H. W., and Green.)
- Green, Paul G., Marshall, Mich. Pipe wrench. No. 1,423,793; July 25.
- Green, Richard D., assignor to John A. Roebling's Sons Company, Trenton, N. J. Wire rope. No. 1,405,835; Feb. 7.
- Green, Richard D., assignor to John A. Roebling's Sons Company, Trenton, N. J. Wire rope. No. 1,405,836; Feb. 7.
- Green, Richard D., assignor to John A. Roebling's Sons Company, Trenton, N. J. Wire rope. No. 1,405,837; Feb. 7.
- Green, Richard D., assignor to John A. Roebling's Sons Company, Trenton, N. J. Wire rope. No. 1,405,838; Feb. 7.
- Green, Samuel G., U. S. Army. Gun sight. No. 1,405,580; Feb. 7.
- Green, Samuel M., Springfield, Mass. Electrolytic cell. No. 1,404,387; Jan. 24.
- Green, Walter H., Dardanelle, Ark. Automobile wheel attachment. No. 1,417,821; May 30.
- Green, Walter H., assignor to International Filter Co., Chicago, Ill. Settling tank. No. 1,417,516; May 30.
- Green, Walter R., Chicago, Ill. Universal tire carrier. No. 1,403,158; Jan. 10.
- Green, Walter R., Chicago, Ill. Attachment for tire carriers. No. 1,428,027; Sept. 5.
- Green, Warren L., assignor to American Bank Note Company, New York, N. Y. Printing machine. No. 1,436,653; Nov. 28.
- Green, Willard W., Airlie, Oreg. Drier. No. 1,413,908; Apr. 25.
- Green, William. (See Lewis, W. K., and Green.)
- Green, William D., Arrowhead Springs, Calif. Fruit jar. No. 1,436,587; Nov. 21.
- Greenawalt, Harriet A., Milledgeville, Ill. Electrical bath cabinet. No. 1,436,090; Nov. 21.
- Greenbaum, Harry L., New York, N. Y. Device for use in coloring bulbs. No. 1,422,964; July 18.
- Greenberg, David S., Warren Point, N. J. Automobile wheel. No. 1,422,050; July 4.
- Greenberg, Louis, Chicago, Ill. Mechanism for operating searchlights. No. 1,428,689; Sept. 12.
- Greenberg, Samuel L., New York, N. Y. Artificial tooth. No. 1,417,376; May 23.
- Greene Aeronautical Company, The. (See Greene, Otto W., assignor.)
- Greene, Charles A., Los Angeles, Calif. Clamp. No. 1,411,569; Apr. 4.
- Greene, Charles E., Bangor, Me. Beater engine. No. 1,424,399; Aug. 1.
- Greene, Chester W. (See Stearns, F. S., and Greene.)
- Greene, Frank C. (See Laucks, Irving F., assignor.)
- Greene, Frank R., Chicago, Ill. Vending receptacle. No. 1,418,560; June 6.
- Greene, Frank S., Cleveland, Ohio. Arithmetical puzzle blocks. No. 1,432,062; Oct. 17.
- Greene, Frederick J., Racine, Wis. Hat-pad-securing means. No. 1,428,026; Sept. 5.
- Greene, Herbert M., Portland, Oreg. Cooking grain and a product for effecting the same. No. 1,424,132; July 25.
- Greene, Holdridge G., assignor to Triumph Trap Co., Inc., Oneida, N. Y. Forming jaws for game traps. No. 1,413,722; Apr. 25.
- Greene, John, New York, N. Y., assignor to Gilpin, Langdon & Company, Incorporated, Baltimore, Md. Container. No. 1,438,487; Dec. 12.
- Greene, John A., Long Beach, Calif. Heater and ventilator. No. 1,416,346; May 16.
- Greene, John A. C., Folkestone, England. Package receptacle for doors and partitions. No. 1,424,815; Aug. 8.
- Greene, John S., Rochester, N. Y., assignor to Photostat Corporation, Providence, R. I. Photographic camera. No. 1,412,783; Apr. 11.
- Greene, John S., Rochester, N. Y., assignor to Photostat Corporation, Providence, R. I. Print-storage equipment for cameras. No. 1,416,193; May 16.
- Greene, John S., Rochester, N. Y., assignor to Photostat Corporation, Providence, R. I. Photographic-developing apparatus. No. 1,421,079; June 27.
- Greene, Lemuel A., Greenville, S. C. Agricultural implement. No. 1,403,547; Jan. 17.
- Greene, Morgan A., Rupert, Idaho. Beet harvester. No. 1,411,015; Mar. 28.
- Greene, Otto W., assignor to The Greene Aeronautical Company, Elyria, Ohio. Airplane. No. 1,422,197; July 11.
- Greene, Richard A., Brooklyn, N. Y., assignor to Jabez Burns & Sons. Method and apparatus for blanching whole peanuts. No. 1,434,815; Nov. 7.
- Greene, Richard A., Brooklyn, N. Y., assignor to Jabez Burns & Sons. Nut blancher. No. 1,434,816; Nov. 7.
- Greene, Stanley R., assignor of one-half to D. T. Croxton, Cleveland, Ohio. Tuvrey stock. No. 1,405,683; Feb. 7.
- Greene, Vergil O., Chillicothe, Mo. Registering device. No. 1,440,353; Dec. 26.
- Greenbaum, Samuel, Kansas City, Mo. Baby-carriage screen. No. 1,412,935; Apr. 18.
- Greener, Charles T., Faulkton, S. Dak. Multiple nail set. No. 1,440,072; Dec. 26.
- Greenewald, Eugene L., Washington, D. C. Closure. No. 1,405,112; Jan. 31.
- Greenewald, Eugene L., Washington, D. C. Closure. No. 1,427,688; Aug. 29.
- Greenfield, Barnett. (See Rybicki, V. T., and Greenfield.)
- Greenfield, Benjamin, Bartlesville, Okla., assignor, by mesne assignments, to Doherty Research Company. Oil-fired steam boiler. No. 1,423,764; July 25.
- Greenfield, David H., Denver, Colo. Ignition-point grinder. No. 1,422,097; July 11.
- Greenfield, Frank A., Perry, Okla. Antiskid device. No. 1,407,529; Feb. 21.
- Greenfield, John E., El Centro, Calif. Desilting device. No. 1,434,337; Oct. 31.
- Greenfield, Rubin, New York, N. Y. Jewelry setting. No. 1,434,886; Nov. 7.
- Greenfield Tap and Die Corporation. (See Morgan, Ralph L., assignor.)
- Greening, Leo F., St. Paul, Minn. Artificial limb and forming same. No. 1,436,875; Nov. 28.
- Greenison, Burt, New York, N. Y. Lock. No. 1,409,094; Mar. 7.
- Greenison, Nelson J., New York, N. Y. Combination furniture. No. 1,427,588; Aug. 29.
- Greenison, Nelson J., New York, N. Y. Bicycle propelling means. No. 1,427,589; Aug. 29.

Alphabetical list of patentees—Continued.

- Greenlaw, Thomas B., Flora, Ill. Fountain-pen holder. No. 1,413,476; Apr. 18.
- Greenleaf, George E., and C. F. Randolph, Plainfield, N. J., assignors to Niles-Bement-Pond Company, New York, N. Y. Lathe headstock. No. 1,422,098; July 11.
- Greenleaf, Robert P. (See Billings, F., and Greenleaf.)
- Greenleaf, Robert P., assignor to F. Billings, Cleveland, Ohio. Loading machine. No. 1,435,920; Nov. 21.
- Greenlee, Arden D., Webster Groves, Mo. Manufactured egg. No. 1,438,232; Dec. 12.
- Greenlee, Harry A., Pawhuska, Okla. Reamer. No. 1,418,255; May 30.
- Greenough, Henry B., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Applying apparatus. No. 1,407,026; Feb. 21.
- Greensaft, Isidor, New York, N. Y. Mount for manipulatable fans and personal utilities equipment. No. 1,434,609; Nov. 7.
- Greenslade, Willie, Ottawa, Ontario, Canada. Auto wheel attachment. No. 1,414,735; May 2.
- Greenspan, Marius, Chicago, Ill. Tire mold. No. 1,404,847; Jan. 31.
- Greenstreet, Charles J., Chicago, Ill. Fuel product and making same. No. 1,431,225; Oct. 10.
- Greenstreet, Charles J., St. Louis, Mo. Artificial fuel and making same. No. 1,432,178; Oct. 17.
- Greenstreet, Jason H., Indianapolis, Ind. Tool for closing wire-bound boxes. No. 1,422,965; July 18.
- Greenstreet, Jason H., Indianapolis, Ind. Package blank and package. No. 1,422,966; July 18.
- Greenstreet, Milfred L. (See Day, Wallace, and J. W., assignors.)
- Greenstreet, Milfred L. (See Evans, C. P., Greenstreet, and Day.)
- Greenstreet, Milfred L., Maplewood, Mo., and F. G. Roedel, Dubuque, Iowa, assignors of one-third to A. G. Kennel, St. Louis, Mo. Game or toy. No. 1,402,596; Jan. 3.
- Greenstreet, Oliver P., Quapaw, Okla. Metallic shingle. No. 1,432,999; Oct. 24.
- Greenstreet, Oliver P., Quapaw, Okla., assignor of one-half to F. B. Clark, Webb City, Mo. Washing apparatus. No. 1,409,292; Mar. 14.
- Greenwald, Lemon, assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Vulcanizing apparatus. No. 1,409,095; Mar. 7.
- Greenwood, Frank E., New Rochelle, N. Y. Apparatus for determining moisture. No. 1,415,546; May 9.
- Greenwood, Levi H., et al., trustees. (See Lloyd, Marshall B., assignor.)
- Greenwood, Richard F., Brooklyn, N. Y., assignor to Apex Specialties Corporation. Cigar and cigarette holder. No. 1,425,498; Aug. 8.
- Greer, Arch P., Greenville, S. C. Loom pulley hub. No. 1,436,032; Nov. 21.
- Greer, Benjamin B., Chicago, Ill. Means for preventing creepage of railway rails. No. 1,432,179; Oct. 17.
- Greer, Henry G. (See Schaefer, W. K., Greer, and McCullough.)
- Greer, J. E., et al. (See Macmanus, Augustus F. W., assignor.)
- Greer, John H., San Francisco, Calif. Savings bank. No. 1,417,164; May 23.
- Greer, Luther C., and B. C. Golling, St. Paul, Minn. Camera. No. 1,402,228; Jan. 3.
- Greer, Robert, New York, N. Y. Type casting and setting machine. No. 1,434,114; Oct. 31.
- Greetham, Ernest. (See Freedman, P., and Greetham.)
- Grefenius, Hugo, Frankfurt-on-the-Main, Germany. Ship for transporting raw products. No. 1,422,354; July 11.
- Gregerson, Gergers P. (See Gregerson, Louis J., G. P., and H. M.)
- Gregerson, Henry M. (See Gregerson, Louis J., G. P., and H. M.)
- Gregerson, Louis J., G. P., and H. M., Omaha, Nebr. Book for income-tax returns. No. 1,427,951; Sept. 5.
- Gregg, Edward T. (See Seibert, F. M., and Gregg.)
- Gregg, Ida, et al. (See Boudreaux, Theodore, assignor.)
- Gregg, Louis D., Hackensack, N. J. Rail fastening. No. 1,421,457; July 4.
- Gregg, Lucien L., Olympia, Wash. Lumber-jack's platform. No. 1,407,651; Feb. 21.
- Gregg, William H. (See Bachmann, Frederick, assignor.)
- Gregory, Carl W., Petaluma, Calif. Track layer for trucks. No. 1,404,520; Jan. 24.
- Gregory, Curry W., Frederick, Md. Oil or grease dispensing device. No. 1,407,997; Feb. 28.
- Gregory, Frank E., Sacramento, assignor of one-fourth to G. A. McKinley, Vacaville, Calif. Automobile lamp. No. 1,426,181; Aug. 15.
- Gregory, George, Denver, Colo. Bottle. No. 1,416,347; May 16.
- Gregory, George W., London, England. Apparatus for chopping foodstuffs. No. 1,421,458; July 4.
- Gregory, George W., London, England. Apparatus for peeling potatoes and the like. No. 1,430,898; Oct. 3.
- Gregory, Henry W., and G. F. Betts, assignors to The Lounsbery & Bissell Company, Norwalk, Conn. Wad for shot shells. No. 1,435,226; Nov. 14.
- Gregory, Herbert, Concord, Calif., assignor to National Lead Company of California. Production of white lead. No. 1,435,707; Nov. 14.
- Gregory, Thomas, Cleveland, Ohio. Hairpin. No. 1,423,606; July 25.
- Gregory, William P., Stone Canon, Calif. Signal system. No. 1,408,190; Feb. 28.
- Gregory & Read Company. (See Gulliford, Nicholas L., assignor.)
- Greif Brothers Cooperage Company, The. (See Raible, John R., assignor.)
- Greimann Ditcher Company. (See Greimann, George H., assignor.)
- Greimann, George H., assignor to Greimann Ditcher Company, Garnet, Iowa. Cleaning device for excavators. No. 1,406,849; Feb. 14.
- Grein, Leonard W., Cheney, Wash. Antislip device. No. 1,408,730; Mar. 7.
- Grein, Leonard W., Cheney, Wash. Grease-cup tool. No. 1,415,440; May 9.
- Greiner, Walter J. (See Steffan, W. C., Ackermann, and Greiner.)
- Greiner, Charles, et al. (See Abrams, Arthur J., assignor.)
- Greitzer, Meyer, New York, N. Y. Lamp shade. No. 1,423,319; July 18.
- Grelck, William P. M., St. Paul, Minn. Prepared flour. No. 1,428,628; Sept. 12.
- Grenache, Joseph E. (See Smith, W. O., and Grenache.)
- Grenier, Henry J., Fairfield, Conn. Cue-tip fastener. No. 1,430,500; Sept. 26.
- Grenzebach, Erwin C., St. Louis, Mo. Tree stand. No. 1,411,722; Apr. 4.
- Greschner, Paul. (See Demko, J., and Greschner.)
- Gresen, Adolph C. (See Andersen, Einer L., assignor.)
- Gresley, Herbert N., Doncaster, assignor to The Leeds Forge Company Limited, Leeds, England. Railway and tramway vehicle. No. 1,412,053; Apr. 11.
- Gressle, Albert C., Hamilton, Ohio. Compound for forming runners. No. 1,408,587; Mar. 7.
- Greve, Edgar E., Bellevue, Pa. Rope clamp. No. 1,420,034; June 20.
- Greve, Edgar E., Bellevue, Pa. Pipe slip. No. 1,436,246; Nov. 21.
- Greve, Edgar E., Bellevue, Pa. Rotary drilling apparatus. No. 1,437,755; Dec. 5.
- Greve, Edgar E., Bellevue, assignor to Oil Well Supply Company, Pittsburgh, Pa. Pitman connection for oil-well apparatus. No. 1,420,033; June 20.
- Greve, Herman L., New York, N. Y. Mailing wrapper. No. 1,432,685; Oct. 17.
- Greve, Louis W., assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Fitting for air lines and the like. No. 1,425,642; Aug. 15.
- Greve, Louis W., assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Air valve. No. 1,425,643; Aug. 15.
- Greve, Louis W., assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Valve. No. 1,425,644; Aug. 15.
- Greven, Joseph, Chicago, Ill. Means for truing aligned bearings. No. 1,434,004; Oct. 31.
- Grew, Walter F., Coventry, England, assignor to Thermoid Rubber Company, Trenton, N. J. Coupling for connecting side cars to motor cycles. No. 1,417,822; May 30.
- Grey, Charles M., East Orange, N. J. Steering-wheel lock for motor vehicles. No. 1,424,353; Aug. 1.
- Grey, Charles M., East Orange, N. J. Die casting. No. 1,435,292; Nov. 14.
- Grey, John F., New Orleans, La. Steam turbine. No. 1,438,488; Dec. 12.
- Grey, Robert, San Francisco, Calif., assignor to National Finance Company. Ball machine. No. 1,410,851; Mar. 28.
- Grey, Robert B., London, England. Mixing apparatus. No. 1,409,542; Mar. 14.
- Greyell, William, Woodinville, Wash. Eccentric for controlling steam valves on steam engines. No. 1,402,597; Jan. 3.
- Gribbie, Anna B., assignor to W. J. Scott Co., Newark, N. J. Garment. No. 1,412,683; Apr. 11.
- Grice, Arthur G., Maidenhead, England. Friction driving gear for motor cars. No. 1,409,946; Mar. 21.
- Gricunas, Ignati, Philadelphia, Pa. Braid-guiding device for sewing machines. No. 1,410,178; Mar. 21.
- Grid Flat Slab Corporation. (See Albright, Edwin F., assignor.)
- Grid-Iron-Grip Company. (See Slauson, Louis E., assignor.)
- Grieb, Alfred, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Article-attaching machine. No. 1,413,477; Apr. 18.
- Grieb, Alfred, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Glove and fur sewing machine. No. 1,426,472; Aug. 22.
- Grieb, Alfred, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Thread-controlling mechanism for sewing machines. No. 1,433,000; Oct. 24.
- Grier, Robert C. (See Turner, D., and Grier.)
- Grierson, Paul S., South Orange, N. J., assignor to Charles Cory & Son, Incorporated, New York, N. Y. Electric-switch casing. No. 1,429,133; Sept. 12.
- Grierson, Paul S., South Orange, N. J., and S. N. Mead, Brooklyn, N. Y., assignors to Chas. Cory & Son, Incorporated, New York, N. Y. Ship signaling apparatus. No. 1,405,839; Feb. 7.
- Griesedieck, Robert J., St. Louis, Mo. Hood attachment for automobiles. No. 1,403,768; Jan. 17.

Alphabetical list of patentees—Continued.

- Griesemer, Bernard J., et al. (See Walter, William L., assignor.)
- Grieshaber, Hugo E., Groton, Conn., assignor to Electric Boat Company. Valve mechanism for submarines. No. 1,417,165; May 23.
- Grieve, David, Detroit, Mich. Drafting instrument. No. 1,415,547; May 9.
- Grieves, Albert, Springfield, Ohio, assignor, by mesne assignments, to International Harvester Company. Lever. No. 1,427,684; Aug. 29.
- Grieves, Albert, Springfield, Ohio, assignor, by mesne assignments, to International Harvester Company. Combined side-delivery hay rake and tedder. No. 1,435,293; Nov. 14.
- Griewank, Arthur C., Oakland, Calif. Concrete railroad track. No. 1,413,983; Apr. 25.
- Griffin, Albert N., Denton, Md. Gate and post construction. No. 1,407,062; Feb. 21.
- Griffin, Albert P., Troy, assignor of one-half to Arrow Grip Manufacturing Company, Inc., Glens Falls, N. Y. Chain connection. (Reissue.) No. 15,445; Sept. 5.
- Griffin, Albert P., Troy, assignor to Arrow Grip Manufacturing Company, Inc., Glens Falls, N. Y. Chain connector. No. 1,436,343; Nov. 21.
- Griffin Choker Ash Tray, Inc. (See Griffin, John P., assignor.) (Reissue.)
- Griffin, Clinton W., Uita, N. Y. Lawn-edge trimmer. No. 1,410,247; Mar. 21.
- Griffin, Daniel S., Hudson Falls, N. Y. Golf head. No. 1,414,124; Apr. 25.
- Griffin, Estella, Birmingham, Ala. Pie pan. No. 1,402,065; Jan. 3.
- Griffin, James T., Oak Park, W. A. Timm, Berwyn, and A. E. Santschi, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Electric soldering iron. No. 1,428,227; Sept. 5.
- Griffin, John P., Waddington, N. Y., assignor to Griffin Choker Ash Tray Inc., Dover, Del. Ash tray. (Reissue.) No. 15,361; May 23.
- Griffin, Lorne A., Evanston, assignor to American Steam Conveyor Corporation, Chicago, Ill. Method of making cast-iron pipe sections. No. 1,416,460; May 16.
- Griffin, Lorne A., Evanston, assignor to Conveyors Corporation of America, Chicago, Ill. Target box. No. 1,438,996; Dec. 19.
- Griffin, Lorne A., Evanston, Ill., assignor to Conveyors Corporation of America, Chicago, Ill. Ash conveyor. No. 1,439,886; Dec. 26.
- Griffin, Marion A., assignor of one-half to J. D. Fonville, Jr., Seymour, Tex. Dual transmission. No. 1,416,285; May 16.
- Griffin, Michael J., Hartford, Conn. Calk. No. 1,406,374; Feb. 14.
- Griffin, Mortimer N., and R. E. George, Rome, Ga. Quick-lift pump. No. 1,417,317; May 23.
- Griffin, Percy M., assignor to Consolidated Car-Heating Company, Albany, N. Y. Steam hose coupling. No. 1,402,598; Jan. 3.
- Griffin, Samuel P., North Judson, Ind. Capstan. No. 1,435,227; Nov. 14.
- Griffin, Stephen W., Waterloo, Ill. Variable-speed mechanism. No. 1,420,253; June 20.
- Griffin, William J., Philadelphia, Pa. Quick clamp and drill guide. No. 1,432,459; Oct. 17.
- Griffith, Charles A., Knoxville, Tenn. Dumping car. No. 1,426,729; Aug. 22.
- Griffith, Dan, Tacoma, Wash. Heating device. No. 1,417,987; May 30.
- Griffith, Edward D., Tucson, Ariz. Railway lantern. No. 1,429,074; Sept. 12.
- Griffith, R. A., et al. (See Kelley, Benjamin F., assignor.)
- Griffith, Ralph R., Minneapolis, Minn. Making wheels. No. 1,435,388; Nov. 14.
- Griffith, Richard H., assignor to The Ohio Cultivator Company, Bellevue, Ohio. Implement pulverizer disk. No. 1,405,581; Feb. 7.
- Griffith, Richard H., assignor to The Ohio Cultivator Company, Bellevue, Ohio. Bearing. No. 1,439,161; Dec. 19.
- Griffith, Thomas A., Kansas City, Mo. Driving mechanism. No. 1,405,408; Feb. 7.
- Griffith, William A., et al. (See McKean, William C., assignor.)
- Griffith, William H., Worthington, Ind. Lifting jack. No. 1,436,588; Nov. 21.
- Griffiths, Edwin, Maghull, near Liverpool, England. Bucket. No. 1,424,195; Aug. 8.
- Griffiths, Harry A., Birmingham, and R. H. Griffiths, Sutton Coldfield, England. Press for operating on metal sheets. No. 1,415,838; May 9.
- Griffiths, Herbert R., Homestead, Pa. Furnace. No. 1,433,452; Oct. 24.
- Griffiths, Richard H. (See Griffiths, Harry A. and R. H.)
- Griffiths, William H., Hereford, England. Roof and the like covering. No. 1,424,566; Aug. 1.
- Grifoul, Henry, New Brighton, Pa. Wet-sand sifter. No. 1,430,443; Sept. 26.
- Grifoul, Henry, New Brighton, Pa. Spring wheel. No. 1,430,444; Sept. 26.
- Grigas, Anthony, Worcester, Mass. Track cleaner. No. 1,403,316; Jan. 10.
- Grigas, Anthony, Worcester, Mass. Paper-hanging apparatus. No. 1,412,402; Apr. 11.
- Griggs, Benjamin G., and W. E. O'Brien, Kemmerer, Wyo. Fine-fuel-feeding means for furnaces. No. 1,437,342; Nov. 28.
- Griggs, James A., Gage, Okla. Washbasin. No. 1,405,205; Jan. 31.
- Griggs, John O., Youngstown, Ohio. Front wall for open-hearth furnaces. No. 1,415,630; May 9.
- Grigsby, Bertram J., Park Ridge, assignor to Grigsby-Grunow-Hinds Co., Chicago, Ill. Electric searchlight for motor vehicles. No. 1,433,504; Oct. 24.
- Grigsby, George R., Pueblo, Colo. Disappearing observation post. No. 1,432,063; Oct. 17.
- Grigsby-Grunow-Hinds Co. (See Grigsby, Bertram J., assignor.)
- Grigsby, Harry D. (See Hoffman, C., Grigsby, and Cregor.)
- Grikscheit, William, Detroit, Mich. Carburetor. No. 1,410,748; Mar. 28.
- Grikscheit, William, Detroit, Mich. Priming cup. No. 1,415,548; May 9.
- Grikscheit, William, assignor of one-half to T. B. Mothersill, Windsor, Ontario, Canada. Drain plug. No. 1,423,418; July 18.
- Grikscheit, William, Detroit, Mich., assignor of one-half to T. B. Mothersill, Windsor, Ontario, Canada. Drain plug. No. 1,433,001; Oct. 24.
- Griley, Theodore D. (See Unkle, C. W., and Griley.)
- Grill, Calvin E., San Francisco, Calif. Gun. No. 1,402,159; Jan. 3.
- Grillich, Fridrich W., Indianapolis, Ind. Automatic flood and power dam. No. 1,438,913; Dec. 12.
- Grillone, Anthony F., Rochester, N. Y. Combination film camera and developing tank. No. 1,424,816; Aug. 8.
- Grim, Cyrus, assignor to O. W. Richardson & Co., Chicago, Ill. Presser foot for sewing machines. No. 1,411,344; Apr. 4.
- Grim, Edward H., Dott, W. Va. Door-operating apparatus. No. 1,409,096; Mar. 7.
- Grim, Robert A., St. Paul, Minn. Burner. No. 1,424,817; Aug. 8.
- Grimbel du Bois, Joseph A. F., Amsterdam, Holland. Paper holder. No. 1,413,975; Apr. 25.
- Grimditch, William H., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Battery-cell seal. No. 1,402,599; Jan. 3.
- Grimes, Claymon C., Idria, Calif. Ore-treating furnace. No. 1,430,445; Sept. 26.
- Grimes, Eugene E., Tiffin, Ohio. Tire-chain connector. No. 1,412,936; Apr. 18.
- Grimes, William A., Richmond, Ind. Newspaper binder. No. 1,412,078; Apr. 11.
- Grimm, August, Newark, N. J. Bookmark. No. 1,415,631; May 9.
- Grimm, Jacob, New York, N. Y. Gaslighter. No. 1,408,288; Feb. 28.
- Grimm, Jonathan M., Apollo, Pa. Brake. No. 1,427,801; Sept. 5.
- Grimmer, Joseph, and F. Straub, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Chromium compounds of azo dyestuffs. No. 1,402,350; Jan. 3.
- Grimord, Matthew, Forest Park, Ill. Liquid-fuel strainer. No. 1,432,687; Oct. 17.
- Grimshaw, Harry B. (See Goodin, George N., assignor.)
- Grimsrud, Edward, and T. T. Teiten, Wildrose, N. D. Wild-oats attachment for fanning mills. No. 1,404,363; Jan. 24.
- Grimsrud, Gustave, Antelope, Mont. Seat. No. 1,403,024; Jan. 10.
- Grinding Process Tool Company. (See Cogsdill, Stuart A., assignor.)
- Grindle, Aubrey J., Chicago, Ill., assignor to Grindle Fuel Equipment Company. Melting furnace. No. 1,420,312; June 20.
- Grindle Fuel Equipment Company. (See Grindle, Aubrey J., assignor.)
- Grindrod, George, Kent, Wash., assignor to Carnation Milk Products Company, Chicago, Ill. Manufacture of evaporated milk or evaporated-milk compounds. No. 1,432,686; Oct. 17.
- Grindrod, George, Oconomowoc, Wis., assignor to Carnation Milk Products Company, Chicago, Ill. Emulsifying liquids. No. 1,435,464; Nov. 14.
- Griner, Alvah A., Bayside, N. Y., assignor to The Spirella Company, Meadville, Pa. Machine for making fabricated wire. No. 1,439,411; Dec. 19.
- Griner, George S., Cleveland, Ohio. Basket. No. 1,420,542; June 20.
- Grinlinton, Harry G., North Sydney, New South Wales, Australia. Coating of metals with metals of a lower fusing point. No. 1,431,395; Oct. 10.
- Grinnell Washing Machine Company. (See Lewis, George W., assignor.)
- Gripp, Reinhold H., and J. Pygeorge, Oakland, Calif. Soap-casting machine. No. 1,434,696; Nov. 7.
- Grisak, Matt, Dubois, Pa. Rail splicer. No. 1,418,915; June 6.
- Griscom Russell Company, The. (See Brown, Stanley, assignor.)
- Griscom Russell Company, The. (See Nelson, E. H., and Dewald, assignors.)
- Griscom Russell Company, The. (See Pabodie, Robert J., assignor.)

Alphabetical list of patentees—Continued.

- Gristy, Robert, Detroit, Mich. Sash lock. No. 1,436,654; Nov. 28.
- Griswold, Adam H., Denver, Colo. Billiard counter. No. 1,416,015; May 16.
- Griswold, Albert A., Providence, R. I., assignor of one-half to J. F. Chevalier, Brookline, Mass. Flexible shingle. No. 1,427,154; Aug. 29.
- Griswold, Albert A., Providence, R. I., assignor of one-half to J. F. Chevalier, Brookline, Mass. Flexible shingle. No. 1,427,732; Aug. 29.
- Griswold, Frederic C., assignor to O. A. Griswold, Port Jefferson, N. Y. Film splicer. No. 1,413,269; Apr. 18.
- Griswold, George G., Jr. (See Sheridan, G. E., and Griswold.)
- Griswold Manufacturing Company, The. (See Griswold, Roger W., assignor.)
- Griswold, Olive A. (See Griswold, Frederick C., assignor.)
- Griswold, Ray H., Cleveland, and E. J. Powell, Berea, Ohio, assignor to The Dunham Company. Tractor-track obliterator. No. 1,422,967; July 18.
- Griswold, Robbins N., Bridgeport, Conn. Circuit distributor. No. 1,407,266; Feb. 21.
- Griswold, Roger W., assignor to The Griswold Manufacturing Company, Erie, Pa. Handle. No. 1,422,355; July 11.
- Gritzmacher, Bernhard A., Watertown, Wis. Dirigible headlight. No. 1,436,800; Nov. 28.
- Gritzmacher, Henry F., Le Sueur, Minn. Snapping roll. No. 1,421,459; July 4.
- Grizzelle, Harry O., New York, N. Y. Safety trunk and bag carrier for automobiles. No. 1,432,547; Oct. 17.
- Groat, Daniel F., Fort Dodge, Iowa. Tire-operated multiple air pump. No. 1,423,607; July 25.
- Grob, Armin R., Wilmington, Del., and C. C. Adams, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Sulphonating carbon compounds. No. 1,422,564; July 11.
- Grob, Walter. (See Stuer, B. C., and Grob.)
- Groce, George H., Chicago, Ill., and G. M. Howard, Philadelphia, Pa. Anode for electrolytic rectifiers. No. 1,436,709; Nov. 28.
- Groch, Frank, Cobalt, Ontario, Canada. Ore concentration. No. 1,413,723; Apr. 25.
- Groch, Frank, Cobalt, Ontario, Canada. Ore concentrator. No. 1,413,724; Apr. 25.
- Grochal, Floryan, Easthampton, and J. Otreba, Amherst, Mass. Repair outfit for shoemakers. No. 1,417,900; May 30.
- Grodi, Fladget, Curtis, Ohio. Headlight control for automobiles. No. 1,429,283; Sept. 19.
- Groehn, Otto J., assignor to Clayton & Lambert Manufacturing Company, Detroit, Mich. Torch burner. No. 1,420,696; June 27.
- Groehn, Otto J., assignor to Clayton & Lambert Manufacturing Company, Detroit, Mich. Wide-mouth torch burner. No. 1,420,697; June 27.
- Greene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Work support. No. 1,405,206; Jan. 31.
- Greene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Counter-shaft brake. No. 1,416,016; May 16.
- Greene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Countershaft brake. No. 1,416,017; May 16.
- Greenewegen, Gijsbertus, Delft, Netherlands. Valve for steam engines. No. 1,422,437; July 11.
- Groenke, E. H. (See Burrows, George T., assignor.)
- Groeschel, Lesser B., New York, N. Y. Safety receptacle. No. 1,432,688; Oct. 17.
- Groff, Antonio, Ridgway, Colo. Hay cutter. No. 1,427,733; Aug. 29.
- Grogan, William F., Scranton, Pa. Safety-razor hone. No. 1,424,246; Aug. 1.
- Groh, Bernard C., St. Paul, Minn., assignor to Automatic Electric Company, Chicago, Ill. Telephone repeater. No. 1,416,663; May 16.
- Groh, Henry C., Newark, N. J. Lamp-globe protector. No. 1,404,115; Jan. 17.
- Groh, Robert C., assignor to W. H. Deubener, St. Paul, Minn. Carry bag. No. 1,418,705; June 6.
- Grollman, Israel. (See Warnock, Wallace S., assignor.)
- Gronbech, Christian E. A., Woodhaven, N. Y. Shaving brush. No. 1,409,168; Mar. 14.
- Grondahl, Hans H. C., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Strand-twisting mechanism. No. 1,436,312; Nov. 21.
- Grondahl, Lars O., Pittsburgh, Pa. Headlight lens. No. 1,414,125; Apr. 25.
- Grondal, Bror L., assignor to North Coast Dry-Kiln Company, Seattle, Wash. Hot-blast dry kiln. No. 1,437,840; Dec. 5.
- Gronkwist, Oscar R., et al. (See Löfgren, Albert O. M., assignor.) (Reissue.)
- Gronlund, Adolph, Stockholm, Me. Filling mechanism. No. 1,410,097; Mar. 21.
- Groom, Gertrude E., Waltham, Mass. Doll. No. 1,435,465; Nov. 14.
- Groot, Charles W., Rochester, N. Y. Automatic reversing mechanism. No. 1,408,289; Feb. 28.
- Groover, F. E., et al. (See Skinner, Frank R., assignor.)
- Groover, John D., Atlanta, Ga. Antislipping device. No. 1,418,916; June 6.
- Gropper, Otto S., Long Island City, N. Y. Combined license plate and tail light. No. 1,437,413; Dec. 5.
- Grosoup, William F., Baltimore, Md. Boiler. No. 1,416,286; May 16.
- Grose, Richard S., Beckenham, England. Case or holder for spark plugs. No. 1,434,338; Oct. 31.
- Groshell, Oscar E. (See Fenn, W. H., and Groshell.)
- Groshell, Oscar E., Salt Lake City, Utah. Indicator. No. 1,432,460; Oct. 17.
- Grosjean, James E., Lima, Ohio. Heel for boots or shoes. No. 1,439,547; Dec. 19.
- Gross, Angell C., Philadelphia, Pa. Door strip. No. 1,404,364; Jan. 24.
- Gross, Carl W., assignor to Gross and Steiner, Bridgeport, Conn. Can opener. No. 1,426,182; Aug. 15.
- Gross, Charles W., Napa, Calif. Radiator. No. 1,428,481; Sept. 5.
- Gross, Dallas. (See Allen, Douglas M., assignor.)
- Gross, Fred G. (See Zei, F. W., and Gross.)
- Gross, Isaac, Brooklyn, N. Y. Apparel collar. No. 1,403,769; Jan. 17.
- Gross, Jesse E., assignor to W. F. Rosenwinkel, Fort Wayne, Ind. Table attachment for automobiles. No. 1,403,817; Jan. 10.
- Gross, Louis N., Cleveland Heights, Ohio. Wearing apparel. No. 1,425,008; Aug. 8.
- Gross, Mones, Berwick, Pa. Stock and display case. No. 1,432,330; Oct. 17.
- Gross, Nels. (See Duffy, Thomas I., assignor.)
- Gross, Phillip E., Ottawa, Ontario, Canada. Artificial fishing bait. No. 1,430,642; Oct. 3.
- Gross, Walter L., Augusta, Kans. Valve structure for well installations. No. 1,413,909; Apr. 25.
- Gross, Walter R., St. Paul, Minn. Coin holder. No. 1,437,733; Dec. 5.
- Gross, Wilhelm, Rottweil, Germany. Counter for looms. No. 1,435,389; Nov. 14.
- Gross and Steiner. (See Gross, Carl W., assignor.)
- Grossard, Stanley D., Blair, Nebr. Automobile direction signal. No. 1,427,102; Aug. 29.
- Grossenbacher, Ernest, Fajardo, P. R. Oil burner. No. 1,425,196; Aug. 8.
- Grossenbacher, Ernest, Fajardo, P. E. Automatic regulator. No. 1,435,921; Nov. 21.
- Grossman, Adolphe, New Orleans, La. Cravat appliance. No. 1,409,848; Mar. 14.
- Grossman, Meyer, Philadelphia, Pa. Glass-fastening device. No. 1,428,955; Sept. 12.
- Grossman, Meyer, assignor of one-half to A. M. Deutsch, New York, N. Y. Extension table. No. 1,415,549; May 9.
- Grossman, Mollie, et al. (See Dorfman, H. L., and Grossman, assignors.)
- Grossman, Morris. (See Dorfman, H. L., and Grossman.)
- Grossman, Samuel M., Chicago, Ill. Making finger rings. No. 1,431,652; Oct. 10.
- Grossmann, Hans, Zurich, Switzerland. Kindling device. No. 1,422,698; July 11.
- Grossmann, Robert, assignor to The Will & Baumer Candle Company, Syracuse, N. Y. Candle-making machine. No. 1,423,608; July 25.
- Grosso, Patrick P., Brooklyn, N. Y. Tire construction. No. 1,411,916; Apr. 4.
- Grosswege, John B., Wilkesburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake and signal system. No. 1,414,736; May 2.
- Grosvenor, Oliver, Akron, Ohio. Method of and apparatus for continuous vulcanizing. No. 1,415,929; May 16.
- Grosvenor, William M., and J. F. X. Harold, New York, N. Y.; said Harold assignor to said Grosvenor. Lighter wick. No. 1,430,543; Oct. 3.
- Grote, Walther H., Louisville, Ky., assignor to Associated Holdings Corporation, New York, N. Y. Splicing the ends of rubber tubes. No. 1,402,492; Jan. 3.
- Grotenhuis, William J. (See Pancoast, W. G., and Grotenhuis.)
- Grotenhuis, William J., Chicago, assignor to Bifex Products Company, Waukegan, Ill. Automobile bumper. No. 1,413,220; Apr. 18.
- Grotenhuis, William J., Chicago, assignor to Bifex Products Company, Waukegan, Ill. Automobile bumper. No. 1,413,221; Apr. 18.
- Grotenhuis, William J., Chicago, assignor to Bifex Products Company, Waukegan, Ill. Bumper-attaching bracket. No. 1,413,222; Apr. 18.
- Grotenhuis, William J., Chicago, Ill., assignor, by mesne assignments, to Bifex Products Company. Bumper bracket. No. 1,424,400; Aug. 1.
- Groth, Charles H., Rochester, Pa. Chamfering plane. No. 1,425,764; Aug. 15.
- Grotte, John J., Company. (See MacKay, Arthur B., assignor.)
- Grotne, Charles G., Chicago, Ill. Forming machine. No. 1,407,148; Feb. 21.
- Grotne, Charles G., Chicago, Ill. Rolling machine. No. 1,428,778; Sept. 12.
- Grotta, Bennett. (See Cook, R. M., and Grotta.)
- Grotta, Bennett, Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Composition for detonators. No. 1,439,099; Dec. 19.
- Grottiger, Miroslav, Bridgeport, Conn. Camp cooking kit. No. 1,411,624; Apr. 4.

Alphabetical list of patentees—Continued.

- Grounsell, Walter N., Syracuse, N. Y. Artificial fish bait. No. 1,434,204; Oct. 31.
- Grouse-Hinds Company. (See Bissell, Carl H., assignor.)
- Grout, Martin B., assignor to Pierce Wrapping Machine Company, Chicago, Ill. Wrapping machine. No. 1,413,725; Apr. 25.
- Grove, Charles T., Livingston, Mont. Protector for toilet seats. No. 1,411,085; Mar. 28.
- Grove, Frank H., assignor to The Banner Machine Company, Columbiana, Ohio. Trimming device. No. 1,424,012; July 25.
- Grove, Walter H., Tyrona, Pa. Tread member for anti-skidding devices. No. 1,414,638; May 2.
- Grover, Albert D., New York, N. Y., assignor to Autosales Corporation. Vending-machine indicator. No. 1,407,063; Feb. 21.
- Grover, Albert D., New York, N. Y., assignor, by mesne assignments, to Autosales Corporation. Coin-controlled vending machine. No. 1,415,337; May 9.
- Grover, Albert D., New York, N. Y., assignor, by mesne assignments, to Autosales Corporation. Coin-controlled vending machine. No. 1,418,300; June 6.
- Grover, Albert D., New York, N. Y., assignor, by mesne assignments, to Autosales Corporation. Coin-controlled vending machine. No. 1,418,301; June 6.
- Grover, Florence C., Hollywood, Calif. Kitchen-sink water-stop plug. No. 1,428,228; Sept. 5.
- Grover, John A., Colorado Springs, Colo. Merchandise display table. No. 1,412,207; Apr. 11.
- Groves, Alva S. (See Groves, Delph H. and A. S.)
- Groves, Delph H. and A. S., Terra Alta, W. Va. Tire-chain connector. No. 1,432,548; Oct. 17.
- Grow, Thomas S., Allentown, Pa. Brush for talking machines. No. 1,423,523; July 25.
- Grow, William H., Grafton, W. Va. Car brake. No. 1,430,501; Sept. 26.
- Growald, Richard, Berlin, Germany. Chandelier. No. 1,408,588; Mar. 7.
- Grube, George F., Evanston, Ill., assignor to The Belber Trunk & Bag Company, Philadelphia, Pa. Wardrobe trunk. No. 1,409,707; Mar. 14.
- Grube, George F., Evanston, Ill., assignor to The Belber Trunk & Bag Company, Philadelphia, Pa. Wardrobe trunk. No. 1,409,708; Mar. 14.
- Grube, George F., Evanston, Ill., assignor to The Belber Trunk & Bag Company, Philadelphia, Pa. Wardrobe trunk. No. 1,411,694; Apr. 4.
- Grubenmann, Max, Zurich, assignor to Aluminum-Schweisswerk A.-G., Schlieren, Switzerland. Heat-exchange device for treating milk, worts, and the like. No. 1,423,794; July 25.
- Gruber, Andrew E. (See Plumlee, D. E. and Gruber.)
- Gruber, Fred, Norfolk, Va. Valve mechanism. No. 1,432,331; Oct. 17.
- Gruber, Paul, and H. C. Bashioum, Pittsburgh, Pa.; said Bashioum assignor to said Gruber. Composition of matter produced from corncobs. No. 1,427,378; Aug. 29.
- Gruber, William G., Milwaukee, Wis. Combined letter sheet and envelope. No. 1,427,590; Aug. 29.
- Gruber, William W., Eureka, Kans. Well bailer. No. 1,431,396; Oct. 10.
- Grübner, Erhard, Borsdorf, near Leipzig, Germany. Motor tractor. No. 1,422,438; July 11.
- Gruchacz, Wladyslaw. (See Kuzzynski, Stanislaw, assignor.)
- Grudzinski, Stanislaw. (See Piernikowski, W., and Grudzinski.)
- Gruen, Henry, New York, N. Y. Smoking device. No. 1,413,580; Apr. 25.
- Gruenberg, Raoul J., San Francisco, Calif. Side curtain for automobiles. No. 1,415,441; May 9.
- Gruenberg, Raoul J., San Francisco, Calif., assignor to The Paraffine Companies Inc. Object retainer. No. 1,408,191; Feb. 28.
- Gruenberg, Walter A., Detroit, Mich. Toy building blocks. No. 1,436,710; Nov. 28.
- Gruenberg, Walter A., and D. Miller, Detroit, Mich., assignors to The Miller Transmission Company, New York, N. Y. Milling machine. No. 1,422,850; July 18.
- Gruendler, Gustav J., Clayton, Mo. Refrigerator. No. 1,427,207; Aug. 29.
- Gruenfeld, Julius J., Jr., Chicago, Ill. Apparatus for making concrete poles. No. 1,403,683; Jan. 17.
- Gruenhagen, Richard E., Oshkosh, Wis. Sanding machine. No. 1,437,414; Dec. 5.
- Gruetter, Cornelius F., San Francisco, Calif. Telegraph transmitter attachment. No. 1,438,107; Dec. 5.
- Gruetter, John R. (See Loew, C. H., and Gruetter.)
- Grumpelt, Oskar F. A. E., assignor to R. Huesmann, Hamburg, Germany. Metal barrel. No. 1,403,404; Jan. 10.
- Grundig, George E., and S. Dibbins, Brooklyn, N. Y. Rim. No. 1,428,432; Sept. 5.
- Grundy, Alfred A., et al. (See Kolb, Joseph F., assignor.)
- Gruener, Otto, Aarau, Switzerland. Machine for washing crockery. No. 1,434,887; Nov. 7.
- Grunewald, Edward F., Kamiah, Idaho. Mirror adjuster. No. 1,407,149; Feb. 21.
- Grunewald, George G., Perryville, and M. Sweet, Mifflin, Ohio. Perpetual calendar. No. 1,426,982; Aug. 22.
- Grunewald, Robert H. C. (See Bath, J., and Grunewald.)
- Grunewald, Robert H. C. (See Clifford, H. F., and Grunewald.)
- Grünfeld, Zigmund, New York, N. Y. Photographic camera. No. 1,432,180; Oct. 17.
- Grünstein, Nathan, Frankfort-on-the-Main, Germany. Manufacture of aldol from acetaldehyde. No. 1,437,139; Nov. 28.
- Grünstein, Nathan, Frankfort-on-the-Main, and P. Berge, Griesheim-on-the-Main, Germany. Extending the catalytic activity of mercury compounds. No. 1,431,301; Oct. 10.
- Grunwald, Carl, Essen-Bredene, assignor to Fried. Krupp Aktiengesellschaft Germaniawerft, Kiel-Gaarden, Germany. Cooling device for internal-combustion engines. No. 1,422,565; July 11.
- Grupe, Roy M., and W. L. Quest, Broadview, Mont. Steering attachment for Fordson tractors. No. 1,413,726; Apr. 25.
- Grupe, William F. (See Adamson, A. A., and Grupe.)
- Grupe, William F., Hudson Heights, N. J., assignor to Endless Belt Corporation, Inc. Belt. No. 1,403,859; Jan. 17.
- Grupe, William F., Hudson Heights, N. J., assignor to Endless Belt Corporation, Inc. Cut-off mechanism. No. 1,418,437; June 6.
- Grus, William, Jr., Chicago, Ill. Leaf-spring lubricator. No. 1,405,582; Feb. 7.
- Grush, Elmer B., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cementing machine. No. 1,404,200; Jan. 24.
- Grushlaw, George, et al. (See Kolb, Joseph F., assignor.)
- Gruss, Lucien E., assignor to Pneumatic Cushion Co., San Francisco, Calif. Air-spring rigging. No. 1,422,566; July 11.
- Gruss, Roland M., assignor to Diamond Air Springs Company, San Francisco, Calif. Shock absorber. No. 1,424,721; Aug. 1.
- Grüttefen, Wilhelm. (See Berendes, R., and Grüttefen.)
- Grützmann, Heinrich, assignor to Firm Bing-Werke, vorm. Gebr. Bing A.-G., Nuremberg, Germany. Column-adjusting device for typewriting machines. No. 1,429,341; Sept. 19.
- Gruver, David H., deceased; J. R. Gruver, executor, assignor to J. R. Gruver, Augusta, Kans. Power take-off. No. 1,421,214; June 27.
- Gruver, J. R., executor. (See Gruver, David H.)
- Grymes, Mason F. (See Peck, Calvin, assignor.)
- Grzebinski, Stanley, Ituna, Saskatchewan, Canada. Fountain paintbrush. No. 1,425,959; Aug. 15.
- Grzesik, Marcin. (See Kosman, J., and Grzesik.)
- Gzrosko, Louis, Auburn, N. Y. Rail joint. No. 1,427,287; Aug. 29.
- Gschwender, Joseph J., Dayton, Ohio. Automatic safety shutter for cinematograph machines. No. 1,426,630; Aug. 22.
- Gschwind, Leon, Youngstown, Ohio, assignor to M. B. Bonnevie, Chicago, Ill. Manhole frame and cover. No. 1,417,377; May 23.
- Gstalter, Paul A., Pittsburgh, Pa., assignor to The Ohio Varnish Company, Cleveland, Ohio. Graining tool. No. 1,407,150; Feb. 21.
- Guarantee Liquid Measure Company. (See MacKenzie, George W., assignor.)
- Guarantee Liquid Measure Company. (See Sherwood, George E., assignor.)
- Guarantee Liquid Measure Company. (See Woodruff, Frank, assignor.)
- Guarantee Specialty Manufacturing Company, The. (See Rose, Anton, assignor.)
- Guard, Charles F., Phoenixville, Pa. Bottle stopper. No. 1,425,009; Aug. 8.
- Guard, George, Atlantic City, N. J. Window. No. 1,414,947; May 2.
- Guardian Savings and Trust Company, The, trustee. (See Root, William D., assignor.)
- Guardino, Vincenzo, Brooklyn, N. Y. Sign. No. 1,426,983; Aug. 22.
- Guardino, Vincenzo, Brooklyn, N. Y. Cutting machine. No. 1,434,888; Nov. 7.
- Guastavino, R., Company. (See Guastavino, Rafael, assignor.)
- Guastavino, Rafael, Bay Shore, N. Y., assignor to R. Guastavino Company. Acoustical facing material for interiors. No. 1,440,073; Dec. 26.
- Guay, Arthur J. (now by judicial change of name J. A. Guay), Lynn, Mass. Fuel-feed system for internal-combustion engines. No. 1,435,117; Nov. 7.
- Guay, Emile J., Lynn, Mass., assignor to General Electric Company. Friction roll for spinning and drawing textile fibers. No. 1,436,956; Nov. 28.
- Guay, Joseph A. (See Guay, Arthur J.)
- Gubelmann, William S., Buffalo, N. Y. Adding and recording machine. No. 1,429,201; Sept. 12.
- Gubelmann, William S., Buffalo, N. Y. Adding and recording machine. No. 1,429,202; Sept. 12.
- Gubin, Frederick E., Racine, Wis. Reserve-supply tank. No. 1,416,554; May 16.
- Guckert, Edward N., Toledo, Ohio. Banjo. No. 1,412,239; Apr. 11.
- Gudeman, David, Francesville, Ind. Banker's protecting stand. No. 1,414,568; May 2.
- Gudeman, Leo, New York, N. Y. Lamp vaporizer. No. 1,403,548; Jan. 17.
- Gudge, Benjamin J. (See Kempton, W. H., Gudge, and Lauffer.)

- Gudge, Benjamin J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Sheet-winding machine. No. 1,431,946; Oct. 17.
- Gudith, Walter. (See Hacking, John G., assignor.)
- Gudknecht, Albert F., Minneapolis, Minn. Securing rims for receptacle covers. No. 1,417,166; May 23.
- Guedel, Charles F., Indianapolis, assignor of one-half to Guedel Manufacturing Co., Inc., Portland, Ind. Smoker's pipe. No. 1,417,823; May 30.
- Guedel Manufacturing Co. (See Guedel, Charles F., assignor.)
- Guelbaum, David, Syracuse, N. Y. Closed high-temperature lighting burner. No. 1,403,770; Jan. 17.
- Guelbaum, David, Syracuse, N. Y. Diffused-heat-radiation apparatus or oven. No. 1,409,293; Mar. 14.
- Guelbaum, David, Syracuse, N. Y. Continuous-current blower or hand pump. No. 1,411,016; Mar. 28.
- Guelbaum, David, Syracuse, N. Y. Closed adjustable lighting burner. No. 1,411,273; Apr. 4.
- Guelbaum, David, Syracuse, N. Y. Diffused-heat-radiation chamber for home cooking and baking. No. 1,411,274; Apr. 4.
- Guelbaum, David, Syracuse, N. Y. Automatic mixing and proportioning device or valve. No. 1,419,455; June 13.
- Guelbaum, David, Syracuse, N. Y. Wickless oil burner for lighting and heating. No. 1,421,215; June 27.
- Guelbaum, David, Syracuse, N. Y. Mixing and proportioning device or valve. No. 1,437,649; Dec. 5.
- Guenther, Alexander, Walsh, Alberta, Canada. Plowshare. No. 1,410,403; Mar. 21.
- Guenther, Henry L., Los Angeles, Calif. Seaming head for double-seaming machines. No. 1,440,143; Dec. 26.
- Guenther, Henry L., Los Angeles, Calif. Can-capping machine. No. 1,440,289; Dec. 26.
- Guenzel, Ernest J., Milwaukee, Wis. Hair curler. No. 1,406,375; Feb. 14.
- Guérét, André L. P., Paris, France. Valve mechanism for internal-combustion engines. No. 1,425,381; Aug. 8.
- Guerin, Simone A., New York, N. Y. Glove. No. 1,424,639; Aug. 1.
- Guerin, William J., Brooklyn, N. Y. Ice-cream-dispensing machine. No. 1,422,198; July 11.
- Guernsey, Charles, Wabash, Ind. Wheel. No. 1,424,818; Aug. 8.
- Guernsey, Charles C., East Barrington, N. H. Phonographic apparatus. No. 1,427,734; Aug. 29.
- Guernsey, Ernest W., and J. Y. Yee, Washington, D. C. Producing phosphoric acid. No. 1,422,699; July 11.
- Guernsey, Fay H., Buffalo, assignor to The Electric Smelting & Aluminum Co., Lockport, N. Y. Detergent compound and making the same. No. 1,419,625; June 13.
- Guernsey, Frank A., et al. (See Mallard, H., and White, assignors.)
- Guerra, John B. (See Pesavanto, Albert F., assignor.)
- Guerra y Marrero, Vicente Caibarien, Cuba. Cultivator. No. 1,413,910; Apr. 25.
- Guerrant, John L., Sedalia, Mo. Freight-car door. No. 1,403,945; Jan. 17.
- Guerrant, John L., Sedalia, Mo. Freight-car door. No. 1,407,064; Feb. 21.
- Guerrant, John L., Sedalia, Mo. Grain-car door. No. 1,410,565; Mar. 28.
- Guerrero, Benigno, Los Angeles, Calif. Orange clipper. No. 1,438,374; Dec. 12.
- Guerrero, Edwardo H., San Antonio, Tex. Combined spanner and wrench. No. 1,405,207; Jan. 31.
- Guerrero P., Ricardo, Valparaiso, Chile. Ink-line-making attachment for typewriting machines. No. 1,433,453; Oct. 24.
- Guerriero, Thomas, Tuxedo Park, N. Y. Handsaw attachment. No. 1,411,017; Mar. 28.
- Guerrlich, Frederick C., Stamford, Conn. Fluid-pump mechanism. No. 1,423,559; July 25.
- Guest Neckwear Company. (See Guest, Theodore M., assignor.)
- Guest, Theodore M., assignor to Guest Neckwear Company, Rochester, N. Y. Necktie holder. No. 1,426,183; Aug. 15.
- Gnett, Monroe, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric-appliance receiving box. No. 1,411,086; Mar. 28.
- Guggenbuehler, Carl, Newark, N. J. Tool for facilitating the adjustment of the driving shoes of locomotives. No. 1,423,795; July 25.
- Guggenbuehler, Carl, Newark, N. J. Universal lubricating device. No. 1,440,074; Dec. 26.
- Guggenheim, Markus, Basel, Switzerland, assignor to The Hoffmann-La Roche Chemical Works, New York, N. Y. Complex silver salts of α -amino acids. No. 1,417,167; May 23.
- Guggenheim, Solomon D. (See Benjamin, D. H., and Curtis, assignors.)
- Guzino, Carmelo, Buffalo, N. Y. Window shutter. No. 1,407,856; Feb. 28.
- Guhl, August C., Chicago, Ill. Nutcracker. No. 1,415,338; May 9.
- Guberson Corporation, The. (See Crowell, Erd. V., assignor.) (Reissue.)
- Guberson Corporation, The. (See Montgomery, Gustavus A., assignor.)
- Guberson Corporation. (See Wilson, Robert A., assignor.)
- Guice, John W., Los Angeles, Calif. Oiler case for safety-razor blades or the like. No. 1,438,305; Dec. 12.
- Guidry, Frank, Orange, Tex. Soft-collar holder. No. 1,408,290; Feb. 28.
- Guignard, Gaston P., Melun, France. Decomposition of nitrogen compounds of titanium. No. 1,411,087; Mar. 28.
- Guild, John S. (See McIntosh, S., and Guild.)
- Guild, Walter C., Marionville, Mo. Inner-tube protector. No. 1,420,655; June 27.
- Guildford, Charles T., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,412,518; Apr. 11.
- Guille, John, Guernsey, Channel Islands. Load-carrying attachment for motor cars. No. 1,418,438; June 6.
- Guillemet, François L., San Francisco, Calif. Propeller. No. 1,421,460; July 4.
- Guillery, René, assignor to Société des Etablissements Malicet & Blin, Aubervilliers, Seine, France. Vehicle suspension. No. 1,422,567; July 11.
- Guillet, Albert M., Charlotte, N. C. Gage. No. 1,428,690; Sept. 12.
- Guinard, Paul A., Paris, France. Pump. No. 1,409,097; Mar. 7.
- Guindon, Alexandre, Rockland, Ontario, Canada. Computing machine. No. 1,416,194; May 16.
- Guinzburg, Victor, assignor to I. B. Kleinert Rubber Company, New York, N. Y. Powder puff. No. 1,439,734; Dec. 26.
- Guterman, Kenneth S., Lawrence, N. Y. Recovery of zinc. No. 1,438,643; Dec. 12.
- Gula, Wladyslaw, and M. J. Glogowski, Thorndike, Mass. Oiling device. No. 1,402,857; Jan. 10.
- Gulbransen-Dickinson Company. (See Boettcher, Arthur H., assignor.)
- Guldbeck, Carl C., Beacon, N. Y. Driving mechanism for mixing machines. No. 1,426,984; Aug. 22.
- Gulf Pipe Line Company. (See Seibert, F. M., and Gregg, assignors.)
- Gulf Refining Company. (See Alexander, Clive M., assignor.)
- Gulf Refining Company. (See Bacon, R. F., and Brooks, assignors.)
- Gulf Refining Company. (See McAfee, Almer M., assignor.)
- Gulick, David E., San Francisco, Calif. Flushing device. No. 1,437,650; Dec. 5.
- Gulick, Edward J., Elkhart, Ind. Antirattler for steering knuckles. No. 1,414,737; May 2.
- Gull, Adolf E., London, England. Centrifugal and turbine pump and the like. No. 1,413,911; Apr. 25.
- Gullage, Joseph, Somerville, assignor of two-thirds to F. F. Coggin, Medford, Mass. Sliding-door controller. No. 1,411,625; Apr. 4.
- Gullborg, Arthur V., Chicago, Ill., assignor, by mesne assignments, to The Baskick Manufacturing Company. Lubricating apparatus. No. 1,404,758; Jan. 31.
- Gullborg, John S., Chicago, Ill., assignor, by mesne assignments, to The Rotary King Safety Razor Company, New York, N. Y. Safety razor. No. 1,417,988; May 30.
- Gulliford, Nicholas L., Lynn, Mass., assignor to Gregory & Read Company. Heel-shaping machine. No. 1,433,002; Oct. 24.
- Gulyban, John F., Cleveland, Ohio. Sound-reproducing record. No. 1,434,005; Oct. 31.
- Gumber, Joseph, and F. F. Fearheiley, assignors to Automatic Takeup Nut Company, East Moline, Ill. Compensating device. No. 1,423,480; July 18.
- Gumbert, Max, assignor to the Firm Josola Gesellschaft für Wärme-und Kälte-Jsolierung, Rudolstadt, Great Thuringia, Germany. Making double-walled glass vessels. No. 1,411,781; Apr. 4.
- Gump, B. F., Company. (See Drayer, Emil R., assignor.)
- Gund, Adolf, New York, N. Y. Toy animal. No. 1,438,108; Dec. 5.
- Gundal, Peter, Boston, Mass. Carrier for attachment to vehicles. No. 1,409,543; Mar. 14.
- Gundermann, Philip H., Chicago, Ill. Fuel valve. No. 1,418,073; May 30.
- Gundersen, Albert, Seattle, Wash. Countersinking attachment for auger bits. No. 1,435,639; Nov. 14.
- Gunderson, Arthur J., et al. (See Gunderson, Julia A., assignor.)
- Gunderson, Charles A., and R. P. Mason, Escanaba, Mich. Road raking and sweeping device. No. 1,428,283; Sept. 5.
- Gunderson, Julia A., Sergeant Bluff, Iowa, assignor of one-third to A. J. Gunderson, Long Beach, Calif., and one-third to G. G. Strong, Sioux City, Iowa. Catamenial sack. No. 1,419,044; June 6.
- Gunkel, Harry H., Chicago, Ill. Measuring device. No. 1,419,374; June 13.
- Gunn, Charles H., Oakland, Calif. Ball cock for flush tanks. No. 1,408,192; Feb. 28.
- Gunn, Charles H., Oakland, Calif. Combined table and bookcase. No. 1,428,629; Sept. 12.
- Gunn, Charles H., Emeryville, assignor of one-ninth to C. H. Black, Oakland, and one-ninth to F. O. Nebeker, Oakland, Calif. Toilet flush. No. 1,407,998; Feb. 28.
- Gunn, Earl G. (See Church, H. D., and Gunn.)
- Gunn, Earl G., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. No. 1,431,112; Oct. 3.
- Gunn, Earl G., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. No. 1,434,610; Nov. 7.
- Gunn, Earl G., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. No. 1,434,611; Nov. 7.

Alphabetical list of patentees—Continued.

- Gunn, James. (See Fothergill, H., and Gunn.)
 Gunn, James. (See Higgins, C. F., and Gunn.)
 Gunn, Oscar R., Tulsa, Okla. Portable acetylene generator. No. 1,433,003; Oct. 24.
 Gunn, Robert W., and W. A. S. Thompson, Los Angeles, Calif. Valve seat. No. 1,424,094; July 25.
 Gunn, Shelton J., Gunntown, Fla. Iron-bound box cover. No. 1,429,134; Sept. 12.
 Gunning, Alfred. (See Gunning, Chriss and A.)
 Gunning, Chriss and A., Lansford, N. Dak. Blower-discharge-pipe-operating device. No. 1,421,080; June 27.
 Gunning, Eugene M. (See Bosworth, G. P., and Gunning.)
 Gunning, William A. (See Maynard, A. E., and Gunning.)
 Gunning, William A., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,434,889; Nov. 7.
 Gunter, Hiram L. (See Holstein, B. F., and Gunter.)
 Gunther, E. & A. Ltd. (See McLaren, Andrew B., assignor.)
 Gunther, Fritz, assignor to Badische Anilin- & Soda-Fabrik, Ludwigshafen-on-the-Rhine, Germany. Manufacture of thymol. No. 1,412,937; Apr. 18.
 Günther, Fritz, assignor, by mesne assignments, to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Bavaria, Germany. Manufacturing yellow coloring matters for dyeing animal fibers. No. 1,430,899; Oct. 3.
 Gurgel, Paul F., Neillville, assignor of one-half to P. Heiser, Marshfield, Wis. Sawdust-conveying attachment. (Reissue.) No. 15,262; Jan. 10.
 Gurke, John A., assignor to Essex Motors, Detroit, Mich. Bonnet corner pad for automobiles. No. 1,415,632; May 9.
 Gurley, Robert E., assignor to T. W. Snow Construction Company, Chicago, Ill. Hoisting mechanism. No. 1,404,287; Jan. 24.
 Gurney, Edmund, Portland, Oreg. Dress form. No. 1,416,405; May 16.
 Gurney Elevator Company. (See Trumm, Henry, assignor.)
 Gurney, Harold A., Winnipeg, Manitoba, Canada. Paper cabinet. No. 1,415,170; May 9.
 Gurr, Charles S., Vienna, Ga. License tag. No. 1,401,977; Jan. 3.
 Gusdorf, Harold M., Indianapolis, Ind. Two-ply pigskin belt. No. 1,404,848; Jan. 31.
 Gushwa, Charles, Elkhart, Ind. Wire-fence tightener. No. 1,423,211; July 18.
 Gusmer, Aage, West End, N. J. Clarifying fruit juices. No. 1,406,554; Feb. 14.
 Gussa, Arvin, Roswell, N. Mex. Oven. No. 1,429,870; Sept. 19.
 Gussett, John, Bridgeport, Conn. Collar fastener. No. 1,427,531; Aug. 29.
 Gustafson, Adolph P., assignor to M. Schulz Company, Chicago, Ill. Musical instrument. No. 1,403,357; Jan. 10.
 Gustafson, Adolph P., assignor to M. Schulz Company, Chicago, Ill. Tracking device for automatic musical instruments. (Reissue.) No. 15,332; Apr. 11.
 Gustafson, Adolph P., assignor to M. Schulz Company, Chicago, Ill. Pneumatic action for player pianos and the like. No. 1,423,505; July 18.
 Gustafson, Adolph P., assignor to M. Schulz Company, Chicago, Ill. Pneumatically-operated musical instrument. No. 1,428,501; Sept. 5.
 Gustafson, Adolph P., Chicago, Ill., assignor to M. Schulz Company. Sheet-controlling mechanism. No. 1,429,905; Sept. 19.
 Gustafson, Adolph P., Chicago, Ill., assignor to M. Schulz Co. Sheet-controlling mechanism. No. 1,429,906; Sept. 19.
 Gustafson, Alfred, Junction City, Kans. Saw set. No. 1,436,498; Nov. 21.
 Gustafson, Anne C. (See Gustafson, Axel R., assignor.)
 Gustafson, Axel R., assignor to A. C. Gustafson, Chicago, Ill. Mangle. No. 1,435,157; Nov. 14.
 Gustafson, Charles J. (See Cole, D., and Gustafson.)
 Gustafson, Charles S., Philadelphia, Pa. Abrading device. No. 1,415,171; May 9.
 Gustafson, Gunnar, Avesta, A. A. Jungmarker, Stockholm, and K. A. Caspersson, Engelsberg, Sweden. Producing silicon-manganese-chrome steel. No. 1,423,847; July 25.
 Gustafson, Gustaf F., Chicago, Ill. Compressed-air draw-molding machine. No. 1,426,378; Aug. 22.
 Gustafson, Harold E., Harcourt, Iowa. Mail-box signal. No. 1,405,583; Feb. 7.
 Gustafson, Oscar R., assignor of one-half to G. S. Scott, Chicago, Ill. Belt guard. No. 1,433,815; Oct. 31.
 Gustafsson, Carl A., Malmö, Sweden. Apparatus for issuing receipts from electricity meters, gas meters, and the like. No. 1,434,339; Oct. 31.
 Gustine, Franklin J., Chicago, Ill. Condenser for automobile radiators. No. 1,428,433; Sept. 5.
 Gusy, Eugene, Buffalo, N. Y. Sash lock. No. 1,424,900; Aug. 8.
 Gutekunst, George, and C. Mag, Pittsburgh, Pa. Razor-honing device. No. 1,420,656; June 27.
 Gutenson, Joseph A., Chicago, Ill. Grinder. No. 1,429,135; Sept. 12.
 Guth, Edwin F., assignor to St. Louis Brass Manufacturing Company, St. Louis, Mo. Lighting fixture. No. 1,418,302; June 6.
 Guth, George J., Denver, Colo. Gasoline indicator for automobiles. No. 1,427,803; Sept. 5.
 Guthrie, George B. (See Slater, V., and Guthrie.)
 Guthrie, Peter E., Morristown, S. Dak. Tractor wheel and driving means. No. 1,434,006; Oct. 31.
 Gutman, Harry, Chicago, Ill. Wrench. No. 1,418,256; May 30.
 Gutmann, Ferdinand, & Co. (See Cohn, Benno, assignor.)
 Gutmann, John, Jr., Ridgewood, N. Y. Jacking apparatus. No. 1,416,633; May 16.
 Gutmann, Ludwig, St. Louis, Mo. Arch support. No. 1,417,600; May 30.
 Gutmann, Ludwig, St. Louis, Mo. Foot support. No. 1,417,989; May 30.
 Gutridge, John A., and J. A. Wood, McLoud, Okla. Road drag. No. 1,434,287; Oct. 31.
 Gutter, Adam, Horning, Pa. Collapsible chair. No. 1,420,095; June 20.
 Guttly, Alphonse, Wisconsin Rapids, Wis. Cutting tool and holder. No. 1,415,237; May 9.
 Guy, Albert E., U. S. Army. Device for generating high pressure. No. 1,419,844; June 13.
 Guy, Albert E., U. S. Army. Treatment by pressure of cast and forged steel tubes. No. 1,419,845; June 13.
 Guy, Hiram D., assignor to The Dunham Company, Berea, Ohio. Draft appliance. No. 1,402,415; Jan. 3.
 Guy, Sydney S., Finchfield, Wolverhampton, England. V-type internal-combustion engine. No. 1,416,348; May 16.
 Guy, Theodore E. (See Smith, Edward D. and R. T., assignors.)
 Guy, Theodore E. (See Wessels, Christie E., assignor.)
 Guy, Walter B., St. Augustine, Fla. Composition of matter for and method of soil inoculation. No. 1,411,088; Mar. 28.
 Guy, Walter B., St. Augustine, Fla. Dehydrating plant. No. 1,412,684; Apr. 11.
 Guyatt, Christopher G. (See Allebrand, C. W., and Guyatt.)
 Guye, Philippe A., Geneva, Switzerland, assignor to Ferdinand Gros & Bouchardy, Paris, France. Manufacture of nitric acid. No. 1,407,530; Feb. 21.
 Guye, Philippe A., Geneva, Switzerland, assignor to L'Azote Français, Société Anonyme, Paris, France. Recovering nitrous vapors in the form of aqueous nitric acid. No. 1,433,004; Oct. 24.
 Guyette, Harry R. (See Guyette, William H. and H. R.)
 Guyette, William H. and H. R., St. Albans, Vt. Stanchion. No. 1,435,158; Nov. 14.
 Guyot, Alfred, Salindres, France, assignor to "la Compagnie des Produits Chimiques d'Alais et de la Camarque," Salindres, France. Making acetic acid by oxidation of acetic aldehyde. No. 1,409,098; Mar. 7.
 Guzowski, Nicholas, Thompsonville, Conn. Automatic loom stop. No. 1,434,539; Nov. 7.
 Gwinn, George W., Edgemere, N. Y., assignor to Automatic Packing & Labeling Company, Durham, N. C. Weighing mechanism. No. 1,425,251; Aug. 8.
 Gwinn, George W., New York, N. Y., and J. W. Leary, Allendale, N. J., assignors to Automatic Packing & Labeling Company, Durham, N. C. Machine for applying stamps and the like to packages or containers. No. 1,425,250; Aug. 8.
 Gwinn, Orthon D., McKendree, W. Va. Track gauge. No. 1,405,113; Jan. 31.
 Gwozdz, Joseph S., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Apparatus and method of calendering rubber. No. 1,402,160; Jan. 3.
 Gwyer, Herbert J., Yonkers, N. Y. Tank refrigerator. No. 1,407,857; Feb. 28.
 Gwynn, George W., Salt Lake City, Utah. Wreck-indicating buoy. No. 1,414,273; Apr. 25.
 Gyzer, Jasper O., et al. (See Evans, Joseph E., assignor.)
 Gyllin, Berth U. S., assignor to N. W. Thybony, Chicago, Ill. Automobile axle reinforcement. No. 1,431,302; Oct. 10.
 Gynn, Hattie E., Cleveland Heights, Ohio. Spring seat. No. 1,418,561; June 6.
 Gysel, Max E., Wilksburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Coil-winding apparatus. No. 1,431,947; Oct. 17.
 H-B Corporation. (See Ormsby, Frank E., assignor.)
 H. & E. Co., The. (See Eibye, Carl, assignor.)
 H. R. Manufacturing Company. (See Menard, H. J., and Saxton, assignors.)
 H. R. Manufacturing Company. (See Menard, Henry J., assignor.)
 H. R. Manufacturing Company. (See Saxton, Augustus C., assignor.)
 H. S. & S. Manufacturing Co. (See Hartman, Richard A., assignor.)
 H. S. B. W.-Cochrane Corporation. (See Wallem, Axel B., assignor.)
 H. S. B. W.-Cochrane Corporation. (See Yoder, Joseph D., assignor.)
 H. W. K. Company. (See Kissick, George E., assignor.)
 Haack, Gustave, Madison, Wis. Outboard buoy for boats. No. 1,417,824; May 30.
 Haacke, Albert. (See Meyer G., and Haacke.)
 Haag, Jacobus, Amsterdam, Netherlands. Apparatus for regulating the liquid level of steam or other vapor generators. No. 1,410,805; Mar. 28.

- Haarbye, Storm B., Coraopolis, and H. G. McIlvried, Pittsburgh, Pa., assignors to American Sheet and Tin Plate Company, Pittsburgh, Pa. Doubling apparatus. No. 1,427,804; Sept. 5.
- Haas, Louis, assignor to the Société Chimique de la Grande Parissise, Paris, France. Preparation of aromatic nitramines. No. 1,423,494; July 18.
- Haas, Nelson R., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Armature for dynamo-electric machines. No. 1,406,184; Feb. 14.
- Haas, Reed. (See Proffitt, John H., assignor.)
- Haas, Rupert, St. Louis, Mo. Utensil-handling device for bake ovens. No. 1,423,320; July 18.
- Haasch, Julius F. (See Krause, William E., assignor.)
- Haase, Adolph L., New London, Wis. Sawmill dog. No. 1,415,172; May 9.
- Haase, Arthur P., Chicago, Ill., assignor to Ozone Pure Airifier Company. Ozone machine. No. 1,403,025; Jan. 10.
- Haase, August W., Fenton, Iowa. Corn-sheller drag truck. No. 1,439,235; Dec. 19.
- Haase, Jorgen I., assignor to The Wrapping Ad Machine Co., Towson, Md. Combined roll-paper holder and printer. No. 1,418,562; June 6.
- Habbart, John, Prairie du Chien, Wis. Conveyer. No. 1,438,914; Dec. 12.
- Habbema, Hermanus T., Amsterdam, Netherlands. Preparation of artificial milk products. No. 1,403,405; Jan. 10.
- Habben, John F. (See Ackerman, H. F., and Habben.)
- Habbert, Enno H. A., and E. Stone, Troy, N. Y., assignor to The Singer Manufacturing Company. Thread cutter for sewing machines. No. 1,411,089; Mar. 28.
- Haber, Henry J., assignor of thirty per cent to P. North, thirty per cent to G. M. Potter, and ten per cent to W. Hoyt, Cleveland, Ohio. Treating charcoal. No. 1,407,531; Feb. 21.
- Habermann, Alfred, Munich, Germany. Artificial knee joint. No. 1,421,216; June 27.
- Haberstroh, Louis, jr. (See Szucs, G., and Haberstroh.)
- Habib, Vita, and L. Benmayor, Cincinnati, Ohio. Radiator. No. 1,412,862; Apr. 18.
- Habicht, Henry A., Indianapolis, Ind. Device for drilling and enlarging holes. No. 1,433,816; Oct. 31.
- Habrie, Jules, Clarksburg, Calif. Transmission mechanism. No. 1,411,345; Apr. 4.
- Hachalacht, Michael, assignor of one-fourth to G. L. Livingston and one-fourth to A. Okum, New York, N. Y. Air heater. No. 1,421,939; July 4.
- Hachmann, Frederick, assignor, by mesne assignments, to Lewis Manufacturing Company, St. Louis, Mo. Key-ring holder. No. 1,408,589; Mar. 7.
- Hachmann, Frederick, assignor to W. H. Gregg, St. Louis, Mo. Milk-bottle closure. No. 1,418,439; June 6.
- Hachmann, Frederick, assignor to W. H. Gregg, St. Louis, Mo. Manifold sales book and cover therefor. No. 1,421,461; July 4.
- Hachmann, Frederick, assignor to W. H. Gregg, St. Louis, Mo. Sales-book cover. No. 1,426,631; Aug. 22.
- Hachmann, Frederick, assignor to W. H. Gregg, St. Louis, Mo. Sales-book cover. No. 1,426,632; Aug. 22.
- Hachmuth, Henry C., Comstock Park, Mich. Cherry-stemming machine. No. 1,403,946; Jan. 17.
- Hack, Ernest B., assignor of one-half to G. M. Burt, Westminster, London, England. Stamp battery and the like. No. 1,437,515; Dec. 5.
- Hacker, Frederick J., Waterloo, Iowa. Drainage means for combination gutters. No. 1,412,685; Apr. 11.
- Häcker, Fritz, Spandau, assignor to Deutsche Werke Aktiengesellschaft, Berlin, Germany. Agricultural rake. No. 1,419,255; June 13.
- Hacker, Henry T., Lovell, Wyo. Gate hinge. No. 1,423,321; July 18.
- Hacker Manufacturing Co. (See Christopherson, Alfred C., assignor.)
- Hackett, Bert G., assignor of one-half to A. Cooperman, Providence, R. I. Air-valve cap. No. 1,403,406; Jan. 10.
- Hackett, Bert G., assignor to Hackett Products Co., Providence, R. I. Handle extension. No. 1,417,990; May 30.
- Hackett, Clarence G., Seattle, Wash. Bottle carrier. No. 1,411,695; Apr. 4.
- Hackett, Charles H., Castle Hill, assignor to W. W. Marsh, Waterloo, Iowa. Convertible cream separator. No. 1,437,651; Dec. 5.
- Hackett Products Co. (See Hackett, Bert G., assignor.)
- Hacking, Edward, Pawtucket, R. I. Electric storage battery. No. 1,421,217; June 27.
- Hacking, Edward, Central Falls, R. I., assignor, by mesne assignments, to Electrol Manufacturing Company. Electric storage battery. No. 1,416,195; May 16.
- Hacking, John G., assignor of one-half to W. Gudith, Detroit, Mich. Water-power apparatus. No. 1,422,700; July 11.
- Hackländer, Max, Naviges, Germany. Padlock. No. 1,407,267; Feb. 21.
- Hackländer, Max, Naviges, Germany. Lock. No. 1,407,269; Feb. 21.
- Hackman, Harry, Toronto, Ontario, Canada. Hot-water circulating system. No. 1,404,365; Jan. 24.
- Hackman, William C., assignor of one-half to M. Zinke, Milwaukee, Wis. Soldering-iron attachment for acetylene-torch heads. No. 1,428,956; Sept. 12.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation. Paterson, N. J. Cutting machine. No. 1,409,169; Mar. 14.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-treating apparatus. No. 1,410,470; Mar. 21.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting machine. No. 1,416,707; May 23.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Drying apparatus. No. 1,426,379; Aug. 22.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Leather-straightening machine. No. 1,427,806; Sept. 5.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Protecting shoes during toe softening. No. 1,429,237; Sept. 19.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting machine. No. 1,430,546; Oct. 3.
- Hadaway, John B., Swampscott, and I. C. Buckminster, Beverly, Mass., assignors, by mesne assignments, to Fitz-Empire Double Pivot Last Company, Auburn, Me. Boring machine. No. 1,427,805; Sept. 5.
- Hadaway, William S., Jr., New Rochelle, N. Y. Electric stove or heater. No. 1,406,850; Feb. 14.
- Hadaway, William S., Jr., New Rochelle, N. Y. Electric stove or furnace. No. 1,406,851; Feb. 14.
- Hadaway, William S., Jr., New Rochelle, N. Y. Electric heater. No. 1,408,502; Mar. 7.
- Hadaway, William S., Jr., New Rochelle, N. Y. Electric furnace. No. 1,410,566; Mar. 28.
- Hadaway, William S., Jr., New Rochelle, N. Y. Electric heating apparatus. No. 1,415,550; May 9.
- Hadaway, William S., Jr., New Rochelle, N. Y. Electric heater element. No. 1,432,064; Oct. 17.
- Hadden, Gavin, New York, N. Y. Grandstand. No. 1,433,547; Oct. 31.
- Haddock, Arthur, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Measuring device. No. 1,426,861; Aug. 22.
- Haddon, Virgil M., Omaha, Nebr. Operating mechanism for dumping trucks. No. 1,411,346; Apr. 4.
- Haddon, Virgil M., Omaha, Nebr. Dumping truck. No. 1,411,347; Apr. 4.
- Haddon, Walter. (See Constantinesco, George, assignor.)
- Haden, Charles I. (See Haden, William N. and C. I.)
- Haden, William N. and C. I., Trowbridge, England. Heating and cooling of buildings. No. 1,406,852; Feb. 14.
- Hadfield-Penfield Steel Company. (See Penfield, Raymond C., assignor.)
- Hadfield, Robert A., Westminster, England. Manufacture of steel. No. 1,410,749; Mar. 28.
- Hadfield, Robert A., Westminster, England. Manufacture of steel. No. 1,435,294; Nov. 14.
- Hadfield, Robert A., Westminster, England. Manufacture of steel. No. 1,435,840; Nov. 14.
- Hadfield, Robert A., Westminster, A. G. M. Jack, and A. B. H. Clerke, Sheffield, England. Capped armor-piercing projectile. No. 1,407,532; Feb. 21.
- Hadik, Joseph C. (See Fritsche, J., and Hadik.)
- Hadjisky, Joseph N. (See Heideman, F. J., and Hadjisky.)
- Hadley, Walter C., assignor to Central Talking Machine Shop, Inc., New York, N. Y. Amusement device. No. 1,403,947; Jan. 17.
- Hadley, Walter C., assignor to Central Talking Machine Shop, Inc., New York, N. Y. Juvenile block. No. 1,403,948; Jan. 17.
- Hadley, Walter C., assignor to Central Talking Machine Shop, Inc., New York, N. Y. Toy. No. 1,403,949; Jan. 17.
- Hadley, Walter C., assignor to Central Talking Machine Shop, Inc., New York, N. Y. Amusement device. No. 1,403,950; Jan. 17.
- Hadley, Walter C., assignor to Central Talking Machine Shop, Inc., New York, N. Y. Amusement device. No. 1,403,951; Jan. 17.
- Hadley, Walter C., assignor to Central Talking Machine Shop, Inc., New York, N. Y. Toy. No. 1,431,890; Oct. 10.
- Hadley, Walter C., assignor to Central Talking Machine Shop, Inc., New York, N. Y. Amusement device. No. 1,431,891; Oct. 10.
- Hadley, Walter C., assignor to Central Talking Machine Shop, Inc., New York, N. Y. Amusement device. No. 1,431,892; Oct. 10.
- Hadsel, Alvah D., Iowa Hill, assignor of one-half to F. N. Woods, jr., San Francisco, Calif. Surveying instrument. No. 1,428,028; Sept. 5.
- Haerberlein, Max, Mountain Lakes, N. J. Check valve for dashpots and the like. No. 1,409,849; Mar. 14.
- Haerberlein, Max, Mountain Lakes, N. J. Automatic shut-down device for pressure governors. No. 1,411,348; Apr. 4.
- Haeg, Theodore, Rome, Italy. Production of fertilizers containing phosphoric acid and potassium. No. 1,411,696; Apr. 4.
- Haenicke, Arthur, Berlin-Tempelhof, assignor to C. W. Schulz, Berlin, Germany. Producing small form pieces, especially buttons, from calcined gypsum, cement, or the like. No. 1,427,103; Aug. 29.

Alphabetical list of patentees—Continued.

- Haentjens, Otto, assignor to Barrett, Haentjens & Company, Hazleton, Pa. Centrifugal pump. No. 1,408,291; Feb. 20.
- Haessler, Charles H., Philadelphia, Pa. Condiment dispenser or container. No. 1,423,322; July 18.
- Haessler, Charles. (See Giauque, J. H., and Haessler.)
- Haesloop, George C. (See Rundell, Raymond R., assignor.)
- Haessler, Hugo P., et al. (See Hornbostel, Adolph H. C., assignor.)
- Haessler, John F., et al. (See Hornbostel, Adolph H. C., assignor.)
- Haessly, Hilary L., and A. Posler, Theresa, Wis. Paint composition. No. 1,410,293; Mar. 21.
- Hafer, Edward C., assignor to J. A. Hafer, Chambersburg, Pa. Molding flask. No. 1,416,349; May 16.
- Hafer, George E., Milwaukee, Wis. Nose protector. No. 1,436,313; Nov. 21.
- Hafer, James A. (See Hafer, Edward C., assignor.)
- Haferkamp, Carl C., Oswego, N. Y., assignor to The Diamond Match Company, Chicago, Ill. Apparatus for the production of crystals. No. 1,430,900; Oct. 3.
- Hafertep, Theodore B., Chicago, Ill. Belt buckle. No. 1,427,591; Aug. 29.
- Hafertep, Edward B., Cincinnati, Ohio. Boot and shoe. No. 1,422,968; July 18.
- Haff, Robert C. (See Rhodes, E. O., and Haff.)
- Hafkesbrink, Heinrich, Berlin-Friedenau, Germany. Wing-pump. No. 1,404,116; Jan. 17.
- Hagan, Arthur, Philadelphia, Pa. Garbage can. No. 1,435,962; Nov. 21.
- Hagan, George J., Pittsburgh, Pa. Heating metal pot. No. 1,436,247; Nov. 21.
- Hagarty, William P. J., Avon, S. D. Cigarette case. No. 1,407,746; Feb. 28.
- Hagberg, Oscar W., and E. M. Linde, San Francisco, Calif. Window cooling and washing apparatus. No. 1,402,416; Jan. 3.
- Hage, Oscar R. (See Hage, Robert R., assignor.)
- Hage, Robert R., assignor of one-half to O. R. Hage, Minneapolis, Minn. Gate-actuating mechanism. No. 1,432,750; Oct. 24.
- Hagedorn, Ernst F. C., and H. P. Hansen, Helsingør, Denmark. Apparatus for blowing out soot in boiler tubes. No. 1,416,708; May 23.
- Hagemueller, Herbert E., Jersey City, N. J. Bench vise. No. 1,405,840; Feb. 7.
- Hagen, Joseph F., Chicago, Ill. Burner. No. 1,406,003; Feb. 7.
- Hagen, William F., Manitowoc, Wis. Spark-plug cleaner. No. 1,421,001; June 27.
- Hagen, William F., Manitowoc, Wis. Door-operating mechanism. No. 1,421,002; June 27.
- Hagerman, Donald E., Washington, N. J. Article carrier. No. 1,412,054; Apr. 11.
- Hagerty, Robert J., assignor of one-half to F. H. Hebron and one-half to T. C. Kelly, Philadelphia, Pa. Nursing bottle. No. 1,429,585; Sept. 19.
- Hagey, James C., assignor of one-half to The Cable Company, Chicago, Ill. Expression device for automatic musical instruments. No. 1,422,969; July 18.
- Hagey, James C., assignor to The Cable Company, Chicago, Ill. Expression device for musical instruments. No. 1,433,716; Oct. 31.
- Haggard, Chester, Indianapolis, Ind. Carbureter. No. 1,409,947; Mar. 21.
- Haggard, Herman. (See Haggard, John D. and H.)
- Haggard, Howard W. (See Henderson, Y., and Haggard.)
- Haggard, John D. and H. Ashland, Ky. Sign. No. 1,413,849; Apr. 25.
- Haggard, Osker C. (See Ward, Lloyd W., assignor.)
- Haggard & Marcusson Co. (See Anderson, William B., assignor.)
- Haggart, George S., et al. (See Kennedy, James W., assignor.)
- Haggenmiller, Carl, Munich, Germany. Tabulating mechanism. No. 1,432,689; Oct. 17.
- Haggett, Hiram R., Lynn, Mass. Skiing machine. No. 1,430,077; Sept. 26.
- Hagglund, William, Dassel, Minn. Brace for automobile running boards. No. 1,426,564; Aug. 22.
- Hagman, Frank E., New York, N. Y. Tire retainer. No. 1,434,742; Nov. 7.
- Hagstrom, Charles J., Warren, Pa. Liquid-testing device. No. 1,429,136; Sept. 12.
- Haglund, Gustaf, Christiania, Norway. Arrangement in electrolytic tanks with diaphragm cells. No. 1,426,071; Aug. 15.
- Hagopian, Ralph. (See Doyal, W. E., and Hagopian.)
- Hague, Alfred G., Des Moines, Iowa. Photographic device. No. 1,420,096; June 20.
- Hague, Alfred G., assignor to H. R. Straight, Adel, Iowa. Off-bearing mechanism for tile cutters. No. 1,411,492; Apr. 4.
- Hague, Charles, Hot Springs, Ark. Fence stretcher. No. 1,427,952; Sept. 5.
- Hague, Harold O., assignor to Robert E. Jordan, Chicago, Ill. Hog-dehairing machine. No. 1,438,438; Dec. 12.
- Hahl, Charles C., Fort Washington, and D. McHugh, Philadelphia, Pa. Car structure. No. 1,434,490; Nov. 7.
- Hahl, Hans. (See Weyland, H., Hahl, and Berendes.)
- Hahn, Eugene, Philadelphia, Pa. Ejector. No. 1,420,543; June 20.
- Hahn, Eugene, Philadelphia, Pa. Ash ejector. No. 1,420,544; June 20.
- Hahn, Frank R., Decatur, Ill. Mold. No. 1,436,033; Nov. 21.
- Hahn, Frank R., Decatur, assignor of fifty-nine and two-thirds per cent to W. P. Landon, Rochelle, Ill., and fifteen per cent to A. G. Clark, St. Paul, Minn. Building construction. No. 1,416,709; May 23.
- Hahn, Samuel O., Pueblo, Colo. Single-tube tire. No. 1,406,555; Feb. 14.
- Hahnemann, Edward, South Kaukauna, Wis. Rivet holder. No. 1,432,332; Oct. 17.
- Hahnemann, Paul R., assignor to The Pack, Stow & Wilcox Company, Southington, Conn. Metal-working machine. No. 1,406,004; Feb. 7.
- Haigh, Henry, Batley, England. Stop motion of looms for weaving. No. 1,425,252; Aug. 8.
- Haight, Walter L., Los Angeles, Calif. Self-cleaning spud. No. 1,403,026; Jan. 10.
- Hails, Edward T., Montgomery, Ala. Method and means for resurfacing talking-machine records. No. 1,405,208; Jan. 31.
- Haimowitz, Morris, Kansas City, Mo. Window frame for automobile tops. No. 1,412,282; Apr. 11.
- Hain, James C., Los Angeles, Calif. Building wall. No. 1,433,095; Oct. 25.
- Haines, Allen K., East St. Louis, Ill. Climeter. No. 1,405,841; Feb. 7.
- Haines, Charles B., Indianapolis, Ind. Water softener. No. 1,423,657; July 25.
- Haines, Elvans D., Washington, D. C. Handle construction for paper bags or the like. No. 1,410,404; Mar. 21.
- Haines, Frank H., and E. B. Parsons, Camden, N. J. Game. No. 1,425,087; Aug. 8.
- Haines, George D., assignor to Vaughan & Bushnell Manufacturing Company, Chicago, Ill. Tool-handle-holding means. No. 1,432,106; Oct. 17.
- Haines, Harry B. (See King, Joseph F., assignor.)
- Haines, Robert H. (See Pitts, W. C., and Haines.)
- Haines, Samuel R., et al. (See Malloy, James T., assignor.)
- Haines, Thomas H. (See Kasson, C. L., and Haines.)
- Hainline, Herbert M., Scioto, Ill. Combination lock. No. 1,420,483; June 20.
- Hainline, Theodore W., Portland, Oreg., assignor of one-half to R. S. Wittmeier, Denver, Colo. Gas engine. No. 1,417,730; May 30.
- Hainsey, Robert, Altoona, Pa. Railway switch. No. 1,408,503; Mar. 7.
- Hair, Carroll. (See Peterson, Valdimar M., assignor.)
- Haislip, Pliny L., Washington, D. C. Electric-lighting fixture. No. 1,424,095; July 25.
- Haist, Oscar W. (See Stott, F. R. L., and Shierk, assignors.)
- Hajek, Joseph, Follansbee, W. Va. Shoe. No. 1,417,517; May 30.
- Hajek, Otto, Vienna, Austria. Ratchet-wheel gear. No. 1,404,604; Jan. 24.
- Hake, Charles F., Jr., St. Bernard, assignor of one-half to The Heekin Can Company, Cincinnati, Ohio. Can. No. 1,432,181; Oct. 17.
- Hakkers, Floor J., Pella, Iowa. Auto chain lock. No. 1,434,115; Oct. 31.
- Hakonsen, Ole, Skudenés, Norway. Foghorn for motor crafts. No. 1,428,587; Sept. 12.
- Halagarda, Tomasz. (See Niewiarowski, P., and Halagarda.)
- Halagarda, Tomasz, Omaha, Nebr. Fire alarm. No. 1,435,894; Nov. 14.
- Halaska, Charles, Milwaukee, Wis. Basket. No. 1,423,419; July 18.
- Halbert, Robert F. (See Rannefeld, Otto, assignor.)
- Halbleib, Edward A., assignor to North East Electric Company, Rochester, N. Y. Lock washer. No. 1,427,807; Sept. 5.
- Halcomb, George E., Winthrop, Calif. deceased; R. L. Halcomb, executor. Bandage cutter. No. 1,407,151; Feb. 21.
- Halcomb, Robert L., executor. (See Halcomb, George E.)
- Halldinstein, George E. (See Lee, Frederick, assignor.)
- Halcy, Henri, assignor to Stark Tool Company, Waltham, Mass. Tool post. No. 1,409,099; Mar. 7.
- Hale, David H. (See Perry, L. T., and Hale.)
- Hale, Frank H., assignor of one-half to T. H. Schrider, Washington, D. C. Shield. No. 1,438,109; Dec. 5.
- Hale, Joshua B., Providence, R. I., assignor, by mesne assignments, to Textile Engineering Company. Braiding-machine carrier. No. 1,434,007; Oct. 31.
- Hale, Joshua B., Providence, R. I., assignor, by mesne assignments, to Textile Engineering Company. Braiding machine. No. 1,434,205; Oct. 31.
- Hale, Merle C., Jersey City, N. J., assignor to Lithoprint Company of New York, Inc., New York, N. Y. Lithoprinting table. No. 1,437,140; Nov. 28.
- Hale, Merle C., Jersey City, N. J., assignor to Lithoprint Company of New York, Inc., New York, N. Y. Duplicating apparatus. No. 1,437,141; Nov. 28.
- Hale, Methel F., Grover Hill, Ohio. Creeper bib. No. 1,424,013; July 25.
- Hale, Nathaniel H., Stone, Ky. Automatic car stop. No. 1,403,116; Jan. 10.
- Hale, Nathaniel H., Stone, Ky. Carbide-discharging means. No. 1,438,595; Dec. 12.

Alphabetical list of patentees—Continued.

- Hale, Noah, Chattanooga, assignor to H. Loeb and H. Hurst, Memphis, Tenn. Oil burner. No. 1,429,137; Sept. 12.
- Hale, William E., Detroit, Mich. Drag-line cableway excavator. No. 1,430,984; Oct. 3.
- Hale, William E., Fort Washington, assignor to R. H. Beaumont Company, Philadelphia, Pa. Apron-feed loader for skip hoists. No. 1,413,401; Apr. 18.
- Hale, William E., Fort Washington, assignor to R. H. Beaumont Company, Philadelphia, Pa. Bail for skip-hoist buckets. No. 1,430,985; Oct. 3.
- Hale, William E., Fort Washington, assignor to R. H. Beaumont Company, Philadelphia, Pa. Rope sheave structure. No. 1,431,788; Oct. 10.
- Hale, William E., Fort Washington, assignor to R. H. Beaumont Company, Philadelphia, Pa. Brake mechanism for winding drums. No. 1,433,371; Oct. 24.
- Hale, William E., Fort Washington, assignor to R. H. Beaumont Company, Philadelphia, Pa. Rope-sheave carrier. No. 1,437,301; Nov. 28.
- Hale, Willis W., Cleveland, Ohio. Electric heater. No. 1,418,917; June 6.
- Hales, Henry W., Ridgewood, N. J. Telescope. No. 1,427,592; Aug. 29.
- Halfpenny, William R., Juniata, Pa. Tire. No. 1,422,851; July 18.
- Halket, William, assignor to L. D. Van Valkenburg, Holyoke, Mass. Button-holding retainer. No. 1,412,938; Apr. 18.
- Hall, Addison G. (See Davis, F. P. C., and J. and A. G. Hall.)
- Hall, Akos J., Cleveland, Ohio. Stair landing or platform. No. 1,423,481; July 18.
- Hall, Allen, Pittsburgh, Pa. Mousetrap. No. 1,435,841; Nov. 14.
- Hall, Allen E., Philadelphia, Pa., assignor to Hall Syndicate Inc. Vehicle wheel. No. 1,432,690; Oct. 17.
- Hall, Andrew F., West Somerville, assignor to Pressure Proof Piston Ring Company, Boston, Mass. Piston packing. No. 1,418,913; June 6.
- Hall, Ariouse Z., and W. A. Hughes, Nashville, Tenn., assignors to Scott & Williams, Inc., New York, N. Y. Stop motion for circular-knitting machines. No. 1,434,950; Nov. 7.
- Hall, Arthur G., Sparta, Wis. Wall protector. No. 1,412,241; Apr. 11.
- Hall, Arthur J., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical system. No. 1,433,717; Oct. 31.
- Hall, Benjamin J., Eastcote, England. Photographic-printing or continuous-copying machine. No. 1,408,881; Mar. 7.
- Hall, Borchert Dress Form Company. (See McCarthy, James, assignor.)
- Hall, C. M., Lamp Company. (See Bell, William A., assignor.)
- Hall, C. M., Lamp Co. (See Platz, Henry T., assignor.)
- Hall, C. M., Lamp Company. (See Seitz, Ernest O., assignor.)
- Hall, C. M., Lamp Company. (See Watson, Harvey L., assignor.)
- Hall, Charles G., Akron, Ohio. Washing machine. No. 1,421,462; July 4.
- Hall, Charles H., Chicago, Ill. Heel. No. 1,415,442; May 9.
- Hall, Charles R., West Hazleton, assignor of one-half to G. Krick, Hazleton, Pa. Rail joint. No. 1,432,549; Oct. 17.
- Hall, Charles S., Los Angeles, Calif. Aircraft propeller. No. 1,420,313; June 20.
- Hall, Charles V., Washington, D. C. Tire patch. No. 1,433,006; Oct. 24.
- Hall, Charles W. (See Schofield, J. A., and Hall.)
- Hall, Charles W., Valparaiso, Ind. Combined blackboard and desk. No. 1,416,555; May 16.
- Hall, Charles W., Larchmont, N. Y. Aeroplane. No. 1,431,520; Oct. 10.
- Hall, Charles W., Larchmont, N. Y. Truss. No. 1,431,521; Oct. 10.
- Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. Recording stylus. No. 1,405,409; Feb. 7.
- Hall, Dean S., Marshfield, Vt. Comb frame for beehives. No. 1,423,212; July 18.
- Hall, Edwin O., Bangor, Me. Combined wall cabinet and dressing tray. No. 1,428,957; Sept. 12.
- Hall, Elmon L., assignor of one-half to H. Papst, Portland, Oreg. Gas making. No. 1,409,709; Mar. 14.
- Hall, Emma, et al. (See Henry, W., and Bassford, assignors.)
- Hall, Eric E., Chicago, Ill. Ceiling and floor construction. No. 1,417,056; May 23.
- Hall, Eric E., Chicago, Ill. Pipe-sleeve holder. No. 1,434,382; Nov. 7.
- Hall, Francis B., Bryn Mawr, Pa. Combination riding trousers and breeches. No. 1,405,114; Jan. 31.
- Hall, Francis C., Washington, D. C. Combination article of furniture. No. 1,416,018; May 16.
- Hall, Frank, Victoria, British Columbia, Canada. Music-leaf turner. No. 1,434,890; Nov. 7.
- Hall, Frank W., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Manufacture of aluminum chloride. No. 1,405,115; Jan. 31.
- Hall, Frank W., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Manufacture of aluminum chloride. No. 1,422,568; July 11.
- Hall, Fred D., assignor of one-half to Jacob Ledermann, Crandall, S. Dak. Draft attachment for tractors. No. 1,408,590; Mar. 7.
- Hall, Fred V., Homer, Ill. Safety control for tractors. No. 1,414,082; Apr. 25.
- Hall, Frederick C., assignor to Jenckes Spinning Company, Pawtucket, R. I. Loom for weaving cord-tire fabrics. No. 1,421,081; June 27.
- Hall, Furney C., Hartsfield, Ga. Cotton chopper. No. 1,422,051; July 4.
- Hall, George F., Providence, R. I. Cigarette box. No. 1,419,375; June 13.
- Hall, George F., assignor to R. J. Hines, Newark, N. J. Alarm whistle. No. 1,436,876; Nov. 28.
- Hall, George N., Council Bluffs, Iowa. Toy. No. 1,437,972; Dec. 5.
- Hall, George S., Chico, Calif. Radiator-testing apparatus. No. 1,432,065; Oct. 17.
- Hall, Harry A., assignor to Hoosier Manufacturing Company, Newcastle, Ind. Molding-board stabilizer. No. 1,408,938; Mar. 7.
- Hall, Horace C., assignor to Rolls-Royce Limited, Derby, England. Aluminum alloy. No. 1,418,303; June 6.
- Hall, James E. (See Templin, John W., assignor.)
- Hall, James G., Burlingame, Calif. Book. No. 1,426,291; Aug. 15.
- Hall, John. (See Davis, F. P. C., and J. and A. G. Hall.)
- Hall, John A., Union, assignor of one-half to H. A. Townsend, Milton Mills, N. H. Dustpan. No. 1,424,761; Aug. 8.
- Hall, John G., Toronto, Ontario, Canada. Milk bottle. No. 1,423,560; July 25.
- Hall, John H., and R. D. Jordan, assignors to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Melting ferromanganese. No. 1,421,213; June 27.
- Hall, John W., assignor of one-half to M. V. Ausherman, Springfield, Mo. Game. No. 1,407,027; Feb. 21.
- Hall, Joseph, Stockport, England. Self-starting injector for steam boilers. No. 1,422,199; July 11.
- Hall, Leon A., Keene, N. H. Medical appliance. No. 1,417,318; May 23.
- Hall, Lewis S., et al. (See Meeder, Herbert L., assignor.)
- Hall, Nathaniel C., Old Lyme, Conn. Strawberry huller. No. 1,416,818; May 23.
- Hall, Orrin B., Oatville, Kans. Grain carrier. No. 1,423,609; July 25.
- Hall, Peter, Pasadena, Calif. Candy box. No. 1,416,019; May 16.
- Hall, Peter P-G., Philadelphia, Pa. Milling cutter. No. 1,415,339; May 9.
- Hall Printing Press Company, et al. (See White, Joseph, assignor.)
- Hall, Robert F., Moseley, near Birmingham, England. Machine for the manufacture of glass articles. No. 1,408,939; Mar. 7.
- Hall, Robert F., Moseley, Birmingham, England. Weighing apparatus. No. 1,414,083; Apr. 25.
- Hall, Roy L., Portageville, Mo. Hinge. No. 1,418,919; June 6.
- Hall, Samuel N. (See Layne, Mahlon E., assignor.)
- Hall, Samuel N., Los Angeles, Calif. Thrust bearing. No. 1,421,082; June 27.
- Hall, Samuel N., Los Angeles, Calif. Thrust bearing. No. 1,424,640; Aug. 1.
- Hall, Samuel N., assignor to M. E. Layne, Los Angeles, Calif. Well mechanism. No. 1,415,551; May 9.
- Hall-Scott Motor Car Company. (See Vosbrink, Richard, assignor.)
- Hall, Selden H., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Centrifugal separator. No. 1,411,782; Apr. 4.
- Hall, Selden H., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Vacuum-regulating apparatus. No. 1,420,035; June 20.
- Hall, Selden H., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Centrifugal machine. No. 1,422,852; July 18.
- Hall Switch & Signal Co. (See Blake, Eli J., assignor.)
- Hall Switch & Signal Co. (See Field, Oscar S., assignor.)
- Hall Syndicate Inc. (See Hall, Allen E., assignor.)
- Hall, Thomas, Ridgway, Pa. Governor. No. 1,438,824; Dec. 12.
- Hall, Thrasher, Detroit, Mich. Garment support. No. 1,427,104; Aug. 29.
- Hall Tobacco Chemical Company. (See Schulz, Henry L., assignor.)
- Hall, Willard C., Butte, Mont. Process and apparatus for concentration and separation of diamagnetic minerals. No. 1,416,634; May 16.
- Hall, William A., and O. Robinson, Augusta, Kans.; said Robinson assignor to said Hall. Display cabinet. No. 1,419,846; June 13.
- Hall, William C., et al. (See Scott, Philip N., assignor.)
- Hall, William G., Honolulu, Hawaii. Revolving cane knives. No. 1,401,978; Jan. 3.
- Hall, William G., California, Pa. Vehicle for paint pigments and making the same. No. 1,439,887; Dec. 26.
- Hall, William L. (See Smith, Louis, assignor.) (Re-issue.)
- Hall, William T. (See Davis, Daniel W., assignor.)

Alphabetical list of patentees—Continued.

- Hall, William T., Winnipeg, Manitoba, Canada. Automobile lock. No. 1,428,089; Sept. 5.
- Hall, Zachariah A., Hespeler, Ontario, Canada. Hockey stick. No. 1,438,080; Dec. 5.
- Halladay, Lewis P., Decatur, Ill. Bumper bar. No. 1,408,193; Feb. 28.
- Halladay, Lewis P., Decatur, Ill. Bumper-bar support. No. 1,431,653; Oct. 10.
- Hallam-Rice Co. (See Sawyer, Asa L., assignor.)
- Hallander, Samuel, Vancouver, British Columbia, Canada. Vertical boiler. No. 1,406,729; Feb. 14.
- Hallauer, Carl H., Los Angeles, Calif. Intake manifold for internal-combustion engines. No. 1,420,922; June 27.
- Halle, Hiram J., Cleveland, Ohio, assignor, by mesne assignments, to Elliott-Fisher Co. Calculating attachment for typewriting machines. No. 1,405,209; Jan. 31.
- Halle, Simon, Arlington, Md., assignor to Edison Electric Appliance Company, Inc. Electric heating device. No. 1,412,735; Apr. 11.
- Halluck, Frank A., Oak Park, Ill., assignor to Sullivan Machinery Company. Forging machine. No. 1,405,116; Jan. 31.
- Halluck, Frank A., Oak Park, Ill., assignor to Sullivan Machinery Company. Forging machine. No. 1,416,635; May 16.
- Haller, Albin, Paris, France, assignor to Societe Fabriques de Produits Chimiques de Thann et de Mulhouse, Mulhouse, Alsace, France. Manufacture of borneol. No. 1,415,340; May 9.
- Haller, Albin, Paris, assignor to Fabriques de Produits Chimiques de Thann et de Mulhouse, Thann (Haut-Rhin), France. Manufacturing borneol. No. 1,429,342; Sept. 19.
- Haller, John G., and H. C. Nicholas, Detroit, Mich. Windshield cleaner. No. 1,439,308; Dec. 19.
- Haller, John G., and H. C. Nicholas, Detroit, Mich. Windshield-cleaning device. No. 1,439,309; Dec. 19.
- Haller, Joseph F., assignor to McKenna Brass & Manufacturing Company, Inc., Pittsburgh, Pa. Air-vent cleaner for filling machines. No. 1,425,960; Aug. 15.
- Hallett, Fred N., Seattle, Wash., assignor to The Construction Appliance Co. Bolting-up device. No. 1,420,424; June 20.
- Hallett, George E. A., Dayton, Ohio. Method and apparatus for heating the explosive mixture of an internal-combustion engine. No. 1,432,751; Oct. 24.
- Halley, John R., Nashville, Iowa. Coin and stamp box. No. 1,430,307; Sept. 26.
- Halliday, George, Tacoma, assignor of one-half to J. E. Case, Seattle, Wash. Dust collector. No. 1,439,412; Dec. 19.
- Halliday, John. (See Vineberg, J. H., Halliday, and Presner.)
- Halliwell, Reginald F., Rugby, England, assignor to General Electric Company. Valve-operating mechanism. No. 1,410,294; Mar. 21.
- Hallman, James F., Oilton, Okla. Standing-valve collar. No. 1,430,986; Oct. 3.
- Hallmark, Elmer C., Mission, Tex., assignor to G. M. Swift, Okmulgee, Okla. Increasing the quality and volume of oil in wells and removing the oil therefrom. No. 1,415,552; May 9.
- Hall-Neal Furnace Company. (See Neal, Harry W., assignor.)
- Hallock, Edward F., assignor of one-half to J. A. Michel, Brooklyn, N. Y. Sales package. No. 1,409,544; Mar. 14.
- Hallock, Fletcher D., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,431,948; Oct. 17.
- Halloran, John J., New York, N. Y. Curting block for turning machines. No. 1,407,268; Feb. 21.
- Halloran, John J., Daly City, Calif. Pneumatic cushion. No. 1,409,374; Mar. 14.
- Hallowell, Andrew H. (See Clay, W. L., and Hallowell.)
- Hallverson, Peter W., Black Diamond, Alberta, Canada. Pocketknife. No. 1,407,652; Feb. 21.
- Halpern, Irving J. (See Goldberg, S., and Solberg, assignors.)
- Halpern, Oscar L., assignor to Danda-Halpern Co., Inc., New York, N. Y. Method of and apparatus for beading cloth. No. 1,433,203; Oct. 24.
- Halseeth, Edwin A., et al. (See Boe, Edd, assignor.)
- Halseith, Edwin A., assignor of one-fourth to E. Boe, Clearbrook, and one-fourth to O. L. Halseith, Bagley, Minn. Sleigh. No. 1,405,779; Feb. 7.
- Halseith, Otto L., et al. (See Halseith, Edwin A., assignor.)
- Halsey, Charles W., Evansville, Ind. Scoop ice chipper. No. 1,435,061; Nov. 7.
- Halsey, William S., Dover, N. J. Roller bearing. No. 1,418,304; June 6.
- Halstead, John C., et al. (See Burkart, Frances, assignor.)
- Halstead, Oscar H., Manhattan, Kans. Adding machine. No. 1,437,238; Nov. 28.
- Halsten, Charles A., Billings, Mont., assignor to C. J. Vollmer, Butler, Pa. Automobile radiator. No. 1,432,850; Oct. 24.
- Haltenberger, Jules, Indianapolis, Ind. Engine. No. 1,409,710; Mar. 14.
- Halter, Emil S., Paterson, N. J. Dyeing machine. No. 1,417,825; May 30.
- Halton, Stephen M., Dublin, Ireland. Internal-combustion engine. No. 1,404,366; Jan. 24.
- Halvorsen, Hans N., Vineland, N. J., assignor to Kimble Glass Company, Chicago, Ill. Screw-neck-forming machine. No. 1,437,239; Nov. 28.
- Halvorsen, Clarence. (See Osnes, J., Halvorsen, and Foley.)
- Halvorsen, Louis C., Winslow, Wash. Mortising machinery. No. 1,403,241; Jan. 10.
- Halvorsen, Birger P., assignor to Norsk Hydro-Elektrisk Kvaestofaktiskeskab, Christiania, Norway. Ammonium-nitrate fertilizer. No. 1,406,455; Feb. 14.
- Halvorsen, Halbert B., Chicago, Ill., assignor to Sullivan Machinery Company. Lubricating mechanism. No. 1,417,057; May 23.
- Halvorsen, Halbert B., Chicago, Ill., assignor to Sullivan Machinery Company. Lubricating mechanism for compressors. No. 1,417,058; May 23.
- Halvorsen, Halbert B., Chicago, Ill., assignor to Sullivan Machinery Company. Fluid-operated pumping system. No. 1,426,862; Aug. 22.
- Halvorsen, Halbert B., Chicago, Ill., assignor to Sullivan Machinery Company. Air-lift pumping mechanism. No. 1,426,863; Aug. 22.
- Halvorsen, Halbert B., Chicago, Ill., assignor to Sullivan Machinery Company. Drill. No. 1,440,075; Dec. 26.
- Halvorsen, Ole G., assignor to Winslow Boiler & Engineering Company, Chicago, Ill. Oiling device. No. 1,403,684; Jan. 17.
- Halvorson, Cromwell A. B., Jr., Lynn, Mass. Headlight reflector. No. 1,405,410; Feb. 7.
- Halvorson, Cromwell A. B., Jr., Lynn, Mass., assignor to General Electric Company. Anode for luminous arc lamps. No. 1,422,439; July 11.
- Halvorson, Cromwell A. B., Jr., Saugus, Mass., assignor of one-half to C. H. Wills, Detroit, Mich. Illuminating device. No. 1,436,655; Nov. 28.
- Ham Boiler Corp. (See Adelmann, Hans, assignor.)
- Hamacek, Adolph F., Chicago, Ill. Ship. No. 1,405,684; Feb. 7.
- Hamacek, Frank, Kewaunee, Wis. Screen drum for viners. No. 1,405,914; Feb. 7.
- Hamacek, Frank, Kewaunee, Wis. Green-pea viner. No. 1,421,772; July 4.
- Hamacek, Frank, Kewaunee, Wis. Drive for green-pea viners. No. 1,430,736; Oct. 3.
- Haman, Albert L., St. Paul, Minn. Watchcase. No. 1,427,808; Sept. 5.
- Hamann, Friedrich W. H., Hamburg, Germany. Car coupling. No. 1,423,796; July 25.
- Hamberg, John A., Springfield, Mass. Traffic signal. No. 1,430,901; Oct. 3.
- Hamblen, Joseph G., Jr., et al. (See Gore, William M., assignor.)
- Hambrock, Carl W., Fort Wayne, Ind. Lamp bracket for bicycles. No. 1,427,532; Aug. 29.
- Hambuechen, Carl, New York, N. Y., assignor to Union Carbide & Carbon Research Laboratories, Inc. Dry cell and assembling the same. No. 1,438,110; Dec. 5.
- Hamburger, David E., Mount Vernon, N. Y. Illusionary box. No. 1,430,643; Oct. 3.
- Hamel, Charles W., St. Louis, Mo. Game apparatus. No. 1,411,723; Apr. 4.
- Hamel Shoe Machinery Company. (See Adams, Charles F., assignor.)
- Hamel Shoe Machinery Company. (See Hart, Thomas F., assignor.)
- Hamel Shoe Machinery Company. (See Laliberti, Narcisse E., assignor.)
- Hamel Shoe Machinery Company. (See Pettengill, George M., assignor.)
- Hamel Shoe Machinery Company. (See Reardon, Fred A., assignor.)
- Hamel Shoe Machinery Company. (See Valois, Félix E., assignor.)
- Hamel, W. V. (See Rogers, Louis, assignor.)
- Hamer, Ernest J., Los Angeles, Calif. Sanitary paper wrapper for ice-cream cones. No. 1,403,771; Jan. 17.
- Hamer, Ernest J., Los Angeles, Calif. Movable price-card holder. No. 1,409,100; Mar. 7.
- Hamer, Herman P., Spring Valley, Ill. Tractor steering and controlling device. No. 1,402,600; Jan. 3.
- Hamer, John T. (See Howard, Eldon C., assignor.)
- Hamilton, Alexander C., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Cushioned gear. No. 1,422,440; July 11.
- Hamilton, Alexander M., Toronto, Ontario, Canada. Transmission-lever-locking device. No. 1,421,463; July 4.
- Hamilton, Alfred E. (See Estep, W. G., Hamilton, and Simonson.)
- Hamilton, Anias F., Streator, Ill. Brick. No. 1,434,612; Nov. 7.
- Hamilton, Asbury, Brooklyn, N. Y. Display rack. No. 1,418,563; June 6.
- Hamilton, Bernice E., Indianapolis, Ind. Metal fire block. No. 1,412,736; Apr. 11.
- Hamilton Cassard & Co. (See Stenger, J. B., McCaffray, and Oyler, assignors.)
- Hamilton, Charles L., Philadelphia, Pa. Machine for pressing fibers of wood pulp. No. 1,419,847; June 13.

Alphabetical list of patentees—Continued.

- Hamilton, Charles R., Britton, Okla. Mayonnaise-mixing device. No. 1,408,591; Mar. 7.
- Hamilton, Christopher H., South Devon, England. Pneumatic tire. No. 1,419,045; June 6.
- Hamilton, Clarence F., assignor of one-half to C. W. Gipson, Peru, Ind. Lawn rake. No. 1,430,227; Sept. 26.
- Hamilton, Clifford C. (See Imhoff, F. N., Hutchinson, and Hamilton.)
- Hamilton, Edward H., Midvale, Utah, assignor to United States Smelting Refining & Mining Company. Reducing lead ores. No. 1,404,714; Jan. 24.
- Hamilton, Francis B., New York, N. Y. Certificate. No. 1,429,423; Sept. 19.
- Hamilton, George M., Oakmont, Pa. Fuel-control mechanism for internal-combustion engines. No. 1,410,093; Mar. 21.
- Hamilton, George W., assignor of one-half to L. W. Popp, Chicago, Ill. Heat-responsive current-controlling device. No. 1,402,417; Jan. 3.
- Hamilton, Harry B., New York, N. Y. Ankle supporter. (Reissue.) No. 15,446; Sept. 5.
- Hamilton, James G., New York, N. Y. Shoe-polishing machine. No. 1,404,759; Jan. 31.
- Hamilton, Joe M., Mount Holly, N. C. Valve-grinding device. No. 1,414,983; May 2.
- Hamilton, John. (See Paine, H. S., and Hamilton.)
- Hamilton, John R., Yonkers, assignor to Sypho-Chemical Sprinkler Corporation, New York, N. Y. Automatic pumping sprinkler system. No. 1,405,411; Feb. 7.
- Hamilton, Karl M., Chicago, Ill., assignor to Chicago-Cleveland Car Roofing Co., Chicago, Ill. Reinforced car end. No. 1,411,349; Apr. 4.
- Hamilton Manufacturing Company, The. (See Geimer, Anthony P., assignor.)
- Hamilton, Morgan S., and C. P. Brady, Georgetown, Tex. Railway crossing signal. No. 1,432,598; Oct. 17.
- Hamilton, Samuel, Barrington, Nova Scotia, Canada. Selective-circuit push-button switch. No. 1,437,891; Dec. 5.
- Hamilton, Samuel H., Philadelphia, Pa. Fire-extinguishing liquid and using same. No. 1,431,789; Oct. 10.
- Hamilton, Thomas F., Milwaukee, Wis. Sheathing for aeroplane propellers. No. 1,404,849; Jan. 31.
- Hamilton, Thomas G., Gary, Ind. Railway tie. No. 1,434,206; Oct. 31.
- Hamilton, Walter B., Lancaster, and T. A. Evans, Manchester, England. Reducing metals and making alloys. No. 1,432,289; Oct. 17.
- Hamilton, William L., Bangor, Mich. Automatic pressure-operated switch. No. 1,421,940; July 4.
- Hamister, Victor C., Cleveland, Ohio, assignor to National Carbon Company, Inc. Electroplating carbon articles. No. 1,403,903; Jan. 17.
- Hamister, Victor C., Cleveland, Ohio., assignor to National Carbon Company, Inc. Cable connection for brushes. No. 1,412,079; Apr. 11.
- Hamler Boiler and Tank Company. (See Hamler, Jerome P., assignor.)
- Hamler Boiler and Tank Company. (See Hamler, Peter J., assignor.)
- Hamler, Jerome P., assignee. (See Hamler, Peter J.) (Reissue.)
- Hamler, Jerome P., assignor to Hamler Boiler and Tank Company, Chicago, Ill. Fertilizer making. No. 1,437,973; Dec. 5.
- Hamler, Peter J., deceased, Chicago, Ill., by J. P. Hamler, assignee, Chicago, Ill. Fertilizer drier. (Reissue.) No. 15,362; May 23.
- Hamler, Peter J., deceased, by G. W. Childs, administrator, assignor to Hamler Boiler and Tank Company, Chicago, Ill. Agitator drier. No. 1,434,613; Nov. 7.
- Hamlett, Robert F. T. (See Sumpter, Fred S., assignor.)
- Hamlin, Ben M., assignor to N. Diamond, Chicago, Ill. Wardrobe trunk. No. 1,418,564; June 6.
- Hamlin, Ben M., assignor to J. V. Meyerling Trunk Company, Chicago, Ill. Wardrobe trunk. No. 1,432,851; Oct. 24.
- Hamlin Hygrostat Corporation. (See Hamlin, John A., assignor.)
- Hamlin, John A., assignor to Hamlin Hygrostat Corporation, New York, N. Y. Moisture-absorbing device. No. 1,425,197; Aug. 8.
- Hamlin, John G., Tallahassee, Fla. Combined bearing shim and wear-compensating washer. No. 1,418,920; June 6.
- Hamlin, Joseph H., Winston-Salem, N. C. Boring machine. No. 1,434,891; Nov. 7.
- Hamlin, Louis R., assignor to The Globe Stove & Range Company, Kokomo, Ind. Electric heating unit or hot plate. No. 1,436,034; Nov. 21.
- Hamlin, Louis R., and J. Jackson, assignors to The Globe Stove & Range Co., Kokomo, Ind. Electric sadiron. No. 1,436,035; Nov. 21.
- Hamliuk, Lazenby C. (See Kersting, Albert F., assignor.)
- Hamm, Milton I., Joplin, Mo. Collapsible container. No. 1,409,101; Mar. 7.
- Hamm, William S., Hubbard Woods, Ill., assignor to The Adams & Westlake Company. Lantern. No. 1,415,634; May 9.
- Hamm, William S., Hubbard Woods, Ill., assignor to The Adams & Westlake Company. Lantern. No. 1,415,635; May 9.
- Hamm, William S., Hubbard Woods, and F. A. Schuetz, Chicago, Ill., assignors to The Adams & Westlake Company. Lantern. No. 1,415,633; May 9.
- Hammann, William, Milwaukee, Wis. Door fastener. No. 1,438,233; Dec. 12.
- Hammar, Fritiof C., Gottenborg, Sweden. Protecting device for the edge of butchers' knives. No. 1,426,184; Aug. 15.
- Hammel, Esther S. (See Hammel, Walter F., assignor.)
- Hammel, George E. (See Voltz, Daniel W. and E. C., and Hammel.)
- Hammel, Walter F., assignor to E. S. Hammel, Chicago, Ill. Safety envelope. No. 1,406,456; Feb. 14.
- Hammen, John J., Spencer, Iowa. Trenching machine. No. 1,411,018; Mar. 28.
- Hammer, Charles, Queens, assignor to American Metal Cap Company, Brooklyn, N. Y. Friction closure for containers. (Reissue.) No. 15,259; Jan. 3.
- Hammer, Edwin B. (See Knott, H. H., Hammer, and Jungbluth.)
- Hammer, Ferdinand M., Buffalo, N. Y. Milk-bottle cap. No. 1,431,790; Oct. 10.
- Hammer, Howard G., trustee. (See Giddings, Charles E., jr., assignor.)
- Hammerberg, Erick O., Chicago, Ill. Garter. No. 1,417,244; May 23.
- Hammerl, Jacob, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. No. 1,431,458; Oct. 10.
- Hammerschmidt, Albert E. (See Darling, Loren W., assignor.)
- Hammes, John W., Racine, Wis. Floating weather strip. No. 1,422,569; July 11.
- Hammett, Elbert A., Kansas City, Mo. Compression-testing device. No. 1,403,685; Jan. 17.
- Hammett, Ralph W. (See Kisor, L. and Hammett.)
- Hammond, Charles. (See Seiler, William, assignor.)
- Hammond, Charles H., Wilmington, Del. Puzzle. No. 1,410,295; Mar. 21.
- Hammond, Elmer C., and C. F. Nelson, Knoxville, Tenn. Tractor. No. 1,403,407; Jan. 10.
- Hammond, Grant, New Haven, Conn., assignor of one-third to A. C. Washburne, Pittsfield, and one-third to F. G. Crane, Dalton, Mass. Magazine catch and release. No. 1,405,685; Feb. 7.
- Hammond, Grant, New Haven, Conn., assignor to one-third to A. C. Washburne, Pittsfield, and one-third to F. G. Crane, Dalton, Mass. Firing mechanism for firearms. No. 1,410,248; Mar. 21.
- Hammond, Grant, New Haven, Conn., assignor of one-third to A. C. Washburne, Pittsfield, and one-third to F. G. Crane, Dalton, Mass. Firearm. No. 1,432,182; Oct. 17.
- Hammond, Harry D., J. W. Achelpohl, and A. Leslie, Argonia, Kans. Collapsible crate. No. 1,425,587; Aug. 15.
- Hammond, Harry F., South Shaftsbury, assignor of one-half to J. A. Davis, Dover, Vt. Soldering iron. No. 1,422,357; July 11.
- Hammond, Isabel, May, Idaho. Collapsible bucket. No. 1,436,499; Nov. 21.
- Hammond, John H., jr. (See Buswell, Henry L. F., assignor.)
- Hammond, John H., jr. (See Trenor, Albert D., assignor.)
- Hammond, John H., Jr., Gloucester, Mass. Torpedo supporting and launching mechanism for aircraft. No. 1,403,159; Jan. 10.
- Hammond, John H., Jr., Gloucester, Mass. Floating mine and controlling same. No. 1,407,653; Feb. 21.
- Hammond, John H., Jr., Gloucester, Mass. System for control of bodies by radiant energy. No. 1,418,788; June 6.
- Hammond, John H., Jr., Gloucester, Mass. System for control of bodies by radiant energy. No. 1,418,789; June 6.
- Hammond, John H., Jr., Gloucester, Mass. Radiodynamic control of gyroscopes. No. 1,418,790; June 6.
- Hammond, John H., Jr., Gloucester, Mass. System for control of moving bodies by radiant energy. No. 1,418,791; June 6.
- Hammond, John H., Jr., Gloucester, Mass. System for control of moving bodies by radiant energy. No. 1,418,792; June 6.
- Hammond, John H., Jr., Gloucester, Mass. System of teledynamic control for dirigible bodies. No. 1,418,793; June 6.
- Hammond, John H., Jr., Gloucester, Mass. System of teledynamic control. No. 1,418,794; June 6.
- Hammond, John H., Jr., Gloucester, Mass. Launching mechanism for torpedoes. No. 1,418,795; June 6.
- Hammond, John H., Jr., Gloucester, Mass. Teledynamic control. No. 1,418,796; June 6.
- Hammond, John H., Jr., Gloucester, Mass. System of submarine-mine laying. No. 1,418,797; June 6.
- Hammond, John H., Jr., Gloucester, Mass. Teledynamic control. No. 1,418,869; June 6.
- Hammond, John H., Jr., Gloucester, Mass. Radiodynamic torch-launching mechanism. No. 1,418,870; June 6.
- Hammond, John H., Jr., Gloucester, Mass. Electric-light display system. No. 1,419,256; June 13.
- Hammond, John H., Jr., Gloucester, Mass. Wireless control apparatus. No. 1,419,376; June 13.
- Hammond, John H., Jr., Gloucester, Mass. Radiodynamic occulting system. No. 1,419,377; June 13.
- Hammond, John H., Jr., Gloucester, Mass. Electric-wave transmission. No. 1,420,254; June 20.

Alphabetical list of patentees—Continued.

- Hammond, John H., Jr., Gloucester, Mass. Antenna for radiotransmission systems. No. 1,420,255; June 20.
- Hammond, John H., Jr., Gloucester, Mass. System of teledynamic control. No. 1,420,256; June 20.
- Hammond, John H., Jr., Gloucester, Mass. System and apparatus for automatic wave selection. No. 1,420,257; June 20.
- Hammond, John H., Jr., Gloucester, Mass. System for the radiotransmission of moving bodies. No. 1,420,258; June 20.
- Hammond, John H., Jr., Gloucester, Mass. Teledynamic orientation system. No. 1,420,629; June 27.
- Hammond, John H., Jr., Gloucester, Mass. Marine trailer for radiant-energy-receiving systems. No. 1,424,641; Aug. 1.
- Hammond, John H., Jr., Gloucester, Mass. System for sound transmission. No. 1,425,522; Aug. 15.
- Hammond, John H., Jr., Gloucester, Mass. Transmission system for radiant energy. No. 1,425,523; Aug. 15.
- Hammond, John H., Jr., Gloucester, Mass. Smoke-screen producer. No. 1,429,238; Sept. 19.
- Hammond, John H., Jr., Gloucester, Mass. Light-signal system. No. 1,430,902; Oct. 3.
- Hammond, John H., Jr., Gloucester, Mass. Apparatus for controlling torpedo firing. No. 1,431,140; Oct. 3.
- Hammond, John H., Jr., Gloucester, Mass. System and apparatus for controlling torpedo firing. No. 1,431,141; Oct. 3.
- Hammond, John H., Jr., Gloucester, Mass. Apparatus for controlling torpedo firing. No. 1,431,142; Oct. 3.
- Hammond, John H., Jr., Gloucester, Mass. Apparatus for predicting and launching torpedoes. No. 1,431,143; Oct. 3.
- Hammond, John H., Jr., Gloucester, Mass. Incendiary shell. No. 1,435,228; Nov. 14.
- Hammond, John H., Jr., Gloucester, Mass. Incendiary bomb. No. 1,436,248; Nov. 21.
- Hammond, John H., Jr., Gloucester, Mass. Receiving system for radiant energy. No. 1,439,363; Dec. 19.
- Hammond, John H., Jr., and H. L. F. Buswell, Gloucester, Mass.; said Buswell assignor to said Hammond. Range finder. No. 1,408,504; Mar. 7.
- Hammond, John H., Jr., Gloucester, Mass., and A. D. Trenor, New York, N. Y.; said Trenor assignor to said Hammond. System of salvo firing for torpedoes. No. 1,430,644; Oct. 3.
- Hammond, Laurens, et al., trustees. (See Hammond, Laurens, assignor.)
- Hammond, Laurens, New York, N. Y., assignor to D. D. Douglas, J. J. O'Connor, and L. Hammond, trustees, Detroit, Mich. Clock. (Reissue.) No. 15,299; Mar. 7.
- Hammond, Laurens, Detroit, Mich., assignor to The Televue Corporation, Chicago, Ill. Stereoscopic motion picture. No. 1,435,520; Nov. 14.
- Hammond, Levi G., Columbus, Ohio. Hot-water bottle. No. 1,437,652; Dec. 5.
- Hammond, Myron B., and H. H. Taylor, assignors to The Thomas P. Taylor Co., Bridgeport, Conn. Man's garter. No. 1,419,924; June 20.
- Hammond, Oliver S., Guelph, Ontario, Canada. Vibrator for rapping patterns in molding. No. 1,428,630; Sept. 12.
- Hammond Typewriter Company, The. (See Noack, Carl O., assignor.)
- Hammond, William P. (See Sweetland, Ernest J., assignor.)
- Hammond, William P., New York, N. Y. Means for reflecting and observing traffic conditions for automobiles. No. 1,437,974; Dec. 5.
- Hammond, William P., Passaic, N. J., assignor to A. Schrader's Son, Incorporated, New York, N. Y. Pressure gauge. No. 1,437,516; Dec. 5.
- Hammontré, John H., Los Angeles, Calif. Derailer. No. 1,423,495; July 18.
- Hamnett, Granville S., assignor to The Weld Tire and Rubber Company, Greeley, Colo. Blow-out patch. No. 1,435,466; Nov. 14.
- Hampel, Karl, Detroit, Mich. Detonating device. No. 1,425,198; Aug. 8.
- Hampson, John, London, England. Game apparatus. No. 1,428,482; Sept. 5.
- Hampton, Arlie, Hanson, Ky. Gate. No. 1,411,697; Apr. 4.
- Hampton, Leon N., assignor to Western Electric Company, Incorporated, New York, N. Y. Reeling device. No. 1,418,706; June 6.
- Hampton, Simie, Threelinks, Ky. Automatic trap. No. 1,432,550; Oct. 17.
- Hampton, William M., Whitewater, Mo. Extension drive for tractors. No. 1,411,916; Apr. 4.
- Hamshaw, Clarence M., Chehalis, Wash. Shears for rotary soil cultivators. No. 1,402,858; Jan. 10.
- Hanaford, Roy F., Brooklyn, N. Y. Golf bag. No. 1,414,875; May 2.
- Hance, Anselm B., New York, N. Y. Combination tool. No. 1,416,461; May 16.
- Hance, Willard A., assignor to Stover Manufacturing & Engine Co., Freeport, Ill. Stovepipe damper. No. 1,439,813; Dec. 26.
- Hancock Brothers. (See Fisk, Carroll E., assignor.)
- Hancock, Edmund W., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,439,735; Dec. 26.
- Hancock, John, et al. (See Lemons, Joseph F., assignor.)
- Hancock, Leslie J. (See Hancock, Thomas R. and L. J.)
- Hancock, Thomas R. and L. J., London, England. Cutting tool. No. 1,438,375; Dec. 12.
- Hancock, William E., Tulsa, Okla. Oil-well attachment. No. 1,412,863; Apr. 18.
- Hancock, William L., assignor to The Murray Company, Dallas, Tex. Cotton chute. No. 1,436,091; Nov. 21.
- Hancock, William M. (See Kendall, Clarence, W. E. and O. M., and Hancock.)
- Hand, Jay A. (See Kuhn, F., and Hand.)
- Hand, Louis H. B., Harvey, Ill. Spring guard for vehicles. No. 1,424,014; July 25.
- Handel, Emilie B., Baltimore, Md. Convertible bed. No. 1,429,239; Sept. 19.
- Handel Maatchappij H. Albert de Bary & Co. (See Hildebrand, Wilhelm, assignor.)
- Handelan, Daniel, Aberdeen, S. D. Air filter for hot-air furnaces. No. 1,402,601; Jan. 3.
- Handen, James, Covington, Ky. Rail-holding plate. No. 1,419,046; June 6.
- Handford, Arthur W., Evanston, assignor, by mesne assignments, to American Seamless Container Company, St. Charles, Ill. Forming fibrous pulp pails, receptacles, and other articles. No. 1,407,409; Feb. 21.
- Handlan, Alexander H., jr., St. Louis, Mo. Hose coupling. No. 1,427,105; Aug. 29.
- Handlan-Buck Manufacturing Company. (See Kuehner, Louis C., assignor.)
- Handlan-Buck Manufacturing Company. (See Rolfe, George H., assignor.)
- Handler, Sigmond, New York, N. Y. Adjustable seat. No. 1,434,777; Nov. 7.
- Handley, George, Palmers Green, assignor of one-half to P. W. Bullock, London, England. Rotary pump with ejector. No. 1,418,921; June 6.
- Handley, George F. (See Hess, E. B., and Handley.)
- Handley Page Limited. (See Page, Frederick H., assignor.)
- Handy, Herbert A., Tulsa, Okla. Pump. No. 1,426,864; Aug. 22.
- Handy, Lucius, Woodlynn, N. J. Grip hook. No. 1,417,378; May 23.
- Hanel, Ora C. (See Fairbanks, A. B., and Hanel.)
- Haner, Carl, Jr., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Obtaining potash from distillery waste by burning the same. No. 1,403,160; Jan. 10.
- Hanes, Dorris A., San Antonio, Tex. Foldable steering wheel. No. 1,416,636; May 16.
- Hanes, S. B., et al. (See Johnson, Adolph A., assignor.)
- Hanes, Tecumseh S. (See Bable, Edward M., assignor.)
- Haney, Archie. (See Dillon, W. C., Toay, and Haney.)
- Haney, Frank C., Powell, Wyo. Bearing-sleeve extractor. No. 1,430,164; Sept. 26.
- Haney, Fred G., East Liverpool, Ohio, assignor of forty per cent to H. G. Ehrlich, Fort Wayne, Ind. Flying machine. No. 1,409,850; Mar. 14.
- Haney, George M., Grand Rapids, Mich. Seat and desk structure. No. 1,439,701; Dec. 26.
- Haney, Lewis H., Los Angeles, Calif. Pump. No. 1,423,496; July 18.
- Haney, Lewis H., assignor to Standard Deep Well Company, Los Angeles, Calif. Pump. No. 1,428,483; Sept. 5.
- Hanff, Edward, Liverpool, England. Shovel. No. 1,411,570; Apr. 4.
- Hanff, Edward A., assignor to Pittsburgh Engineering Works, Pittsburgh, Pa. Electric furnace. No. 1,430,987; Oct. 3.
- Hanford, Orrin A., Pasadena, Calif. Portable hand tool for capping, sealing, and unsealing bottles. No. 1,422,970; July 18.
- Hanford, Ralph B., Chicago, Ill. Bowling alley. No. 1,432,752; Oct. 24.
- Hangel, Louis H., Chicago, Ill. Addressing machine. No. 1,411,210; Mar. 28.
- Hangel, Louis H., Chicago, Ill. Automatic addressing machine. No. 1,411,350; Apr. 4.
- Hangleiter, Carl. (See Clemm, H., and Hangleiter.)
- Hansgen, Julius C., Chicago, assignor by mesne assignments, to Hansen Grinder Company, Cook County, Ill. Surface-grinding machine. No. 1,404,605; Jan. 24.
- Haning, Harley H., et al. (See Crippen, Henry M., assignor.)
- Haniuk, Wasyli, assignor of forty one-hundredths to F. Andrusyszyn, Perth Amboy, N. J. Aeronaut's safety attachment. No. 1,417,991; May 30.
- Hanke, August J., St. Louis, Mo. Sash lock. No. 1,424,762; Aug. 8.
- Hankel, George, Chicago, Ill. Loose-leaf binder. No. 1,433,949; Oct. 31.
- Hanker, Frederic C. (See Fortescue, C. L., and Hanker.)
- Hanker, Frederic C., Wilkinsburg, and C. M. Moss, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electrical system. No. 1,435,229; Nov. 14.
- Hankins, Kelly D., Ravenna, Nebr. Haystacker. No. 1,411,090; Mar. 28.
- Hanks, George R., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Dredge bucket. No. 1,421,345; June 27.
- Hanks, George R., and R. Somerville, assignors to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Dipper tooth. No. 1,419,047; June 6.

- Hanlan, Frederick. (See Sherman, H. B., and Hanlan.)
 Hanle, Benjamin W., Roselle Park, N. J. Wrench. No. 1,422,760; July 11.
 Hanley, Alfred, New York, N. Y. Nail set or center punch. No. 1,409,711; Mar. 14.
 Hanley, Frank W., Pittsburgh, Pa. Antiskid device. No. 1,439,548; Dec. 19.
 Hanley, William L., Jr., Bradford, Pa. Apparatus for hacking bricks. No. 1,413,402; Apr. 18.
 Hanlon, George J., Long Island City, assignor of one-half to J. A. Murray, Flushing, N. Y. Clamp and brace for stage wings. No. 1,419,848; June 13.
 Hanlon, John H., Somerville, Mass. Drifting valve. No. 1,423,797; July 25.
 Hanlon, John H., Somerville, Mass. Air-brake system. No. 1,426,061; Aug. 15.
 Hanlon, John H., Somerville, and W. J. Hanlon, Fitchburg, Mass. Gauge glass. No. 1,424,642; Aug. 1.
 Hanlon, William J. (See Hanlon, John H. and W. J.)
 Hanly, Benjamin M., Oakland, Calif. Hot-rivet passer. No. 1,413,727; Apr. 25.
 Hanly, Charles H., et al. (See Brintnall, Thomas M., assignor.)
 Hanly, J. Frank, et al. (See Brintnall, Thomas M., assignor.)
 Hanly, Joseph F., Brooklyn, N. Y. Posting tray for use with loose-leaf binders. No. 1,404,388; Jan. 24.
 Hanly, Raymond E., et al. (See Brintnall, Thomas M., assignor.)
 Hanna, Abe M. (See Hanna, Thomas.)
 Hanna, David B., assignor to Massey Concrete Products Corporation, Chicago, Ill. Pole-making machine. No. 1,410,750; Mar. 28.
 Hanna, David B., assignor to Massey Concrete Products Corporation, Chicago, Ill. Pole machine. No. 1,410,751; Mar. 28.
 Hanna Engineering Works. (See Eilersgaard, Asger, assignor.)
 Hanna Engineering Works. (See Krause, William P., assignor.)
 Hanna, Henry O., assignor of one-half to E. S. Reader, Oakland, Calif. Combined camp storage box and table. No. 1,402,290; Jan. 3.
 Hanna, Henry O., assignor of one-half to E. S. Reader, Oakland, Calif. Glare deflector. No. 1,409,340; Mar. 14.
 Hanna, John N., Ordway, Colo. Battery plate. No. 1,440,354; Dec. 26.
 Hanna, Luella H., executrix. (See Hanna, Thomas.)
 Hanna, Morris, New York, N. Y. Toy boat. No. 1,407,410; Feb. 21.
 Hanna, Richard W., Richmond, assignor to Standard Oil Company of California, San Francisco, Calif. Refining viscous petroleum oils. No. 1,404,389; Jan. 24.
 Hanna, Richard W., Richmond, assignor to Standard Oil Company of California, San Francisco, Calif. Continuous production of low-boiling-point hydrocarbons from petroleum oils. No. 1,408,698; Mar. 7.
 Hanna, Richard W., Richmond, assignor to Standard Oil Company of California, San Francisco, Calif. Continuous production of low-boiling-point hydrocarbons from petroleum oils. No. 1,419,378; June 13.
 Hanna, Thomas, deceased, by J. W. Bricker, administrator, and A. M. Hanna, deceased, by L. H. Hanna, executrix, Columbus, Ohio. Molding mixture. No. 1,429,586; Sept. 19.
 Hanna, William E., assignor to Valley Holding Corporation, Brackenridge, Pa. Hot-rolling extremely thin steel sheets. No. 1,426,730; Aug. 22.
 Hannaford, Samuel B. (See Sewall, D. O., Milliken, and Hannaford.)
 Hannab, Charles W. G., Portsmouth, Ohio. Sign. No. 1,403,772; Jan. 17.
 Hannab, Charles W. G., Portsmouth, Ohio. Sign. No. 1,417,519; May 30.
 Hannab, George K., S. M. Tilton and M. Kaarlela, Fitchburg, Mass. Bobbin-stripping machine. No. 1,439,162; Dec. 19.
 Hannah, George O., St. John, New Brunswick, Canada. Vulcanite scraper. No. 1,410,296; Mar. 21.
 Hanneman, Fred W., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Seat upholstery for vehicles. No. 1,431,581; Oct. 10.
 Hanner, George W., Lordsburg, N. Mex. Railway tie and rail fastener. No. 1,403,027; Jan. 10.
 Hanner, George W., Lordsburg, N. Mex. Fishplate. No. 1,439,413; Dec. 19.
 Hanney, Angus F., assignor of one-half to A. Gammell, Chicago, Ill. Garment fastener. No. 1,411,091; Mar. 28.
 Hanney, Angus F., assignor to Eureka Rough Dry Pin System Co., Chicago, Ill. Laundry tag. No. 1,411,092; Mar. 28.
 Hannum, George H., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Steering mechanism for motor vehicles. No. 1,425,765; Aug. 15.
 Hans, Edmund E., Detroit, Mich. Traction wheel. No. 1,407,153; Feb. 21.
 Hans, Edmund E., Kalamazoo, Mich. Steering gear and front axle. No. 1,411,494; Apr. 4.
 Hans, Edmund E., Detroit, Mich. Purifier for lubricating oils. No. 1,420,837; June 27.
 Hans, Pierre, Brussels, Belgium. Keyboard for musical instruments. No. 1,421,464; July 4.
 Hanscom, Frank Z., Elmhurst, Ill. Teeth and backings therefor. No. 1,435,601; Nov. 14.
 Hanscatische Triumph Werke Gesellschaft mit beschränkter Haftung. (See Heydenbluth, Erich K. F., assignor.)
 Hansel, Charles. (See Kneuper, George, assignor.)
 Hansemann, Richard A. (See Fahlenberg, Hermann, assignor.)
 Hansemann, Richard A. (See Kucharski, Stanislaus, assignor.)
 Hansen, Albert, New York, N. Y. Steering gear. No. 1,403,318; Jan. 10.
 Hansen, Arthur, Skotselven, Norway. Sulphur combustion furnace. No. 1,436,762; Nov. 28.
 Hansen, Arthur B., New York, N. Y. Apparatus for submarine work. No. 1,425,471; Aug. 8.
 Hansen, Axel, Madelia, Minn. Disk sharpening and polishing machine. No. 1,436,166; Nov. 21.
 Hansen, Bertrem, et al. (See Ramon, Peter J., assignor.)
 Hansen, Carl W. (See Vetter, J. J., and Hansen.)
 Hansen, Charles C., Forest Park, assignor to Refrigerating Specialties Company, Chicago, Ill. Refrigerating apparatus. No. 1,402,418; Jan. 3.
 Hansen, Charles C., Forest Park, assignor to Refrigerating Specialties Company, Chicago, Ill. Controlling mechanism for refrigerating apparatus. No. 1,422,853; July 18.
 Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Shot bit. No. 1,406,185; Feb. 14.
 Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Casing-cutting tool. No. 1,406,853; Feb. 14.
 Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Oil-burning forge. No. 1,415,553; May 9.
 Hansen, Charles E., Providence, R. I. Pencil attachment. No. 1,424,096; July 25.
 Hansen, Charles E., Providence, R. I. Composition white metal. No. 1,431,113; Oct. 3.
 Hansen, Christ, Mink Creek, Idaho. Hammer. No. 1,422,262; July 11.
 Hansen, Christian H. (See Nielsen, J. W., Hansen, and Christoffersen.)
 Hansen, David, Raymond, Wash. Combination ironing and clothes chest. No. 1,440,009; Dec. 26.
 Hansen, Dethlef C., Chicago, Ill. Drier. No. 1,434,008; Oct. 31.
 Hansen, George, and E. Schmit, Chicago, Ill. Aeroplane. No. 1,429,284; Sept. 19.
 Hansen Grinder Company. (See Hansen, Julius C., assignor.)
 Hansen, Hans C. (See Hansen, William and H. C., and Bearby.)
 Hansen, Hans K., Sioux City, Iowa. Beverage-serving refrigerator. No. 1,402,602; Jan. 3.
 Hansen, Hans P. (See Hagedorn, E. F. C., and Hansen.)
 Hansen, Harvey F., Oakland, Calif. Rotary engine. No. 1,410,099; Mar. 21.
 Hansen, Karen M., Silkeborg, Denmark. Doll. No. 1,407,270; Feb. 21.
 Hansen, Klaus L., Milwaukee, Wis. Constant-current generator for arc welding. No. 1,418,707; June 6.
 Hansen, Louis P., Burns, Kans. Well-drill jack. No. 1,407,654; Feb. 21.
 Hansen, Marinus, Brooklyn, N. Y. Gauge for eyeglass mountings. No. 1,421,465; July 4.
 Hansen, Nicholas, Bogota, N. J. Coupling device. No. 1,416,020; May 16.
 Hansen, Niels, East Stanwood, Wash. Foot treadle. No. 1,431,114; Oct. 3.
 Hansen, Niels, Lyngby, Denmark. Veneering. No. 1,433,077; Oct. 24.
 Hansen, O. C., Manufacturing Company. (See Nielsen, Carl, assignor.)
 Hansen, Ole, Menan, Idaho. Beet elevator. No. 1,416,196; May 16.
 Hansen, Oswald H., New York, N. Y. Tire-pressure-gauge connection. No. 1,428,502; Sept. 5.
 Hansen, Otto E., and Sons. (See Lightfoot, Edwin N., assignor.)
 Hansen, Otto E. & Sons. (See Vetter, J. J., and Hansen, assignors.)
 Hansen, Peter. (See Mardonez, R. J., and Hansen.)
 Hansen, Peter B., et al. (See Brown, Hiram F., assignor.)
 Hansen, Philip N., Los Angeles, Calif. Optician's finger-piece-mounting pliers. No. 1,412,519; Apr. 11.
 Hansen, Philip N., Los Angeles, Calif. Optician's multipliers. No. 1,412,520; Apr. 11.
 Hansen, Philip N., Los Angeles, Calif. Optician's angling pliers. No. 1,428,029; Sept. 5.
 Hansen, Sigurd, San Francisco, Calif. Harpoon. No. 1,414,084; Apr. 25.
 Hansen, Sofus E., Seattle, Wash. Device for launching ring life buoys. No. 1,423,561; July 25.
 Hansen, Svend, New York, N. Y. Bottle cap. No. 1,423,105; July 18.
 Hansen, Svend, New York, N. Y. Bottle cap. No. 1,423,106; July 18.
 Hansen, Thorvald. (See Smith, R. S., and Hansen.)
 Hansen, Walter H., San Francisco, Calif. Tent. No. 1,413,529; Apr. 18.
 Hansen, William, H. C. Hansen, and C. Bearby, Chicago, Ill. Safety fender for automobiles. No. 1,420,036; June 20.

Alphabetical list of patentees—Continued.

- Hanser, Charles A., Rotterdam, Netherlands. Arrangement for hydraulically weighing loads hanging in cranes. No. 1,435,603; Nov. 14.
- Hansley, Edward M., Stockton, Calif. Merry-go-round attachment for phonographs. No. 1,417,060; May 23.
- Hansley, Edward M., Stockton, Calif. Advertising novelty and toy. No. 1,417,061; May 23.
- Hansmann, Paul, Long Prairie, Minn. Side-hill plow. No. 1,409,712; Mar. 14.
- Hansmann, Paul, Long Prairie, Minn. Coupling mechanism. No. 1,413,728; Apr. 25.
- Hanson, Albert B., et al. (See Perry, James M., assignor.)
- Hanson, Albert T., Seattle, Wash. Pneumatic arch support. No. 1,435,602; Nov. 14.
- Hanson, Andrew L., Cumberland Center, Me. Darning form. No. 1,404,763; Jan. 31.
- Hanson, Bengt M. W., Hartford, Conn. Fishing reel. No. 1,406,005; Feb. 7.
- Hanson, Bengt M. W., Hartford, Conn. Tool holder. No. 1,406,006; Feb. 7.
- Hanson, Bengt M. W., Hartford, Conn. Metal-working machine. No. 1,409,102; Mar. 7.
- Hanson, Bengt M. W., Hartford, Conn. Metal-working machine. No. 1,412,864; Apr. 18.
- Hanson, Bengt M. W., Hartford, Conn. Metal-working machine. No. 1,415,341; May 9.
- Hanson, Bengt M. W., Hartford, Conn. Work holder. No. 1,415,342; May 9.
- Hanson, Bengt M. W., Hartford, Conn. Metal-working machine. No. 1,432,853; Oct. 24.
- Hanson, Bengt M. W., Hartford, Conn. Motion-translating device. No. 1,432,854; Oct. 24.
- Hanson, Bengt M. W., Hartford, Conn. Transmission mechanism. No. 1,439,414; Dec. 19.
- Hanson, Bengt M. W., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Grinding machine. No. 1,416,462; May 16.
- Hanson, Bengt M. W., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Grinding machine. No. 1,416,463; May 16.
- Hanson, Bengt M. W., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Wheel-dressing mechanism. No. 1,416,667; May 16.
- Hanson, Carl. (See Johnson, Albin J., assignor.)
- Hanson, Chris, Fort Dodge, Iowa. Auxiliary link and chain fastener. No. 1,408,998; Mar. 7.
- Hanson, Chris, Fort Dodge, Iowa. Combined chain fastener and link. No. 1,440,076; Dec. 26.
- Hanson, Earl C., Washington, D. C. and E. T. Jones, New Orleans, La. Radiosignaling system. No. 1,429,240; Sept. 19.
- Hanson, Earl C., and W. L. Carlson, Washington, D. C. Apparatus for detecting minute values of energy. No. 1,437,240; Nov. 28.
- Hanson, George T. (See Sherwood, Charles F., assignor.)
- Hanson, Gunil J., Minneapolis, Minn. Collapsible toy house. No. 1,429,871; Sept. 19.
- Hanson, Hans, Ivoryton, Conn., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,416,464; May 16.
- Hanson, Hans C., assignor to American Gas Machine Company, Albert Lea, Minn. Folding camp stove. (Reissue.) No. 1,332,5; Apr. 4.
- Hanson, Hans E., Innisfree, Alberta, Canada. Transplanting device. No. 1,425,588; Aug. 15.
- Hanson, Hans P., Cambridge, Minn. Window silencer. No. 1,429,872; Sept. 19.
- Hanson, Harry, Watertown, assignor to Select Service Company, Boston, Mass. Automatic coat, hat, and umbrella rack. No. 1,412,939; Apr. 18.
- Hanson, Harry C., Minneapolis, Minn. Wall attachment. No. 1,422,052; July 4.
- Hanson, Harry J., Amentia, N. Dak. Potato cutter. No. 1,424,474; Aug. 1.
- Hanson, Herman, Garfield, Minn. Weeder and pulverizer. No. 1,420,698; June 27.
- Hanson, Hugo H., Boston, Mass., and P. E. Hodgdon, Bangor, Me., assignors to Eastern Manufacturing Company, Boston, Mass. Finishing paper. No. 1,401,980; Jan. 3.
- Hanson, James, Stafford, England. Fitting for high-pressure-fluid systems. No. 1,403,773; Jan. 17.
- Hanson, James, Stafford, England. Hydraulic apparatus. No. 1,410,100; Mar. 21.
- Hanson, James R., and J. R. Shepherd, Anderson, S. C. Ring-rail brace for spinning machines. No. 1,421,466; July 4.
- Hanson, John, et al. (See Cameron, Everett S., assignor.)
- Hanson, John, Dayhof, Alaska. Gaff hook. No. 1,404,117; Jan. 17.
- Hanson, John, Worcester, Mass. Woodworking machine. No. 1,422,971; July 18.
- Hanson, Larry A., Altoona, Pa. Electric switch. No. 1,408,592; Mar. 7.
- Hanson, Lucy V., Leesburg, Fla. Garment hanger. No. 1,406,007; Feb. 7.
- Hanson, Oscar B., Tiffin, Ohio. Belt-conveyer tripper. No. 1,429,732; Sept. 19.
- Hanson, Oscar J., Fargo, N. Dak. Typewriting-instruction machine. No. 1,422,053; July 4.
- Hanson, Oscar W., Salina, Kans. Variable-speed mechanism. No. 1,402,493; Jan. 3.
- Hanson, Oscar W., Salina, Kans. Piston. No. 1,426,072; Aug. 15.
- Hanson, Sigvort, assignor to Racine Dispensing Manufacturing Company, Racine, Wis. Dispensing machine. No. 1,431,582; Oct. 10.
- Hanson, Stanley A., Barnsville, Ga. Undergarment. No. 1,417,992; May 30.
- Hanson, William, Los Angeles, Calif. Automatic gas valve. No. 1,430,502; Sept. 26.
- Hanson, William C. (See Higgins, C. R., and Hanson.)
- Hanson, William F., San Francisco, Calif. Clock frame. No. 1,415,636; May 9.
- Hansson, Soren. (See Anderson, Harry T., assignor.)
- Hantsch, Alfred P., New Brunswick, N. J. Plate envelope. No. 1,423,420; July 18.
- Hanus, Joseph J., Ennis, Tex. Cotton gin. No. 1,403,774; Jan. 17.
- Hanus, Raymond, Brussels, Belgium. Typewriter. No. 1,434,951; Nov. 7.
- Harway, Thomas F., Chicago, Ill. Spark plug. No. 1,405,686; Feb. 7.
- Hapgood, Charles W., Boston, Mass. Refrigerating apparatus. No. 1,427,379; Aug. 29.
- Hapgood, Charles W., Boston, Mass. Refrigerating apparatus. No. 1,428,958; Sept. 12.
- Hapgood, Clarence H., assignor to Toledo Scale Company, Toledo, Ohio. Indicating attachment for computing scales. No. 1,402,762; Jan. 10.
- Hapgood, Clarence H., assignor to Toledo Scale Company, Toledo, Ohio. Scale. No. 1,402,763; Jan. 10.
- Hapgood, Clarence H., Toledo, Ohio, assignor, by mesne assignments, to Toledo Computing Scale Company, Trenton, N. J. Scale. No. 1,402,764; Jan. 10.
- Hapgood, Clarence H., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. No. 1,411,211; Mar. 28.
- Hapgood, Clarence H., assignor to Toledo Scale Company, Toledo, Ohio. Spring scale. No. 1,424,354; Aug. 1.
- Hapgood, Clarence H., assignor to Toledo Scale Company, Toledo, Ohio. Testing machine for piston rings and the like. No. 1,439,469; Dec. 19.
- Hapgood, Clarence H., assignor to Toledo Scale Company, Toledo, Ohio. Scale. No. 1,439,470; Dec. 19.
- Hapgood, Cyrus H. (See Daysh, N., and Hapgood.)
- Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Milking-machine system. No. 1,421,773; July 4.
- Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Centrifugal machine. No. 1,422,856; July 18.
- Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Master-pulsator mechanism for milking machines. No. 1,424,401; Aug. 1.
- Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Purifying and dehydrating transformer oil. No. 1,425,645; Aug. 15.
- Hapgood, Frank H., Stevenson, Wash. Hame and trace connector. No. 1,406,008; Feb. 7.
- Happel, Frederick E., Ballston, Va. Comb cleaner. No. 1,431,397; Oct. 10.
- Happensack, Edward F., assignor to The O. P. Schriver Company, Cincinnati, Ohio. Box and coupling for chain pumps. No. 1,439,814; Dec. 26.
- Happy, John L., Chicago, Ill. Combination table. No. 1,427,208; Aug. 29.
- Harbaugh, Charles B., Milwaukee, Wis. Milking machine. No. 1,408,505; Mar. 7.
- Harberd, Edmund H. (See Sonsthagen, A., and Harberd.)
- Harbinger, Waldemar, London, England. Crane. No. 1,402,291; Jan. 3.
- Harbord, Frank W., London, England. Roasting complex zinc sulphide ores or the like. No. 1,422,701; July 11.
- Hard, A. Perry, et al. (See Faust, Levin, assignor.)
- Hard Mfg. Co. (See Wujek, Martin J., assignor.)
- Hardel, Jean A., Paris, France. Gas-heating apparatus. No. 1,410,806; Mar. 28.
- Harden, Albert S., Newark, N. J. Wind-shield attachment. No. 1,421,467; July 4.
- Harden, Jessie F., Brundidge, Ala. Cultivator. No. 1,415,637; May 9.
- Harden, Jessie F., Brundidge, Ala. Cultivator. No. 1,415,638; May 9.
- Harden, Ora D., assignor, by mesne assignments, of one-half to C. E. Summers, Chicago, Ill. Electrotyping-case polisher. No. 1,418,074; May 30.
- Harden, William H., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Repeater-testing arrangement. No. 1,404,288; Jan. 24.
- Harder, Alexander P., and A. O. Olson, Rockford, Ill. Fire-door smoke preventer. No. 1,431,949; Oct. 17.
- Harder, Arthur J., Chicago, Ill. Linotype-bar cutting or broaching machine. No. 1,429,075; Sept. 12.
- Harder, Harry E. (See Newsom, J. N., and Harder.)
- Harder, Harry E., assignor of one-half to W. F. Leschen, St. Louis, Mo. Pressure gauge. No. 1,421,774; July 4.
- Harder, Paul H., Copenhagen, Denmark. Puncture-healing tube. No. 1,429,031; Sept. 12.
- Hardesty, Chester C., Cleveland, Ohio. Adjustable sign bracket. No. 1,405,842; Feb. 7.
- Hardie, James G., Canton, N. Y. Sheet-feeding machine. No. 1,412,404; Apr. 11.

Alphabetical list of patentees—Continued.

- Hardie, Robert S., Calgary, Alberta, Canada. Nut lock. No. 1,431,459; Oct. 10.
- Hardie, Robert W., West Englewood, N. J. Air humidifier. No. 1,404,700; Jan. 24.
- Hardin, Ray S., and E. W. Wiehle, assignors to Birtman Electric Company, Chicago, Ill. Centrifugal switch. No. 1,419,626; June 13.
- Harding, Charles B., et al. (See Mason, William S., assignor.)
- Harding, Harvey, East Orange, N. J. Boiler. No. 1,438,596; Dec. 12.
- Harding, Henry C., assignor of one-half to M. B. Rutherford, Chicago, Ill. Applying iodine to diseased and injured portions of the body. No. 1,426,633; Aug. 22.
- Harding, Hiram R., assignor to The Harding Peeling Machine Company, Inc., Baltimore, Md. Machine for skinning and coring tomatoes. No. 1,423,421; July 18.
- Harding, Hiram R., assignor to The Harding Peeling Machine Company, Inc., Baltimore, Md. Jointless woven-wire belt conveyor. No. 1,438,825; Dec. 12.
- Harding Manufacturing Co. (See Waterman, Albert A., assignor.)
- Harding, Paul O., Carlton, Oreg. Surveying instrument. No. 1,425,589; Aug. 15.
- Harding Peeling Machine Company, The. (See Harding, Hiram R., assignor.)
- Harding, Roy L. (See Nichols, W. M., and Harding.)
- Harding, William H., Jr. (See Faber, H. B., and Harding.)
- Hardinge Brothers, Inc. (See Hardinge, Franklin, assignor.)
- Hardinge Company. (See Hardinge, Harry W., assignor.)
- Hardinge, Franklin, Chicago, Ill. Oil burner. No. 1,417,520; May 30.
- Hardinge, Franklin, assignor to Hardinge Brothers, Inc., Chicago, Ill. Fuel-oil burner. No. 1,403,952; Jan. 17.
- Hardinge, Harry W., assignor to Hardinge Company, Inc., New York, N. Y. Outlet for conical mills. No. 1,436,877; Nov. 28.
- Hardman, George H., Fall River, Mass. Coating for railway ties and applying the same. No. 1,418,708; June 6.
- Hardman, Glenn. (See Harrington, Claude B., assignor.)
- Hardman, Morris, San Francisco, Calif. Opera chair. No. 1,418,709; June 6.
- Hardman, Semion L., Ocean Park, Calif. Caster. No. 1,420,190; June 20.
- Hardman, Walter A., Brooklyn, N. Y. Attachment for sweatbands of hats. No. 1,434,743; Nov. 7.
- Hardt, Harry C. (See Netherlton, John W., assignor.)
- Hardt, Johann, Hindenburg, Germany. Ellipsograph. No. 1,411,493; Apr. 4.
- Hardt, Johann, Hindenburg, assignor to J. Sobawa, Bries, Germany. Compasses for drawing oviform curves. No. 1,431,654; Oct. 10.
- Hardwick, W. M., et al. (See Kien, Edward T., assignor.)
- Hardwicke-Etter Company. (See Hooton, Claude A., assignor.)
- Hardy, Carl A., Berlin Heights, Ohio. Demountable rim. No. 1,440,290; Dec. 26.
- Hardy, Charles S., San Diego, Calif. Apparatus for cooling lard, etc. No. 1,405,554; Feb. 7.
- Hardy, Emery E., Brooklyn, N. Y. Sheet-metal nail. No. 1,404,760; Jan. 31.
- Hardy, Emery E., Brooklyn, N. Y. Roller skate. No. 1,406,641; Feb. 14.
- Hardy, Emery E., Brooklyn, N. Y. Roller skate. No. 1,406,642; Feb. 14.
- Hardy, Emery E., Brooklyn, N. Y. Roller skate. No. 1,406,643; Feb. 14.
- Hardy, Emery E., Brooklyn, N. Y. Roller skate. No. 1,406,644; Feb. 14.
- Hardy, Essie, assignor of one-half to A. H. Cowan, Uniontown, Pa. Automobile, furniture, and woodwork polish. No. 1,404,367; Jan. 24.
- Hardy, F. A., & Company. (See Kingsbury, Charles A., assignor.)
- Hardy, George, assignor to The Mills Works & Machinery Limited, Pont Rouge, Quebec, Canada. Paste regulator for paper-making machines. No. 1,406,009; Feb. 7.
- Hardy, Isaac A., Evansville, Ind. Cigar-banding machine. No. 1,409,375; Mar. 14.
- Hardy, James E., Jr., Louisville, Ky. Whiffletree. No. 1,409,713; Mar. 14.
- Hardy, James H., Crawford, Miss. Spring frog rail. No. 1,425,253; Aug. 8.
- Hardy, James H., Crawford, Miss. Railway crossing. No. 1,425,472; Aug. 8.
- Hardy, James H., Crawford, Miss. Railway crossing. No. 1,426,292; Aug. 15.
- Hardy, William B., and J. J. Piqué, Westminster, London, England. Apparatus for cooling and freezing of fish and the like. No. 1,422,570; July 11.
- Hare, Edward D., Erie, Pa. Nut lock. No. 1,404,023; Jan. 17.
- Hare, Frank E., Manchester, Iowa. Telephone or desk memorandum. No. 1,419,966; June 20.
- Hare, James P., Todmorden, Ontario, Canada. Rail anchor. No. 1,402,859; Jan. 10.
- Hare, James P., Todmorden, Ontario, Canada. Railway switch and crossover. No. 1,411,019; Mar. 28.
- Hargan, Augustus D., Bayonne, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone switching key. No. 1,432,852; Oct. 24.
- Hargraves, Albert, assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Solid-tire-regrooving machine. No. 1,404,118; Jan. 17.
- Hargreaves, Harold, Burnley, England. Water heater. No. 1,415,843; May 9.
- Hargreaves, John, Bolton, assignor of one-half to N. Kaye, Huddersfield, York, England. Ring traveler. No. 1,403,077; Jan. 10.
- Hargreaves, William, Manchester, Chorlton-cum-Hardy, assignor of one-half to K. L. Ross and Company, Limited, Stockport, England. Safety valve. No. 1,404,390; Jan. 24.
- Harila, Andrew, Park City, Utah. Altitude meter. No. 1,418,922; June 6.
- Harivcau, Paul, Paris, France. Keying device for shafts. No. 1,417,826; May 30.
- Harkins, Donald G., Canton, N. C. Aeroplane propeller. No. 1,407,271; Feb. 21.
- Harkins, Donald G., Canton, N. C. Aeroplane propelling means. No. 1,407,272; Feb. 21.
- Harkness, Bertram G. A., and H. F. Vosseler, Stratford, Taranaki, New Zealand. Oscillating vacuum pump. No. 1,427,533; Aug. 29.
- Harkness, George K. (See Scruby, B., and Harkness.)
- Harkom, John W., Melbourne, Quebec, Canada. Sighting device. No. 1,440,291; Dec. 26.
- Harlan, Frederick T., assignor of one-half to E. J. Ratz, Plainview, Ill. Toy amusement wheel. No. 1,413,850; Apr. 25.
- Harland and Wolff, Limited. (See Harvey, R., and Holmes, assignors.)
- Harle, Balwin, et al. (See Smith, Charles P., assignor.)
- Harless, Joseph M. (See Reese, H. D., and Harless.)
- Harley, Walter C., Oakland, Calif. Adjustable rope fastener. No. 1,408,940; Mar. 7.
- Harloe, Morton, Winchester, Va. Resilient tire. No. 1,404,391; Jan. 24.
- Harlow, Harry, assignor of four-tenths to J. M. Yewell, Louisville, Ky. Forced-hot-air heater. No. 1,407,411; Feb. 21.
- Harlow, Ivan F., assignor to The Dow Chemical Company, Midland, Mich. Extracting potassium salts from bitters. No. 1,422,571; July 11.
- Harlow, John B., Upper Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Switching system. No. 1,419,561; June 13.
- Harlowe, Raphael E., Los Angeles, Calif. Trolley guard. No. 1,414,274; Apr. 25.
- Harman, Fred L., Cedar Falls, Wash. Tire-deflation signal. No. 1,410,297; Mar. 21.
- Harman, John J., Newton, Mass., assignor, by mesne assignments, to Old Colony Trust Company, trustee. Pipe cutter. No. 1,435,467; Nov. 14.
- Harmer, Percy. (See Henry, C. P., and Harmer.)
- Harmon, Anne, Irvington-on-the-Hudson, N. Y. Athletic skirt. No. 1,422,441; July 11.
- Harmon, Charles D., Jacksonville, Ill. Ladder. No. 1,428,370; Sept. 5.
- Harmon, Chester C., Portland, Me. Air-seal-lock pneumatic inner tube. No. 1,432,333; Oct. 17.
- Harmon, Edwin L. (See Armstrong, F. H., and Harmon, assignors.)
- Harmon, Edwin L., assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting machine. No. 1,404,201; Jan. 24.
- Harmon, Edwin L., assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting machine. No. 1,404,202; Jan. 24.
- Harmon, Edwin L., assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting machine. No. 1,437,241; Nov. 28.
- Harmon, Frank L., Beverly, Mass., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Duplex fastener-setting machine. No. 1,426,473; Aug. 22.
- Harmon, Robert, New York, N. Y. Attachment for medicine bottles. No. 1,421,219; June 27.
- Harms, B. (See Power, Vincent J., assignor.)
- Harms, Irwin O., Hillsboro, Kans. Shoehorn. No. 1,423,422; July 18.
- Harne, Roy M., Creston, Iowa. Oil control. No. 1,433,613; Oct. 31.
- Harned, Charles T., Philadelphia, Pa. Insect trap. No. 1,410,298; Mar. 21.
- Harned, Charles T., Philadelphia, Pa. Lamp holder. No. 1,413,530; Apr. 18.
- Harness, Charles D., Xenia, and C. D. Bradshaw, Lucasville, Ohio. Corn planter. No. 1,420,923; June 27.
- Harness, George W., Dayton, Ohio. Fluid computing and recording device. No. 1,439,163; Dec. 19.
- Harnsberger, Stephen. (See Lewis, Lowry, assignor.)
- Harold, Joseph F. X. (See Grosvenor, W. M., and Harold.)
- Harp, William I., Galax, Va. Demountable rim. No. 1,436,249; Nov. 21.
- Harpel, Jacob J., Elmira, N. Y. Washing machine for washing fabrics. No. 1,426,185; Aug. 15.
- Harper, Alfred U., Evanston, Ill., assignor to American Telephone and Telegraph Company. Transmission-equalization arrangement. No. 1,407,028; Feb. 21.
- Harper, Clarence S. (See Hedrick, J. W., and Harper.)
- Harper, Douglas R., Cameron, Tex. Motor switch. No. 1,424,901; Aug. 8.
- Harper, Fred, Watertown, S. Dak. Moisture indicator for churns. No. 1,409,851; Mar. 14.

Alphabetical list of patentees—Continued.

- Harper, Freeman R., Woburn, Mass. Footrest for accelerator pedals. No. 1,430,547; Oct. 3.
- Harper, Guy D., Franklin, Pa. Producing lubricating oils. No. 1,414,695; May 2.
- Harper, Harold C., Detroit, Mich. Window guard. No. 1,440,144; Dec. 26.
- Harper, Jesse C., Waycross, Ga. Guard for lever openings. No. 1,402,603; Jan. 3.
- Harper, Joel P., Bluefield, W. Va. Universal valve-spring compressor. No. 1,437,242; Nov. 28.
- Harper, John L., Seattle, Wash. Hydrostatic jack. No. 1,409,441; Mar. 14.
- Harper, Joseph H., Springfield, Ohio. Coffin. No. 1,423,848; July 25.
- Harper, Walter D., Florence, S. C. Fireplace heater. No. 1,433,551; Oct. 17.
- Harper, William, Jr., assignor, by mesne assignments, to Skywing Aircraft Corporation, New York, N. Y. Method and means for cooling cylinders, etc. No. 1,404,289; Jan. 24.
- Harper, William, Jr., assignor, by mesne assignments, to Skywing Aircraft Corporation, New York, N. Y. Combustion engine. No. 1,413,912; Apr. 25.
- Harper, William, Jr., assignor, by mesne assignments, to Gas Turbine Corporation, New York, N. Y. Combustion-engine valve mechanism. No. 1,429,943; Sept. 26.
- Harper, William D., Newton, Mass. Vehicle body suspension. (Reissue.) No. 15,336; Apr. 18.
- Harpham Brothers Company. (See Lene, Reinhold S., assignor.)
- Harpham, G. E. (See Ferguson, Robert B., assignor.)
- Harpmann, Charles A. (See Sharp, Robert C., assignor.)
- Harpmann, Charles A., et al. (See Velcio, John, assignor.)
- Harpoottan, Louis S., Brooklyn, N. Y. Self-feeding, portable, typewriter-ribbon ink. No. 1,411,212; Mar. 28.
- Harrah, George D., assignor to Multiplex Filing Device Company, Buffalo, N. Y. Filing device. No. 1,416,287; May 16.
- Harrah, George D., assignor to Multiplex Filing Device Company, Buffalo, N. Y. Filing device. No. 1,416,288; May 16.
- Harrah, George D., assignor to Multiplex Filing Device Company, Buffalo, N. Y. Filing device. No. 1,416,289; May 16.
- Harralson, Charles L., Ranger, Tex. Roller-bearing swivel wrench plate. No. 1,403,161; Jan. 10.
- Harrel, Chastain G., Liberty, Mo., assignor to The Campbell Baking Company, Wilmington, Del. Blending wheaten. No. 1,429,504; Sept. 19.
- Harrell, Annie L., Seattle, Wash. Lock nut and bolt. No. 1,413,024; Apr. 18.
- Harrell, Arthur C. (See Le Baron, L., and Harrell.)
- Harrell, John W., Cincinnati, Ohio. Fuel-feeding system for steam motor vehicles. No. 1,410,101; Mar. 21.
- Harrigan, Thomas M., Woodstock, Vt. Pen and pencil grip. No. 1,419,257; June 13.
- Harriman, George W. R., Malden, Mass. Means for determining routes, distances, and rates for traffic. No. 1,408,455; Mar. 7.
- Harriman, George W. R., Malden, Mass. Waterway chart. No. 1,429,285; Sept. 19.
- Harriman, Leslie M., Lynn, Mass. Torpedo guard for vessels. No. 1,413,270; Apr. 18.
- Harriman National Bank of the City of New York, trustee. (See Vasselli, Anthony, assignor.)
- Harrington, Claude B., assignor of one-third to G. Hardman, McMechen, W. Va. Motion-picture apparatus. No. 1,403,549; Jan. 17.
- Harrington, Harry A., Cuyahoga Falls, Ohio. Electrical generating system. No. 1,423,107; July 18.
- Harrington, Joseph, Chicago, Ill. Furnace. No. 1,402,419; Jan. 3.
- Harrington, Joseph, Riverside, Ill. Heating apparatus. No. 1,418,871; June 6.
- Harrington, Joseph A., Chester, Pa., assignor of one-half to M. J. Lydon, Boston, Mass. Sharpening device for safety-razor blades. No. 1,431,460; Oct. 10.
- Harrington, Norman T., Cleveland, Ohio. Loading and unloading apparatus. No. 1,435,604; Nov. 14.
- Harrington, Norman T., Cleveland, Ohio. Load-handling system. No. 1,435,605; Nov. 14.
- Harrington, Norman T., Cleveland, Ohio. Clearance-testing instrument. No. 1,437,053; Nov. 28.
- Harrington, Thomas E., Silver City, N. Mex. Automatic gate. No. 1,426,062; Aug. 15.
- Harrington, Thomas R., Platte City, Mo. Shock loader. No. 1,429,032; Sept. 12.
- Harrington, Tillie, Minneapolis, Minn. Vessel cover. No. 1,411,093; Mar. 28.
- Harrington, Timothy. (See Staples, Willard G., assignor.)
- Harrington, Walter V., et al. (See Cook, Phillip H., assignor.)
- Harrington, William F., Toledo, Ohio. Clutch. No. 1,419,849; June 13.
- Harrington, William F., assignor to The Willys-Overland Company, Toledo, Ohio. Headlight-controlling mechanism. No. 1,421,775; July 4.
- Harris Accessory Company. (See Harris, William A., assignor.)
- Harris, Alfred E., et al. (See Wale, Alfred E., assignor.)
- Harris, Amos H., Bloomington, Kans. Cane and Kafr-corn topper. No. 1,431,950; Oct. 17.
- Harris, Archer H., Barberton, Ohio. Collapsible-tire core. No. 1,426,865; Aug. 22.
- Harris, Archer H., Barberton, assignor of one-half to E. A. Armstrong, Akron, Ohio. Tire-rimming apparatus. No. 1,429,733; Sept. 19.
- Harris, Arthur C., et al. (See Harris, Wilfred H., assignor.)
- Harris, Aye, Cincinnati, Ohio. Mop. No. 1,430,988; Oct. 3.
- Harris, Benjamin, et al. (See Cameron, Everett, et al., assignor.)
- Harris, Benjamin, Pittsburgh, Pa. Temperature indicator. No. 1,410,567; Mar. 28.
- Harris, Claude W., Levenshulme, Manchester, England. Die head of screw-cutting machines. No. 1,417,601; May 30.
- Harris, Clinton B. (See Stephens, J. J., and Harris.)
- Harris Company. (See Roberts, Maurice H., assignor.)
- Harris, Daniel M., Johnstown, and J. W. Barr, Ferndale Borough, Pa. Car dumper. No. 1,435,703; Nov. 14.
- Harris, Ebenezer B., Jr., Denver, Colo. Rotary scraper. No. 1,432,855; Oct. 24.
- Harris, Edward B. (See Babb, A., and Harris.)
- Harris, Edward K. (See Jones, E. W., and Harris.)
- Harris, Edward R., New York, N. Y., assignor to J. H. Harris, Lachine, Quebec, Canada. Talking-machine record and making same. No. 1,413,984; Apr. 25.
- Harris, Edwin O. (See Saeter, O. F., and Harris.)
- Harris, Elmer P., New York, N. Y. Securing means. No. 1,432,243; Oct. 17.
- Harris, Ernest F., et al. (See Harris, Wilfred H., assignor.)
- Harris, Ernest G., North Vancouver, British Columbia, Canada. Sprinkler-system alarm valve. No. 1,425,254; Aug. 8.
- Harris, Felix, Los Angeles, Calif. Burner. No. 1,431,791; Oct. 10.
- Harris, Ford W. (See Burks, D., Bardeen, and Harris.)
- Harris, Ford W. (See Ward, C. E., and Harris.)
- Harris, Ford W., Los Angeles, assignor, by mesne assignments, to Petroleum Rectifying Company, San Francisco, Calif. Dehydrator for petroleum emulsions. No. 1,405,117; Jan. 31.
- Harris, Ford W., Los Angeles, assignor, by mesne assignments, to Petroleum Rectifying Company, San Francisco, Calif. Apparatus for removing water from petroleum emulsions. No. 1,405,118; Jan. 31.
- Harris, Ford W., Los Angeles, assignor, by mesne assignments, to Petroleum Rectifying Company, San Francisco, Calif. Apparatus for dehydrating petroleum emulsions. No. 1,405,119; Jan. 31.
- Harris, Ford W., Los Angeles, assignor, by mesne assignments, to Petroleum Rectifying Company, San Francisco, Calif. System of water control for electrical dehydrators. No. 1,405,120; Jan. 31.
- Harris, Ford W., Los Angeles, assignor, by mesne assignments, to Petroleum Rectifying Company, San Francisco, Calif. Dehydrator. No. 1,405,121; Jan. 31.
- Harris, Ford W., Los Angeles, assignor, by mesne assignments, to Petroleum Rectifying Company, San Francisco, Calif. Method and apparatus for dehydrating petroleum emulsions. No. 1,405,122; Jan. 31.
- Harris, Ford W., Los Angeles, assignor, by mesne assignments, to Petroleum Rectifying Company, San Francisco, Calif. Apparatus for dehydrating petroleum emulsions. No. 1,405,123; Jan. 31.
- Harris, Ford W., Los Angeles, assignor, by mesne assignments, to Petroleum Rectifying Company, San Francisco, Calif. Dehydrator for petroleum emulsions and water-controlled systems for same. No. 1,405,124; Jan. 31.
- Harris, Ford W., Los Angeles, assignor, by mesne assignments, to Petroleum Rectifying Company, San Francisco, Calif. Dehydrating emulsions. No. 1,405,125; Jan. 31.
- Harris, Ford W., Los Angeles, assignor to Petroleum Rectifying Company, San Francisco, Calif. Dehydrating petroleum emulsions. No. 1,405,126; Jan. 31.
- Harris, Ford W., Los Angeles, assignor to Petroleum Rectifying Company, San Francisco, Calif. Dehydrating emulsions. No. 1,405,127; Jan. 31.
- Harris, Ford W., Los Angeles, assignor, by mesne assignments, to Petroleum Rectifying Company, San Francisco, Calif. Method and apparatus for dehydrating petroleum oils. No. 1,405,128; Jan. 31.
- Harris, Ford W., Los Angeles, assignor, by mesne assignments, to Petroleum Rectifying Company, San Francisco, Calif. Process and apparatus for dehydrating petroleum emulsions. No. 1,405,129; Jan. 31.
- Harris, Ford W., Los Angeles, assignor to Petroleum Rectifying Company, San Francisco, Calif. Method and apparatus for dehydrating emulsions. No. 1,405,130; Jan. 31.
- Harris, Ford W., Los Angeles, Calif., assignor to Petroleum Rectifying Company. Dehydrating heavy oils. No. 1,410,673; Mar. 28.
- Harris, Ford W., assignor to Petroleum Rectifying Company of California, San Francisco, Calif. Dehydrator. No. 1,430,300; Sept. 26.
- Harris, Ford W., Los Angeles, assignor to Petroleum Rectifying Company, San Francisco, Calif. Starter for electrical dehydrators. No. 1,430,301; Sept. 26.

- Harris, Ford W., Los Angeles, Calif., assignor to Petroleum Rectifying Company. Automatic dehydration. No. 1,430,302; Sept. 26.
- Harris, Frank C., Fairfield, Iowa. Speed indicator. No. 1,404,850; Jan. 31.
- Harris, Frank C., assignor to The Loudon Machinery Company, Fairfield, Iowa. Structural coupling. No. 1,404,522; Jan. 24.
- Harris, George H., Auckland, New Zealand. Advertising device. No. 1,433,003; Nov. 7.
- Harris, George H., assignor to Utica Valve and Fixture Company, Utica, N. Y. Gas cock. No. 1,426,731; Aug. 22.
- Harris, Glenn W. (See Gilbert, J. E., and Harris.)
- Harris, Gordon D., Islip, assignor to National Evaporator Corporation, New York, N. Y. Apparatus for evaporating moisture-containing materials. No. 1,405,780; Feb. 7.
- Harris, Gordon D., Freeport, assignor to National Evaporator Corporation, New York, N. Y. Conveyer drying apparatus. No. 1,405,781; Feb. 7.
- Harris, Harold I. (See Van Buskirk, Ernest K., assignor.)
- Harris, Harry. (See Maloney, Henry P., assignor.)
- Harris, Harry E., Bridgeport, Conn. Grinding wheel. No. 1,422,200; July 11.
- Harris, Harvey P. (See Smith, F. L., and Harris.)
- Harris, Henry, London, England. Refining of lead. No. 1,418,148; May 30.
- Harris, Henry S., A. E. Waite, and L. C. McCormick, Sacramento, Calif. Commutator. No. 1,404,761; Jan. 31.
- Harris, Hollis H., assignor, by mesne assignments, to The Thew Shovel Company, Lorain, Ohio. Power-propelled truck. No. 1,439,236; Dec. 19.
- Harris, Hubert E., Jonesboro, and J. H. Downey, Gainesville, Ga. Railway spike. No. 1,416,819; May 23.
- Harris, Hubert E., assignor to Railway Lock-Spike Company, Atlanta, Ga. Die and the manufacture of spikes. No. 1,408,882; Mar. 7.
- Harris, Hubert E., and L. O. Swaim, assignors of one-third to J. F. Pickard, Atlanta, Ga. Noiseless blower for locomotives. No. 1,416,954; May 23.
- Harris, Hugh H., Alexandria, Va. Collapsible mechanic bench. No. 1,429,587; Sept. 19.
- Harris, Hugh W., Pittsburgh, Pa., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,433,718; Oct. 31.
- Harris, Hugh W., Atlanta, Ga., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,433,517; Oct. 31.
- Harris, Irvin H., Evanston, Wyo. Tunnel ventilator. No. 1,409,545; Mar. 14.
- Harris, Jefferson D., Washington, D. C. Dressing cabinet. No. 1,408,731; Mar. 7.
- Harris, Jesse, assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Maximum-demand wattmeter. No. 1,432,856; Oct. 24.
- Harris, John. (See Rose, J. R., and Harris.)
- Harris, John, Lakewood, Ohio. Blowpipe. No. 1,408,194; Feb. 28.
- Harris, John, Lakewood, Ohio, assignor to Carbo-Oxygen Company, Pittsburgh, Pa. Electrolytic cell. No. 1,420,037; June 20.
- Harris, John, Lakewood, Ohio, assignor of one-half to J. R. Rose, Edgeworth, Pa. Blowpipe. No. 1,424,163; Aug. 1.
- Harris, John, Lakewood, Ohio, assignor to Carbo-Oxygen Company, Pittsburgh, Pa. Blowpipe. No. 1,424,355; Aug. 1.
- Harris, John, Lakewood, Ohio, assignor to Carbo-Oxygen Company, Pittsburgh, Pa. Cutting metals with gaseous fuel. No. 1,425,856; Aug. 15.
- Harris, John, Lakewood, Ohio, assignor of one-half to J. R. Rose, Edgeworth, Pa. Pipe-welding machine. No. 1,434,207; Oct. 31.
- Harris, John, Lakewood, Ohio, assignor of one-half to James R. Rose, Edgeworth, Pa. Gauge. No. 1,437,176; Nov. 28.
- Harris, John H. (See Harris, Edward R., assignor.)
- Harris, John J., New York, N. Y. Reply-card advertising blotter. No. 1,434,009; Oct. 31.
- Harris, John W., Pearsall, Tex. Concrete form. No. 1,432,290; Oct. 17.
- Harris, Joseph B., Cleveland, Ohio. Door-controlling mechanism. No. 1,430,228; Sept. 26.
- Harris, Joseph D., and T. M. Dalgarn, Detroit, Mich. Radiator for motor vehicles. No. 1,432,461; Oct. 17.
- Harris, Joshua C., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Cell-post construction. No. 1,404,024; Jan. 17.
- Harris, Leonard B., Philadelphia, Pa., assignor to Harris Patents Company, New York, N. Y. Stop valve. No. 1,414,357; May 2.
- Harris, Lewis, Benton, Ill. Concrete mold. No. 1,426,866; Aug. 22.
- Harris, Lewis W., Richmond, Ind. Railway-rail lock. No. 1,407,999; Feb. 28.
- Harris, Mary J., Los Angeles, Calif. Multiple flour sieve. No. 1,403,028; Jan. 10.
- Harris, Morris C., San Jose, Calif. Chase rack for printers. No. 1,433,274; Oct. 24.
- Harris, Noah, Indianapolis, Ind. Heel plate. No. 1,426,186; Aug. 15.
- Harris, Oliver H., Moro, Ark. Trap. No. 1,404,606; Jan. 24.
- Harris, Oliver H., Moro, assignor of one-fourth to J. L. Lee, Thomasville, Ark. Animal poke. No. 1,417,245; May 23.
- Harris, Oran P., Richmond, Ind., assignor of one-half to W. M. Parker, Hollandsburg, Ohio. Railway-rail fastening. No. 1,429,033; Sept. 12.
- Harris Patents Company. (See Harris, Leonard B., assignor.)
- Harris, Percival E., et al. (See Harris, Wilfred H., assignor.)
- Harris, Ralph W., Cranford, N. J. Headlight. No. 1,434,383; Nov. 7.
- Harris, Reginald E., et al. (See Harris, Wilfred H., assignor.)
- Harris, Robert E. (See Moore, Charles C., assignor.)
- Harris, Russell W. (See Mueller, F. F., and Harris.)
- Harris, Thaddeus S., Waverly, Ill. Automatic hard and soft water supply plant. No. 1,433,007; Oct. 24.
- Harris, Thomas K. (See Plost, Isaac, assignor.)
- Harris, Vernon J., Adrian, Mich. Valve-tappet-silencing mechanism. No. 1,425,766; Aug. 15.
- Harris, Wilfred H., assignor of one-fifth to A. C. Harris, one-fifth to P. E. Harris, one-fifth to R. E. Harris, and one-fifth to E. F. Harris, Portland, Ore. Combined cupboard and folding table. No. 1,440,010; Dec. 26.
- Harris, William A., assignor of one-half to K. S. Conrad, Greenville, S. C. Tire alarm and gauge. No. 1,411,917; Apr. 4.
- Harris, William A., assignor to The K. S. Conrad Company, Greenville, S. C. Tire alarm and gauge. No. 1,413,531; Apr. 18.
- Harris, William A., assignor to Harris Accessory Company, Greenville, S. C. Low-pressure alarm for pneumatic tires. No. 1,417,168; May 23.
- Harris, William A., Brookline, assignor to The Flintkote Company, Boston, Mass. Built-up roofing. No. 1,427,755; Aug. 29.
- Harris, William H., Indianapolis, Ind. Differential drive mechanism. No. 1,418,565; June 6.
- Harris, William H., Indianapolis, Ind., assignor, by mesne assignments, to The Dayton Securities Company, Dayton, Ohio. Differential drive mechanism. No. 1,414,126; Apr. 25.
- Harris, William H., Indianapolis, Ind., assignor of one-fifth to G. W. Martin, Cincinnati, Ohio. Differential drive mechanism. No. 1,434,778; Nov. 7.
- Harris, William L., Warsaw, Ill. Billiard-table cushion. No. 1,404,119; Jan. 17.
- Harrison, Amos, assignor to Jas. P. Marsh & Company, Chicago, Ill. Water-sealed vacuum and pressure trap. No. 1,425,857; Aug. 15.
- Harrison, Arthur W., Winthrop, Mass., assignor of one-half to H. O. Farrington, Kittery, Me. Mailing blank or sheet. No. 1,405,131; Jan. 31.
- Harrison, Arthur W., Winthrop, Mass., assignor, by mesne assignments, to Porcelain Appliance Corporation, Wilmington, Del. Attaching device. No. 1,427,953; Sept. 5.
- Harrison, Burt S., Brooklyn, assignor to Carrier Engineering Corporation, New York, N. Y. Apparatus for drying materials. No. 1,408,456; Mar. 7.
- Harrison, Burt S., Brooklyn, assignor to Carrier Engineering Corporation, New York, N. Y. Method of and apparatus for drying materials. No. 1,408,457; Mar. 7.
- Harrison, Burt S., assignor to Carrier Engineering Corporation, New York, N. Y. High-temperature heating system. No. 1,408,458; Mar. 7.
- Harrison, Burt S., Brooklyn, assignor to Carrier Engineering Corporation, New York, N. Y. Drying-food products. No. 1,414,275; Apr. 25.
- Harrison, Charles L., assignor of one-third to L. L. Strause, Richmond, Va. Ventilator sash. No. 1,408,732; Mar. 7.
- Harrison, Francis, assignor to The Aladdin Renew Electric Lamp Corporation Limited, London, England. Manufacture of incandescent electric lamps. No. 1,416,197; May 16.
- Harrison, Henry C., Port Washington, assignor to Western Electric Company, Incorporated, New York, N. Y. Submarine signaling. No. 1,409,341; Mar. 14.
- Harrison, John, Malad City, Idaho. Wrench. No. 1,426,985; Aug. 22.
- Harrison, Marion M. (See Morton, H. A., and Harrison.)
- Harrison, Marion M., and H. A. Morton, assignors to The Miller Rubber Company, Akron, Ohio. Manufacturing vulcanized-rubber articles. No. 1,434,892; Nov. 7.
- Harrison, Mary R., Boston, assignor to E. H. Angier, Framington, Mass. Making reinforced receptacles. No. 1,419,048; June 6.
- Harrison, Neblett M. (See Du Bose, M. A., and Harrison.)
- Harrison Radiator Corporation. (See Wolfe, Arthur P., assignor.)
- Harrison, Thomas L., Philadelphia, Pa. Collapsible-tube-closing machine. No. 1,425,961; Aug. 15.
- Harrison, Wilfrid M., Chestnut, England. Method of and means for vaporizing fuel for internal-combustion engines. No. 1,426,187; Aug. 15.
- Harrison, William E., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Telpherage system. No. 1,416,021; May 16.
- Harrison, William H., Raleigh, N. C. Combination reed hook and knife. No. 1,411,020; Mar. 28.
- Harrison, William H., Brooklyn, N. Y. Cage perch. No. 1,425,524; Aug. 15.

Alphabetical list of patentees—Continued.

- Harrison, William H., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Testing and adjusting apparatus for cord circuits. No. 1,428,631; Sept. 12.
- Harriss, James B., Newark, N. J. Launching and landing of aeroplanes. No. 1,428,163; Sept. 5.
- Harrold, George, Los Angeles, Calif. Adjustable curtain for wind shields. No. 1,410,529; Mar. 21.
- Harry, Albert J., East Cleveland, Ohio. Method and apparatus for treating saws with heat. No. 1,429,138; Sept. 12.
- Harry, Robert J., Munhall, and C. S. Proudfoot, Johnstown, Pa. Crane trolley. No. 1,430,009; Sept. 26.
- Harsel, William B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Apparatus for making tire beads. No. 1,406,855; Feb. 14.
- Harsel, William B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Stitching device. No. 1,426,867; Aug. 22.
- Harsel, William B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Stitcher roll. No. 1,438,158; Dec. 5.
- Harsel, William B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Mold-cutting mechanism. No. 1,438,159; Dec. 5.
- Harsel, William B., and R. B. Day, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Tension device. No. 1,419,049; June 6.
- Harsh, Herbert, et al. (See Tallman, Albert R., assignor.)
- Harsh, Herbert, Jacksonville, Fla. Display rack. No. 1,436,250; Nov. 21.
- Harsha, Horatio P., Detroit, Mich. Game apparatus. No. 1,416,556; May 16.
- Harshberger, Norman P., assignor to Tee-Lok Shingle Company, Chicago, Ill. Shingle. No. 1,410,299; Mar. 21.
- Harshberger, Russell P., Chicago, Ill. Safety razor. No. 1,404,693; Jan. 24.
- Harshman, Clyde. (See Britten, William M., assignor.)
- Harsley, John W., and M. F. Appar, New York, N. Y. Spring compressor. No. 1,436,393; Nov. 21.
- Hartsough, Walter W., San Francisco, Calif. Ditching machine. No. 1,411,999; Apr. 4.
- Hart, Albert J., assignor of three-fourths to E. E. Kline, W. R. Wright and E. N. Hunt, Cromwell, Ind. Combination tool. No. 1,421,220; June 27.
- Hart, Alvin L., San Diego, Calif., assignor of one-half to C. Lewinson. Copyholder for typewriters. No. 1,437,841; Dec. 5.
- Hart, Cyril E., et al. (See Baker, Frederick, assignor.)
- Hart, David A., assignor to Reliance Manufacturing Co., Providence, R. I. Buckle. No. 1,416,290; May 16.
- Hart, Fred V., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Device for forming heel lifts. No. 1,411,351; Apr. 4.
- Hart, Frederick A., New Britain, Conn., assignor to Remington Accounting Machine Corporation, New York, N. Y. Calculating machine. No. 1,414,639; May 2.
- Hart, Fredrick D., Stockton, Calif. Scraper. No. 1,412,940; Apr. 18.
- Hart, George H., Hartford, Conn. Electric switch. No. 1,408,999; Mar. 7.
- Hart, George H., Hartford, Conn. Electric switch. No. 1,430,645; Oct. 3.
- Hart, Gerald W., West Hartford, assignor to The Hart Manufacturing Company, Hartford, Conn. Electric range. No. 1,435,468; Nov. 14.
- Hart, Harry S., Chicago, Ill. Shock-indicating means for draft rigging. No. 1,412,737; Apr. 11.
- Hart, Harry S., assignor to National Dump Car Co., Chicago, Ill. Dump car. No. 1,425,767; Aug. 15.
- Hart, Howard J., Hampton, Iowa. Can scoop. No. 1,410,568; Mar. 28.
- Hart, Ira B., assignor to The Recip-Roto Engine Company, St. Louis, Mo. Rotary pump and engine. No. 1,408,292; Feb. 28.
- Hart, John C., Nilwood, Ill. Gate. No. 1,413,403; Apr. 18.
- Hart, John O., Cincinnati, Ohio. Safety brake device for vehicles. No. 1,433,132; Oct. 24.
- Hart, John P., Los Angeles, Calif. Collapsible camping or picnic cabinet. No. 1,437,756; Dec. 5.
- Hart, Joseph L., Chickasha, Okla. Cotton machinery. No. 1,428,434; Sept. 5.
- Hart Manufacturing Company, The. (See Hart, Gerald W., assignor.)
- Hart, Max G., Elyria, Ohio. Double cushioned shoe heel or lift. No. 1,422,854; July 18.
- Hart Mfg. Company, The. (See Smart, Ezra E., and Gates, assignors.)
- Hart Roller Bearing Company, The. (See Darby, George A., assignor.)
- Hart, Schaffner & Marx. (See Johnson, J. M., and Gottschall, assignors.)
- Hart, Seth, assignor to Adjustable & Reversible Propeller Corporation, Los Angeles, Calif. Adjustable and reversible propeller. No. 1,403,775; Jan. 17.
- Hart, Sidney H., assignor of fifteen one-hundredths to C. G. Hensley, Brooklyn, N. Y. Explosive engine. No. 1,410,752; Mar. 28.
- Hart, Stanley M., et al. (See Bowen, J. W., Hart, and Bowen.)
- Hart, Thomas F., assignor to Hamel Shoe Machinery Company, Lynn, Mass. Machine for making reinforced innersoles. No. 1,412,521; Apr. 11.
- Hart, Thomas H., Boston, Mass. Cover for receptacles. No. 1,419,850; June 13.
- Hart, Thomas J., Corning, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Plate valve. No. 1,416,637; May 16.
- Hart, Walter H., assignor to The Stanley Works, New Britain, Conn. Folding rule. No. 1,438,234; Dec. 12.
- Hart, Walter H., and D. Gould, assignors to The Stanley Works, New Britain, Conn. Folding rule. No. 1,438,235; Dec. 12.
- Hart, Walter H., and D. Gould, assignors to The Stanley Works, New Britain, Conn. Folding rule. No. 1,438,236; Dec. 12.
- Hart, Walter V., assignor to S. F. Williams, Jacksonville, Fla. Gate. No. 1,426,474; Aug. 22.
- Hart, William, South Barre, Mass. Attachment for worsted to finishers. No. 1,433,275; Oct. 24.
- Hart, William K., jr. (See Forster, John J., assignor.)
- Hart & Hegeman Manufacturing Company, The. (See Guett, Monroe, assignor.)
- Harte, Herbert M., Manchester, England. Pencil sharpener. No. 1,402,351; Jan. 3.
- Harte, Herbert M., Manchester, England. Pencil sharpener. No. 1,405,210; Jan. 31.
- Harte, Roy H., Quincy, Ill. Coupling link. No. 1,433,133; Oct. 24.
- Harter, Charles, assignor of one-half to John E. O'Brien, St. Louis, Mo. Closure for front ends of locomotives. No. 1,407,858; Feb. 28.
- Harter, Charles C., Marshalltown, Iowa. Shingle holder. No. 1,410,060; Mar. 21.
- Harter, Emile, Paris, France. Heat-exchange apparatus. No. 1,403,319; Jan. 10.
- Harter, Emile, Paris, France. Radiator for explosion engines. No. 1,421,221; June 27.
- Harter, Isaac Dongan Hills, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Accessory for steam boilers. No. 1,412,865; Apr. 18.
- Harter, Marion H., Minneapolis, Minn. Cotter-pin puller. No. 1,422,201; July 11.
- Harter, Noah S., Waukegan, Ill., assignor to Cyclone Fence Company, Clutch. No. 1,437,243; Nov. 28.
- Harter, Noah S., Waukegan, Ill., assignor to Cyclone Fence Company. Winding drum. No. 1,438,176; Dec. 12.
- Hartford-Fairmont Company. (See Ferngren, Enoch T., assignor.)
- Hartford-Fairmont Company. (See Lorenz, E. H., and Peiler, assignors.)
- Hartford-Fairmont Company. (See Mulholland, Vergil, assignor.)
- Hartford-Fairmont Company. (See Peiler, Karl E., assignor.)
- Hartford Rubber Works Company, The. (See Lough, Hector V., assignor.)
- Hartford Rubber Works Company, The. (See Hopkinson, E., and Lough, assignors.)
- Harthan, John. (See Von Bichewski, F., and Harthan.)
- Harthun, William F., Newport, Ky. Recording and exhibiting device. No. 1,414,406; May 2.
- Hartig, Henry J., Brooklyn, N. Y. Cylinder-boring device. No. 1,404,203; Jan. 24.
- Hartin, Robert C., San Diego, Calif., assignor of one-third to D. H. Biles and one-third to C. F. Ryer, Prescott, Ariz. Jack-hammer shank and collar machine. No. 1,437,653; Dec. 5.
- Hartleb, Rudolph C., Cambridge, assignor of one-half to E. Reiner, Baltimore, Md. Fish scaler. No. 1,424,722; Aug. 1.
- Hartleb, Rudolph C., and T. J. Ivey, assignors to The Cambridge Mechanical Toy Co., Cambridge, Md. Figure wheeled toy. No. 1,403,776; Jan. 17.
- Hartley, Calvin G., Roanoke, Ind., assignor to Knox Engineering and Manufacturing Company. Governor for tractor engines. No. 1,409,170; Mar. 14.
- Hartley, James, Philadelphia, Pa. Railway spike. No. 1,425,199; Aug. 8.
- Hartley, James P., Chattanooga, Tenn. Waste chute. No. 1,416,022; May 16.
- Hartley, Joseph S. (See Robbins, F. M., and Hartley.)
- Hartley, Paul, Brooklyn, N. Y. Manicure file. No. 1,430,646; Oct. 3.
- Hartley, Ralph V. L., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Modulator or detector. No. 1,410,562; June 13.
- Hartley, William R., New Haven, Conn. Knockdown metal shipping case. No. 1,424,723; Aug. 1.
- Hartline, Winfield E., Canton, Ohio. Cuspitor. No. 1,427,809; Sept. 5.
- Hartman, Carl R., Mount Vernon, N. Y. Vegetable cutter and crusher. No. 1,419,499; June 13.
- Hartman, Edward, sr., Dover, N. J. Broom holder. No. 1,435,842; Nov. 14.
- Hartman Electrical Manufacturing Company, The. (See Hartman, Frank O., assignor.)
- Hartman, Elles E., East Jordan, Mich. Vending machine. No. 1,429,505; Sept. 19.
- Hartman, Frank O., and C. T. Anderson, Mansfield, Ohio. Specific-gravity device. No. 1,424,403; Aug. 1.

Alphabetical list of patentees—Continued.

- Hartman, Frank O., assignor to The Hartman Electrical Manufacturing Company, Mansfield, Ohio. Circuit-controlling mechanism. No. 1,424,402; Aug. 1.
- Hartman, Frank O., assignor to The Hartman Electrical Manufacturing Company, Mansfield, Ohio. Power system. No. 1,424,404; Aug. 1.
- Hartman, Harry B., assignor to Electric Water Sterilizer and Ozone Company, Scottsdale, Pa. Ozone generator. No. 1,423,658; July 25.
- Hartman, Harry B., assignor to Electric Water Sterilizer and Ozone Company, Scottsdale, Pa. Pressure mixing device for raw water and ozone. No. 1,430,303; Sept. 26.
- Hartman, Harry B., assignor to Electric Water Sterilizer & Ozone Company, Scottsdale, Pa. Ozone generator. No. 1,436,251; Nov. 21.
- Hartman, Harry B., assignor to Electric Water Sterilizer & Ozone Company, Scottsdale, Pa. Ozone generator. No. 1,437,302; Nov. 28.
- Hartman, Harry C., Braddyville, Iowa. Honeycomb frame. No. 1,411,094; Mar. 28.
- Hartman, Louis H. (See Riffe, J. B., & Hartman.)
- Hartman, Louis H., assignor to The Valve Bag Company, Toledo, Ohio. Bag-filling machine. No. 1,419,627; June 13.
- Hartman, Milton, Detroit, Mich. Combined addressing and listing device. No. 1,425,768; Aug. 15.
- Hartman, Noble W., Toledo, Ohio, assignor to General Electric Company. Glassworking mechanism. No. 1,408,000; Feb. 28.
- Hartman, Ralph J., Toledo, Ohio. Combined shoe polisher and brush. No. 1,437,177; Nov. 28.
- Hartman, Richard A., assignor to H. S. & S. Manufacturing Co., Hartford, Conn. Universal joint. No. 1,424,299; Aug. 1.
- Hartman, William H., Philadelphia, Pa., assignor to Pennsylvania Crusher Company, New York, N. Y. Hammer crusher. No. 1,422,761; July 11.
- Hartman, William W. (See Clarke, H. T., and Hartman.)
- Hartman, William W., Los Angeles, Calif. Regulatable sugar-washing apparatus. No. 1,439,676; Dec. 19.
- Hartmann, Charles A., San Antonio, Tex. Motor-vehicle headlight-deflector device. No. 1,440,292; Dec. 26.
- Hartmann, Johannes, Cassel, Germany. Inserted-joint ceiling. No. 1,414,332; Apr. 25.
- Hartmann, Max, and M. Seiberth, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Dialkylamides of nicotinic acid and making same. No. 1,403,117; Jan. 10.
- Hartmann, Max, and H. Kägi, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Derivatives of dihydroisoquinoline. No. 1,437,802; Dec. 5.
- Hartnett, John F., assignor to The Warner Brothers Company, Bridgeport, Conn. Loop for hose supporters and the like. No. 1,421,222; June 27.
- Hartog, Stephen D., St. Louis, Mo. Elbow fitting for engines. No. 1,412,055; Apr. 11.
- Hartog, Stephen D., St. Louis, Mo. Piston for hydrocarbon engines. No. 1,430,010; Sept. 26.
- Hartrick, George, Oak Park, assignor to Carson, Pirie, Scott and Company, Chicago, Ill. Cash-sales book. No. 1,429,873; Sept. 19.
- Hartshorn, Willis N., Racine, Wis. Refining machine. No. 1,404,851; Jan. 31.
- Hartshorne & Battelle. (See Evans, Fred, assignor.)
- Hartstra, Johannes, Grand Rapids, Mich. Weather strip. No. 1,429,203; Sept. 12.
- Hartung, Edmund, Jersey City, N. J. Butter-cutting machine. No. 1,430,078; Sept. 26.
- Hartwick, Louis M., and P. J. Brown; said Hartwick assignor of his entire right to The Frazier-Sheal Company, Cleveland, Ohio. Hot-blast stove. No. 1,416,198; May 16.
- Hartwig, William G., assignor to A. Frantzen, Chicago, Ill. Mechanical operating connection. No. 1,412,283; Apr. 11.
- Hartwig, William J. (See Cullin, Jasper F., assignor.)
- Hartzell, Forest H., Dayton, Ohio. Commutator for electric motors. No. 1,410,914; Mar. 28.
- Hartzell, Noble M., Philadelphia, Pa. Furnace. No. 1,414,276; Apr. 25.
- Hartzell, William N., and H. A. Weiss, Butler, Pa. Garment hanger. No. 1,421,003; June 27.
- Harvat, John, Eastman, Wis. Combined thrasher and clover huller. No. 1,416,820; May 23.
- Harvey, Albert L., Braddock Township, Allegheny County, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch box. No. 1,404,852; Jan. 31.
- Harvey, Albert L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,406,376; Feb. 14.
- Harvey, Albert L., Braddock Township, Allegheny County, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,406,377; Feb. 14.
- Harvey, Albert L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,412,522; Apr. 11.
- Harvey, Albert L., Braddock Township, Allegheny County, Pa., assignor to Westinghouse Electric & Manufacturing Company. Clamping device. No. 1,414,407; May 2.
- Harvey, Albert L., Bradford Township, Allegheny County, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,414,408; May 2.
- Harvey, Albert L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,414,409; May 2.
- Harvey, Albert L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,425,646; Aug. 15.
- Harvey, Albert L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,425,647; Aug. 15.
- Harvey, Albert L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,425,649; Aug. 15.
- Harvey, Albert L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,435,230; Nov. 14.
- Harvey, Birdie, Dallas, Tex. Electric hairbrush. No. 1,436,957; Nov. 28.
- Harvey, Charles J., Kidderminster, England. Walking mechanism for toys and other articles. No. 1,430,371; Sept. 26.
- Harvey, Clarence R., Bend, Oreg. Spring bed. No. 1,414,277; Apr. 25.
- Harvey, Corbion L., and F. O. Mueller, St. Louis, Mo., assignors, by mesne assignments, to Burroughs Adding Machine Company. Calculating machine. No. 1,440,145; Dec. 26.
- Harvey, Edward H., assignor to F. X. Gorley, St. Louis, Mo. Bouquet carrier. No. 1,436,036; Nov. 21.
- Harvey Frost and Company Limited. (See Morriss, Harry E., assignor.)
- Harvey Frost & Company. (See Welch, Walter H., assignor.)
- Harvey, George E., Buffalo, N. Y., assignor to Harvey Rim & Wheel Company. Disk wheel. No. 1,420,097; June 20.
- Harvey, George E., assignor to Harvey Rim & Wheel Company, Buffalo, N. Y. Disk-wheel construction. No. 1,427,209; Aug. 29.
- Harvey, Harry D. (See Martin, James V., assignor.)
- Harvey, Henry, Chicago, Ill. Lining for chimneys and open fireplaces. No. 1,416,350; May 16.
- Harvey, Herschel, Macon, Ga. Combined bottle stopper and measuring device. No. 1,402,604; Jan. 3.
- Harvey, Leonard C., county of Surrey, England. Furnace. No. 1,416,406; May 16.
- Harvey, Louis B., assignor to Harvey Rim & Wheel Company, Inc., Buffalo, N. Y. Driving means for demountable rims. No. 1,412,111; Apr. 11.
- Harvey, Ralph, and A. Holmes, assignors to Harland and Wolff, Limited, Glasgow, Scotland. Furnace for locally heating metals. No. 1,407,412; Feb. 21.
- Harvey Rim & Wheel Company. (See Harvey, George E., assignor.)
- Harvey Rim & Wheel Company. (See Harvey, Louis B., assignor.)
- Harvey Rim & Wheel Company Inc. (See Reid, F. G., and Allison, assignors.)
- Harvey, Thomas W. (See Houghton, J. W., and Harvey.)
- Harvey, Thomas W., Huntington, W. Va. Garment rack. No. 1,409,852; Mar. 14.
- Harvey, William A., Scranton, Pa. Combined resistance element and regulator. No. 1,409,948; Mar. 21.
- Harvey, William A., Scranton, Pa. Electric fixture. No. 1,434,010; Oct. 31.
- Harvey, William A., Scranton, Pa. Portable electric lamp. No. 1,438,826; Dec. 12.
- Harvey, William F., Toronto, Ontario, Canada. Display box. No. 1,416,465; May 16.
- Harvin, Arthur L., Washington, D. C. Method and means for treating and filling tooth cavities and nerve canals. No. 1,417,379; May 23.
- Harwood, Clark, Newton, Mass. Trimming pompons and machine therefor. No. 1,430,737; Oct. 3.
- Harwood, George S., & Son. (See Howe, Joseph B., assignor.)
- Harwood, Leon M., Springfield, Mass. Apparatus for cutting metallic leaf. No. 1,437,803; Dec. 5.
- Hasait, Max, Dresden, Germany, assignor to Aktiebolaget Ars, Stockholm, Sweden. Track rail for curved stage scenes. No. 1,435,390; Nov. 14.
- Hasbrouck, Stephen A., New Haven, Conn. Fuel injector. No. 1,418,566; June 6.
- Hasburg, John W., Chicago, Ill. Paint package. No. 1,427,288; Aug. 29.
- Hasburg, John W., Chicago, Ill. Paint package. No. 1,427,289; Aug. 29.
- Hasburg, John W., Chicago, Ill. Paint package. No. 1,427,290; Aug. 29.
- Hascall, Allan H., Newark, N. J. Lifting jack for the side cars of motor cycles. No. 1,431,303; Oct. 10.
- Inse, Takobe, San Francisco, Calif. Rubber collar. No. 1,414,640; May 2.
- Haseltine, Ernest D., Co. (See Armstrong, Oscar F.)
- Haseltine, William E., Ripon, Wis. Antiglare device for motor vehicles. No. 1,429,034; Sept. 12.
- Haseltine, William E., Ripon, Wis. Drier. No. 1,439,702; Dec. 26.
- Hasemier, Ralph E., Shreveport, La. Shock absorber for vehicles. No. 1,421,223; June 27.
- Hasemier, Ralph E., Kokomo, Ind. Shock absorber for vehicles. No. 1,424,475; Aug. 1.
- Haskel, Fred, Detroit, Mich. Universal card holder. No. 1,405,915; Feb. 7.
- Haskel, Fred, Detroit, Mich. Card holder. No. 1,417,319; May 23.

Alphabetical list of patentees—Continued.

- Haskel, Fred, Detroit, Mich. Two-piece pulley construction. No. 1,422,263; July 11.
- Haskelite Manufacturing Corporation. (See Elmendorf, Armin, assignor.)
- Haskelite Manufacturing Corporation. (See Haskell, Henry L., assignor.)
- Haskelite Manufacturing Corporation. (See Meyercoed, George R., assignor.)
- Haskell, Henry L., Ludington, Mich., assignor to Haskelite Manufacturing Corporation. Wooden insole. No. 1,411,021; Mar. 28.
- Haskell, James B., assignor to The American Frog & Switch Company, Hamilton, Ohio. Switch stand. No. 1,434,658; Nov. 7.
- Haskell, John D. (See Baker, H. T., and Haskell.)
- Haskell, Samuel, Brooklyn, N. Y. Mechanical doll. No. 1,415,344; May 9.
- Haskell, Samuel, Brooklyn, N. Y. Shimmy doll. No. 1,422,855; July 18.
- Haskell, Walter F., Portland, Me. Warp-dyeing machine. No. 1,402,765; Jan. 10.
- Haskell, William E., Los Angeles, Calif. Map holder. No. 1,429,874; Sept. 19.
- Haskett, John C., and C. A. Stubbs, Spiceland, Ind. Intake-manifold mixing device. No. 1,410,915; Mar. 28.
- Haskin, Joseph J., Stockton, assignor of one-half to T. H. Roscoe, Alameda, Calif. Combination lock. No. 1,407,273; Feb. 21.
- Haskin, Joseph J., Stockton, Calif. Vehicle wheel. No. 1,428,229; Sept. 5.
- Haskins, Butler J., Kansas City, Mo. Cadmium test device. No. 1,426,868; Aug. 22.
- Haskins, Frances M., New York, N. Y. Baby exerciser. No. 1,426,063; Aug. 15.
- Haskins, Harry C., New York, N. Y. Convertible vehicle body. No. 1,432,244; Oct. 17.
- Haskins, Harry T., Denver, Colo. Contact brush for timers. No. 1,425,200; Aug. 8.
- Haslam, Alfred S., Derby, England. Fluid compressor. No. 1,408,593; Mar. 7.
- Hasselt, Oscar S., Jersey City, N. J. Speed indicator and signal. No. 1,420,314; June 20.
- Hasley, Andreas M., Randers, Denmark. Retarded electromagnetic switch. No. 1,422,702; July 11.
- Hasper, Charles, Bridgeport, Ohio. Hatpin guard. No. 1,409,714; Mar. 14.
- Hass, Gustav C., assignor to Crowe Name Plate & Engraving Co., Chicago, Ill. Plate-securing device. No. 1,404,521; Jan. 24.
- Hasse, Frank C., Congress Park, assignor to The Oxweld Railroad Service Company, Chicago, Ill. Case for pressure gauges. No. 1,435,922; Nov. 21.
- Hassel, Nels H., Los Angeles, Calif. Plant protector. No. 1,423,659; July 25.
- Hasselberg, Jens. (See McLarty, John, assignor.)
- Hasselberger, John, East Hampton, N. Y. Painting machine. No. 1,426,986; Aug. 22.
- Hasselblatt, Paul A., Rockville, Md. Music-sheet holder and turner. No. 1,409,171; Mar. 14.
- Hasselquist, Hugo S., assignor to Autopoint Pencil Company, Chicago, Ill. Pocket clip. No. 1,406,378; Feb. 14.
- Hasselquist, Hugo S., Oak Park, assignor to Collins Rotary Safety Razor Company, Chicago, Ill. Centrifugal governor. No. 1,407,413; Feb. 21.
- Hasselquist, Hugo S., assignor, by mesne assignments, to C. B. Collins, Oak Park, Ill. Razor-blade guard and face plate. No. 1,416,199; May 16.
- Hassig, Arnold, Detroit, Mich. Flower box. No. 1,420,191; June 20.
- Hassler, Hugh H., Montgomery City, Mo. Ice-cream tongs. No. 1,431,792; Oct. 10.
- Hassler, Robert H., Indianapolis, Ind. Shock absorber. No. 1,420,098; June 20.
- Hassler, Robert H., Indianapolis, Ind. Shock-absorbing device for vehicles. No. 1,424,902; Aug. 8.
- Hast, Charles H., McLoud, Okla. Road-working machine. No. 1,437,654; Dec. 5.
- Hastey, James A., St. Louis, Mo. Conductor's equipment case. No. 1,404,368; Jan. 24.
- Hastie, Thomas H. (See Rouch, J. A., and Hastie.)
- Hastings, Charles B., New York, N. Y. Loading and unloading apparatus. No. 1,423,765; July 25.
- Hastings, Cornelius G., Glendale, Calif. Tunneling device. No. 1,413,729; Apr. 25.
- Hastings, Frank H., St. Johnsbury, Vt. Door latch. No. 1,432,599; Oct. 17.
- Hastings, H. Gibson, et al. (See Anderson, Roy H., assignor.)
- Hastings, Harry O., San Francisco, Calif. Razor-blade holder and stropping device. No. 1,428,164; Sept. 5.
- Hastings, Herbert J., and C. S. Smith, East Twickenham, England. Mechanical toy operated by gramophones. No. 1,424,015; July 25.
- Hastings, Robert B., Pittsburgh, Pa. Automobile lock. No. 1,406,854; Feb. 14.
- Hastings, Rolland T. R. (See Poppenhusen, H. A., and Hastings.)
- Hasty, John B., San Bernardino, Calif., assignor to Lovejoy Tool Works, Chicago, Ill. Jack. No. 1,427,459; Aug. 29.
- Haswell, John C., et al., trustees. (See Neal, Joseph A., assignor.)
- Hatakeyama, Sakushiro, assignor of one-half to C. Funai, Kobe, Japan. Manufacturing watches without heads. No. 1,434,893; Nov. 7.
- Hatano, Ihachi, Kimitsu-Gun, Chiba-Ken, Japan. Pilot compartment for aeroplanes. No. 1,407,414; Feb. 21.
- Hatashita, Sezo, and J. G. Winsor, Detroit, Mich. Trailer. No. 1,409,294; Mar. 14.
- Hatashita, Sezo, Detroit, Mich. Automobile fender. No. 1,438,177; Dec. 12.
- Hatch, Arthur G., Duluth, Minn. Saddle for reenforcing bars. No. 1,406,379; Feb. 14.
- Hatch, Arthur G., Duluth, Minn. Rolling apparatus for making building blocks. No. 1,406,856; Feb. 14.
- Hatch, Arthur G., Duluth, Minn. Building block. No. 1,408,733; Mar. 7.
- Hatch, Arthur G., Duluth, Minn. Building construction. No. 1,408,734; Mar. 7.
- Hatch, Arthur G., Duluth, Minn. Concrete block. No. 1,412,686; Apr. 11.
- Hatch, Arthur G., Duluth, Minn. Floor construction. No. 1,415,554; May 9.
- Hatch, Arthur G., Duluth, Minn. Apparatus for making concrete bricks. No. 1,425,590; Aug. 15.
- Hatch, Arthur G., Duluth, Minn. Apparatus for making building blocks. No. 1,437,303; Nov. 28.
- Hatch, Edward, deceased, by F. A. Douty, Portland, Oreg., assignee; said Douty assignor to A. J. Gerrard, Chicago, Ill. Bundling machine. (Reissue.) No. 15,486; Nov. 7.
- Hatch, Edward W., Boston, Mass. Fire-extinguisher bracket. No. 1,437,303; Nov. 28.
- Hatch, Herbert F., Newton, Mass. Golf-club separator. No. 1,417,380; May 23.
- Hatch, Hyatt C. (See Parks, F. M., and Finch, assignors.)
- Hatch, Jessie P., Asheville, N. C. Garment hanger. No. 1,437,655; Dec. 5.
- Hatch, Nathan, Albany, N. Y. Combination garment. No. 1,439,100; Dec. 19.
- Hatch, Raymond M., Trumansburg, N. Y. Nut lock. No. 1,416,292; May 16.
- Hatch, William A. (See Chilcote, A. A., Hatch, and Hays.)
- Hatcher, Charles M., Oakland, assignor of one-half to J. L. Ross, Redwood City, Calif. Milk-bottle holder. No. 1,408,195; Feb. 28.
- Hatcher, Oscar M., Mankato, Minn. Traffic director. No. 1,439,101; Dec. 19.
- Hatcher, Oscar M., and J. C. Campbell, Mankato, Minn. Extension steering device. No. 1,417,320; May 23.
- Hatcher, Wade H., Stuart, Va. Spark conductor. No. 1,425,473; Aug. 8.
- Hatcher, William A., assignor to Crescent Pump Company, Detroit, Mich. Chuck. No. 1,408,594; Mar. 7.
- Hatcher, William A., Detroit, assignor to Wernicke-Hatcher Pump Company, Grand Rapids, Mich. Rotary pump. No. 1,428,691; Sept. 12.
- Hatcher, William A., Detroit, assignor to Wernicke-Hatcher Pump Company, Grand Rapids, Mich. Rotary pump. No. 1,431,793; Oct. 10.
- Hatcher, William A., Detroit, assignor to Wernicke-Hatcher Pump Company, Grand Rapids, Mich. Rotary pump. No. 1,431,794; Oct. 10.
- Hatchett, Marvin P., Durant, Okla. Heating apparatus. No. 1,415,345; May 9.
- Hatfield, Abel S., Wheeling, W. Va. Alloy metal. No. 1,434,246; Oct. 31.
- Hatfield, Floyd H., Rawlins, Wyo. Casing swage. No. 1,422,762; July 11.
- Hatfield, John, Brooklyn, N. Y. Spring-supporting mechanism for spring wheels. No. 1,421,224; June 27.
- Hatfield, Percy W. (See Tucker, L. M., and Hatfield.)
- Hatfield, Schuyler C., Baltimore, Md. Elastic wheel. No. 1,410,300; Mar. 21.
- Hathaway, Charles H., West Allis, assignor to Badger Manufacturing Corporation, Milwaukee, Wis. Clamp. No. 1,416,351; May 16.
- Hathaway, Charles H., West Allis, and W. A. Starck, assignors to Badger Manufacturing Corporation, Milwaukee, Wis. Automobile bumper. No. 1,404,607; Jan. 24.
- Hathaway, Charles H., West Allis, and W. A. Starck, assignors to Badger Manufacturing Corporation, Milwaukee, Wis. Bumper support. No. 1,426,565; Aug. 22.
- Hathaway, Edgar F., Dorchester, Mass., assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Stopping mechanism for textile machinery. No. 1,419,731; June 13.
- Hatheway, George L., New York, N. Y., assignor to The Rattan Mfg. Co., New Haven, Conn. Squeeze connector. No. 1,425,382; Aug. 8.
- Hatheway, Woodson J., Stanberry, Mo. Foot accelerator. No. 1,436,167; Nov. 21.
- Hathorne, Sherman A., Waukegan, assignor to Chicago Hardware Foundry Company, North Chicago, Ill. Butter cutter and the like. No. 1,413,223; Apr. 18.
- Hatt, Joseph A. H., New York, N. Y. Photoprocess screen and preparing same. No. 1,407,029; Feb. 21.
- Hatton, Philip R., et al. (See Marion, Frank, assignor.)
- Hatzfeld, August R. (See Stewart, O. V., and Hatzfeld.)
- Hatzung, Alexander, assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Display card. No. 1,407,792; Feb. 28.
- Hauber, Alois J., St. Marys, Pa. Shingle. No. 1,434,116; Oct. 31.

Alphabetical list of patentees—Continued.

- Hauber, Mathias, jr. (See Meadows, T. C., Hauber, and Charlton.)
- Haubold, C. G., Aktiengesellschaft. (See Lehner, Alfred, assignor.)
- Haubrich, Alexander M., Chicago, Ill., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Electromagnetic relay device. No. 1,432,691; Oct. 17.
- Hauck, Bernard K., Cincinnati, Ohio, assignor to Spotswood Specialty Co., Lexington, Ky. Aerial toy. No. 1,408,001; Feb. 28.
- Hauck, Bernard K., Cincinnati, Ohio, assignor to F. D. Spotswood, Lexington, Ky. Advertising novelty. No. 1,419,136; June 13.
- Hauck, Fred N. (See Reinsmith, George, assignor.)
- Hauenstein, Julius, Jersey City, N. J. Double-acting self-closing door device. No. 1,439,703; Dec. 26.
- Hauf, George F. (See Naylor, C. G., and Hauf.)
- Hauf, George F., Chicago, Ill., assignor to Robertson Brothers Manufacturing Company. Expressing apparatus. No. 1,410,301; Mar. 21.
- Haug, Anton J., assignor to Improved Paper Machinery Company, Nashua, N. H. Method of and apparatus for draining a moist web in paper making. No. 1,405,211; Jan. 31.
- Haug, Thaddeus L. E., Berkeley, Calif. Service bolt for fastening structural work. No. 1,404,955; Jan. 31.
- Haugh, Harry, Anderson, Ind. Adjustable mounting board. No. 1,439,815; Dec. 26.
- Haugh, Thomas M., L. C. Schilling, and J. W. Finch, assignors to The Eastern Malleable Iron Company, New Britain, Conn. Automatic poker. No. 1,422,442; July 11.
- Haughey, Rodger F., McKeesport, assignor to Jones & Laughlin Steel Company, Pittsburgh, Pa. Lap-weld-tube apparatus. No. 1,438,237; Dec. 12.
- Haughton Elevator & Machine Co., The. (See Ohler, Frank L., assignor.)
- Haughton Elevator & Machine Co., The. (See Thurston, Ernest B., assignor.)
- Haughton, James, Vancouver, British Columbia, Canada. Back-viewing mirror for automobiles. No. 1,424,405; Aug. 1.
- Haughton, James E., and G. Berry, Manchester, England. Shuttle for looms for weaving. No. 1,426,188; Aug. 15.
- Haugwitz, Rudolf, Friedrichshafen, near Berlin, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Azo dyes. No. 1,405,687; Feb. 7.
- Haugwitz, Rudolf, Friedrichshafen, near Berlin, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Orthooxyazo dye. No. 1,419,500; June 13.
- Hauk, Charles, jr., New York, N. Y. Dry-mop holder. No. 1,434,288; Oct. 31.
- Haumann, George, Cleveland, Ohio, assignor, by mesne assignments, to The Urban Machine and Tool Company, Lathe. No. 1,417,521; May 30.
- Haumerson, Anton F., assignor to Pounder Harrow Company, Port Atkinson, Wis. Combined merry-go-round and teeter board. No. 1,421,468; July 4.
- Haun, Edgar T., Gilroy, Calif. Bowlder grabber. No. 1,439,549; Dec. 19.
- Haupt, Charles H., Elizabeth, N. J., assignor, by mesne assignments, to Standard Development Company, New York, N. Y. Tank-car outlet valve. No. 1,439,415; Dec. 19.
- Haupt, Mathias, Roscoe, Minn. Snowplow. No. 1,421,225; June 27.
- Haupt, Wenzel, New York, N. Y. Helicopter. No. 1,414,410; May 2.
- Haupt, William F., Orange, assignor of one-half to C. S. A. Williams, South Orange, N. J. Thread-spinning machine. No. 1,407,793; Feb. 28.
- Hauptmeyer, Friedrich, Essen, Germany. Nerve extracting needle for dental purposes or the like. No. 1,402,229; Jan. 3.
- Hauptmeyer, Friedrich, Essen, Germany. Material for artificial internal members of the human body. No. 1,421,776; July 4.
- Hauptmeyer, Friedrich, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Stamp for thin sheet-metal plates such as dental plates and the like. No. 1,424,406; Aug. 1.
- Hauser, Alois, and M. T. Lothrop, assignors to The Timken Roller Bearing Company, Canton, Ohio. Rotary stamping device. No. 1,429,944; Sept. 26.
- Hauser, Frederick, San Francisco, Calif. Sash frame. No. 1,420,099; June 20.
- Hauser, Frederick, San Francisco, Calif. Ventilator for metallic sash frames. No. 1,420,100; June 20.
- Hauskama, Albert J., Butte, Mont. Tack holder. No. 1,403,408; Jan. 10.
- Hausler, Simon, San Francisco, Calif. Saw-filing device. No. 1,409,442; Mar. 14.
- Hausman, Walter J., St. Louis, Mo., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,416,023; May 16.
- Hausmann, Charles, assignor to Herman Kohlbusch Sr. Inc., Jersey City, N. J. Scales. No. 1,428,165; Sept. 5.
- Hausmann, John F., Milwaukee, Wis. Internal-combustion engine. No. 1,402,494; Jan. 3.
- Hautgen, Fernand E., Paris, France. Change-speed gear. No. 1,413,114; Apr. 18.
- Hauter, William B., assignor to A. F. Meyer Mfg. Co., Morton, Ill. Grain elevator. No. 1,437,415; Dec. 5.
- Hauton Corporation, The. (See Hauton, Paul S., assignor.)
- Hauton, Paul S., Elizabeth, N. J., assignor to The Hauton Corporation, Calendar. No. 1,439,736; Dec. 26.
- Havasy, Louis, Los Angeles, Calif. Artificial-fiber-wood construction. No. 1,407,747; Feb. 28.
- Haven, Hiram L., Lexington, Mass. Collapsible arbor. No. 1,427,155; Aug. 29.
- Haven, Walter S., Racine, Wis. Steam or vapor heating system. No. 1,406,556; Feb. 14.
- Havener, Arthur R., Wayland, Mass., assignor to Judson L. Thomson Mfg. Co. Shipping-case-riveting machine. No. 1,407,859; Feb. 28.
- Havens, Clara V., New York, N. Y. Washable doll. No. 1,435,159; Nov. 14.
- Havens, Gustus H., Lansing, Mich. Waterproofing composition. No. 1,418,374; June 6.
- Havhanasean, Dick. (See Dulz, Herman, assignor.)
- Haviland, Clarence M., and L. C. Brown, Minneapolis, Minn., assignors to L. M. Haviland, legatee. Boring machine. No. 1,418,923; June 6.
- Haviland, Lillian M., legatee. (See Haviland, C. M., and Brown, assignors.)
- Havr, Andrew H., Minneapolis, Minn. Automatic cattle guard. No. 1,412,240; Apr. 11.
- Haviside Company. (See Brann, H. H., and Tenbrook, assignors.)
- Hawaiian Pineapple Company. (See Bailey, Leslie E., assignor.)
- Hawaiian Pineapple Company. (See Fisher, George E., assignor.)
- Hawaiian Pineapple Company. (See Hoyt, S. T., and Napier, assignors.)
- Hawaiian Pineapple Company. (See Stanley, Albert E., assignor.)
- Hawaiian Pineapple Company. (See Wilberts, Martin E., assignor.)
- Hawes, Herbert E., Brooklyn, assignor of thirty one-hundredths to W. D. Edmonds, Boonville, N. Y. Aircraft and its management. No. 1,435,136; Nov. 7.
- Hawie, Michael, Bridgeport, Conn. Rustless buckle. No. 1,426,634; Aug. 22.
- Hawie, Michael, Bridgeport, Conn. Hose supporter. No. 1,420,635; Aug. 22.
- Hawie, Michael, Bridgeport, Conn. Hose supporter. No. 1,426,636; Aug. 22.
- Hawk, Ruby R., Chicago, Ill. Car uncoupling. No. 1,439,888; Dec. 26.
- Hawkesworth, Arthur L., Butte, Mont. Drill. No. 1,422,264; July 11.
- Hawkesworth, Arthur L., Butte, Mont. Drill. No. 1,422,265; July 11.
- Hawkesworth, Arthur L., Butte, Mont. Drill. No. 1,423,849; July 25.
- Hawkesworth, Arthur L., Butte, Mont. Drill. No. 1,426,637; Aug. 22.
- Hawkesworth, James A., London, England, assignor to The Graton & Knight Manufacturing Company, Worcester, Mass. Power-transmitting belt. No. 1,427,460; Aug. 29.
- Hawkins, Alfred G., Hornsey, assignor of one-half to Associated Newspapers Limited, London, England. Stereotyping fong. No. 1,425,474; Aug. 8.
- Hawkins, Arthur W. (See Busse, E. G., and Hawkins.)
- Hawkins, Charles E., Cincinnati, Ohio. Reducing and grading pulp. No. 1,437,804; Dec. 5.
- Hawkins, Charles R. (See Smith, F. L., and Hawkins.)
- Hawkins, Earl, Springfield, assignor to Simmons Hardware Company, St. Louis, Mo. Horse-collar fastener. No. 1,431,951; Oct. 17.
- Hawkins, Elbert E., Binghamton, N. Y. Electric transportation system. No. 1,417,062; May 23.
- Hawkins, George W., Keithsburg, Ill. Automatic truck dump. No. 1,409,853; Mar. 14.
- Hawkins, James E., Glendale, Calif. Refrigerator. No. 1,403,220; Jan. 10.
- Hawkins, John K., Morristown, Tenn. Acetylene-gas generator. No. 1,405,031; Jan. 31.
- Hawkins, Kenneth, assignor to G. B. Lewis Company, Watertown, Wis. Brood frame. No. 1,414,016; Apr. 25.
- Hawkins, Kenneth, assignor to G. B. Lewis Company, Watertown, Wis. 4-way bee escape. No. 1,414,696; May 2.
- Hawkins, Kenneth, assignor to G. B. Lewis Company, Watertown, Wis. Cappings melter. No. 1,439,164; Dec. 19.
- Hawkins, Laurence A., Schenectady, N. Y., assignor to General Electric Company. Speed-regulating arrangement. No. 1,428,588; Sept. 12.
- Hawkins, Lee A. J., Jerome, Ariz. Holder for dental X-ray films. No. 1,434,894; Nov. 7.
- Hawkins, Lee U., Madisonville, Ky. Name stamp for concrete work. No. 1,457,892; Dec. 5.
- Hawkins, Paul J. (See Hyten, F. C., and Hawkins.)
- Hawkins, Thomas, assignor of one-half to Chauncey R. H. Rex, Slatington, Pa. Manufacture of explosives. No. 1,413,532; Apr. 18.
- Hawkins, Thomas W., Acrefair Works, near Ruabon, Wales. Machine for washing wool and other fibrous or textile materials or fabrics. No. 1,434,340; Oct. 31.
- Hawkins, Whiteman. (See Crowell, E. V., and Hawkins.)
- Hawkins, Wilford J. (See Fine, Bernard M., assignor.)
- Hawkins, Wilford J., Montclair, N. J. Fuse. No. 1,418,710; June 6.

Alphabetical list of patentees—Continued.

- Hawkins, William E., jr., Pelham, N. Y. Wrench. No. 1,424,643; Aug. 1.
- Hawkinson, Paul E., Minneapolis, Minn. Multiple socket wrench. No. 1,407,860; Feb. 28.
- Hawkinson, Paul E., Minneapolis, Minn. Repairing pneumatic tires and an improved patch. No. 1,436,394; Nov. 21.
- Hawkinson, Paul E., Minneapolis, Minn. Attachment for lifting jacks. No. 1,437,055; Nov. 28.
- Hawks, Joseph B., Los Angeles, Calif. Bracket for lumber rollers. No. 1,428,328; Sept. 5.
- Hawks, Moses L., New York, N. Y. Garment support or the like. No. 1,439,165; Dec. 19.
- Hawksworth, David W., assignor to Hutchins Car Roofing Company, Detroit, Mich. Corner construction for flanged roofing sheets. No. 1,411,352; Apr. 4.
- Hawley, Amos H., assignor to International Money Machine Company, Terre Haute, Ind. Accounting and money-handling machine. No. 1,409,172; Mar. 14.
- Hawley, Charles G., Chicago, Ill. Pneumatic tire. No. 1,433,008; Oct. 24.
- Hawley, Darrel A., Toledo, Ohio. Piston ring. No. 1,408,087; Feb. 28.
- Hawley, Eugene W., Philadelphia, Pa. Drawer-locking device. No. 1,413,858; Apr. 25.
- Hawley, Eugene W., Philadelphia, Pa. Retaining device for garment retainers. No. 1,413,659; Apr. 25.
- Hawley, Eugene W., Philadelphia, Pa. Locking device for trunk drawers. No. 1,440,146; Dec. 26.
- Hawley, Everett M., assignor to Roberts & Mander Stove Company, Philadelphia, Pa. Valve for gas ranges. No. 1,402,605; Jan. 3.
- Hawley, George C., Rochester, N. Y. Scow or float for house boats and means for propelling same. No. 1,421,226; June 27.
- Hawley, George C., Rochester, N. Y. Snowplow. No. 1,438,111; Dec. 5.
- Hawley, Jess B., Evanston, assignor to American Seamless Container Company, Chicago, Ill. Fastening device for shipping-case covers. No. 1,417,827; May 30.
- Hawley, Joel E., Kansas City, Mo., and A. W. Caps, Topeka, Kans., assignors of one-fourth to W. J. Riley, Kansas City, Mo. Dispensing device. No. 1,421,777; July 4.
- Hawley, Robert H., Magna, Utah. Screen. No. 1,438,489; Dec. 12.
- Hawley, Seba H., Springfield, Mo. Portable jig saw. No. 1,418,644; June 6.
- Hawley, William H., South Bend, Ind., assignor to Auto Water Heater Corporation, New York, N. Y. Heater. No. 1,409,854; Mar. 14.
- Haworth, Lawrence A., Dalton, Mass., assignor to General Electric Company. Electrical apparatus. No. 1,424,016; July 25.
- Haworth, Walter N., Fifeshire, Scotland, and F. W. Attack, Manchester, England. Manufacture of aromatic alkyl amino compounds. No. 1,426,380; Aug. 22.
- Haws, Henry Y., et al. (See Haws, William H., assignor.)
- Haws, William H., assignor of one-fourth to H. Y. Haws and one-fourth to D. Barry, Johnstown, Pa. Process and machine for making bricks. No. 1,425,010; Aug. 8.
- Hawthorn, R. B., and Leslie & Company, et al. (See Armstrong, R. B., and Paterson, assignors.)
- Hawthorne, Charles W., Buffalo, N. Y. Sign and the like. No. 1,426,475; Aug. 22.
- Hawthorne, Ellsworth A., Bridgeport, Conn. Lamp. No. 1,402,352; Jan. 3.
- Hawthorne, Ellsworth A., Bridgeport, Conn. Illuminating apparatus. No. 1,402,353; Jan. 3.
- Hawthorne, Ellsworth A., Bridgeport, Conn. Lamp. No. 1,415,555; May 9.
- Hawthorne, Ellsworth A., Bridgeport, Conn. Lamp. No. 1,427,291; Aug. 29.
- Hawthorne, John A., Sr., Philadelphia, Pa. Hand-propelled vehicle. No. 1,409,103; Mar. 7.
- Hawthorne, John A., Sr., Philadelphia, Pa. Wheel. No. 1,431,795; Oct. 10.
- Hawthorne Manufacturing Company. (See George, John H., assignor.)
- Hawxhurst, Henry I., Sierra Madre, Calif. Vacuum-feed indicator. No. 1,409,443; Mar. 14.
- Hawxhurst, John J., Jr., Brooklyn, and E. F. Nicolai, Port Washington, N. Y. Kerosene carburetor. No. 1,412,000; Apr. 4.
- Hay, John A., and C. E. Dixon, New Philadelphia, Ohio. Holster and supporting belt. No. 1,439,310; Dec. 19.
- Hay, Roland L., Lancaster, Ohio, assignor to Frick & Lindsay Company, Pittsburgh, Pa. Pump valve. No. 1,426,073; Aug. 15.
- Hay, Soren P., Seattle, Wash. Heating and cooling device for treating milk. No. 1,435,295; Nov. 14.
- Hay, Walter, assignor to The Union Chain and Manufacturing Company, Seville, Ohio. Link chain. No. 1,402,766; Jan. 10.
- Hay, William G., Liverpool, England. Partition connection. No. 1,418,257; May 30.
- Hayden, Edwin A., Salt Lake City, Utah. Nonrefillable bottle. No. 1,420,545; June 20.
- Hayden, Frank D., Seattle, Wash. Tie plate. No. 1,411,626; Apr. 4.
- Hayden, Jesse, F., High Point, N. C., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,429,241; Sept. 19.
- Hayden, R. B. (See Carter, G. W., and Harden.)
- Hayden, Robert B., Seattle, Wash., assignor of one-half to G. Lloyd, Great Falls, Mont. Coin-actuated calendar bank. No. 1,403,601; Jan. 17.
- Hayden, Winfield S., Palmyra, Mo. Steel spring tire. No. 1,418,258; May 30.
- Haydusek, John and M. Husarcik, Racine, Wis. Automobile radiator. No. 1,428,779; Sept. 12.
- Hayes, Albert, New York, N. Y., assignor, by mesne assignments, to U. S. Industrial Alcohol Co. Apparatus for forming a liquid fuel. No. 1,416,291; May 16.
- Hayes, Albert, New York, N. Y., assignor, by mesne assignments, to U. S. Industrial Alcohol Co. Forming a liquid fuel. No. 1,428,885; Sept. 12.
- Hayes, Alva J., Corydon, Iowa. Door hanger. No. 1,421,941; July 4.
- Hayes, Benjamin P., Kansas City, Mo. Key. No. 1,415,029; May 9.
- Hayes, Burris E., Corydon, Iowa. Attachment for plows. No. 1,433,614; Oct. 31.
- Hayes, Carl I., Edgewood, R. I. Electric furnace. No. 1,429,286; Sept. 19.
- Hayes, Dennis E., Boston, Mass. Chair attachment. No. 1,433,134; Oct. 24.
- Hayes, George H., St. Paul, Minn. Spring shackle. No. 1,426,064; Aug. 15.
- Hayes, George H., St. Paul, Minn. Shock absorber. No. 1,437,416; Dec. 5.
- Hayes, James B. (See Walters, Alexander L., assignor.)
- Hayes, Jessie O., et al. (See Underwood, James B., assignor.)
- Hayes, John, Belle Vernon, Pa. Aeroplane. No. 1,423,610; July 25.
- Hayes, John, Belle Vernon, Pa. Aeroplane. No. 1,423,611; July 25.
- Hayes, John, Belle Vernon, Pa. Cuspidor. No. 1,424,247; Aug. 1.
- Hayes, John, Belle Vernon, Pa. Aeroplane. No. 1,440,293; Dec. 26.
- Hayes, Lee B., and V. W. Kemp, Paonia, Colo. Basket truck. No. 1,424,819; Aug. 8.
- Hayes, Leonard, Garrison, Iowa. Resilient wheel. No. 1,433,505; Oct. 24.
- Hayes Manufacturing Company. (See Lyon, Guy A., assignor.)
- Hayes, Oscar, Denver, Colo. Valve-control device. No. 1,425,088; Aug. 8.
- Hayes, Patrick J., New York, N. Y. Fastener. No. 1,431,796; Oct. 10.
- Hayes-Ruppel Manufacturing Company. (See Ruppel, Frederick C., assignor.)
- Hayes, Stanley W., Richmond, Ind. Operating stand for track appliances. No. 1,406,557; Feb. 14.
- Hayes, Stanley W., assignor to Hayes Track Appliance Company, Richmond, Ind. Derrail. No. 1,420,425; June 20.
- Hayes, Stanley W., assignor to Hayes Track Appliance Company, Richmond, Ind. Hand-operated derail. No. 1,420,426; June 20.
- Hayes, Thomas J., Roslindale, assignor to Arbetter Felling Machine Company, Boston, Mass. Feeding mechanism for sewing machines. No. 1,410,753; Mar. 28.
- Hayes, Thomas J., Roslindale, assignor to Arbetter Filling Machine Company, Boston, Mass. Work-presenting mechanism for sewing machines. No. 1,413,581; Apr. 25.
- Hayes Track Appliance Company. (See Hayes, Stanley W., assignor.)
- Hayes & Meserole Mfg. Co. (See Meserole, Milton D., assignor.)
- Hayford, Eugene, Spokane, Wash. Road grader and packer. No. 1,406,558; Feb. 14.
- Hayford, John F., Evanston, Ill., and L. J. Briggs, Battle Creek, Mich., assignors to the Government of the United States. Gyroscopic apparatus. No. 1,429,588; Sept. 19.
- Hayhurst, Richard H. (See Butler, H. and H., Hayhurst, and Alderson.)
- Hayhurst, Robert. (See Capellman, H. J., and Hayhurst.)
- Hayman, Martin E., Milwaukie, Ore. Marking device. No. 1,431,522; Oct. 10.
- Haynes, Charles M., Chillicothe, Ohio. Eyeglass mounting. No. 1,404,762; Jan. 31.
- Haynes, Davidson S., Evansville, Ind. Timer. No. 1,416,638; May 16.
- Haynes, George P. (See McDonald, J., and Haynes.)
- Haynes, George P., Tracy, Calif. Control attachment for scrapers. No. 1,418,567; June 6.
- Haynes, George P., Brooklyn, N. Y. Valve. No. 1,421,687; July 4.
- Haynes, Guy R., assignor of one-third to A. Henke and one-third to H. F. Renzenbrink, St. Louis, Mo. Folding child's bed. No. 1,402,767; Jan. 10.
- Haynes, Harry H., Washington, D. C. Polishing composition. No. 1,410,471; Mar. 21.
- Haynes, Howard. (See Graham, H. F., and Haynes.)
- Haynes, Jack M., Frost, Tex. Stalk-cutter attachment. No. 1,405,782; Feb. 7.
- Haynes, Pierre E., Buffalo, N. Y., assignor to The Linde Air Products Company. Explosive mixture. No. 1,408,293; Feb. 28.
- Haynes, Pierre E., Buffalo, assignor to The Linde Air Products Company, New York, N. Y. Separation of gaseous mixtures. No. 1,429,242; Sept. 19.

- Haynes, Pierre E., Buffalo, assignor to The Linde Air Products Company, New York, N. Y. Apparatus for the separation of gaseous mixtures. No. 1,429,903; Sept. 19.
- Haynes, William J., Jr., Kansas City, Mo. Eraser-cleaning machine. No. 1,416,200; May 16.
- Haynes, William J., Jr., assignor to National Wood Renovating Company, Kansas City, Mo. Eraser cleaner. No. 1,416,201; May 16.
- Haynsworth, Julius D., Mansfield, Ohio, assignor to Westinghouse Electric Products Company. Electric oven. No. 1,422,857; July 18.
- Hays, Arthur V. (See Mobley, L. J., and Hays.)
- Hays, Fred N. (See Forsythe, J. W., and Hays.)
- Hays Manufacturing Co. (See Hitchcock, Otto G., assignor.)
- Hays, Samuel O., Halls Summit, Kans. Combined road grader and scraper. No. 1,412,347; Apr. 11.
- Hays, Walter E. (See Chilcote, A. A., Hatch, and Hays.)
- Hayward, Agnes C., Chicago, Ill. Eggbeater. No. 1,439,102; Dec. 19.
- Hayward, Carle R. (See Eustis, F. A., Hayward, Schleicher, and Belcher.)
- Hayward, Carle R., Quincy, and H. M. Schleicher, Boston, Mass., assignors to American Metal Company, Ltd., New York, N. Y. Treatment of slate. No. 1,415,346; May 9.
- Hayward, George W., and F. P. Anderson, Flint, Mich.: said Anderson assignor to said Hayward. Vulcanizing machine. No. 1,404,120; Jan. 17.
- Hayward, Harley M., Chattanooga, Tenn. Automatic egg boiler and poacher. No. 1,410,754; Mar. 28.
- Hayward, Harvey R., Akron, Ohio. Toy. No. 1,430,503; Sept. 26.
- Hazard, Edmund L., Hollister, Idaho. Wrench. No. 1,407,152; Feb. 21.
- Hazard, George E., assignor to Kellogg Manufacturing Company, Rochester, N. Y. Valve construction. No. 1,423,323; July 18.
- Hazard, George E., assignor to Kellogg Manufacturing Co., Rochester, N. Y. Garage air compressor. No. 1,426,869; Aug. 22.
- Hazard, George E., assignor to Kellogg Manufacturing Co., Rochester, N. Y. Grease gun. No. 1,434,117; Oct. 31.
- Hazzer, Edgar P., assignor to American Blower Company, Detroit, Mich. Switching mechanism for controlling circuits. No. 1,404,694; Jan. 24.
- Hazel-Atlas Glass Company. (See Freese, Ira H., assignor.)
- Hazel Atlas Glass Co. (See Good, Robert, assignor.)
- Hazelett, Clarence W., Lakewood, Ohio, assignor to National Carbon Company, Inc. Dry cell. No. 1,403,409; Jan. 10.
- Hazelett, Clarence W., Lakewood, Ohio, assignor to National Carbon Company, Inc. Dry cell. No. 1,403,410; Jan. 10.
- Hazelett, Clarence W., Lakewood, Ohio, assignor to National Carbon Company, Inc. Dry cell. No. 1,415,873; May 16.
- Hazell, John S., Forest Gate, London, assignor to Unchokeable Pump Limited, London, England. Centrifugal pump. No. 1,439,364; Dec. 19.
- Hazell, John S., Forest Gate, London, assignor to Unchokeable Pump Limited, London, England. Centrifugal pump. No. 1,439,365; Dec. 19.
- Hazelquist, Joseph A., Amery, Wis. Film camera. No. 1,427,954; Sept. 5.
- Hazeltine, Benjamin P., Wheeling, W. Va. Ingot. No. 1,417,246; May 23.
- Hazelton, Alvah R. (See Rupe, R. B., and Hazelton.)
- Hazelton, Carl J., assignor to American Narrow Fabric Company, Worcester, Mass. Button for hose supporters. No. 1,432,692; Oct. 17.
- Hazelton, Carl J., assignor to American Narrow Fabric Company, Worcester, Mass. Hose supporter. No. 1,432,693; Oct. 17.
- Hazelton, Carl J., assignor to American Narrow Fabric Company, Worcester, Mass. Hose-supporter button. No. 1,432,694; Oct. 17.
- Hazelton, Donald A. (See Rupe, R. B., and Hazelton.)
- Hazelton, Robert T., assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Keyed-gear assembly. No. 1,438,036; Dec. 5.
- Hazen-Brown Company. (See Hunting, Willard C., assignor.)
- Hazen, James A., Long Beach, Calif. Collapsible metal crate. No. 1,414,948; May 2.
- Hazen, Jeremiah R., Iota, La. Shingling hatchet. No. 1,404,764; Jan. 31.
- H'Doubler, Charles W., Madison, Wis. Pneumatic drill. No. 1,408,176; Feb. 28.
- H'Doubler, Charles W., Madison, Wis. Electric switch. No. 1,408,177; Feb. 28.
- Heacox, Ross D., assignor to Metals Repair and Supply Company, Washington, D. C. Soldering copper. No. 1,434,289; Oct. 31.
- Head, Allan J., et al. (See Pollock, John L., assignor.)
- Head, Casimir J., London, England. Manufacture of chromic oxide and sodium sulphide from sodium chromate. No. 1,422,703; July 11.
- Head, Ernest C. (See Stewart, A. L., and Head.)
- Head, James M., Houston, Tex. Automobile headlight. No. 1,435,296; Nov. 14.
- Head, John D. (See Woatson, Arthur E., assignor.)
- Head, Robert, New York, N. Y., assignor to The Aeolian Company. Repeat device for automatic pianos and the like. No. 1,402,230; Jan. 3.
- Head, Robert, Yonkers, N. Y., assignor to The Aeolian Company. Phonograph sound box. No. 1,404,608; Jan. 24.
- Head, Robert, Yonkers, N. Y., assignor to The Aeolian Company. Apparatus for making phonograph records. No. 1,419,851; June 13.
- Head, Robert, New York, N. Y., assignor to The Aeolian Company. Automatic musical instrument. No. 1,424,903; Aug. 8.
- Head, Robert, New York, N. Y., assignor to The Aeolian Company. Phonograph and the like. No. 1,429,204; Sept. 12.
- Head, Robert, Yonkers, N. Y., assignor to The Aeolian Company. Sound box for phonographs. No. 1,440,294; Dec. 26.
- Heading, Harry, Hanging Rock, Ohio. Envelope. No. 1,421,227; June 27.
- Headley, Benjamin T., and D. I. Du Bois, assignors to Whitall-Tatum Company, Millville, N. J. Delivery mechanism. No. 1,425,962; Aug. 15.
- Headley, Frederick H., Birmingham, England. Spring suspension mechanism for vehicles. No. 1,428,166; Sept. 5.
- Headley, Henry, et al. (See van Meeteren, Harry W., assignor.)
- Headley, William Y., Cincinnati, Ohio. Oiling device. No. 1,416,202; May 16.
- Headrick, Lester. (See Roberts, David, assignor.)
- Headron, Frank A., Milwaukee, Wis. Paper machine. No. 1,407,154; Feb. 21.
- Heald, James N., and A. M. Drake, assignors to Heald Machine Company, Worcester, Mass. Draw-in chuck. No. 1,413,161; Apr. 18.
- Heald Machine Company. (See Heald, J. N., and Drake, assignors.)
- Heald, Marion, Golden, Colo. Flour sieve. No. 1,427,810; Sept. 5.
- Healy, Columbus, Chicago, Ill. Container for holding bank bills. No. 1,424,356; Aug. 1.
- Healy, Ellis C. (See Renshaw, C. E., and Healy.)
- Healy, Ellis C., East Orange, N. J., assignor to The Newman Clock Company, Inc., New York, N. Y. Supervisory mechanism. No. 1,407,809; Feb. 28.
- Healy, Ellis C., East Orange, N. J., assignor to The Newman Clock Company, Inc., New York, N. Y. Supervisory mechanism. No. 1,407,811; Feb. 28.
- Healy, Ellis C., East Orange, N. J., assignor to The Newman Clock Company, Inc., New York, N. Y. Supervisory mechanism. No. 1,407,815; Feb. 28.
- Healy, Ellis C., East Orange, N. J., assignor to The Newman Clock Company, Inc., New York, N. Y. Supervisory mechanism. No. 1,407,816; Feb. 28.
- Healy, Ellis C., East Orange, N. J., and G. P. Schmidt, New York, N. Y., assignors to The Newman Clock Company, Inc., New York, N. Y. Supervisory mechanism. No. 1,407,814; Feb. 28.
- Healy, James F., Chicago, Ill. Trolley construction. No. 1,409,173; Mar. 14.
- Healy, James F., Chicago, Ill. Attachment for trolley poles. No. 1,409,376; Mar. 14.
- Healy, James H. (See Healy, John A., and J. H.)
- Healy, John A., Langdon, and J. H., St. Paul, Minn. Radiator hanger. No. 1,436,763; Nov. 28.
- Healy, Leon J. D., assignor to Wright Rubber Products Company, Racine, Wis. Tile. No. 1,437,304; Nov. 28.
- Healy, Marquette A., assignor to Lyon & Healy, Chicago, Ill. Piano and music rack therefor. No. 1,409,143; Mar. 7.
- Healy, Marquette A., and W. I. Kirk, assignors to Lyon & Healy, Chicago, Ill. Lighting fixture. No. 1,416,664; May 16.
- Healy, Maurice J., West Hoboken, N. J. Boiler. No. 1,421,778; July 4.
- Healy, William J. (See Close, Edmund E., assignor.)
- Heames, Richard M., assignor to The Vixson Company, Detroit, Mich. Thread-rolling die. No. 1,414,641; May 2.
- Heames, Richard M., assignor to The Vixson Company, Detroit, Mich. Automatic blank-dressing machine. No. 1,414,642; May 2.
- Heany, John A., New York, N. Y. Electric-arc lamp. No. 1,403,078; Jan. 10.
- Heany, John A., New York, N. Y. Electric-arc lamp. No. 1,403,079; Jan. 10.
- Heany, John A., New York, N. Y. Incandescent electric lamp. No. 1,406,645; Feb. 14.
- Heany, John A., New Haven, Conn. Molding. No. 1,406,730; Feb. 14.
- Heany, John A., New Haven, Conn. Dehydrating machine. No. 1,414,184; Apr. 25.
- Heany, John A., New Haven, Conn. Incandescent electric lamp. No. 1,431,158; Oct. 10.
- Heany, John A., New Haven, Conn., assignor, by mesne assignments, to Rockbestos Products Corporation. Asbestos product. No. 1,439,166; Dec. 19.
- Heany, John A., New Haven, Conn., assignor, by mesne assignments, to Rockbestos Products Corporation. Distributing device for reeling mechanism. No. 1,404,853; Jan. 31.

Alphabetical list of patents—Continued.

- Heany, John A., New Haven, Conn., assignor, by mesne assignments, to Rockbestos Products Corporation. Machine for manufacturing asbestos yarn. No. 1,407,685; Feb. 21.
- Heany, John A., New Haven, Conn., assignor, by mesne assignments, to Rockbestos Products Corporation. Treating asbestos. No. 1,407,686; Feb. 21.
- Heany, John A., New Haven, Conn., assignor, by mesne assignments, to Rockbestos Products Corporation. Insulation-testing device. No. 1,407,693; Feb. 28.
- Heany, John A., New Haven, Conn., assignor, by mesne assignments, to Rockbestos Products Corporation. Clutch mechanism. No. 1,423,108; July 18.
- Heany, John A., New Haven, Conn., assignor, by mesne assignments, to Rockbestos Products Corporation. Insulating flat-wire conductors. No. 1,426,065; Aug. 15.
- Heap, Arthur C., Woking, England. Electric contacting device. No. 1,402,420; Jan. 3.
- Heap, Guy F., Midian, Kans. Oil-well tool. No. 1,424,820; Aug. 8.
- Heap, Jesse J., New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Folder for sewing machines. No. 1,412,001; Apr. 4.
- Heapy, Archibald C., New York, N. Y. Cellular plastic construction and producing same. No. 1,438,238; Dec. 12.
- Heard, James B., San Antonio, Tex. System of electric-circuit control. No. 1,406,731; Feb. 14.
- Hearing, James L., Columbus, Ohio. Floor scraper. No. 1,411,431; Apr. 4.
- Hearn, Hiram S., Denver, Colo. Transmission switch. No. 1,404,609; Jan. 24.
- Hearn, Ira K. (See Maxwell, E. M., and Hearn.)
- Hease, Robert H., et al. (See Fischer, Henry J., assignor.)
- Heater, Byron L., Forest Park, Ill. Hanger. No. 1,414,127; Apr. 25.
- Heath, Donald B., Winthrop, and A. Annis, Everett, Mass., assignors to Boston Last Company. Toe ironing and treeling machine. No. 1,404,695; Jan. 24.
- Heath, Earl, Marinette, Wis. Building structure. No. 1,416,821; May 23.
- Heath, Francis, assignor to The Huddersfield, England, Heath Wrapper Company, Little Moor, Mirfield, England. Wrapping machine. No. 1,423,324; July 18.
- Heath, Frank, National City, Calif. Sardine beheading and entrails-removing apparatus. No. 1,402,421; Jan. 3.
- Heath, Frank, National City, Calif. Sardine-turning apparatus. No. 1,430,011; Sept. 26.
- Heath, Frederick, Tacoma, Wash. Corner and jamb tile. No. 1,403,953; Jan. 17.
- Heath, George S., Chicago, Ill. Throttle and horn control apparatus. No. 1,430,229; Sept. 26.
- Heath, Harry E., Long Island City, assignor to Automatic Safety Tire Valve Corporation, New York, N. Y. Coupling. No. 1,437,940; Dec. 5.
- Heath, Mary, Yonkers, assignor to I. E. Letner, New York, N. Y. Life belt. No. 1,425,475; Aug. 8.
- Heath, Ralph D., assignor of one-half to J. Ring, Portland, Oreg. Pneumatic brake for vehicles. No. 1,416,822; May 23.
- Heath, Wilfrid P., Chicago, Ill., and R. M. Washburn, St. Paul, Minn. Process of and means for putting up powdered milk and other food products in a sterile atmosphere. No. 1,406,380; Feb. 14.
- Heath, Wilfrid P., Chicago, Ill., and R. M. Washburn, St. Paul, Minn. Manufacturing powdered milk and other food products. No. 1,406,381; Feb. 14.
- Heath, Willard H., Spokane, Wash. Valve grinder. No. 1,414,358; May 2.
- Heath Wrapper Company. (See Heath, Francis, assignor.)
- Heatlie, William C., Beverly, Mass. Clamp. No. 1,423,933; July 25.
- Heaton, Clarence E., assignor to Wilson Brothers, Chicago, Ill. Buckle. No. 1,434,208; Oct. 31.
- Heaton, Herman C., Berwyn, Ill. Luminous sign. No. 1,436,092; Nov. 21.
- Heaton, William H., Shawnee, Kans. Auto step. No. 1,428,030; Sept. 5.
- Heatwole, Isaac N., Dalton, Ohio. Garment fastener. No. 1,405,688; Feb. 7.
- Heatwole, Timothy O., Baltimore, Md. Tongue guard. No. 1,405,689; Feb. 7.
- Hebebrand, George H. (See Neal, B., and Hebebrand.)
- Hebeler, Edward S. (See Wiggins, E. J., and Hebeler.)
- Heber, Gabriel, Rock Island, Ill. Onion-topping machine. No. 1,413,224; Apr. 18.
- Heberlein & Co., A. G. (See Giesler, Henry, assignor.)
- Heberlein, Eduard, Wattwil, Switzerland. Cotton fiber and making same. No. 1,439,517; Dec. 19.
- Heberlein, Eduard, Wattwil, Switzerland. Cotton goods with linenlike effect and producing said effect. No. 1,439,519; Dec. 19.
- Heberlein, Georges, Wattwil, Switzerland, assignor to Heberlein Patent Corporation, New York, N. Y. Production of permanent effects in cotton fabrics. No. 1,439,512; Dec. 19.
- Heberlein, Georges, Wattwil, Switzerland, assignor to Heberlein Patent Corporation, New York, N. Y. Treating cotton fabric to produce woollike effects. No. 1,439,513; Dec. 19.
- Heberlein, Georges, Wattwil, Switzerland, assignor to Heberlein Patent Corporation, New York, N. Y. Production of permanent effects in cotton fabrics. No. 1,439,514; Dec. 19.
- Heberlein, Georges, Wattwil, Switzerland, assignor to Heberlein Patent Corporation, New York, N. Y. Production of permanent effects in cotton fabrics. No. 1,439,515; Dec. 19.
- Heberlein, Georges, Wattwil, Switzerland, assignor to Heberlein Patent Corporation, New York, N. Y. Production of permanent effects in cotton fabrics. No. 1,439,516; Dec. 19.
- Heberlein, Georges, Wattwil, Switzerland, assignor to Heberlein Patent Corporation, New York, N. Y. Treating cotton fabric to produce woollike effects. No. 1,439,518; Dec. 19.
- Heberlein, Georges, Wattwil, Switzerland, assignor to Heberlein Patent Corporation, New York, N. Y. Production of permanent effects in cotton fabrics. No. 1,439,520; Dec. 19.
- Heberlein, Georges, Wattwil, Switzerland, assignor to Heberlein Patent Corporation, New York, N. Y. Production of permanent effects in cotton fabrics. No. 1,439,521; Dec. 19.
- Heberlein Patent Corporation. (See Heberlein, Georges, assignor.)
- Heberling, John, Rochester, N. Y. Printing machine. No. 1,423,525; July 18.
- Heberling, John, Rochester, N. Y. Buckle. No. 1,429,139; Sept. 12.
- Heberling, Ralph H., New York, N. Y., assignor to Richmond Radiator Company. Detachable bathtub legs. No. 1,429,424; Sept. 19.
- Hebern, William. (See Gray, A. J., and Hebern.)
- Hebert, Onesime, Oklahoma, Okla., assignor to Universal Car and Hose Coupler Company, Phoenix, Ariz. Combination car and train-pipe coupling. No. 1,426,732; Aug. 22.
- Hebert, Paul E., Weatherford, Tex. Insect exterminator. No. 1,436,958; Nov. 28.
- Hebrock, Richard G., Irvington, N. J. Metallic radiator thermometer. No. 1,420,038; June 20.
- Hebron, Frank H., et al. (See Hagerty, Robert J., assignor.)
- Hechenbleikner, Ingenuin, Charlotte, N. C., assignor to Southern Electro-Chemical Company, New York, N. Y. Method of and apparatus for producing gases. No. 1,409,295; Mar. 14.
- Hechenbleikner, Ingenuin, and T. C. Oliver, Charlotte, N. C., assignors to Chemical Construction Company. Method of and apparatus for concentrating acid. No. 1,415,443; May 9.
- Hechenbleikner, Ingenuin, and T. C. Oliver, Charlotte, N. C., assignors to Chemical Construction Company, New York, N. Y. Treating acids. No. 1,421,688; July 4.
- Hechenbleikner, Ingenuin, and T. C. Oliver, Charlotte, N. C., assignors to Chemical Construction Company, New York, N. Y. Treating sludge acids. No. 1,423,766; July 25.
- Hechenbleikner, Ingenuin, and T. C. Oliver, Charlotte, N. C., assignors to Chemical Construction Company, New York, N. Y. Treating sludge acids. No. 1,423,767; July 25.
- Hechenbleikner, Ingenuin, and T. C. Oliver, Charlotte, N. C., assignors to Chemical Construction Company, New York, N. Y. Treating sludge acids. No. 1,429,140; Sept. 12.
- Hecht, Ephraim S., New York, N. Y. Shoe rest. No. 1,416,823; May 23.
- Hecht, Joseph L., assignor to French & Hecht, Davenport, Iowa. Wheel hub. No. 1,409,174; Mar. 14.
- Hecht, Joseph L., assignor to French & Hecht, Davenport, Iowa. Making metal-wheel hubs. No. 1,409,175; Mar. 14.
- Heck, Charles M., Raleigh, N. C. Apparatus for incubating. No. 1,424,821; Aug. 8.
- Heck, George D., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Dental chair. No. 1,402,292; Jan. 3.
- Hockathorn, Arnold, Oil City, Pa. Roller-shade support. No. 1,434,054; Oct. 31.
- Heckel, Charles F. (See Nuss, G. H., and Heckel.)
- Hecker, Arthur S., Cleveland, Ohio. Loading and unloading apparatus. No. 1,409,715; Mar. 14.
- Hecker, Frederick L. (See Folse, R. J., and Hecker.)
- Hecker, Heinrich, Hagen, Germany. Recuperator. No. 1,426,381; Aug. 22.
- Hecker, William H. (See Cazier, P. H., and Hecker.)
- Heckler, William P., Napoleon, Ohio. Fencepost. No. 1,423,934; July 25.
- Heckman, August, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Regulator system. No. 1,437,142; Nov. 28.
- Hector, Alexander B., Greenwich, near Sydney, New South Wales, Australia. Production of color music and other luminous effects and apparatus therefor. No. 1,432,552; Oct. 17.
- Hector, Alexander B., Greenwich, near Sydney, New South Wales, Australia. Production of color music and other luminous effects and apparatus therefor. No. 1,432,553; Oct. 17.

Alphabetical list of patentees—Continued.

- Hed, Edward, Stockholm, and J. A. Helsing, Barkarby, Sweden. Change-speed-control mechanism. No. 1,434,384; Nov. 7.
- Hedberg, August F., Milford, Mass. Flying machine. No. 1,417,602; May 30.
- Hedberg, Carl W. J., New Britain, Conn., assignor to Research Corporation, New York, N. Y. Electric high-velocity classifier. No. 1,416,089; May 16.
- Hedberg, Erik A. (See Stenmark, A. O. G., and Hedberg.)
- Hedberg, John A., assignor to The South Side Manufacturing Company, Denver, Colo. Animal trap. No. 1,423,715; July 25.
- Heddon's, James, Sons. (See Welch, John T., assignor.)
- Heddon's, James, Sons, Inc. (See Stolley, William A., assignor.)
- Hedón, Gustaf, New York, N. Y. Buoying and driving mechanism for fying machines. No. 1,426,870; Aug. 22.
- Hedenskoog, Ernest, Muskegon, Mich. Ball rack. No. 1,418,075; May 30.
- Hedenskoog, Ernest, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Pin-setting machine. No. 1,437,842; Dec. 5.
- Hedfeldt, Axel T., Minneapolis, Minn. Grain separator and grader. No. 1,410,472; Mar. 21.
- Hedgcock, William C. (See Whitney, L. L., and Hedgcock.)
- Hedgcock, William C., assignor to American Steel Foundries, Chicago, Ill. Brake-beam reversible fulcrum. No. 1,413,780; Apr. 25.
- Hedgcock, William C., assignor to American Steel Foundries, Chicago, Ill. Reversible-fulcrum arrangement. No. 1,425,649; Aug. 15.
- Hedgcock, William C., assignor to American Steel Foundries, Chicago, Ill. Reversible-fulcrum mechanism. No. 1,425,650; Aug. 15.
- Hedgcock, William C., assignor to American Steel Foundries, Chicago, Ill. Reversible-fulcrum means. No. 1,425,651; Aug. 15.
- Hedgcock, William C., assignor to American Steel Foundries, Chicago, Ill. Fulcrum mechanism. No. 1,426,074; Aug. 15.
- Hedgcock, William C., assignor to American Steel Foundries, Chicago, Ill. Reversible-fulcrum structure. No. 1,426,075; Aug. 15.
- Hedgcock, William C., assignor to American Steel Foundries, Chicago, Ill. Brake-beam safety arrangement. No. 1,431,226; Oct. 10.
- Hedgcock, William C., assignor to American Steel Foundries, Chicago, Ill. Reversible fulcrum. No. 1,434,817; Nov. 17.
- Hedgcock, William C., assignor to American Steel Foundries, Chicago, Ill. Reversible fulcrum construction. No. 1,434,818; Nov. 7.
- Hedgcock, William C., assignor to American Steel Foundries, Chicago, Ill. Adjustable brake head arrangement. No. 1,434,819; Nov. 7.
- Hedgcock, William C., assignor to American Steel Foundries, Chicago, Ill. Reversible fulcrum arrangement. No. 1,434,820; Nov. 7.
- Hedgcock, William C., assignor to American Steel Foundries, Chicago, Ill. Reversible fulcrum mechanism. No. 1,435,801; Nov. 28.
- Hedgcock, William C., assignor to American Steel Foundries, Chicago, Ill. Reversible fulcrum. No. 1,439,704; Dec. 26.
- Hedgcock, William S., assignor to American Steel Foundries, Chicago, Ill. Reversible fulcrum. No. 1,439,705; Dec. 26.
- Hodges, Edward E., New York, N. Y. Distilling shale. No. 1,423,716; July 25.
- Hedges, Edward G. (See Shoppe, F. L., Hedges, and Heroy.)
- Hodler, Henry J., Occum, Conn., assignor to Draper Corporation, Hopedale, Mass. Filling clamping and parting means for looms. No. 1,427,380; Aug. 29.
- Hedley, Frank, Yonkers, and J. S. Doyle, Mount Vernon, N. Y. Guard lookout station for railway cars. No. 1,413,913; Apr. 25.
- Hedmark, Joseph H., Chicago, Ill. Furnace. No. 1,412,178; Apr. 17.
- Hedren, Harry E. (See Isenberg, R. G., and Hedren.)
- Hedrich, William. (See Lindeman, J. and Hedrich.)
- Hedrich, William, and J. Lindeman, Trochu, Alberta, Canada. Drag. No. 1,438,705; Dec. 12.
- Hedrick, Charles C., Cambridge, assignor to Saco-Lowell Shops, Boston, Mass. Cam-operating mechanism for gill boxes. No. 1,418,568; June 6.
- Hedrick, Harold L., and H. C. Chantler, Columbus, Ohio. Attachment for typewriters. No. 1,420,259; June 20.
- Hedrick, Joseph W., and C. S. Harper, Ottumwa, Iowa. Adjustable throw board and rack for wagon boxes and other vehicles. No. 1,407,415; Feb. 21.
- Hedstrom, Albert S., Oak Park, Ill. Hinge. No. 1,418,076; May 30.
- Hée, Edmond, Evreux, France. Multiple-share plow. No. 1,410,917; Mar. 28.
- Heekin Can Company, The. (See Hake, Charles F., jr., assignor.)
- Heenan, William B., Columbus, Ohio. Adjustable tractor hitch. No. 1,405,916; Feb. 7.
- Heepe, Wilhelm, Wilhelmshaven, Germany, assignor to Achille Starace & Co., New York, N. Y. Safety-razor-blade stropper. No. 1,405,032; Jan. 31.
- Heer, Otto F., assignor of one-half to F. Van Pelt, Ontario, Calif. Drill. No. 1,407,348; Feb. 21.
- Heer, Otto F., Nardol, Calif. Cultivator attachment for tractors. No. 1,429,875; Sept. 19.
- Heeren, Walter F., Pittsburgh, Pa. Pressing mechanism for sign units. No. 1,417,993; May 20.
- Heerling, W., New York, N. Y. Foldable chair or the like. No. 1,421,779; July 4.
- Heeter, Charles M., Butler, Pa. Oil-well packer. No. 1,422,704; July 11.
- Heeter, Charles M., Butler, Pa. Oil-well packer. No. 1,423,213; July 18.
- Heeter, Charles M., Butler, Pa. Oil saver. No. 1,427,811; Sept. 5.
- Heffelfinger, Charles S., Lebanon, Pa. Steam blower. No. 1,404,854; Jan. 31.
- Hefner, Edith G., Du Bois, Pa. Attachment for washboards. No. 1,404,696; Jan. 24.
- Heflin, James B., Fulton, Ky. Shade raiser. No. 1,413,731; Apr. 25.
- Hefner, Joseph T., Topeka, Kans. Mail-bag receiving and delivering apparatus. No. 1,408,595; Mar. 7.
- Hefner, Lonnie D., et al. (See Thomas, Martin E., assignor.)
- Hefner, Victor R., assignor to The Zenith Carburetor Company, Detroit, Mich. Air-inlet-control device for carburetors. No. 1,418,259; May 30.
- Hegar, Joseph B., Philadelphia, Pa. Demountable ring. No. 1,403,777; Jan. 17.
- Heckenberg, née Freyer, Erma, Berlin, Germany. Lid holder with drop catcher. No. 1,438,706; Dec. 12.
- Hegwer, Herman J., Oakland, Calif. Windmill. No. 1,404,715; Jan. 24.
- Hehemann, Frederick H., assignor to The Lunkenheimer Company, Cincinnati, Ohio. Gauge cock. No. 1,409,176; Mar. 14.
- Heiberg, Fred, et al. (See Bahr, August T. J., assignor.)
- Heidbrink, Jay A., Minneapolis, Minn. Mouth prop. No. 1,415,347; May 9.
- Heidbrink, Jay A., and B. J. Clark, Minneapolis, Minn. Anæsthetizing machine. No. 1,412,866; Apr. 18.
- Heide, William A., Detroit, Mich. Carburetor. No. 1,422,054; July 4.
- Heide, William A., Detroit, Mich. Carburetor. No. 1,432,245; Oct. 17.
- Heideman, Fred J., assignor to Household Utilities Corporation, Detroit, Mich. Expansion valve for refrigerating apparatus. No. 1,428,031; Sept. 5.
- Heideman, Fred J., assignor to Household Utilities Corporation, Detroit, Mich. Journal-bearing seal. No. 1,435,391; Nov. 14.
- Heideman, Fred J., and J. N. Hadjisky, Detroit, Mich., assignors to Kelvinator Corporation, Wilmington, Del. Automatic expansion valve for refrigerating apparatus. No. 1,438,178; Dec. 12.
- Heidenreich, Isidor, St. Louis, Mo. Advertising device. No. 1,411,022; Mar. 28.
- Heldberg, Fritz, Philadelphia, Pa., and C. E. Vanderkleed, Collingswood, N. J., assignors to The Pennsylvania Company for Insurances on Lives and Granting Annuities. Safety means for discharge nozzles. No. 1,405,132; Jan. 31.
- Heigh, John W., Rochester, N. Y. Chuck for lathes and the like. No. 1,417,169; May 23.
- Heil, Julius P., Milwaukee, Wis. Fluid hitch. No. 1,421,469; July 4.
- Heilmann, Walter, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gun with independent sighting line. No. 1,422,099; July 11.
- Heilman, Guy C., Philadelphia, Pa. Melting tank. No. 1,422,858; July 18.
- Heilman, Guy C., Philadelphia, Pa. Heating device for kilns and other structures. No. 1,430,103; Dec. 19.
- Heilman, Henry N., St. Louis, Mo. Coupon-cutting machine. No. 1,414,128; Apr. 25.
- Heilmann, Harold B., New York, N. Y. Garment. No. 1,404,855; Jan. 31.
- Heim, Charles, E. R., C. C., and E. C., Three Rivers, Tex. Combined feeder and hive ventilator. No. 1,435,118; Nov. 7.
- Heim, Clarence C. (See Heim, Charles, E. R., C. C., and E. C.)
- Heim, Edwin C. (See Heim, Charles, E. R., C. C., and E. C.)
- Heim, Emil R. (See Heim, Charles, E. R., C. C., and E. C.)
- Heimann, M. A., Manufacturing Company. (See Frank, Samuel, assignor.)
- Heimann, Oscar J., Urbana, Ohio. Grass cutter. No. 1,428,284; Sept. 5.
- Heimbach, Albert H., St. Paul, Minn. Incinerator. No. 1,435,297; Nov. 14.
- Heimbucher, Gottlieb A., Chicago, Ill. Apparatus for treating oil-bearing shale. No. 1,421,228; June 27.
- Heimerl, Julius E., assignor to The Hot Lunch Box Co., Milwaukee, Wis. Receptacle for meals. No. 1,435,521; Nov. 14.
- Hein, George N., San Francisco, Calif. Driving shield for motor vehicles. No. 1,437,656; Dec. 5.
- Hein, Paul. (See Compers, E. E., Weyl, and Hein.)
- Heindl, Frank X., Kersey, Pa. Sand-drying device. No. 1,424,904; Aug. 8.

Alphabetical list of patentees—Continued.

- Heindl, Stephen O., assignor of one-half to E. Zeitz, Chicago, Ill. Scissors-grinding machine. No. 1,427,735; Aug. 29.
- Heinrich, Frances, and J. Gluck, New York, N. Y. Sewing-machine attachment. No. 1,430,165; Sept. 26.
- Heine, Albert F., Quincy, Ill. Bath device. No. 1,407,030; Feb. 21.
- Heine Boiler Company. (See Cotton, Alfred, assignor.)
- Heine, Frederick J., Huntington, Mass. Automatic shift. No. 1,413,271; Apr. 18.
- Heine Safety Boiler Company. (See Clay, Samuel B., assignor.)
- Heine, William, Milwaukee, Wis. Sprinkling apparatus. No. 1,419,925; June 20.
- Heineke, Martin L., assignor to Heineke & Company, Springfield, Ill. Thrashing-machine feeder. No. 1,419,926; June 20.
- Heineke & Company. (See Heineke, Martin L., assignor.)
- Heinemann, Max. (See Anthony, W. C. and Heinemann.)
- Heinrich, Albert S., Freeport, N. Y. Aeroplane. No. 1,438,957; Dec. 19.
- Heinrich, Erich, Detroit, Mich. Clothes-washing machine. No. 1,408,596; Mar. 7.
- Heinrich, Mary E., Freeport, N. Y. Headwear. No. 1,437,244; Nov. 28.
- Heinrich, Walter A., assignor to W. N. Matthews and Brother, Inc., St. Louis, Mo. Spray-gun nozzle. No. 1,438,239; Dec. 12.
- Heinrich, Walter A., assignor to W. N. Matthews and Brother, Inc., St. Louis, Mo. Painting apparatus. No. 1,440,147; Dec. 26.
- Heinrichs, Berg, assignor to Mid-West Box Company, Anderson, Ind. Machine for feeding corrugated board. No. 1,437,843; Dec. 5.
- Heintz, Carl M., et al. (See Wolfe, Cyrus H., assignor.)
- Heintz, Ernest E., assignor to Ternstedt Mfg. Co., Detroit, Mich. Window-regulator slide. No. 1,430,647; Oct. 3.
- Heintz, Ernest E., assignor to Ternstedt Manufacturing Company, Detroit, Mich. Curtain roll. No. 1,438,997; Dec. 19.
- Heintz, L. R., et al. (See Wolfe, Cyrus H., assignor.)
- Heiny, Anatole C., Flushing, N. Y. Electrical sign. No. 1,438,306; Dec. 12.
- Heinz, Richard, assignor to American Lithographic Company, New York, N. Y. Folding easel display. No. 1,404,204; Jan. 24.
- Heinzelman, John C., Chicago, Ill. Elevator-door construction. No. 1,415,639; May 9.
- Heinzen, Marjory C., Boston, Mass. Athletic corset for women. No. 1,409,215; Mar. 14.
- Heise, Carl C., Decatur, Ill. Direction-signaling apparatus for motor vehicles. No. 1,412,112; Apr. 11.
- Heise, Roscoe S., assignor to The Miami Cycle & Mfg. Co., Middletown, Ohio. Pedal rubber. No. 1,403,242; Jan. 10.
- Heise, Roscoe S., assignor to Miami Cycle & Mfg. Co., Middletown, Ohio. Pedal rubber. No. 1,432,392; Oct. 17.
- Heiser, Charles J., Los Angeles, Calif. assignor to Pacific Manufacturing & Electric Co. Heating element. No. 1,435,392; Nov. 14.
- Heiser, Lucien, Los Angeles, Calif. Machine for mixing, kneading, mashing, cooking, or chopping substances. No. 1,430,012; Sept. 26.
- Heiser, Peter. (See Gurgel, Paul F., assignor. (Reissue.)
- Heisey, A. H., & Company. (See Heisey, Augustus H., assignor.)
- Heisey, A. H., & Company. (See Sanford, Andrew J., assignor.)
- Heisey, Augustus H., assignor to A. H. Heisey & Company, Newark, Ohio. Glass-finishing machine. No. 1,436,878; Nov. 28.
- Heising, Raymond A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Wireless signaling. No. 1,406,857; Feb. 14.
- Heising, Raymond A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric discharge apparatus. No. 1,413,732; Apr. 25.
- Heising, Raymond A., East Orange, N. J., assignor to Western Electric Company, Inc., New York, N. Y. Method and means for preventing amplifiers from oscillating. No. 1,426,733; Aug. 22.
- Heising, Raymond A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Circuit connection of electron-discharge apparatus. No. 1,432,022; Oct. 17.
- Heising, Raymond A., East Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Thermionic voltmeter. (Reissue.) No. 15,469; Oct. 17.
- Heising, Raymond A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. System of producing modulated waves. No. 1,436,252; Nov. 21.
- Heisler, Aaron, Pittsburgh, Pa. Chipping machine. No. 1,408,735; Mar. 7.
- Heisler, Charles L., Schenectady, N. Y. Disk-forming machine. No. 1,430,989; Oct. 3.
- Heisler, Charles L., Schenectady, N. Y., assignor to General Electric Company. Gearing. No. 1,415,556; May 9.
- Heisler, Charles L., Schenectady, N. Y., assignor to General Electric Company. Gearing. No. 1,434,697; Nov. 7.
- Heist, Stuart H., Penllyn, assignor to Penn Rubber Products Corporation, Philadelphia, Pa. Making hollow articles. No. 1,402,293; Jan. 3.
- Heist, Stuart H., Penllyn, assignor to Penn Rubber Products Corporation, Philadelphia, Pa. Making battery jars. No. 1,414,326; Apr. 25.
- Heitler, Charles, et al. (See Waldmann, E., and Hokky, assignors.)
- Heitz, Benjamin W., Brainerd, Minn. Grain-car door. No. 1,440,077; Dec. 26.
- Heitz, Thomas E., Burwell, Nebr. Box closure. No. 1,408,699; Mar. 7.
- Held, Christ, et al. (See Siegfried, Joseph, assignor.)
- Held, Joseph, et al. (See Siegfried, Joseph, assignor.)
- Held, Siegfried, assignor of one-half to A. Kaestner, Chicago, Ill. Apparatus for ozonizing fluids. No. 1,420,838; June 27.
- Helden, John R., North Birmingham, assignor of one-half to M. A. Shields, Huntsville, Ala. Hanger. No. 1,433,616; Oct. 31.
- Heldreth, Joseph W., Wytheville, Va. Rail joint. No. 1,435,522; Nov. 14.
- Heldrich, Andrew, Philadelphia, Pa., assignor to Leskole Air Valve Company, Inc., New York, N. Y. Radiator vent valve. No. 1,403,162; Jan. 10.
- Helfer, Charles A., Los Angeles, Calif. Telemotor. No. 1,422,705; July 11.
- Helfrich, Albert B., Indianapolis, Ind. Scraping device. No. 1,409,949; Mar. 21.
- Helies, Frank B., Elizabeth, N. J. Lock and shield for foot mats. No. 1,406,186; Feb. 14.
- Héliot, Auguste, Troyes, France. Hosiery-finishing machine. No. 1,436,037; Nov. 21.
- Helle, Warren W., Hinsdale, assignor of one-half to A. Watters, Chicago, Ill. Spark-plug cleaner. No. 1,403,686; Jan. 17.
- Hellem, Nels, Portland, Oreg. Wrench. No. 1,414,949; May 2.
- Hellen, Jacob L., Kloften, Norway. Producing wheel. No. 1,423,109; July 18.
- Heller, Benjamin, Chicago, Ill. Meat preservative and making the same. No. 1,402,354; Jan. 3.
- Heller Brothers Company. (See Logan, Colin M., assignor.)
- Heller, Israel E., Buffalo, N. Y. Cloth-findings dispenser. No. 1,416,293; May 16.
- Heller, Jack, et al. (See Zeitlin, Alexandre, assignor.)
- Heller, Jacob E., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Extruding machine. No. 1,422,356; July 11.
- Heller, Jesse B., Haddon Heights, N. J., assignor to The De Laval Separator Company, New York, N. Y. Resolving emulsions. No. 1,412,738; Apr. 11.
- Heller, Jesse B., Wilkinsburg, Pa., assignor to R. W. Benson, New York, N. Y., L. Widmeier, Cleveland, Ohio, and R. J. Bryon. Electrically-actuated permutation mechanism and circuits controlled thereby. No. 1,425,063; Aug. 15.
- Heller, Jesse B., Wilkinsburg, Pa., assignor, by mesne assignments, to National Motor Control Co. Permutation mechanism. No. 1,427,381; Aug. 29.
- Heller, Jesse B., Lakewood, Ohio, assignor to National Motor Control Co. Permutation lock. No. 1,427,382; Aug. 29.
- Heller, Milton L., Brooklyn, N. Y. Waistband. No. 1,424,724; Aug. 1.
- Heller, Perry O., Prophetstown, Ill. Draft equalizer. No. 1,429,425; Sept. 19.
- Heller, Robert, Brooklyn, N. Y., assignor to Stanley Tire & Rubber Corporation of Delaware. Tire mold. No. 1,415,557; May 9.
- Heller, Samuel, et al. (See Zeitlin, Alexandre, assignor.)
- Hellesoe, Hans H., Chicago, Ill. Rubber type. No. 1,420,376; June 20.
- Hellman, Samuel J., Los Angeles, Calif. Tool holder. No. 1,412,284; Apr. 11.
- Hellmann, Lui F., and W. W. Baxter, assignors to Air Brake Safety Appliance Co., Indianapolis, Ind. Automatic railway safety control. (Reissue.) No. 15,343; Apr. 25.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regenerative control for single-phase motors. No. 1,411,023; Mar. 28.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,416,024; May 16.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for and method of accelerating induction motors. No. 1,417,731; May 30.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for and method of accelerating induction motors. No. 1,417,732; May 30.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,417,733; May 30.

Alphabetical list of patentees—Continued.

- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,417,734; May 30.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,421,229; June 27.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system for single-phase motors. No. 1,424,300; Aug. 1.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of speed control for induction machines. No. 1,425,652; Aug. 15.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. No. 1,431,952; Oct. 17.
- Hellmund, Rudolf E., and H. G. Jungk, Swissvale, Pa., assignors to Westinghouse Electric & Manufacturing Company. System of speed control for induction motors. No. 1,417,735; May 30.
- Hellsing, Johan A. (See Hed, E., and Hellsing.)
- Hellsing, Karl G. F., assignor to J. & C. G. Bolinders Mekaniska Verkstads Aktiebolag, Stockholm, Sweden. Forced-lubrication apparatus provided with pumps. No. 1,421,470; July 4.
- Hellstrom, Carl R., Minneapolis, Minn. Bag holder. No. 1,424,017; July 25.
- Hellweg, Henry, et al. (See Discher, Grant F., assignor.)
- Hellweg, Henry, Milwaukee, Wis. Box-tray support and lifter. No. 1,402,928; Jan. 10.
- Helm, Emil, Kitchener, Ontario, Canada. Traction device for vehicles. No. 1,429,589; Sept. 19.
- Helm, Erasmus, Tuxedo Park, N. Y. Clasp for garters, etc. No. 1,424,301; Aug. 1.
- Helmer, Glen W., Iliou, N. Y. Valve-grinding tool. No. 1,419,628; June 13.
- Helmholtz, Arthur W., Harrisburg, assignor to Continuous Process Coke Company, Chicago, Ill. Method of and means for distilling coal. No. 1,422,706; July 11.
- Helmick, Andrew C., Haviland, Kans. Corn husker. No. 1,413,025; Apr. 18.
- Helmick, Carroll, Fairmont, W. Va. Car tip and dumping apparatus. No. 1,408,941; Mar. 7.
- Helmick, Clarence E. (See Root, W. D., and Helmick.)
- Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,405,412; Feb. 7.
- Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,405,413; Feb. 7.
- Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,411,024; Mar. 28.
- Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machines. No. 1,414,738; May 2.
- Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,428,886; Sept. 12.
- Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,432,695; Oct. 17.
- Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,432,696; Oct. 17.
- Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,439,669; Dec. 19.
- Helms, Cassius B., assignor of forty per cent to I. M. Helms, Indianapolis, Ind. Folding swing. No. 1,424,302; Aug. 1.
- Helms, Ivan M. (See Helms, Cassius B., assignor.)
- Helsel, Josiah, Pittsburgh, Pa. Antiskid-tire-chain device. No. 1,404,856; Jan. 31.
- Helsel, Reuben H., Long Island City, assignor, by mesne assignments, to Automatic Ticket Register Corporation, New York, N. Y. Ticket-issuing machine. No. 1,435,062; Nov. 7.
- Helsel, Reuben H., Long Island City, assignor, by mesne assignments, to Automatic Ticket Register Corporation, New York, N. Y. Ticket-issuing machine. No. 1,435,231; Nov. 14.
- Helsel, Reuben H., Long Island City, assignor, by mesne assignments, to Automatic Ticket Register Corporation, New York, N. Y. Ticket or transfer coupon-issuing apparatus. No. 1,436,764; Nov. 28.
- Helteth, Isak, Thief River Falls, Minn. Incinerating furnace. No. 1,403,243; Jan. 10.
- Helske, Taavi, San Francisco, Calif. Switch box. No. 1,424,407; Aug. 1.
- Helsley, Nimrod A., Grafton, W. Va. Record holder. No. 1,429,076; Sept. 12.
- Holt, Edward H., Bellevue Borough, Pa. Automatic sales apparatus. No. 1,428,589; Sept. 12.
- Heltzel, Joseph W., Warren, Ohio. Concrete mixer. No. 1,427,955; Sept. 5.
- Heltzel, Joseph W., Warren, Ohio. Machine for making concrete pavement. No. 1,427,956; Sept. 5.
- Helvey, Oliver J., Buffalo, N. Y. Reflector. No. 1,408,597; Mar. 7.
- Helwitz, Edward B., Wausau, Wis. Rubber tip for French heels. No. 1,439,104; Dec. 19.
- Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Spring scale. No. 1,404,765; Jan. 31.
- Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. No. 1,404,766; Jan. 31.
- Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. No. 1,411,213; Mar. 28.
- Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. No. 1,423,660; July 25.
- Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Dynamometer. No. 1,424,357; Aug. 1.
- Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. No. 1,437,517; Dec. 5.
- Hembree, Guy L., Boise, Idaho. Agricultural tool. No. 1,417,901; May 30.
- Hemelmann, Hugo, Hanover, Germany. Colloidal solution and preparing same. No. 1,429,876; Sept. 19.
- Hemfling, John A., Lester Prairie, Minn. Shade and curtain bracket. No. 1,417,247; May 23.
- Hemingway, Richard A., Memphis, Tenn. Scale. No. 1,402,606; Jan. 3.
- Hemleb, Martin, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Starting and stopping mechanism for power-driven machines. No. 1,409,444; Mar. 14.
- Hemleb, Martin, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Motor-driven sewing machine. No. 1,409,950; Mar. 21.
- Hemleb, Martin, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Electrically-controlled sewing machine. No. 1,409,951; Mar. 21.
- Hemleb, Martin, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Motor attachment for sewing machines. No. 1,433,719; Oct. 31.
- Hemming, Carl H. (See Hemming, Frank P. and C. H.)
- Hemming, Carl H., New Haven, Conn. Cutlery-polishing machine. No. 1,422,358; July 11.
- Hemming, Frank P. and C. H., New Haven, Conn. Cutlery-grinding machine. No. 1,439,889; Dec. 26.
- Hemming, Gustav F., deceased, New Haven, Conn.; T. L. Hemming, administratrix. Polishing compound for finishing table cutlery. No. 1,422,707; July 11.
- Hemming, Theresa L., administratrix. (See Hemming, Gustav F.)
- Hempe, Harry. (See Molloy, J. T., and Hempe.)
- Hempel, Aage J. N., and O. A. E. Jacobsen, Durban, Natal, South Africa. Carburetor. No. 1,407,155; Feb. 21.
- Hemphill Company. (See Bosworth, G. P., and Gunning, assignors.)
- Hemphill Company. (See Bosworth, George P., assignor.)
- Hemphill Company. (See Jones, Frank E., assignor.)
- Hemphill Company. (See Landry, Aidel, assignor.)
- Hemphill Company. (See Lawson, John, assignor.)
- Hemphill, Robert C. (See Delph, A. G., and Hemphill.)
- Hemphill, Robert H., Charleston, S. C. Obtaining pure liquids in a frozen state. No. 1,437,518; Dec. 5.
- Hempy, George L., Truro township, Franklin County, assignor of one-half to O. H. Mosier, Columbus, Ohio. Traction wheel. No. 1,404,392; Jan. 24.
- Hempy, Wilbur J., Ottawa, Kans., assignor to Hempy-Cooper Manufacturing Company. Boring machine. No. 1,407,031; Feb. 21.
- Hempy, Wilbur J., Kansas City, Mo., assignor to Hempy-Cooper Manufacturing Company. Combination boring and facing machine. No. 1,426,987; Aug. 22.
- Hempy-Cooper Manufacturing Company. (See Daily, Earl L., assignor.)
- Hempy-Cooper Manufacturing Company. (See Hempy, Wilbur J., assignor.)
- Hemshewski, Albert, Coal Valley, Ill., assignor of one-fifth to E. Shumilo, Neffs, Ohio. Table. No. 1,427,383; Aug. 29.
- Hemsing, Maurice A., and M. H. Christopherson, Davenport, Iowa. Priming device for heating systems. No. 1,436,038; Nov. 21.
- Hemstreet, George P., Hastings-on-Hudson, N. Y., assignor to International Pavement Co., Hartford, Conn. Grapple. No. 1,413,225; Apr. 18.
- Hemstreet, William F., Brooklyn, N. Y. Telephone lock. No. 1,440,078; Dec. 26.
- Henault, Nellie O., Butte, Mont. Milliner's shears. No. 1,432,246; Oct. 17.
- Hendee Manufacturing Company. (See Franklin, Charles B., assignor.)
- Hendel, William H., assignor to Western Wind Shield Works, Minneapolis, Minn. Windshield protector. No. 1,436,314; Nov. 21.
- Henderson, Albert F., Middleton, Mass. Surgical patch. No. 1,434,779; Nov. 7.
- Henderson, Arthur B., Hurley, N. Mex. Work holder. No. 1,421,230; June 27.
- Henderson, Clark T., Youngstown, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Braking system for printing presses and other machines. No. 1,427,461; Aug. 29.
- Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-control system. No. 1,434,055; Oct. 31.
- Henderson, Edward P., Daytona, Fla. Resilient tire. No. 1,434,118; Oct. 31.
- Henderson, Emma, Harpersfield, N. Y. Clothespin bag. No. 1,402,355; Jan. 3.
- Henderson, Frank, Auckland, New Zealand. Hat fastener. No. 1,403,118; Jan. 10.
- Henderson, Fritz, et al. (See Engelbrecht, Gustaf, assignor.)

Alphabetical list of patentees—Continued.

- Henderson, George, Dorchester, Mass. Container. No. 1,435,393; Nov. 14.
- Henderson, George A., St. Albans, W. Va. Aeroplane. No. 1,405,917; Feb. 7.
- Henderson, George A., and H. K. Stephenson, St. Albans, W. Va., assignors to The International Bituconcrete Company. Pavement and making same. No. 1,409,104; Mar. 7.
- Henderson, George K., Indianapolis, Ind. Metal wheel and tire rim. No. 1,411,783; Apr. 4.
- Henderson, George K., assignor to International Printing Company, Indianapolis, Ind. Carton sealer. No. 1,424,018; July 25.
- Henderson, George M., Farrell, Pa. Reel. No. 1,406,010; Feb. 7.
- Henderson, Henry J., Victoria, British Columbia, Canada. Apparatus and process for producing dental impressions. No. 1,437,844; Dec. 5.
- Henderson, Hiram L. (See Henderson, Nelson H. and H. L.)
- Henderson, Howard L., Terre Haute, Ind. Bearing alarm. No. 1,427,593; Aug. 29.
- Henderson, J. L., et al. (See Gagnon, Peter J., Jr., assignor.)
- Henderson, James B., Lee, England. Hydraulic relay for gun mountings and the like. No. 1,413,162; Apr. 18.
- Henderson, John J., et al. (See Malloy, James T., assignor.)
- Henderson, Justin. (See Tregoe, B. B., and Carroll, assignors.)
- Henderson, Martin E., Manor, Ga. Attachment for evaporating kettles. No. 1,431,523; Oct. 10.
- Henderson, Morris O., Story City, Iowa. Dumping device and process. No. 1,415,640; May 9.
- Henderson, Nelson H. and H. L., Syracuse, N. Y. Dry kiln. No. 1,422,202; July 11.
- Henderson, Olive G., Detroit, Mich. Desk and chair. No. 1,423,661; July 25.
- Henderson, Robert H., East Orange, N. J. Collapsible joint-boring machine. No. 1,426,476; Aug. 22.
- Henderson, Thomas R., San Francisco, Calif. Conveyor dispensing system. No. 1,411,432; Apr. 4.
- Henderson, William M. (See Psilander, C. A., and Henderson.)
- Henderson, William M., Easton, assignor to William Wharton, Jr., & Co., Incorporated, Easton, Pa. Tractor wheel. No. 1,419,050; June 6.
- Henderson, Yandell, New Haven, and H. W. Haggard, Woodbridge, Conn. Deodorizing offensive gaseous emanations from organic matter. No. 1,410,249; Mar. 21.
- Henderson-Willis Welding and Cutting Company. (See Dorsey, Farmer, assignor.)
- Hendey Machine Company. (See Bouillon, Constant, assignor.)
- Hendrich, Max, San Francisco, Calif. Waterproofing composition. No. 1,437,893; Dec. 5.
- Hendricks, Allan B., Jr., Pittsfield, Mass., assignor to General Electric Company. Switch mechanism. No. 1,410,002; Apr. 4.
- Hendricks, Charles E. (See Henry, F. A., and Hendricks.)
- Hendricks, Clarence J., Fertile, Minn. Clip. No. 1,427,736; Aug. 29.
- Hendricks, Frank, Jacksonville, Fla. Folding egg crate. No. 1,404,857; Jan. 31.
- Hendricks, Henry S., assignor of one-third to R. N. Hendricks, New York, N. Y., and one-third to R. E. Naumberg, Winchester, Mass. Controller for conveying mechanism. No. 1,438,112; Dec. 5.
- Hendricks, Rosalie N., et al. (See Hendricks, Henry S., assignor.)
- Hendricks, Walter L., Aurora, Ill. Harvesting machine. No. 1,424,746; Aug. 1.
- Hendrickson, David, Berkeley, Calif. Automatic coin selector. No. 1,428,632; Sept. 12.
- Hendrickson, Henry, Stephen, Minn. Comb. No. 1,409,855; Mar. 14.
- Hendrickson, Henry, Telluride, Colo. Calipers. No. 1,430,990; Oct. 3.
- Hendrickson, Peter H., Coeur d'Alene, Idaho. Starter for automobiles. No. 1,404,121; Jan. 17.
- Hendrickson, Peter H., Coeur d'Alene, Idaho. Shock absorber. No. 1,437,417; Dec. 5.
- Hendrickson, Robert A., assignor to Indianapolis Saddlery Company, Indianapolis, Ind. Drying and feeding mechanism for pasted strips. No. 1,428,329; Sept. 5.
- Hendrickson, Robert O., assignor to J. I. Case Plow Works Company, Racine, Wis. Internal-combustion engine. No. 1,407,694; Feb. 28.
- Hendrickson, Robert O., assignor to J. I. Case Plow Works Company, Racine, Wis. Seat support. No. 1,433,720; Oct. 31.
- Hendrickson, Robert O., and K. E. Moree, assignors, by mesne assignments, to J. I. Case Plow Works Company, Racine, Wis. Flanging machine. No. 1,420,427; June 20.
- Hendrix, Thomas A. J., Fulton, Wheeling, W. Va. Button. No. 1,410,916; Mar. 28.
- Hendry, A. N. (See Musgrave, Charles A., assignor.)
- Hendry, William, Tacoma, Wash. Jack. No. 1,409,377; Mar. 14.
- Hendry, William F., assignor to Western Electric Company, Inc., New York, N. Y. Manufacturing audions. No. 1,426,734; Aug. 22.
- Hendry, William F., New York, and C. E. Reddig, Richmond Hill, assignors to Western Electric Company, Incorporated, New York, N. Y. Method and apparatus for recording pressure. No. 1,426,735; Aug. 22.
- Henemier, Robert H., New York, N. Y. Horseshoe pad. No. 1,402,768; Jan. 10.
- Henemier, Robert H., New York, assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Gauge. No. 1,411,727; Apr. 4.
- Henerlau, George C., Newark, N. J. Dental floss holder. No. 1,417,518; May 30.
- Hengesbaugh, Lewis M. (See McQueen, Francis W., assignor.)
- Henggi, Lewis O., Oakmont, Pa., assignor to The P. & M. Company, Chicago, Ill. Creep check. (Reissue.) No. 15,421; July 25.
- Hengst, Fredrick G., Covina, Calif. Cultivator. No. 1,417,351; May 23.
- Hengstenberg, Paul M., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fuse. No. 1,404,858; Jan. 31.
- Hengstenberg, Paul M., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Terminal. No. 1,437,103; Nov. 28.
- Heninger, Otto, Toledo, Ohio. Brake-shoe key lock. No. 1,435,523; Nov. 14.
- Henke, Anthony, et al. (See Haynes, Guy R., assignor.)
- Henke, William F., Norwood, assignor to The Cincinnati Frog & Switch Company, Cincinnati, Ohio. Extension-rail clamp. No. 1,427,737; Aug. 29.
- Henker, Otto, Jena, Germany. Medical appliance. No. 1,429,426; Sept. 19.
- Henker, Otto, assignor to the Firm of Carl Zeiss, Jena, Germany. Machine for angular grinding spectacle glasses. No. 1,409,546; Mar. 14.
- Henker, Otto, assignor to the Firm of Carl Zeiss, Jena, Germany. Machine for grinding beveled rim surfaces on spectacle glasses. No. 1,422,055; July 4.
- Henkle, Frank A., Pomona, Calif. Spark plug. No. 1,425,476; Aug. 8.
- Henn, Frank S. (See Aust, Paul P., assignor.)
- Henneberg, Henry W., Chicago, Ill. Clothes wringer. No. 1,437,845; Dec. 5.
- Henneking, Carl, Magdeburg, Germany. Wall-climbing device. No. 1,427,384; Aug. 29.
- Hennessy, Francis W., Providence, R. I. Roof-edging device. No. 1,430,446; Sept. 26.
- Hennessy, James F., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Fabric-cutting apparatus. No. 1,423,798; July 25.
- Hennessy, James J., New York, N. Y. Journal bearing for car axles. No. 1,403,163; Jan. 10.
- Hennessy, James J., New York, N. Y. Lubricator for locomotive journals. No. 1,412,739; Apr. 11.
- Hennessy, James J., New York, N. Y. Locomotive-journal lubricator. No. 1,412,740; Apr. 11.
- Hennessy, James J., New York, N. Y. Lubricator for locomotive journals. No. 1,412,741; Apr. 11.
- Hennessy, James J., New York, N. Y. Locomotive journal lubricator. No. 1,416,710; May 23.
- Hennessy, James J., New York, N. Y. Journal lubricator. No. 1,423,850; July 25.
- Hennessy, James J., New York, N. Y. Journal lubricator. No. 1,423,851; July 25.
- Hennessy, James J., New York, N. Y. Journal lubricator. No. 1,430,372; Sept. 26.
- Hennessy, Michael, et al. (See Maxwell, Smith, assignor.)
- Hennigan, Albert, Brooklyn, N. Y. Fan belt. No. 1,414,278; Apr. 25.
- Henning, Albert, Leytonstone, London, England. Valve and cap for drums and the like vessels. No. 1,435,004; Nov. 7.
- Henning, Arthur, et al. (See Kammerer, Mathias and J. M., assignors.)
- Henning, Georg, Bergedorf, near Hamburg, Germany. Boring and stuffing machine for broom and brush heads. No. 1,426,382; Aug. 22.
- Henning, Joseph, Newburgh, N. Y. Attachment for tool holders. No. 1,419,967; June 20.
- Henning, Peter A., Jr., Zumbrota, assignor to Moyer Manufacturing Company, Montevideo, Minn. Stanchion. No. 1,408,294; Feb. 28.
- Henninger, Ludwig, assignor to Badische Maschinenfabrik & Eisengiesserei vormals G. Sebold and Sebold & Neff, Durlach, Germany. Match-making machine. No. 1,415,641; May 9.
- Henninger, Ludwig, Durlach, Germany, assignor to Badische Maschinenfabrik & Eisengiesserei vorm. G. Sebold and Sebold & Neff, Durlach, Baden, Germany. Collecting apparatus for automatic matchmaking machine. No. 1,419,732; June 13.
- Henninger, Philip E., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Machine element. No. 1,421,231; June 27.
- Hennings, Charles H., Chicago, Ill. Gasket cutter. No. 1,430,373; Sept. 26.
- Henny, Frank A., and C. E. Hendricks, Flint, Mich. Saw. No. 1,403,411; Jan. 10.
- Henoch, Milton, La Porte, Ind., assignor to Westinghouse Electric & Manufacturing Company. Apartment-house range. No. 1,431,953; Oct. 17.
- Henon, John D., Philadelphia, Pa. Dyeing apparatus. No. 1,433,276; Oct. 24.

Alphabetical list of patentees—Continued.

- Henri, Theodore, New York, N. Y. Combined level and grade finder. No. 1,404,393; Jan. 24.
- Henrichs, Herman, St. Louis, Mo. Combined protractor and scale. No. 1,409,342; Mar. 14.
- Henricks, Garrett W., Indianapolis, Ind., assignor of two-thirds to G. F. Kreitlein, Los Angeles, Calif. Vacuum spark amplifier. No. 1,406,853; Feb. 14.
- Henricks, George, Kremmling, Colo. Milking strap. No. 1,436,253; Nov. 21.
- Henricson, Edward A., Chicago, Ill. Seat indicator for theaters. No. 1,425,255; Aug. 8.
- Henricson, Fred W., Philadelphia, Pa. Slot-closing device. No. 1,437,418; Dec. 5.
- Henrie, George M., assignor of one-third to J. W. Stoverink and one-third to W. A. Mueller, St. Louis, Mo. Spring wheel. No. 1,420,839; June 27.
- Henriksen, Robert E., and A. Jensen, Korsor, Denmark. Two-stroke-cycle engine. No. 1,440,154; Dec. 26.
- Henrikson, Frank W., Mulberry, Kans. Flying switch. No. 1,424,198; Aug. 1.
- Henry, C. P., Novelty Company. (See Henry, C. P., and Harmer, assignors.)
- Henry, Charles P., Providence, and P. Harmer, Cranston, assignors to J. N. Henry, Providence, R. I., doing business as C. P. Henry Novelty Company. Curtain rod. No. 1,438,490; Dec. 12.
- Henry, Charles W., jr., Vandergrift, Pa. Mortar rake for bricklayers and masons. No. 1,436,254; Nov. 21.
- Henry, Floyd E., Salina, Kans. Furniture-leveling device. No. 1,435,606; Nov. 14.
- Henry, George, San Francisco, Calif. Check and money-order case. No. 1,420,260; June 20.
- Henry, George J., et al. (See Fredrick, Hugo E., assignor.)
- Henry, George J., et al. (See Fredrick, Hugo E. J., assignor.)
- Henry, George W., Jr., assignor to Soabar Company, Philadelphia, Pa. Chase for ticketing machines. No. 1,403,321; Jan. 10.
- Henry, George W., jr., assignor to H. G. Davis Manufacturing Company, Philadelphia, Pa. Ticketing machine. No. 1,432,554; Oct. 17.
- Henry, Georges E., assignor to The Ohio Brass Company, Mansfield, Ohio. Winding mechanism. No. 1,413,582; Apr. 25.
- Henry, James A. (See Wait, Thaddeus S., assignor.)
- Henry, James A., assignor of one-half to T. S. Wait, Sturgis, Mich. Curtain fixture. No. 1,438,439; Dec. 12.
- Henry, James E., New York, N. Y. Vulcanizer. No. 1,411,095; Mar. 28.
- Henry, Jesse P., assignor to L. B. Tebbetts & Company, Incorporated, St. Louis, Mo. Key clasp. No. 1,425,089; Aug. 8.
- Henry, Louis I., Toulon, France. Self-leveling apparatus. No. 1,404,523; Jan. 24.
- Henry, Mary L., Jacksonville, Ill. Hair curler. No. 1,402,356; Jan. 3.
- Henry, Nelson B., Atlanta, Ga., assignor to The Murray Company, Dallas, Tex. Trumper for cotton presses. No. 1,402,357; Jan. 3.
- Henry, Nelson B., Atlanta, Ga., assignor to The Murray Company, Dallas, Tex. Compress for cotton and other materials. No. 1,402,358; Jan. 3.
- Henry, Raymond W., Hollisopple, Pa. Traction device for motor vehicles. No. 1,404,767; Jan. 31.
- Henry, Robert G. (See Bayer, William J., assignor.)
- Henry Wilhelm Company. (See Maussner, Frederick, assignor.)
- Henry, William, Philadelphia, Pa. Dustproof oil ring. No. 1,422,972; July 18.
- Henry, William, and I. Bassford; said I. Bassford assignor of one-sixth to G. W. Bassford, and said Henry assignor of one-third to E. Hall and one-twelfth to J. C. Perrin, Wellburg, W. Va. Bottle-blowing machine. No. 1,437,178; Nov. 28.
- Hensel, William F., Chicago, Ill. Stabilizer. No. 1,430,374; Sept. 26.
- Henshaw, Charles S., Boston, Mass. Advertising device. No. 1,414,017; Apr. 25.
- Henshaw, Seth B., Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Means for filling glass melting tanks. No. 1,409,716; Mar. 14.
- Hensler, Arthur C., et al. (See Evans, Fred, assignor.)
- Hensley, Albert A., Shadypoint, Okla. Combination fence post and brace. No. 1,408,506; Mar. 7.
- Hensley, Charles G. (See Hart, Sidney H., assignor.)
- Hensley, Edwin L., San Francisco, Calif. Vehicle wheel. No. 1,413,115; Apr. 18.
- Hensley, Eli, Wild Horse District, Okla. Pull-rod coupling. No. 1,431,304; Oct. 10.
- Hensley, Lee W., Mexia, Tex. Hub attachment. No. 1,407,533; Feb. 21.
- Hensoldt, Carl, Wetzlar, Germany. Extensible pocket microscope with variable enlargement and with fine adjustment. No. 1,418,645; June 6.
- Hentschel, Paul J., Baltimore, Md. Bottle stopper. No. 1,410,250; Mar. 21.
- Hennis, Garnett J., Philadelphia, Pa. Cowl ventilator. No. 1,412,613; Apr. 11.
- Henze, Hubert A., Brooklyn, N. Y. Motor meter. No. 1,409,105; Mar. 7.
- Henze, Paul, Kamsack, Saskatchewan, Canada. Steering device. No. 1,439,816; Dec. 26.
- Hepburn Decarbonizer Company. (See Hepburn, Donald M., assignor.)
- Hepburn, Donald M., Akron, Ohio, assignor to Hepburn Decarbonizer Company, New York, N. Y. Decarbonizing valve for internal-combustion engines. No. 1,405,843; Feb. 7.
- Hepburn, George G., Chorlton-cum-Hardy, Manchester, England. Softening of water. No. 1,426,638; Aug. 22.
- Hepler, Irvin F., Tyrone, Pa. Recording device. No. 1,411,698; Apr. 4.
- Hepner, Moritz, assignor to Firm Jaroslaw's Erste Glimmerwaren-Fabrik in Berlin, Berlin, Germany. Diaphragm for acoustic apparatus. No. 1,435,843; Nov. 14.
- Hepworth, S. S., Company, et al. (See Mackintosh, Edward D., assignor.)
- Hequembourg, Harry C., et al. (See Ball, Arlington L., assignor.)
- Herbeck, Emil, New York, N. Y. Lamp stand. No. 1,427,462; Aug. 29.
- Herbermann, Alfred A., New York, N. Y. Crate for eggs or the like. No. 1,412,742; Apr. 11.
- Herbert, Charles C., assignor to W. E. Ward, San Jose, Calif. Fruit-pitting machine. No. 1,438,526; Dec. 12.
- Herbert, Eustace G., Brooklyn, N. Y. Collapsible dress form. No. 1,436,500; Nov. 21.
- Herbert, Fred S., Colorado Springs, Colo. Handle. No. 1,428,285; Sept. 5.
- Herbert, George H., St. Petersburg, Fla. Liquid automobile and furniture polish. No. 1,411,353; Apr. 4.
- Herbert, Joseph I., Chicago, Ill. Heating apparatus. No. 1,416,025; May 16.
- Herbert, William C., Brooklyn, N. Y. Gas heater. No. 1,404,151; Jan. 17.
- Herbert, William J. S., and C. A. Fetzer, assignors to The Orrville Bedding Company, Orrville, Ohio. Mattress, cushion, or pad cover. No. 1,435,640; Nov. 14.
- Herbst, Abram W., and C. C. J. Culmer, assignors to Economy Hoist & Body Co., Inc., New York, N. Y. Dumping truck. No. 1,420,315; June 20.
- Herbst, Kaj T. (See Lundsgaard, C. J. S., and Herbst.)
- Hercules Carburetor Company. (See Leahy, Herbert V., assignor.)
- Hercules Explosives Corporation. (See Brewster, Rouse K., assignor.)
- Hercules Manufacturing Company. (See Berkeley, Laurence J., assignor.)
- Hercules Powder Company. (See Crane, Arthur H., assignor.)
- Hercules Products Company. (See Berry, R. S., and Rushton, assignors.)
- Hercules Rubber Corporation. (See Lambert, Chris H., assignor.)
- Herd, Adolph, Youngstown, Ohio. Garment marker. No. 1,414,643; May 2.
- Herdlicka, Robert, Chicago, Ill. Ventilator. No. 1,427,463; Aug. 29.
- Herditchka, Lester J., Humboldt, Nebr. Power posthole auger. No. 1,406,187; Feb. 14.
- Herds, Edwin, Detroit, Mich. Tricycle or three-wheel motor vehicle. No. 1,424,822; Aug. 8.
- Hertford, Jacob K., Sioux City, Iowa. Spring oiler. No. 1,412,743; Apr. 11.
- Herge, Frank. (See Cline, M., and Herge.)
- Herge, Frank. (See Cline, M. L., and Herge.)
- Herger, Michael, Tonopah, Nev. Horseshoe. No. 1,428,167; Sept. 5.
- Herrick, John, Kansas City, Mo. Handle-fastening device. No. 1,410,755; Mar. 28.
- Hering, Fredrick N., assignor to T. Howard, New York, N. Y. Luminous composition. No. 1,407,534; Feb. 21.
- Hering, Max, Ronneburg, Sachsen-Altenburg, Germany. Manufacturing carrier rings for solid-rubber tires. No. 1,413,331; Apr. 18.
- Herink, Henry J., assignor to The Relay Automatic Telephone Company, Limited, London, England. Telephone system. No. 1,424,644; Aug. 1.
- Herkel, John W., Middleville, and J. D. McCoy, Little Falls, N. Y. Guard for leather-pressing machines. No. 1,432,857; Oct. 24.
- Herkert, Theodore, Chicago, Ill. Holding device. No. 1,434,614; Nov. 7.
- Herkst, Ernst, Kiel-Hassee, assignor to Fried. Krupp Aktiengesellschaft Germaniawerk, Kiel-Gaarden, Germany. Compressed-air starting arrangement for internal-combustion engines. No. 1,413,583; Apr. 25.
- Herman, Carl R., assignor to The Morris Automatic Scale Company, Crafton, Pa. Scale. No. 1,411,495; Apr. 4.
- Herman, Carl R., assignor to The Morris Automatic Scale Company, Crafton, Pa. Electromagnetic device. No. 1,438,240; Dec. 12.
- Herman, Harry W., Cleveland, Ohio. Valve-operating mechanism. No. 1,427,385; Aug. 29.
- Herman, Jacob W., and J. A. Hyle, Philadelphia, Pa. Metallic railway cross-tie. No. 1,403,244; Jan. 10.
- Herman, John, Los Angeles, Calif. Water-cooled bearing. No. 1,424,097; July 25.
- Herman, John, Los Angeles, Calif. Veneering apparatus. No. 1,428,692; Sept. 12.
- Herman, John, Philadelphia, Pa. Trundling toy. No. 1,432,697; Oct. 17.
- Herman, John H., Breckenridge, Tex. Earth-boring apparatus. No. 1,410,674; Mar. 28.
- Herman, Joseph L., Peoria, Ill. Coating and treating materials having an iron base. No. 1,430,648; Oct. 3.

Alphabetical list of patentees—Continued.

- Herman, Joseph L., Peoria, Ill. Coating and treating materials having an iron base. No. 1,430,649; Oct. 3.
- Herman, Joseph L., Peoria, Ill. Coating and treating materials having an iron base. No. 1,430,650; Oct. 3.
- Herman, Joseph L., Peoria, Ill. Coating and treating materials having an iron base. No. 1,430,651; Oct. 3.
- Hermen, Karl, Chester, Pa. Pump. No. 1,423,852; July 25.
- Herman, Meyer, Chicago, Ill. Scaffold. No. 1,404,394; Jan. 24.
- Hermani, Henry, assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Double-seaming machine. No. 1,438,241; Dec. 12.
- Herrmann, Otto, assignor to Supreme Electric Hair Cutter Corporation, Springfield, Mass. Hair-cutting apparatus. No. 1,407,748; Feb. 28.
- Hermanns, Hubert, Berlin-Pankow, Germany. Casting apparatus. No. 1,415,348; May 9.
- Hermanson, Herman, Minden, Nebr. Wagon body. No. 1,435,963; Nov. 21.
- Hermelink, Herman, Jr., and R. B. Shiffler, Kansas City, Mo. Barrel lift. No. 1,420,546; June 20.
- Hermoye, Oscar, and C. Glorian, Brussels, Belgium. Hollow body from concrete and its application for concrete constructions. No. 1,412,113; Apr. 11.
- Hernsdorf, Walter H., assignor to Solomon H. Goldberg, Chicago, Ill. Hairpin-forming machine and forming hairpins. No. 1,410,675; Mar. 28.
- Hern, Albert H. F., London, England. Lifting jack. No. 1,429,945; Sept. 26.
- Hern, Jay J. (See Arey, S. E., Hern, and McFadden.)
- Hernacki, John. (See Landgraf, C., and Hernacki.)
- Herndl, Max, Black Lick, Ohio. Silo. No. 1,437,657; Dec. 5.
- Hernmarck, Arvid G. M., et al. (See Löfgren, Albert O. M., assignor.) (Reissue.)
- Hernu, Henri, Meudon, France. Apparatus for purifying and treating gases. No. 1,408,736; Mar. 7.
- Hernu, Henri, Meudon, France. Centrifugal propeller. No. 1,408,737; Mar. 7.
- Hero, Numa C., New Orleans, La. Drying machine. No. 1,403,778; Jan. 17.
- Herold, Walter F., Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster wheel. No. 1,405,565; Feb. 7.
- Herold, Walter F., Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster for trucks, etc. No. 1,410,676; Mar. 28.
- Herold, Walter F., Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster. No. 1,410,677; Mar. 28.
- Herold, Walter F., Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster. No. 1,418,711; June 6.
- Herold, Walter F., Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster for cylindrical rail furniture. No. 1,436,802; Nov. 28.
- Heron, James C., Brentwood, F. H. Bragdon, Oakmont, and W. J. Clark, Pittsburgh, Pa. Fiber keg or barrel. No. 1,439,890; Dec. 26.
- Heroy, Walter W. (See Shoppe, F. L., Hedges, and Heroy.)
- Heroy, Walter W., Bloomfield, N. J. Method and means for silencing fluid in conduits. No. 1,432,462; Oct. 17.
- Herpin, Edward P., De Quincy, La., assignor of one-half to Apolenaire Ozias Bordelon, Bay Saint Louis, Miss. Carbureting burner. No. 1,403,954; Jan. 17.
- Herpst, Harold D., Cleveland, Ohio, and S. L. Smith, Pittsburgh, Pa. Folding shelf. No. 1,402,920; Jan. 10.
- Herpst, Herman A., Norway, Mich. Dirigible headlight for automobiles. No. 1,436,959; Nov. 28.
- Herr, Frederick E., Barborton, Ohio. Door-mat-operated animated figure. No. 1,429,506; Sept. 19.
- Herr, Park A., Hillside, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Bobbin-winding machine. No. 1,430,079; Sept. 26.
- Herr, Park A., Hillside, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Feed hopper for bobbin-winding machines. No. 1,440,295; Dec. 26.
- Herr, Shirl, assignor to Crawfordsville Seed Company, Crawfordsville, Ind. Seed-reclaiming process. No. 1,405,690; Feb. 7.
- Herre, Alfred. (See Bauer, W., and Herre.)
- Herreshoff, Alexander G., and A. H. Leipert, New York, N. Y. Universal joint. No. 1,414,411; May 2.
- Herrick, Bert L., Oakland, Calif. Creeper. No. 1,420,101; June 20.
- Herrick, Bert L., Oakland, Calif. Bag or net fastener. No. 1,430,806; Oct. 3.
- Herrick, Frank A., Toledo, Ohio. Box handle and cover-opening means. No. 1,432,023; Oct. 17.
- Herrick, Grace T., Palo Alto, Calif. Safe. No. 1,402,066; Jan. 3.
- Herrick, William H., Indianapolis, assignor of one-half to H. B. Miller, Cambridge City, Ind. Child's vehicle. No. 1,418,569; June 6.
- Herring-Hall Marvin Safe Company. (See Millice, Paul S., assignor.)
- Herring, Paul S., Chicago, Ill. Pump. No. 1,406,859; Feb. 14.
- Herrly, Clarence J., Pittsburgh, Pa., assignor to Union Carbide Company. Oxidizing ferrous sulphate. No. 1,430,551; Oct. 3.
- Herrmann, Charles, assignor to Charles Cory & Son, Incorporated, New York, N. Y. Annunciator drop. No. 1,439,817; Dec. 26.
- Herrmann, Henri, Paris, France. Manufacturing electrical collectors, commutators, controllers, or interrupters or equivalent devices. No. 1,426,293; Aug. 15.
- Herrmann, Hugo O., Cincinnati, Ohio. Child's go-cart. No. 1,411,496; Apr. 4.
- Herrmann, Joseph, Buffalo, N. Y. Carrying rack for automobile curtains. No. 1,420,699; June 27.
- Herrmann, Kurt, Leipzig, Germany. Flying machine. No. 1,426,639; Aug. 22.
- Herrmann, Raymond R., St. Paul, Minn., assignor to Western Electric Company, Incorporated, New York, N. Y. Testing transmitters. No. 1,412,405; Apr. 11.
- Herold, Charles D. (See Margeson, E. A., and Herold.)
- Herton, James C., assignor to Reflector & Illuminating Co., Chicago, Ill. Joint for electrical conduits. No. 1,425,011; Aug. 8.
- Herron, James H. Company, The. (See Holmberg, Edgar T., assignor.)
- Herron, William L., Hartford, Conn., assignor, by mesne assignments, to Carbic Manufacturing Company, Duluth, Minn. Blowpipe. No. 1,412,243; Apr. 11.
- Herry, Park A., Hillside, N. J., assignor to The Singer Manufacturing Company. Thread-controlling mechanism for sewing machines. No. 1,402,930; Jan. 10.
- Hershberger, David C., Turtle Creek, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,437,104; Nov. 28.
- Hershey Manufacturing Company. (See Hershey, Orville S., assignor.)
- Hershey, Orville S., Denver, Colo., assignor to Hershey Manufacturing Company. Automobile lock. No. 1,417,603; May 30.
- Hershey, Orville S., Stoughton, Wis., assignor to Hershey Manufacturing Company, Denver, Colo. Automobile lock. No. 1,433,548; Oct. 31.
- Herson, Armand, Meudon, France, assignor to O. Auger, Ville La Salle, Quebec, Canada. Walking chair for children. No. 1,437,179; Nov. 28.
- Hersperger, Elizabeth S., Washington, D. C. Garter. No. 1,415,030; May 9.
- Herstein, Bernard, Brooklyn, N. Y. Parchment paper or vulcanized fiber and making same. No. 1,429,427; Sept. 19.
- Hertel, William, St. Louis, Mo. Frame for motor-car curtains. No. 1,417,994; May 30.
- Hertenstein, Charles, Chicago, Ill. Fishing-line reel. No. 1,420,428; June 20.
- Hertrich, William F., and W. G. Neubeck, New York, N. Y. Illuminated sign. No. 1,406,646; Feb. 14.
- Herth, Edwin W. (See Herth, Theodore B., and E. W.)
- Herth, Theodore B. and E. W., Cincinnati, Ohio. Calendar attachment for timepieces and the like. No. 1,402,495; Jan. 3.
- Herting, Charles F. C., Berkeley, Calif. Refining crude carbon. No. 1,416,955; May 23.
- Hertlein, George A., Maywood, Ill. Air gun. No. 1,403,029; Jan. 10.
- Hertz, Stanislas, Paris, France. Lifting truck. No. 1,430,992; Oct. 3.
- Hertzberg, William, Brooklyn, N. Y. Index-card holder. No. 1,422,973; July 18.
- Hervey, Charles A., Lansing, Mich. Ignition lock for automobiles. No. 1,408,295; Feb. 28.
- Hervig, Richard. (See Wolnick, H. F., and Hervig.)
- Hervig, Richard, Chicago, Ill., assignor to American Car and Foundry Company, New York, N. Y. Drill-twisting machine. No. 1,405,414; Feb. 7.
- Hervig, Richard, Chicago, Ill., assignor to American Car and Foundry Company, New York, N. Y. Lathe attachment. No. 1,432,247; Oct. 17.
- Herzberg, Wilhelm, Berlin-Wilmersdorf, and O. Scharfenberg, Berlin-Schöneberg, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Orthooxyazo dyes for wool. No. 1,408,296; Feb. 28.
- Herzberg, Wilhelm, Berlin-Wilmersdorf, and O. Scharfenberg, Berlin-Schöneberg, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Orthooxyazo dyes. No. 1,408,297; Feb. 28.
- Herzberg, Wilhelm, Berlin-Wilmersdorf, and O. Scharfenberg, Berlin-Schöneberg, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Orthooxyazo dye. No. 1,419,501; June 13.
- Herzberg, Wilhelm, Berlin-Wilmersdorf, and G. Hoppe, Berlin-Treptow, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Dyes. No. 1,419,502; June 13.
- Herzberg, Wilhelm, Berlin-Wilmersdorf, and O. Scharfenberg, Berlin-Schöneberg, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Orthooxyazo dyes. No. 1,426,189; Aug. 15.
- Herzberg, Wilhelm, Berlin-Wilmersdorf, and O. Scharfenberg, Berlin-Schöneberg, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Orthooxyazo dyes for wool. No. 1,426,190; Aug. 15.
- Herzberg, Wilhelm, Berlin-Wilmersdorf, and O. Scharfenberg, Berlin-Schöneberg, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Orthooxyazo dye. No. 1,431,655; Oct. 10.

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- Hertzberg, Wilhelm, Berlin-Wilmersdorf, and G. Hoppe, Berlin-Treptow, assignors to Actien Gesellschaft fur Anilin Fabrikation, Berlin, Germany. Dye. No. 1,431,656; Oct. 10.
- Herzog, Arthur O. (See Beckham, B. C., and Herzog.)
- Hertzog, Louis, assignor to Glenham Embroidery Company, Beacon, N. Y. Jacquard-card repeating and transposing machine. No. 1,423,110; July 18.
- Hertzog, Louis, assignor to Glenham Embroidery Company, Beacon, N. Y. Jacquard-card repeating and transposing machine. No. 1,423,111; July 18.
- Hesco Limited. (See Spencer, Harold E., assignor.)
- Hescock, Ethan N., Westfield, N. J., assignor to New Jersey Foundry & Machine Company. Portable crane. No. 1,428,887; Sept. 12.
- Hescock, Ethan N., Westfield, N. J., and E. F. Smith, Woodhaven, N. Y., assignors to New Jersey Foundry & Machine Company. Portable elevator. No. 1,406,860; Feb. 14.
- Hescock, Ethan N., Westfield, and E. F. Smith, Elizabeth, N. J., assignors to New Jersey Foundry & Machine Company. Portable elevator. No. 1,406,861; Feb. 14.
- Heskett, Walter P., Castlecliff, New Zealand. Metal compound powder and production of the same. No. 1,421,471; July 4.
- Heslewood, William R., et al., trustees. (See Heslewood, W. R., and Mocine, assignors.)
- Heslewood, William R., and H. F. Mocine, Oakland, Calif., assignors to H. F. Mocine, W. R. Heslewood, G. J. Carr, and E. B. Kimball, trustees of the M. and H. Piston Ring Company. Piston ring. No. 1,419,672; June 13.
- Hess, Albert, Friedberg, Germany. Folding cardboard box and the like. No. 1,411,724; Apr. 4.
- Hess, Alexander M., New York, N. Y. Hook and eye tape. No. 1,429,343; Sept. 19.
- Hess, Arthur, Los Angeles, Calif. Toilet seat. No. 1,436,168; Nov. 21.
- Hess-Bright Manufacturing Company, The. (See Bower, Harold J., assignor.)
- Hess-Bright Manufacturing Company, The. (See Runge, Robert F., assignor.)
- Hess-Bright Manufacturing Company, The. (See Sherman, Cortis F., assignor.)
- Hess, Edward B., assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. No. 1,424,905; Aug. 8.
- Hess, Edward B., and L. C. Myers, Brooklyn, assignors to Royal Typewriter Company, Inc., New York, N. Y. Carriage for typewriting machines. No. 1,415,031; May 9.
- Hess, Edward B., and L. C. Myers, Brooklyn, assignors to Royal Typewriter Company, Inc., New York, N. Y. Carriage-release mechanism for typewriting machines. No. 1,415,032; May 9.
- Hess, Edward B., Manhattan Beach, and G. F. Handley, Glendale, assignors to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. No. 1,415,558; May 9.
- Hess, Edward B., and L. C. Myers, Brooklyn, assignors to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. No. 1,417,902; May 30.
- Hess, Edward B., and L. C. Myers, Brooklyn, assignors to Royal Typewriter Company, Inc., New York, N. Y. Margin scale for typewriting machines. No. 1,417,903; May 30.
- Hess, Edward B., and L. C. Myers, Brooklyn, assignors to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. No. 1,417,904; May 30.
- Hess, Edward B., and L. C. Myers, Brooklyn, assignors to Royal Typewriter Company, Inc., New York, N. Y. Back-space mechanism for typewriting machines. No. 1,417,905; May 30.
- Hess, Edward B., and L. C. Myers, Brooklyn, assignors to Royal Typewriter Company, Inc., New York, N. Y. Line-lock mechanism and margin release mechanism for typewriting machines. No. 1,417,906; May 30.
- Hess, Edward B., and L. C. Myers, Brooklyn, assignors to Royal Typewriter Company, Inc., New York, N. Y. Line-spacing mechanism for typewriting machines. No. 1,417,907; May 30.
- Hess, Edward B., and L. C. Myers, Brooklyn, assignors to Royal Typewriter Company, Inc., New York, N. Y. Ribbon operating and guiding mechanism for typewriting machines. No. 1,417,908; May 30.
- Hess, Edward B., and L. C. Myers, Brooklyn, assignors to Royal Typewriter Company, Inc., New York, N. Y. Ribbon guide for typewriting machines. No. 1,417,909; May 30.
- Hess, Edward B., and L. C. Myers, Brooklyn, assignors to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. No. 1,417,910; May 30.
- Hess, Edward B., and L. C. Myers, Brooklyn, assignors to Royal Typewriter Company, Inc., New York, N. Y. Scale for typewriting machines. No. 1,417,911; May 30.
- Hess, Edward B., and L. C. Myers, Brooklyn, assignors to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. No. 1,418,440; June 6.
- Hess, Edward B., New York, and G. F. Handley, Glendale, assignors to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. No. 1,421,083; June 27.
- Hess, Edward B., and L. C. Myers, Brooklyn, assignors to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. No. 1,427,464; Aug. 29.
- Hess, Edward B., and L. C. Myers, Brooklyn, assignors to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. No. 1,427,465; Aug. 29.
- Hess, Edward B., and L. C. Myers, Brooklyn, assignors to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. No. 1,427,466; Aug. 29.
- Hess, Edward B., and L. C. Myers, Brooklyn, assignors to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. No. 1,427,467; Aug. 29.
- Hess, Edward B., and L. C. Myers, Brooklyn, assignors to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. No. 1,427,468; Aug. 29.
- Hess, Edwin S., Bellevue Borough, Pa. Refinisher. No. 1,430,652; Oct. 3.
- Hess, Francis W., Kernstown, Va. Water motor. No. 1,439,416; Dec. 19.
- Hess, Frank J., Enid, Okla. Position indicator. No. 1,431,797; Oct. 10.
- Hess, John J., Seattle, and N. Johnson, Spokane, Wash. Rail tie plate. No. 1,428,378; Sept. 5.
- Hess, John W., Kitchener, Ontario, Canada. Collar crimping and turning machine. No. 1,436,169; Nov. 21.
- Hess, Joseph, Washington, D. C. Coat fastener. No. 1,409,106; Mar. 7.
- Hess, Oliver I., Scottsdale, Pa. Link for antiskid chains. No. 1,432,107; Oct. 17.
- Hess, Simon B., Jamaica, N. Y. Electric signaling system. No. 1,429,243; Sept. 19.
- Hess, William H., Chicago, Ill. Grating. No. 1,426,736; Aug. 22.
- Hess, William H., Chicago, Ill. Grating. No. 1,428,230; Sept. 5.
- Hessian, Dennis C., St. Louis, Mo. Automatic air-brake-releasing mechanism. No. 1,415,173; May 9.
- Hessler, John O. (See Richer, J. R., and Hessler.)
- Hesson, William W., Toronto, Ontario, Canada. Tobacco pipe. No. 1,424,408; Aug. 1.
- Heth, Leonidas S., and F. C. Palmerlee, Grand Rapids, Mich. Driving mechanism. No. 1,407,032; Feb. 21.
- Hetherington, Andrew, West Hoboken, N. J. Micrometer gauge or caliper. No. 1,425,201; Aug. 8.
- Hetherington, Carl F., assignor to Hetherington and Berner, Indianapolis, Ind. Steam-operated gate for pug mills. No. 1,434,997; Nov. 7.
- Hetherington, Harry C., and J. M. Braham, Washington, D. C. Making dicyandiamide. No. 1,423,799; July 25.
- Hetherington, John, and Sons Limited. (See Ross, Thomas, assignor.)
- Hetherington and Berner. (See Hetherington, Carl F., assignor.)
- Hetland, Jonas and M., Bailey City, N. Dak. Plowshare. No. 1,425,012; Aug. 8.
- Hetland, Marcus. (See Hetland, Jonas and M.)
- Hettinger, Julius E., Chicago, Ill. Spring wheel. No. 1,403,495; Jan. 17.
- Hetzner, Albert, Chicago, Ill. Toy amusement apparatus. No. 1,431,398; Oct. 10.
- Heuser, Herman, Evanston, Ill. Dealccoholizing beverages. No. 1,426,068; Aug. 15.
- Heuser, John H., assignor of one-half to E. E. Wolf, Morse Bluff, Nebr. High-powered multicylinder internal-combustion engine. No. 1,429,877; Sept. 19.
- Heuser, Ralph V., assignor to Atlantic Dyestuff Company, Burrage, Mass. Producing tritolyguanidin. No. 1,437,419; Dec. 5.
- Heissner, Reinhard, Cassel, Germany. Hair clasp with pin. No. 1,434,895; Nov. 7.
- Hewes, James A., Melrose, assignor to Hewes & Potter, Boston, Mass. Men's neckwear. No. 1,419,137; June 13.
- Hewes & Potter. (See Hewes, James A., assignor.)
- Hewett, Bertram H. M., New York, N. Y., and S. Johansson, Upper Montclair, N. J. Tunnel and shaft lining. No. 1,414,129; Apr. 25.
- Hewett, Robert J., Westfield, N. J. Directionally-controlled block-signal system. No. 1,436,711; Nov. 28.
- Hewett, William S., Minneapolis, Minn. Reinforced-concrete structure. No. 1,413,404; Apr. 18.
- Hewett, William S., Minneapolis, Minn. Reinforced-concrete pipe. No. 1,413,405; Apr. 18.
- Hewitt, Edward R., Midvale, N. J. Radiator for vehicles. No. 1,423,662; July 25.
- Hewitt, Edward R., Midvale, and J. H. Blake, Jr., East Orange, N. J., assignors to International Motor Company, New York, N. Y. Body for farm trucks. No. 1,422,859; July 18.
- Hewitt, Ellis E., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. No. 1,434,385; Nov. 7.
- Hewitt, George W., Bakersfield, Calif. Portable water heater. No. 1,420,840; June 27.
- Hewitt, Peter C., Ringwood Manor, N. J. Method and apparatus for the production and utilization of electric currents. No. 1,402,931; Jan. 10.
- Hewitt, Peter C., Ringwood Manor, N. J. Reproducing variations in an electric circuit. No. 1,402,932; Jan. 10.
- Hewitt, Peter C., Ringwood Manor, N. J. Method of and apparatus for controlling electric current. No. 1,402,933; Jan. 10.
- Hewitt, Peter C., Ringwood Manor, N. J. System of transforming energy. No. 1,409,717; Mar. 14.
- Hewitt, Peter C., Ringwood Manor, N. J. Vacuum electric apparatus. No. 1,417,912; May 30.

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- Hewlett, Ernest L., Norfolk, Va. Discharge valve for air compressors. No. 1,420,429; June 20.
- Hews, A. H., & Co. (See Theobald, George A., assignor.)
- Hewson, Charles. (See Schreyer, E. G., and Hewson.)
- Hext, William A., Cincinnati, Ohio. Dust arrester. No. 1,402,294; Jan. 3.
- Hext, William A., assignor to W. Macleod, Cincinnati, Ohio. Machine for cleaning castings and the like. No. 1,419,118; June 6.
- Hey, Harry, Melbourne, Victoria, Australia. Recovery of lead and silver from ores and metallurgical products. No. 1,432,858; Oct. 24.
- Hey, Harry, Melbourne, Victoria, Australia. Recovery of lead and silver from sulphide ores and metallurgical products. No. 1,432,859; Oct. 24.
- Heydenbluth, Erich K. F., assignor to the Firm of Hanseatische Triumph-Werke Gesellschaft mit beschränkter Haftung, Hamburg, Germany. Machine for whetting razor blades. No. 1,408,298; Feb. 28.
- Heygate, Eva C., Tankerton, England. Movable bungalow. No. 1,417,736; May 30.
- Heyl, Triphon D. (See Schmidt, B. F., and Heyl.)
- Heyl & Patterson, Inc. (See Bickley, Ross M., assignor.)
- Heyland, Alexander, Brussels, Belgium. Polyphase dynamo and motor. No. 1,411,354; Apr. 4.
- Heyland, Alexander, Brussels, Belgium. Apparatus for generating high-frequency electric currents. No. 1,417,913; May 30.
- Heylandt, Paul, Sudende, near Berlin, Germany. Filling high-pressure vessels with liquefiable gases. No. 1,414,359; May 2.
- Heylandt, Paul, Sudende, near Berlin, Germany. Missile charged with liquid air or oxygen and a carbonaceous substance. No. 1,439,237; Dec. 19.
- Heyman, Edward M., assignor to Oliver Chilled Plow Works, South Bend, Ind. Attachment for plows. No. 1,405,033; Jan. 31.
- Heyman, David, Brooklyn, N. Y. Toy. No. 1,436,712; Nov. 28.
- Heyman, Oscar, New York, N. Y. Jewelry unit and method and apparatus for making the same. No. 1,433,819; Oct. 31.
- Heymann, R. D. (See Vanderbrouk, Harry A., assignor.)
- Heymann, Walter C., Oak Park, Ill. Internal-combustion engine. No. 1,403,245; Jan. 10.
- Heymoss, Alois, Detroit, Mich. Towing device. No. 1,408,002; Feb. 28.
- Heyn, Heinrich, Datteln, and F. Zimmermann, Essen, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Recording device for railways. No. 1,429,878; Sept. 19.
- Heyroth, Albert H., Duluth, Minn. Telemotor. No. 1,414,018; Apr. 25.
- Heys, John J., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe. No. 1,436,093; Nov. 21.
- Heyward, Julius H., Greenville, S. C. Typewriter cabinet. No. 1,436,170; Nov. 21.
- Heywood-Wakefield Company. (See Brown, Charles A., assignor.)
- Heywood-Wakefield Company. (See Lloyd, Marshall B., assignor.)
- Heywood-Wakefield Company. (See Owler, T. D., and Gordon, assignors.)
- Hiatt, Elijah M., et al. (See Van Sant, William S., assignor.)
- Hibbard, Charles, Hudson Falls, and W. Hibbard, Fort Edward, N. Y. Rim tool. No. 1,430,993; Oct. 3.
- Hibbard, George E., Chicago, Ill. Accelerating dry-pipe valve. No. 1,420,192; June 20.
- Hibbard, Howard H., assignor to Hibbard Petroleum Company, Los Angeles, Calif. Well pump. No. 1,421,004; June 27.
- Hibbard, Lloyd J. (See Candee, A. H., and Hibbard.)
- Hibbard, Lloyd J., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,416,026; May 16.
- Hibbard Petroleum Company. (See Hibbard, Howard H., assignor.)
- Hibbard, Robert L., Bellevue, Pa. Boring lathe. No. 1,425,202; Aug. 8.
- Hibbard, Rhuel B., D. J. Watrous, and J. G. Bassette, assignors to Airdry Corporation, Groton, N. Y. Drying apparatus. No. 1,423,800; July 25.
- Hibbard, Warren. (See Hibbard, Charles and W.)
- Hibbert, Harold, Toronto, Ontario, Canada, assignor to The Commercial Research Company. Tobacco. No. 1,407,274; Feb. 21.
- Hibbler, Eldred M., Mattson, Miss. Scraper for pots and pans. No. 1,434,744; Nov. 7.
- Hibbs, Cassell D., Fort Worth, Tex. Fabric-stripping machine. No. 1,402,067; Jan. 3.
- Hibner, Frank, North Platte, Nebr. Wheel shoe for automobiles. No. 1,415,444; May 9.
- Hiby, Walther, Noordwijk aan Zee, assignor to J. C. Baron Van Haersolte Van Haerst, Driebergen, Netherlands. Sunheated coke oven with vertical heating flues. No. 1,436,094; Nov. 21.
- Hiby, Walther, Noordwijk aan Zee, assignor to J. C. Baron Van Haersolte Van Haerst, Driebergen, Netherlands. Construction of coke ovens for the alternate heating with strong or lean gas. No. 1,436,095; Nov. 21.
- Hiby, Walther, Noordwijk aan Zee, assignor to J. C. Baron Van Haersolte Van Haerst, Driebergen, Netherlands. Construction of horizontal coke ovens with regenerators. No. 1,436,096; Nov. 21.
- Hiby, Walther, Noordwijk aan Zee, assignor to J. C. Baron Van Haersolte Van Haerst, Driebergen, Netherlands. Construction of subheated regenerative coke ovens with vertical heating flues. No. 1,436,097; Nov. 21.
- Hiby, Walther, Noordwijk aan Zee, assignor to J. C. Baron Van Haersolte Van Haerst, Driebergen, Netherlands. Construction of subheated regenerative coke ovens. No. 1,436,098; Nov. 21.
- Hick, Harry J., assignor to The Hykon Manufacturing Company, Alliance, Ohio. Shim plate for demountable rims. No. 1,410,302; Mar. 21.
- Hickenlooper, Frank, Albia, Iowa. Hack-saw holder. No. 1,420,484; June 20.
- Hickey, James L., Crane, and J. Kracht, Milwaukee, Wis. Ratchet wrench. No. 1,428,371; Sept. 5.
- Hickey, John H., Bozeman, Mont. Apparatus for the treatment of matte. No. 1,413,116; Apr. 18.
- Hickey, Simon, Marrickville, New South Wales, Australia. Automatic alarm. No. 1,415,874; May 16.
- Hickey, Thomas F. (See Hickey, Thomas F., assignor.)
- Hickey, Thomas F., Stillwater, assignor of one-half to T. F. Hickey, Mechanicsville, N. Y. Spring scale. No. 1,436,344; Nov. 21.
- Hickey, Willie C., Poteet, Tex. Plow. No. 1,410,803; Mar. 21.
- Hickman, George H., Jamestown, Ind. Water-replenishing device for storage batteries. No. 1,415,559; May 9.
- Hickman, J. Vance, Memphis, Tenn. Folding bed. No. 1,402,607; Jan. 3.
- Hickman, John P. and J. P., jr., Asbury Park, N. J. Box or container for berries and the like. No. 1,425,256; Aug. 8.
- Hickman, John P., jr. (See Hickman, John P. and J. P., jr.)
- Hickman, Millard R., San Francisco, Calif. Air separator for feed water. No. 1,426,076; Aug. 15.
- Hickok Manufacturing Company. (See Mix, Edwin S., assignor.)
- Hickok Manufacturing Company. (See Shields, Lowell W., assignor.)
- Hickok, W. O., Manufacturing Company. (See Broadmeyer, Albert, assignor.)
- Hicks, Charles F., Romeo, Mich. Tire liner. No. 1,423,423; July 18.
- Hicks, Elias S., Yakima, Wash. Current motor. No. 1,423,717; July 25.
- Hicks, John, Somerville, N. J. Combustion chamber. No. 1,414,360; May 2.
- Hicks, Kenneth K. (See Noel, C. J., and Hicks.)
- Hicks, Rex P., Milwaukee, Wis. Garden tractor. No. 1,428,231; Sept. 5.
- Hicks, William D., Inglewood, Calif. Lath board and making the same. No. 1,406,188; Feb. 14.
- Hicks, William D., Los Angeles, Calif. Lath. No. 1,430,080; Sept. 26.
- Hicks, William W., San Francisco, Calif. Electric heating core. No. 1,421,084; June 27.
- Hickson, Joseph, Mount Gilead, Ohio. Road rail. No. 1,435,005; Nov. 7.
- Hidlay, William C. (See Cryder, J. W., and Hidlay.)
- Hidock, Frank, Plains, Pa. Car door. No. 1,435,844; Nov. 14.
- Hieatzman, A. H., Company, The. (See Hieatzman, Arthur H., assignor.)
- Hieatzman, Arthur H., Baltimore, Md. Computing scale. No. 1,426,477; Aug. 22.
- Hieatzman, Arthur H., assignor of two-fifths to W. C. Ludwig, Baltimore, Md. Gas-supplying system for automobile engines. No. 1,405,918; Feb. 7.
- Hieatzman, Arthur H., Baltimore, Md., assignor to The A. H. Hieatzman Company. Gliding coaster. No. 1,422,203; July 11.
- Hieb, Jacob G., Oakland, Calif. Direction signal for motor vehicles. No. 1,416,027; May 16.
- Hieber, John G. F., Spokane, Wash. Treating fruit juices. No. 1,429,679; Sept. 19.
- Hieber, John G. F., Spokane, Wash. Fruit press. No. 1,435,232; Nov. 14.
- Hien, Phillip, Chicago, Ill. Demountable rim. No. 1,410,179; Mar. 21.
- Hier, William, Canaanville, Ohio. Insulating tube. No. 1,431,798; Oct. 10.
- Hiesermann, William F., Iowa Park, Tex. Automobile extractor. No. 1,410,918; Mar. 28.
- Hiett, Joseph W., Conway, Ark. Rat trap. No. 1,407,861; Feb. 28.
- Hiett, William S., assignor of one-fourth to C. Hutcheson, one-fourth to W. D. Hutcheson, and one-fourth to J. F. Hutcheson, Temple, Ga. Plowstock. No. 1,430,504; Sept. 26.
- Higby, B. P., et al. (See Serene, Paul, assignor.)
- Higby, Roy C., Utica, and E. J. O'Neil, Syracuse, N. Y. Auxiliary window or door. No. 1,404,025; Jan. 17.
- Higby, Seward. (See Champlin, Charles W., assignor.)
- Higdon, Gerald B., Ames, Iowa. Binder hitch for tractors. No. 1,402,608; Jan. 3.
- Higel, Otto, New York, N. Y. Piano-action bracket. No. 1,406,382; Feb. 14.

Alphabetical list of patentees—Continued.

- Higert, Henry H., Indianapolis, Ind. Shade for automobile lights. No. 1,403,498; Jan. 17.
- Higgin, Henry, assignor to The Higgin Manufacturing Company, Newport, Ky. Rewireable screen. No. 1,439,167; Dec. 19.
- Higgin Manufacturing Company, The. (See Higgin, Henry, assignor.)
- Higginbottom, James, Liverpool, England. Heavier than air flying machine. No. 1,403,322; Jan. 10.
- Higginbottom, James, Liverpool, England. Apparatus for separating and purifying wheat and other cereals and their products. No. 1,404,716; Jan. 24.
- Higgins, Charles D., Berkeley, Calif. Warming device for carburetors. No. 1,424,567; Aug. 1.
- Higgins, Charles F., London, and J. Gunn, Barrow-in-Furness, England. Ejector. No. 1,413,733; Apr. 25.
- Higgins, Clifford B., Detroit, Mich. Automatic cut-off machine. No. 1,431,305; Oct. 10.
- Higgins, Clifford B., assignor to one-half to H. A. Higgins, Detroit, Mich. Art and mechanism for drawing hollow cylindrical metal bodies. No. 1,422,974; July 18.
- Higgins, Edward, et al. (See Quinn, William W., assignor.)
- Higgins, Eugene, Jackson, Mich. Flexible shafting. No. 1,411,433; Apr. 4.
- Higgins, Eugene, Jackson, Mich. Shaft coupling. No. 1,413,117; Apr. 18.
- Higgins, Frank, trustee. (See Pomeroy, Arthur K., assignor.)
- Higgins, Frank C., Minneapolis, Minn. Gear-shift-controlling mechanism. No. 1,416,466; May 16.
- Higgins, George E., Modesto, Calif. Shock absorber. No. 1,404,956; Jan. 31.
- Higgins, Harry A. (See Higgins, Clifford B., assignor.)
- Higgins, James K. (See Kelley, Arthur A., assignor.)
- Higgins, John C., San Diego, Calif. Hydrocarbon burner. No. 1,404,610; Jan. 24.
- Higgins, Martin G., assignor to Pittsburgh Gage & Supply Company, Pittsburgh, Pa. Gas burner for ironing machines. No. 1,433,721; Oct. 31.
- Higgins, William E., and G. S. Mann, Portsmouth, N. H. Train stop. No. 1,424,645; Aug. 1.
- Higgins, William H. C., Jr., Laporte, Ind. Supplying a combustible mixture to internal-combustion engines. No. 1,423,482; July 18.
- Higginson, Kingsley, assignor to Carey-Gavey Syndicate Limited, London, England. Apparatus for cinematographic projection. No. 1,409,107; Mar. 7.
- Higgs, Arthur J., Bowmans, South Australia, Australia. Tractor wheel. No. 1,439,311; Dec. 19.
- High, Carl F., Madison, Wis. Storage-battery cell. No. 1,413,226; Apr. 18.
- High Speed Hammer Company, Inc. (See Leckinger, Philip H., assignor.)
- Higham, Daniel, East Orange, N. J. Talking-machine record and method and apparatus therefor. No. 1,414,185; Apr. 25.
- Highway Iron Products Company. (See Joseph, Chester V., assignor.)
- Highway Trailer Company. (See Clement, Charles G., assignor.)
- Higuley, Carl M., San Diego, Calif. Mop head. No. 1,430,999; Oct. 3.
- Hilberry, Clarence R., Flint, Mich. Telephone directory. No. 1,426,566; Aug. 22.
- Hilbish, John E., La Grange, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Universal cord circuits. No. 1,426,478; Aug. 22.
- Hilburn, James C., Thornburg, Ark. Saw dressing and gauging tool. No. 1,420,547; June 20.
- Hildebrand, Heinrich, Berlin-Schöneberg, Germany. Motor cycle. No. 1,410,180; Mar. 21.
- Hildebrand, James L., Lynn, and H. H. Wanders, Brookline, assignors to The Flintkote Company, Boston, Mass. Machine for packaging roofing. No. 1,435,298; Nov. 14.
- Hildebrand, Wilhelm, Berlin, assignor to Knorr-Bremse Aktiengesellschaft, Lichtenberg, Berlin, Germany. Brake apparatus for railway vehicles. No. 1,424,303; Aug. 1.
- Hildebrand, Wilhelm, Berlin-Lichtenberg, Germany, assignor to Handel Maatschappij H. Albert de Bary & Co., Amsterdam, Netherlands. Triple valve for single-chamber compressed-air brakes. No. 1,425,477; Aug. 8.
- Hildebrandt, Charles M., Bellevue, Ky. Way-signal device for automobiles and other motor-propelled vehicles. No. 1,434,056; Oct. 31.
- Hildebrandt, Ferdinand, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Self-discharging receptacle. No. 1,433,009; Oct. 24.
- Hildebrandt, Frank P., Saugerties, N. Y. Paper-rolling machine. No. 1,403,246; Jan. 10.
- Hilder, Alfred, Pittsburg, Kans. Focusing attachment for roll-film cameras. No. 1,431,657; Oct. 10.
- Hilding, Ernst A. (See Enström, E., and Hilding.)
- Hilenbrant, Harry, Cincinnati, Ohio. Combined proving and baking oven. No. 1,420,102; June 20.
- Hilger, Adam, Limited. (See Banfield, Arthur C., assignor.)
- Hilger, Adam, Limited. (See Twyman, Frank, assignor.)
- Hilke, Henry C., Seattle, Wash. Sawmill carriage. No. 1,437,846; Dec. 5.
- Hill, Acton M., assignor to The A. J. Deer Company, Incorporated, Hornell, N. Y. Material holder for slicing machines. No. 1,412,244; Apr. 11.
- Hill, Charles E., San Bernardino, Calif. Air and water service hose locker. No. 1,422,359; July 11.
- Hill, Charles B., Boston, Mass. Pieced sole. No. 1,401,931; Jan. 3.
- Hill, Clement V., Trenton, N. J. Refrigerator display case. No. 1,409,856; Mar. 14.
- Hill, David, West Barrington, R. I. Electric heating system. No. 1,437,420; Dec. 5.
- Hill, Edith M., Melrose, assignor, by mesne assignments, to J. E. Hill, Melrose Highlands, Mass. Milk-bottle cap. No. 1,430,308; Sept. 26.
- Hill, Edward F., assignor to A. B. Dick Company, Chicago, Ill. Device for stenciling. No. 1,426,067; Aug. 15.
- Hill, Edward W. (See Dick, A. B., and Hill.)
- Hill, Edwin A., Toronto, Ontario, Canada. Glass showcase construction. No. 1,410,919; Mar. 28.
- Hill, Ernest E., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Mechanical pencil. No. 1,437,180; Nov. 28.
- Hill, Frank A., Phillipsburg, assignor to Ingersoll-Rand Co., Jersey City, N. J. Regulator for turbocompressors. No. 1,408,700; Mar. 7.
- Hill, George B., assignor to American Hominy Company, Indianapolis, Ind. Core binder. No. 1,429,879; Sept. 19.
- Hill, George S., Strafford, N. H., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Buttonhole-sewing machine. No. 1,404,768; Jan. 31.
- Hill, George W., Commerce, Okla. Pump-operating mechanism. No. 1,430,994; Oct. 3.
- Hill, Guy. (See Steinberger, L., and Hill.)
- Hill, Guy, Washington, D. C., assignor of one-half to L. Steinberger, Brooklyn, N. Y. Electrical condenser. No. 1,408,738; Mar. 7.
- Hill, Harriet, New York, N. Y. Apparatus for die-casting metals. No. 1,403,955; Jan. 17.
- Hill, Harry L., Bellamy, Ontario, Canada. Combination necktie holder and collar button. No. 1,414,412; May 2.
- Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Lens machinery. No. 1,412,867; Apr. 18.
- Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Lens-blocking machine. No. 1,415,560; May 9.
- Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Lens-block-molding machine. No. 1,433,818; Oct. 31.
- Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Lens-grinding machinery. No. 1,434,896; Nov. 7.
- Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Lens-grinding machine. No. 1,436,255; Nov. 21.
- Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Grinding machine. No. 1,440,148; Dec. 26.
- Hill, Herbert N., Belmont, Iowa. Watch. No. 1,420,261; June 20.
- Hill, Irwin A., Fairbury, Nebr. Electric call system for hotels. No. 1,411,497; Apr. 4.
- Hill, Jacob A., Winston-Salem, N. C. Chair. No. 1,437,305; Nov. 28.
- Hill, James D., Scottsdale, Pa. Vehicle spring. No. 1,411,885; Apr. 4.
- Hill, John C., Chicago, Ill. Pneumatic lifting jack. No. 1,439,105; Dec. 19.
- Hill, John E. (See Hill, Edith M., assignor.)
- Hill, John F., Rochester, Ind. Automobile top-deck protector. No. 1,439,238; Dec. 19.
- Hill, Konsta. (See Tervo, Oscar, assignor.)
- Hill, Lewis C., assignor to Packard Motor Car Company, Detroit, Mich. Lamp. No. 1,434,341; Oct. 31.
- Hill, Lewis D. (See Hill, Myron F. and L. D.)
- Hill, Mark B., Ticonderoga, N. Y. Spark plug. No. 1,416,557; May 16.
- Hill, Martin B., assignor of forty-five per cent to J. J. Sullivan, Houston, Tex. Ice-making apparatus. No. 1,426,640; Aug. 22.
- Hill, Milton B., Worcester, Mass. Test indicator. No. 1,411,725; Apr. 4.
- Hill, Myron F., New York, N. Y. Ship. No. 1,405,844; Feb. 7.
- Hill, Myron F., New Rochelle, and L. D. Hill, Mount Vernon, assignors of two-thirds to E. H. Lysle, New York, N. Y. Motion-picture camera. No. 1,407,535; Feb. 21.
- Hill, N. N., Brass Co., The. (See Kidney, Josiah R., assignor.)
- Hill, Nikalai, Park Falls, Wis. Car-door lock. No. 1,423,562; July 25.
- Hill, Nikalai, Mellen, Wis. Mop-cloth holder. No. 1,438,644; Dec. 12.
- Hill, Paul C., Cement, Okla. Rotary core drill for oil wells. No. 1,427,685; Aug. 29.
- Hill, Peter W., Dorchester, Mass. Excavator. No. 1,415,561; May 9.
- Hill Pump Valve Company, The. (See Umdenstock, Walter, assignor.)
- Hill, Raymond E. (See Williams, G. E., Stultz, and Hill.)
- Hill, Reuben, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Measuring machine for gauges. No. 1,423,214; July 18.

Alphabetical list of patentees—Continued.

- Hill, Reuben, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Tailstock. No. 1,432,753; Oct. 24.
- Hill, Sydney B. N., Breyten, Transvaal, South Africa. Detonator-securing device. No. 1,409,108; Mar. 7.
- Hill, Thomas T., et al., administrators. (See Berkeley, Wales O.)
- Hill, Ulisses H., San Antonio, Tex. Hose clamp. No. 1,408,557; Mar. 7.
- Hill, Wilford A., Waltham, Mass. Box-packing machine. No. 1,431,399; Oct. 10.
- Hill, Wilford A., Waltham, assignor to B. O. & G. C. Wilson, Inc., Boston, Mass. Pill-counter and bottle-filling machine. No. 1,422,860; July 18.
- Hill, William D. (See Kingsley, Herbert B., assignor.)
- Hill, William E., Philadelphia, and C. V. Firth, Ashbourne, assignors to Porter Brothers Textile Company, Philadelphia, Pa. Woven tubular fabric. No. 1,423,524; July 25.
- Hill, William H., Canton, Ohio. Vehicle spring construction. (Reissue.) No. 15,326; Apr. 4.
- Hill, William H., Manati, P. R. Kerosene vaporizer. No. 1,424,142; July 25.
- Hill, William H., Manati, P. R. Liquid-fuel-vaporizing device. No. 1,436,099; Nov. 21.
- Hill, William H., Canton, Ohio. Fuel vaporizer. No. 1,436,100; Nov. 21.
- Hill, William P., assignor to The Universal Dowell Anchor Co., St. Louis, Mo. Dowel-pin lock. No. 1,435,233; Nov. 14.
- Hill, William R., Verdi, Minn. Flywheel attachment. No. 1,409,109; Mar. 7.
- Hill, William W., Hutchinson, Minn. Undercutting tool for commutators. No. 1,438,645; Dec. 12.
- Hill and Loper Company, The. (See Hodshon, Alfred A., assignor.)
- Hillabold, Charles D., Pueblo, Colo. Eyeglasses. No. 1,412,114; Apr. 11.
- Hillard, Frederic W., Tottenville, N. Y. Paper finger for typewriter machines. No. 1,408,003; Feb. 28.
- Hillard, Frederic W., Tottenville, N. Y. Typewriting machine. No. 1,417,737; May 30.
- Hille, Adolph W., Denver, Colo., assignor to American Shale Reduction Company. Apparatus for separating oils. No. 1,428,590; Sept. 12.
- Hille, Hans A., Oskaloosa, Iowa. Resilient tire. No. 1,402,359; Jan. 3.
- Hille, Thomas. (See Brown, I. C., and Hille.)
- Hilleke, August F., Birmingham, Ala. Apparatus for concentrating ores. No. 1,434,386; Nov. 7.
- Hiller, Joseph L., Mattapoisett, Mass. Rotary beater for swing-hammer crushers. No. 1,434,540; Nov. 7.
- Hiller, Joseph L., Mattapoisett, Mass. Crushing and pulverizing machine. No. 1,436,101; Nov. 21.
- Hiller, Joseph L., Mattapoisett, Mass., assignor to Pennsylvania Crusher Company, Philadelphia, Pa. Retarder feeder for crushing machines. No. 1,407,330; Feb. 21.
- Hilliard, John H., New York, N. Y., assignor to American Chain Company, Inc. Antiskid device for vehicle wheels. No. 1,404,524; Jan. 24.
- Hillman, Evan B., H. Kimber, and H. Dadisman, assignors to Monolithic Hollow Concrete Form Company, Los Angeles, Calif. Concrete form for reinforced hollow walls. No. 1,431,524; Oct. 10.
- Hillman, John P., Kansas City, Mo. Gas-generating oil burner. No. 1,438,707; Dec. 12.
- Hillmann, Charles and F. Siems, Runge, Tex. Cotton cleaner and separator. No. 1,406,559; Feb. 14.
- Hills, Henry A., Grand Rapids, Mich. Distillation process. No. 1,414,465; May 2.
- Hills, Sidney C., assignor to The Turner & Seymour Manufacturing Company, Torrington, Conn. Sash-curtain fixture. No. 1,433,506; Oct. 24.
- Hills, Sidney C., assignor to The Turner & Seymour Manufacturing Company, Torrington, Conn. Curtain fixture. No. 1,433,507; Oct. 24.
- Hills, Sidney C., assignor to The Turner & Seymour Manufacturing Company, Torrington, Conn. Egg beater. No. 1,433,508; Oct. 24.
- Hillson, Alfred G., Windsor, Ontario, Canada. Lid support. No. 1,409,857; Mar. 14.
- Hillstrom, Roy A., St. Louis, Mo. Load equalizer for vehicles. No. 1,403,687; Jan. 17.
- Hillyer, George L., and C. A. Creag, Santa Ana, Calif., said Hillyer assignor to said Creag. Kitchen cabinet. No. 1,409,445; Mar. 14.
- Hillyard, Newton S., St. Joseph, Mo. Flexed blotter holder. No. 1,415,642; May 9.
- Hi-Lo-Jack Company. (See Lanier, Amos F., assignor.)
- Hilpert, Meier G., Harrisburg, Pa. Auxiliary closet seat. No. 1,438,491; Dec. 12.
- Hilpert, Siegfried, Bonn-on-the-Rhine, assignor to himself and Deutsch Luxemburgische Bergwerks- und Hütten Aktiengesellschaft, Bochum, Germany. Treatment of waste sulphuric acid. No. 1,427,386; Aug. 29.
- Hilsabeck, Albert R. (See Rutten, F. M., and Hilsabeck.)
- Hilsee, Charles M., Philadelphia, Pa., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,426,077; Aug. 15.
- Hilton, Andrew, Evesville, Ohio. Screw-driver attachment. No. 1,417,995; May 30.
- Hilton, Calvin E., Witten, S. Dak. Attachment for hay stackers. No. 1,420,548; June 20.
- Hilton, David F., Dennison, Ohio. Clevis jack. No. 1,410,569; Mar. 28.
- Hilton, John H., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Concrete form. No. 1,405,212; Jan. 31.
- Hilton, Roland C., assignor to Beece-Hilton, Inc., Troy, N. Y. Compressor. No. 1,407,275; Feb. 21.
- Himebaugh, Duke O., Hooper, Nebr. Ironing chest. No. 1,428,435; Sept. 5.
- Himelfarb, Benjamin, Houston, Tex. Hand implement. No. 1,427,898; Sept. 5.
- Himes, Samuel F., Indianapolis, Ind. Baseball game. No. 1,417,063; May 23.
- Himmel, Robert C., Topeka, Ill. Rotary grain pan. No. 1,402,068; Jan. 3.
- Himmel, Solomon. (See Holmes, William T., assignor.)
- Himmel, Solomon. (See Woltz, Albert M., assignor.)
- Himmelfarb, Max, Brooklyn, N. Y. Serving tray. No. 1,416,294; May 16.
- Himmelfarb, Max, Brooklyn, N. Y. Tray. No. 1,436,256; Nov. 21.
- Himmelright, Raleigh J., Englewood, and A. H. Willett, West New York, N. J. Fire-pun construction for oil-burning fire boxes. No. 1,400,732; Feb. 14.
- Himmelright, Raleigh J., assignor to American Arch Company, New York, N. Y. Locomotive firebox. No. 1,402,161; Jan. 3.
- Himmelright, Raleigh J., assignor to American Arch Company, New York, N. Y. Locomotive firebox. No. 1,402,162; Jan. 3.
- Himmelright, Raleigh J., assignor to American Arch Company, New York, N. Y. Locomotive firebox. No. 1,402,163; Jan. 3.
- Himmelright, Raleigh J., assignor to American Arch Company, New York, N. Y. Locomotive furnace construction. No. 1,417,667; May 30.
- Hinchcliff, Henry C., Brooklyn, N. Y. Punching and setting machine. No. 1,437,245; Nov. 28.
- Hincher Manufacturing Company. (See Holliday, John F., assignor.)
- Hinchey, Robert E., Aurora, Mo. Advertising machine. No. 1,429,205; Sept. 12.
- Hinchman, Alva K., assignor of one-fourth to C. H. Morton and one-fourth to C. H. Quimby, Philadelphia, Pa. Governor valve. No. 1,406,011; Feb. 7.
- Hinchman, Alva K., assignor of one-fourth to C. H. Morton and one-fourth to C. H. Quimby, Philadelphia, Pa. Governor valve. No. 1,406,012; Feb. 7.
- Hinchman, Alva K., assignor of one-fourth to C. H. Morton and one-fourth to C. H. Quimby, Philadelphia, Pa. Governor valve for steam engines. No. 1,406,013; Feb. 7.
- Hinchman, Alva K., assignor, by mesne assignments, of one-fourth to C. H. Quimby and one-fourth to C. H. Morton, Philadelphia, Pa. Expansion valve and governor. No. 1,406,014; Feb. 7.
- Hinchman, Alva K., assignor of one-fourth to C. H. Morton and one-fourth to C. H. Quimby, Philadelphia, Pa. Governor valve. No. 1,406,015; Feb. 7.
- Hinchman, Alva K., assignor of one-half to C. H. Quimby, Philadelphia, Pa. Governor valve for steam engines. No. 1,430,505; Sept. 26.
- Hincke, John H. (See Schwartz, Henry, Jr., assignor.)
- Hinckley, Everett H., New Bedford, Mass. Process of and apparatus for pickling metals. No. 1,434,011; Oct. 31.
- Hinckley, Frank C., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Correction device. No. 1,421,472; July 4.
- Hinckley, Frank C., assignor, by mesne assignments, to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Talking machine. No. 1,422,266; July 11.
- Hinckley, Frank C., and J. F. Skane, assignors to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Stop mechanism. No. 1,430,565; Oct. 3.
- Hinckley, Frank C., and J. J. Scully, assignors to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Automatic stop. No. 1,430,566; Oct. 3.
- Hinckley, Frederick P., Jackson, Mich. Combined valve and valve stem. No. 1,431,658; Oct. 10.
- Hinckley, Harold, Bangor, Me. Stripping means for pressure rolls. No. 1,430,166; Sept. 26.
- Hinckley, Samuel W., Auburn, Calif. Combination cement anchor post. No. 1,431,799; Oct. 10.
- Hindahl, David, assignor to Rodger Ballast Car Co., Chicago, Ill. Convertible car. No. 1,402,422; Jan. 3.
- Hindahl, David, assignor to Rodger Ballast Car Company, Chicago, Ill. Convertible dump car. No. 1,416,711; May 23.
- Hinderliter, Frank J., Tulsa, Okla. Casing ripper. No. 1,433,722; Oct. 31.
- Hindle, Charles F., Elmhurst, N. Y. Galvanometer. No. 1,416,824; May 23.
- Hindle, Thomas, Glossop, England. Calico-printing machine. No. 1,416,712; May 23.
- Hindman, Howard A., and G. A. Parsons, Bellingham, Wash. Hen's nest. No. 1,436,039; Nov. 21.
- Hindmarsh, Percy J., Lincoln, Nebr. Fencepost. No. 1,405,586; Feb. 7.
- Hinds, Sherwood, assignor to S. F. Bowser & Company, Inc., Fort Wayne, Ind. Driving mechanism for counters. No. 1,425,964; Aug. 15.

- Hine, Charles W. C., Dorking, England. Buffer and other springs constructed of india rubber. No. 1,430,230; Sept. 26.
- Hine, Edward B., Longmeadow, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Resilient actuator. No. 1,413,272; Apr. 18.
- Hineline, Edson S., Providence, assignor to Hineline Engineering Company, Pawtucket, R. I. Electrical stop motion for knitting machines. No. 1,417,914; May 30.
- Hineline Engineering Company. (See Hineline, Edson S., assignor.)
- Hines, Arlow B., Van Wert, Ohio. Check protector. No. 1,416,639; May 16.
- Hines, Frank W., U. S. Army. Bank check. No. 1,414,279; Apr. 25.
- Hines, John J., and H. R. Way, Halifax, Nova Scotia, Canada. Automatically-operating weather stop. No. 1,426,737; Aug. 22.
- Hines, Robert E., New York, N. Y., assignor to New Jersey Silk Machinery Company, Paterson, N. J. Spinning, doubling, and twisting machine. No. 1,423,801; July 25.
- Hines, Roland J. (See Hall, George F., assignor.)
- Hines, William J., Hartford, Conn., assignor to The Fuller Brush Company. Toothbrush. No. 1,435,641; Nov. 14.
- Hingenitz, Hans E. K., Pocatello, Idaho. Amusement device. No. 1,405,213; Jan. 31.
- Hinger, William L., assignor to Uzdol Tire Corporation, Cleveland, Ohio. Tire protector. No. 1,436,713; Nov. 28.
- Hingher, Joseph. (See Barwell, J. W., Ward, Nelson, Hingher, Booth, and Blows.)
- Hingley, John A. (See Kennedy, Horace G., assignor.)
- Hink, William H., assignor of one-half to J. P. Morningstar, Wheeling, W. Va. Vehicle fender. No. 1,417,321; May 23.
- Hinkle, Mathew C., Enders, Ark. Plow. No. 1,407,862; Feb. 28.
- Hinkson, Gladstone M. (See McClellan, Walter N., assignor.)
- Hinnard, Oscar H. (See Nelson, A., and Hinnard.)
- Hinsberg, Oscar, Freiburg, Germany. α -oxyaryl-substituted β -aminoethanes and making same. No. 1,432,291; Oct. 17.
- Hinsdale, Frank G., New York, N. Y. Harpoon. No. 1,403,550; Jan. 17.
- Hinson, John, Montreal, Quebec, Canada. Journal-box cooler. No. 1,421,473; July 4.
- Hinton, Amy, Watts, Calif. Making sorghum sirup. No. 1,403,412; Jan. 10.
- Hinton, John R., Hansen, Idaho. Swather for mowing machines. No. 1,419,051; June 6.
- Hinton, John T., Moultrie, Ga. Compound engine valve. No. 1,409,110; Mar. 7.
- Hintze, Johan G. W., Helsingborg, Sweden. Device for inspecting combustion in furnaces, flues, and the like. No. 1,410,181; Mar. 21.
- Hintze, Mauarii F., Papeete, Tahiti, Society Islands. Differential locking mechanism. No. 1,439,239; Dec. 19.
- Hinz, August J., Wood Lake, Minn. Loading machine. No. 1,432,393; Oct. 17.
- Hinz, Leo, Perth Amboy, N. J. Toy. No. 1,406,733; Feb. 14.
- Hinzke, Albert G., Port Arthur, Ontario, Canada. Oxidizing device for sulphur burners. No. 1,410,061; Mar. 21.
- Hinzke, Albert G., Thunder Bay, Ontario, Canada. Sulphur burner. No. 1,421,232; June 27.
- Hiorth, Albert, Asker, near Christiania, Norway, assignor to A/S Hiorth's Elektriske Induktionsovn, Bergen, Norway. Electric induction furnace. No. 1,410,304; Mar. 21.
- Hipolito, Hazel C., Los Angeles, Calif. Screen hanger. No. 1,411,784; Apr. 4.
- Hipp, J. C. (See Dalitz, Harry, assignor.)
- Hippemeyer, Irving R., and C. Skidd, assignors to Charles Skidd Manufacturing Company, Janesville, Wis. Pasteurizer. No. 1,412,115; Apr. 11.
- Hipple, George I., Chicago, Ill. Operating mechanism for jacks. No. 1,434,698; Nov. 7.
- Hippler, George A., Johnstown, Pa. Headrest attachment. No. 1,432,555; Oct. 17.
- Hippolitus, Joseph D., New Haven, Conn. Window screen. No. 1,429,344; Sept. 19.
- Hipwell, Harry T., Pittsburgh, Pa. Battery. No. 1,415,033; May 9.
- Hipwood, George, New York, N. Y. Crutch tip. No. 1,429,428; Sept. 19.
- Hipwood, George, New York, N. Y. Crutch tip. No. 1,429,429; Sept. 19.
- Hipwood, George, New York, N. Y. Armrest attachment for crutches. No. 1,434,387; Nov. 7.
- Hird, John P., Redlands, Calif. Weed and grass exterminating machine. No. 1,428,032; Sept. 5.
- Hires, John E., Ardmore, Pa. Dispensing carbonator for beverages. No. 1,437,306; Nov. 28.
- Hirner, Emil A., Allentown, Pa. Cam mechanism for knitting machines. No. 1,411,355; Apr. 4.
- Hirsch, Alcan, and M. Hirsch, New York, N. Y. Flo-tation agent and making same. No. 1,407,749; Feb. 28.
- Hirsch, Daniel, New York, N. Y. Identification means for umbrellas, parasols, etc. No. 1,411,096; Mar. 28.
- Hirsch, Friedrich, Vienna, Austria. Chrome tanning. No. 1,404,957; Jan. 31.
- Hirsch, Herman, Chicago, Ill. Educational device. No. 1,417,828; May 30.
- Hirsch, Marx. (See Hirsch, Alcan and M.)
- Hirsch, Max. (See Horak, Frank, assignor.)
- Hirsch, Otto C. L., Evanston, assignor to Sausage Linking Machine Corporation, Chicago, Ill. Sausage linking and hanging machine. No. 1,431,227; Oct. 10.
- Hirschberg, Leo, Newark, N. J. Cover for laundry tubs. No. 1,423,215; July 18.
- Hirschl, Harry, and A. V. Wagner; said Wagner assignor of his entire right to Hirschl and Bendheim, Washington, Mo. Burnishing and treating corncob pipe bowls. No. 1,434,119; Oct. 31.
- Hirschl, Marcus A., Chicago, Ill. Display box. No. 1,418,798; June 6.
- Hirschl and Bendheim. (See Hirschl, H., and Wagner, assignors.)
- Hirschman, William F., Buffalo, N. Y. Rotary ventilator. No. 1,416,295; May 16.
- Hirshfeld, Max., St. Paul, Minn. Junction box. No. 1,402,769; Jan. 10.
- Hirshfield, Morris, Brooklyn, N. Y. Laminated fabric. No. 1,405,511; Feb. 7.
- Hirshfield, Morris, Brooklyn, N. Y. Blank for slippers. No. 1,421,474; July 4.
- Hirst, Franklin G., Philadelphia, Pa. Crate. No. 1,437,181; Nov. 28.
- Hirst, James, Melrose, Mass., assignor, by mesne assignments, to Tubular Woven Fabric Company, Pawtucket, R. I. Circular loom. No. 1,426,641; Aug. 22.
- Hirst, John A., and P. S. Brook, Chester, England. Switch. No. 1,425,769; Aug. 15.
- Hirt, Albert. (See Schwarz, B. J., Forister, and Hirt.)
- Hirt, Albert, Paris, France. System for handling and transporting articles in factories and the like. No. 1,436,171; Nov. 21.
- Hirt, Joseph F., Chicago, Ill. Dry kiln. No. 1,432,248; Oct. 17.
- Hirt, Joseph F., Chicago, Ill., assignor to Sonora Phonograph Company. Panel. No. 1,427,812; Sept. 5.
- Hislop, John C., Newark, N. J. Desk file. No. 1,414,130; Apr. 25.
- Hiss, William J., assignor to Diamond Expansion Bolt Company, New York, N. Y. Conduit or cable clamp and bridle ring. No. 1,410,011; Mar. 21.
- Hist, John, assignor to The Cleveland Implement Manufacturing Company, Alliance, Ohio. Dropping device for potato planters. No. 1,431,659; Oct. 10.
- Hitch, Elias A., Guymon, Okla. Tire protector. No. 1,426,191; Aug. 15.
- Hitchcock, George E., assignor of one-third to M. Brown, Flint, Mich. Box opener. No. 1,437,143; Nov. 28.
- Hitchcock, Harry W., New York, N. Y., assignor to American Telephone and Telegraph Company. Electrical measuring apparatus. No. 1,419,673; June 13.
- Hitchcock, Harry W., New York, N. Y., assignor to American Telephone and Telegraph Company. Electrical measuring apparatus. No. 1,419,674; June 13.
- Hitchcock, Otto G., assignor to Hays Manufacturing Co., Erie, Pa. Adjustable mixing faucet. No. 1,425,478; Aug. 8.
- Hitchcock, Reuben, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Sheet-feeding mechanism. No. 1,419,733; June 13.
- Hitchcock, Rex B. (See Raney, C. R., and Hitchcock.)
- Hitchen, Robert, Kewanee, Ill. Tubular hot-air furnace. No. 1,426,642; Aug. 22.
- Hitner, Harry F., Pittsburgh, Pa. Switch and fuse box. No. 1,438,646; Dec. 12.
- Hitt, Samuel E. (See Peyton, J. I., and Hitt.)
- Hitt, Samuel E., Elyria, Ohio, and J. I. Peyton, Chicago, Ill. Ingot mold. No. 1,422,572; July 11.
- Hitzegrad, Carl, assignor to Tonhite-Gesellschaft m. b. H., Bremen, Germany. Driving device for the music bands or strips of pneumatic music machines. No. 1,436,879; Nov. 28.
- Hitzert, Andulo M. (See Rhedans, A. L., and Hitzert.)
- Hitzert, Jacob, Saginaw, Mich. Rail attachment. No. 1,426,192; Aug. 15.
- Hively, Hal H., Tar River, Okla. Sectional tire rim. No. 1,424,019; July 25.
- Hively, Hal H., Tar River, Okla. Sectional tire rim. No. 1,424,476; Aug. 1.
- Hixon, Hiram W., New York, N. Y. Dam and constructing same. No. 1,419,852; June 13.
- Hixson, Arthur W., Leonia, N. J. Dried yeast and making the same. No. 1,420,630; June 27.
- Hixson, Charles E., Macon, Mo. System of determining the age and identification of automobile tires. No. 1,411,356; Apr. 4.
- Hixson, James E., assignor to M. A. Leach, Los Angeles, Calif. Vehicle. No. 1,427,387; Aug. 29.
- Hjort, Johannes E., Copenhagen, Denmark. Cylindrical mortise latch. No. 1,414,019; Apr. 25.
- Hjort, Johannes E., Copenhagen, Denmark. Cylindrical mortise lock. No. 1,437,519; Dec. 5.
- Hjorth, David, New York, N. Y., assignor to The General Machine & Manufacturing Co., Bridgeport, Conn. Pendant switch. No. 1,421,085; June 27.
- Hleb, Peter, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Nut lock. No. 1,404,290; Jan. 24.
- Hnatiuk, Michal. (See Kotelmach, Tomasz, assignor.)
- Hnilo, Frank, and J. Schultz, Cicero, Ill. Bath-cabinet-supporting frame. No. 1,425,772; Aug. 15.

Alphabetical list of patentees—Continued.

- Hoag, Clarence G., Haverford, Pa. Ballot. No. 1,404,611; Jan. 24.
- Hoagg, Walter, Detroit, Mich. Beet harvester. No. 1,436,501; Nov. 21.
- Hoagland, Frank O., assignor to The Bilton Machine Tool Company, Bridgeport, Conn. Oil cup. No. 1,423,112; July 18.
- Hoagland, Frank O., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Lead gauge for threads. No. 1,434,699; Nov. 7.
- Hoard, George A. (See Langston, F. A., and Hoard.)
- Hoard, George E., Washington, D. C. Resilient wheel. No. 1,402,069; Jan. 3.
- Hobart, Chauncey G., Chicago, Ill. Card-filing desk. No. 1,427,957; Sept. 5.
- Hobart, Franklin G., and C. B. Jahnke, Beloit, Wis., assignors to Fairbanks, Morse & Company, Chicago, Ill. Oil-engine-feeding device. No. 1,411,025; Mar. 28.
- Hobart Manufacturing Company, The. (See Rataiczak, Thomas F., assignor.)
- Hobbs, James C., Pittsburgh, Pa. Feeding fluid fuel and air to combustion chambers. No. 1,409,111; Mar. 7.
- Hobbs, James C., Pittsburgh, Pa. Combined light and structure. No. 1,416,467; May 16.
- Hobbs, John W., Davenport, Iowa. Supporting rack. No. 1,404,958; Jan. 31.
- Hobbs Manufacturing Company. (See Moore, Arlington, assignor.)
- Hobbs, William O., Parsons, Kans. Toy. No. 1,435,845; Nov. 14.
- Hobson, Charles M., Penn Yan, N. Y. Collar. No. 1,403,956; Jan. 17.
- Hobson, Claude C., Kenwood Park, assignor of one-half to O. O. Hobson, Vinton, Iowa. Cane-harvesting apparatus. No. 1,425,479; Aug. 8.
- Hobson, Joseph, and E. E. Gilbert, Colton, Calif. Tire. No. 1,412,444; Apr. 11.
- Hobson, Louis W. (See Luman, Ira C., assignor.)
- Hobson, Oliver J. (See Beckworth, O. Q., and Hobson.)
- Hobson, Orlen, Fresno, Calif. Apparel lacing. No. 1,416,203; May 16.
- Hobson, Otto O. (See Hobson, Claude C., assignor.)
- Hoch, William, New York, N. Y. Amusement device. No. 1,433,135; Oct. 24.
- Hochberg, Oscar, assignor to American Car and Foundry Company, New York, N. Y. General-service railway car. No. 1,405,415; Feb. 7.
- Hochenauer, John, Jr., assignor to Missouri Paper Products Company, St. Joseph, Mo. Ring. No. 1,407,863; Feb. 28.
- Hochstadter, Irving, Far Rockaway, N. Y. Bleaching foods. No. 1,412,523; Apr. 11.
- Höchstädter, Martin, Berlin, Germany, assignor to N. V. "Lyn-Protectie." Maatschappij tot Exploitatie van Electro-Technische en andere Octrooien, The Hague, Netherlands. System for protecting electric current distributing nets against temporary interruptions. No. 1,404,437; Jan. 24.
- Höchstädter, Martin, Gravenhage, assignor to N. V. Lyn protectie, The Hague, Netherlands. Means for indicating and disconnecting defective branches from electric-current networks. No. 1,432,556; Oct. 17.
- Hochstetter, Frederick W., assignor of one-half to W. I. Ohmer, Dayton, Ohio. Process and apparatus for sensitizing photographic film and paper. No. 1,403,779; Jan. 17.
- Hochstetter, Frederick W., assignor of one-half to W. I. Ohmer, Dayton, Ohio. Translucent medium for use in photographic arts. No. 1,419,379; June 13.
- Hocker, C. M. (See Burnam, Allen, assignor.)
- Hocker, Carl D., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Liquid coating composition. No. 1,422,861; July 18.
- Hocker, Jesse A., Durango, Colo. Automobile wheel. No. 1,431,660; Oct. 10.
- Hockridge, Sidney, Redlands, Calif. Method and means for protecting trees. No. 1,425,257; Aug. 8.
- Hocks, Johann, Wehettitz, near Karlsbad, Czecho-Slovakia, assignor to F. Meyer, Basel, Switzerland. Motor truck. No. 1,425,965; Aug. 15.
- Hoddinott, John K., Baltimore, Md. Combination tool. No. 1,436,040; Nov. 21.
- Hodely, John, Shingleton, Mich. Cushion tire. No. 1,406,016; Feb. 7.
- Hodes, Carl E. (See Ochs, R. J., and Hodes.)
- Hodgdon, Herbert W., and P. F. Green, St. Louis, Mo. Potato-peeling machine. No. 1,422,708; July 11.
- Hodgdon, Lewis S., Bangor, Me. Price exhibitor. No. 1,435,469; Nov. 14.
- Hodgdon, Paul E. (See Hanson, H. H., and Hodgdon.)
- Hodge, Albert P., assignor to William L. Gilbert Clock Company, Winsted, Conn. Clock. No. 1,433,372; Oct. 24.
- Hodge, Charles K., Concord, Vt. Milk cooler. No. 1,431,400; Oct. 10.
- Hodge, George O., Bristol, assignor to The New Britain Machine Company, New Britain, Conn. Power-operated tractor. No. 1,403,080; Jan. 10.
- Hodge, George O., Bristol, assignor to The New Britain Machine Company, New Britain, Conn. Plow hitch. No. 1,426,383; Aug. 22.
- Hodge, George O., Bristol, assignor to The New Britain Machine Company, New Britain, Conn. Power-operated farming implement. No. 1,429,946; Sept. 26.
- Hodge, George O., Bristol, assignor to The New Britain Machine Company, New Britain, Conn. Tractor. No. 1,436,442; Nov. 21.
- Hodge, Karl. (See Johnson, Carl W., assignor.)
- Hodge, Mary E., Wenona, Ill. Apron dress. No. 1,406,862; Feb. 14.
- Hodge, Robert J., assignor to The American Buckle Co., West Haven, Conn. Slide buckle. No. 1,431,661; Oct. 10.
- Hodgen, Charles E. (See Wetzel, Carl G., assignor.)
- Hodgen, Clayton W., Kansas City, Kans. Window frame. No. 1,407,536; Feb. 21.
- Hodges, Alexander A., Headland, Ala. Fertilizer distributor. No. 1,415,643; May 9.
- Hodges, Edward G., Marshalltown, Iowa. Carburetor air-control device. No. 1,413,985; Apr. 25.
- Hodges, Emery C., Joliet, Ill. Silo. No. 1,428,168; Sept. 5.
- Hodges, Emery C., Joliet, Ill. Apparatus for making artificial stone and the like. No. 1,433,204; Oct. 24.
- Hodges, Emery C., Joliet, Ill. Sanitary foundation. No. 1,433,205; Oct. 24.
- Hodges, Frederick F., Kalamazoo, Mich. Hame and trace connection. No. 1,406,735; Feb. 14.
- Hodges, Walter E., and C. F. Larzelere, Flint, Mich. Fishing-line reel. No. 1,407,537; Feb. 21.
- Hodgkins, Charles H. (See Roberts, W. S., and Hodgkins.)
- Hodgkins, Charles H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,406,383; Feb. 14.
- Hodgkins, Charles H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical switch. No. 1,414,413; May 2.
- Hodgkins, Charles H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupter. No. 1,424,304; Aug. 1.
- Hodgkins, Edward F., assignor to Naumkeag Buffing Machine Company, Beverly, Mass. Device for separating frictionally-engaged members. No. 1,434,437; Nov. 7.
- Hodgkinson, Francis, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Co. Packing. No. 1,419,927; June 20.
- Hodgkinson, Otrud, Oakdale, assignor to F. J. Trcka, New Orleans, La. Work-clamping bench. No. 1,418,924; June 6.
- Hodgkinson, William, et al. (See Rathman, Gilbert, assignor.)
- Hodgson, Carl W., Chicago, Ill. Mixing and conveying apparatus. No. 1,423,853; July 25.
- Hodgson, Harriette E., New York, N. Y. Aerial rescue device. No. 1,435,923; Nov. 21.
- Hodgson, Isaac W., assignor of one-half to M. J. McDonnell, Philadelphia, Pa. Stairway. No. 1,412,406; Apr. 11.
- Hodgson, James, Carlisle, England. Attachment for converting motor driven chassis into tractors for agricultural purposes. No. 1,422,709; July 11.
- Hodgson, John G., Maywood, Ill., assignor to American Can Company, New York, N. Y. Manufacture of cans. No. 1,431,228; Oct. 10.
- Hodous, Frank, Enderlin, N. Dak. Electric-light attachment for hand coverings. No. 1,402,609; Jan. 3.
- Hodshon, Alfred A., assignor to The Hill and Loper Company, Incorporated, Danbury, Conn. Welt-edge hat brim. No. 1,404,291; Jan. 24.
- Hoe, R., and Co. (See Baker, James N., assignor.)
- Hoe, R., and Co. (See Johnston, Robert T., assignor.)
- Hoe, R., and Co. (See Roesen, O., and Tornberg, assignors.)
- Hoe, R., and Co. (See Roesen, Oscar, assignor.)
- Hoefken, Maurice L., Belleville, Ill. Turntable. No. 1,428,090; Sept. 5.
- Hodlinger, Austin D., assignor to The Standard Parts Company, Cleveland, Ohio. Power tongs. No. 1,427,469; Aug. 29.
- Hoegemann, Edward H., San Francisco, Calif. Vanity case. No. 1,435,160; Nov. 14.
- Hoegg, Howard J., Weatherly, Pa. Magneto plug. No. 1,410,251; Mar. 21.
- Hoehne, Herman F., Kaukauna, Wis. Thistle-pulling machine. No. 1,410,252; Mar. 21.
- Hoehnen, John C. (See Bayne, G. G., and Hoehnen.)
- Hoehnen, John C., et al. (See Bayne, George G., assignor.)
- Hoehnen, John C., et al. (See Branstrator, Clement G., assignor.)
- Hoelscher, Gottlieb H., Battle Creek, Iowa. Combination soap holder and grater for washing-machine dashers or agitators. No. 1,416,825; May 23.
- Hoelscher, Louis E., St. Louis, Mo. Unloading device relative to unloading fodder. No. 1,415,034; May 9.
- Hoelzel, John. (See Stephens, W. B., and Hoelzel.)
- Hoem, Samuel C., St. Paul, Minn. Ladder. No. 1,412,179; Apr. 11.
- Hoenninger, John F., Jr., Lancaster, Pa. Door-operated switch. No. 1,413,118; Apr. 18.
- Hoepner, George, Chicago, Ill. Automatic weighing machine. No. 1,402,934; Jan. 10.
- Hoerning, Fred H., Detroit, Mich. Garment hanger. No. 1,436,714; Nov. 28.
- Hoessel, Frederick W. (See Darrow, L. L., and Hoessel.)
- Hofberg, John O., assignor of one-half to C. J. Steen, Philadelphia, Pa. Combined valve and pipe union. No. 1,424,305; Aug. 1.

- Hoff, Chester A., and J. C. Steese, assignors to The Die Sinking and Machine Company, Akron, Ohio. Vapor lamp. No. 1,414,466; May 2.
- Hoff, Chester D., Winchester, Wash. Appliance for cleaning tubes. No. 1,418,925; June 6.
- Hoff, Earl B., assignor, by mesne assignments, to Electric Vacuum Cleaner Company, Inc., East Cleveland, Ohio. Beater for suction cleaners. No. 1,422,100; July 11.
- Hoff, Herman W., Bearcreek, Mont. Miner's lamp tool. No. 1,412,745; Apr. 11.
- Hoffay, Joseph, New York, N. Y. Phonograph. No. 1,425,966; Aug. 15.
- Hoffbauer, Alfred, Brooklyn, assignor to The American Sugar Refining Company, New York, N. Y. Variable-speed driving mechanism. No. 1,410,305; Mar. 21.
- Hoffenberg, Wolf, Oakland, Calif. Lady's hatpin. No. 1,403,780; Jan. 17.
- Hoffer, Le Roy H., Nyack, assignor to T. E. Murray, Brooklyn, N. Y. Electric welding and the like. No. 1,436,395; Nov. 21.
- Hoffman, Addison F., Pittsburgh, Pa. Fertilizer material and producing same. No. 1,428,633; Sept. 12.
- Hoffman, Albert C., Huntington, Ind. Electric heater for thawing pipes. No. 1,408,196; Feb. 28.
- Hoffman, Alfred W., New York, N. Y. Calipers. No. 1,420,700; June 27.
- Hoffman, Andrew. (See Bock, Charles, assignor.)
- Hoffman, Benjamin, South Beloit, Ill. Circular-rib-knitting machine. No. 1,433,454; Oct. 24.
- Hoffman, Charles, Tuckahoe, H. D. Grigsby, Brooklyn, and N. M. Gregor, assignors to Ward Baking Company, New York, N. Y. Manufacture of leavened bread. No. 1,481,525; Oct. 10.
- Hoffman, Charles S., San Francisco, Calif. Trailer. No. 1,429,734; Sept. 19.
- Hoffman, Curtis C., Chagrin Falls, and J. McCaslin, assignors to The Weilmann-Seaver-Morgan Company, Cleveland, Ohio. Method of and apparatus for preventing the accumulation of sticky condensed products of a gas producer upon the relatively movable engaging surfaces of the fuel-feeding mechanism applied to a gas producer. No. 1,415,238; May 9.
- Hoffman, Dillon, and F. Easton, New York, N. Y. Lock. No. 1,407,538; Feb. 21.
- Hoffman, Edgar J., Cherokee, Iowa. Hanger support. No. 1,433,617; Oct. 31.
- Hoffman, Edward B. (See Austin, M. E., and Hoffman.)
- Hoffman, Edward J., Cedar Rapids, Iowa. Pencil. No. 1,406,736; Feb. 14.
- Hoffman, Edward L., Fort Slocum, N. Y. Fuselage parachute. No. 1,425,770; Aug. 15.
- Hoffman, Fred D., assignor to P. E. Miller, Fort Worth, Tex. Power jack. No. 1,414,876; May 2.
- Hoffman, George A., Mansfield, Ohio. Gaseous-fuel burner. No. 1,405,214; Jan. 31.
- Hoffman, George A., Mansfield, Ohio. Gas heater. No. 1,410,807; Mar. 28.
- Hoffman, George C. (See Pedroarena, U., and Hoffman.)
- Hoffman, George F. (See Latsch, Otto, assignor.)
- Hoffman, George J. (See Berger, A. A. R., and Hoffman.)
- Hoffman, Glenn R. (See Gentry, B. C., and Hoffman.)
- Hoffman, Gustav. (See Bowman, William B., assignor.)
- Hoffman, Harry, and T. E. Kreutzer, Philadelphia, Pa.; said Hoffman assignor to said Kreutzer. Water heater. No. 1,437,975; Dec. 5.
- Hoffman, Harry A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Treating golf balls. No. 1,405,845; Feb. 7.
- Hoffman, Harry H., Baltimore, Md. Work holder. No. 1,403,781; Jan. 17.
- Hoffman, Howard H., Fairfield Beach, assignor to The Lake Torpedo Boat Company, Bridgeport, Conn. Housed cleat for submarine boats. No. 1,402,496; Jan. 3.
- Hoffman, John H., assignor to Theo. Tiedemann & Sons, Inc., New York, N. Y. Gumming device for ribbon-cutting machines. No. 1,415,562; May 9.
- Hoffman, John H., assignor to Theo. Tiedemann & Sons, Inc., New York, N. Y. Gumming device for ribbon-cutting machines. No. 1,415,563; May 9.
- Hoffman, John I., Pittsburgh, Pa. Automatic delivery system. No. 1,438,162; Dec. 5.
- Hoffman, Joseph, Camden, N. J. Automobile bumper wing. No. 1,416,468; May 16.
- Hoffman, Joseph, Camden, N. J. Safety latch for steering controllers. No. 1,421,475; July 4.
- Hoffman, Joseph S. (See Austin, M. E., and Hoffman, assignors.)
- Hoffman, Keva, Chicago, Ill. Wrench for shut-off valves or the like. No. 1,420,701; June 27.
- Hoffman-La Roche Chemical Works, The. (See Guggenheim, Markus, assignor.)
- Hoffman, Leon F., Franklin, Pa., assignor to Chicago Pneumatic Tool Co., New York, N. Y. Coordinated regulating device. No. 1,412,805; Apr. 11.
- Hoffman, Louis, New York, N. Y. Follower block for card-index cases. No. 1,415,035; May 9.
- Hoffman, Louis, Duluth, Minn., assignor, by mesne assignments, to Steam Pressing Iron Company. Pressing machine. No. 1,404,859; Jan. 31.
- Hoffman, Louis, Duluth, Minn., assignor, by mesne assignments, to Steam Pressing Iron Company. Sadiron. No. 1,428,959; Sept. 12.
- Hoffman, Morris J., Chicago, Ill. Coupon-ticket-printing machine. No. 1,437,592; Dec. 5.
- Hoffman, Paul, Easton, Pa., and F. C. Reed, Harriette, Mich., assignors to Ingersoll-Rand Company, Jersey City, N. J. Gas-booster regulator. No. 1,422,573; July 11.
- Hoffman, Roscoe C., Argos, assignor, by mesne assignments, to The Anderson Company, South Bend, Ind. Combined intake and exhaust manifold. No. 1,432,394; Oct. 17.
- Hoffman, Rudolph, Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Stove construction. No. 1,416,956; May 23.
- Hoffman, Rudolph, Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Oil stove. No. 1,430,375; Sept. 26.
- Hoffman, Samuel, J. Schwartz, and I. Holden, New York, N. Y. Drawing instrument. No. 1,406,863; Feb. 14.
- Hoffman, Samuel O., San Francisco, Calif. Lamp. No. 1,425,967; Aug. 15.
- Hoffman Specialty Company. (See Simpson, William K., assignor.)
- Hoffman, Walter A., New York, N. Y. Calipers. No. 1,402,497; Jan. 3.
- Hoffman, William F. (See Moore, George T., assignor.)
- Hoffman, William L. (See Garrett, A. O., Funnell, and Hoffman.)
- Hoffman, William M., assignor to General Fuel Apparatus Corporation, Buffalo, N. Y. Fuel-oil burner. No. 1,419,380; June 13.
- Hoffmann, Albert, Corona, N. Y. Boutonnière holder. No. 1,425,480; Aug. 8.
- Hoffmann, Alexander, Berlin-Reinickendorf, and B. Bomborn, Berlin, Germany; said Hoffmann assignor to said Bomborn. Crab. No. 1,428,091; Sept. 5.
- Hoffmann, Emil, Cologne, Germany. Tool for the connection of metal strips and the like. No. 1,430,807; Oct. 3.
- Hoffmann, Emil, Cologne, Germany. Forming a metallic crossstying of packages. No. 1,431,800; Oct. 10.
- Hoffmann, Genevieve B. (See Hoffmann, Harry G. and G. B.)
- Hoffmann, Harry G. and G. B., Oakland, Calif. Shoulder-strap holder. No. 1,410,306; Mar. 21.
- Hoffmann-La Roche Chemical Works, The. (See Preiswerk, Ernst, assignor.)
- Hoffmann, Rudolf, Romanshorn, Switzerland. Elastic fixing of the armatures of electric motors upon the driving axles of locomotives. No. 1,439,240; Dec. 19.
- Hoffmann, William J., New York, N. Y. Figure wheeled toy. No. 1,429,345; Sept. 19.
- Hofner, Frank, Bessemer, Mich. Reversing switch. No. 1,412,941; Apr. 18.
- Hofmann, Emil G., Chicago, Ill. Toy sprinkler. No. 1,422,862; July 18.
- Hofmann, Fred G., New York, N. Y. Creasing iron. No. 1,429,880; Sept. 19.
- Hofstad, Neils, Chicago, Ill., assignor to Johnson Service Company, Milwaukee, Wis. Apparatus for thermostatic control. No. 1,417,738; May 30.
- Hofstatter, Ernest W., Nyack, N. Y. Ear trumpet for truck drivers. No. 1,423,802; July 25.
- Hofwing, Klas, Jonkoping, Sweden. Machine for the production of wrought-iron ribbed pipe. No. 1,404,122; Jan. 17.
- Hogaboom, George B., New Britain, assignor to Scovill Manufacturing Company, Waterbury, Conn. Metal anode for electrodeposition and producing same. No. 1,433,618; Oct. 31.
- Hogan, Charles V., assignor of one-half to The W. S. Gilkey Printing Company, Cleveland, Ohio. Carton-assembling device. No. 1,407,864; Feb. 28.
- Hogan, George L., Chicago, Ill. Heat-storage battery. No. 1,433,010; Oct. 24.
- Hogan, George L., assignor of one-half to A. H. Marshall, Chicago, Ill. Attachment for roll-paper cutters for printing and sealing wrappers. No. 1,436,257; Nov. 21.
- Hogan, Jay J., assignor to Hogan-Spencer-Whitley Company, Erie, Pa. Detachable machine coupling. No. 1,413,119; Apr. 18.
- Hogan, John J., St. Louis, Mo. Detachable arm for reclining chairs. No. 1,420,924; June 27.
- Hogan, John J., St. Louis, Mo. Attachment for reclining chairs. No. 1,427,292; Aug. 29.
- Hogan, John T., Denver, Colo. Ore-grinding disk. No. 1,435,130; Nov. 7.
- Hogan-Spencer-Whitley Company. (See Hogan, Jay J., assignor.)
- Hogan-Spencer-Whitley Company. (See Spencer, John R., assignor.)
- Höganäs-Billesholms Aktiebolag. (See Sieurin, Sven E., assignor.)
- Hogarth, Forest E., Spokane, Wash. Automatic spring oiler. No. 1,403,413; Jan. 10.
- Hoge, Daniel W., assignor, by mesne assignments, to Bash Oil and Refining Company, Chicago, Ill. Apparatus for treating petroleum vapor. No. 1,418,375; June 6.
- Hoge, Frederick, Zoug, Switzerland. Leading-in wires for incandescent electric lamps. No. 1,422,443; July 11.
- Hoge, William L., Louisville, Ky. Toy vehicle. No. 1,414,950; May 2.
- Högel, Karl G. L., Stockholm, Sweden. Automatic circuit breaker. No. 1,433,277; Oct. 24.

Alphabetical list of patentees—Continued.

- Hogg, Francis, Pittsburgh, Pa., assignor to Locomotive Stoker Company. Locomotive tender. No. 1,417,322; May 23.
- Hogg, Harry. (See Larson, Gus, assignor.)
- Hogg, John W., Norristown, Pa. Volumetric gas-analyzing apparatus. No. 1,435,846; Nov. 14.
- Hogg, Malcolm, Youngstown, Ohio. Automobile lock. No. 1,411,728; Apr. 4.
- Hoglund, Erick. (See Strom, M., and Hoglund.)
- Hogshead, Edgar S., Mount Solon, and R. C. Hogshead, Gordonsville, Va. Tire chain. No. 1,409,296; Mar. 14.
- Hogshead, Edgar S., Mount Solon, and R. C. Hogshead, Gordonsville, Va. Tire-chain fastener. No. 1,414,467; May 2.
- Hogshead, Rodney C. (See Hogshead, Edgar S. and R. C.)
- Hogue, Oliver D., Brookline, Mass. Humidifying apparatus. No. 1,430,548; Oct. 3.
- Hogue, William T., St. James, Mo. Tire shield. No. 1,436,102; Nov. 21.
- Hohberg, Paul O., Brooklyn, assignor to H. Salpeter, New York, N. Y. Can opener. No. 1,433,509; Oct. 24.
- Hohein, George C., Clarendon, Va. Envelope. No. 1,403,414; Jan. 10.
- Hohl, George M., Bethlehem, Pa., assignor to Bethlehem Steel Company. Automatic hot-blast temperature-control mechanism. No. 1,435,119; Nov. 7.
- Hohl, Paul E., Cleveland, Ohio. Incandescent lamp. No. 1,439,471; Dec. 19.
- Hohmann, Phillip H., and E. E. Innis, Laurel, Mont. Stove. No. 1,421,233; June 27.
- Hohn, William. (See Johns, Harry A., assignor.)
- Hohol, Anton. (See Chochol, Joseph, assignor.)
- Holland, Albert, Fargo, N. Dak. Bolt clipper. No. 1,411,785; Apr. 4.
- Holtsma, Peter, Paterson, N. J. Scaffold machine. No. 1,416,296; May 16.
- Höjer, Anders G. (See Linden, G. N., and Höjer.)
- Hojnowski, Jakob, Neokosa, Wis. Expandible spike or nail. No. 1,433,206; Oct. 24.
- Hokamp, Frederick W., Belden, Nebr. Clutch lever for Samson tractors. No. 1,440,296; Dec. 26.
- Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Typewriter escapement mechanism. No. 1,419,138; June 13.
- Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Ribbon mechanism for typewriters. No. 1,421,780; July 4.
- Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Cover for typewriter keys. No. 1,422,267; July 11.
- Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Platen-carriage mechanism for typewriters. No. 1,427,470; Aug. 29.
- Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Ribbon vibrator for typewriters. No. 1,432,183; Oct. 17.
- Hoke, Harry A., Altoona, Pa. Safety railway-vehicle coupling. No. 1,404,292; Jan. 24.
- Hoke, Jacob F. (See Holcomb, J. I., and Hoke.)
- Hoke, John I. (See Hoke, Lynn I. and J. I.)
- Hoke, John I., Medina, N. Y. Traction wheel. No. 1,425,258; Aug. 8.
- Hoke, John I. and L. I., South Bend, Ind. Clod crusher and packer. No. 1,424,906; Aug. 8.
- Hoke, Lynn I. (See Hoke, John I. and L. I.)
- Hoke, Lynn I. and J. I., South Bend, Ind. Pulverizer. No. 1,424,358; Aug. 1.
- Hoke, Sam W., Palisade, N. J. Torch for melting precious metals. No. 1,438,999; Dec. 19.
- Hoke, William E., Washington, D. C. Method of and means for detecting defects in paramagnetic material. No. 1,426,384; Aug. 22.
- Hoke, William E., St. Louis, Mo. Burner construction. No. 1,427,738; Aug. 29.
- Hokkanen, Theophilus, New York, N. Y. Valise. No. 1,413,852; Apr. 25.
- Hokky, Stephen. (See Waldmann, E., and Hokky.)
- Holahan, John J., Norfolk, Va. Mechanical construction of electrical motors. No. 1,415,564; May 9.
- Holan, Henry J. (See Batla, T. H., and Holan.)
- Holappa, Peter. (See Tantilla, H., and Sorola, assignors.)
- Holbourns, John G., assignor to Linotype and Machinery Limited, London, England. Apparatus for casting type bars or slugs. No. 1,415,445; May 9.
- Holbrook, David M., Portland, Oreg. Boiler for incubator heaters. No. 1,417,522; May 30.
- Holbrook, Henry E., Boston, Mass. Folding crib. No. 1,435,299; Nov. 14.
- Holcomb, Arthur L., New Canaan, Conn. Household apparatus for kitchen and culinary uses. No. 1,437,056; Nov. 28.
- Holcomb, Frank E., assignor of one-half to The Williams Foundry and Machine Co., Akron, Ohio. Pressed-steel vulcanizer. No. 1,436,041; Nov. 21.
- Holcomb, James I., and J. F. Hoke, Jr., assignors to Holcomb & Hoke Manufacturing Company, Indianapolis, Ind. Buttering device. No. 1,410,307; Mar. 21.
- Holcomb & Hoke Manufacturing Company. (See Holcomb, J. I., and Hoke, assignors.)
- Holcroft, Charles T., Detroit, Mich. Annealing malleable cast iron. No. 1,422,710; July 11.
- Holcroft, George F. (See MacIlwaine, A. W., and Holcroft.)
- Holdaway, William S., Salt Lake City, Utah. Pump. No. 1,423,768; July 25.
- Holden, Crofton C., assignor to Royal Comb Company, Leominster, Mass. Top for hand bags, etc. No. 1,426,078; Aug. 15.
- Holden, Edward A. T., Duluth, Minn. Automatic gas-controlling device. No. 1,420,702; June 27.
- Holden, Isidore. (See Hoffman, S., Schwartz, and Holden.)
- Holden, John P., assignor to Reliance Curing Core Limited, Toronto, Ontario, Canada. Vulcanizing tool. No. 1,413,533; Apr. 18.
- Holden, Joseph B., Syracuse, assignor to Remington Typewriter Company, Iilon, N. Y. Typewriting machine. No. 1,418,077; May 30.
- Holden, Joseph B., Syracuse, assignor to Remington Typewriter Company, Iilon, N. Y. Typewriting machine. No. 1,424,409; Aug. 1.
- Holden, Joseph B., Syracuse, assignor to Remington Typewriter Company, Iilon, N. Y. Typewriting machine. No. 1,437,520; Dec. 5.
- Holder, Edward P. (See Morgan, H. W., and Holder.)
- Holder, William H., Moscow, Pa. Mirror fastener. No. 1,416,826; May 23.
- Holder, William R., Lodge, Tenn. Harrow. No. 1,431,229; Oct. 10.
- Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Compressor-controlling mechanism. No. 1,408,942; Mar. 7.
- Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Compressor-controlling mechanism. No. 1,408,943; Mar. 7.
- Holdsworth, Fred D., and C. W. Wyman, assignors to Sullivan Machinery Company, Claremont, N. H. Unloader for compressors and other devices. No. 1,404,175; Jan. 17.
- Hole, Herbert W., Willesden Junction, London, England, assignor to Joseph Baker Sons and Perkins Company, Incorporated, White Plains, N. Y. Biscuit cutting and embossing machine. No. 1,421,349; June 27.
- Holfield, Joseph A., Mobile, Ala. Arc-current regulator. No. 1,415,565; May 9.
- Holladay, James A. (See Becket, F. M., and Holladay.)
- Holland, Albert E., et al., trustees. (See Stevens, H. R., Rockwell, and Howe, assignors.)
- Holland, Edward M., et al. (See Putney, William W., assignor.)
- Holland, Ezekiel H., Byron, Ga. Refrigerator. No. 1,428,591; Sept. 12.
- Holland, Frank P., Sr. (See McGraw, C. O., and Martin, assignors.)
- Holland, George L., St. Petersburg, Fla. Ice conserver. No. 1,424,477; Aug. 1.
- Holland, George R., Naugatuck, Conn. Window-shade fixture. No. 1,422,056; July 4.
- Holland, Kirk D., Chicago, Ill. Piston. No. 1,419,928; June 20.
- Holland-Leiz, Ltd., Oak Park, Ill., assignor to International Harvester Company. Fiber-handling mechanism. No. 1,415,930; May 16.
- Holland, Nathaniel G., Norfolk, Va. Piston and valve. No. 1,433,760; Dec. 12.
- Holland, Newman H., assignor to New Jersey Patent Company, West Orange, N. J. Phonograph. No. 1,420,316; June 20.
- Holland, Newman H., assignor to New Jersey Patent Company, West Orange, N. J. Sound-recording apparatus. No. 1,420,317; June 20.
- Holland, Victor C., Keene, N. H. Reproducer. No. 1,407,539; Feb. 21.
- Holland, William A., London, Ohio. Metallic fence post. No. 1,437,057; Nov. 28.
- Holland, William S., Arrington, Va. Tractor wheel. No. 1,402,611; Jan. 8.
- Holland, William W., Chicago, Ill. Anticreeping device. No. 1,420,703; June 27.
- Holland, William W., Chicago, Ill. Flexible toy animal. No. 1,436,258; Nov. 21.
- Hollander, George J., Evanston, Ill. Electric lantern. No. 1,438,179; Dec. 12.
- Hollander, John S., De Quincy, La. Fencepost. No. 1,425,653; Aug. 15.
- Hollar Company, The. (See Kennedy, Anthony, assignor.)
- Holle, Alexander A., Hyde Park, London, England. Screw propeller and the like. No. 1,423,113; July 18.
- Holle, Alexander A., London, England. Control of aeroplanes. No. 1,438,242; Dec. 12.
- Holle, August, Dusseldorf, assignor to Maschinenbau-Aktiengesellschaft Balcke, Bochum, Germany. Preventing the deposition of scale or sludge from the cooling water in surface steam condensers. No. 1,405,783; Feb. 7.
- Hollenbach, Edward. (See Fry, I. H., and Hollenbach.)
- Hollenbach, George M., Lewiston, Mont. Handpiece for dental instruments. No. 1,408,197; Feb. 28.
- Hollenbach, George M., Los Angeles, Calif. Fluid heater. No. 1,408,198; Feb. 28.
- Hollenbeck, Michael J., Gloversville, N. Y. Mitten. No. 1,417,323; May 23.
- Holler, Albert E., Erie, Pa. Pistol-holding device. No. 1,430,081; Sept. 26.

Alphabetical list of patentees—Continued.

- Holler, George F., Cincinnati, Ohio, and E. Schmidt, Covington, Ky., assignors to The Monitor Stove Company, Cincinnati, Ohio. Furnace-draft-door control. No. 1,438,037; Dec. 5.
- Holler, Homer D. (See Vinal, G. W., and Holler.)
- Holley, Albert B., Virginia, Minn. Conveyer loader. No. 1,408,299; Feb. 28.
- Holley, George M. (See Anderson, Raymond M., assignor.)
- Holley, William V., New York, N. Y., assignor to New York Bath Manufacturing Co. Service box or tray. No. 1,426,079; Aug. 15.
- Holley, William V., New York, N. Y., assignor to New York Bath Manufacturing Co. Service wagon. No. 1,427,388; Aug. 29.
- Hollick, Walter J., Manchester, England. Coupling. No. 1,425,525; Aug. 15.
- Holliday, James M., Hollister, Mo. Well bucket. No. 1,423,424; July 18.
- Holliday, John F., assignor to Hinchner Manufacturing Company, Washington, Ind. Folding stepladder stool. No. 1,427,293; Aug. 29.
- Holliday, John S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electric motor. No. 1,437,421; Dec. 5.
- Holliday, L. B., & Co. Limited. (See Holliday, L. B., and Badier, assignors.)
- Holliday, Lionel B., and L. G. Badier, assignors to L. B. Holliday & Co. Limited, Huddersfield, England. Manufacture of picric acid from dinitrophenol in crystal form and the elimination therefrom of the sulphate of lead. No. 1,413,914; Apr. 25.
- Hollidge Badger Corporation. (See Badger, George L., assignor.)
- Holliman, Robert L., and J. W. Collins, Valdosta, Ga. Driver for disk talking machines. No. 1,406,864; Feb. 14.
- Hollingsworth, Samuel, Scotch Plains, assignor to Bank-note Press Company, Plainfield, N. J. Printing-plate clamp. No. 1,401,982; Jan. 3.
- Hollingsworth, Samuel, Scotch Plains, assignor to Bank-note Press Company, Plainfield, N. J. Intaglio-printing machine. No. 1,402,295; Jan. 3.
- Hollinwood, George, Cranford, N. J. Combination compass and sun dial. No. 1,418,926; June 6.
- Hollis, William H., Germantown, assignor of one-half to Dr. V. Pinnock-Bailey, Philadelphia, Pa. Wash-basin for automobiles. No. 1,422,763; July 11.
- Hollister, Clarence P., New York, N. Y. Lubricating system for internal-combustion engines. No. 1,403,957; Jan. 17.
- Hollister, Clarence P., New York, N. Y. Lubrication of internal-combustion engines. No. 1,414,644; May 2.
- Hollister, George S. (See Callum, H. B. M., and Hollister.)
- Hollister, John R. (See Palmer, C. L., and Hollister.)
- Hollomon, Fred, Dunnellon, Fla. Locomotive oiling appliance. No. 1,432,557; Oct. 17.
- Holloway, W. W., Wheeling, W. Va., and H. Kielberg, Martins Ferry, Ohio, assignors to Whitaker-Glessner Company, Wheeling, W. Va. Burner-supporting bracket for oil stoves. No. 1,403,551; Jan. 17.
- Hollowell, William C., Goldsboro, N. C. Device for rendering lard. No. 1,432,754; Oct. 24.
- Höllrigl, Luis. (See Gravenhorst, O., and Höllrigl.)
- Holly, Carlos, Lockport, N. Y., assignor to F. N. Burt Company, Limited, Toronto, Ontario, Canada. Box-feeding mechanism. No. 1,411,699; Apr. 4.
- Holm, Andrew, Chicago, Ill. Dust-cloth container. No. 1,428,286; Sept. 5.
- Holm, John A., Albany, N. Y., assignor to Blublaze Motor Specialties Corp., Long Island City, N. Y. Timer. No. 1,427,594; Aug. 29.
- Holm, John D., New York, N. Y. Race game apparatus. No. 1,402,423; Jan. 3.
- Holman, Arthur L. (See Reynolds, L. G., and Holman.)
- Holman, Benjamin T., Sewickley Township, Allegheny County, assignor of one-half to K. J. Eckert, Economy Township, Pa. Spudding shoe. No. 1,409,177; Mar. 14.
- Holman, Harry V., Chicago, Ill. Clamp. No. 1,403,953; Jan. 17.
- Holman, Ida C., et al. (See Thomas, Martin E., assignor.)
- Holman, Joseph H. (See Nettle, W. E., Selby, Blythe, and Holman.)
- Holman, Rudolph, assignor to The Vortex Mfg. Co., Chicago, Ill. Paper vessel. No. 1,435,120; Nov. 7.
- Holman, William E., et al., trustees. (See Lloyd, Marshall B., assignor.)
- Holman, William W., Washington, D. C. Identification tag. No. 1,430,995; Oct. 3.
- Holmberg, Edgar T., assignor to The James H. Herron Company, Cleveland, Ohio. Heat insulating and resisting material. No. 1,404,438; Jan. 24.
- Holmberg, Edgar T., assignor to The J. H. Herron Company, Cleveland, Ohio. Fireproof furniture. No. 1,412,784; Apr. 11.
- Holmberg, Johan O., Quincy, Mass. Machine for bending metal. No. 1,406,384; Feb. 14.
- Holmberg, Johan O., Quincy, Mass. Combination door-knob. No. 1,434,821; Nov. 7.
- Holmberg, Oscar F., Chicago, Ill. Egg-dipping machine. No. 1,418,927; June 6.
- Holmberg, Theodore A., Stamford, Conn. Heating system. No. 1,426,643; Aug. 22.
- Holmen, Jacob, Racine, Wis. Shoe guard. No. 1,428,232; Sept. 5.
- Holmes, Alexander. (See Harvey, R., and Holmes.)
- Holmes, Andrew J., Tacoma, Wash. Winding mechanism. No. 1,415,644; May 9.
- Holmes, Andrew J., assignor to Big-Four Electric Company, Tacoma, Wash. Induction water heater. No. 1,425,968; Aug. 15.
- Holmes, Bradford B., New York, N. Y. Auxiliary cushion for automobiles. No. 1,405,215; Jan. 31.
- Holmes, Bradford B., New York, N. Y. Ordnance. No. 1,416,827; May 23.
- Holmes, Bradford B., New York, N. Y. Firearm. No. 1,416,828; May 23.
- Holmes, Bradford B., U. S. Army. Recuperator system for cannon. No. 1,413,534; Apr. 18.
- Holmes, Bradford B., Bellingham, Wash. Forming helically-convoluted tubes. No. 1,417,324; May 23.
- Holmes, Bradford B., U. S. Army. Pump. No. 1,436,443; Nov. 21.
- Holmes, Bradford B., New York, N. Y. Refrigerating apparatus. No. 1,436,444; Nov. 21.
- Holmes, Bradford B., Bellingham, Wash. Vehicle suspension. No. 1,437,894; Dec. 5.
- Holmes, Bradford B., New York, N. Y. Vehicle air spring. No. 1,438,527; Dec. 12.
- Holmes, Bradford B., New York, N. Y. Pneumatic cushion. No. 1,439,417; Dec. 19.
- Holmes, Charles W. (See Holmes, Robert E. L., and C. W.)
- Holmes, David D., New York, N. Y. Replacer for rolling stock of railways. No. 1,403,247; Jan. 10.
- Holmes, E. & B., Machinery Co. (See Beugler, Edwin F., assignor.)
- Holmes, Edward. (See Egbert, A., and Holmes.)
- Holmes, Edward. (See Lightner, A. D., and Holmes.)
- Holmes, Edward. (See Thompson, F. H., and Holmes.)
- Holmes, Edward, Toledo, Ohio. Wire tie. No. 1,421,781; July 4.
- Holmes, Edward, assignor to The Willys-Overland Company, Toledo, Ohio. Decking apparatus for vehicles. No. 1,421,782; July 4.
- Holmes, Ernest, Company. (See Holmes, Ernest, assignor.)
- Holmes, Ernest, assignor to Ernest Holmes Company, Chattanooga, Tenn. Towing head. No. 1,435,063; Nov. 7.
- Holmes, Ernest, assignor to Ernest Holmes Company, Chattanooga, Tenn. Towing device. No. 1,435,064; Nov. 7.
- Holmes, Ernest, assignor to Ernest Holmes Company, Chattanooga, Tenn. Towing and hoisting device. No. 1,435,065; Nov. 7.
- Holmes, Frank M., assignor of one-third to W. L. Valentine and one-third to G. D. Rigsby, Wichita Falls, Tex. Electric battery. No. 1,433,136; Oct. 24.
- Holmes, Fred A., Belfast, Me. Adz. No. 1,428,287; Sept. 5.
- Holmes, Frederick A., Dallas Center, Iowa. Tractor fender. No. 1,405,216; Jan. 31.
- Holmes, Frederick H. (See Armitage, C. F., Holmes, and Berry.)
- Holmes, George A., Newton Center, Mass., assignor to United States Fastener Company. Stud and socket fastener. No. 1,421,476; July 4.
- Holmes, Grant. (See King, George W. and C. S., Jacoby, Roush, and Holmes.)
- Holmes, Gustav E., J. M. Bostrom, and A. G. Bostrom, Milwaukee, Wis. Side-curtain door. No. 1,416,028; May 16.
- Holmes, Gustav E., and J. M. and A. G. Bostrom, Milwaukee, Wis. Automobile enclosure. No. 1,431,230; Oct. 10.
- Holmes, Gustav E., J. M. and A. G. Bostrom, Milwaukee, Wis. Windshield weather seal. No. 1,418,305; June 6.
- Holmes, Gustavus S. (See Bryant, Thomas, assignor.)
- Holmes, Harry N., and D. H. Cameron, Oberlin, Ohio. Printing or lithographing ink. No. 1,410,012; Mar. 21.
- Holmes, Harry N., and D. H. Cameron, Oberlin, Ohio. Emulsion. No. 1,429,430; Sept. 19.
- Holmes, Henry, Brooklyn, assignor of three-fourths to J. F. McPhee, New York, N. Y. Power-driven saw. No. 1,411,967; Apr. 4.
- Holmes, Joseph O., Lynn, Mass. Curtain confiner. No. 1,412,407; Apr. 11.
- Holmes, Joy B., Pasadena, Calif. Cork stopper for thermos bottles and the like. No. 1,434,342; Oct. 31.
- Holmes, Maude E., administratrix. (See Ogden, William P.)
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Truck. No. 1,411,026; Mar. 28.
- Holmes, Morris P., Claremont, N. H., assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining machine. No. 1,413,868; Apr. 18.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. No. 1,428,503; Sept. 5.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Brake. No. 1,431,115; Oct. 3.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. No. 1,435,137; Nov. 7.

Alphabetical list of patentees—Continued.

- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Reversible friction truck drive. No. 1,435,903; Nov. 14.
- Holmes, Morris P., Claremont, N. H., assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining machine. No. 1,428,634; Sept. 12.
- Holmes, Morris P., Claremont, N. H., assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Columbus, Ohio. Clutch-controlling mechanism. No. 1,430,520; Sept. 26.
- Holmes, Morris P., Claremont, N. H., assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining machine. No. 1,430,521; Sept. 26.
- Holmes, Morris P., Claremont, N. H., assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining machine. No. 1,430,522; Sept. 26.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining-machine jack. No. 1,439,677; Dec. 19.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Rotary engine. No. 1,440,265; Dec. 26.
- Holmes, Percy J., and A. J. La Montagne, assignors to The Holmes Special Tool Co., New Haven, Conn. Shock absorber. No. 1,410,253; Mar. 21.
- Holmes, Robert E. L., Philadelphia, Pa., and C. W. Holmes, New York, N. Y., assignors to Keystone Driller Company, Beaver Falls, Pa. Sucker rod. No. 1,406,017; Feb. 7.
- Holmes, Roy H., Atlanta, Ga. Combination baby chair and crib. No. 1,403,552; Jan. 17.
- Holmes, Samuel A., Storm Lake, Iowa. Crutch chair. No. 1,433,873; Oct. 24.
- Holmes Special Tool Co., The. (See Holmes, P. J., and La Montagne, assignors.)
- Holmes, Stanley W., San Diego, Calif. Holder or press for tennis rackets and similar articles. No. 1,437,378; Nov. 28.
- Holmes, Walter G., Minneapolis, Minn. Knockdown dental and surgical table. No. 1,422,101; July 11.
- Holmes, William, Niagara Falls, Ontario, Canada. Combined auto jack and wheel puller. No. 1,412,180; Apr. 11.
- Holmes, William T., Baltimore, and G. H. Whittingham, Bancroft Park, Md., assignors to Monitor Controller Company of Baltimore. Motor controller. No. 1,411,700; Apr. 4.
- Holmested, Francis K., Charleston, and T. W. Mitchell, assignors to Steel Products Co., Huntington, W. Va. Loading-machine attachment. No. 1,433,011; Oct. 24.
- Holmgren, Arthur G., Ruddell, Saskatchewan, Canada. Tinting shuttle. No. 1,432,184; Oct. 17.
- Holmgren, Charles H., Bloomfield, N. J. Centrifugal separator. No. 1,417,064; May 23.
- Holmgren, Gottfrid, W. A. Scharnhorst, R. W. Trask, and E. C. Russell, Duluth, Minn. Mixing device. No. 1,436,172; Nov. 21.
- Holmgren, John E., San Francisco, Calif. Switch for automobile direction indicators. No. 1,426,193; Aug. 15.
- Holmquist, August, Monroe, Wash. Stove. No. 1,415,349; May 9.
- Holmquist, August, Hoopston, assignor to Sprague Canning Machinery Company, Chicago, Ill. Nozzle cleaner. No. 1,435,300; Nov. 14.
- Holmstrom, Frank, jr., Chicago, Ill., assignor, by mesne assignments, to C. R. Bennett, Kansas City, Mo. Telephone reproducer. No. 1,430,082; Sept. 26.
- Holmwood, Edgar L., Masterton, New Zealand. Door or gate hinge. No. 1,436,765; Nov. 28.
- Holophane Glass Company, Inc. (See Dorey, William A., assignor.)
- Holquist, William A., Los Angeles, Calif. Key-locking device. No. 1,418,872; June 6.
- Holsberg, George A., San Francisco, Calif. Windshield sunshade. No. 1,421,942; July 4.
- Holschub, William J., Detroit, Mich. Resilient wheel. No. 1,436,042; Nov. 21.
- Holsinger, Charles, Kendallville, Ind. Metallic fence post. No. 1,407,540; Feb. 21.
- Holslag, Claude J., South Orange, N. J. Arc-welding system. No. 1,408,805; Mar. 7.
- Holson, Albert B. (See Holson, Dwight B., assignor.)
- Holson, Dwight B., assignor of one-half to A. B. Holson, Los Angeles, Calif. Flying machine. No. 1,414,186; Apr. 25.
- Holst, Gilles, and E. Oosterhuis, Eindhoven, assignors to Naamlooze Vennootschap Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Rectifier for alternating currents. No. 1,410,062; Mar. 21.
- Holst, Gilles, and E. Oosterhuis, assignors to Naamlooze Vennootschap Philips' Gloeilampen-Fabriken, Eindhoven, Netherlands. Vacuum tube. No. 1,410,756; Mar. 28.
- Holstein, Benjamin F., and H. L. Gunter, Wagener, S. C. Reel attachment for mowing machines. No. 1,402,360; Jan. 3.
- Holstein, John V., assignor to Deere & Company, Moline, Ill. Riding attachment. No. 1,435,161; Nov. 14.
- Holstein, Paul W., Columbus, Ohio. Car-unloading apparatus. No. 1,412,869; Apr. 18.
- Holt, Charles A., Cambridge, assignor to Union Industrial Company, Boston, Mass. Spinning ring. No. 1,423,216; July 18.
- Holt, Christopher K., Honolulu, Hawaii. Traction device for wheels. No. 1,427,813; Sept. 5.
- Holt, Daniel S., Mittineague, Mass. Circuit closer. No. 1,410,308; Mar. 21.
- Holt, Edward E., Chicago, Ill. Cream whip and the like. No. 1,426,080; Aug. 15.
- Holt, Frank P., Fort Worth, Tex. Paper clip. No. 1,418,306; June 6.
- Holt, Harold E. S., Farnborough, England. Landing light or flare for attaching to aircraft. No. 1,423,326; July 18.
- Holt Manufacturing Company, The. (See Norelius, Emil F., assignor.)
- Holt Manufacturing Company, The. (See Squyer, Albert R., assignor.)
- Holt Manufacturing Company, The. (See Turnbull, William, assignor.)
- Holt Manufacturing Company, The. (See Wickersham, Elmer E., assignor.)
- Holt, William A., Mebane, N. C. Spring. No. 1,435,607; Nov. 14.
- Holt, William H., Omaha, Nebr. Damper-regulating means for furnaces. No. 1,420,704; June 27.
- Holte, Halvor, assignor of one-half to A/S Separator, Skien, Norway. Lubricating device for milk centrifuges and the like. No. 1,416,640; May 16.
- Holte, Nordahl E. (See Prabst, A. C., and Holte.)
- Holterud, Samuel, Duluth, Minn. Wind wheel. No. 1,415,645; May 9.
- Holtfoth, Joachim T., Highland Park, assignor to L. A. Young Industries, Inc., Detroit, Mich. Spring-cushion structure. No. 1,439,891; Dec. 26.
- Holton, Birchard E., Los Angeles, Calif. Nozzle for air brushes. No. 1,430,506; Sept. 26.
- Holtz, Gustav, Gouldsboro, Pa. Filling anchor for teeth and applying same. No. 1,416,558; May 16.
- Holtzclaw, James H., Wichita, Kans. Road-building machine. No. 1,404,612; Jan. 24.
- Holtzclaw, Sidney, Kansas City, Kans. Cigarette case. No. 1,422,975; July 18.
- Holy, George H. F., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Vehicle suspension. No. 1,411,027; Mar. 28.
- Holy, George H. F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,430,549; Oct. 3.
- Holy, George H. F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Spring-locking device. No. 1,431,954; Oct. 17.
- Holyoke Vacuum Sluice Company. (See Schwartz, Daniel H., assignor.)
- Holzappel, Albert C., New York, N. Y. Paint. No. 1,422,711; July 11.
- Holzappel, Albert C., New York, N. Y. Coating composition. No. 1,430,083; Sept. 26.
- Holzappel, Albert C., New York, N. Y. Surface-coating composition. No. 1,431,801; Oct. 10.
- Holzappel, John A., Jackson, Mich. Wringer for anchor ropes. No. 1,432,185; Oct. 17.
- Holzoverkohlungs-Industrie Actien-Gesellschaft. (See Roka, Koloman, assignor.)
- Homan, Frank L., Omaha, Nebr. Water gauge. No. 1,432,024; Oct. 17.
- Homan, John G., Steubenville, Ohio. Resistance unit. No. 1,431,231; Oct. 10.
- Homan, Louis V., South Dartmouth, Mass. Conduit for power-transmitting cables. No. 1,425,090; Aug. 8.
- Homann, Albert, Pittsburgh, Pa. Nut-locking tool. No. 1,407,276; Feb. 21.
- Homans, Thomas S., assignor to Intertype Corporation, Brooklyn, N. Y. Typographical machine. No. 1,426,194; Aug. 15.
- Hommel, Oscar, Pittsburgh, Pa. Coating material. No. 1,419,258; June 13.
- Homola, Abraham, Fargo, N. Dak. Horizontal windmill. No. 1,411,097; Mar. 28.
- Homolle, Robert, assignor to La Societe Bournisien, Beau et Cie., Paris, France. Protective casing for safes. No. 1,410,808; Mar. 28.
- Honderik, Francis I., et al. (See Purcell, Benjamin H., assignor.)
- Honecker, Carl V., Brookville, Ind. Solid tire. No. 1,408,701; Mar. 7.
- Honegger, Albert, assignor to Maschinenfabrik Ruti, formerly Caspar Honegger, Ruti, Switzerland. Operating mechanism for power-driven looms. No. 1,418,646; June 6.
- Honey, Albert H. (See Lobel, Herman, assignor.)
- Honeywell Heating Specialties Company. (See Roby, Kenneth K., assignor.)
- Hongler, Elizabeth, Philadelphia, Pa. Fastening device. No. 1,439,168; Dec. 19.
- Honig, Sigmund, New York, N. Y. Telephone receiver. No. 1,417,479; May 23.
- Honka, John W., Negaunee, Mich. Sound box for phonographs. No. 1,404,769; Jan. 31.
- Honma, Tetsuo, London, England. Handbox. No. 1,428,092; Sept. 5.

Alphabetical list of patentees—Continued.

- Hons, Henry F., Jr., San Francisco, Calif., assignor to Duplex Transmission-Band, Inc. Transmission band. (Reissue.) No. 15,271; Jan. 17.
- Honsberg, Emil E., Washington, D. C. Recoil and counter-recoil brake for guns. No. 1,411,627; Apr. 4.
- Honsinger, Joel, Montreal, Quebec, Canada. Root harvester. No. 1,436,396; Nov. 21.
- Hood, Claire C., Dore, N. Dak. Clod crusher. No. 1,418,260; May 30.
- Hood, Delaware J., Philadelphia, Pa. Talking machine. No. 1,422,712; July 11.
- Hood, George B., Toronto, Ontario, Canada. Fuel cabinet. No. 1,419,259; June 13.
- Hood, Harry A., Quincy, Mass. Turbine. No. 1,414,984; May 2.
- Hood, John D., Philadelphia, Pa. Engine-valve gear. No. 1,414,739; May 2.
- Hood, John J., London, England, assignor to The Oil Refining Improvements Company, Limited, Glasgow, North Britain. Purification of petroleum oils. No. 1,404,293; Jan. 24.
- Hood, John J., London, England, assignor to The Oil Refining Improvements Company, Limited, Glasgow, North Britain. Purification of petroleum oils. No. 1,404,294; Jan. 24.
- Hood, John L., Pawtucket, R. I. Box. No. 1,411,434; Apr. 4.
- Hood, Raymond M., New York, N. Y., and W. F. Goodnow, Greenwich, Conn., assignors of one-third to P. Mori, New York, N. Y. Radiator. No. 1,411,659; Apr. 4.
- Hood, Richard W., Chicago, Ill. Game of skill. No. 1,430,903; Oct. 3.
- Hood Rubber Company. (See Glidden, A. A., La Fayette, and Gaubhan, assignors.)
- Hood Rubber Company. (See Perrault, J. E., and Roper, assignors.)
- Hood, William, assignor to Crescent Feather Company, San Francisco, Calif. Feather-cleaning machine. No. 1,413,120; Apr. 18.
- Hood, William S., assignor, by mesne assignments, to P. G. Caldwell, San Antonio, Tex. Valve-grinding implement. No. 1,413,273; Apr. 18.
- Hoof, Addison C., Chicago, Ill. Steel cushion wheel. No. 1,422,976; July 18.
- Hoover, Charles F., Seattle, Wash. Electropneumatic lubricating system. No. 1,409,178; Mar. 14.
- Hoover, Charles F., Seattle, Wash. Time-controlling device for automatic flange oilers. No. 1,438,761; Dec. 12.
- Hook, Benton A., Escondido, Calif. Apparatus for agitating fluid masses. No. 1,427,210; Aug. 29.
- Hook, C. Howard. (See Miller, Arnold W., assignor.)
- Hook, Henry C., Windsor, Vt., assignor, by mesne assignments, to Aluminum Manufactures Incorporated, Cleveland, Ohio. Blank holding and ejecting mechanism. No. 1,426,738; Aug. 22.
- Hook, John C. (See Hyde, R. R., and Hook.)
- Hooker Electrochemical Company (See Ralston, Oliver C., assignor.)
- Hooker Electrochemical Company. (See Sherwood, Joseph J., assignor.)
- Hooker Electrochemical Company. (See Stuart, Kenneth E., assignor.)
- Hooker Electrochemical Company. (See Townsend, Clinton P., assignor.)
- Hooker Electrochemical Company. (See Williams, Clyde E., assignor.)
- Hooker, Walter P., Salisbury, N. C. Sewerage disposal tank. No. 1,406,385; Feb. 14.
- Hookless Fastener Company. (See Sundback, Gideon, assignor.)
- Hoole Machine & Engraving Works. (See Schnaars, David R., assignor.)
- Hoon, K. C. (See Cathcart, William A. P., assignor.)
- Hooper, Charles L., Rochester, assignor to Vacuum Oil Company, New York, N. Y. Bung for barrels. No. 1,402,231; Jan. 3.
- Hooper, Charles L., Rochester, N. Y., assignor to Vacuum Oil Company, New York, N. Y. Apparatus for casing cans. No. 1,422,057; July 4.
- Hooper, Edward. (See Anthony, David S., assignor.)
- Hooper, James P., Ruxton, Md. Converting viscous materials. No. 1,413,332; Apr. 18.
- Hoopes, William, assignor to Aluminum Company of America, Pittsburgh, Pa. Charge or block for use in practicing processes involving chemical reactions, more particularly reactions between solid and gaseous bodies, and making the same. No. 1,415,036; May 9.
- Hoopes, William, assignor to Aluminum Company of America, Pittsburgh, Pa. Apparatus for making aluminum nitride and other chemical substances. No. 1,415,446; May 9.
- Hoosier Clutch Company. (See Wood, Clarence G., assignor.)
- Hoosier Manufacturing Company. (See Hall, Harry A., assignor.)
- Hoosier Stove Company. (See Blackburn, Edward E., assignor.)
- Hooton, Claude A., assignor to Hardwicke-Etter Company, Sherman, Tex. Gln attachment. No. 1,429,947; Sept. 26.
- Hooven & Allison Company, The. (See Regan, Albert L., assignor.)
- Hoover, Charles O., assignor to The Hoover Company, Chicago, Ill. Separating aluminum chloride from heavy hydrocarbon. No. 1,426,081; Aug. 15.
- Hoover, Chester L., Converse, Ind. Basket. No. 1,438,038; Dec. 5.
- Hoover, Clair G., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-making method and apparatus. No. 1,435,895; Nov. 14.
- Hoover Company, The. (See Hoover, Charles O., assignor.)
- Hoover Company, The. (See Owen, Ernest V., assignor.)
- Hoover, Edgar B., Pasco, Wash. Rotary pump. No. 1,414,512; May 2.
- Hoover, Edgar B., assignor of one-third to J. W. Imlay, Walla Walla, Wash. Continuous-operating ore separator. No. 1,438,708; Dec. 12.
- Hoover, Francis M., Cincinnati, Ohio. Toy bed. No. 1,437,941; Dec. 5.
- Hoover, Howard E., Chicago, Ill., assignor to The Hoover Suction Sweeper Company, New Berlin, Ohio. Electric-cord anchorage. No. 1,402,860; Jan. 10.
- Hoover, Howard E., Chicago, Ill., assignor to The Hoover Suction Sweeper Company, North Canton, Ohio. Electric motor. No. 1,424,164; Aug. 1.
- Hoover, Leslie B., Madisonville, Ky. Bottle-cap-dispensing container. No. 1,426,988; Aug. 22.
- Hoover Suction Sweeper Company, The. (See Case, Francis M., assignor.)
- Hoover Suction Sweeper Company, The. (See Hoover, Howard E., assignor.)
- Hoover Suction Sweeper Company, The. (See Spangler, James M., assignor.)
- Hoover, Wilson W., and T. E. Brown, New York, N. Y. Working oil shales. No. 1,422,204; July 11.
- Hope Construction and Refining Company. (See Garner, J. B., and Preston, assignors.)
- Hope, John T., Kansas City, Mo. Fan. No. 1,421,477; July 4.
- Hope, Ole J., Chicago, Ill. Scraper attachment for paint-brushes. No. 1,421,478; July 4.
- Hope, William H., Providence, R. I. Pantograph engraving machine. No. 1,409,718; Mar. 14.
- Hope, William H., Providence, R. I. Pantograph. No. 1,437,307; Nov. 28.
- Hopedale Manufacturing Company. (See Northrop, Jonas, assignor.)
- Hopewell Brothers. (See Hopewell, Charles F., assignor.)
- Hopewell, Charles F., assignor to Hopewell Brothers, Watertown, Mass. Remote-control mechanism. No. 1,424,410; Aug. 1.
- Hopewell, Charles F., assignor to Hopewell Brothers, Watertown, Mass. Windshield visor. No. 1,430,231; Sept. 26.
- Hopewell, Insulation & Mfg. Co. Incorporated. (See Sonneborn, Sol S., assignor.)
- Hopf, Charles H., Jr., Milwaukee, Wis. Collapsible luggage carrier. No. 1,426,644; Aug. 22.
- Hopf, Herman, Buffalo, N. Y. Stop or locking device. No. 1,434,541; Nov. 7.
- Hopf, William. (See Woelfel, G., and Hopf.)
- Hopkes, Henry, assignor to M. G. Goff, Detroit, Mich. Knife sharpener. No. 1,440,220; Dec. 26.
- Hopkins, Arthur C., Minneapolis, Minn. Shock absorber. No. 1,418,712; June 6.
- Hopkins, Charles E., Plainfield, N. J. Cooling finished stereotype printing plates. No. 1,416,714; May 23.
- Hopkins, Charles E., Plainfield, N. J. Automatic measuring metal conveyor. No. 1,433,278; Oct. 24.
- Hopkins, Charles E., Plainfield, N. J. Semiautomatic plate casting and finishing machine. No. 1,433,549; Oct. 31.
- Hopkins, Charles E., Plainfield, N. J. Machine for casting curved stereotype plates. No. 1,433,550; Oct. 31.
- Hopkins, Edward L., assignor to Jeffrey Manufacturing Company, The, Columbus, Ohio. Mining apparatus. No. 1,414,877; May 2.
- Hopkins, Evan T. (See Layton, J. L., and Hopkins.)
- Hopkins, Frank H., Somerville, Mass., assignor to American Steam Gauge & Valve Manufacturing Company, Boston, Mass. Air-brake recording apparatus. No. 1,404,770; Jan. 31.
- Hopkins, Frank H., Somerville, Mass., assignor to American Steam Gauge & Valve Manufacturing Company, Boston, Mass. Compensating thermometer. No. 1,404,771; Jan. 31.
- Hopkins, George. (See Knece, Allison W., assignor.)
- Hopkins, Jesse T., Kansas City, Mo. Clamping tool. No. 1,405,587; Feb. 7.
- Hopkins, John C., Cedar Rapids, Iowa. Carrier for tokens. No. 1,420,377; June 20.
- Hopkins, Lloyd and M., Wyco, W. Va. Folding draft or blower plate. No. 1,430,013; Sept. 26.
- Hopkins, Matthew S., Reading, Pa. Compound of lime and sulphur stabilized with an aromatic compound. No. 1,422,977; July 18.
- Hopkins, McKinney. (See Hopkins, Lloyd and M.)
- Hopkins, Morton K., assignor to J. L. Kennedy, Chicago, Ill. Fusible link. No. 1,405,512; Feb. 7.
- Hopkins, Morton K., assignor to J. L. Kennedy, Chicago, Ill. Fusible link. No. 1,405,588; Feb. 7.
- Hopkins, Morton K., assignor to J. L. Kennedy, Chicago, Ill. Fusible link. No. 1,416,713; May 23.
- Hopkins, Ogle B., and R. L. Forney, Forsyth, Mont. Cotter-pin puller. No. 1,436,589; Nov. 21.

Alphabetical list of patentees—Continued.

- Hopkins, Richard F., and O. F. Devold, Bartlesville, Okla. Pump. No. 1,423,935; July 25.
- Hopkins, Richard M. (See Jacoby, W. L., and Hopkins.)
- Hopkins, Richard M., Rutherford, assignor to American District Telegraph Company, Jersey City, N. J. Signal transmitter. No. 1,406,865; Feb. 14.
- Hopkins, Sydney B., Summit, N. J., and C. Jelinek, Richmond Hill, N. Y. Stereotyper's and printer's tool. No. 1,421,689; July 4.
- Hopkinson, Ernest, New York, N. Y. Treating fibrous material and product thereof. No. 1,411,786; Apr. 4.
- Hopkinson, Ernest, New York, N. Y. Method and apparatus for manufacturing tires. No. 1,417,739; May 30.
- Hopkinson, Ernest, New York, N. Y. Production of fabrications of rubber and filamentary material and products obtained therefrom. No. 1,424,020; July 25.
- Hopkinson, Ernest, New York, N. Y., assignor to General Rubber Company. Treating rubber-containing latex. No. 1,423,525; July 25.
- Hopkinson, Ernest, New York, N. Y., assignor to General Rubber Company. Product obtained from rubber-containing latex. No. 1,423,526; July 25.
- Hopkinson, Ernest, New York, N. Y., and H. V. Lough, Hartford, Conn.; said Lough assignor of his entire rights to The Hartford Rubber Works Company. Apparatus for building pneumatic tires for automobiles. No. 1,410,309; Mar. 21.
- Hopp, Herman and L., New York, N. Y. Ticket holder. No. 1,417,325; May 23.
- Hopp, Leo. (See Hopp, Herman and L.)
- Hoppe, Gerhard. (See Herzberg, W., and Hoppe.)
- Hoppe, Olga I., Kew Gardens, N. Y. Clasp. No. 1,439,241; Dec. 19.
- Hoppe, Oscar, assignor to R. A. Kempin, Rorschach, Switzerland. Milling machine. No. 1,419,853; June 13.
- Hoppe, Oscar, assignor to R. A. Kempin, Rorschach, Switzerland. Rigid milling machine. No. 1,423,562; July 25.
- Hopper Cannery Machinery Co. (See Hopper, Ernest W., assignor.)
- Hopper, Claud W., et al. (See Thomas, Martin E., assignor.)
- Hopper, Earnest H., Midvale, Idaho. Gearing. No. 1,438,307; Dec. 12.
- Hopper, Ernest W. (See Suehy, A., jr., and Hopper.)
- Hopper, Ernest W., assignor to Hopper Cannery Machinery Co., Seattle, Wash. Can-cooling device. No. 1,420,841; June 27.
- Hoppes, Carlos D., assignor to The Faultless Rubber Company, Ashland, Ohio. Ball. No. 1,431,732; Oct. 10.
- Hopple, William, Newark, N. J., assignor to National Carbon Company, Inc., New York, N. Y. Reserve cell. No. 1,402,070; Jan. 3.
- Hopple, William, Newark, N. J., assignor to National Carbon Company, Inc., New York, N. Y. Reserve cell. No. 1,432,025; Oct. 17.
- Hopplin, William M., Sharon Hill, Pa. Crushing machine. No. 1,406,189; Feb. 14.
- Hopps, Carl W. (See Hopps, John J. and C. W.)
- Hopps, John J., Lawton, Okla., and C. W. Hopps, Westfield, N. J. Combined horn and return ball. No. 1,415,350; May 9.
- Hopmann, Charles H., St. Louis, Mo. Form for concrete columns. No. 1,430,376; Sept. 26.
- Hops, Harold T., Acampo, Calif. Oil gauge. No. 1,430,377; Sept. 26.
- Hopwood, Frank L., London, England, assignor to Submarine Signal Company, Boston, Mass. Submarine signaling. No. 1,440,360; Dec. 26.
- Hopwood, Frank L., Wood Green, London, England, assignor to Submarine Signal Company, Boston, Mass. Submarine signaling apparatus. No. 1,440,361; Dec. 26.
- Horak, Frank, assignor of one-half to M. Hirsch, Valparaiso, Ind. Key-operated lock. No. 1,403,472; Jan. 10.
- Horak, Otto, St. Louis, Mo. Electrically-operated car-coupling mechanism. No. 1,414,187; Apr. 25.
- Horan, George P., Rutland, Vt. Train-stop mechanism. No. 1,437,308; Nov. 28.
- Horat, Martin, assignor to the Firm Fritz Gegauf, Steckborn, Switzerland. Ornamental stitching and embroidery machine. No. 1,413,274; Apr. 18.
- Hordern, Alfred W., Birmingham, England. Press guard. No. 1,439,818; Dec. 26.
- Horelick, Samuel, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Transformer. No. 1,420,103; June 20.
- Horelick, Samuel, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Polyphase transformer. No. 1,425,091; Aug. 8.
- Hörlin, Mauritz I., Stockholm, Sweden. Manufacturing wainscots. No. 1,430,996; Oct. 3.
- Hormes, William T., Govans, assignor to S. Himmel, Baltimore, Md. Means of illustrating installations of mercantile equipment and the like. No. 1,404,613; Jan. 24.
- Horn, Albert, St. Louis, Mo. Apparatus for repairing and testing radiators. No. 1,419,260; June 13.
- Horn, Charles L., Jr., Philadelphia, Pa. Account-keeping device. No. 1,408,508; Mar. 7.
- Horn, Elisabeth, née Beling, legal heiress. (See Horn, Gustav.)
- Horn, Ellwood, Philadelphia, Pa. Article holder. No. 1,439,106; Dec. 19.
- Horn, Ernest H., assignor to Waterbury Clock Co., Waterbury, Conn. Spring click for timepieces. No. 1,416,407; May 16.
- Horn, Ernest H., assignor to Waterbury Clock Co., Waterbury, Conn. Mainspring arbor for timepieces. No. 1,435,642; Nov. 14.
- Horn, Guido, Weissensee-Berlin, Germany. Device for training pilots and observers in handling aeroplanes. No. 1,402,408; Jan. 3.
- Horn, Guido, Berlin-Weissensee, Germany. Milling machine. No. 1,406,866; Feb. 14.
- Horn, Guido, Weissensee-Berlin, Germany. Braiding machine. No. 1,409,297; Mar. 14.
- Horn, Guido, and E. Stöckman, Weissensee-Berlin, Germany. Braiding machine. No. 1,409,298; Mar. 14.
- Horn, Gustav, deceased, Braunschweig, Germany; E. Horn, née Beling, legal heiress. Retort for gas furnaces. No. 1,429,546; Sept. 19.
- Horn, Harold J., assignor to John A. Roebling's Sons Company, Trenton, N. J. Aeroplane stay and the like. No. 1,403,553; Jan. 17.
- Horn, Harold J., assignor to John A. Roebling's Sons Company, Trenton, N. J. Aeroplane stay and the like. No. 1,403,602; Jan. 17.
- Horn, Joe, Eureka, Utah. Rifle board. No. 1,419,052; June 6.
- Horn, John P., Lancaster, Pa. Furniture attachment. No. 1,430,997; Oct. 3.
- Horn, Joseph V., Douglassville, Pa. Coin indicating and checking mechanism. No. 1,407,541; Feb. 21.
- Horn, Max, Tower City, Pa. Clock. No. 1,420,549; June 20.
- Horn, Stephen S., Brooklyn, N. Y. Theatrical scenery. No. 1,432,463; Oct. 17.
- Horn, William H., & Brother, Incorporated. (See Willmott, James D., assignor.)
- Hornbeck, Harry C., San Bernardino, Calif. Inclinator. No. 1,426,645; Aug. 22.
- Hornbostel, Adolph H. C., assignor of one-fifth to R. W. Rodenburg, one-fifth to E. A. Rodenburg, one-fifth to H. P. Haessler, and one-fifth to J. F. Haessler, Deshler, Nebr. Computing device. No. 1,411,357; Apr. 4.
- Hornburg, Louis A., Omaha, Nebr. Bleeding valve. No. 1,430,507; Sept. 26.
- Hornby, Frank, assignor to Meccano Limited, Liverpool, England. Curved rack. No. 1,412,116; Apr. 11.
- Hornby, Frank, assignor to Meccano Limited, Liverpool, England. Eccentric. No. 1,412,117; Apr. 11.
- Horne, Alexander D., Glasgow, Scotland. Thermostatic control apparatus. No. 1,434,542; Nov. 7.
- Horne, Ellwood J., Womelsdorf, Pa. Means for supporting and operating tire-pressure gauges and the like. No. 1,427,389; Aug. 29.
- Horne, James. (See Dawson, A. T., and Horne.)
- Horne, Joseph F., Revere, Mass. Necktie and making up same. No. 1,435,006; Nov. 7.
- Horne, Lawrence W., Jersey City, N. J. Lamp guard. No. 1,432,026; Oct. 17.
- Horner, Boyd R., Bridgeton, N. J. Subfloor trap and screw cap therefor. No. 1,403,081; Jan. 10.
- Horner, Lorenzo B., Hammond, Ind. Door hanger. No. 1,402,612; Jan. 3.
- Horner, Oddie, Greenville, Ohio. Refrigerating mechanism. No. 1,436,445; Nov. 21.
- Horney, Jeffrey C., assignor to J. B. Carter, trustee, Dallas, Tex. Traffic signal. No. 1,413,915; Apr. 25.
- Horning, Fred L., Schuylkill Haven, Pa. Support for pressure-retaining valves. No. 1,431,662; Oct. 10.
- Horning, William L., Davenport, Iowa. Device for use in climbing poles. No. 1,419,563; June 13.
- Hornsby, Addie H., Omaha, Nebr. Doll. No. 1,417,915; May 30.
- Hornsby, Moses W., New York, N. Y., assignor to Southern Electrolyte Battery Company, Inc., New Orleans, La. Electric water heater. No. 1,429,735; Sept. 19.
- Hornstein, Emil, Vienna, Austria. Manufacture of slabs of compressed cork. No. 1,407,655; Feb. 21.
- Horras, Peter A., Chicago, Ill. Belt or other buckle. No. 1,414,697; May 2.
- Horrigan, John, and E. N. Walsh, Joliet, Ill. Railway-car construction. No. 1,403,323; Jan. 10.
- Horrocks, Walter E., Lakewood, Ohio. Machine for making beads. No. 1,415,566; May 9.
- Horschetzky, Louis, New York, N. Y. Resilient wheel. No. 1,416,408; May 16.
- Horsfall, Herbert, assignor to Salt's Textile & Manufacturing Company, Bridgeport, Conn. Display stand. No. 1,404,439; Jan. 24.
- Horsham, John F., Laurel Hill, N. Y. Thermostat. No. 1,418,928; June 6.
- Horspool, Francis L., Salt Lake City, Utah, assignor to W. C. Dillon, Fort Dodge, Iowa. Bolt lock for vault and safe doors and the like. No. 1,402,499; Jan. 3.
- Horst, Emil C., San Francisco, Calif. Separator. No. 1,408,199; Feb. 28.
- Horst, Emil C., San Francisco, Calif. Vine take-off. No. 1,430,653; Oct. 3.
- Horst, Heinz. (See Brune, H., and Horst.)

- Horst, Heinz, Dortmund, assignor to the Corporation of Gesellschaft für Maschinelle Druckentwässerung mit beschränkter Haftung, Werdlingen, Niederstein, Germany. Briquetting or drying press. No. 1,433,619; Oct. 31.
- Horst, Ludwig, Berlin-Wilmersdorf, Germany. Film gate. No. 1,437,895; Dec. 5.
- Horstkotte, Edward H., Schenectady, N. Y., assignor to General Electric Company. Electric furnace. No. 1,427,814; Sept. 5.
- Horstkotte, Garry A., assignor to Abbott, Incorporated, Bend, Oreg. Radiator funnel. No. 1,420,039; June 20.
- Horstmann, Frederick W. (See Horstmann, Henry J., and F. W.)
- Horstmann, Henry J., Newark, and F. W. Horstmann, Kearny, N. J. Indicating caliper. No. 1,436,656; Nov. 28.
- Hort, Hermann, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Arrangement for the determination of the direction of the axis of rotation of a body. No. 1,434,209; Oct. 31.
- Hort, Hermann, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the Ruhr, Germany. Measuring device. No. 1,438,827; Dec. 12.
- Horton, Albert J., White Plains, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Battery-charging apparatus. No. 1,433,455; Oct. 24.
- Horton, Albert J., White Plains, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor controller. No. 1,439,892; Dec. 26.
- Horton, Albert J., White Plains, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Battery-charging apparatus. No. 1,439,893; Dec. 26.
- Horton, Allen A., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding machine. No. 1,415,174; May 9.
- Horton, Benjamin E., Syracuse, N. Y. Automobile headlight. No. 1,432,395; Oct. 17.
- Horton, Bryson D., Detroit, Mich. Electrical instrument board. No. 1,405,133; Jan. 31.
- Horton, Bryson D., Detroit, Mich. Electrical switch. No. 1,407,416; Feb. 21.
- Horton, Bryson D., Detroit, Mich. Electrical switch and interlocking casing. No. 1,412,242; Apr. 11.
- Horton, Bryson D., Detroit, Mich. Electrical switch and interlocking casing. No. 1,412,467; Apr. 11.
- Horton, Bryson D., Detroit, Mich. Electrical switch and interlocking casing. No. 1,436,622; Nov. 21.
- Horton, Charles, Ridgefield Park, N. J. Framing apparatus. No. 1,418,570; June 6.
- Horton, Charles, Brooklyn, N. Y., assignor to P. E. Ginn, Boston, Mass. Machine for making paper boxes. No. 1,430,232; Sept. 26.
- Horton, Charles, Brooklyn, assignor to Nicholas Power Company, New York, N. Y. Framing mechanism for moving-picture machines. No. 1,438,762; Dec. 12.
- Horton, Charles H., assignor to Perforated Pad Company, Woonsocket, R. I. Harness spreader. No. 1,413,734; Apr. 25.
- Horton, Charles M., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Sewing machine. No. 1,406,984; Feb. 21.
- Horton, George D., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing butyl alcohol and acetone by fermentation. No. 1,427,595; Aug. 29.
- Horton, George L., Caseville, Mich. Dirigible headlight. No. 1,428,436; Sept. 5.
- Horton, Harold H., New York, N. Y. Portable film-drying drum. No. 1,411,098; Mar. 28.
- Horton, Jessica, et al. (See Abell, Arthur, assignor.)
- Horton, Pleas E., Dallas, Tex. Agitator for malted-milk machines. No. 1,437,246; Nov. 28.
- Horton, Theodore, Albany, N. Y. Gas meter. No. 1,423,217; July 18.
- Horton, Theodore A., New York, N. Y. Casting apparatus. No. 1,418,078; May 30.
- Horvath, Alexander, Farrell, Pa. Waldemar breast watch. No. 1,431,802; Oct. 10.
- Horvath, Geza, Highland Park, Mich. Chain. No. 1,420,705; June 27.
- Horvath, Imre, Kenmore, Ohio. Safety and match box. No. 1,416,559; May 16.
- Horvath, Joseph, Cleveland, Ohio. Fountain scrubbing brush. No. 1,424,478; Aug. 1.
- Horvath, Jozseph, South Bethlehem, Pa. Combined milk-bottle receptacle and mail box. No. 1,417,382; May 23.
- Horvath, Kalman. (See Ardo, Joseph, assignor.)
- Horvitz, Aaron, Chicago, Ill. Burglar alarm and protector. No. 1,404,295; Jan. 24.
- Horwitt, Paul H., and L. La Veck, Brooklyn, N. Y. Paper napkin. No. 1,430,654; Oct. 3.
- Horwitt, Paul H., assignor to Simplex Paper Accessories Co., Brooklyn, N. Y. Dispensing apparatus. No. 1,434,057; Oct. 31.
- Horwitz, Adolphe, Detroit, Mich. Ice-shaving machine. No. 1,432,186; Oct. 17.
- Horwitz, Jacob, Chicago, Ill. Filing binder and binder clip. No. 1,431,306; Oct. 10.
- Hosceit, William J., Chicago, Ill. Car-door-operating mechanism. No. 1,430,378; Sept. 26.
- Hosceit, William J., assignor to Rodger Ballast Car Co., Chicago, Ill. Convertible car. No. 1,402,424; Jan. 3.
- Hosceit, William J., assignor to National Dump Car Company, Chicago, Ill. Railway-car construction. No. 1,411,275; Apr. 4.
- Hosch, Annie M., administratrix. (See Hosch, W. E., and Turner.)
- Hosch, Annie M., administratrix. (See Hosch, Walter E.)
- Hosch, Greene C., and G. B. Kyle, assignors to The Measuregraph Company, St. Louis, Mo. Cloth-measuring and cost-computing machine. No. 1,421,943; July 4.
- Hosch, Greene C., St. Louis, Mo., and A. C. Owen, New York, N. Y., assignors to The Measuregraph Company, St. Louis, Mo. Spring-regulating device for presser rollers. No. 1,428,372; Sept. 5.
- Hosch Mechanisms Corporation. (See Hosch, Walter E., assignor.)
- Hosch, Walter E., assignor to The Measuregraph Company, St. Louis, Mo. Measuring machine. No. 1,403,164; Jan. 10.
- Hosch, Walter E., assignor to Hosch Mechanisms Corporation, St. Louis, Mo. Machine for integrating sheet material. No. 1,404,026; Jan. 17.
- Hosch, Walter E., deceased, St. Louis; A. M. Hosch, administratrix, assignor to The Measuregraph Company, St. Louis, Mo. Totalizing mechanism. No. 1,409,547; Mar. 14.
- Hosch, Walter E., deceased; A. M. Hosch, administratrix, assignor to Measuregraph Company, St. Louis, Mo. Cloth-measuring and computing machine. No. 1,434,998; Nov. 7.
- Hosch, Walter E., deceased, by A. M. Hosch, administratrix, and D. Turner, assignors to Measuregraph Company, St. Louis, Mo. Cloth-measuring or computing machine. No. 1,434,999; Nov. 7.
- Hose, Henry G., Brooklyn, N. Y. Butt-end-interlocking composition shingle. No. 1,402,361; Jan. 3.
- Hose, Henry G., Brooklyn, N. Y. Butt-end interlocking composition shingle. No. 1,415,175; May 9.
- Hosford, William F., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for brazing thin metal parts. No. 1,435,470; Nov. 14.
- Hosking, Richard T., Saginaw, Mich. Rewind device for multiple-process printing presses. No. 1,414,809; May 2.
- Hosking, Richard T., Saginaw, Mich., assignor to Shakeproof Screw & Nut Lock Company, Chicago, Ill. Nut lock. No. 1,419,564; June 13.
- Hosking, William C. S. (See McEwen, William, assignor.)
- Hoskins, Thomas M., Evansville, Ind. Auto signal. No. 1,403,782; Jan. 17.
- Hoskins, Thomas M., assignor to one-half to H. H. Wessling, Evansville, Ind. Workman's tack holder. No. 1,435,896; Nov. 14.
- Hoskins, William, Chicago, Ill. Paper filler. No. 1,424,306; Aug. 1.
- Hoskins, William, Chicago, Ill. Water-resistant paper and making same. No. 1,430,998; Oct. 3.
- Hosman, David F., Scottsbluff, Nebr. Ice-cream base and making same. No. 1,440,011; Dec. 26.
- Hosmer, Chester C., and C. H. Wines, Huntington Beach, Calif. Rotary drill-pipe slip. No. 1,414,951; May 2.
- Hosmer, Edward E., New York, N. Y. Shoe construction. No. 1,417,170; May 23.
- Hosmer, John E., Silverton, Oreg. Gravity walking hand cultivator. No. 1,411,435; Apr. 4.
- Hossfeld, Harry E. (See Rose, D. E., and Hossfeld.)
- Hossfeld, Paul, Bad Harzburg, Germany. Ventilating-hood-lifting device. No. 1,415,567; May 9.
- Hostettler, Charles N. (See Wunderlick, Jay E., assignor.)
- Hostetter, Frederick, assignor to one-half to G. Petterson, Brooklyn, N. Y. Egg protector. No. 1,419,905; June 13.
- Hostetter, Theodore, Toledo, Ohio. Automatic casket sealing. No. 1,410,757; Mar. 28.
- Hostettler, Leigh W., Tarentum, Pa., assignor to Allegheny Steel Company. Journal-box lid. No. 1,425,092; Aug. 8.
- Hostettler, Leigh W., Tarentum, Pa., assignor to Allegheny Steel Company, Brackenridge, Pa. Making journal box lids. No. 1,425,093; Aug. 8.
- Hostler, John C., Altoona, Pa. Poultry feeder. No. 1,425,013; Aug. 8.
- Hot Lunch Box Co., The. (See Heimerl, Julius E., assignor.)
- Hot Prong Carburizer Company, The. (See Mark, F. H., and McConochy, assignors.)
- Hotaling, George, and W. D. Coolidge, Schenectady, N. Y., assignors to General Electric Company. X-ray apparatus. No. 1,430,550; Oct. 3.
- Hotaling, Omar J., East Orange, N. J. Vending machine. No. 1,414,085; Apr. 25.
- Hotchkiss, Donald V., Helensburgh, Scotland. Centrifugal pump, more particularly those employed in hydraulic propulsion. No. 1,404,525; Jan. 24.
- Hotchkiss, E. H., Company, The. (See Muth, John, assignor.)
- Hotchner, Joseph, San Francisco, Calif. Illuminated sign. No. 1,429,077; Sept. 12.
- Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Pouring spout for containers. No. 1,430,552; Oct. 3.
- Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Container. No. 1,435,394; Nov. 14.

Alphabetical list of patentees—Continued.

- Hoting, Hans C., Neuss, Germany, assignor to Troy Laundry Machinery Co. Ltd., Chicago, Ill. Pressing machine. No. 1,416,829; May 23.
- Hottenroth, Frederick W., Park Hill, N. Y. Traffic-signal-ing means for vehicles. No. 1,403,082; Jan. 10.
- Hottman, Charles W., assignor to C. Offenhauser, Philadelphia, Pa. Cutting and mixing machine. No. 1,417,065; May 23.
- Hottmann, Charles W., Philadelphia, Pa. Cutting machine. No. 1,416,204; May 16.
- Hottmann, Charles W., Jr., Sandusky, Ohio. Mixer. No. 1,406,457; Feb. 14.
- Hottmann, Charles W., Jr., assignor to The Brown Clutch Co., Sandusky, Ohio. Washing machine. No. 1,414,468; May 2.
- Hotto, Louis, Prairie du Pont, Ill. Shock-absorbing spring suspension device. No. 1,439,626; Dec. 19.
- Hofz, Jacob, Arcadia, Wis. Stall floor. No. 1,402,613; Jan. 3.
- Houben, Robert, Uccle, Belgium. Concrete for road covering. No. 1,411,028; Mar. 28.
- Houchens, Leonidas R., Washington, D. C. Lawn swing. No. 1,416,560; May 16.
- Houchin, Alfred W., assignor to Shockless Electric Corporation, Kirkwood, N. J. Armature winding. No. 1,415,875; May 16.
- Houck, Harry W., New York, N. Y. Method and apparatus for selectively transferring electrical oscillatory energy. No. 1,438,828; Dec. 12.
- Houck, William A., Reading, Pa. Moistening means for cop mountings. No. 1,419,734; June 13.
- Houdaille, Maurice, Levallois-Perret, France. Gas-discharging valve for hydraulic apparatus. No. 1,402,610; Jan. 3.
- Houdaille, Maurice, Levallois-Perret, France. Cantilever spring. No. 1,408,300; Feb. 28.
- Hough, Azel C., Janesville, Wis. Shade appliance. No. 1,414,020; Apr. 25.
- Hough, Azel C., Janesville, Wis. Shade appliance. No. 1,414,021; Apr. 25.
- Hough, Clarence E., Bowen, Ill. Milk-bottle carrier. No. 1,422,574; July 11.
- Hough, Clayton, Atco, N. J. Spark plug. No. 1,413,478; Apr. 18.
- Hough, Edward S., San Francisco, Calif. Draft system for mechanical oil burners. No. 1,432,334; Oct. 17.
- Hough, Frank W., Washington, D. C. System for the identification of vehicles of the motor-driven type. No. 1,429,347; Sept. 19.
- Hough, Howard M., executor. (See Hough, William B.)
- Hough, Samuel, Atco, assignor of one-fourth to R. P. Le-vick, Berlin, N. J., and one-fourth to C. J. Richter, Col-lingswood, N. J. Automatic filler for grease cups. No. 1,422,978; July 18.
- Hough, William B., deceased, Chicago, Ill.; H. M. Hough, executor. Reinforced concrete construction. No. 1,439,737; Dec. 26.
- Houghton, Carl R., assignor to The Connersville Blower Co., Connersville, Ind. Gas-exhauster governor. No. 1,440,297; Dec. 26.
- Houghton, Carley E. (See Chancellor, C. A., McMannama, and Houghton.)
- Houghton, John M., Worcester, Mass., assignor to Hough-ton Manufacturing Company. Doffing-rail lock for spin-ning frames. No. 1,411,276; Apr. 4.
- Houghton, John W., and T. W. Harvey, assignors to Steel Products Co., Huntington, W. Va. Loading-machine at-tachment. No. 1,433,012; Oct. 24.
- Houghton, Lewis T., Worcester, Mass. Yarn-tension de-vice. No. 1,436,103; Nov. 21.
- Houghton Manufacturing Company. (See Houghton, John M., assignor.)
- Houghton, Myrtle B., Portland, Oreg. Toy. No. 1,421,234; June 27.
- Houghton, Willard, Seattle, Wash. Sheave block. No. 1,406,560; Feb. 14.
- Houle, Altheod J., and E. H. Humble, Los Angeles, Calif. Window-sash holder. No. 1,409,858; Mar. 14.
- Houle, Edmond, Danvers, Mass. Stanchion. No. 1,409,859; Mar. 14.
- House, Albert B., Brooklyn, assignor to International Mo-tor Company, New York, N. Y. Dual water control for fire-engine pumps. No. 1,427,899; Sept. 5.
- House, Charles L., San Francisco, Calif. Truck body. No. 1,418,929; June 6.
- House, Ernest W., Birmingham, Ala. Vehicle signal. No. 1,419,854; June 13.
- House, Everett J., Cleveland, Ohio. Savings and insur-ance account book. No. 1,423,114; July 18.
- House, Henry A., Bridgeport, Conn., assignor to Public Service Cup Co., Brooklyn, N. Y. Drinking vessel and making same. No. 1,417,916; May 30.
- House, Herbert E., Pasadena, Calif. Toy. No. 1,416,029; May 16.
- House, Herbert E., Pasadena, assignor to C. S. and W. T. Potter, Los Angeles, Calif. Kaleidoscope. No. 1,414,469; May 2.
- House, James A., Dyer, Tenn. Steering gear. No. 1,430,448; Sept. 26.
- House, Thomas M., Richmond, Va. Hanger support for wardrobe trunks. No. 1,416,030; May 16.
- House, Thomas M., and H. R. McConnell, Richmond, as-signors to Seward Trunk and Bag Company, Peters-burg, Va. Trunk-riveting machine. No. 1,410,182; Mar. 21.
- House, Thomas M., and H. R. McConnell, Richmond, as-signor to Seward Trunk and Bag Company, Petersburg, Va. Trunk-riveting machine. No. 1,430,447; Sept. 26.
- Household Utilities Corporation. (See Heideman, Fred J., assignor.)
- Householder, Charles L., Washington, D. C. Display stand for discharge certificates. No. 1,418,261; May 30.
- Houseman, Christian P., York, Pa. Piston. No. 1,423,425; July 18.
- Houseman, George A., Shreveport, La. Radiator core. No. 1,433,374; Oct. 24.
- Houser, Arthur M., Chicago, Ill., and W. B. Morris, Phila-delphia, Pa., assignors to Crane Company, Chicago, Ill. Flushing apparatus. No. 1,408,883; Mar. 7.
- Houser, Lawrence L., Mishawaka, Ind. Multiple fountain pen. No. 1,402,164; Jan. 3.
- Houser, William O., Lincoln, Ill. Dental film holder. No. 1,405,217; Jan. 31.
- Housh, Frank E., Winchester, N. H. Sheet for loose-leaf books. No. 1,408,509; Mar. 7.
- Housholder, Albert, Florence, Colo. Wax-sweating appa-ratus. No. 1,408,200; Feb. 28.
- Houskeeper, William G., assignor to Western Electric Company, Incorporated, New York, N. Y. Method and means for forming and winding filamentary material. No. 1,435,301; Nov. 14.
- Housser, Levi, Claremont, Ontario, Canada. Draft rig-ging. No. 1,432,066; Oct. 17.
- Houston, Aubrey, Auckland, New Zealand. Feeding mech-anism for fabric-measuring machines. No. 1,437,658; Dec. 5.
- Houston, Aubrey, Christchurch, and H. P. Stephenson, Ashburton, New Zealand. Locking device. No. 1,418,571; June 6.
- Houston, Edward R., Belleville, Ill. Ironing table. No. 1,406,386; Feb. 14.
- Houston, Harold A., Wilkinsburg, Pa., assignor to West-inghouse Electric & Manufacturing Company. Gear case for jackshafts. No. 1,428,846; Sept. 12.
- Houston Stanwood & Gamble Company, The. (See Fahr-lander, Harry W., assignor.)
- Houston, William, Winnemucca, Nev., assignor of one-third to W. P. Stephenson and one-third to G. F. Rose, Genoa, Nebr. Rail clamp. No. 1,410,678; Mar. 28.
- Houston, William L., Carrsville, Ky. Automatic wagon brake. No. 1,407,542; Feb. 21.
- Hovanec, Valent, Ambridge, Pa. Tool holder. No. 1,422,058; July 4.
- Hovenden, Charles S. (See Howerton, O. N., and Star-buck, assignors.)
- Hover, Lee D., Chicago, Ill. Embroidery needle. No. 1,421,479; July 4.
- Hover, Lee D., Chicago, Ill. Embroidery needle. No. 1,428,960; Sept. 12.
- Hovey, Otis E., New York, N. Y. Continuous girder turntable. No. 1,417,917; May 30.
- Hovey, Otis E., New York, N. Y. Bearing. No. 1,436,250; Nov. 21.
- Howard, Allen L., Vankleek Hill, Ontario, Canada. Water-heating apparatus. No. 1,432,335; Oct. 17.
- Howard, Benjamin, Hanwell, assignor to The London General Omnibus Company, Limited, Westminster, Lon-don, England. Wheel guard for vehicles. No. 1,412,524; Apr. 11.
- Howard, Bloomfield H. (See Turner, E. J., and Howard.)
- Howard, Bloomfield H., Washington, D. C., and E. J. Turner, Pittsburgh, Pa. Feeder for ingot molds. No. 1,431,803; Oct. 10.
- Howard, Bloomfield H., Washington, D. C., and E. J. Turner, Pittsburgh, Pa. Ingot mold and feeder. No. 1,431,804; Oct. 10.
- Howard, Charles H., Saugus, assignor to Paper Products Machine Company, Boston, Mass. Bag-filling machine. No. 1,425,481; Aug. 8.
- Howard, Clarence, Hutchinson, Kans. Burial vault. No. 1,428,373; Sept. 5.
- Howard, Dudley B., Washington, D. C. Aircraft. No. 1,419,261; June 13.
- Howard, Earl H., assignor to Gilfillan Bros. Smelting & Refining Company, Los Angeles, Calif. Valve grinder. No. 1,435,847; Nov. 14.
- Howard, Edward G., Cincinnati, Ohio. Rubber garter. No. 1,421,690; July 4.
- Howard, Eldon C., assignor of one-half to J. T. Hamer, The Plains, Ohio. Mechanical starter for gas motors or internal-combustion engines. No. 1,406,018; Feb. 7.
- Howard, Emmett M., Baltimore, Md., assignor, by mesne assignments, to F. F. Slocumb, Philadelphia, Pa. Phonographic-disk-record ejector. No. 1,425,771; Aug. 15.
- Howard, Frank A., Swissvale Borough, Pa. Apparatus for manufacturing glass insulators for spark plugs. No. 1,405,034; Jan. 31.
- Howard, Frank A., Westfield, and J. M. Jennings, Eliz-abeth, assignors to Standard Oil Company, Bayonne, N. J. Prevention of evaporation. No. 1,415,352; May 9.

Alphabetical list of patentees—Continued.

- Howard, Frank A., and C. I. Robinson, Westfield, and J. M. Jennings, Elizabeth, N. J., assignors to Standard Oil Company, Bayonne, N. J. Prevention of evaporation of stored liquids. No. 1,415,351; May 9.
- Howard, Frank E., assignor to James L. Howard & Co., Hartford, Conn. Antifriction hinge. No. 1,435,907; Nov. 14.
- Howard, Frank M., et al. (See Dungan, John E., assignor.)
- Howard, Frank W. (See Cannon, G. B., jr., and Howard.)
- Howard, George, Laverne, Okla., assignor of three-fourths to E. H. George, H. N. Arnold, O. Schopp, and C. C. Arnold, Buffalo, Okla. Storage-battery solution. No. 1,437,343; Nov. 28.
- Howard, George M. (See Groce, G. H., and Howard.)
- Howard, Guy C., Tacoma, Wash., assignor to American Smelting & Refining Company. Enriching metallurgical gases containing sulphur dioxide. No. 1,417,066; May 23.
- Howard, Guy C., Tacoma, Wash., assignor to American Smelting & Refining Co. Making sulphur from sulphur dioxide. No. 1,417,068; May 23.
- Howard, Hal, assignor to Harry N. Reynolds, Walkersville, Ontario, Canada, and Trevillie O. Martin, Jackson, Tenn. Washout plug. No. 1,408,944; Mar. 7.
- Howard, Harry G., Greenwich, N. Y. Tractor wheel. No. 1,424,098; July 25.
- Howard, Hasting P., assignor of one-half to A. S. Cook, jr., Memphis, Tenn. Store. No. 1,435,395; Nov. 14.
- Howard, Henry, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Preparing aluminum-chloride crystals. No. 1,430,449; Sept. 26.
- Howard, Henry, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Production of hydrogen sulphide. No. 1,435,471; Nov. 14.
- Howard, Henry, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Purification of hydrofluoric acid. No. 1,439,960; Dec. 26.
- Howard, Henry J. M., Washington, D. C. Box-strap tightener. No. 1,402,232; Jan. 3.
- Howard, Henry J. M., Washington, D. C. Fire-protection apparatus. No. 1,413,275; Apr. 18.
- Howard, Horace J., Bristol, England. Valve mechanism for internal-combustion engines. No. 1,439,894; Dec. 26.
- Howard, James L., & Co. (See Howard, Frank E., assignor.)
- Howard, James L., assignor to The Travelers Insurance Company, Hartford, Conn. Business form. No. 1,406,561; Feb. 14.
- Howard, John A., Sr., West New Brighton, assignor of one-half to S. T. Shaw, Jr., New York, N. Y. Sectional boiler. No. 1,411,101; Mar. 28.
- Howard, John A., Sr., West New Brighton, N. Y., assignor to Camward Engineering Co., Inc. Electric sadiron. No. 1,428,233; Sept. 5.
- Howard, Joseph O. (See Hughey, George W., assignor.)
- Howard, Joseph O., Detroit, Mich. Toy aeroplane. No. 1,420,193; June 20.
- Howard, Joseph O., Evanston, Ill. Toy aeroplane. No. 1,420,194; June 20.
- Howard, Karl S. (See Westlake, C. T., and Howard.)
- Howard, Karl S., St. Louis, Mo. Pouring ladle for molten metal. No. 1,439,522; Dec. 19.
- Howard, Karl S., assignor to Commonwealth Steel Company, St. Louis, Mo. Locomotive-crane underframe. No. 1,409,378; Mar. 14.
- Howard, Karl S., assignor to Commonwealth Steel Company, St. Louis, Mo. Sand feeder. No. 1,423,854; July 25.
- Howard, Lemuel F., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Indication means for light signals. No. 1,429,141; No. 1,429,141; Sept. 12.
- Howard, Lorenzo G., Providence, R. I. Spark plug. No. 1,415,447; May 9.
- Howard, Roscoe A., Oldtown, Me. Folder for cloth samples. No. 1,419,053; June 3.
- Howard, Russell B., Windham, Vt. Replaying device for talking machines. No. 1,430,450; Sept. 26.
- Howard, Styles T., Tallulah, La. Density tester. No. 1,437,058; Nov. 28.
- Howard, Thomas. (See Hering, Fredrick N., assignor.)
- Howard, Thomas, New York, N. Y. Saw-blade holder. No. 1,410,310; Mar. 21.
- Howard, Travis H. B., Como, Miss. Lamp extinguisher. No. 1,422,059; July 4.
- Howard, William D. M., Boston, Mass. Fuel-mixing device. No. 1,413,227; Apr. 18.
- Howard, William H., et al. (See Taylor, Burt E., assignor.)
- Howard, William H., Salt Lake City, Utah, assignor to American Smelting and Refining Company, New York, N. Y. Discharging smelter gases. No. 1,422,575; July 11.
- Howard, William R., Estherville, Iowa. Beet harvester. No. 1,436,502; Nov. 21.
- Howard, William T., Oakland, Calif. Quick-acting nut. No. 1,404,296; Jan. 24.
- Howarth, Harry A. S. (See Kingsbury, A., and Howarth.)
- Howarth, Mark, Padgate, Warrington, England. Means for drawing wire and rod. No. 1,406,867; Feb. 14.
- Howarth, Mark, Padgate, Warrington, England. Manufacture of nails and the like. No. 1,418,186; May 30.
- Howcott, Harley A. W., New Orleans, La. Round-bale cotton press. No. 1,418,441; June 6.
- Howden, George W., Pompey, N. Y. Automatic release coupling. No. 1,415,646; May 9.
- Howden, James & Company. (See Hume, Crawford W., assignor.)
- Howden, James, & Company, Limited. (See Hume, James H., assignor.)
- Howe, Charles J., Detroit, Mich. Pivot. No. 1,429,881; Sept. 19.
- Howe, David R., Ashland, Me. Peavy. No. 1,414,878; May 2.
- Howe, Edward W., Toledo, Ohio. Brush-block-boring machine. No. 1,420,104; June 20.
- Howe, Edwin A., Bancroft, Iowa. Automobile jack. No. 1,426,068; Aug. 15.
- Howe, Ernest G. (See Stevens, H. R., Rockwell, and Howe.)
- Howe, Ernest G., et al., trustees. (See Stevens, H. R., Rockwell, and Howe, assignors.)
- Howe, Frank D., Kent, Ohio. Spring suspension. No. 1,436,803; Nov. 28.
- Howe, Frank D., Cuyahoga Falls, Ohio, assignor, by mesne assignments, to International Harvester Company. Magneto drive. No. 1,413,479; Apr. 18.
- Howe, James F., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Suspension-bridge cable. No. 1,427,471; Aug. 29.
- Howe, Joseph B., Worcester, assignor to George S. Harwood & Son, Boston, Mass. Clutch. No. 1,424,105; Aug. 1.
- Howe, Joseph B., Worcester, assignor to George S. Harwood & Son, Boston, Mass. Scale for card feeders. No. 1,434,053; Oct. 31.
- Howe, Lucien, Buffalo, N. Y. Bedstead. No. 1,416,297; May 16.
- Howe, Robert, Newcastle-upon-Tyne, England. Internal combustion engine. No. 1,438,915; Dec. 12.
- Howe, Thomas C., Louisville, Ky. Display device. No. 1,425,259; Aug. 8.
- Howe, Thomas H., Darlington, Wis. Dental plastic filling compressor. No. 1,410,311; Mar. 21.
- Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Automatic train-control system. No. 1,405,376; Jan. 31.
- Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Automatic train-control system. No. 1,405,377; Jan. 31.
- Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Automatic train-control system. No. 1,407,065; Feb. 21.
- Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Automatic train-control system. No. 1,411,571; Apr. 4.
- Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Automatic train-control system. No. 1,421,005; June 27.
- Howell, Albert S., assignor to Bell & Howell Company, Chicago, Ill. Motion-picture camera and tripod. No. 1,417,523; May 30.
- Howell, Albert S., assignor to Bell and Howell Company, Chicago, Ill. Film-feeding mechanism for motion-picture cameras and the like. No. 1,417,524; May 30.
- Howell, Albert S., assignor to Bell and Howell Company, Chicago, Ill. Actuating mechanism for motion-picture cameras and the like. No. 1,417,525; May 30.
- Howell, Albert S., assignor to Bell and Howell Company, Chicago, Ill. Lens mount for cameras. No. 1,417,526; May 30.
- Howell, Albert S., assignor to Bell & Howell Company, Chicago, Ill. Focusing device for camera lenses. No. 1,417,527; May 30.
- Howell, Arthur E., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,416,031; May 16.
- Howell, Chester A., assignor of one-third to J. J. Swift, Des Moines, Iowa. Condenser for automobile radiators. No. 1,439,242; Dec. 19.
- Howell, Clement J., and L. B. Odson, Spokane, Wash. Curtain rod. No. 1,405,416; Dec. 7.
- Howell, Edward B., Butte, Mont. Block mold. No. 1,421,006; June 27.
- Howell, F. M., & Co. (See Allen, Harry B., assignor.)
- Howell, Fred B., Schenectady, N. Y., assignor to General Electric Company. Recorder. No. 1,438,829; Dec. 12.
- Howell, Harry H., assignor of one-half to Eclipse Mfg. Co., Hope, Ark. Tank. No. 1,434,897; Nov. 7.
- Howell, Henry F., Divide, W. Va. Ratchet drill. No. 1,403,603; Jan. 17.
- Howell, Henry M., assignor of 50 per cent to J. E. Dougherty, Monroe, La. Window cleaner or wiper. No. 1,408,945; Mar. 7.
- Howell, Henry M., assignor to Instant Changeable Tire Rim Company, Inc., Monroe, La. Demountable rim. No. 1,433,279; Oct. 24.
- Howell, Henry M., assignor to Instant Changeable Tire Rim Company, Inc., Monroe, La. Demountable rim. No. 1,437,105; Nov. 28.
- Howell, Henry W., Butte, Mont. Building wall. No. 1,421,007; June 27.

Alphabetical list of patentees—Continued.

- Howell, John, Manchester, and A. W. Brown, assignors to W. & T. Avery, Limited, Birmingham, England. Means for gauging the distance between the knife-edges or pivots of levers. No. 1,405,218; Jan. 31.
- Howell, John B. (See Ogden, J. E., and Howell.)
- Howell, William C., and C. B. Rader, Denver, Colo. Pressed-steel automobile brake-shoe construction. No. 1,417,069; May 23.
- Howerton, Oliver N., East Peoria, and E. Starbuck, Peoria, said Starbuck assignor of his entire right to C. S. Howenden, Peoria, Ill. Toy. No. 1,412,015; Apr. 4.
- Howerton, Oliver N., East Peoria, and E. Starbuck, Peoria, said Starbuck assignor of his entire right to C. S. Howenden, Peoria, Ill. Drum. No. 1,412,016; Apr. 4.
- Howes, George W., assignor to The Beckwith Company, Dowagiac, Mich. Gas stove. No. 1,410,183; Mar. 21.
- Howes, Horace W., Waltham, Mass. Commutator. No. 1,415,931; May 16.
- Howeth, George O., Morattico, Va. Transmission gear for automobiles. No. 1,423,426; July 18.
- Howg, Edwin M., Lennox, S. Dak. Latch for chains. No. 1,419,565; June 13.
- Howgate, Alfred, Keighley, England. Apparatus for use in annealing or otherwise treating metals. No. 1,427,390; Aug. 29.
- Howie, Kenneth, Philadelphia, assignor to Wildman Manufacturing Company, Norristown, Pa. Needle pressing means for knitting machines. No. 1,407,684; Feb. 21.
- Howie, Kenneth, Norristown, and W. O. Taylor, Limerick, assignors to Wildman Mfg. Co., Norristown, Pa. Cam mechanism for knitting machines. No. 1,424,725; Aug. 1.
- Howieson, Alida B. (See Howieson, John T., assignor.)
- Howieson, Alida B., administratrix. (See Howieson, John T.)
- Howieson, John T., deceased, Rochester, by A. B. Howieson, administratrix, assignor to A. B. Howieson, Flushing, N. Y. Computing mechanism. No. 1,405,589; Feb. 7.
- Howland, Casca T. (See Robinson, Frank T., assignor.)
- Howland, Chauncey W., Geneva, N. Y. Curve-measuring instrument. No. 1,430,738; Oct. 3.
- Howland, John W., Emmett, Idaho. Painting composition. No. 1,402,500; Jan. 3.
- Howland, Waldo A., Adams, Mass. Controller for automatic vacuum breakers. No. 1,422,444; July 11.
- Howland, Waldo A., Adams, Mass. Electrically-actuated means for operating vacuum-breaker valves. No. 1,435,396; Nov. 14.
- Howles, Fred, Manchester, England. Apparatus for spreading or distributing powder insecticides upon trees, plants, and the like. No. 1,411,498; Apr. 4.
- Howlett, John W. (See Gray, W. H., and Howlett.)
- Howlett, Lewis G., Bay City, Mich. Crane truck. No. 1,412,525; Apr. 11.
- Howley, Thomas H., et al. (See Yeagher, William A., jr., assignor.)
- Howorka, Ernest B. (See Baier, Frederick C., assignor.)
- Howson, Henry, assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Drier. No. 1,404,614; Jan. 24.
- Howson, John, Hamilton, Ontario, Canada. Furniture. No. 1,411,660; Apr. 4.
- Hoxie, Charles O., Rochester, N. Y. Dumping truck. No. 1,436,173; Nov. 21.
- Hoxie, George L., Upper Montclair, N. J. Process of and apparatus for cracking oils. No. 1,418,713; June 6.
- Hoy, Clarence A., assignor to Peerless Husker Company, Buffalo, N. Y. Mechanism for feeding elongated articles. No. 1,415,932; May 16.
- Hoy, Howard L., San Miguel, Calif. Convertible porch hammock and bedstead. No. 1,406,737; Feb. 14.
- Hoy, John F., and J. C. Whitesell, jr., assignors to Luster-Jordan Company, Norristown, Pa. Hand planer. No. 1,426,739; Aug. 22.
- Hoy, John F., and J. C. Whitesell, jr., assignors to The Luster-Jordan Company, Norristown, Pa. Hand planer. No. 1,432,860; Oct. 24.
- Hoyer, Edward J. (See Seror, Albert Z., assignor.)
- Hoyle, Henry P., Durham, England. Apparatus for washing coal or the like and for separating it from its impurities. No. 1,418,442; June 6.
- Hoyme, Christopher R., assignor to W. F. Savoye, New York, N. Y. Book. No. 1,405,134; Jan. 31.
- Hoyme, Christopher R., assignor to H. S. Borden, New York, N. Y. Article of manufacture. No. 1,432,249; Oct. 17.
- Hoynesite Explosives Company. (See Werner, Edward M., assignor.)
- Hoyt, Gabriel P. B., New York, N. Y. Hot-air regulator. No. 1,412,245; Apr. 11.
- Hoyt, George W., assignor to The Oakes Co., Indianapolis, Ind. Bearing. No. 1,403,959; Jan. 17.
- Hoyt, Hazen L., Jr. (See Bell, H. W., and Hoyt.)
- Hoyt, Jesse D., Los Angeles, Calif. Folding bedclothes hanger. No. 1,402,861; Jan. 10.
- Hoyt, Ray S., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Two-way impedance equalizer for transformers. No. 1,430,808; Oct. 3.
- Hoyt, Ray S., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Artificial line. No. 1,437,422; Dec. 5.
- Hoyt, Simes T., and J. S. Napier, assignors to Hawaiian Pineapple Company, Limited, Honolulu, Hawaii. Conveyor chain for canning apparatus. No. 1,418,572; June 6.
- Hoyt, Simes T., and J. S. Napier, assignors to Hawaiian Pineapple Company, Limited, Honolulu, Hawaii. Automatic gate for delivery chutes. No. 1,418,573; June 6.
- Hoyt, Simes T., and J. S. Napier, assignors to Hawaiian Pineapple Company, Limited, Honolulu, Hawaii. Canning apparatus. No. 1,418,574; June 6.
- Hoyt, Worthington, et al. (See Haber, Henry J., assignor.)
- Hoziak, Anthony, Nanticoke, Pa. Submarine-vessel attachment. No. 1,411,102; Mar. 28.
- Hrab, Michael, Syracuse, N. Y. Wire-cutting device for guns. No. 1,406,387; Feb. 14.
- Hren, Joseph, Kingston, N. Y. Trousers stretcher. No. 1,426,871; Aug. 22.
- Hreznuk, Iwan D., Boston, Mass. Tool handle. No. 1,431,805; Oct. 10.
- Humadko, Joseph A., New York, N. Y., assignor to The Motor Radiator & Manufacturing Corporation. Radiator. No. 1,413,163; Apr. 18.
- Hruby, Thomas J., Chicago, Ill. Traction-wheel lug. No. 1,406,562; Feb. 14.
- Hruska, Joseph, Milwaukee, Wis. Rail joint. No. 1,429,431; Sept. 19.
- Hruska, Joseph W., Mankato, Minn. Road drag. No. 1,406,019; Feb. 7.
- Hrynlewich, Dmitro, Livermore, Pa. Grain separator. No. 1,415,568; May 9.
- Hubachek, Rudolph, New Brunswick, N. J. Handle for dishes. No. 1,421,235; June 27.
- Hubard, Archibald B., Ogontz, Pa. Reinforced joint. No. 1,433,280; Oct. 24.
- Hubard, Archibald B., Ogontz, Pa. Reinforced joint. No. 1,433,281; Oct. 24.
- Hubard, Archibald B., Ogontz, Pa. Reinforced joint. No. 1,433,282; Oct. 24.
- Hubbard, Arthur O., Minneapolis, Minn. Folding box. No. 1,431,232; Oct. 10.
- Hubbard, Arthur O., Minneapolis, Minn. Clothes pounder. No. 1,434,012; Oct. 31.
- Hubbard, Burr J., Kokomo, Ind. Curtain-window construction. No. 1,414,470; May 2.
- Hubbard, Charles W., Weston, Mass. Twisting machine. No. 1,432,861; Oct. 24.
- Hubbard, Charles W., Weston, Mass. Apparatus for winding and twisting yarn. No. 1,433,723; Oct. 31.
- Hubbard, Frederick, East Berlin, Conn. Supporting foot for ladders. No. 1,436,804; Nov. 28.
- Hubbard, James R., Duncan, Okla. Breast-actuating mechanism for cotton gins. No. 1,424,021; July 25.
- Hubbard, Lloyd B., Plainview, Tex. Engine valve. No. 1,440,079; Dec. 26.
- Hubbard, Roscoe C., New York, N. Y. Film-drying nozzle. No. 1,407,543; Feb. 21.
- Hubbard, William, Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for concaving the breast edges of heels. No. 1,435,234; Nov. 14.
- Hubbard, William B., Smithboro, Ill. Automatic sash holder. No. 1,439,413; Dec. 19.
- Hubbell, Benjamin F., assignor to The Patent Button Company, Waterbury, Conn. Button. No. 1,434,491; Nov. 7.
- Hubbell, Harvey, Inc. (See Newton, William J., assignor.)
- Hubbell, Harvey, Bridgeport, Conn. Machine-controlling treadle. No. 1,409,000; Mar. 7.
- Hubbell, Harvey, Bridgeport, Conn. Combination mirror and light shield. No. 1,430,379; Sept. 26.
- Hubbell, John E., New York, N. Y., assignor of one-third to L. Wilputte, and two-thirds to A. A. Wilputte, New Rochelle, N. Y. Regenerative coke oven. No. 1,402,770; Jan. 10.
- Hubbell, Henry S., assignor to T. R. Almond Manufacturing Company, Ashburnham, Mass. Micrometer. No. 1,440,080; Dec. 26.
- Hubbell, Marian, Verona, N. J., assignor to W. B. Peirce, North Tonawanda, N. Y. Doll. No. 1,434,210; Oct. 31.
- Hubble, Alfred G., assignor to The National Safety Churn Company, Limited, London, England. Closure for receptacles. No. 1,414,569; May 2.
- Hubble, Joel W., Jacksonville, Ill. Tire-chain fastener. No. 1,418,149; May 30.
- Huber, Charles C., Rochester, N. Y. Garbage container. No. 1,427,472; Aug. 29.
- Huber, Frederick W., Riverside, Calif. Pectic substance and making the same. No. 1,410,920; Mar. 28.
- Huber, Frederick W., Riverside, Calif., assignor, by mesne assignments, to Western Precipitation Company. Treating salt mixtures. No. 1,435,524; Nov. 14.
- Huber, Herman J. H., Schenectady, N. Y., assignor to General Electric Company. Electric switching apparatus. No. 1,434,700; Nov. 7.
- Huber, John P., St. Louis, Mo., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-clamping device. No. 1,409,446; Mar. 14.
- Huber, William E., Chicago, Ill. Window lock. No. 1,426,294; Aug. 15.
- Huberty, Pierre F., assignor to Societe F. Huberty et Cie., Alfort, France. Obtaining milk vinegar. No. 1,410,809; Mar. 28.

- Hubin, Patrick J., Clifton, N. J. Valve. No. 1,412,746; Apr. 11.
- Hudd, Alfred E. (See Wion, G. H., and Hudd.) (Reissue.)
- Hudgens, Monroe, Cookeville, Tenn. Hand-steered, wheeled, convertible cultivator and planter. No. 1,418,262; May 30.
- Hudoba, Anthony, Struthers, Ohio. Self-moving cradle. No. 1,428,961; Sept. 12.
- Hudry, John, Hazleton, Pa. Velocipede. No. 1,434,701; Nov. 7.
- Hudson, Albert E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Method and machine for use in cutting sheet material. No. 1,403,497; Jan. 17.
- Hudson, Albert E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting machine. No. 1,431,955; Oct. 17.
- Hudson, Charles C., Atlanta, Ga. Spring mounting. No. 1,418,799; June 6.
- Hudson, Claude S., Hyattsville, Md. Making decolorizing carbons. No. 1,438,113; Dec. 5.
- Hudson, Elet W. (See Roy, E. D., and Hudson.)
- Hudson, Henrietta, New York, N. Y. Color photography. No. 1,431,663; Oct. 10.
- Hudson, James Jr., Clearfield, Pa. Horseshoe. No. 1,435,066; Nov. 7.
- Hudson, Leonidas S., Newark, N. J. Overhead carrier. No. 1,415,448; May 9.
- Hudson Manufacturing Company. (See Abendroth, Elmer T., assignor.)
- Hudson Manufacturing Company. (See Ackerman, Robert, assignor.)
- Hudson, Moulton L., Canton, N. C. Adjustable pulley. No. 1,405,590; Feb. 7.
- Hudson, Norman J. (See Vestal, Luther, assignor.)
- Hudson, Thomas E., et al. (See Balzer, V. W., and Bal-lou, assignors.)
- Hudson, William F. (See Gerosa, Anthony, assignor.)
- Hudson, William F., Philadelphia, Pa. Transmission casing. No. 1,425,094; Aug. 8.
- Hudson, William L., Siler City, N. C., assignor to Allen Morrison Sign Company, Incorporated, Lynchburg, Va. Wind-motor sign. No. 1,440,149; Dec. 26.
- Hudson, William W., Toronto, Ontario, Canada. Bucket elevator. No. 1,414,810; May 2.
- Hueber, Henry, assignor to T. B. Polk, Seattle, Wash. Window-cleaning device. No. 1,404,772; Jan. 31.
- Hueber, Henry, assignor of one-half to C. J. Cassutt, Seattle, Wash. Attachment for motor vehicles. No. 1,414,513; May 2.
- Hueber, Henry, assignor, by mesne assignments, to Polk-Hueber Company, Seattle, Wash. Power-operated wind-shield cleaner. No. 1,437,521; Dec. 5.
- Hueber, Paul J., Syracuse, N. Y. Concrete building form. No. 1,421,236; June 27.
- Huebner, Bleistein Patents Company. (See Huebner, William C., assignor.)
- Huebner, Gustav A., assignor to E. Goerner, Milwaukee, Wis. Necktie holder. No. 1,434,120; Oct. 31.
- Huebner, William C., assignor to Huebner-Bleistein Patents Co., Buffalo, N. Y. Holder for photographic printing plates. No. 1,413,406; Apr. 18.
- Huebner, William C., assignor to Huebner Bleistein Patents Company, Buffalo, N. Y. Photographic-printing apparatus. No. 1,414,280; Apr. 25.
- Huebner, William C., assignor to Huebner-Bleistein Patents Co., Buffalo, N. Y. Photographic-printing apparatus. No. 1,425,526; Aug. 15.
- Huebner, William C., assignor to Huebner-Bleistein Patents Company, Buffalo, N. Y. Photographic-printing apparatus. No. 1,431,664; Oct. 10.
- Huebsch, Frank J., San Francisco, Calif. Conveyer. No. 1,428,234; Sept. 5.
- Huebsch, Joseph, and R. Roost, assignors to Huebsch Manufacturing Company, Milwaukee, Wis. Timing and recording device for discharge valves. No. 1,408,884; Mar. 7.
- Huebsch Manufacturing Company. (See Huebsch, J., and Roost, assignors.)
- Hugel, William F., et al. (See Edwards, Van Every, assignor.)
- Huelster, William W., Grand Rapids, Mich. Signal device for motor vehicles. No. 1,403,498; Jan. 17.
- Huelster, William W., Grand Rapids, Mich. Signal device for motor vehicles. No. 1,403,499; Jan. 17.
- Huelves, Claudio G., Santa Clara, Cuba. Cutter. No. 1,407,417; Feb. 21.
- Huenefeld, Walter E., Cincinnati, Ohio. Oil burner. No. 1,402,425; Jan. 3.
- Huening, William T., assignor to P. J. Daemicke Company, Chicago, Ill. Refrigerator display case. No. 1,409,179; Mar. 14.
- Huesman, Henry H., Dayton, Ohio. Universal gauge. No. 1,433,820; Oct. 31.
- Huesmann, Richard. (See Grumpelt, Oskar F. A. E., assignor.)
- Huestis, Thomas B., Bristol, R. I., assignor to National India Rubber Company, Attachment for sewing machines. No. 1,435,924; Nov. 21.
- Huestis, Thomas B., Bristol, R. I., assignor to Revere Rubber Company, Feed mechanism. No. 1,437,059; Nov. 28.
- Huether, John R., Ruff, Wash. Emergency attachment for wheel hubs. No. 1,410,570; Mar. 28.
- Huetter, Andrew, assignor to The Allsteel Ridewell Tire and Rubber Company, Dayton, Ohio. Expandible core. No. 1,404,959; Jan. 31.
- Huetter, Andrew, assignor to The Allsteel Ridewell Tire and Rubber Company, Dayton, Ohio. Expandible core. No. 1,439,895; Dec. 26.
- Huff, Albert J. (See Dohner, B. E., and Huff.)
- Huff, Bert M., Highland Park, assignor to H. A. Arnold, Detroit, Mich. Toy wagon. No. 1,418,647; June 6.
- Huff, Charlie E., Dayton, Ohio. Combination lock. No. 1,403,783; Jan. 17.
- Huff, Daland & Company. (See Post, George B., assignor.)
- Huff, Edmund J., jr., Philadelphia, Pa., assignor to The S. S. White Dental Manufacturing Company. Tooth-counting card. No. 1,431,159; Oct. 10.
- Huff, Ernest L., Natrona, Pa. Corrosion-resistant conduit fitting. No. 1,428,374; Sept. 5.
- Huff, George R., Sasakwa, Okla., assignor of one-fourth to H. H. Diamond and one-fourth to C. L. Orr, both of Holdenville, Okla. Steam cylinder. No. 1,418,079; May 30.
- Huff, Leslie R., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Constant-volume regulator for turbocompressors. No. 1,411,701; Apr. 4.
- Huff, Leslie R., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Pressure regulator for turbocompressors. No. 1,415,647; May 9.
- Huff, Russell, assignor to Dodge Brothers, Detroit, Mich. Rear-axle housing. No. 1,403,500; Jan. 17.
- Huff, Russell, assignor to Dodge Brothers, Detroit, Mich. Rear-axle housing. No. 1,410,758; Mar. 28.
- Huff, Sidney, New York, N. Y. Rotary brush. No. 1,414,781; May 2.
- Huff, Wilbert J., assignor to The Koppers Company, Pittsburgh, Pa. Dehydration. No. 1,416,205; May 16.
- Huff, Wilbert J., assignor to The Koppers Company, Pittsburgh, Pa. Dehydration of pyridine. No. 1,416,206; May 16.
- Huffaker, Edward C. and R. M., Chuckey, Tenn. Aeroplane. No. 1,435,848; Nov. 14.
- Huffaker, Edward C. and R. M., Chuckey, Tenn. Aeroplane. No. 1,435,849; Nov. 14.
- Huffaker, Robert M. (See Huffaker, Edward C. and R. M.)
- Huffman, Charles C., assignor to Sunbeam Chemical Company, Chicago, Ill. Dark dye combined with soap and producing the same. No. 1,413,026; Apr. 18.
- Huffman, Mike, Des Moines, Iowa. Steam-boiler clean-out device. No. 1,410,312; Mar. 21.
- Huffman, Mike, Des Moines, Iowa. Steam-boiler clean-out device. No. 1,416,207; May 16.
- Huffman, Samuel C., Lincoln, Nebr. Storage file. No. 1,423,936; July 25.
- Huffstutter, James H., Kearney, Nebr. Fertilizer process and apparatus. No. 1,438,830; Dec. 12.
- Hufstедler, Laurence P., Tulsa, Okla. Attachment for pipe machines. No. 1,405,784; Feb. 7.
- Hug, Christian J., Highland, Ill. Subgrading machine. No. 1,421,237; June 27.
- Hug, Joseph E., assignor of one-half to C. S. Whidden, Indianapolis, Ind. Support for cold-air registers. No. 1,411,628; Apr. 4.
- Huggins, Benjamin H. (See Huggins, Charles G., assignor.)
- Huggins, Charles G., assignor of one-half to B. H. Huggins, Adrian, Mo. Stock feeder. No. 1,429,287; Sept. 19.
- Huggins, Claude M., and C. J. Cline, Newark, Ohio. Automatic-wheel attachment. No. 1,411,886; Apr. 4.
- Huggins, George C., Lynn, Mass., assignor to General Electric Company. Field-winding machine. No. 1,407,033; Feb. 21.
- Huggins, William B., Knox County, Ill. Clutch lock for motor vehicles. No. 1,412,246; Apr. 11.
- Hughes, Alfred E., and J. Dilworth, Stockport, England. Radiator tube. No. 1,412,056; Apr. 11.
- Hughes, Allen H., et al. (See Lewis, Robert W., assignor.)
- Hughes, Arthur, Los Angeles, Calif. Puttee trimmer. No. 1,437,309; Nov. 28.
- Hughes, Arthur, Hoopston, assignor to Sprague Canning Machinery Company, Chicago, Ill. Machine for grinding knives. No. 1,427,900; Sept. 5.
- Hughes, Arthur E., et al. (See Currie, Emerson, assignor.)
- Hughes, Arthur E., Hoopston, assignor to Sprague Canning Machinery Company, Chicago, Ill. Pulping machine. No. 1,433,724; Oct. 31.
- Hughes, Arthur S., Mansfield, Ohio. Baluster-railing construction. No. 1,416,957; May 23.
- Hughes, Benjamin I., jr., J. A. Dickey, and E. C. Catts, assignors to Lanham Cotton Cultivator Co., Atlanta, Ga. Cultivator. No. 1,431,806; Oct. 10.
- Hughes, Charles B., New Orleans, La. Medical appliance. No. 1,406,738; Feb. 14.
- Hughes, Emily B. (See Hughes, Frances T., and E. B.)
- Hughes, Frances T. and E. B., Berkeley, Calif. Article of manufacture. No. 1,439,243; Dec. 19.
- Hughes, Frank C. (See Carrico, Noel, assignor.)
- Hughes, Fred T., et al. (See Currie, Emerson, assignor.)
- Hughes, Frederick T., Los Angeles, Calif. Extension for brake levers. No. 1,409,447; Mar. 14.
- Hughes, Frederick T., Los Angeles, Calif. Extension for brake levers. No. 1,409,448; Mar. 14.
- Hughes, Garnet N., Picton, Ontario, Canada. Record holder for talking machines. No. 1,402,614; Jan. 3.

Alphabetical list of patentees—Continued.

- Hughes, George W., West Philadelphia, Pa. Pulley adapter. No. 1,422,360; July 11.
- Hughes, Harry C., Cincinnati, Ohio. Auxiliary steering device for automobiles. No. 1,434,543; Nov. 7.
- Hughes, Henry A., Vineland, and H. A., Jr., Haddon Heights, N. J. Preparing an improved sugar product. No. 1,402,615; Jan. 3.
- Hughes, Henry A., Jr. (See Hughes, Henry A. and H. A., Jr.)
- Hughes, Henry L., Co. (See Sherman, William T., assignor.)
- Hughes, Horace W., Houlton, Me. Roof ladder. No. 1,427,294; Aug. 29.
- Hughes, Howard R., Houston, Tex. Rotary-drill cutter. No. 1,412,003; Apr. 4.
- Hughes, Howard R., Houston, Tex. Earth-boring drill. No. 1,412,942; Apr. 18.
- Hughes, Howard R., Houston, Tex. Lubricator for roller drills. No. 1,439,896; Dec. 26.
- Hughes, James W., Wyncote, assignor to W. H. Stehle, Philadelphia, Pa. Piston ring. No. 1,438,763; Dec. 12.
- Hughes, John C., Longview, Tex. Exhibitor. No. 1,436,503; Nov. 21.
- Hughes, John C., Middletown, assignor to The Borden Company, New York, N. Y. Aerating liquescent material and apparatus in aid thereof. No. 1,411,103; Mar. 28.
- Hughes, John T., Casper, Wyo. Aeroplane control. No. 1,415,176; May 9.
- Hughes, Joseph J., Memphis, Tenn. Lantern construction. No. 1,426,295; Aug. 15.
- Hughes, Joseph O., Murphysboro, Ill. Knife. No. 1,434,388; Nov. 7.
- Hughes, Levi P., Hoboken, N. J. Printing press. No. 1,405,515; Feb. 7.
- Hughes, Levi P., Hoboken, N. J., assignor, by mesne assignments, to Hughes Machine Corporation, New York, N. Y. Multiform printing press. No. 1,405,513; Feb. 7.
- Hughes, Levi P., Hoboken, N. J., assignor to Hughes Machine Corporation, New York, N. Y. Sheet-registering device. No. 1,405,514; Feb. 7.
- Hughes Machine Corporation. (See Hughes, Levi P., assignor.)
- Hughes, Robert D., Lynchburg, Va. Tool for handling demountable rims. No. 1,414,879; May 2.
- Hughes, Robert R., Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Looper mechanism for sewing machines. No. 1,422,060; July 4.
- Hughes, Thomas M., Carlisle, Miss. Cultivator. No. 1,414,880; May 2.
- Hughes Tool Company. (See Childs, William L., assignor.)
- Hughes Tool Company. (See Wadsworth, Frank L. O., assignor.)
- Hughes, Tyre C., Tulsa, Okla. Vehicle wheel. No. 1,404,960; Jan. 31.
- Hughes, Walter S. (See Bowie, William T., assignor.)
- Hughes, William, Taunton, Mass. Safety seal for locks. No. 1,403,604; Jan. 17.
- Hughes, William, Meridian, Miss. Stump auger. No. 1,411,104; Mar. 28.
- Hughes, William A. (See Hall, A. Z., and Hughes.)
- Hughes, William C., New Haven, Conn. Clothes drier. No. 1,422,061; July 4.
- Hughes, William K., et al. (See Kelley, Benjamin F., assignor.)
- Hughey, George W., Springfield, Mo., assignor of one-half to J. O. Howard, Evanston, Ill. Toy. No. 1,426,646; Aug. 22.
- Hughey, Henry J., Jackman, Me. Animal trap. No. 1,424,307; Aug. 1.
- Hughey, Robert H., Greenwood, S. C. Attachment for spindle bearings. No. 1,424,646; Aug. 1.
- Hugro Manufacturing Company. (See Bauer, Gustavus A., assignor.)
- Huguelet, James B. (See Scudder, C. R., and Huguelet.)
- Hugus, P. G., et al. (See Balzer, V. W., and Ballou, assignors.)
- Huhn, Anton, Minneapolis, Minn. Apparatus for drying and sterilizing cereals. No. 1,426,385; Aug. 22.
- Huillard, Alphonse, Suresnes, France. Drying apparatus. No. 1,410,063; Mar. 21.
- Hulbert, Ansel C., San Francisco, Calif. Electric water heater. No. 1,427,596; Aug. 29.
- Hulbert, Harry, et al. (See Currie, Jasper J., assignor.)
- Hulbert, John L., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Milking-machine system. No. 1,407,034; Feb. 21.
- Hulburt Engineering Company Limited. (See Tutt, Montague W., assignor.)
- Hulder, Joseph P., New York, N. Y., assignor to The Unit Player Action Co. Tracking device for player pianos. No. 1,422,713; July 11.
- Hulder, Joseph P., New York, N. Y., assignor to The Unit Player Action Co. Pneumatic action for player pianos. No. 1,433,283; Oct. 24.
- Hulet, Walter S. (See Dahlheim, E. F., and Hulet.)
- Hulfish, David S., Toronto, Ontario, Canada. Automatic telephone system. No. 1,418,187; May 30.
- Hulfish, David S., Toronto, Ontario, Canada. Automatic telephone switch and system. No. 1,427,473; Aug. 29.
- Hulick, George O., East St. Louis, Ill. Surgical appliance. No. 1,426,740; Aug. 22.
- Hulit, John A., Chicago, Ill. Telegram holder. No. 1,424,907; Aug. 8.
- Hulit, John A., Chicago, Ill. Recording telegraph machine. No. 1,428,033; Sept. 5.
- Hull, Chester A., assignor to R. H. Chamberlain and T. A. Keyes, Peru, Ind. Handle-wrapping machine. No. 1,412,747; Apr. 11.
- Hull, Clarence E., Santa Barbara, Calif. Crank case for internal-combustion engines. No. 1,433,821; Oct. 31.
- Hull, Emma, et al. (See Martin, Charles H., assignor.)
- Hull, Horace, assignor of one-half to L. A. Bastin and one-half to J. H. Post, Denver, Colo. Cooker. No. 1,421,480; July 4.
- Hull, Matthew R., assignor to Rex Manufacturing Company, Connersville, Ind. Automobile top. No. 1,425,014; Aug. 8.
- Hull, Nathaniel D., Wichita, Kans., assignor, by mesne assignments, to National Pump Company, Owensboro, Ky. Liquid-measuring pump. No. 1,408,739; Mar. 7.
- Hull, Robert W., Hingham, Mass. Refractory material and making same. No. 1,418,648; June 6.
- Hull, William S., Jackson, Miss. Flying machine. No. 1,435,235; Nov. 14.
- Hull, William S., Jackson, Miss. Flying machine. No. 1,435,236; Nov. 14.
- Hullinger, Elma E., Springfield, Ohio. Cleansing composition. No. 1,418,800; June 6.
- Hulse, George C., San Jose, Calif. Photographic-printing machine. No. 1,435,850; Nov. 14.
- Hulse, George E., Newark, N. J., assignor to Safety Car Heating & Lighting Company. Axle-driven transmission mechanism. No. 1,428,693; Sept. 12.
- Hulse, George E., Newark, N. J., assignor to Safety Car Heating & Lighting Company. Electrical apparatus. No. 1,429,948; Sept. 26.
- Hulse, George E., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Belt connection. No. 1,430,553; Oct. 3.
- Hulse, George E., Newark, N. J., assignor to The Safety Car Heating & Lighting Company. System of electrical distribution. No. 1,437,247; Nov. 28.
- Hulse, L. Mortimer. (See Wagner, Harry F., assignor.)
- Hulsebos, Albert B., and G. Den Besten, assignors to Safety Release Clevis Co., Holland, Mich. Heavy-duty safety hitch for large tractors and road graders. No. 1,402,862; Jan. 10.
- Hulslander, Ray D., Chicago, Ill. Hammer. No. 1,409,449; Mar. 14.
- Hulsmann, Anton, San Francisco, Calif. Contra-piston brake for motor vehicles. No. 1,411,887; Apr. 4.
- Hulsmann, Anton, San Francisco, Calif. Amusement device. No. 1,421,238; June 27.
- Hulson, Arthur W. and J. W., Keokuk, Iowa. Locomotive grate. No. 1,413,986; Apr. 25.
- Hulson, John W. (See Hulson, Arthur W. and J. W.)
- Hülss, Friedrich, Halensee, near Berlin, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Electric indicating device. No. 1,433,078; Oct. 24.
- Hultberg, Oscar, Seattle, Wash. Wave motor. No. 1,423,115; July 18.
- Hultgren, Axel G., assignor to Aktiebolaget Svenska Kullagorfabriken, Gottenborg, Sweden. Heat treatment and furnace therefor. No. 1,401,983; Jan. 3.
- Hultgren, Charles, assignor to S. Karpen & Bros., Chicago, Ill. Bedstead. No. 1,405,219; Jan. 31.
- Hultman, Carl A. W., Stockholm, Sweden. Selector switch. No. 1,415,648; May 9.
- Hultman, Carl A. W., Stockholm, Sweden. Semiautomatic telephone system. No. 1,431,116; Oct. 3.
- Hultman, Gustaf H., Stockholm, Sweden. Manufacturing chrome alum. No. 1,403,960; Jan. 17.
- Human, Edwin, Milwaukee, Wis. Vegetable cutter. No. 1,429,348; Sept. 19.
- Humason, Granville A., and W. E. Langley, Houston, Tex. Pump. No. 1,409,450; Mar. 14.
- Humason, Granville A., and P. J. Barraco, assignors to Texas Reclaim Oil Association, Houston, Tex. Drill bit and sample-taking device. No. 1,437,805; Dec. 5.
- Humber, Gustave, Denver, Colo. Lantern. No. 1,414,414; May 2.
- Humber, Gustave, Denver, Colo. Electric lantern. No. 1,414,415; May 2.
- Humbert, Karl E., Rye, assignor to C. P. Perin, S. M. Marshall, Frank L. Estep, New York, N. Y. Metal shelving. No. 1,403,961; Jan. 17.
- Humble, Elmer H. (See Houle, A. J., and Humble.)
- Humble, George T. and R. N., Brantford, Ontario, Canada. Display card and the like. No. 1,426,845; Aug. 22.
- Humble, Richard N. (See Humble, George T. and R. N.)
- Hume, Crawford W., assignor to James Howden & Company, Limited, Glasgow, Scotland. Furnace front. No. 1,402,362; Jan. 3.
- Hume, George A. (See Lamb, J. F., and Hume.)
- Hume, Geo. C., et al. (See Boettcher, Otto J., assignor.)
- Hume, James H., assignor to James Howden & Company, Limited, Glasgow, Scotland. Furnace front. No. 1,425,095; Aug. 8.
- Hume, Jessie F., New York, N. Y. Writing implement. No. 1,438,114; Dec. 5.
- Hume, John R., Chicago, Ill. Street indicator. No. 1,415,933; May 16.

Alphabetical list of patentees—Continued.

- Hume Pipe and Concrete Construction Company, The. (See Amplett, H. P., and Jones, assignors.)
- Humbelau, Robert J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Cement shield for tire cores. No. 1,424,199; Aug. 1.
- Humes, Guy B., Chicago, Ill. Attachment for reed musical instruments. No. 1,409,180; Mar. 14.
- Humes, Guy B., Chicago, Ill. Combination mute. No. 1,409,860; Mar. 14.
- Humidity Control Company, The. (See Krick, Arthur E., assignor.)
- Humiston, Frederick L., New Haven, Conn., assignor to Winchester Repeating Arms Company. Spotlight. No. 1,421,944; July 4.
- Hummel, William L., Chicago, Ill. Refrigerator. No. 1,404,961; Jan. 31.
- Hummert, Fred, San Antonio, Tex. Means for covering wooden wall structures. No. 1,426,872; Aug. 22.
- Hummert, Robert H. (See Thomson, S. H., and Hummert.)
- Hump Manufacturing Company, The. (See Goldberg, Solomon H., assignor.)
- Humphrey, Andrew, Glenlyon, Pa. Attachment for sand boxes. No. 1,431,307; Oct. 10.
- Humphrey, Cien S., Brooklyn, N. Y. Box-opening device. No. 1,433,456; Oct. 24.
- Humphrey, Clifford W. (See Rowe, G. H., and Humphrey.)
- Humphrey, Clifford W., Los Angeles, Calif. Fuel meter for internal-combustion engines. No. 1,435,237; Nov. 14.
- Humphrey, Dwight E. (See Urquhart, W. R., Post, Humphrey, and Van Arsdale.)
- Humphrey, Ernest N., assignor to The Traut & Hine Mfg. Company, New Britain, Conn. Buckle. No. 1,438,958; Dec. 19.
- Humphrey Gas Pump Company. (See Adams, Edward T., assignor.)
- Humphrey, Henry L., Monroe, Mich. Tractor wheel. No. 1,408,885; Mar. 7.
- Humphrey, Herbert A., London, England. Apparatus for producing nitric oxide. No. 1,429,035; Sept. 12.
- Humphrey, Hubert R., Kalamazoo, Mich. Gas heater. No. 1,407,750; Feb. 28.
- Humphrey, Hubert R., Kalamazoo, Mich. Gas stove. No. 1,425,096; Aug. 8.
- Humphrey, Hubert R., Kalamazoo, Mich. Gas burner. No. 1,425,097; Aug. 8.
- Humphrey, Noah W., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Hydraulic machine. No. 1,404,717; Jan. 24.
- Humphrey, Orson J., Elyria, Ohio. Pneumatic-tire tube. No. 1,417,383; May 28.
- Humphreys, Charles A., Chicago, Ill. Tip for belts and straps. No. 1,405,516; Feb. 7.
- Humphreys, Charles A., Bluefield, W. Va. Controlling device. No. 1,428,375; Sept. 5.
- Humphreys, Charles R., assignor to Sanitary Equipment Construction Company, Wilmington, N. C. Combined sanitary privy and septic tank. No. 1,404,123; Jan. 17.
- Humphreys, Omar R. (See Humphreys, Walter G., and O. R.)
- Humphreys, Walter G. and O. R., Omaha, Nebr. Trench-digging machine. No. 1,419,381; June 13.
- Humphreys, Walter G. and O. R., Omaha, Nebr. Bucket-chain excavator. No. 1,419,382; June 13.
- Humphreys, Walter G. and O. R., Omaha, Nebr. Power-transmission gearing. No. 1,419,383; June 13.
- Humphreys, William, Fullerton, Pa., assignor to Wilmort Manufacturing Company, Chicago, Ill. Measuring gauge. No. 1,422,576; July 11.
- Humphreys, William J. (See Phelps, Lucius J., assignor.)
- Humphries, Francis W., and L. E. Mackenzie, Carman, Manitoba, Canada. Grain-cleaning machine. No. 1,428,093; Sept. 5.
- Humphries, John S. (See Poston, F. E., and Humphries.)
- Humphries, Thomas Z., Detroit, Mich. Garage building. No. 1,418,714; June 6.
- Hundelby, Frederick J., Droylsden, and H. M. Lawson, Manchester, England. Splash guard for the wheels of motor vehicles. No. 1,421,239; June 27.
- Hundrieser, Hans, Halensee, near Berlin, Germany. Tubular rock drill. No. 1,422,361; July 11.
- Hungerford, Warren H. (See Peters, F. M., and Hungerford.)
- Hunkins, William B. (See Earl, Arthur T., and Hunkins.)
- Hunley, Dempsey R., Cofoco, W. Va. Combination trolley-vehicle stretcher and splice. No. 1,421,481; July 4.
- Hunnell, Elbridge R., New York, N. Y. Split-rim attachment. No. 1,417,171; May 23.
- Hunt, Arthur H., Virgil, Kans. Self-adjusting clutch. No. 1,422,062; July 4.
- Hunt, Abbe P. (See Field, E. B., and Hunt.)
- Hunt, C. Howard, Pen Company. (See Bartol, George E., jr., assignor.)
- Hunt, C. W., Company, Inc. (See Mellin, George E., assignor.)
- Hunt, Charles E., Raquette Lake, N. Y. Animal trap. No. 1,435,472; Nov. 14.
- Hunt, Clinton H., Steubenville, Ohio. Manipulator for feed tables for rolling mills. No. 1,403,083; Jan. 10.
- Hunt, Floyd D., Burlington, Vt. Storm window. No. 1,419,384; June 13.
- Hunt, Fred L., assignor to Perkins Corporation, Mishawaka, Ind. Closure for lever slots. No. 1,405,135; Jan. 31.
- Hunt, Fred N., et al. (See Hart, Albert J., assignor.)
- Hunt, George L., Manufacturing Company, The. (See Hunt, George L., assignor.)
- Hunt, George L., Boscobel, Wis. Means and method for applying brake linings to brake bands. No. 1,411,358; Apr. 4.
- Hunt, George L., assignor to The George L. Hunt Manufacturing Company, Inc., Boscobel, Wis. Gear puller. No. 1,435,397; Nov. 14.
- Hunt, Harry. (See Webster, J. S., and Hunt.)
- Hunt, Helm, Ferris & Company. (See Ferris, Howard J., assignor.)
- Hunt, John, Newark, N. J. Tool holder. No. 1,409,719; Mar. 14.
- Hunt, John H., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Ignition system. No. 1,406,190; Feb. 14.
- Hunt, John H., assignor to The Dayton Engineering Laboratories Company, Dayton, Ohio. Temperature-compensated regulator. No. 1,425,858; Aug. 15.
- Hunt, John H., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Ignition system. No. 1,426,873; Aug. 22.
- Hunt, John H., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Ignition system. No. 1,428,635; Sept. 12.
- Hunt, John M., Charleston, W. Va. Headlight. No. 1,407,544; Feb. 21.
- Hunt, John R., Indianapolis, Ind., assignor to International Moving Picture & Film Company, Nashville, Tenn. Machine for projecting colored motion pictures. No. 1,404,773; Jan. 31.
- Hunt, John R., Indianapolis, Ind., assignor to International Moving Picture & Film Company, Nashville, Tenn. Film-feeding means for motion-picture machines. No. 1,427,597; Aug. 29.
- Hunt, Katherine, Cambridge, Mass. Airplane. No. 1,405,035; Jan. 31.
- Hunt, Lloyd R., Lexington, N. C. Shock absorber for automobiles. No. 1,406,388; Feb. 14.
- Hunt, Marshall E., Belle Plaine, Iowa. Treating and restoring used, storage batteries. No. 1,430,167; Sept. 26.
- Hunt, Nannie K., Adolphus, Ky. Sole and heel frame. No. 1,410,064; Mar. 21.
- Hunt, Nannie K., Adolphus, Ky. Collapsible shipping container. No. 1,424,099; July 25.
- Hunt, Ormond E., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. No. 1,402,863; Jan. 10.
- Hunt, Ormond E., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. No. 1,407,413; Feb. 21.
- Hunt, Ormond E., assignor to Packard Motor Car Company, Detroit, Mich. Propeller drive for hydrocarbon motors. No. 1,415,092; May 9.
- Hunt, Seth B., trustee. (See Ellis, Carleton, assignor.)
- Hunt, Seth B., trustee. (See Wells, Alfred A., assignor.)
- Hunt, Thomas, and H. R. Biersdorf, Portland, Ore. Sanitary moistening cup. No. 1,408,201; Feb. 28.
- Hunt, Thomas, Wilkes-Barre, and E. Stetler, Parsons, Pa. Silk-doubling machine. No. 1,414,121; Apr. 25.
- Hunt, William E., Silver City, N. Mex. Reproducer for phonographs. No. 1,410,679; Mar. 28.
- Hunter, Clark Ventilating System Company. (See Clark, Ren S., assignor.)
- Hunter, George F., Portland, Ore. Electric-circuit breaker. No. 1,438,308; Dec. 12.
- Hunter, Harrison A., Mantato, Kans. Traction tread for wheels. No. 1,419,503; June 13.
- Hunter, Harry E., San Jose, Calif. Sliding window lock. No. 1,404,297; Jan. 24.
- Hunter, Herbert H., Los Angeles, Calif. Bolter-up tool. No. 1,402,165; Jan. 3.
- Hunter, Herbert L., Cleveland, Ohio. Extension stock for plumb levels. No. 1,430,904; Oct. 3.
- Hunter, James R., Cincinnati, Ohio. Automobile lock. No. 1,408,806; Mar. 7.
- Hunter, Joseph, Little Rock, Ark. Camp cot. No. 1,433,457; Oct. 24.
- Hunter, Joseph H., Detroit, Mich. Nonstretchable cord. No. 1,405,591; Feb. 7.
- Hunter, Peter C., Brooklyn, N. Y. Marine toilet. No. 1,403,688; Jan. 17.
- Hunter, Richard B., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electrical controller. No. 1,420,842; June 27.
- Hunter, Robert L., Norfolk, Va. Continuous-pressure cooker. No. 1,419,139; June 13.
- Hunter, Thomas H., Los Angeles, Calif. Advertising film and producing the same. No. 1,426,567; Aug. 22.
- Hunter, Thomas W., Oakland, Calif. Brooder construction. No. 1,426,874; Aug. 22.
- Hunter, Thomas W., Oakland, Calif. Oil burner. No. 1,433,822; Oct. 31.
- Hunter, W. Irvin. (See Snively, Wilson J., assignor.)
- Hunter, Walter H., and K. Serai, Honolulu, Hawaii. Feeding device for cans. No. 1,439,550; Dec. 19.
- Hunter, William F., assignor of one-half to L. C. Everding, Arcata, Calif. Tool. No. 1,410,184; Mar. 21.
- Hunter, William T., Chicago, Ill. Dispensing apparatus. No. 1,439,819; Dec. 26.

Alphabetical list of patentees—Continued.

- Hunting, Willard C., Cochituate, assignor to Hazen-Brown Company, Boston, Mass. Paste-applying apparatus. No. 1,427,816; Sept. 5.
- Huntley, Alton K., Clyde, Ohio, assignor to National Carbon Company, Inc. Electric battery. No. 1,407,035; Feb. 21.
- Huntley, Ernest R., assignor to Industrial Research Corporation, Toledo, Ohio. Liquid-fuel-feed system. No. 1,410,013; Mar. 21.
- Huntley, Ernest R., assignor to Industrial Research Corporation, Toledo, Ohio. Gasoline-feed system. No. 1,414,952; May 2.
- Huntley, Ernest R., Milwaukee, Wis., assignor to Industrial Research Corporation, Toledo, Ohio. Gearing. No. 1,425,496; Aug. 8.
- Huntly, Philip C., Chicago, Ill. Manifold shield. No. 1,416,352; May 16.
- Huntton, Charles F., Chicago, Ill. Bake beam. No. 1,422,863; July 18.
- Huntton, Charles F., Chicago, Ill. Brake-beam support. No. 1,427,474; Aug. 29.
- Huntton, Charles F., Chicago, Ill. Brake head. No. 1,432,862; Oct. 24.
- Huntton, Josephine G. (See Huntton, Lawrence A. and J. G.)
- Huntton, Lawrence A. and J. G., Springfield, Mass. Identification tag for babies. No. 1,424,747; Aug. 1.
- Huntress, Harry W., Turlock, Calif. Bedspring. No. 1,414,471; May 2.
- Huntress, Harry W., Turlock, Calif. Bank-window shield. No. 1,423,327; July 18.
- Huntress, Harry W., Turlock, Calif. Protector for tellers or other money handlers. No. 1,436,315; Nov. 21.
- Hunzicker, Walter W., La Fayette, Ind., assignor to The Ohio Brass Company, Mansfield, Mass. Electric regulation. No. 1,413,276; Apr. 18.
- Hunziker, Fred, Cleveland, Ohio. Adjustable cutting tool. No. 1,409,379; Mar. 14.
- Hup Mfg. Co. (See Hupfel, Adolph G., assignor.)
- Hupfel, Adolph G., Reno, Nev., assignor to Hup Mfg. Co., Inc., New York, N. Y. Type-holding means for marking devices. No. 1,422,268; July 11.
- Hupp, Albert, Oak Park, Ill. Spring support for vehicles. No. 1,410,313; Mar. 21.
- Hupp, Albert, Oak Park, Ill. Spring support for vehicles. No. 1,416,469; May 16.
- Hupp, Irvin, Chicago, Ill. Transmission mechanism. No. 1,415,239; May 9.
- Hupp, Irvin, Chicago, Ill., assignor, by mesne assignments, to Flexo Motive Corporation. Clutch mechanism. No. 1,413,987; Apr. 25.
- Hupp, Irvin, Chicago, Ill., assignor to Flexo Motive Corporation. Differential mechanism. No. 1,420,706; June 27.
- Hupp, Irvin, Chicago, Ill., assignor to Flexo Motive Corporation. Transmission mechanism. No. 1,429,349; Sept. 19.
- Hupp, Irvin, assignor to Flexo-Motive Corporation. Chicago, Ill. Flexible coupling. No. 1,431,401; Oct. 10.
- Huppertz, John, et al. (See Delling, Alwin, assignor.)
- Hurd, Freeman S. (See Budd, I. D., Cronburg, and Hurd.)
- Hurd, Hugh N., Buffalo, N. Y. Speed-controlling system for motors and the like. No. 1,431,733; Oct. 10.
- Hurd, Milner, Sheffield, England. Screen for cinematograph pictures and the like. No. 1,411,661; Apr. 4.
- Hurd, Norman B., assignor to The American Hardware Corporation, New Britain, Conn. Door-holding device. No. 1,421,691; July 4.
- Hurd, Norman B., assignor to The American Hardware Corporation, New Britain, Conn. Door lock. No. 1,430,905; Oct. 3.
- Hurd, Norman B., assignor to The American Hardware Corporation, New Britain, Conn. Cylinder lock. No. 1,433,620; Oct. 31.
- Hurewicz, Bertha, Philadelphia, Pa. Hair foundation. No. 1,409,720; Mar. 14.
- Hurl, Charles W., Nantyglo, assignor to J. W. Kephart and J. W. Leech, Ebensburg Borough, Pa. Automatic release valve for air-brake systems. No. 1,406,020; Feb. 7.
- Hurlburt, Marion, New York, N. Y. Arbor for multigraph machines. No. 1,410,014; Mar. 21.
- Hurlbut, Frank A., Flat River, Mo. Furnace-bridge-wall construction. No. 1,428,636; Sept. 12.
- Hurlbut, Harden R., Wheaton, Mo. Tool for inserting raceways in hubs and housings. No. 1,438,039; Dec. 5.
- Hurley, Edward T., Cincinnati, Ohio. Crayon. No. 1,414,570; May 2.
- Hurley, Edward T., Cincinnati, Ohio. Clamp for artists' canvases. No. 1,432,336; Oct. 17.
- Hurley, James, St. Paul, Minn. Trap. No. 1,415,093; May 9.
- Hurley, John P., Denver, Colo. Vehicle window. No. 1,432,396; Oct. 17.
- Hurley, Joseph C., assignor to Petroleum Fuel Engineering Company, Philadelphia, Pa. Hydrocarbon burner. No. 1,406,739; Feb. 14.
- Hurley, Roy T. (See Blodgett, Hurley, and Cheney.) (Reissue.)
- Hurlimann, Ernst. (See Schneider, J., Hurlimann, and Billon.)
- Hurrell, Guy C., London, England. Filter and filter press. No. 1,414,132; Apr. 25.
- Hursh, Newton D. (See Lang, Charles A., assignor.)
- Hurst, Henry, et al. (See Hale, Noah, assignor.)
- Hurst, Hugh F., Richmond, Va., assignor to Hurst Label Printing Machine Company, Incorporated. Printing and stamping machine. No. 1,426,069; Aug. 15.
- Hurst, James F., et al. (See Robinson, George, assignor.)
- Hurst Label Printing Machine Company. (See Hurst, Hugh F., assignor.)
- Hurst, Lindsay R., Louisville, Ky. Flush valve. No. 1,435,067; Nov. 7.
- Hurst, Nannie F., Eureka Springs, Ark. Invalid's sanitary comfort lift. No. 1,404,300; Jan. 24.
- Hurst, William A., Battle Ground, Ind. Belt buckle. No. 1,423,218; July 18.
- Hurst, William C., New York, N. Y. Steering wheel for aeroplanes. No. 1,424,143; July 25.
- Hurst, William C., and P. J. Dwyer, New York, N. Y. Detachable-rim clip. No. 1,429,736; Sept. 19.
- Hurst, William J., Brooklyn, assignor to S. S. Stafford, Inc., New York, N. Y. Cleansing and polishing preparation. No. 1,433,887; Oct. 31.
- Hurst, Willis F., Pittsburgh, Pa., assignor to Slag Rock Machine Company. Conveyor for pig-metal-casting machines. No. 1,435,007; Nov. 7.
- Hurst, Willis T., assignor to Slag Rock Machine Company, Pittsburgh, Pa. Casting slag. No. 1,402,363; Jan. 3.
- Hurst, Willis T., Pittsburgh, Pa., assignor to Slag Rock Machine Company. Hook positioner. No. 1,424,479; Aug. 1.
- Hurt, George F., assignor, by mesne assignments, to J. Hurt, Atlanta, Ga. Sulphuric-acid manufacture. No. 1,415,353; May 9.
- Hurt, George F., New York, N. Y., assignor, by mesne assignments, to J. Hurt, Atlanta, Ga. Storage building. (Reissue.) No. 15,505; Dec. 12.
- Hurt, Henry H., Yonkers, assignor to Robeson Process Company, New York, N. Y. Making roads. No. 1,424,308; Aug. 1.
- Hurt, Joel. (See Hurt, George F., assignor.) (Reissue.)
- Hurt, Samuel N., assignor to Toledo Scale Company, Toledo, Ohio. Indicator band. No. 1,409,299; Mar. 14.
- Hurt, William P. (See Laswell, Vernie E., assignor.)
- Hurter, Henry, assignor to Fulton Iron Works Company, St. Louis, Mo. Roll for cane-crushing apparatus. No. 1,409,001; Mar. 7.
- Hurter, Henry, assignor to Fulton Iron Works Company, St. Louis, Mo. Cane mill. No. 1,409,002; Mar. 7.
- Hurter, Henry, assignor to Fulton Iron Works Company, St. Louis, Mo. Cane mill. No. 1,422,979; July 18.
- Hurtt, Frank L., assignor of one-half to G. La Croix, Peoria, Ill. Mouthpiece for musical instruments. No. 1,436,631; Nov. 21.
- Hurtz, Henry E., Hawthorne, N. J. Textile reed. No. 1,420,262; June 20.
- Husak, Milvoy J., Cedar Rapids, Iowa. Engine-connecting-rod test gauge. No. 1,436,104; Nov. 21.
- Husar, John, Chicago, Ill. Key ring. No. 1,439,738; Dec. 26.
- Husarcik, Matus. (See Haydusek, J., and Husarcik.)
- Huse, Roy C., and L. V. Gordon, Kingfield, Me. Razor strop. No. 1,403,324; Jan. 10.
- Huser, Adolf T., North Bergen, assignor to J. W. Steward, Paterson, N. J. Shuttle-thread package. No. 1,408,202; Feb. 28.
- Hush, Ralph, Johannesburg, Transvaal, South Africa. Mill or machine for grinding or pulverizing ore and other materials. No. 1,436,590; Nov. 21.
- Huss, Frank E., and W. W. Mommens, Belleville, Ill. Rail joint. No. 1,427,739; Aug. 29.
- Hussey, Albert R. (See Parsons, L. W., Morgan, and Hussey.)
- Hussey, Louise U., administratrix. (See Underhill, George H.)
- Hussey, Patrick J., New York, N. Y. Valve. No. 1,414,416; May 2.
- Husson, Jean, Berne, Switzerland. Soil mixture for a forced growing of potatoes and its manufacture. No. 1,417,248; May 23.
- Hussong Dyeing Machine Company. (See Thompson, James H., assignor.)
- Hussong Dyeing Machine Company. (See Trickett, Walter S., assignor.)
- Husted, Julius H., Chicago, Ill. Manufacturing envelopes. No. 1,404,526; Jan. 24.
- Husted, Monroe G., Bridgeton, N. J. Tool-grinding attachment for lathes. No. 1,407,419; Feb. 21.
- Huston, Charles L., Coatesville, Pa. Rolling mill. No. 1,440,221; Dec. 26.
- Huston, John T., Columbus, Ga. Peanut digger. No. 1,412,614; Apr. 11.
- Huston, William R., Auburn, Me. Food product and making the same. No. 1,414,022; Apr. 25.
- Hutcheson, Carrie, et al. (See Hiett, William S., assignor.)
- Hutcheson, Earl H., Augusta, Ga. Windshield awning. No. 1,423,116; July 18.
- Hutcheson, Joseph F., et al. (See Hiett, William S., assignor.)
- Hutcheson, Willard D., et al. (See Hiett, William S., assignor.)
- Hutchings, Frederick E., Brooklyn, assignor to Hutchings Manufacturing Co., Inc., New York, N. Y. Automobile bumper. No. 1,440,081; Dec. 26.

- Hutchings Manufacturing Co. (See Hutchings, Frederick E., assignor.)
- Hutchins Car Roofing Company. (See Hawsworth, David W., assignor.)
- Hutchins Car Roofing Company. (See Wilson, Alfred R., assignor.)
- Hutchins, Colin, Leamington, Ontario, Canada. Collapsible mold cone. No. 1,431,000; Oct. 3.
- Hutchins, Frank W., Miami, Ariz. Measuring device. No. 1,414,571; May 2.
- Hutchins, George F., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Loom-needle mechanism. No. 1,415,177; May 9.
- Hutchins, John, Auburn, Wash. Measuring instrument. No. 1,420,105; June 20.
- Hutchins, Otis, assignor to The Carborundum Company, Niagara Falls, N. Y. Treatment of zirconium ores. No. 1,427,816; Sept. 5.
- Hutchins, Paul W. (See Yale, R. H., Hutchins, and Merting.)
- Hutchins, Rufus J., Middletown, Ohio. Water heater. No. 1,421,692; July 4.
- Hutchins, Rufus J., and J. Kirby, jr., assignors to The Dayton Manufacturing Company, Dayton, Ohio. Water heater. No. 1,414,361; May 2.
- Hutchins, William H., assignor to North East Electric Company, Rochester, N. Y. Ignition timer. No. 1,432,337; Oct. 17.
- Hutchinson, Carleton H., Hanover, Mass. Internal-combustion engine. No. 1,437,757; Dec. 5.
- Hutchinson, Carleton H., Hanover, Mass. Internal-combustion engine. No. 1,440,150; Dec. 26.
- Hutchinson, Charles W., New Rochelle, N. Y. Burglar protective apparatus. No. 1,409,721; Mar. 14.
- Hutchinson, Charles W., New Rochelle, N. Y. Curtain hanger. No. 1,409,722; Mar. 14.
- Hutchinson, David M., St. Louis, Mo. Spark plug. No. 1,423,219; July 18.
- Hutchinson, Ely C. (See Buehle, E., and Hutchinson.)
- Hutchinson, Frank L., assignor to Sterling Engineering Co., Milwaukee, Wis. Valve mechanism. No. 1,422,980; July 18.
- Hutchinson, Franklin, jr. (See Speed, J. B., and Hutchinson.)
- Hutchinson, Harmer D., et al. (See Craft, Clarence H., assignor.)
- Hutchinson, Hubert. (See Le Fevre, G. A., and Hutchinson.)
- Hutchinson, James F., Cozad, Nebr. Aero lighthouse. No. 1,404,962; Jan. 31.
- Hutchinson, Job, Brooklyn, N. Y. Two-cycle internal-combustion engine. No. 1,429,078; Sept. 12.
- Hutchinson, Joseph. (See Imhoff, F. N., Hutchinson, and Hamilton.)
- Hutchinson, Morton C., Woodbury, assignor of one-half to L. G. Buckwalter, Merchantville, N. J. Yield-point detector. No. 1,428,637; Sept. 12.
- Hutchinson, Oliver C. K., assignor to Illinois Glass Company, Alton, Ill. Apparatus for testing glass containers. No. 1,427,817; Sept. 5.
- Hutchinson, Richard A., Kenilworth, N. J. Needle-pointing machine. No. 1,419,140; June 13.
- Hutchinson, Robert, Nottingham, England. Aging wheat flour to improve its baking qualities. No. 1,422,102; July 11.
- Hutchinson, Walter L., Hartford, Conn., assignor to The Skayef Ball Bearing Company. Antifriction-bearing mounting. No. 1,427,818; Sept. 5.
- Hutchinson, William S., Bethlehem, Pa. Roof construction. No. 1,413,584; Apr. 25.
- Hutchison, David R., assignor to Scott's Shipbuilding & Engineering Company, Limited, Greenock, Scotland. Engine crosshead. No. 1,403,165; Jan. 10.
- Huth, John A., assignor to S. M. Lawson, Cincinnati, Ohio. Automobile hood clamp. No. 1,425,773; Aug. 15.
- Huther, William F., Canton, Ohio. Roller bearing. No. 1,402,071; Jan. 3.
- Hutshing, Edwin E., Seattle, Wash. Phonograph cabinet. No. 1,426,568; Aug. 22.
- Huton, Charles C. (See Brenizer, G. W., and Hutson.)
- Hutson, Charles C., and J. E. Wissler, Richmond, Ind. Producing shaded printing. No. 1,402,935; Jan. 10.
- Hutter, Francis, New York, N. Y., assignor to The McCall Company. Pattern chart or envelope. No. 1,416,715; May 23.
- Huttinger, Charles A., Lakewood, assignor, by mesne assignments, to The Acme Artificial Silk Company, Cleveland, Ohio. Producing lustrous threads, etc. No. 1,425,654; Aug. 15.
- Huttinger, Charles A., Lakewood, assignor, by mesne assignments, to The Acme Artificial Silk Company, Cleveland, Ohio. Traverse mechanism for winding machines. No. 1,425,655; Aug. 15.
- Hutton, Charles H., Bay Shore, N. Y. Cover support. No. 1,410,571; Mar. 28.
- Hutton, Edward S., Lapel, Ind. Means for controlling discharge from glass tanks. No. 1,423,220; July 18.
- Hutton, Henry T., Donaghadee, Ireland. Lock nut. No. 1,436,805; Nov. 28.
- Hutton, Lionel A. B., Calgary, assignor of one-half to L. C. Constable, Medicine Hat, Alberta, Canada. Reinforced anchor made of plastic and semiplastic material. No. 1,433,621; Oct. 31.
- Hutton, Roy L. (See Cadwalader, Kinsey, assignor.)
- Huwylar, Lyberat, Goldau, Switzerland. Railway baggage or general-goods car. No. 1,419,675; June 13.
- Huyett, F. C., & Sons. (See Wilson, Ezekiel J., assignor.)
- Huyett, Daniel D. (See Keen, H. P., and Huyett.)
- Huyler's. (See Gephart, Frank C., assignor.)
- Hyatt Bearings Division, General Motors Corporation. (See Eason, Clarence M., assignor.)
- Hyatt, Edgar B., Portland, Oreg. Garage-door control. No. 1,410,314; Mar. 21.
- Hyatt, Frank S., Brooklyn, N. Y. Tube compressor. No. 1,422,864; July 18.
- Hyatt, Frank S., Brooklyn, N. Y. Vanity box. No. 1,422,981; July 18.
- Hyatt Roller Bearing Company. (See Ayers, Joseph G., jr., assignor.)
- Hybinette, Noah V., Ottawa, Ontario, Canada, assignor to Kristiansands Nikkelraffineringsverke, Christiansands, S. Norway. Extraction and recovery of copper. No. 1,407,420; Feb. 21.
- Hyde, Charles H., assignor to William L. Gilbert Clock Company, Winsted, Conn. Clock case. No. 1,418,649; June 6.
- Hyde, Joseph, Providence, R. I. Puzzle. No. 1,439,670; Dec. 19.
- Hyde, Oscar H., St. Louis, Mo., and P. A. Zimmerman, Springfield, Ohio, assignors, by mesne assignments, to said Hyde. House for fowls. No. 1,404,963; Jan. 31.
- Hyde, Robert C., Des Moines Iowa. Lock for locomotive shaker bars. No. 1,412,181; Apr. 11.
- Hyde, Robert R., and J. C. Hook, Shattuck, Okla. Railway tie. No. 1,426,479; Aug. 22.
- Hydraulic Machinery Company Limited. (See Root, Bertwell C., assignor.)
- Hydraulic Press Manufacturing Company, The. (See Stevenson, Francis E., assignor.)
- Hydraulic Pressed Steel Company, The. (See Bowen, Edward W., assignor.)
- Hydraulic Pressed Steel Company, The. (See Davidson, Harry O., assignor.)
- Hydraulic Pressed Steel Company, The. (See Edwards, W. R., and Lukes, assignors.)
- Hydraulic Pressed Steel Company, The. (See Foster, Henry J., assignor.)
- Hydraulic Pressed Steel Company, The. (See Hilton, John H., assignor.)
- Hydraulic Pressed Steel Company, The. (See Irish, W. E., and Nowak, assignors.)
- Hydraulic Pressed Steel Company, The. (See Klaus, F. R., and Kranz, assignors.)
- Hydraulic Pressed Steel Company, The. (See Kranz, H. W., and Lukes, assignors.)
- Hydraulic Pressed Steel Company, The. (See Leffler, Ralph R., assignor.)
- Hydraulic Press Manufacturing Company, The. (See Stevenson, Francis E., assignor.)
- Hydro-Carbon Burner Manufacturing Company. (See Syme, David M., assignor.)
- Hydrogenated Oil Company. (See Wimmer, Karl H., assignor.)
- Hyer, John R., Herkimer, N. Y. Waterproofing composition. No. 1,405,220; Jan. 31.
- Hygienic Bottle Cap Company, The. (See Parker, Charles C., assignor.)
- Hykon Manufacturing Company, The. (See Hick, Harry J., assignor.)
- Hyland, Mathew M., Seattle, Wash. Educational chart. No. 1,439,551; Dec. 19.
- Hyle, Jacob A. (See Herman, J. W., and Hyle.)
- Hyle, Jacob A., and G. W. Whiteman, Philadelphia, Pa. Railway rail joint. No. 1,418,930; June 6.
- Hyman, Henry & Co., Inc. (See Drufva, John T., assignor.)
- Hyman, Henry, & Co., Inc. (See Rothenberg, Harry, assignor.)
- Hyman, Joseph, New York, N. Y. Setting for jewelry. No. 1,431,734; Oct. 10.
- Hyman, Thomas J., Oak Park, Ill. Check-writing machine. No. 1,430,014; Sept. 26.
- Hyndes, George M., Dallas, Tex. Automatic ball-bearing side bearing for railway trucks. No. 1,429,737; Sept. 19.
- Hyndman, Alexander H., Chicago, Ill. Magneto. No. 1,403,689; Jan. 17.
- Hyndman, Alexander H., Chicago, Ill. Magneto. No. 1,407,421; Feb. 21.
- Hyndman, Hugh, Palmerston, Ontario, Canada. Sled. No. 1,417,172; May 23.
- Hynes, John J. (See O'Neill, C. C., and Hynes.)
- Hynes, Lee P., assignor to Consolidated Car-Heating Company, Albany, N. Y. Terminal box. No. 1,413,735; Apr. 25.
- Hynes, Lee P., assignor to Consolidated Car-Heating Company, Albany, N. Y. Resistance unit. No. 1,415,240; May 9.
- Hyson, Roy S., Morristown, Ind. Vehicle road construction. No. 1,409,952; Mar. 21.
- Hyten, Forrest C. and P. J. Hawkins, Indianapolis, Ind. Concrete roof-tile pallet. No. 1,425,015; Aug. 8.
- Iannelle, Louis, Newton, Mass. Fastening device for detachable shoe heels. No. 1,430,168; Sept. 26.
- Ibach, Emil, assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Metal wheel and making the same. No. 1,404,395; Jan. 24.

Alphabetical list of patentees—Continued.

- Ibach, Emil, assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Hub-cap-locking device. No. 1,424,480; Aug. 1.
- Icenhour, Albert A., assignor to Virginia Plate Glass Corporation, Arlington, Va. Glass-plate manufacture. No. 1,407,086; Feb. 21.
- Icher, Joseph, Sagamore, Pa. Screen door. No. 1,430,015; Sept. 26.
- Icke, Stanley C. (See Miller, R., and Icke.)
- Ickes, Peter C., Kansas City, Mo. Concrete tie. No. 1,410,185; Mar. 21.
- Icy-Hot Bottle Company, The. (See Altenberg, George P., assignor.)
- Ide, Geo. P., & Company. (See Moore, Harold J., assignor.)
- Ide, Geo. P., & Company. (See Twining, Frank B., assignor.)
- Ide, Harry H. (See Currier, H. D., and Ide.) (Reissue.)
- Ide, Harry H., La Grange, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Automatic telephone system. No. 1,402,936; Jan. 10.
- Ide, Harry H., La Grange, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Automatic telephone system. No. 1,413,027; Apr. 18.
- Ideal Rim Tool Co. (See Peterson, Peter R., assignor.)
- Ideal Roller and Manufacturing Company. (See Linder, Oscar, assignor.)
- Ideal Tool & Mfg. Company. (See Warn, C. A., and Norgren, assignors.)
- Ideal Wrapping Machine Company. (See Clemson, Richard D., assignor.)
- Ideal Wrapping Machine Company. (See Lietz, Charles J., assignor.)
- Ideco. (See Maurer, Henry E., Jr., assignor.)
- Idso, Albert. (See Fiscus, Jesse L., assignor.)
- Iftiger, William C., Los Angeles, Calif. Plunger. No. 1,429,036; Sept. 12.
- Iggberg, Frederick W., assignor to Logansport Machine Company, Logansport, Ind. Collet chuck. No. 1,403,415; Jan. 10.
- Igney, Asal W., et al. (See Igney, William D. F., assignor.)
- Igney, Cecil C., et al. (See Igney, William D. F., assignor.)
- Igney, William D. F., C. C. Igney, and one-fourth to D. M. Rupert, Roanoke, and one-fourth to A. W. Igney, Huntington, Ind. Draft rig for tractors. No. 1,419,119; June 6.
- Igo, Joseph H., Chicago Heights, Ill. Bumper for automobiles. No. 1,410,015; Mar. 21.
- Igoe Brothers. (See Tubbs, Earl D., assignor.)
- Ilgan Electric Company. (See Wright, Stanley R., assignor.)
- Ihli, A. K., Elektroteknisk Verksted. (See Willmann, Hans, assignor.)
- Ihmels, Diedrich, Hanover, Germany. Portable kiosk for selling newspapers, books, or other articles. No. 1,408,021; Feb. 7.
- Ihrig, Justus K. (See Ihrig, Peter J., assignor.)
- Ihrig, Peter J., assignor of one-half to J. K. Ihrig, Springfield, Ohio. Curb box or pipe. No. 1,429,350; Sept. 19.
- Ikeda, Juichi, and M. Miura, Kobe, Japan. Two-fold envelope or double envelope. No. 1,421,240; June 27.
- Iler, Franklin M., Cleveland, Ohio. Molding machine. No. 1,419,566; June 13.
- Ilex Optical Company. (See Klein, Rudolph, assignor.)
- Ilford Limited. (See Agnew, A. J., and Renwick, assignors.)
- Iliffe, Arthur C., Haileybury, Ontario, Canada. Automatic stop for talking machines. No. 1,408,740; Mar. 7.
- Illig, George D., Depew, N. Y. Wrench. No. 1,423,803; July 25.
- Illig, George D., Depew, assignor to Barcalo Manufacturing Company, Buffalo, N. Y. Wrench. No. 1,426,647; Aug. 22.
- Illingworth, George C., Anniston, Ala. Reciprocating pan conveyer. No. 1,422,270; July 11.
- Illingworth, Henry, et al. (See Rowley, Alfred J., assignor.)
- Illingworth, Stewart R., Treforest, Wales. Coking of coal. No. 1,422,269; July 11.
- Illinois Battery Steamer Co. (See Wissing, Alphons J., assignor.)
- Illinois Electric Porcelain Company. (See Kettron, Charles W., assignor.)
- Illinois Glass Company. (See Hutchinson, Oliver C. K., assignor.)
- Illinois Meat Company. (See Brickman, Emil O., assignor.)
- Illinois Mechanical Leather Co. (See Vedovell, Rudolph J., assignor.)
- Illinois Tool Works. (See England, Frank W., assignor.)
- Illinois Tool Works. (See Irwin, Charles J., assignor.)
- Illinois Tool Works. (See Olson, Carl G., assignor.)
- Illinois Watch Case Company. (See Berger, Samuel, assignor.)
- Illinois Watch Case Company. (See Lester, William H., assignor.)
- Illinois Zinc Company. (See Thompson, Sherman, assignor.)
- Ilseng, Christian N., Chicago, Ill. Car-window sash. No. 1,430,800; Oct. 3.
- Imbler, John and S., Carmel, Ind. Automobile repair derrick. No. 1,426,386; Aug. 22.
- Imbler, Samuel. (See Imbler, John and S.)
- Imes, Harry B., Chicago, Ill. Lifting jack. No. 1,409,861; Mar. 14.
- Imfeld, John G., Rochester, assignor to Vacuum Oil Company, New York, N. Y. Barrel-hoop-driving machine. No. 1,411,436; Apr. 4.
- Imhoff, August J., Newark, N. J., assignor to J. S. Mundy Hoisting Engine Co. Swinging drum for hoisting engines. No. 1,419,855; June 13.
- Imhoff, Floyd N., J. Hutchinson, and C. C. Hamilton, Gull Lake, Saskatchewan, Canada. Rotary pump. No. 1,409,548; Mar. 14.
- Imlay, J. W. (See Hoover, Edgar B., assignor.)
- Imler, Thomas E., Salina, Kans. Automobile turntable. No. 1,417,384; May 23.
- Immand, Gerhard. (See Winter, W., and Immand.)
- Immand, Gerhard, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Self-discharging car. No. 1,421,482; July 4.
- Immand, Gerhard, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Dumping car. No. 1,432,755; Oct. 24.
- Immel, Elmond C., Leeray, Tex. Slip socket. No. 1,428,094; Sept. 5.
- Imperial Brass Manufacturing Company. (See Dobrick, August C., assignor.)
- Imperial Furniture Company. (See Applegate, E. B., and Yeomans, assignors.)
- Imperial Steam Appliance Company. (See Vincent, Louis N., assignor.)
- Impey, Francis L., Northfield, England. Support for loose-leaf books. No. 1,414,281; Apr. 25.
- Impey, Francis L., Northfield, England. Support for loose-leaf books. No. 1,414,282; Apr. 25.
- Improved Equipment Company. (See Niles, Glenn H., assignor.)
- Improved Oil Cup Manufacturing Company. (See Fixary, Anton K., assignor.)
- Improved Paper Machinery Company. (See Haug, Anton J., assignor.)
- Imschweiler, John, Inglewood, Calif. Automatic valve for chicken fountains and the like. No. 1,415,178; May 9.
- Incandescent Supply Company. (See Newland, Barnet, assignor.)
- Inco, Francis S., Los Angeles, Calif. Concealable bed. No. 1,408,510; Mar. 7.
- Indahl, Mauritz C., assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Delivering mechanism for type-casting machines. No. 1,414,472; May 2.
- Independent Milking Machine Company. (See Morgan, W., and Muckle, assignors.)
- Independent Pneumatic Tool Company. (See Levedahl, Axel, assignor.)
- Independent Pneumatic Tool Company. (See Norling, Reinhold A., assignor.)
- Independent Stove Company, The. (See Robinson, William V., assignor.)
- Index Visible, Inc. (See Campbell, C. S., and Day, assignors.)
- Indiana Canning Machinery Company. (See Lindley, James F., assignor.)
- Indiana Lamp Company. (See De Martin, C. L., and Foster, assignors.)
- Indiana Lamp Company. (See Foster, Harry C., assignor.)
- Indiana Manufacturing Company, The. (See Carter, Frank B., assignor.)
- Indiana Manufacturing Company, The. (See Van Deventer, William O., assignor.)
- Indiana Truck Corporation. (See Kerr, Maurice L., assignor.)
- Indianapolis, Manufacturing Company. (See Nordyke, Addison H., assignor.)
- Indianapolis Manufacturing Company. (See Nordyke, Horace W., assignor.)
- Indianapolis Saddlery Company. (See Hendrickson, Robert A., assignor.)
- Industrial Chemical Company. (See Statham, Noel, assignor.)
- Industrial Controller Company. (See Van Valkenburg, Hermon L., assignor.)
- Industrial Process Engineering, The. (See Johns, George M., assignor.)
- Industrial Research Corporation. (See Brockway, Carl P., assignor.)
- Industrial Research Corporation. (See Buchenberg, Alvin E., assignor.)
- Industrial Research Corporation. (See Green, C. F., and Lindsey, assignors.)
- Industrial Research Corporation. (See Green, Charles F., assignor.)
- Industrial Research Corporation. (See Huntley, Ernest R., assignor.)
- Industrial Research Corporation. (See Savon, Herman R., assignor.)
- Infantino, Benjamin P., New York, N. Y. Tile. No. 1,423,117; July 18.
- Inforati, Matteo E., Jr., assignor to J. N. Lapointe Co., New London, Conn. Broaching machine. No. 1,406,022; Feb. 7.
- Ingalls, Frederick A., Bremen Township, Cook County, Ill., assignor to Wyman-Gordon Company, Worcester, Mass. Earth-boring apparatus and making same. No. 1,408,886; Mar. 7.

- Ingalls, Joseph B., Chicago, Ill. Cigarette holder. No. 1,419,141; June 13.
- Ingalls, William A., Scottsbluff, Nebr. Planter. No. 1,403,325; Jan. 10.
- Ingborg, Simon H., Elmhurst, Ill. Concrete-column cap. No. 1,407,277; Feb. 21.
- Ingels, James, Springfield, Ill. Radiator. No. 1,403,784; Jan. 17.
- Ingelson, Gottfrid, Indiana Harbor, Ind. Universal concave shave. No. 1,425,260; Aug. 8.
- Ingersoll, Charles J., Houston, Tex. Clothespin. No. 1,410,254; Mar. 21.
- Ingersoll, Clarence B., Chicago, Ill. Electrical heating device. No. 1,436,657; Nov. 28.
- Ingersoll, Howard L. (See Brown, Ray M., assignor.)
- Ingersoll, Howard L. (See Sheehan, William M., assignor.)
- Ingersoll, Joseph. (See Rapattoni, Ventura, assignor.)
- Ingersoll Milling Machine Company, The. (See Johnson, John R., assignor.)
- Ingersoll Milling Machine Company, The. (See Lyon, Arthur H., assignor.)
- Ingersoll Milling Machine Company, The. (See Rose, Howard C., assignor.)
- Ingersoll-Rand Co. (See Hill, Frank A., assignor.)
- Ingersoll-Rand Company. (See Bancel, Paul A., assignor.)
- Ingersoll-Rand Company. (See Bayles, L. C., and Slater, assignors.)
- Ingersoll-Rand Company. (See Bayles, Lewis C., assignor.)
- Ingersoll-Rand Company. (See Beaver, Carl P., assignor.)
- Ingersoll-Rand Company. (See Ditson, J., and Peters, assignors.)
- Ingersoll-Rand Company. (See Ditson, Jesse, assignor.)
- Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)
- Ingersoll-Rand Company. (See Hart, Thomas J., assignor.)
- Ingersoll-Rand Company. (See Hoffman, P., and Reed, assignors.)
- Ingersoll-Rand Company. (See Huff, Leslie R., assignor.)
- Ingersoll-Rand Company. (See Jimeron, Francis A., assignor.)
- Ingersoll-Rand Company. (See Lundell, Robert A., assignor.)
- Ingersoll-Rand Company. (See Metzgar, Chester W., assignor.)
- Ingersoll-Rand Company. (See Nusim, Melach J., assignor.)
- Ingersoll-Rand Company. (See Parsons, F. W., and Jimeron, assignors.)
- Ingersoll-Rand Company. (See Parsons, Frederick W., assignor.)
- Ingersoll-Rand Company. (See Prellwitz, William, assignor.)
- Ingersoll-Rand Company. (See Redfield, Snowden B., assignor.)
- Ingersoll-Rand Company. (See Saunders, William L., assignor.)
- Ingersoll-Rand Company. (See Slater, Fred M., assignor.)
- Ingersoll-Rand Company. (See Smith, William A., assignor.)
- Ingersoll-Rand Company. (See Smith, William H., assignor.)
- Ingersoll-Rand Company. (See Stage, Harold I., assignor.)
- Ingersoll-Rand Company. (See Trumpler, William E., assignor.)
- Ingersoll-Rand Company. (See Tuttle, Grover G., assignor.)
- Ingham, Emanuel, San Diego, Calif. Producing tubular fabrics. No. 1,403,785; Jan. 17.
- Ingham, Emanuel, San Diego, Calif. Method of and means for weaving circular fabrics. No. 1,438,916; Dec. 12.
- Ingham, Robert, Sellersville, Pa., assignor to United States Gauge Company, New York, N. Y. Pressure gauge. No. 1,414,133; Apr. 25.
- Ingham, Samuel, Pawtucket, R. I. Let-off motion for looms. No. 1,421,241; June 27.
- Ingle, Arthur H. (See Trosch, Alfred, assignor.)
- Ingle, Arthur H., Rochester, N. Y. Taper-boring mechanism for lathes. No. 1,428,095; Sept. 5.
- Ingle, Arthur H., and W. E. Ward, Rochester, N. Y.; said Ward assignor to said Ingle. Apron mechanism for lathes. No. 1,404,027; Jan. 17.
- Ingles, Eugene F., Chicago, Ill. Automatic air-regulating device for gasoline engines. No. 1,408,353; Feb. 28.
- Inglis, Albert H., Salt Lake City, Utah. Punch. No. 1,413,977; Apr. 18.
- Inglis, Henry B., Dayton, Ohio. Machine-gun mount. No. 1,432,756; Oct. 24.
- Inglis, Henry B., Dayton, Ohio. Wind compensator for aircraft guns. No. 1,432,757; Oct. 24.
- Inglis, John, et al. (See Meeder, Herbert L., assignor.)
- Inglis, Joseph J., Motherwell, Scotland. Electromagnetically-operated plate or bar handling skid for rolling mills. No. 1,440,222; Dec. 26.
- Ingold, Paul A., Paris, France. Jointed artificial hand. No. 1,422,714; July 11.
- Ingoldby, Maurice K., assignor to The Variable Speed Gear, Limited, Westminster, London, England. Hydraulic pump and motor. No. 1,424,823; Aug. 8.
- Ingoldsby, Anna, administratrix. (See Ingoldsby, James H.)
- Ingoldsby, James H., deceased, Council Bluffs, Iowa, Anna Ingoldsby, administratrix. Composition for making floor tiling, etc. No. 1,403,786; Jan. 17.
- Ingols, Frank W., Chicago, Ill. Headlight. No. 1,406,648; Feb. 14.
- Ingols, Frank W., Chicago, Ill. Headlight. No. 1,432,292; Oct. 17.
- Ingols, Frank W., Chicago, Ill. Home plate for baseball. No. 1,432,293; Oct. 17.
- Ingraham, Edward G., New Raymer, Colo. Auto card and key case. No. 1,405,136; Jan. 31.
- Ingraham, John, and B. E. Norgaard, Council Bluffs, Iowa. Automobile lock. No. 1,412,004; Apr. 4.
- Ingram, Howard T., Chicago, Ill. Apparatus for making cup pastry. No. 1,420,378; June 20.
- Ingram, Howard T., Kansas City, Mo., assignor to H. T. Ingram, G. Zimmerman, and P. G. Owens, joint trustees for U-Want-A Products Company. Holding implement. No. 1,420,925; June 27.
- Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Annunciator for automobiles and other purposes. No. 1,414,134; Apr. 25.
- Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Liquid-dispensing apparatus. No. 1,414,135; Apr. 25.
- Ingram, Alfred and H., Brooklyn, assignors to Ingrams Incorporated, New York, N. Y. Closure for jars, bottles, and other receptacles. No. 1,430,084; Sept. 26.
- Ingram, Alonzo P., Pittsburgh, Pa. Gummed tape. No. 1,426,569; Aug. 22.
- Ingram, Harry. (See Ingram, Alfred and H.)
- Ingram, Harry E., Brooklyn, N. Y. Bag bottom. No. 1,428,330; Sept. 5.
- Ingram, John B., Los Angeles, Calif. Fruit snowfaker. No. 1,414,953; May 2.
- Ingram, John B., Los Angeles, Calif. Swimmer's glove. No. 1,437,310; Nov. 28.
- Ingram, John D., Texarkana, Tex. Napkin-dispensing device. No. 1,407,156; Feb. 21.
- Ingram, Samuel J., Sydney, New South Wales, Australia. Capsuling of corked bottle mouths and a composition of matter usable therefor. No. 1,428,096; Sept. 5.
- Ingrams Incorporated. (See Ingram, Alfred and H., assignors.)
- Ingvaldstad, Hildar E., assignor to Wm. Warnock Co., Sioux City, Iowa. Stock waterer. No. 1,414,811; May 2.
- Inlaid Company. (See Butler, David H., assignor.)
- Inland Empire Paper Co. (See Rosebush, Waldo E., assignor.)
- Inland Products Company. (See Narsh, Joseph M., assignor.)
- Inman, Edward R. (See Clarke, F. F., and Inman.)
- Inman, Edward R., Franklin, Pa. Exhibition turntable. No. 1,421,008; June 27.
- Inman, Edward R., Franklin, Pa. Turntable. No. 1,421,009; June 27.
- Inman Manufacturing Company, Inc. (See Joslin, Frank M., assignor.)
- Inner Braced Seating Company, The. (See Smiley, William A., assignor.)
- Innes, James, Powell River, British Columbia, Canada. Drumhead-tightening means. No. 1,412,307; Apr. 11.
- Innes, William T., Philadelphia, Pa. Bank deposit slip. No. 1,439,820; Dec. 26.
- Innis, Ezra E. (See Hohmann, P. H., and Innis.)
- Innis, Robert D., Marion, Ind. Dirigible headlight for motor vehicles. No. 1,430,380; Sept. 26.
- Inouye, James M., Ridgefield Park, N. J. Polishing composition or mixture. No. 1,415,570; May 9.
- Inslee, Heber C., Roselle, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Fluid-actuated hammer. No. 1,440,082; Dec. 26.
- Insley Manufacturing Company. (See Insley, W. H., and Rasmussen, assignors.)
- Insley Manufacturing Company. (See Rasmussen, A. C., and Schmid, assignors.)
- Insley Manufacturing Company. (See Worcester, Harold A., assignor.)
- Insley, William H., and A. C. Rasmussen, assignors to Insley Manufacturing Company, Indianapolis, Ind. Dumping bucket. No. 1,425,383; Aug. 8.
- Insley, William H., and A. C. Rasmussen, assignors to Insley Manufacturing Company, Indianapolis, Ind. Hoisting apparatus. No. 1,428,888; Sept. 12.
- Instant Changeable Tire Rim Company. (See Howell, Henry M., assignor.)
- Instant Freezer Company, The. (See Werder, Paul, assignor.)
- Institute of Industrial Research, Inc., The. (See Coggeshall, G. W., and Rector, assignors.)
- Interchangeable Lock Sign Co. et al. (See Samuels, Daniel B., assignor.)
- Interior Window Display Co. (See Cayer, J. L., and Gersdorff, assignors.)
- International Banding Machine Company. (See Malocsay, Francis N., assignor.)
- International Road Wire Company. (See Pratt, Alphonso C., assignor.)
- International Bituconcrete Company. (See Erwin, Reiman G., assignor.)

Alphabetical list of patentees—Continued.

- International Bituconcrete Company. (See Henderson, G. A., and Stephenson, assignors.)
 International Callophone Corporation. (See Timmons, John S., assignor.)
 International Coal Products Corporation. (See Eddison, W. B., and Owens, assignors.)
 International Coal Products Corporation. (See Runge, Walter, assignor.)
 International Coal Products Corporation. (See Smith, C. H., and Edwards, assignors.)
 International Coal Products Corporation. (See Smith, Charles H., assignor.)
 International Color & Chemical Company, Incorporated. (See Ramage, Alexander S., assignor.)
 International Derrick and Equipment Company, The. (See Battelle, G., Runkle, and Tobin, assignors.)
 International Devices Company. (See Kintner, Samuel M., assignor.)
 International Earth-Boring Machine Corporation. (See Gehrandt, Gustav R., assignor.)
 International Earth-Boring Machine Corporation. (See Moore, William E., assignor.)
 International Filter Co. (See Green, Walter H., assignor.)
 International Filler Corporation. (See Shelor, Frederick L., assignor.)
 International Fuel Conservation Co. (See Anderson, Robert J., assignor.)
 International Harvester Company. (See Arnold, Douglass L., assignor.)
 International Harvester Company. (See Benjamin, B. R., and Merwin, assignors.)
 International Harvester Company. (See Bozard, Harrison B., assignor.)
 International Harvester Company. (See Buchanan, Judson, assignor.)
 International Harvester Company. (See Burgess, Edward W., assignor.)
 International Harvester Company. (See Cady, Sherman W., assignor.)
 International Harvester Company. (See Cox, Henry G., assignor.)
 International Harvester Company. (See Curtin, Thomas A., assignor.)
 International Harvester Company. (See Dennis, Samuel K., assignor.)
 International Harvester Company. (See French, Charles A., assignor.)
 International Harvester Company. (See Graham, William S., assignor.)
 International Harvester Company. (See Grieves, Albert, assignor.)
 International Harvester Company. (See Holland-Letz, Lud., assignor.)
 International Harvester Company. (See Howe, Frank D., assignor.)
 International Harvester Company. (See Johnston, E. A., and Mott, assignors.)
 International Harvester Company. (See Johnston, Edward A., assignor.)
 International Harvester Company. (See Johnston, Roy B., assignor.)
 International Harvester Company. (See Merwin, George M., assignor.)
 International Harvester Company. (See Moxey, James A., assignor.)
 International Harvester Company. (See Pearson, Charles, assignor.)
 International Harvester Company. (See Raney, C. R., and Hitchcock, assignors.)
 International Harvester Company. (See Sharp, Charles S., assignor.)
 International Harvester Company. (See Smith, Ernest C., assignor.)
 International Harvester Company. (See Sperry, Herbert B., assignor.)
 International Harvester Company. (See Sturrock, John, assignor.)
 International Harvester Company. (See Webber, William, assignor.)
 International Harvester Company. (See Whitcomb, Louie E., assignor.)
 International Money Machine Company. (See Hawley, Amos H., assignor.)
 International Motor Company. (See Bolger, Robert S., assignor.)
 International Motor Company. (See de La Monte, C. H., assignor.)
 International Motor Company. (See Dixon, Walter L., assignor.)
 International Motor Company. (See Frins, Maximilian C., assignor.)
 International Motor Company. (See Hewitt, E. R., and Blake, assignors.)
 International Motor Company. (See House, Albert B., assignor.)
 International Motor Company. (See Josephs, L. C., Jr., and Wierer, assignors.)
 International Motor Company. (See Leipert, August H., assignor.)
 International Motor Company. (See Lotz, Walter P., assignor.)
 International Motor Company. (See Masury, A. F., and Leipert, assignors.)
 International Motor Company. (See Masury, Alfred F., assignor.)
 International Motor Company. (See Pampinella, Frank, assignor.)
 International Motor Company. (See Price, William T. R., assignor.)
 International Moving Picture & Film Company. (See Hunt, John R., assignor.)
 International Nickel Company, The. (See Cammen, Leon, assignor.)
 International Nitrogen Company. (See Reid, Allan E., assignor.)
 International Nitrogen Company. (See Reid, James H., assignor.)
 International Paper Company. (See Murray, James M., assignor.)
 International Paper Company. (See Shellington, William H., assignor.)
 International Patent Investment Corporation. (See Korée, J. U., and Malluk, assignors.)
 International Patent Licensing Corporation. (See Peters, William A., assignor.)
 International Pavement Co. (See Hemstreet, George P., assignor.)
 International Precipitation Company. (See Anderson, Evald, assignor.)
 International Precipitation Company. (See Moon, Freeman S., assignor.)
 International Precipitation Company. (See Rhodes, Solon H., assignor.)
 International Precipitation Company. (See Schmidt, Walter A., assignor.)
 International Precipitation Company. (See Welch, Harry V., assignor.)
 International Precipitation Company. (See Witte, Gustav A., assignor.)
 International Precipitation Company. (See Wolcott, Edson R., assignor.)
 International Printing Company. (See Henderson, George K., assignor.)
 International Printing Company. (See Kotterman, Eugene, assignor.)
 International Printing Plate Company. (See Goldenbaum, Frederick C., assignor.)
 International Sanitation & Development Company. (See Fetzner, W., Freres, and Elliott, assignors.)
 International Scale Company. (See Craig, Robert, assignor.)
 International Scale Company. (See Osgood, Louis A., assignor.)
 International Signal Co., The. (See Webb, Jean F., jr., assignor.)
 International Silver Co. (See Lee R. T., and Lasher, assignors.)
 International Time Recording Company of New York, The. (See Price, James W., assignor.)
 International Time Recording Company of New York, The. (See Larrabee, Clinton E., assignor.)
 International Time Recording Company of New York, The. (See Odell, George W., assignor.)
 International Time Recording Company of New York. (See Wood, George R., assignor.)
 International Toy Company. (See Chapdelaine, Norbert, assignor.)
 Interstate Electric Novelty Company. (See Dam, Henry R., assignor.)
 Interstate Fibre Company Ltd. (See Freuler, H. F., and Morrill, assignors.)
 Interstate Foundry Company, The. (See Schuman, F. J., and Rothwell, assignors.)
 Interstate Iron and Steel Company. (See McConnell, John, assignor.)
 Interstate Smelting and Refining Co. (See Blalcher, Ernest C., assignor.)
 Intertype Corporation. (See Homans, Thomas S., assignor.)
 Intertype Corporation. (See Pierson, Edwin W., assignor.)
 Intertype Corporation. (See Sperry, Samuel E., assignor.)
 Intertype Corporation. (See Van Keuren, Marvin L., assignor.)
 Invader Oil Corporation. (See Bostic, John L., assignor.)
 Invisible Metal Office Furniture Company. (See Wege, P. M., and Anderson, assignors.)
 Invisible Process Co., The. (See Morse, Charles F., assignor.)
 Inwood, Mary C., administratrix. (See Inwood, Richard G.)
 Inwood, Richard G., deceased, by M. C. Inwood, administratrix. South Bend, Ind., assignor to Wirebonds Patents Company, Kittery, Me. Box-making machine. No. 1,425,774; Aug. 15.
 Ionides, Alexander C., Jr., London, England. Gaseous-fuel burner. No. 1,419,054; June 6.
 Ionides, Alexander C., jr., and S. V. Cooke, London, England; said Cooke assignor to said Ionides. Means for controlling elastic fluids. No. 1,437,311; Nov. 28.
 Iovite Storage Battery Company. (See Williams, Albert H., assignor.)
 Isolola Gesellschaft für Wärme-und Kalte-Isolierung. (See Gumbert, Max, assignor.)
 Ireland, Harold W. F. (See Lucas, H. and O., and Ireland.)

- Ireland, Ward S. (See Fay, John L., assignor.)
- Ireland, Ward S., St. Louis, Mo., assignor, by mesne assignments, to The Davis Sewing Machine Company. Drain board for clothes wringers. No. 1,425,099; Aug. 8.
- Ireland, Ward S., and W. H. Meyer, St. Louis, Mo., assignors, by mesne assignments, to The Davis Sewing Machine Company. Mechanism for locking washing-machine tubs. No. 1,403,904; Jan. 17.
- Ireland, Ward S., and W. H. Meyer, St. Louis, Mo., assignors, by mesne assignments, to The Davis Sewing Machine Company. Tightener for motor-driven belts. No. 1,413,028; Apr. 18.
- Ireland, Ward S., and W. H. Meyer, St. Louis, Mo., assignors, by mesne assignments, to The Davis Sewing Machine Company. Controller for oscillating washing-machine tubs. No. 1,425,098; Aug. 8.
- Irenius, Joseph V., Newark, N. J., assignor to Ferdinand Strauss, Inc., New York, N. Y. Mechanical toy. No. 1,429,738; Sept. 19.
- Irey, John H., Muscatine, Iowa, assignor to Portable Elevator Mfg. Co., Bloomington, Ill. Ventilated corncrib. No. 1,438,917; Dec. 12.
- Irish, William E., and A. K. Nowak, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Elevated carrier for handling frames and the like. No. 1,417,528; May 30.
- Iroff, Phillip, Brooklyn, N. Y. Toothbrush. No. 1,414,645; May 2.
- Iroff, Phillip, Brooklyn, N. Y. Safety razor. No. 1,414,646; May 2.
- Iron City Products Company. (See Arnold, Edwin E., assignor.)
- Iron Horse Tractor Company, The. (See Gardiner, Lou M., assignor.)
- Irons, George C., McKittrick, and A. Larson, Bakersfield, Calif. Tubing bleeder. No. 1,423,937; July 25.
- Irr, Frank X. (See Graf, Martin T., assignor.)
- Irrgang, William F., Springfield, Mass. Hand truck. No. 1,429,432; Sept. 19.
- Irrgang, William F., Springfield, Mass. Hoisting mechanism. No. 1,430,655; Oct. 3.
- Irsch, Jacob, New York, N. Y. Amusement ride. No. 1,422,764; July 11.
- Irsch, Jacob, New York, N. Y. Game of skill. No. 1,433,888; Oct. 31.
- Irvin, Leslie L., Kenmore, N. Y. Aviator's body harness. No. 1,440,151; Dec. 26.
- Irvin, Willis J. (See Barber, W. J., and Irvin.)
- Irving Drew Company. (See Lloyd, Thomas C., assignor.)
- Irving, George E., Batavia, Java, Dutch East Indies. Cigarette-making machine. No. 1,438,309; Dec. 12.
- Irving, John S. (See Coatalen, L., and Irving.)
- Irving, Robert H., Gramercy, La. Fuel valve. No. 1,406,191; Feb. 14.
- Irving, Robert H., Gramercy, La. Fuel-regulating system. No. 1,407,422; Feb. 21.
- Irving-Pitt Manufacturing Company. (See Fargo, C. R., and Unger, assignors.)
- Irving-Pitt Manufacturing Company. (See Pitt, F. D., and Newman, assignors.)
- Irving-Pitt Manufacturing Company. (See Pitt, Frederick D., assignor.)
- Irving-Pitt Manufacturing Company. (See Pitt, William P., assignor.)
- Irwin, Albion D., and N. N. Irwin, East Pittsburgh, Pa. Door fastener. No. 1,431,807; Oct. 10.
- Irwin Auger Bit Company, The. (See Daulton, Benjamin H., assignor.)
- Irwin Auger Bit Company, The. (See Lacy, Dell, assignor.)
- Irwin Auger Bit Company, The. (See Schellenbach, W. L., and Lacy, assignors.)
- Irwin, Charles J., assignor to Illinois Tool Works, Chicago, Ill. Hob. No. 1,431,402; Oct. 10.
- Irwin, Charles M., San Francisco, and E. A. Fischer, Berkeley, Calif. Cot. No. 1,409,380; Mar. 14.
- Irwin, Dina. (See Kolstad, Ole O., assignor.)
- Irwin, George H., Chicago, Ill. Shock-absorber mechanism. No. 1,417,918; May 30.
- Irwin, George R., Turtle Creek, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,416,032; May 16.
- Irwin, Herbert G., Amarillo, Tex. Push-bar attachment for tractors. No. 1,420,106; June 20.
- Irwin, Nova N. (See Irwin, Albion D. and N. N.)
- Isaac Church Expansion Bolt Company, The. (See Church, I., and Montgomery, assignors.)
- Isaachsen, Isak, assignor to A/S de Norske Saltverker, Christiania, Norway. Nutcracker. No. 1,420,263; June 20.
- Isaacs, Mone R., assignor to United Products Corporation of America, Philadelphia, Pa. Coating composition or paint. No. 1,424,908; Aug. 8.
- Isaacson, Carl C., Chicago, Ill. Eraser holder for pencils. No. 1,435,302; Nov. 14.
- Isaacson, Frank O., and E. B. Leefrom, Kansas City, Kans. Window awning. No. 1,433,458; Oct. 24.
- Isaacson, John, Seattle, Wash. Making swivels. No. 1,437,144; Nov. 28.
- Isaacson, William O., Chicago, Ill. Differential gearing. No. 1,435,473; Nov. 14.
- Isachson, Norman, Albion, Idaho. Internal-combustion engine. No. 1,423,718; July 25.
- Isambert, Constant. (See Dutkiewicz, V., and Isambert.)
- Isbell, John A. (See Wood, H. A. W., and Isbell.)
- Isbell-Porter Company. (See Gardner, William T., assignor.)
- Isbills, William L., Elizabeth, N. J. Projector lantern. No. 1,429,244; Sept. 19.
- Ischinger, August F., Pittsburgh, Pa. Holder for stropping safety-razor blades. No. 1,433,375; Oct. 24.
- Isco Chemical Company, Inc. (See Ladd, E. T., and Speiden, assignors.)
- Isebrands, Menno J., Blairsburg, Iowa. Auxiliary locking device for vault doors. No. 1,430,810; Oct. 3.
- Isele, Louis E., Newark, N. J. Toy. No. 1,433,889; Oct. 31.
- Isenberg, Robert G., and H. E. Hedren, Lafayette, Minn. Unloading device. No. 1,410,680; Mar. 28.
- Isenberg, Rudolf A., San Francisco, Calif. Tab for player rolls. No. 1,410,473; Mar. 21.
- Isenberg, Rudolf A., San Francisco, Calif. Elevator controller. No. 1,410,474; Mar. 21.
- Isenberg, Rudolf A., San Francisco, Calif. Elevator controller. No. 1,421,945; July 4.
- Iseron, Abraham S. (See Shirk, A. J., and Cohen, assignors.)
- Isgrig, Walter V., assignor to Badger Manufacturing Corporation, Milwaukee, Wis. Bumper bar. No. 1,424,359; Aug. 1.
- Isham, Harry S., Belmar, N. J. Rubberset cushioned implement handle and insert thimble. No. 1,435,851; Nov. 14.
- Isham, John B., Hampden, Mass. Toilet-paper holder. No. 1,411,029; Mar. 28.
- Ishida, Kiyonao, Tokyo-Fu, Japan. Printing ink. No. 1,410,572; Mar. 28.
- Ishimatsu, Shiro, Los Angeles, Calif. Automobile heater. No. 1,427,475; Aug. 29.
- Isidor, Joseph S., Newark, N. J., assignor to The R. Neumann Hardware Co. Bag-frame lock. No. 1,405,919; Feb. 7.
- Ising, Georg, and H. Borofski, Brunswick, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Producing metal bodies. No. 1,431,233; Oct. 10.
- Isko Company, The. (See Travis, Maurice C., assignor.)
- Isles, Andrew. (See Miller, J. C., and Isles.)
- Isley, George H., assignor to Morgan Construction Company, Worcester, Mass. Reversing apparatus for heating furnaces. No. 1,408,946; Mar. 7.
- Isley, Robert G., Edinburg, Ind. Cultivator. No. 1,422,982; July 18.
- Isoardi, Peter, McCloud, Calif. Mortise joint. No. 1,424,481; Aug. 1.
- Isom, Edward W., Winnetka, Ill., and J. E. Bell, Brooklyn, N. Y., assignors to Sinclair Refining Company, Chicago, Ill. Still. No. 1,432,067; Oct. 17.
- Israel, Isaac, New York, N. Y. Nesting device. No. 1,424,647; Aug. 1.
- Israel, Zisu, Winnipeg, Manitoba, Canada. Automobile or truck fender. No. 1,431,117; Oct. 3.
- Israelson, Peder, Hillman, Minn. Potato cutter. No. 1,420,843; June 27.
- Issenmann, Carl, Erlangen, Germany. Paper-pulp-strip-producing machine. No. 1,411,030; Mar. 28.
- Ito, Umekichi, New York, N. Y. Walking doll. No. 1,406,023; Feb. 7.
- Ithner, Anthony F., et al. (Smith, James F., assignor.)
- Iverson, Victor, Cleghorn, Iowa. Tractor. No. 1,426,070; Aug. 15.
- Ivers, William H. (See Gold, E. E., and Ivers.)
- Ivers-Lee Company. (See Salfsberg, Leroy L., assignor.)
- Iversen, Adolf F. B. (See Andersen, J. U. F., and Iversen.)
- Iverson, John, Minneapolis, Minn. Nonskid chain. No. 1,418,873; June 6.
- Iverson, Leon H. (See Iverson, Lester I., M. W., and L. H.)
- Iverson, Lester I., M. W., and L. H., Penasola, Kans. Wire-handling machine. No. 1,418,575; June 6.
- Iverson, Myron W. (See Iverson, Lester I., M. W., and L. H.)
- Iverson, Peter, Kindred, N. D. Double-acting adjustable churn. No. 1,408,511; Mar. 7.
- Iverson, William H., Osceola, Wis., assignor of one-half to H. F. Ehle, Minneapolis, Minn. Bag holder. No. 1,405,846; Feb. 7.
- Ives, Charles A. (See Macloskie, G., and Ives.)
- Ives, Charles A., Brooklyn, N. Y. Preserve-can holder. No. 1,426,387; Aug. 22.
- Ives, Charles A., Erie, Pa., assignor to General Electric Company. Combined car-door control and air-brake equipment. No. 1,431,461; Oct. 10.
- Ives, Edwin F., Wallingford, Conn. Cotter-pin extractor. No. 1,438,647; Dec. 12.
- Ives, George W., Milwaukee, Ore. Sled for donkey engines. No. 1,417,740; May 30.
- Ives, Harry C., Bridgeport, Conn. Toy boat. No. 1,409,549; Mar. 14.
- Ivins, Ellwood, Philadelphia, Pa. Working-barrel tube. No. 1,420,551; June 20.
- Ivory Garter Company. (See Butts, Daniel G., assignor.)
- Ivory, James W., Philadelphia, Pa. Tooth cervical clamp. No. 1,414,647; May 2.

Alphabetical list of patentees—Continued.

- Iwami, William J., New York, N. Y. Typewriter attachment. No. 1,426,195; Aug. 15.
- Izen, Alexander, assignor to Smith & Davis Mfg. Co., St. Louis, Mo. Crib. No. 1,423,663; July 25.
- Izen, Alexander, assignor to Smith & Davis Mfg. Co., St. Louis, Mo. Bed corner. No. 1,423,664; July 25.
- Izen, Alexander, assignor to Smith & Davis Mfg. Co., St. Louis, Mo. Bed corner. No. 1,422,665; July 25.
- Izen, Alexander, St. Louis, Mo. Bed. No. 1,440,152; Dec. 26.
- Izold, Andrew, Camp Meade, Md. Toilet case. No. 1,436,591; Nov. 21.
- Izzo, Bonaventuro, Paterson, N. J. Railway gate. No. 1,419,856; June 13.
- Izzo, Joseph A., et al. (See MacAskill, Daniel A., assignor.)
- Izzo, Salvatore, Rome, Italy, assignor to Rev. M. Priori, Indianapolis, Ind. Automatic lock. No. 1,417,529; May 30.
- J. & C. G. Bolinders Mekaniska Verkstads Aktiebolag. (See Helsing, Karl G. F., assignor.)
- J. E. M. Products Corporation. (See Wasserlein, Victor E., assignor.)
- Jabner, Louis, Jersey City, N. J. Clasp. No. 1,435,897; Nov. 14.
- Jaccard, Paul J., New York, N. Y. Safety razor. No. 1,427,686; Aug. 29.
- Jack, Alexander. (See Ennis, L., and Jack.)
- Jack, Alexander G. M. (See Hadfield, R. A., Jack, and Clerke.)
- Jack, Alexander G. M., Sheffield, England. Suspension transporter arrangement. No. 1,417,070; May 23.
- Jack, John, Glasgow, Scotland. Machine for drying and tarring road metal. No. 1,408,512; Mar. 7.
- Jackman, Charles W., Detroit, Mich., and M. M. Jackman, Orland, Ind. Rotary valve. No. 1,402,616; Jan. 3.
- Jackman, Harry S., St. Paul, Minn. Tightener for violin E strings. No. 1,433,376; Oct. 24.
- Jackman, Miles M. (See Jackman, Charles W. and M. M.)
- Jackson, Albert H., London, England. Advertising device. No. 1,435,474; Nov. 14.
- Jackson, Andrew O. (See Jackson, Thaddeus A., assignor.)
- Jackson, Arthur C., assignor to The Miller Lock Company, Philadelphia, Pa. Shoe-lace-tipping tool. No. 1,432,558; Oct. 17.
- Jackson, Charles E., Detroit, Mich. Wire-heating oven. No. 1,440,153; Dec. 26.
- Jackson, Corwill, Kalamazoo, Mich. Tamper. No. 1,431,808; Oct. 10.
- Jackson, Daniel D., et al., trustees. (See Estabrooke, W. L., and Jackson, assignors.)
- Jackson, Daniel D., Brooklyn, N. Y. Recovery of potash from cement mixtures. No. 1,415,572; May 9.
- Jackson, Daniel D., Brooklyn, N. Y. Obtaining potassium from natural potassium compounds. No. 1,417,919; May 30.
- Jackson, Floyd L. (See Knapp, F. D., and Jackson.)
- Jackson, Frank, Parsons, Kans. Plug. No. 1,411,031; Mar. 28.
- Jackson, Frank J., Waterloo, Iowa. Means for limiting capillary attraction between structural elements. No. 1,429,351; Sept. 19.
- Jackson, George P., Moore, Pa. Furnace. No. 1,437,182; Nov. 28.
- Jackson, Glenn W. (See Swan, J. B., Rogers, and Jackson.)
- Jackson, Graham H., Newark, N. J., assignor to Universal Tobacco Machine Co., New York, N. Y. Counting mechanism. No. 1,411,629; Apr. 4.
- Jackson, Granbery. (See Waller, R. H., and Jackson.)
- Jackson, Harry R., assignor of one-half to H. A. May, Chicago, Ill. Governing valve for internal-combustion motors. No. 1,437,423; Dec. 5.
- Jackson, Harry R., and H. A. May, Chicago, Ill. Governing valve for internal-combustion motors. No. 1,408,887; Mar. 7.
- Jackson, Harry R., assignor of one-half to H. A. May, Chicago, Ill. Automatic gasoline-shut-off valve. No. 1,425,656; Aug. 15.
- Jackson, Harvey F., Brooklyn, N. Y., assignor to L. R. Conwell, New York, N. Y. Advertising device. No. 1,438,440; Dec. 12.
- Jackson, James E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Channel-opening machine. No. 1,407,037; Feb. 21.
- Jackson, James O., Denver, Colo. Flash-light gun. No. 1,436,715; Nov. 28.
- Jackson, Jesse. (See Hamlin, L. R., and Jackson.)
- Jackson, John, St. Louis, Mo. Combined belt link and key-ring holder. No. 1,417,996; May 30.
- Jackson, John P., Washington, D. C. Tiebar and spacer. No. 1,436,345; Nov. 21.
- Jackson, Joseph D., Glasgow, Scotland. Caliper screw gauge. No. 1,436,260; Nov. 21.
- Jackson, Joseph G., assignor to Edward Katzinger Company, Chicago, Ill. Baking pan. No. 1,416,208; May 16.
- Jackson, Linda M., executrix. (See Crawford, Harvey F.)
- Jackson, Louis F., Starkville, Miss. Device for actuating pet cocks or valves. No. 1,427,819; Sept. 5.
- Jackson, Marie L., Bexhill, England. Removable stiffener for the inside portions of heels of boots and shoes. No. 1,435,068; Nov. 7.
- Jackson, Maunsell B., Jr., assignor to The Master-Valve Company, Limited, Toronto, Ontario, Canada. Rotary valve for internal-combustion motors. No. 1,410,315; Mar. 21.
- Jackson, Percy T., and G. F. Pickett, Bexley Heath, England. Mechanical toy. No. 1,427,295; Aug. 29.
- Jackson, Philip T., Toronto, Ontario, Canada. Humidifying attachment for radiators. No. 1,418,150; May 30.
- Jackson, Ralph G., Chester, Pa., assignor to Congoleum Company, Incorporated, New York, N. Y. Block printing machine. No. 1,409,862; Mar. 14.
- Jackson, Ralph G., Chester, Pa., assignor to Congoleum Company, Incorporated, New York, N. Y. Machine for splicing felts and fabrics. No. 1,437,312; Nov. 28.
- Jackson, Robert E. (See Jenkins, E. M., and Jackson.)
- Jackson, Robert E., Princeton, W. Va., and B. O. Yearwood, Toccoa, Ga., assignors to Locomotive Stoker Company. Locomotive stoker. No. 1,425,322; Aug. 8.
- Jackson, Simeon S., Boston, assignor, by mesne assignments, to The Stafford Company, Readville, Boston, Mass. Welt-replenishing mechanism for looms. No. 1,407,423; Feb. 21.
- Jackson, Simeon S., assignor, by mesne assignments, to The Stafford Company, Boston, Mass. Shuttle latch box for welt-replenishing looms. No. 1,434,211; Oct. 31.
- Jackson, Thaddeus A., assignor to A. O. Jackson, Brooklyn, N. Y. Machine for refinishing metal containers. No. 1,419,929; June 20.
- Jackson, Thomas, Lewisham, London, assignor to A. Ramsay, Folkestone, England. Marine-engine governor. No. 1,413,585; Apr. 25.
- Jackson, Thomas, Lewisham, London, assignor to A. Ramsay, Folkestone, England. Marine-engine governor. No. 1,413,586; Apr. 25.
- Jackson, Walter M., New York, N. Y. Slitting attachment for cigars. (Reissue.) No. 15,422; July 25.
- Jackson, William C. (See Diesel, C. J., and Jackson.)
- Jackson, William J., Detroit, Mich. Collapsible bath and dressing table. No. 1,427,598; Aug. 29.
- Jackson, William S., Ridgewood, N. J., assignor to H. B. Thurston, Pittsburgh, Pa. Low-water alarm. No. 1,406,024; Feb. 7.
- Jacob, Charles S., Elizabeth, N. J. Drawing instrument. No. 1,409,723; Mar. 14.
- Jacob, Edward H., West Chester, Pa. Method for the propagation and protection of mushroom spawn. No. 1,434,822; Nov. 7.
- Jacob, Ernst A. H., San Antonio, Tex. Feeder drum. No. 1,416,830; May 23.
- Jacob, Ernst A. H., San Antonio, Tex. Pump jack. No. 1,424,568; Aug. 1.
- Jacob, Thomas H., Wausau, Wis. Hillside lug. No. 1,410,255; Mar. 21.
- Jacob, Thomas H., assignor to Danielson Tool Co., Wausau, Wis. Pinion puller. No. 1,436,806; Nov. 28.
- Jacobi, Edward N. (See Briggs, S. F., and Jacobi.)
- Jacobi, Edward N., assignor to Briggs & Stratton Company, Milwaukee, Wis. Switch. No. 1,418,376; June 6.
- Jacobi, Edward N., assignor to Briggs & Stratton Company, Milwaukee, Wis. Switch construction. No. 1,437,659; Dec. 5.
- Jacobi, Edward N., assignor to Briggs & Stratton Company, Milwaukee, Wis. Instrument panel. No. 1,437,660; Dec. 5.
- Jacobs, Albert M., East Orange, N. J. Position indicator. No. 1,411,662; Apr. 4.
- Jacobs, Benjamin F., Boston, Mass. Set screw. No. 1,438,648; Dec. 12.
- Jacobs, Charles D. (See Trotman, Walter K., assignor.)
- Jacobs, Charles F., Yorba Linda, assignor of one-half to F. W. Conkey, Huntington Beach, Calif. Tool or implement. No. 1,412,348; Apr. 11.
- Jacobs, Clarence E., Detroit, Mich. Fan. No. 1,404,298; Jan. 24.
- Jacobs, Frederick A., Richmond Hill, N. Y. Tank-testing apparatus. No. 1,429,949; Sept. 26.
- Jacobs, George, Detroit, Mich. Tire. No. 1,424,360; Aug. 1.
- Jacobs, Isidor M., Kansas City, and W. Cramer, St. Louis, assignors to Truck, Tractor, and Manufacturing Company, St. Louis, Mo. Lock for movable parts. No. 1,415,354; May 9.
- Jacobs, Isidor M., Kansas City, and W. Cramer, St. Louis, assignors to Truck, Tractor, and Manufacturing Company, St. Louis, Mo. Belt cutter. No. 1,415,355; May 9.
- Jacobs, Isidor M., Kansas City, and W. Cramer, assignors to Truck, Tractor, and Manufacturing Company, St. Louis, Mo. Teeter totter. No. 1,426,082; Aug. 15.
- Jacobs, James F., Needmore, Ga. Railway crossing. No. 1,440,223; Dec. 26.
- Jacobs, James M. H., Dayton, assignor to The Mutual Furniture Manufacturing Company, Miamisburg, Ohio. Stepladder. No. 1,439,419; Dec. 19.
- Jacobs, Jesse P., Shelbyville, Tenn. Wheel for automobiles. No. 1,420,195; June 20.
- Jacobs, Joseph H., Miles City, Mont. Boot or shoe. No. 1,418,188; May 30.

- Jacobs, Joseph H., Denver, Colo. Pressure-cooker lock. No. 1,439,000; Dec. 19.
- Jacobs, Learchus H., Carthage, Ark. Hitch rack. No. 1,417,385; May 23.
- Jacobs, Lewis H., Battle Creek, Mich. Automobile wheel fender. No. 1,413,736; Apr. 25.
- Jacobs Manufacturing Company, The. (See Englund, Gustaf A., assignor.)
- Jacobs Manufacturing Company, The. (See Stoner, Louis E., assignor.)
- Jacobs, Morris, deceased, by S. Jacobs, administratrix, Brooklyn, N. Y. Lock nut. No. 1,423,545; Sept. 12.
- Jacobs, Nicholas W., Stanton, Nebr. Number plate for motor-vehicle fuel tanks. No. 1,423,938; July 25.
- Jacobs, St. Charles, Brooklyn, N. Y. Vehicle. No. 1,411,277; Apr. 4.
- Jacobs, St. Charles, Brooklyn, N. Y. Washing machine. No. 1,430,554; Oct. 3.
- Jacobs, Saly, administratrix. (See Jacobs, Morris.)
- Jacobs, William C., Clinton, Iowa. Handhole plate. No. 1,429,739; Sept. 19.
- Jacobsen, Era C., Oak Park, assignor, by mesne assignments, to American Steam Truck Company, Chicago, Ill. Fuel-burning apparatus. No. 1,432,464; Oct. 17.
- Jacobsen, Olaf A. E. (See Hempel, A. J. N., and Jacobsen.)
- Jacobsen, Oystein, Dayton, Ohio, assignor to The Duriron Company, Inc. Spray nozzle. No. 1,431,526; Oct. 10.
- Jacobsen, Oystein, Dayton, Ohio, assignor to The Duriron Company, Inc. Lubricated valve cock. No. 1,440,083; Dec. 26.
- Jacobsen, Richard S., assignor to Jacobsen & Schraeder, Incorporated, Chicago, Ill. Grading or screening materials. No. 1,403,326; Jan. 10.
- Jacobsen, Victor L., Cleveland, Ohio. Savings bank. No. 1,412,526; Apr. 11.
- Jacobsen & Schraeder, Incorporated. (See Jacobsen, Richard S., assignor.)
- Jacobson, Arthur F., Detroit, Mich. Permutation lock. No. 1,427,106; Aug. 29.
- Jacobson, Emil, Port Washington, N. Y., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,436,261; Nov. 21.
- Jacobson, Era C., assignor, by mesne assignments, to American Steam Truck Company, Chicago, Ill. Fuel-burning apparatus. (Reissue.) No. 15,281; Feb. 7.
- Jacobson, John N., Mansfield Center, Conn. Pliers. No. 1,435,131; Nov. 7.
- Jacobson, Peter G. (See Wahl, J. C., and Jacobson.)
- Jacobson, Sidney D., New York, N. Y. Stabilizing float. No. 1,405,036; Jan. 31.
- Jacobson, Sidney D., New York, N. Y. Attaching means for anti-skidding devices. No. 1,406,458; Feb. 14.
- Jacobsson, Axel T., Cleveland, Ohio. Lens mounting. No. 1,417,326; May 23.
- Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Method of and apparatus for operating steam-boiler economizers. No. 1,416,353; May 16.
- Jacoby, Benjamin. (See King, G. W. and C. B., Jacoby, Roush, and Holmes.)
- Jacoby, William L., Larchmont, N. Y., and R. M. Hopkins, Rutherford, N. J., assignors to American District Telegraph Company, New York, N. Y. Automatic signaling system for industrial establishments. No. 1,432,600; Oct. 17.
- Jacovitz, Leon. (See Bartle, G., Glickman, and Jacovitz.)
- Jacques, Elijah R., Bangor, Me. Downward-draft furnace. No. 1,403,787; Jan. 17.
- Jacques, George W. (See Eames, G. M., and Jacques.)
- Jacques, George W., Stratford, Conn., assignor to The Singer Manufacturing Company. Back gauge. No. 1,421,483; July 4.
- Jacques, George W., Stratford, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Duplex eyeletting machine. No. 1,425,016; Aug. 8.
- Jacques, George W., Stratford, Conn., assignor to The Singer Manufacturing Company. Fastener-feeding mechanism. No. 1,434,702; Nov. 7.
- Jacques, George W., Stratford, Conn., assignor to The Singer Manufacturing Company. Fastener-feed mechanism. No. 1,434,703; Nov. 7.
- Jacques, George W., Stratford, Conn., assignor to The Singer Manufacturing Company. Fastener-feed mechanism. No. 1,434,704; Nov. 7.
- Jacquet, Etienne. (See Sentou, C. A., and Jacquet.)
- Jacquet, Karl, Zurich, Switzerland. Current-collector contrivance. No. 1,426,388; Aug. 22.
- Jaek, Oscar. (See Jenny, G., and Jaek.)
- Jaek, Oskar. (See Bernhard, H., and Jaek.)
- Jaekle, Friedrich, and P. Mehlhorn, Freiburg, Germany. Manufacture of reinforcements for wooden poles, masts, etc., which are set in the ground and have been damaged by weather influences. No. 1,416,641; May 16.
- Jaekle, Friedrich, and P. Mehlhorn, Freiburg, Germany. Means for securing the sections of a mast or pole together. No. 1,420,430; June 20.
- Jaeger, Edmond, Paris, France. Periodical speed indicator. No. 1,413,278; Apr. 18.
- Jaeger, Eugene R., Santa Clara, Calif. Automobile curtain. No. 1,409,451; Mar. 14.
- Jaeger, Gebhard, Columbus, Ohio. Concrete-mixing machine. No. 1,414,648; May 2.
- Jaeger, Herman J., Weehawken, N. J., assignor to Jaeger Research Laboratories, Inc. Metallic filament lamp. No. 1,436,807; Nov. 28.
- Jaeger Research Laboratories, Inc. (See Jaeger, Herman J., assignor.)
- Jaeger, William, Philadelphia, Pa. Snap shade holder for electric sockets. No. 1,406,649; Feb. 14.
- Jaenichen, Louis, assignor to The Standard Computing Scale Company, Detroit, Mich. Weight indicator. No. 1,409,181; Mar. 14.
- Jaeschke, Ernst. (See v. Rauchfuss, K., and Jaeschke.)
- Jaffe, Harry, Chicago, Ill. Automobile radiator. No. 1,438,310; Dec. 12.
- Jaffe, Morris. (See Leutuch, Israel M., assignor.)
- Jagenburg, Eugene R., assignor to Crown Fruit & Extract Co., Inc., New York, N. Y. Fruit and vegetable cutting machine. No. 1,418,443; June 6.
- Jagenburg, Robert W., assignor to M. W. Bray, Utica, N. Y. Machine for making shingles. No. 1,415,649; May 9.
- Jager, Charles J., Company. (See Rogers, Charles O., assignor.)
- Jager, Frank, Chicago, Ill. Car door. No. 1,427,901; Sept. 5.
- Jager, Frank, Chicago, Ill. Car-door construction. No. 1,430,555; Oct. 3.
- Jager, Frank, Chicago, Ill. Grain door. No. 1,437,313; Nov. 28.
- Jager, Frank B., Northampton, Mass. Audit account book. No. 1,408,741; Mar. 7.
- Jager, George W. (See Sears, W. T., and Jager.)
- Jagerspacher, Carl, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Dyestuffs particularly adapted for calico printing. No. 1,437,758; Dec. 5.
- Jagger, Peter B., London, England. Molding and/or compacting plastic fluid, powdered, granular, or the like substances. No. 1,428,097; Sept. 5.
- Jagger, Peter B., London, England. Grinding and mixing and agitating machine and the like. No. 1,436,262; Nov. 21.
- Jahn, B., Manufacturing Company, The. (See Jahn, B., and Kahl, assignors.)
- Jahn, B., Manufacturing Company, The. (See Jahn, Berthold, assignor.)
- Jahn, Berthold, assignor to The B. Jahn Manufacturing Company, New Britain, Conn. Coin-controlled vending machine. No. 1,419,055; June 6.
- Jahn, Berthold, and E. E. Kahl, assignors to The B. Jahn Manufacturing Company, New Britain, Conn. Staple binder. No. 1,428,694; Sept. 12.
- Jahnke, Charles B. (See Hobart, F. G., and Jahnke.)
- Jahnke, Otto H. (See Orr, F. L., and Jahnke.)
- Jakob, Victor. (See Mizer, J. J., and Jakob.)
- Jakovleff, Alexis, assignor to H. M. Shirek, San Francisco, Calif. Automobile cradle. No. 1,425,859; Aug. 15.
- Jakovleff, Alexis, assignor to H. M. Shirek, San Francisco, Calif. Automobile cradle. No. 1,436,808; Nov. 28.
- Jakubiec, Joseph, Uhrichsville, Ohio. Combined safety razor and hair clipper. No. 1,436,960; Nov. 28.
- Jakubiec, Wojciech, Garfield, N. J. Mechanical toy. No. 1,427,296; Aug. 29.
- Jakubowski, Joseph S., Wilmington, Del. Vehicle wheel. No. 1,430,233; Sept. 26.
- Jakubowsky, Lucian, Dexter, N. Y. Phonograph repeating device. No. 1,404,774; Jan. 31.
- James, Charles E., and W. E. Smith, Waverley, near Sydney, New South Wales, Australia. Convertible furniture. No. 1,413,279; Apr. 18.
- James, Edwin R., and C. H. Adams, Reading, England. Hedge and like trimming apparatus. No. 1,426,989; Aug. 22.
- James, Frank, Cleveland, Ohio. Pneumatic flexible spiral conveyor. No. 1,412,285; Apr. 11.
- James, George L. D., Auckland, New Zealand. Economizer and decarbonizer for internal-combustion engines. No. 1,404,964; Jan. 31.
- James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Controller. No. 1,406,389; Feb. 14.
- James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,421,242; June 27.
- James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,421,243; June 27.
- James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,421,244; June 27.
- James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,421,244; June 27.
- James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,425,657; Aug. 15.
- James, Henry D., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of motor control. No. 1,435,238; Nov. 14.
- James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,438,649; Dec. 12.
- James, Herbert A., Jr., Wilmington, Del. Automobile lock. No. 1,402,864; Jan. 10.
- James, James M., Edgerton, W. Va. Dispensing device. No. 1,409,003; Mar. 7.

Alphabetical list of patentees—Continued.

- James, Jesse J., Washington, D. C. Vehicle. No. 1,440,012; Dec. 26.
- James, Joseph C., Antioch, Ill. Floral hanger. No. 1,418,801; June 6.
- James, Joseph H., Pittsburgh, assignor to C. P. Byrnes, trustee, Sewickley, Pa. Flotation agent. No. 1,439,107; Dec. 19.
- James Manufacturing Company. (See Olson, John B., assignor.)
- James, Russel E., Burkburnett, Tex. Headlight. No. 1,406,025; Feb. 7.
- James, Thomas J., assignor to T. Thompson, Philadelphia, Pa. Retaining device for a riveting set. No. 1,425,482; Aug. 8.
- James, William. (See Meyer, S. M., and James.)
- James, William, Boston, Mass. End support for traveling bags. No. 1,429,098; Sept. 5.
- James, William T., Chicago, Ill. Dump-car body. No. 1,403,084; Jan. 10.
- Jameson, Thomas C., Gonzales, Calif. Irrigation gate. No. 1,403,248; Jan. 10.
- Jameson, William, Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Apparatus for making strand fabric. (Reissue.) No. 15,349; May 9.
- Jameson, Earl F., Brainerd, Minn. Phonograph-record cabinet. No. 1,432,559; Oct. 17.
- Jameson, John L. (See Flink, John, assignor.)
- Jamison, Frank L., Pittsburgh, Pa. Ingot-casting device. No. 1,425,658; Aug. 15.
- Jamison, Hermon E., assignor of one-fourth to C. W. Mitchell, Willmore, Ky. Train-control mechanism. No. 1,416,470; May 16.
- Jamison, Richard H. (See Stotler, T. W., and Jamison.)
- Jamison, Robert W., Mitchell, S. Dak. Compound walking beam for well-drilling rigs. No. 1,417,604; May 30.
- Jandasek, Joseph, assignor to Paige-Detroit Motor Car Company, Detroit, Mich. Tractor. No. 1,415,356; May 9.
- Janes, Joseph, Somerville, Mass., assignor of one-half to G. C. Cox, Rochester, N. Y. Phonograph cabinet. No. 1,414,086; Apr. 25.
- Janesville Machine Company, The. (See Krotz, Alvaro S., assignor.)
- Janeszewski, Kasimir, assignor to Sterling Tool & Manufacturing Company, Milwaukee, Wis. Jack for motorcycles. No. 1,403,690; Jan. 17.
- Janin, John V., Seattle, Wash. Brace and bit therefor. No. 1,428,099; Sept. 5.
- Janis, Theodore T., Chicago, Ill. Templet-filing jaws. No. 1,415,573; May 9.
- Janke, Henry P., Toledo, Ohio, assignor, by mesne assignments, to The Toledo Standard Commutator Company. Commutator-segments manufacture. No. 1,429,352; Sept. 19.
- Janke, Louis F., Madison, Wis. Floating-hub metal wheel. No. 1,428,034; Sept. 5.
- Jankus, Jack C., assignor to Woman's Institute of Domestic Arts & Sciences, Inc., Scranton, Pa. Pulp mold. No. 1,428,437; Sept. 5.
- Jannek, Josef. (See Mittasch, A., Jannek, and Wietzel.)
- Jannell, William, West Park, assignor to The Domestic Electric Company, Cleveland, Ohio. Wire-insulating stripper. No. 1,424,482; Aug. 1.
- Janney, Peyton R., assignor to Mills Baking Company, Detroit, Mich. Icing machine. No. 1,418,715; June 6.
- Janney, Robert E. L., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Car coupling. No. 1,404,965; Jan. 31.
- Janofsky, Max, assignor of one-half to I. Small, Washington, D. C. Bottle capper. No. 1,439,366; Dec. 19.
- Jansen, Andries W., Geldrop, Netherlands. Apparatus for weaving bicycle and auto canvas. No. 1,423,427; July 18.
- Jansen, Jesse, jr., Fresno, Calif. Brake-rod guide. No. 1,433,823; Oct. 31.
- Jansen, Ole M., Seattle, Wash. Tool chuck. No. 1,430,556; Oct. 3.
- Jansky, Charles J., Two Rivers, Wis. Automatic grave closure. No. 1,418,716; June 6.
- Janson, George W., Brooklyn, assignor to The Western Union Telegraph Company, New York, N. Y. Call-box contact mechanism. No. 1,416,642; May 16.
- Janssen, Ben H. (See Mayer, Henry A., assignor.)
- Janssen, Gerhard R., Manson, Iowa. Radiator-cover-operating means. No. 1,404,527; Jan. 24.
- Janssens, Louis, Brussels, Belgium. Perforating mechanism. No. 1,413,164; Apr. 18.
- Jansson, Arvid, Brooklyn, N. Y. Map meter. No. 1,405,417; Feb. 7.
- Jansson, Bennett G., Saugus, assignor to C. C. Blake, Brookline, Mass. Making insulated fastenings. No. 1,435,069; Nov. 7.
- Jantz, Gustave H., Wyoming, Ohio. Wringer. No. 1,408,807; Mar. 7.
- Janzow, Charles R., assignor to Venus Manufacturing Company, Minneapolis, Minn. Garment for children. No. 1,403,030; Jan. 10.
- Jaques, Arthur. (See West, J. H., and Jaques.)
- Jaques, Emily U., Visalia, Calif. Amusement device. No. 1,423,428; July 18.
- Jaques, Fernando O., Jr., Providence, assignor of one-half to H. C. Peckham, Cranston, R. I. Means for making castellated nuts. No. 1,414,417; May 2.
- Jaques, Fernando O., Jr., Providence, assignor of one-half to H. C. Peckham, Cranston, R. I. Castellated nut. No. 1,425,591; Aug. 15.
- Jaray, Paul, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Cooling device for aerial vehicles. No. 1,414,418; May 2.
- Jaray, Paul, assignor to Firm Luftschiffbau Zeppelin, Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Speed indicator. No. 1,428,780; Sept. 12.
- Jardin, Albert B., Philadelphia, Pa. Closure for garment pockets. No. 1,419,735; June 13.
- Jardine, Robert, assignor to Rich Tool Company, Chicago, Ill. Making valve tappets. No. 1,435,925; Nov. 21.
- Jardine, Robert, assignor to Rich Tool Company, Chicago, Ill. Gas-engine valve. No. 1,438,597; Dec. 12.
- Jarecki, Mathias V., Columbus, Nebr. Tractor wheel. No. 1,424,909; Aug. 8.
- Jarmolowsky, Abraham, Brooklyn, N. Y. Pipe-threading tool. No. 1,428,035; Sept. 5.
- Jaroski, Stanley A., Holyoke, Mass. Combination container. No. 1,411,437; Apr. 4.
- Jaroslaw's Erste Glimmerwaren-Fabrik in Berlin. (See Hepner, Moritz, assignor.)
- Jarry, Frederick. (See Taylor, S., and Jarry.)
- Jarry, Frederick, assignor of one-half to S. Taylor, New Bedford, Mass. Slub catcher. No. 1,422,271; July 11.
- Jaruga, Zygmunt, Amsterdam, Ohio. Cheese press. No. 1,434,343; Oct. 31.
- Jarvis, Eino, Toronto, Ontario, Canada. Device for cutting or resurfacing metal. No. 1,430,739; Oct. 3.
- Jarvis, Herbert C., Portland, Oreg., assignor to Pacific Car & Foundry Co., Seattle, Wash. Pivoted-bunk logging car. No. 1,415,357; May 9.
- Jarvis, Oscar, Ketchikan, Alaska. Fish joint for connecting railway rails. No. 1,411,278; Apr. 4.
- Jary, Rudolph, Chicago, Ill. Aeroplane. No. 1,412,286; Apr. 11.
- Jasgur, Samuel, New York, N. Y. Fabric-fastening device. No. 1,406,390; Feb. 14.
- Jaskowiak, Frank, St. Cloud, Minn. Bench or floor dog. No. 1,422,272; July 11.
- Jasperson, John J., Randwick, near Sydney, Australia, New South Wales. Expanding reamer. No. 1,422,208; July 11.
- Jassen, Bern, New York, N. Y. Automobile mirror. No. 1,410,186; Mar. 21.
- Jasus, John. (See Bednar, L., and Jasus.)
- Jaworski, Paul, Bismarckhutte, Upper Silesia. Coking chamber for generators. No. 1,422,206; July 11.
- Jay, Webb, et al. (See Edwards, William A., assignor.)
- Jaynes, Alfonso L., Buffalo, N. Y. Card-index cabinet. No. 1,407,656; Feb. 21.
- Jaynes, Charles B., Birmingham, Ala. Roofing. No. 1,418,377; June 6.
- Jaynes, Claude F., Seattle, Wash. Locking device for turnbuckles. No. 1,411,279; Apr. 4.
- Jeammot-Leyrit, René A., Billancourt, near Paris, France. Automatically-clamping tongs for grasping plates and dishes. No. 1,422,215; July 11.
- Jean, Wilfrid, Lowell, Mass. Automobile heater. No. 1,425,483; Aug. 8.
- Jeanes, Charles L., North Reading, Mass. Motor-truck body. No. 1,434,705; Nov. 7.
- Jeanmaire, Edward, Linden, Calif. Spraying device. No. 1,412,468; Apr. 11.
- Jeanmaire, Edward, Gazelle, Calif. Ventilating milk-can lid. No. 1,438,376; Dec. 12.
- Jeanette Glass Company. (See Ambler, Isaac, assignor.)
- Jedlicka, Gustav F., et al. (See Finney, James J., assignor.)
- Jefferies-Norton Corporation. (See Norton, Fred E., assignor.)
- Jeffers, Carl H., Kent, Ohio. Locomotive stoker. No. 1,423,221; July 18.
- Jeffers, Clarence E., assignor to H. C. Marmon, Indianapolis, Ind. Instrument board. No. 1,407,751; Feb. 28.
- Jefferson, Alister K., Strathfield, New South Wales, Australia. Wire bale tie. No. 1,409,724; Mar. 14.
- Jefferson, Benjamin H., and W. I. Kirk, assignor to Lyon & Healy, Chicago, Ill. Pedal device for pianos and other purposes. No. 1,412,870; Apr. 18.
- Jefferson Forge Products Co., The. (See Wilber, Carl L., assignor.)
- Jeffery, Joseph A., assignor to Jeffery-Dewitt Company, Detroit, Mich. Ceramic insulating material. No. 1,409,953; Mar. 21.
- Jeffery, Joseph A., assignor to The Jeffery-Dewitt Company, Detroit, Mich. Ceramic insulating material. No. 1,438,598; Dec. 12.
- Jeffery, Joseph A., assignor to The Jeffery-Dewitt Company, Detroit, Mich. Refractory ware. No. 1,438,599; Dec. 12.
- Jeffery-Dewitt Company. (See Jeffery, Joseph A., assignor.)
- Jeffrey Manufacturing Company, The. (See Anthony, Carl H., assignor.)
- Jeffrey Manufacturing Company, The. (See Ball, Albert, assignor.)

- Jeffrey Manufacturing Company, The. (See Coseo, Frederick C., assignor.)
- Jeffrey Manufacturing Company, The. (See Holmes, Morris P., assignor.)
- Jeffrey Manufacturing Company, The. (See Hopkins, Edward L., assignor.)
- Jeffrey Manufacturing Company, The. (See Kenton, Clyde L., assignor.)
- Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)
- Jeffrey Manufacturing Company, The. (See Snider, Charles M., assignor.)
- Jeffrey Manufacturing Company, The. (See Wadsworth, Frank L. O., assignor.)
- Jeffries, Charles M. (See Smith, John F., assignor.)
- Jeffries, William T. (See Mershon, J. H., and Jeffries.)
- Jeffs, Arthur W., New York, N. Y. Woman's hand bag. No. 1,404,528; Jan. 24.
- Jeidell, Julius, Chicago, Ill. Spring wheel. No. 1,426,741; Aug. 22.
- Jelenko, J. F., & Co. (See Aderer, Hugo, assignor.)
- Jelinek, Charles. (See Hopkins, S. B., and Jelinek.)
- Jenckes Knitting Machine Company. (See Miller, Max C., assignor.)
- Jenckes Spinning Company. (See Hall, Frederick C., assignor.)
- Jenkins, Alexander F., Baltimore, Md. Portable oxyacetylene welding generator. No. 1,410,316; Mar. 21.
- Jenkins, Alexander F., Baltimore, Md. Automatic metal feeding device for torches. No. 1,412,655; Apr. 11.
- Jenkins, Alexander F., Baltimore, Md. Welding metals. No. 1,412,656; Apr. 11.
- Jenkins, Amanda, Winamac, Ind. Window screen. No. 1,425,484; Aug. 8.
- Jenkins, Brooks O., and J. F. Traylor, assignors, by mesne assignments, to Craig Manufacturing Co., Ensley, Ala. Breather-plug check valve. No. 1,432,187; Oct. 17.
- Jenkins, C. Francis. (See Ogle, John N., assignor.)
- Jenkins, Charles F., Washington, D. C. Cooling device for motion-picture machines. No. 1,408,203; Feb. 28.
- Jenkins, Charles F., Washington, D. C. Motion-picture device. No. 1,411,359; Apr. 4.
- Jenkins, Charles F., assignor to Discrola, Inc., Washington, D. C. Motion-picture carrier. No. 1,409,004; Mar. 7.
- Jenkins, Charles F., assignor to Discrola, Inc., Washington, D. C. Motion-picture mirror of cylindrical type. No. 1,413,333; Apr. 18.
- Jenkins, Charles S. (See Bovard, W. H., Barker, and Jenkins.)
- Jenkins, David R., Oakland, Calif. Convertible open and closed vehicle top. No. 1,407,278; Feb. 21.
- Jenkins, Edwin M., and R. E. Jackson, Priceton, W. Va. Flue-cleaning apparatus. No. 1,416,209; May 16.
- Jenkins, Frank H., Georgetown, Ill. Combination lunch box. No. 1,411,032; Mar. 28.
- Jenkins, Henry C., London, England. Electrolytic cell. No. 1,410,681; Mar. 28.
- Jenkins, Howard C., assignor to E. A. Parkford, Los Angeles, Calif. Magnetic lamp holder. No. 1,405,221; Jan. 31.
- Jenkins, Howard M., Pittsburgh, Pa. Pumping system. No. 1,435,239; Nov. 14.
- Jenkins, John E. (See Richmond, Walter, assignor.)
- Jenkins, Paul K., Maysville, Okla. Broom-corn breaker and tabler. No. 1,419,262; June 13.
- Jenkins, Thomas A., Jersey City, N. J. Surfacing container for tracing cloth. No. 1,439,627; Dec. 19.
- Jenkins, William P., and W. D. Woolley, Tredegar, England. Account sheet. No. 1,428,592; Sept. 12.
- Jenkinson, Ross E., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Mandrel. No. 1,431,118; Oct. 3.
- Jenks, George F., et al., trustees. (See Eidman, Frank L.)
- Jenks & Muir Manufacturing Co. (See Coda, Christopher F., assignor.)
- Jenner, James W., Louisville, Ky. Wiping device for engraving plates. No. 1,440,084; Dec. 26.
- Jennette, Charles L., Norlina, N. C. Hanger for car doors. No. 1,437,759; Dec. 5.
- Jennings, Arthur B., New York, N. Y. Air compressor. No. 1,421,484; July 4.
- Jennings, Arthur L., and J. F. Dolan, Perth Amboy, N. J. Removal of the impurities from tin ore before the ore is smelted. No. 1,435,303; Nov. 14.
- Jennings, Irving C., assignor to Nash Engineering Company, South Norwalk, Conn. Float-controlled valve-operating mechanism. No. 1,409,550; Mar. 14.
- Jennings, James M. (See Howard, F. A., and Jennings.)
- Jennings, James M., Elizabeth, assignor to Standard Oil Company, Bayonne, N. J. Stable foam for preventing the evaporation of stored liquids. No. 1,423,719; July 25.
- Jennings, James M., Elizabeth, assignor to Standard Oil Company, Bayonne, N. J. Foam covering for preventing the evaporation of stored liquids. No. 1,423,720; July 25.
- Jennings, James M., Elizabeth, assignor to Standard Oil Company, Bayonne, N. J. Foam covering for preventing the evaporation of stored liquids. No. 1,423,721; July 25.
- Jennings, Ode D. (See Barson, Harry W., assignor.)
- Jennings, Oliver S., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control of single-phase motors. No. 1,433,725; Oct. 31.
- Jennings, Philip S., Oneonta, assignor of one-half to L. B. Rainey, Gadsden, Ala. Rim-joint connection for vehicle wheels. No. 1,410,187; Mar. 21.
- Jennings, Richard, et al. (See Musebeck, George E., assignor.)
- Jennings, William A., Raytown, Mo. Suspension thrust-resisting attachment for presses. No. 1,417,997; May 30.
- Jennings, William A., Raytown, Mo. Cylinder-grinding attachment for lathes. No. 1,425,592; Aug. 15.
- Jennings, William F. (See Chew, L., and Jennings.)
- Jennison, Harry G. (See Margetts, Walter T., assignor.)
- Jenny, Georges, and O. Jaeck, assignors to Swiss Ferment Company, Ltd., Basel, Switzerland. Degumming textile materials. No. 1,430,523; Sept. 26.
- Jenny, Richard. (See Schreier, E., and Jenny.)
- Jénot, Leon, La Garenne Colomnes, France. Folding spring mattress. No. 1,438,243; Dec. 12.
- Jensen, Anders. (See Henriksen, R. E., and Jensen.)
- Jensen-Bearlund, Hans P., Lisbon, Portugal. Dump wagon. No. 1,414,954; May 2.
- Jensen, Carl C., assignor to Clamp Nail Company, Chicago, Ill. Nail. No. 1,413,737; Apr. 25.
- Jensen, Carl M., assignor, by mesne assignments, of one-half to L. D. Frazee, Oakland, Calif. Damper. No. 1,408,204; Feb. 28.
- Jensen, Constan, Los Angeles, Calif. Airplane. No. 1,411,630; Apr. 4.
- Jensen, Gunnar, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Temperature-measuring device. No. 1,411,033; Mar. 28.
- Jensen, Henry, Chicago, Ill. Toy. No. 1,410,188; Mar. 21.
- Jensen, Howard C., Eureka, Calif. Egg cooker. No. 1,433,824; Oct. 31.
- Jensen, Julian B., Alameda, Calif. Pump. No. 1,406,868; Feb. 14.
- Jensen, Louis, assignor to United Autographic Register Co., Chicago, Ill. Paper-feeding mechanism. No. 1,407,424; Feb. 21.
- Jensen, Louis, assignor to United Autographic Register Co., Chicago, Ill. Paper-feeding mechanism for typewriting machines. No. 1,436,397; Nov. 21.
- Jensen, Louis, assignor to United Autographic Register Co., Chicago, Ill. Paper-feeding mechanism for typewriting machines. No. 1,436,398; Nov. 21.
- Jensen, Milton O., assignor of one-half to R. Fuchs, Chicago, Ill. Spring clamp. No. 1,409,551; Mar. 14.
- Jensen, Niels C. (See Trukenbrodt, J., and Jensen.)
- Jensen, Peter C., St. Paul, Minn. Refrigerator counter. No. 1,434,544; Nov. 7.
- Jensen, Peter F., Bassett, Nebr. Fire escape. No. 1,431,001; Oct. 3.
- Jensen, Peter L. (See Pridham, E. S., and Jensen.)
- Jensen, Peter W., Princeton, Minn. Halter. No. 1,410,573; Mar. 28.
- Jensen, William G., Bartlesville, Okla. Pump jack. No. 1,415,037; May 9.
- Jensenius, Herman A., Philadelphia, Pa. Accumulator safety valve. No. 1,406,026; Feb. 7.
- Jess, Alfred A. (See Breuer, Peter, assignor.)
- Jeppson, George N., Worcester, Mass., assignor to Norton Company. Antislipping tile. No. 1,402,296; Jan. 3.
- Jerabek, Charles, assignor to L. Rothschild, Philadelphia, Pa. Auto tire tube carrier. (Reissue.) No. 15,383; June 13.
- Jerdone, Francis, Jr., assignor to The Willys-Overland Company, Toledo, Ohio. Automatic take-up device. No. 1,413,535; Apr. 18.
- Jerdone, Francis, Jr., assignor to The Willys-Overland Company, Toledo, Ohio. Automatic take-up device. No. 1,421,783; July 4.
- Jerdone, Francis, Jr., assignor to The Willys-Overland Company, Toledo, Ohio. Automatic take-up device. No. 1,421,784; July 4.
- Jernberg, Carl R., assignor to Standard Forgings Company, Chicago, Ill. Apparatus for making drop-forged steel car wheels. No. 1,408,702; Mar. 7.
- Jernberg, Carl R., assignor to Standard Forgings Company, Chicago, Ill. Draft-gear barrel and making same. No. 1,412,785; Apr. 11.
- Jernberg, Carl R., M. A. Metzger, Chicago, Ill., and E. Larson, Indiana Harbor, Ind., assignors to Standard Forgings Company, Chicago, Ill. Attachment for draft rigging. No. 1,435,964; Nov. 21.
- Jerome, Horace M., assignor to B. L. Schmidt Company, Davenport, Iowa. Ice-shaving machine. No. 1,426,742; Aug. 22.
- Jerram, Arthur E., J. Gouldbourn, and F. Ricks, Leicester, England, assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Fastener-inserting machine. No. 1,426,389; Aug. 22.
- Jerram, Arthur E., J. Gouldbourn, and F. Ricks, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over machine. No. 1,426,390; Aug. 22.
- Jerrell, Floyd S., Audubon, assignor of one-half to J. W. Collins, Woodlynne, N. J. Billboard. No. 1,433,207; Oct. 24.
- Jervis, George J., New York, N. Y. Child's block. No. 1,430,557; Oct. 3.

Alphabetical list of patentees—Continued.

- Jervis, Harry, Weirton, W. Va. Automatic gas-conduit control means. No. 1,416,831; May 23.
- Jeschke, Richard, Charlottenburg, assignor to Phenoleum G. m. b. H., Berlin, Germany. Flooring material and making same. No. 1,421,086; June 27.
- Jesdale, Charles, assignor of one-half to M. F. Lunow, Chicago, Ill. Box. No. 1,438,180; Dec. 12.
- Jeska, William H. F., St. Paul, Minn. Window catch. No. 1,425,593; Aug. 15.
- Jespersen, Thomas, Neenah, Wis., assignor, by mesne assignments, to Lincoln Trust Company, New York, N. Y. Recovering waste paper. No. 1,424,411; Aug. 1.
- Jessen, Charles C., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Electrical fuse head and manufacturing same. No. 1,407,157; Feb. 21.
- Jessen, John A., Sandwich, assignor to McCulloch Manufacturing Company, Boston, Mass. Timer. No. 1,403,554; Jan. 17.
- Jessen, John A., Winthrop, assignor to The Palmer Electric & Manufacturing Company, Boston, Mass. Service switch. No. 1,417,920; May 30.
- Jessup, George W. Jr., Newton, Mass. Internal-combustion engine. No. 1,406,391; Feb. 14.
- Jessup, Leo B., et al. (See Kight, William K., assignor.)
- Jessup, Stephen C. (See McFall, Frank H., assignor.)
- Jessup, William H., Mount Kisco, N. Y. Tensioning means for cloth-winding machines. No. 1,431,462; Oct. 10.
- Jester, Daniel C., Coleman, Ga. Valve. No. 1,406,869; Feb. 14.
- Jester, Marvin H., Philadelphia, Pa. Plaster-board support. No. 1,423,939; July 25.
- Jester, Marvin H., deceased, Philadelphia, Pa.; G. A. Ramsay, administrator. Building-construction clip. No. 1,434,352; Oct. 31.
- Jeter, John W., Kansas City, Mo. Clamping device for beams and columns. No. 1,408,301; Feb. 28.
- Jett, George C., Watertown, assignor, by mesne assignments, of two-fifths to W. H. Stiemke, Milwaukee, Wis. Differential transmission mechanism. No. 1,423,940; July 25.
- Jett, George C., assignor, by mesne assignments, of two-fifths to W. H. Stiemke, Milwaukee, Wis. Differential mechanism. No. 1,423,941; July 25.
- Jett, George H., New York, N. Y. Electric mooring and towing gear apparatus or system. No. 1,433,079; Oct. 24.
- Jette, Archie N., Anaconda, Mont. Roof construction for reverberatory furnaces. No. 1,416,716; May 23.
- Jette, Archie N., Anaconda, Mont. Reverberatory furnace. No. 1,435,304; Nov. 14.
- Jewel Electrical Instrument Company. (See Miller, John H., assignor.)
- Jewel Phonoparts Company. (See Blood, Burr B., assignor.)
- Jewell, Archibald J., St. Louis, Mo. Process and apparatus for the production of barium peroxide. No. 1,438,377; Dec. 12.
- Jewell, Charles M., Tulare, Calif. Loose-leaf ledger. No. 1,428,377; Sept. 5.
- Jewell, Harry B., and L. L. Minvielle, New Iberia, La. Crate fastener. No. 1,431,809; Oct. 10.
- Jewell, James M., assignor of one-half to C. B. Weyandt, Detroit, Mich. Compression pump. No. 1,414,283; Apr. 25.
- Jewett, Harold H., Puente, Calif. Camp utensil. No. 1,423,612; July 25.
- Jfanger, Eduard, Uster, Switzerland. Tool for cutting screw threads in work pieces. No. 1,408,205; Feb. 28.
- Jicha, Mathew, Bridgeport, Ohio. Rail brace. No. 1,407,865; Feb. 28.
- Jicha, Mathew, Bridgeport, Ohio. Railway-rail mounting. No. 1,434,823; Nov. 7.
- Jimerson, Francis A. (See Parsons, F. W., and Jimerson.)
- Jimerson, Francis A., Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Bit-chuck retainer. No. 1,412,469; Apr. 11.
- Jimerson, Francis A., Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Built-up crank shaft. No. 1,428,847; Sept. 12.
- Jimerson, Francis A., Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Pneumatic-hose coupling. No. 1,430,558; Oct. 3.
- Jinks, Edward C. (See McGhee, James W., assignor.) (Reissue.)
- Jinks, William H., et al. (See Kight, William K., assignor.)
- Jinks and Morgan Proprietary Limited. (See Morgan, Albert E., assignor.)
- Jirka, Joseph F. (See Kovar, F. T., and Jirka.)
- Joachim, Charles A., and W. F. Killian, Oshkosh, Wis. Deflector. No. 1,439,001; Dec. 19.
- Jobe, John S., Rochester, J. Dixon, Monaca, and A. E. Arrott, Pittsburgh, assignors to United States Sanitary Manufacturing Company, Pittsburgh, Pa. Method of and apparatus for coating castings. No. 1,412,057; Apr. 11.
- Joberty, Robert A., Winnipeg, Manitoba, Canada. Nut lock. No. 1,410,812; Mar. 28.
- Jobke, August F., Pittsburgh, Pa. Focusing device. No. 1,404,440; Jan. 24.
- Jobski, Otto H., assignor to The Standard Parts Company, Cleveland, Ohio. Wheel. No. 1,402,511; Jan. 3.
- Jobski, Otto H., assignor to The Standard Parts Company, Cleveland, Ohio. Rim. No. 1,407,545; Feb. 21.
- Jobski, Otto H., assignor to The Standard Parts Company, Cleveland, Ohio. Rim. No. 1,409,005; Mar. 7.
- Jobski, Otto H., assignor to The Standard Parts Company, Cleveland, Ohio. Rim. No. 1,422,715; July 11.
- Jobski, Otto H., assignor to The Standard Parts Company, Cleveland, Ohio. Wire-spoke wheel. No. 1,426,480; Aug. 22.
- Jobski, Otto H., assignor to The Standard Parts Company, Cleveland, Ohio. No. 1,430,656; Oct. 3.
- Jobski, Otto H., assignor to The Standard Parts Company, Cleveland, Ohio. Rim. No. 1,432,188; Oct. 17.
- Jobson, Francis S., Mentone, Ala. Burglar gun. No. 1,422,865; July 18.
- Jochum, George A. (See Butler, E. M., and Jochum, assignors.)
- Joel, Alfred, Zurich, Switzerland. Spring device for vehicles. No. 1,412,349; Apr. 11.
- Joel, Alfred, Zurich, Switzerland. Spring device for vehicles. No. 1,433,115; Dec. 5.
- Joel, Alfred, & Co. (See Mickle, Karl, assignor.)
- Joerger, Frank. (See Shulman, H., and Joerger.)
- Joerger, Frank, and H. Shulman, Brooklyn, assignors to Baker Brush Company, New York, N. Y. Paintbrush. No. 1,431,810; Oct. 10.
- Jofeh, John, London, England. Gramophone and like sound-reproducing instrument. No. 1,427,211; Aug. 29.
- Joffe, Philip, New York, N. Y. Key ring. No. 1,415,934; May 16.
- Johanknecht, Frederick A., Birmingham, Ala. Motor vehicle. No. 1,403,249; Jan. 10.
- Johannes, Edward E., and R. D. Dunkerton, Devon, Kans. Disk truck. No. 1,422,362; July 11.
- Johannesson, Sigvald. (See Hewett, B. H. M., and Johannesson.)
- Johansen, Ernst M., assignor to The Atlantic Refining Company, Philadelphia, Pa. Treating oil. No. 1,438,764; Dec. 12.
- Johansen, Harry C., Chicago, Ill., assignor to Sullivan Machinery Company, Compressor. No. 1,404,175; Jan. 17.
- Johansen, Harry C., Chicago, Ill., assignor to Sullivan Machinery Company. Lubricating mechanism. No. 1,417,059; May 23.
- Johansen, Harry C., Chicago, Ill., assignor to Sullivan Machinery Company. Drill-feeding mechanism. No. 1,418,080; May 30.
- Johanson, Claus M. (See Ehrman, B., Johanson, and Peterson.)
- Johanson, Edwin, Troy, Idaho. Oil can. No. 1,407,657; Feb. 21.
- Johanson, Emil G., Rockford, Ill. Reducing gearing. No. 1,427,599; Aug. 29.
- Johanson, George K. V., Stockholm, Sweden. Gas meter. No. 1,417,998; May 30.
- Johanson, Sara. (See Ehrman, B., Johanson, and Peterson.)
- Johansson, Carl E., Eskilstuna, Sweden. Measuring set. No. 1,435,525; Nov. 14.
- Johansson, Carl E., Eskilstuna, Sweden. Adjustment device for the measuring spindles of micrometers, measuring machines, and the like. No. 1,431,583; Oct. 10.
- Johansson, Edwin A., assignor to Trollhättans Elektroturmiska Aktiebolag, Stockholm, Sweden. Device for putting pipe conduits for gas in and out of connection with one another. No. 1,436,174; Nov. 21.
- Johansson, Ernst A., Strangnas, Sweden. Tool holder. No. 1,416,832; May 23.
- John, George W. (See Booth, Lemuel E., assignor.)
- John, Griffith, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Safety device for conveyers. No. 1,430,906; Oct. 3.
- John, Harry A., assignor of one-half to W. Hohn, Donora, Pa. Resilient wheel. No. 1,435,852; Nov. 14.
- John, Hermon, Tacoma, Wash. Composition for making briquettes. No. 1,407,279; Feb. 21.
- John, Robert, assignor, by mesne assignments, to Daylight Film Corporation, New York, N. Y. Photograph positive and negative. No. 1,417,328; May 23.
- John, Stuart O., assignor to The New Zealand Flusher Company Limited, Wellington, New Zealand. Device for measuring out water. No. 1,407,752; Feb. 28.
- Johns, Charles, Chicago, Ill. Producing finished sections from iron and steel scrap. No. 1,425,971; Aug. 15.
- Johns, Chilion B., Edensburg, Pa. Sand-pipe heater. No. 1,423,429; July 18.
- Johns, George M., St. Louis, Mo., assignor, by mesne assignments, to The Industrial Process Engineering Company. Distillation of material carrying a percentage of volatile matter. No. 1,423,527; July 25.
- Johns, George M., St. Louis, Mo., assignor, by mesne assignments, to The Industrial Process Engineering Company. Material-feeding mechanism. No. 1,426,648; Aug. 22.
- Johns, Stanley S., Baltimore, Md. Repeating attachment for disk-record photographs. No. 1,438,116; Dec. 5.
- Johns, Stuart O., Taiville, Wellington, New Zealand. Flushing valve. No. 1,402,771; Jan. 10.
- Johns, Stuart O., Island Bay, Wellington, assignor to The New Zealand Flusher Company Limited, Wellington, New Zealand. Construction of rotary fan or turbine wheel. No. 1,427,391; Aug. 29.

Alphabetical list of patentees—Continued.

- Johns, William, Passaic, N. J. License-plate holder. No. 1,432,560; Oct. 17.
- Johns-Manville Incorporated. (See Berdan, Jacob M., assignor.)
- Johns-Manville Incorporated. (See Christenson, Frank, assignor.)
- Johns-Manville, Inc. (See Carson, Clarence, assignor.)
- Johns-Manville, Incorporated. (See Craighead, Magruder, assignor.)
- Johns-Manville Incorporated. (See Walsh, Joseph H., assignor.)
- Johns-Manville, Incorporated. (See Wilson, James, assignor.)
- Johns-Pratt Company, The. (See Cole, Robert C., assignor.)
- Johnsen, Sigfred, Menominee, Mich., assignor of one-third to J. A. Bell, Clintonville, Wis., and one-third to J. H. Vernet, Menominee, Mich. Duplex piston ring. No. 1,425,017; Aug. 8.
- Johnsen, Tobias, North Bay, Ontario, Canada. Portable drying apparatus. No. 1,428,593; Sept. 12.
- Johnson, Adolph A., assignor of one-fifth to S. B. Hanes and one-fifth to D. A. Ricks, Hanes, N. C. Attachment for cone-winding machines. No. 1,424,100; July 25.
- Johnson, Adolph T., Turtle Lake, N. D. Repair link for chains. No. 1,403,905; Jan. 17.
- Johnson, Adrian, Bradford, Pa. Protecting shoe for washboilers. No. 1,407,066; Feb. 21.
- Johnson, Albert A., Mount Holly, N. J. Feed mechanism for woodworking machines. No. 1,428,036; Sept. 5.
- Johnson, Albert E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for applying coatings. No. 1,410,574; Mar. 28.
- Johnson, Albert E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-attaching machine. No. 1,426,391; Aug. 22.
- Johnson, Albert L., Troy, N. Y. Fire extinguisher. No. 1,409,725; Mar. 14.
- Johnson, Albert W. (See Phelps, E. B., Stevenson, and Baker, assignors.)
- Johnson, Albin J., assignor of one-half to C. Hanson, Duluth, Minn. Combination tool. No. 1,428,848; Sept. 12.
- Johnson, Alexander K., Nashville, Tenn. Fork or paddle. No. 1,432,108; Oct. 17.
- Johnson, Allan E., Montreal, Quebec, Canada. Box-car unloader. No. 1,420,431; June 20.
- Johnson, Allen D. W., Anoka, Minn. Grain bin. No. 1,419,142; June 13.
- Johnson, Allen D. W., Anoka, Minn. Silo roof. No. 1,425,860; Aug. 15.
- Johnson, Alvia E. (See Cole, J. W., and Johnson.)
- Johnson, Alvin L., Worcester, Mass., assignor to Two Part Rim Co. Inc. Cutting over metal rims. No. 1,423,222; July 18.
- Johnson, Anders I. (See Johnson, Carl F. and A. I.)
- Johnson, Anton J., Tracy, Minn. Sill-bolt socket. No. 1,434,121; Oct. 31.
- Johnson, Anton R., St. Paul Park, Minn. Hose connection. No. 1,410,405; Mar. 21.
- Johnson, Aron, Brooklyn, N. Y. Automatic feeder. No. 1,417,741; May 30.
- Johnson, Aron, Woodhaven, N. Y. Plunger drum. No. 1,420,844; June 27.
- Johnson, Arthur A., Washington, D. C., assignor to J. Q. Sherman, Dayton, Ohio. Typewriting machine. No. 1,413,407; Apr. 18.
- Johnson, Arthur A., assignor, by mesne assignments, to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,415,241; May 9.
- Johnson, Arthur A., Washington, D. C., assignor to Underwood Typewriter Company. Typewriting machine. No. 1,421,946; July 4.
- Johnson, Arthur A., Washington, D. C., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,440,085; Dec. 26.
- Johnson, Arthur J. (See Tingwall, L. G., and Johnson.)
- Johnson, Arthur L. (See Knoble, William B., assignor.)
- Johnson, Arthur L. (See Peterson, Peter C., assignor.)
- Johnson, Arthur W., Milwaukee, assignor to Bradley Knitting Company, Delavan, Wis. Means for shaping and drying fabric articles. No. 1,425,969; Aug. 15.
- Johnson, August, Deep Creek, Wash., and O. Landholm, Wallace, Idaho. Nonskid and traction device. No. 1,408,004; Feb. 28.
- Johnson, Austin C., assignor to Production Meter Company, Chicago, Ill. Indicating and recording apparatus. No. 1,422,207; July 11.
- Johnson Automatic Sealer Co. (See Quick, Brunnell W., assignor.)
- Johnson Automobile Lock Co. (See Johnson, Colvin L., assignor.)
- Johnson Automobile Sheet Metal Works. (See Scott, E. Harrison, assignor.)
- Johnson, Axel, Oakland, Calif. Fuel economizer. No. 1,412,208; Apr. 11.
- Johnson, Axel, Oakland, assignor to American Can Company, San Francisco, Calif. Method and apparatus for cutting and applying gasket liners to can ends. No. 1,405,592; Feb. 7.
- Johnson, Axel, Oakland, Calif., assignor to American Can Company. Can-closing machine. No. 1,435,305; Nov. 14.
- Johnson, Bernard F., Jersey City, N. J. Attachment for milling machines. No. 1,406,870; Feb. 14.
- Johnson, Bernard L., Vancouver, British Columbia, Canada. Log-carrying barge. No. 1,426,990; Aug. 22.
- Johnson, Bernard P., and R. Schroeder, Cincinnati, Ohio. Toy. No. 1,430,811; Oct. 3.
- Johnson, Bertha K. (See Christensen, Hans, assignor.)
- Johnson, Brenda B. A., London, England. Production and projection of photographic records. No. 1,425,775; Aug. 15.
- Johnson, Carl, San Francisco, Calif. Resilient wheel. No. 1,424,101; July 25.
- Johnson, Carl A., Worcester, Mass. Meat chopper. No. 1,439,312; Dec. 19.
- Johnson, Carl E., Winchester, assignor to Lamb & Nash Company, Boston, Mass. Machine for cutting sheets or layers. No. 1,424,309; Aug. 1.
- Johnson, Carl E., Chautauk, Kans. Battery grip. No. 1,422,765; July 11.
- Johnson, Carl E., Los Angeles, Calif., assignor to U. S. Industries, Inc. Dynamo-electric-machine construction. No. 1,428,889; Sept. 12.
- Johnson, Carl E., and N. E. Brown, Los Angeles, Calif., assignors to U. S. Electrical Manufacturing Co. Brazed rotor construction. No. 1,433,622; Oct. 31.
- Johnson, Carl F. and A. I., Laboit, S. D. Tire-chain tightener and lock. No. 1,407,753; Feb. 28.
- Johnson, Carl J. and J. E., Los Angeles, Calif. Safety device for bathtubs. No. 1,405,222; Jan. 31.
- Johnson, Carl M. (See Crouse, H. L., and Johnson.)
- Johnson, Carl O. (See Bergholz, A. F., and Johnson.)
- Johnson, Carl W., Onaway, Mich., assignor of one-half to K. Hodge, Poughkeepsie, N. Y. Steering wheel. No. 1,431,665; Oct. 10.
- Johnson, Carter J., Green Bay, Wis. Wire tightener for concrete forms. No. 1,438,650; Dec. 12.
- Johnson, Charles, Minneapolis, Minn. Lumber cut-off machine. No. 1,427,297; Aug. 29.
- Johnson, Charles, Highland Park, and F. G. Meyer, Detroit, Mich. Steering mechanism. No. 1,415,095; May 9.
- Johnson, Charles A., Tacoma, Wash. Ignition-controlling means for automobiles. No. 1,437,896; Dec. 5.
- Johnson, Charles B., Chicago, Ill. Hoist. No. 1,412,527; Apr. 11.
- Johnson, Charles B., Chicago, Ill. Window-sash holding device and lock. No. 1,434,545; Nov. 7.
- Johnson, Charles C. (See Buchanan, C., and Johnson.)
- Johnson, Charles D., Worcester, Mass. Machine for hardening and tempering wire. No. 1,409,452; Mar. 14.
- Johnson, Charles E., et al., trustees. (See Warren, J. B., and Brechting, assignors.)
- Johnson, Charles E., et al., trustees. (See Warren, John R., assignor.)
- Johnson, Charles E., Muskegon, Mich. Machining out-of-round piston-ring castings. No. 1,405,517; Feb. 7.
- Johnson, Charles E., Gillespie, Ill. Vacuum sampler for tanks of refined oil and gasoline. No. 1,416,354; May 16.
- Johnson, Charles G. (See Bryant, E. J., and Johnson.)
- Johnson, Charles H., Colony, Kans. Animal trap. No. 1,413,536; Apr. 18.
- Johnson, Charles H., assignor of one-half to A. E. Miller, Sacramento, Calif. Hammer. No. 1,411,918; Apr. 4.
- Johnson, Charles M., Avalon, Pa. Alloy steel. No. 1,420,707; June 27.
- Johnson, Charles M., Avalon, Pa. Alloy steel. No. 1,420,708; June 27.
- Johnson, Charles N., Chicago, Ill. Window weight. No. 1,402,865; Jan. 10.
- Johnson, Charles L., Seattle, Wash. Amusement vehicle. No. 1,409,381; Mar. 14.
- Johnson, Clare L. (See Beatty, H. B., and Johnson.)
- Johnson, Clarence S., assignor of one-half to H. E. Snook, Frederick, Md. Bottle capper. No. 1,408,354; Feb. 28.
- Johnson, Clifton B., Beaver, Pa. Premelting scrap for open-hearth furnaces. No. 1,439,961; Dec. 26.
- Johnson Coin Counting Machine Co. (See Baur, Hugo J., assignor.)
- Johnson, Colvin L., assignor to Johnson Automobile Lock Co., Chicago, Ill. Transmission lock. No. 1,408,888; Mar. 7.
- Johnson, Colvin L., assignor to Johnson Automobile Lock Co., Chicago, Ill. Automobile lock. No. 1,414,023; Apr. 25.
- Johnson, Colvin L., assignor to Johnson Automobile Lock Co., Chicago, Ill. Armored cable. No. 1,414,024; Apr. 25.
- Johnson, David C. (See Darville, Merton A., assignor.)
- Johnson, David E., and T. A. Madsen, assignors to National Lock Company, Rockford, Ill. Method and apparatus for making headed machine parts. No. 1,422,274; July 11.
- Johnson, Edmond E., Maidenhead, England. Means for stabilizing moving bodies. No. 1,437,183; Nov. 28.
- Johnson, Edward E., St. Paul, Minn. Deep-well pump. No. 1,438,492; Dec. 12.
- Johnson, Edward E., St. Paul, Minn. Deep-well pump. No. 1,438,493; Dec. 12.
- Johnson, Edward E., St. Paul, Minn. Gearing for deep-well pumps. No. 1,438,494; Dec. 12.
- Johnson, Edward E., St. Paul, Minn. Pumping mechanism. No. 1,438,495; Dec. 12.

Alphabetical list of patentees—Continued.

- Johnson, Edwin, assignor to Elektriska Aktiebolaget Eck, Partille, Sweden. Automatic circuit-breaking device. No. 1,434,344; Oct. 31.
- Johnson, Emil, San Francisco, Calif. Combination tire carrier and tool box. No. 1,419,456; June 13.
- Johnson, Eric, Seattle, Wash. Band-saw machine. No. 1,416,355; May 16.
- Johnson, Eric J., Chicago, Ill. Tire tool. No. 1,431,002; Oct. 3.
- Johnson, Erick L., Detroit, Minn. Potato-seed-cutting machine. No. 1,438,496; Dec. 12.
- Johnson, Ernest G., Waverley, Mass., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Low-voltage circuit breaker. No. 1,431,956; Oct. 17.
- Johnson, Ernest N., Winnipeg, Manitoba, Canada. Tie plate for rails. No. 1,422,983; July 18.
- Johnson, Ernest W., Christine, N. Dak. Agricultural implement. No. 1,412,615; Apr. 11.
- Johnson, Everard L., Patchogue, N. Y. Flash-light gun. No. 1,434,438; Nov. 7.
- Johnson, Everard L., Patchogue, N. Y. Flash-light apparatus. No. 1,439,821; Dec. 26.
- Johnson Fan Co. (See Johnson, John E., assignor.)
- Johnson Fare Box Company. (See Baur, Hugo J., assignor.)
- Johnson Fare Box Company. (See Tanner, Arnold J., assignor.)
- Johnson Fare Box Co. (See Thompson, Ernest H., assignor.)
- Johnson, Francis E., Jr., Orange, N. J., assignor to The M. W. Kellogg Company. Anticorrosion expansion joint. No. 1,434,952; Nov. 7.
- Johnson, Frank, Aurora, Ill. Air pump. No. 1,438,918; Dec. 12.
- Johnson, Frank, Aurora, Ill. Vise grip. No. 1,439,822; Dec. 26.
- Johnson, Frank A., Aurora, Ill. Air pump. No. 1,436,175; Nov. 21.
- Johnson, Frank A., New Haven, Conn., assignor to Signature Company, New York, N. Y. Multiple-writing machine. No. 1,428,331; Sept. 5.
- Johnson, Frank E., Greensburg, Pa. Coating metal articles. No. 1,407,067; Feb. 21.
- Johnson, Frank E., Chicago, Ill. Automobile. No. 1,424,412; Aug. 1.
- Johnson, Fred A., St. Paul, Minn. Bucket and hoisting apparatus. No. 1,424,910; Aug. 8.
- Johnson, Fred L., Concord, N. H. Oiling system for explosive engines. No. 1,416,643; May 16.
- Johnson, Fred L., Binghamton, N. Y., assignor to Mid-East Specialty Company, Inc. Bag. No. 1,415,450; May 9.
- Johnson, Frederick H. (See Kemp R., and Johnson.)
- Johnson, Frederick I., assignor to M. W. Johnson, Warren, R. I. Pipe clamp. No. 1,418,650; June 6.
- Johnson, George, Brier Hill, Pa. Agitating and dumping bucket. No. 1,424,102; July 25.
- Johnson, George D., deceased; L. Johnson, administratrix, Chicago, Ill. Computing device. No. 1,405,847; Feb. 7.
- Johnson, George E. (See Nassoiy, E. F., and Johnson.)
- Johnson, George F., Springfield, Ill. Variable electrostatic condenser. No. 1,420,485; June 20.
- Johnson, George M., Jeannette, Pa. Feeding mechanism for mine cars. No. 1,408,088; Feb. 28.
- Johnson, George M., Jeannette, Pa. Tripping mechanism. No. 1,408,089; Feb. 28.
- Johnson, George M., Jeannette, Pa. Safety device for mine cages. No. 1,425,203; Aug. 8.
- Johnson, George M., Jeannette, Pa. Mine cage. No. 1,433,459; Oct. 24.
- Johnson, George W., Gallatin, Mo. Auxiliary chain fastener. No. 1,424,569; Aug. 1.
- Johnson, Glen E., Spokane, Wash. Safety appliance for door locks. No. 1,439,552; Dec. 19.
- Johnson, Gottfrid. (See Vons, John, assignor.)
- Johnson, Harold, Brooklyn, N. Y. Auxiliary window sill. No. 1,416,561; May 16.
- Johnson, Harold R., Cranston, R. I. Pencil. No. 1,422,984; July 18.
- Johnson, Harold R., Edgewood, assignor to Oscar B. Johnson Company, Cranston, R. I. Lingerie clasp. No. 1,424,103; July 25.
- Johnson, Harry W. (See Eddy, Russell H., assignor.)
- Johnson, Henry. (See Goranson, Hjalmar.)
- Johnson, Henry, Winston-Salem, N. C., assignor to The Southern Iron & Steel Corporation. Furnace. No. 1,417,829; May 30.
- Johnson, Henry, Portland, Oreg. Micrometer adapter. No. 1,428,781; Sept. 12.
- Johnson, Henry E., Fort Bragg, Calif. Glass-cutting square. No. 1,415,650; May 9.
- Johnson, Henry G., assignor to Summit Thread Company, East Hampton, Conn. Universal winder head. No. 1,414,514; May 2.
- Johnson, Henry O., Virginia, Minn. Wrench. No. 1,409,863; Mar. 14.
- Johnson, Henry V., St. Paul, Minn. Automatic timer for automobiles. No. 1,416,833; May 23.
- Johnson, Herbert, New York, assignor of one-half to W. H. White, Brooklyn, N. Y. Spring-equalizer device for vehicles. No. 1,430,381; Sept. 26.
- Johnson, Herbert L., Yarmouth, Me. Finger grip for violin bows. No. 1,435,926; Nov. 21.
- Johnson, Herbert S., Nuneaton, England. Internal-combustion turbine. No. 1,421,087; June 27.
- Johnson, Herluf G., Portland, Oreg. Key ring. No. 1,402,072; Jan. 3.
- Johnson, Hilding J., Salt Lake City, Utah. Lamp. No. 1,408,513; Mar. 7.
- Johnson, Hilding J., Salt Lake City, Utah. Gun. No. 1,419,968; June 20.
- Johnson, Hilmer. (See Danielson, Albin, assignor.)
- Johnson, Ira, Chicago, Ill. Automobile truck. No. 1,410,921; Mar. 28.
- Johnson, Howard A., Norfolk, Va. Brake mechanism. No. 1,433,825; Oct. 31.
- Johnson, Isaac R., New York, N. Y. Automobile signal. No. 1,412,657; Apr. 11.
- Johnson, Isaac R., New York, N. Y. Direction signal. No. 1,431,811; Oct. 10.
- Johnson, J. M., Chicago, and W. G. Gottschall, deceased, by H. H. Gottschall, administratrix, assignors to Hart, Schaffner & Marx, Chicago, Ill. Cloth-treating machine. No. 1,410,256; Mar. 21.
- Johnson, James H., assignor of forty-nine per cent to A. L. Smith, Kansas City, Mo. Portable kitchenette. No. 1,407,158; Feb. 21.
- Johnson, James H., Kansas City, Mo., assignor of forty-nine per cent to A. L. Smith, Eudora, Kans. Collapsible bed. No. 1,435,398; Nov. 14.
- Johnson, James M., Mobile, Ala. Coal-pushing device. No. 1,411,105; Mar. 28.
- Johnson, James P., Cleveland Heights, Ohio. Gear and screw cutting mechanism. No. 1,406,985; Feb. 21.
- Johnson, John, East Alton, Ill. Washing machine. No. 1,425,204; Aug. 8.
- Johnson, John, New York, N. Y. Corner bead. No. 1,430,508; Sept. 26.
- Johnson, John A., Leavenworth, Kans. Wrench. No. 1,413,121; Apr. 18.
- Johnson, John A., and J. P. Thompson, Leavenworth, Kans. Theft-preventing device for vehicles. No. 1,438,709; Dec. 12.
- Johnson, John D., assignor to Johnson Power Transmission Company, Seattle, Wash. Differential mechanism. No. 1,425,970; Aug. 15.
- Johnson, John E. (See Johnson, Carl J. and J. E.)
- Johnson, John E., De Kalb, assignor to Johnson Fan Co., Chicago, Ill. Disconnectible fan for automobiles. No. 1,427,687; Aug. 29.
- Johnson, John E., De Kalb, Ill. Transmission for automobiles. No. 1,429,882; Sept. 19.
- Johnson, John E., and C. H. Oslund, assignors to The O & J Machine Company, Worcester, Mass. Bottle-testing machine. No. 1,433,284; Oct. 24.
- Johnson, John G., St. Louis, Mo. Hoisting machine. No. 1,417,386; May 23.
- Johnson, John G., assignor of one-half to J. R. Kiely, Tacoma, Wash. Compressor. No. 1,436,263; Nov. 21.
- Johnson, John G., assignor of one-half to J. R. Kiely, Tacoma, Wash. Fan belt. No. 1,438,600; Dec. 12.
- Johnson, John O., White Bear Lake, Minn. Snowplow. No. 1,419,263; June 13.
- Johnson, John O., Q., Modesto, Calif. Motor-starting device. No. 1,422,063; July 4.
- Johnson, John R., assignor to The Ingersoll Milling Machine Company, Rockford, Ill. Drum-type continuous-milling machine. No. 1,414,812; May 2.
- Johnson, Jokum. (See Ovren, John E., assignor.)
- Johnson, Jonas, Ramsay, Mich. Pocketknife. No. 1,422,363; July 11.
- Johnson, Joseph, Lebanon, Pa. Chain-link-forming device. No. 1,405,785; Feb. 7.
- Johnson, Joseph, Sandon, British Columbia, Canada. Windlass. No. 1,410,016; Mar. 21.
- Johnson, Joseph A., Blue Earth, Minn. Hay-rack lift. No. 1,423,328; July 18.
- Johnson, Kenneth S., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical coil. No. 1,424,726; Aug. 1.
- Johnson, Kenneth S., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission system. No. 1,432,863; Oct. 24.
- Johnson, Kenneth S., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,435,240; Nov. 14.
- Johnson, Lane, Ingram, Pa. Cot. No. 1,427,476; Aug. 29.
- Johnson, Lawrence E., assignor, by mesne assignments, to M. S. Johnson, Melrose, Mass. Safety car block. No. 1,403,166; Jan. 10.
- Johnson, Lawrence T., Buffalo, N. Y. Lifting jack. No. 1,418,651; June 6.
- Johnson, Lorenzo, Ririe, Idaho. Gate opening and closing mechanism. No. 1,421,088; June 27.
- Johnson, Louis H., Dalton, Mo. Hen's nest. No. 1,433,460; Oct. 24.
- Johnson, Louis V., Fort Worth, Tex. Device for boring engine cylinders. No. 1,406,871; Feb. 14.
- Johnson, Louise, administratrix. (See Johnson, George D.)
- Johnson, M. M. Company, The. (See Brown, Lucius A., assignor.)
- Johnson, Manfred J. (See Bristol, W. H., and Johnson.)
- Johnson, Manfred J., Naugatuck, assignor to The Bristol Company, Waterbury, Conn. Synchronized apparatus. No. 1,431,666; Oct. 10.

- Johnson Manufacturing Company, The. (See Lamb, C. G., and Waldvogel, assignors.)
- Johnson, Marshall A., Dayton, Wash. Locking device. No. 1,420,926; June 27.
- Johnson, Mary L. E., et al. (See Camelo, Nicholas, assignor.)
- Johnson, Mary W. (See Johnson, Frederick I., assignor.)
- Johnson, Mattie S. (See Johnson, Lawrence E., assignor.)
- Johnson, Morrison R., Braymer, Mo. Nonskid chain. No. 1,423,564; July 25.
- Johnson, Neal M., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Cutting apparatus. No. 1,424,133; July 25.
- Johnson, Nels. (See Hess, J. J., and Johnson.)
- Johnson, Nels J., Wallingford, Iowa. Cement-post mold. No. 1,407,196; Feb. 21.
- Johnson, Ole, and P. Nordang, Tacoma, Wash. Iron or steel plate tightener. No. 1,434,345; Oct. 31.
- Johnson, Omar, Laramie, Wyo. Locomotive-engineer's seat. No. 1,423,855; July 25.
- Johnson, Orin, and C. Neuman, Menasha, Wis. Tire. No. 1,424,824; Aug. 8.
- Johnson, Orville C., Aurora, Ill. Door. No. 1,412,871; Apr. 18.
- Johnson, Oscar H. (See Pollard, G. T., and Johnson.)
- Johnson, Oscar R., Company. (See Johnson, Harold R., assignor.)
- Johnson, Otto, Freeland, Mich. Fence. No. 1,430,382; Sept. 26.
- Johnson, Paul E., Chicago, Ill. Therapeutic lamp. No. 1,403,119; Jan. 10.
- Johnson, Paul W., assignor of one-third to O. Erickson, Tacoma, Wash. Steering stabilizer for automobiles. No. 1,435,898; Nov. 14.
- Johnson, Peter B., Seattle, Wash. Thermostat. No. 1,439,897; Dec. 26.
- Johnson, Peter F., Oakland, Calif. Hammer gauge. No. 1,419,567; June 13.
- Johnson, Philip C., Chicago, Ill. Mandolin attachment for pianos. No. 1,415,574; May 9.
- Johnson, Philip H., Beckenham, England. Means of suspension of vehicles. No. 1,404,966; Jan. 31.
- Johnson, Philip H., Old Charlton, assignor to Roadless Traction Limited, London, England. Means of suspension of vehicles. (Reissue.) No. 15,288; Feb. 21.
- Johnson Power Transmission Company. (See Johnson, John D., assignor.)
- Johnson, Ray W., Chicago, Ill. Antitheft spare-tire device. No. 1,434,492; Nov. 7.
- Johnson, Robert, New Bedford, Mass. Calipers. No. 1,410,189; Mar. 21.
- Johnson, Robert A. (See Fancher, C. J., and Johnson.)
- Johnson, Robert A., and C. J. Fancher, Brattleboro, Vt., assignors to The National Acme Company, Cleveland, Ohio. Feed collet and making the same. No. 1,433,890; Oct. 31.
- Johnson, Robert C., Leicester, England. Cards for playing games. No. 1,410,922; Mar. 28.
- Johnson, Robert G., Los Angeles, Calif. Sheet-music holder. No. 1,406,872; Feb. 14.
- Johnson, Robert H., Washington, D. C. Pump. No. 1,427,740; Aug. 29.
- Johnson, Robert W., Pittsburgh, Pa., assignor to Roberts and Schaefer Company, Chicago, Ill. Picking screen. No. 1,431,667; Oct. 10.
- Johnson, Rolly A., Los Angeles, Calif. Chain-link assembler. No. 1,406,740; Feb. 14.
- Johnson, Roy R. (See Brown, J. S., and Johnson.)
- Johnson, Roy W. (See Gauger, F. A., and Johnson.)
- Johnson Service Co. (See Hofstad, Nels, assignor.)
- Johnson Service Company. (See Fortier, Charles L., assignor.)
- Johnson, Smith M., Middlefield, Ohio. Hand tool for fastening steel pall tops. No. 1,435,853; Nov. 14.
- Johnson, Smith M., Middlefield, Ohio. Wire twister. No. 1,435,854; Nov. 14.
- Johnson, Stonewall, Sullivan, Ill. Rim tool. No. 1,420,927; June 27.
- Johnson, Stuart P., Washington, D. C., assignor to N. D. Baker, Secretary of War, trustee. Grenade thrower or gun. No. 1,412,017; Apr. 4.
- Johnson, Theodore G., Kansas City, Mo. Duster. No. 1,437,145; Nov. 28.
- Johnson, Thomas H., Philadelphia, Pa. Game. No. 1,427,156; Aug. 29.
- Johnson, Thomas J. (See Nordmark, Herman, assignor.)
- Johnson, Thomas J., Norman, Okla. Rain gauge. No. 1,407,068; Feb. 21.
- Johnson, Tomlinson F., jr., Atlanta, Ga. Pole grab for insulator changers. No. 1,432,561; Oct. 17.
- Johnson, Ulysses E. G., Pittsfield, Mass. Wheel puller. No. 1,412,058; Apr. 11.
- Johnson, Walter A., Rochester, assignor to Pioneer Manufacturing Company, Albert Lea, Minn. Bug exterminator. No. 1,415,358; May 9.
- Johnson, Walter A., Rochester, assignor to Pioneer Manufacturing Company, Albert Lea, Minn. Potato-bug exterminator. No. 1,415,359; May 9.
- Johnson, Walter E., Chicago, Ill. Pin. No. 1,408,206; Feb. 28.
- Johnson, Will F., Harvard, Nebr. Cow-tail holder. No. 1,413,587; Apr. 25.
- Johnson, William A., Yonkers, N. Y. Expression device for sound-producing instruments. No. 1,408,514; Mar. 7.
- Johnson, William A., Yonkers, N. Y., assignor of one-third to B. K. Bucknam, White Plains, and one-third to R. L. Bucknam, New York, N. Y. Picture-film reel. No. 1,412,005; Apr. 4.
- Johnson, William A., Chicago, Ill. Folding table. No. 1,432,465; Oct. 17.
- Johnson, William B., Atlanta, Ga. Making bread. No. 1,438,441; Dec. 12.
- Johnson, William C. (See Robinson, Daniel C., assignor.)
- Johnson, William G., Guthrie, Okla. Traction attachment for vehicle wheels. No. 1,437,106; Nov. 28.
- Johnson, William J., Creston, Iowa. Sieve. No. 1,421,245; June 87.
- Johnson, William W., Cleveland, Ohio. Counterboring tool. No. 1,408,947; Mar. 7.
- Johnson, Woolsey M., Hartford, Conn. Metallurgy of tin. No. 1,436,961; Nov. 28.
- Johnson, Xa D., Toledo, Ohio. Scraping tool. No. 1,402,166; Jan. 3.
- Johnson & Johnson. (See Clark, Arthur W., assignor.)
- Johnson & Johnson. (See Simmons, Bert G., assignor.)
- Johnston, Albert W. (See Baker, John C., assignor.)
- Johnston, Alexander, assignor to The North British Rubber Company Limited, Edinburgh, Scotland. Fabric used in the manufacture of balloons and dirigible airships. No. 1,407,197; Feb. 21.
- Johnston, Andrew. (See Gibson, William E. F., assignor.)
- Johnston, Arthur B., et al. (See Bronson, Fred L., assignor.)
- Johnston, Carlton A., New Rockford, N. Dak. Pipe tongs. No. 1,433,623; Oct. 31.
- Johnston, Carlton A., New Rockford, N. Dak. Pipe grip. No. 1,433,624; Oct. 31.
- Johnston, Charles F., San Francisco, Calif. Piston ring. No. 1,411,360; Apr. 4.
- Johnston, Clarence S., Glendive, Mont. Oil can. No. 1,418,576; June 6.
- Johnston, David A. (See Johnstone, Jackson F., and D. A. Johnston.)
- Johnston, Edward A., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Magneto drive. No. 1,409,006; Mar. 7.
- Johnston, Edward A., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Tractor control. No. 1,419,264; June 13.
- Johnston, Edward A., Chicago, and C. W. Mott, Berwyn, Ill., assignors, by mesne assignments, to International Harvester Company. Power cultivator. No. 1,422,985; July 18.
- Johnston, Edward A., Chicago, Ill., assignor to International Harvester Company. Harrow-angling device. No. 1,433,013; Oct. 24.
- Johnston, Frank B., New York, N. Y., assignor to American Safety Device Company. Combined scaffold bench and anchor. No. 1,437,593; Dec. 5.
- Johnston, Frank H., Buffalo, N. Y. Piano. No. 1,432,338; Oct. 17.
- Johnston, Genevieve. (See Johnston, Horace G., assignor.)
- Johnston, George W., St. Joseph, Mo. Apparatus for compressing air. No. 1,420,845; June 27.
- Johnston, Grace L., Brooklyn, N. Y. Grape juice. No. 1,427,902; Sept. 5.
- Johnston, Grace L., Brooklyn, N. Y. Grape-juice product. No. 1,427,903; Sept. 5.
- Johnston, Gustave V., Chicago, Ill., assignor, by mesne assignments, to The Elyria Iron and Steel Company. Butt-welded thin-walled tubing. No. 1,435,306; Nov. 14.
- Johnston, Harry B. (See Burns, Walter W., assignor.)
- Johnston, Harry B., Seattle, Wash. Wrist connection for pistons. No. 1,409,954; Mar. 21.
- Johnston, Harry B., Seattle, Wash. Piston and piston ring. No. 1,418,802; June 6.
- Johnston, Harry B., Seattle, Wash. Piston and piston ring. No. 1,418,931; June 6.
- Johnston, Harry B., Seattle, Wash. Piston and connecting rod. No. 1,419,736; June 13.
- Johnston, Harry B., Seattle, Wash. Piston and piston ring. No. 1,419,857; June 13.
- Johnston, Harry B., Seattle, Wash. Piston and piston ring. No. 1,422,273; July 11.
- Johnston, Harry B., Seattle, Wash. Piston and piston ring. No. 1,424,200; Aug. 1.
- Johnston, Hjalmar, Duluth, Minn. Automatic wrench. No. 1,428,546; Sept. 12.
- Johnston, Horace G., assignor to G. Johnston, Corsicana, Tex. Gas producer. No. 1,412,118; Apr. 11.
- Johnston, Howard E., et al. (See Bronson, Fred L., assignor.)
- Johnston, Howard H., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Resistor. No. 1,406,393; Feb. 14.
- Johnston, Howard H., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,412,528; Apr. 11.
- Johnston, Howard H., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,416,033; May 16.
- Johnston, Howard H., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,433,726; Oct. 31.

Alphabetical list of patentees—Continued.

- Johnston, Howard H., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,435,241; Nov. 14.
- Johnston, Howard H., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system and apparatus. No. 1,437,107; Nov. 28.
- Johnston, Howard M., assignor to Massey-Harris Company, Limited, Toronto, Ontario, Canada. Endless carrier. No. 1,418,577; June 6.
- Johnston, James, assignor of one-half to W. J. O'Phee, St. Catharines, Ontario, Canada. Tire chain. No. 1,439,553; Dec. 19.
- Johnston, James B., assignor of one-sixth to F. M. Sheridan and one-sixth to B. L. Sheridan, Paola, Kans. Pivot mounting. No. 1,409,007; Mar. 7.
- Johnston, James G., Jr., Chicago, Ill., assignor to Warren Featherbone Company, Three Oaks, Mich. Display stand for ribbons and the like. No. 1,415,242; May 9.
- Johnston, John, New Haven, Conn., assignor to Western Electric Company, Incorporated, New York, N. Y. Heating device. No. 1,432,864; Oct. 24.
- Johnston, John F., and G. W. Bulley, assignors to The Miller Rubber Company, Akron, Ohio. Forming hard-rubber articles. No. 1,435,526; Nov. 14.
- Johnston, Levi A. (See Norris, D. I., and Johnston.)
- Johnston, Percy L. G., Nottingham, England. Reinforced-concrete construction. No. 1,410,923; Mar. 28.
- Johnston, Peter D. (See Strom, Gustav, assignor.)
- Johnston, Richard A., assignor to Barron G. Collier Inc., New York, N. Y. Frame for advertising cards. No. 1,424,570; Aug. 1.
- Johnston, Richard L., and J. S. Wallner, assignors to Bergman-Koropp & Co., Inc., Chicago, Ill. Decorative plant product. No. 1,405,786; Feb. 7.
- Johnston, Robert E., Congo, W. Va. Means for preventing oil-tank fires. No. 1,417,605; May 30.
- Johnston, Robert J., Kansas City, Mo. Wall-board structure. No. 1,435,121; Nov. 7.
- Johnston, Robert T., Scotch Plains, N. J., assignor to R. Hoe and Co., New York, N. Y. Plate finishing and cooling machine. No. 1,409,182; Mar. 14.
- Johnston, Roy B., Hamilton, Ontario, Canada, assignor, by mesne assignments, to International Harvester Company, Chicago, Ill. Release hitch. No. 1,419,265; June 13.
- Johnston, Samuel E., Edinburgh, Scotland. Fastening device for wearing apparel and the like. No. 1,425,485; Aug. 8.
- Johnston, Walter S., Detroit, Mich. Tire. No. 1,410,475; Mar. 21.
- Johnston, William R., assignor to Wm. R. Johnston Mfg. Co., Chicago, Ill. Windshield wing for automobiles. No. 1,429,433; Sept. 19.
- Johnston, Wm. R., Mfg. Co. (See Johnston, William R., assignor.)
- Johnstone, Frederick W., Murrumburrah, New South Wales, Australia. Spring for motor road vehicles. No. 1,414,813; May 2.
- Johnstone, Fredrick W., Murrumburrah, New South Wales, Australia. Shock absorber for automobiles. No. 1,437,146; Nov. 28.
- Johnstone, Jackson F., Boston, and D. A. Johnston, Melrose, Mass. Child's vehicle. No. 1,414,515; May 2.
- Johnstone, Robert M., Roselle Park, N. J., assignor to Cameron Machine Company, Brooklyn, N. Y. Winding mechanism. No. 1,408,742; Mar. 7.
- Johnstone, Robert M., Roselle Park, N. J., assignor to Cameron Machine Company, Brooklyn, N. Y. Winding mechanism. No. 1,433,551; Oct. 31.
- Johnstone, Samuel. (See Myers, Derbin S., assignor.)
- Joice, Stuart K. (See Washington, B. C., and Joice.)
- Joiner, Seaborn C., Los Angeles, assignor to Critz Manufacturing Company, Santa Maria, Calif. Lubricant gun. No. 1,404,967; Jan. 31.
- Jollif, Hugh H. and W. B., Springfield, Oreg. Gun for destruction of gophers, etc. No. 1,410,406; Mar. 21.
- Jolliff, Ward B. (See Jollif, Hugh H., and W. B.)
- Jolls, Le Roy E., assignor to Packard Motor Car Company, Detroit, Mich. Cutting tool. No. 1,403,555; Jan. 17.
- Jolls, Le Roy E., assignor to Packard Motor Car Company, Detroit, Mich. Slotting machine. No. 1,434,615; Nov. 7.
- Jolls, Le Roy E., assignor to Packard Motor Car Company, Detroit, Mich. Machine tool. (Reissue.) No. 15,507; Dec. 19.
- Jolly, John, Hutchinson, Kans. Lifting device. No. 1,403,962; Jan. 17.
- Jonas, Julius, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Apparatus for regulating the voltage of metal vapor-rectifier installations. No. 1,434,346; Oct. 31.
- Jonason Gustaf L., Stockholm, Sweden. Auricular apparatus. No. 1,436,264; Nov. 21.
- Jonassen, Alfred C., Days Bay, Wellington, New Zealand. Toy pistol. No. 1,430,812; Oct. 3.
- Jonassen, Alfred C., Days Bay, Wellington, New Zealand. Toy pistol. No. 1,430,813; Oct. 3.
- Jones, Adolph W., Oakland, Calif. Oil burner. No. 1,429,434; Sept. 19.
- Jones, Albert B., Los Angeles, Calif. Self-feed lettering-stamp pad. No. 1,408,207; Feb. 28.
- Jones, Albert F., Salem, Mass. Automatic counter-forming machine. No. 1,421,947; July 4.
- Jones, Albert W., Wichita, Kans. Fan-belt pulley for internal-combustion motors. No. 1,424,413; Aug. 1.
- Jones, Alexander H., Glendale, Calif. Revolving storage device. No. 1,429,435; Sept. 19.
- Jones, Alfred B., Farmington, Mo. Wheel puller. No. 1,415,451; May 9.
- Jones, Allan H., Belleville, and M. G. Anton, Newark, N. J., assignors to Circle Stamping and Mfg. Co., Belleville, N. J. Roller bearing. No. 1,414,473; May 2.
- Jones, Alva A., Shelbyville, Ill. Timer. No. 1,410,317; Mar. 21.
- Jones, Archer G., and A. W. Nielson, assignors to Duplex Envelope Company, Richmond, Va. Paper-feeding mechanism. No. 1,403,250; Jan. 10.
- Jones, Archibald, Pittsburgh, Pa. Vertical retort zinc-smelting furnace. No. 1,424,825; Aug. 8.
- Jones, Arthur, Belleville, Ill. Electric furnace. No. 1,414,362; May 2.
- Jones, Arthur B., Plainfield, N. J., assignor to Clark, MacMullen and Riley. Absorption and cooling apparatus. No. 1,432,698; Oct. 17.
- Jones, Arthur E., Ridley Park, Pa. Gravity toy railway. No. 1,417,071; May 23.
- Jones, Arthur W. (See Oakford, Frederic, assignor.)
- Jones, Austin F., assignor of one-half to G. H. Trestain, Detroit, Mich. Hollow tile building block. No. 1,432,068; Oct. 17.
- Jones, Barton M., Piqua, Ohio. Hydraulic transportation system. No. 1,419,143; June 13.
- Jones, Benjamin W., Schenectady, N. Y., assignor to General Electric Company. Circuit controller. No. 1,431,308; Oct. 10.
- Jones, Boardman Bunch Builder Corporation. (See Jones, Ebbert A., assignor.)
- Jones, Charles F., Los Angeles, assignor to Colorco, San Francisco, Calif. Duplex camera. No. 1,416,645; May 16.
- Jones, Charles H., Moorestown, N. J., assignor, by mesne assignments, to P. R. Glass Company, Boston, Mass. Folding machine. No. 1,416,298; May 16.
- Jones, Charles W., St. Paul, Minn. Safety razor. No. 1,408,355; Feb. 28.
- Jones, Charles W., Cambridge, Mass. Yielding unit. No. 1,435,307; Nov. 14.
- Jones, Clarence H., and C. Schulz, Hordville, Nebr. Non-skid tire. No. 1,412,006; Apr. 4.
- Jones, Cless E., Crawfordsville, Ind. License-plate carrier. No. 1,435,308; Nov. 14.
- Jones, Clyde M. (See Shadiner, M. H., and Jones.)
- Jones, David. (See Davies, D., and Jones.)
- Jones, David A., and C. R. Martin, Bartlesville, Okla. Filter. No. 1,421,948; July 4.
- Jones, David B., Chicago, Ill. Ore briquette. No. 1,415,094; May 9.
- Jones, David W., Chicago, Ill. Steering gear for automobiles. No. 1,429,142; Sept. 12.
- Jones, David W., Chicago, Ill. Steering gear for automobiles. No. 1,429,143; Sept. 12.
- Jones, Earle W., New York, N. Y., and E. R. Harris, Arlington, N. J. Phonographic record. No. 1,425,018; Aug. 8.
- Jones, Ebbert A., Danville, Va., assignor, by mesne assignments, to Jones-Boardman Bunch Building Corporation, Baltimore, Md. Spinning machine. No. 1,407,754; Feb. 28.
- Jones, Edmund H., assignor to Milwaukee Corrugating Company, Milwaukee, Wis. Corner strip for plastered walls. No. 1,420,404; June 20.
- Jones, Edward, Leavenworth, Kans. Revetment. No. 1,407,866; Feb. 28.
- Jones, Edward A., Cheshire, Conn. Coating and sealing compound. No. 1,403,327; Jan. 10.
- Jones, Edward M., St. Louis, Mo. Incinerator. No. 1,402,233; Jan. 3.
- Jones, Edward S., assignor of one-half to J. M. Simpson, Mobile, Ala. Dirigible, automatically-operable head-light for automobiles. No. 1,428,235; Sept. 5.
- Jones, Edward T. (See Hanson, E. C., and Jones.)
- Jones, Edward T., administrator. (See Stryker, Walter W.)
- Jones, Edward T., New Orleans, La. Radiocontrolling device. No. 1,415,179; May 9.
- Jones, Edwin L. (See Amphlett, H. P., and Jones.)
- Jones, Ellis L., Long Island City, N. Y. Water meter. No. 1,412,408; Apr. 11.
- Jones, Ellis L., Long Island City, N. Y. Liquid meter. No. 1,437,806; Dec. 5.
- Jones, Ellis L., Long Island City, N. Y. Clamp for liquid meters. No. 1,437,807; Dec. 5.
- Jones, Emerald E., Chicago, Ill. Cone belt shifter. No. 1,421,485; July 4.
- Jones, Ernest H., et al. (See Wale, Alfred E., assignor.)
- Jones, Ernest H., London, England. Means for holding electrodes used in soldering and depositing metals by the electric arc. No. 1,438,497; Dec. 12.
- Jones, Erwin R., Columbus, Ohio. Operating device for valve grinders. No. 1,421,486; July 4.
- Jones, Everett R., assignor of one-half to W. E. Allen, Wyandotte, Mich. Automobile bumper. No. 1,416,834; May 23.
- Jones, Forrest R., Knoxville, Tenn. Indexing in gear cutting. No. 1,438,528; Dec. 12.

- Jones, Forrest R., Knoxville, Tenn. Gear-cutting machine. No. 1,438,529; Dec. 12.
- Jones, Forrest R., Knoxville, Tenn. Gear-cutting machine. No. 1,438,530; Dec. 12.
- Jones, Foster G., Pitcarin Borough, Pa. Rotary fountain brush. No. 1,403,605; Jan. 17.
- Jones, Francis S., West New Brighton, N. Y. Reenforced seamer. No. 1,410,318; Mar. 21.
- Jones, Frank B. (See Edser, E., Sulman, and Jones.)
- Jones, Frank E., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Sinker cam positioner for knitting machines. No. 1,413,334; Apr. 18.
- Jones, Frank E., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Knitted glove and making the same. No. 1,413,537; Apr. 18.
- Jones, Frank E., Mission Hills, Kans., and C. A. Schwab, Ferguson, assignors to Cameragraph Company, Kansas City, Mo. Photographic developing and fixing apparatus. No. 1,427,741; Aug. 29.
- Jones, Frank E., Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I. Glove-knitting machine. No. 1,428,332; Sept. 5.
- Jones, Frank E., assignor to Hemphill Company, Pawtucket, R. I. Knitting mechanism and knitting gores and the like. No. 1,430,814; Oct. 3.
- Jones, Frank L., Seattle, Wash. Fluid brake. No. 1,403,031; Jan. 10.
- Jones, Fred H., Globe, Ariz. Can cover. No. 1,429,507; Sept. 19.
- Jones, Frederick D., Alhambra, Calif. Display-card-rack section. No. 1,434,247; Oct. 31.
- Jones, Gertrude L., administratrix. (See Jones, J. E., and Newton.)
- Jones, Gordon B., Wilson, N. C. Support for oil cans. No. 1,417,327; May 23.
- Jones, Griffin W., Toronto, Ontario, Canada. Finger moistener. No. 1,412,350; Apr. 11.
- Jones, Griffith S., Kitchener, Ontario, Canada. Combination bee escape and feeder cap. No. 1,414,284; Apr. 25.
- Jones, Harry A., and E. W. Struve, Parsons, Kans. Adjustable standard-length-rail spotter. No. 1,424,911; Aug. 8.
- Jones, Harry B., Chicago, Ill. Stave for cement corncribs. No. 1,437,424; Dec. 5.
- Jones, Harry H., Holland, Oreg. Pliers. No. 1,427,298; Aug. 29.
- Jones, Harry W., assignor to American Can Company, New York, N. Y. Sifter top. No. 1,429,590; Sept. 19.
- Jones, Harry W., assignor to American Can Company, New York, N. Y. Disintegrator sifter top. No. 1,429,591; Sept. 19.
- Jones, Harry W., Chicago, Ill., assignor to American Can Company, New York, N. Y. Top or closure for containers. No. 1,431,911; Oct. 10.
- Jones, Henry C., deceased, Pontiac, Ill.; M. A. Jones and C. R. Tombaugh, executors. Plant protector. No. 1,432,339; Oct. 17.
- Jones, Henry D., assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio. Road-scarifying device. No. 1,429,144; Sept. 12.
- Jones, Henry L., assignor to The Cleveland Chain and Manufacturing Company, Cleveland, Ohio. Connecting device. No. 1,419,112; June 6.
- Jones, Herbert, Bevier, Mo. Marking device for planters. No. 1,420,550; June 20.
- Jones, Herbert C., Tottenville, N. Y., assignor to The Franklin Baker Company, Philadelphia, Pa. Coconut-shell-cracking machine. No. 1,402,234; Jan. 3.
- Jones, Hugh J., Ocean Park, assignor of one-half to E. C. Soper, Santa Monica, Calif. Combined clutch and transmission mechanism. No. 1,409,864; Mar. 14.
- Jones, Isaac N., Santa Paula, Calif. Drawbar carrier. No. 1,438,831; Dec. 12.
- Jones, J. M., et al. (See Thomas, Martin E., assignor.)
- Jones, Jake, St. Louis, Mo. Railway appliance. No. 1,414,814; May 2.
- Jones, James A., Indianapolis, Ind. Sign. No. 1,403,788; Jan. 17.
- Jones, James E. (See Moody, William E., assignor.)
- Jones, James E. (See Newdick, Norton A., assignor.)
- Jones, James E., deceased, and F. C. Newton, Syracuse, N. Y., G. L. Jones, administratrix, assignor to the said F. C. Newton. Funnel. No. 1,425,100; Aug. 8.
- Jones, James H. (See Jones, Kenneth C. and J. H.)
- Jones, James M., Sulphur Springs, Tex. Signal. No. 1,439,554; Dec. 19.
- Jones, Jessie E., and J. L. Goodnough, Greenville, S. C. Nut lock. No. 1,414,188; Apr. 25.
- Jones, John B., Atlantic City, N. J. Separating material for molds. No. 1,406,651; Feb. 14.
- Jones, John C., Brookline, Mass. Lifting device. No. 1,410,924; Mar. 28.
- Jones, John D., assignor to Self-Oiling Bearing Company, Walla Walla, Wash. Self-oiling bearing pin. No. 1,413,029; Apr. 18.
- Jones, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Making and sealing packages. No. 1,415,038; May 9.
- Jones, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Film-feeding apparatus. No. 1,431,893; Oct. 10.
- Jones, John G., Shotton, near Chester, Wales, assignor to Scientific Cooking Devices, Limited, Chester, England. Device for use in cooking and slicing hams and other meats. No. 1,431,234; Oct. 10.
- Jones, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Film-forming machine. No. 1,437,808; Dec. 5.
- Jones, John G., and O. W. Rose, St. Louis, Mo.; said Rose assignor to said Jones. Shampoo device. No. 1,429,950; Sept. 26.
- Jones, John L., Dresden, Tenn. Fan pulley pin. No. 1,437,108; Nov. 28.
- Jones, John W. (See Wharton, E. M., and Jones.)
- Jones, Jonathan L., Akron, Ohio. Automobile lock. No. 1,428,236; Sept. 5.
- Jones, Joseph C. (See Castle, John E., assignor.)
- Jones, Joseph E., Waltham, Mass. Diaphragm attachment. No. 1,415,360; May 9.
- Jones, Joseph H., Cleburne, Tex. Demountable tire rim. No. 1,423,942; July 25.
- Jones, Joseph H., Winthrop, assignor of one-half to R. Burgess, Newton Center, Mass. Cap-spinning frame. No. 1,416,356; May 16.
- Jones, Joseph S., Brooklyn, N. Y. Switch. No. 1,400,008; Mar. 7.
- Jones, Joseph W. (See Montague, Merrell S., assignor.)
- Jones, Joseph W., New York, N. Y. Spring motor. No. 1,406,650; Feb. 14.
- Jones, Joseph W., New York, N. Y. Liquid-fuel-feeding device for internal-combustion engines. No. 1,408,208; Feb. 28.
- Jones, Joseph W., New York, N. Y. Speedometer. No. 1,408,598; Mar. 7.
- Jones, Kenneth C., Chagrin Falls, and J. H. Jones, Cleveland Heights, Ohio. Rug-scouring machine. No. 1,422,445; July 11.
- Jones, Laban E. (See Laist, F., and Jones.)
- Jones, Laurence E., Wichita Falls, Tex. Counter. No. 1,423,430; July 18.
- Jones, Lawrence R., Peru, Ill. Valve. No. 1,404,028; Jan. 17.
- Jones, Lewie L., Great Bend, Kans. Baling press. No. 1,408,599; Mar. 7.
- Jones, Lloyd, assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Manipulator. No. 1,418,932; June 6.
- Jones, Lloyd E., et al. (See Crossen, George M., assignor.)
- Jones, Louis W., Los Angeles, Calif. Detachable puddle blade. No. 1,409,112; Mar. 7.
- Jones, Louis W., Cleveland, Ohio. Tool holder. No. 1,438,040; Dec. 5.
- Jones, Loyd A., assignor to Eastman Kodak Company, Rochester, N. Y. Means and method for measuring visibility. No. 1,437,809; Dec. 5.
- Jones, Madeline H. (See Jones, Richard T. and M. H.)
- Jones, Martin, assignor of one-half to J. S. MacLaughlin, Philadelphia, Pa. Reproducer. No. 1,415,361; May 9.
- Jones, Mary A., et al., executors. (See Jones, Henry C.)
- Jones, Merton, Chicago, Ill. Displaying device. No. 1,450,509; Sept. 26.
- Jones, Omar G., Philadelphia, Pa. Vehicle fender. No. 1,421,693; July 4.
- Jones, Omar G., Philadelphia, Pa. Vehicle fender. No. 1,425,659; Aug. 15.
- Jones, Oscar W., Cambridge City, Ind. Advertising wheel. No. 1,422,577; July 11.
- Jones, Owen S., Trenton, Mo. Vehicle direction indicator. No. 1,437,248; Nov. 28.
- Jones, Palmer J., Port Washington, N. Y. Desk and seat construction. No. 1,402,501; Jan. 3.
- Jones, Paul, Hanson, assignor to Commonwealth Shoe & Leather Company, Whitman, Mass. Shoe sole. No. 1,422,716; July 11.
- Jones, Paul S., St. Louis, Mo. Snap fastener. No. 1,439,420; Dec. 19.
- Jones, Paul T., New York, N. Y. Rail brace. No. 1,406,652; Feb. 14.
- Jones, Pearl N., Pittsburgh, Pa., and J. A. Emery, New York, N. Y. Time-point-indicator watch. No. 1,412,658; Apr. 11.
- Jones, Richard, and J. T. Rutherford, Byker, Newcastle-on-Tyne, England. Device applicable to vehicle wheels for arresting lateral splashing. No. 1,440,013; Dec. 26.
- Jones, Richard T. and M. H., Baltimore, Md. Driving mechanism for vehicles. No. 1,434,706; Nov. 7.
- Jones, Robert M., Niagara Falls, N. Y. Molding apparatus. No. 1,408,515; Mar. 7.
- Jones, Samuel P., Columbia, S. C. Lubricator. No. 1,421,487; July 4.
- Jones Superior Machine Company. (See Walker, Fred G., assignor.)
- Jones, Theodorice, Dallas, Tex. Traffic signal. No. 1,415,362; May 9.
- Jones, Thomas B., Turlock, Calif. Piston ring. No. 1,423,943; July 25.
- Jones, Thomas D., and J. H. Barr, deceased, Kansas City, Mo., M. Barr, executrix. Picture-display attachment for phonographs. No. 1,420,923; June 27.
- Jones, Thomas D., and J. H. Barr, deceased, Kansas City, Mo.; M. Barr, executrix. Phonograph record. No. 1,425,486; Aug. 8.
- Jones, Thomas H., Albia, Iowa. Top for vehicles. No. 1,407,198; Feb. 21.

Alphabetical list of patentees—Continued.

- Jones, Walter J., assignor, by mesne assignments, to Brunswick-Kroeschell Company, New Brunswick, N. J. Knuckle-joint connection. No. 1,427,392; Aug. 29.
- Jones, Walter L., Earlville, Ill. Conveying apparatus. No. 1,425,861; Aug. 15.
- Jones, Walter O., Lyons Platt, Ohio. Bundling machine. No. 1,417,329; May 23.
- Jones, Walter W. (See Tiffany, Don G., assignor.)
- Jones, Walter W., and L. Klein, Norfolk, Va. Automatic sign exhibitor. No. 1,403,032; Jan. 10.
- Jones, Will, Avalon, Pa. Double boiler. No. 1,408,356; Feb. 28.
- Jones, William A., assignor to Sonje Limited, Manchester, England. Sparking plug. No. 1,426,333; Aug. 15.
- Jones, William H., Sanger, Calif. Fruit-drying tray. No. 1,414,649; May 2.
- Jones, William H., Worcester, Mass. Rotary woodworking cutter. No. 1,438,651; Dec. 12.
- Jones, William L., South Mills, N. C. Spring for automobiles. No. 1,408,005; Feb. 28.
- Jones, William L., Gallipolis, Ohio. Can-filling apparatus. No. 1,423,944; July 25.
- Jones, William R., Summitville, Ind. Heater. No. 1,408,743; Mar. 7.
- Jones, William T., Panther, W. Va. Trolley-pole head. No. 1,408,600; Mar. 7.
- Jones, William T., Panther, W. Va. Safety transferable reels and trolley-pole switch. No. 1,408,601; Mar. 7.
- Jones & Laughlin Steel Company. (See Free, John W., assignor.)
- Jones & Laughlin Steel Company. (See Haughey, Rodger F., assignor.)
- Jongedyk, Ralph. (See Selvig, J. N., and Jongedyk.)
- Jonkhoff, Henri W., Samarang, Java, Dutch East Indies. Tractor train. No. 1,436,658; Nov. 28.
- Jonson, Karl J. A. (See Lundquist, A. G., and Jonson.)
- Jontz, Guy F., Rock Island, Ill. Fan-pulley assembly. No. 1,408,602; Mar. 7.
- Joor, Samuel F. (See Kelly, Raymond, assignor.)
- Joosting, Pieter, Utrecht, Netherlands. Lift bridge. No. 1,422,717; July 11.
- Jordahl, Anders, assignor of one-half to Midwest Steel and Supply Company, Inc., New York, N. Y. Filter. No. 1,426,196; Aug. 15.
- Jordan, Albert E., et al. (See Rhodes, John A., assignor.)
- Jordan, Berien E., et al. (See Cochran, William R., assignor.)
- Jordan, Charles L. (See Merchant, Melvin H., assignor.)
- Jordan, Edith M., et al., executors. (See Fahnestock, Ernest B.)
- Jordan, Edward M. (See Breitman, J. J., and Jordan.)
- Jordan, Eugène, Franconville, assignor to Societe L'Air Liquide (Societe Anonyme Pour L'Etude et L'Exploitation des Procèdes Georges Claude), Paris, France. Means for cooling a gas. No. 1,425,019; Aug. 8.
- Jordan, Frederick G., Cement, Wash. Damp-proofing concrete body. No. 1,429,740; Sept. 19.
- Jordan, George W., Riverside, Calif. Shoulder rest for violins. No. 1,416,644; May 16.
- Jordan, Heinrich, Leverkusen, near Cologne, Germany, assignor, by mesne assignments, to The Grasselli Chemical Company, Cleveland, Ohio. Cotton dyes. No. 1,422,866; July 18.
- Jordan, Howard W., assignor to A. J. Stephens Rubber Co., Inc., Kansas City, Mo. Tire patch. No. 1,403,691; Jan. 17.
- Jordan, James M. (See Osmer, John E., assignor.)
- Jordan, John C., et al. (See Cochran, William R., assignor.)
- Jordan, Louis G., Copalis, Wash. Advertising device. No. 1,402,617; Jan. 3.
- Jordan, O. F., Company. (See Bressler, Robert E., assignor.)
- Jordan, Richard D. (See Hall, J. H., and Jordan.)
- Jordan, Robert E. (See Hague, Harold O., assignor.)
- Jordan, Robert E., assignor to Packers Machinery & Equipment Co., Chicago, Ill. Table construction. No. 1,435,965; Nov. 21.
- Jordan, Thomas A., and A. E. Caesber, Indianapolis, Ind., assignors to G. & J. Tire Company. Method and apparatus for wrapping uncured tubes from cured tubes. No. 1,405,418; Feb. 7.
- Jordan, Thomas E., Malden, assignor to Oliver Whyte Co., Inc., Boston, Mass. Seesaw. No. 1,422,766; July 11.
- Jordan, W. G. (See La Fond, Louis A., assignor.)
- Jordan, Walter E. B., Wilson, N. C. Huller rib. No. 1,424,727; Aug. 1.
- Jordan, Walter L. (See Elsenbust, A. S., and Jordan.)
- Jordon, Jerry M., Crestview, Fla. Means for extracting crude spirits and rosin from yellow and green pine stumps. No. 1,424,248; Aug. 1.
- Jorgensen, Bernhardt, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for shaping uppers to lasts. No. 1,406,260; Feb. 14.
- Jorgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,413,588; Apr. 25.
- Jorgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for working uppers over lasts. No. 1,413,589; Apr. 25.
- Jorgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for removing surplus material. No. 1,421,488; July 4.
- Jorgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for working uppers over lasts. No. 1,423,613; July 25.
- Jorgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for working uppers over lasts. No. 1,430,559; Oct. 3.
- Jorgensen, Carl J. (See Vanderley, C. L., and Jorgensen.)
- Jorgensen, Charles, and G. A. Dunmore, Montreal, Quebec, Canada. Resilient tire. No. 1,403,085; Jan. 10.
- Jorgensen, Hans F., Floral Park, assignor of one-half to J. J. Manning, Brooklyn, N. Y. Rack and gear cutting machine. No. 1,404,205; Jan. 24.
- Jorgensen, Hans F. B., Copenhagen, Denmark. Production of heat-exchanging bodies. No. 1,428,638; Sept. 12.
- Jorgensen, John J., Portland, Ore. Roller skate. No. 1,437,314; Nov. 28.
- Jørgensen, Olav E., Copenhagen, Denmark. Engine-regulating device. No. 1,411,631; Apr. 4.
- Jørgensen, Olav E., New York, N. Y. Valve. No. 1,431,160; Oct. 10.
- Jorgenson, George, Fargo, N. Dak. Water motor. No. 1,425,487; Aug. 8.
- Jorgenson, Harold, Racine, Wis. Oscillation generator. No. 1,402,235; Jan. 3.
- Jorstad, Osmund M., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Catenary-suspension system. No. 1,427,393; Aug. 29.
- Jorundson, Sigrifur, Winnipeg, Manitoba, Canada. Lacing hook. No. 1,439,472; Dec. 19.
- Joseph, Chester V., assignor to Highway Iron Products Company, Ligonier, Ind. Culvert. No. 1,431,003; Oct. 3.
- Joseph, Edward L., Westminster, London, England. Ozone generator. No. 1,431,957; Oct. 17.
- Joseph, Felix A., Hong Kong, China. Twist drill. No. 1,407,546; Feb. 21.
- Joseph, Orrville E. (See Smulski, Theodore J., assignor.)
- Josephs, Gustavus. (See Josephs, J., and Berlzheimer, assignors.)
- Josephs, Jean, and D. T. Berlzheimer, assignors of one-third to G. Josephs, Philadelphia, Pa. Automatic winding machine. No. 1,437,976; Dec. 5.
- Josephs, Lyman C., Jr. (See Masury, A. F., and Josephs.)
- Josephs, Lyman C., Jr., Flushing, N. Y. Internal-combustion turbine. No. 1,418,444; June 6.
- Josephs, Lyman C., Jr., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Electric-arc mechanism for searchlights. No. 1,423,497; July 18.
- Josephs, Lyman C., Jr., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Electric-arc mechanism for searchlights. No. 1,430,907; Oct. 3.
- Josephs, Lyman C., Jr., Allentown, Pa., and G. Wirrer, Plainfield, N. J., assignors to International Motor Company, New York, N. Y. Apparatus for the heat treatment of metals. No. 1,402,722; Jan. 3.
- Josephs, Lyman C., Jr., Allentown, Pa., and G. Wirrer, Plainfield, N. J., assignors to International Motor Company, New York, N. Y. Heat treatment. No. 1,402,723; Jan. 3.
- Josephs, Lyman C., Jr., Allentown, Pa., and G. Wirrer, Plainfield, N. J., assignors to International Motor Company, New York, N. Y. Furnace for the heat treatment of metals. No. 1,425,660; Aug. 15.
- Josephson Bag Company, The. (See Josephson, Harry, assignor.)
- Josephson, Harry, assignor to The Josephson Bag Company, Bridgeport, Conn. Coal bag. No. 1,418,717; June 6.
- Joslin, Frank M., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y. Unwinder. No. 1,412,529; Apr. 11.
- Joslin, Frank M., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y. Plunger lifter. No. 1,414,650; May 2.
- Joslin, Frank M., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y. Cutting machine. No. 1,417,830; May 30.
- Joslin, Frank M., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y. Sheet-steel cutter. No. 1,420,929; June 27.
- Joslin, Frank M., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y. Strip-feeding mechanism. No. 1,421,489; July 4.
- Josse, Emil, Berlin-Laukwitz, and W. Gensecke, Bad Homburg, Germany. Evaporating liquors. No. 1,425,020; Aug. 8.
- Josse, J. C., et al. (See Gardner, Albert R., assignor.)
- Jotzen, Bernhard, Barmen, Germany. Manufacturing keys for keyboards for pianos and like musical instruments. No. 1,436,986; Nov. 28.
- Jouclard, Jules, Versailles, France. Stove adapted to burn sawdust, shavings, and like workshop refuse. No. 1,428,782; Sept. 12.
- Jouett, Charles A., Fryse, Ky. Continuous petroleum-refining apparatus. No. 1,415,876; May 16.
- Jourdain, Gaston, Paris, France. Warper's creel. No. 1,427,394; Aug. 29.
- Jourdan, Felix. (See Blanc, G. A., and Jourdan.)

Alphabetical list of patentees—Continued.

- Jourdan, Félix, Rome, Italy. Obtaining in soluble state some of the constituents of complex rocks. No. 1,417,831; May 30.
- Jourdan, Frederick H., Evansville, Ind. Joint for steering wheels. No. 1,439,002; Dec. 19.
- Journeay, Fred Y., Orange, Tex. Shutter regulator for moving-picture machines. No. 1,434,122; Oct. 31.
- Joy, Bryon C. (See Blum, Hosmer, assignor.)
- Joy, Charles A., Olympia, Wash. Internal-combustion engine. No. 1,402,866; Jan. 10.
- Joy, Joseph F., Pittsburgh, Pa. Conveyer. No. 1,405,419; Feb. 7.
- Joy, Joseph F., assignor to Joy Machine Company, Pittsburgh, Pa. Coal-loading machine. No. 1,411,702; Apr. 4.
- Joy, Joseph F., New Bethlehem, assignor to Joy Machine Company, Pittsburgh, Pa. Method of and means for locomotive transportation of coal cars in mines. No. 1,429,145; Sept. 12.
- Joy, Joseph F., assignor to Joy Machine Company, Pittsburgh, Pa. Stopping for mine-ventilating crosscuts. No. 1,435,008; Nov. 7.
- Joy Machine Company. (See Joy, Joseph F., assignor.)
- Joy, Marshall W., San Francisco, Calif. Visible fluid gauge. No. 1,424,104; July 25.
- Joy Tooth Company. (See Fredericks, Enoch M., assignor.)
- Joyce, Bryan P., Washington, D. C. Gun retracting mechanism. No. 1,424,105; July 25.
- Joyce, James D., Philadelphia, Pa. Yarn and thread cleaner for winding machines. No. 1,431,812; Oct. 10.
- Joyce, James D., Philadelphia, Pa. Bobbin. No. 1,435,475; Nov. 14.
- Joyner, Francis, New York, N. Y. Amusement device. No. 1,433,377; Oct. 24.
- Joyner, Lanson B., Washington, La. Packing gland. No. 1,404,299; Jan. 24.
- Joyner, Miles D., Spartanburg, S. C. Crosshead. No. 1,419,457; June 13.
- Joynt, James, and P. L. Bowser, assignors to Arctic Rotary Pump Company, St. Louis, Mo. Rotary compressor or rotary engine. No. 1,419,930; June 20.
- Jubber, Harry, Kenilworth, N. J. Ice creeper. No. 1,408,516; Mar. 7.
- Jubilee Manufacturing Company. (See Gillet, Alexis F., assignor.)
- Jucker, Ernst, Zurich, Switzerland. Typewriting machine. No. 1,406,873; Feb. 14.
- Judd, Albert N., Watsonville, Calif. Berry crate. No. 1,431,813; Oct. 10.
- Judd, Charles T., Somerville, assignor to J. Duncan Company, Everett, Mass. Overhead tramway combined cut-through and curve switch. No. 1,435,608; Nov. 14.
- Judd, Frank P., Tonawanda, N. Y. Film-winding mechanism. No. 1,411,106; Mar. 28.
- Judd, H. L., Company. (See McKenna, J., and Chase, assignors.)
- Judd, Henry S. (See Craver, Howard S., assignor.)
- Judelson, Louis, New York, N. Y. Washing machine. No. 1,435,527; Nov. 14.
- Judge, John J., Jessup, Pa. Direction signal for motor vehicles. No. 1,407,199; Feb. 21.
- Judson, John N., Oakland, Calif. Doughnut-cooking machine. No. 1,429,904; Sept. 19.
- Judy, Joseph E., McKeesport, Pa. Drilling machine for tapping out the hot metal of furnaces and cupolas. No. 1,424,483; Aug. 1.
- Judy, Robert, Gifford, Ill. Watering trough. No. 1,422,986; July 18.
- Juelson, Edwin, assignor to American Aero Company, Chicago, Ill. Hub. No. 1,419,568; June 13.
- Juer, George, Philadelphia, Pa. Automatic regulator for artificial-silk machines. No. 1,407,280; Feb. 21.
- Juer, George, Philadelphia, Pa. Nitrating apparatus. No. 1,431,161; Oct. 10.
- Juergens, Edward F., Middletown, Ohio, assignor to J. H. Wilson, Washington, D. C. Toy. No. 1,421,694; July 4.
- Julian, Earnest E., Wichita, assignor of one-half to W. T. Smith, Protection, Kans. Tire. No. 1,433,625; Oct. 31.
- Julian, Edgar C., Elwood, Ind. Rubber-boot repairer. No. 1,406,261; Feb. 14.
- Julien, Bartholomew, assignor of one-half to C. E. Fuller, Omaha, Nebr. Door lock. No. 1,431,739; Oct. 10.
- Julien, Cyprien E. P., Paris, France. Distributor for sewing machines. No. 1,409,009; Mar. 7.
- Julien, Napoleon P., Springfield, Mass. Hoisting mechanism for elevators. No. 1,419,783; June 13.
- Julin, Victor T., Djursholms-Danderyd, Sweden. Lathe dog. No. 1,425,862; Aug. 15.
- Julius, George A., Sydney, New South Wales, Australia. Race totalizer. No. 1,409,216; Mar. 14.
- Julius Pintsch Akt.-Ges. (See Klebert, Emil, assignor.)
- Jullin, Alexis J., St.-Cloud, France. Apparatus for regulating the voltage of dynamo-electric machines. No. 1,421,246; June 27.
- Jump, Samuel C., Dubuque, Iowa. Railway track. No. 1,436,446; Nov. 21.
- Jung, Ernst, St. Louis, Mo. Permanent air gauge for pneumatic tires. No. 1,421,490; July 4.
- Jung, Karl T. F., Kalmar, and G. H. Petersson, Stockholm, Sweden. Speed-integrating mechanism and the like. No. 1,416,210; May 16.
- Jung, Karl T. F., Kalmar, Sweden. Metal planer. No. 1,429,741; Sept. 19.
- Jungbluth, Carl J. (See Knott, H. H., Hammer, and Jungbluth.)
- Jungerheld, Frederick F., assignor of one-fourth to W. B. Wylie and one-fourth to Stork Motor Company, Saginaw, Mich. Radiator tube. No. 1,417,387; May 23.
- Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,415,571; May 9.
- Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Vibration damper. No. 1,421,785; July 4.
- Jünghans, Helmut, Schramberg, Germany, and F. Glogauer, Cincinnati, Ohio. Producing visible signals and advertisements on water surfaces. No. 1,428,639; Sept. 12.
- Jungk, Ernst V., assignor to E. W. Young, Brooklyn, N. Y. Washer. No. 1,432,294; Oct. 17.
- Jungk, Herbert G. (See Hellmund, R. E., and Jungk.)
- Jungmarker, Axel A. (See Gustafson, G., Jungmarker, and Caspersson.)
- Junker, Leo H., Pelham, N. Y. Individual-package display card. No. 1,428,783; Sept. 12.
- Junkers, Hugo. (See Wagenseil, Ludwig, assignor.)
- Junkers, Hugo, Dessau, Germany. Stabilization of flying machines. No. 1,407,425; Feb. 21.
- Junkers, Hugo, Dessau, Germany. Panel rod. No. 1,424,912; Aug. 8.
- Junkers, Hugo, Dessau, Germany. Making hollow construction members. No. 1,427,904; Sept. 5.
- Junkers, Hugo, Aachen, Germany, assignor, by mesne assignments, to Opposed Piston Oil Engine Co., Inc. Cylinder for internal-combustion engines. No. 1,410,319; Mar. 21.
- Junkin, Agnes A. (See Junkin, John R., assignor.)
- Junkin, Joel S., Kennedy, Ala. Sawmill attachment. No. 1,414,740; May 2.
- Junkin, John C., assignor to Minneapolis Steel & Machinery Company, Minneapolis, Minn. Tailings thrasher for thrashing machines. No. 1,406,394; Feb. 14.
- Junkin, John C., assignor to Minneapolis Steel & Machinery Company, Minneapolis, Minn. Feeder spreader for thrashing machines. No. 1,406,395; Feb. 14.
- Junkin, John R., Kansas City, assignor to A. A. Junkin, Independence, Mo. Dump-body hoist. No. 1,440,155; Dec. 26.
- Junkunc, John, Chicago, Ill. Lock. No. 1,404,968; Jan. 31.
- Junkunc, John, Chicago, Ill. Key lock. No. 1,411,280; Apr. 4.
- Juniform Company, The. (See Smith, Goodwin B., assignor.)
- Junquera, Buenaventura, Oviedo, Spain. Manufacture of concentrated solutions. No. 1,436,809; Nov. 28.
- Jupp, Alfred E., and R. Crooks, Youngstown, Ohio. Automatic control for mills. No. 1,416,211; May 16.
- Jupp, Alfred E., and R. S. Crooks, assignors to The Youngstown Sheet & Tube Company, Youngstown, Ohio. Delivery mechanism for rolling mills. No. 1,423,856; July 25.
- Jurcak, Jozef. (See Poleski, J., and Jurcak.)
- Jurisch, Steve, Cleveland, Ohio. Window ventilator and mounting therefor. No. 1,409,050; Mar. 7.
- Juriss, Maximilian, Wellington, New Zealand. Detachable heel. No. 1,432,340; Oct. 17.
- Jury, William, Lansing, Mich. Footing for automobiles. No. 1,425,101; Aug. 8.
- Just, Heinrich, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Range and position finder. No. 1,407,281; Feb. 21.
- Jüst, Joseph. (See Schenkel, M., and Jüst.)
- Justice, Homer H., and H. J. Bennett, Pasadena, Calif. Bucket attachment. No. 1,414,285; Apr. 25.
- Justice, Ithamar M., and G. A. Willigman, Dayton, Ohio. Apparatus for baking material (downdraft kilns). No. 1,405,593; Feb. 7.
- Justrite Manufacturing Company. (See Frisbie, William J., assignor.)
- Justrite Manufacturing Company. (See Schmidt, Charles J., assignor.)
- Justus, Henry W., Napanoch, N. Y. Trap. No. 1,427,600; Aug. 29.
- K-D Barrel and Hamper Co. (See Walker, Joseph L., assignor.)
- K-M Manufacturing Company, The. (See Minier, William H., assignor.)
- K. P. Products Company. (See Knauss, Edward, assignor.)
- K. T. Manufacturing Company. (See Kauffman, Elias A., assignor.)
- K-W Ignition Company, The. (Karkau, Albert G., assignor.)
- K. F. & C. Tire & Rubber Corporation. (See Krusemark, Frederick A., assignor.)
- Kaarlela, Matti. (See Hannah, G. K., Tilton, and Kaarlela.)
- Kabbel, William, Milwaukee, Wis. Automatic rewind mechanism for motors. No. 1,425,863; Aug. 15.
- Kabigting, Bernard R., Oakland, Calif. Nailing implement. No. 1,406,027; Feb. 7.
- Kabo Corset Company. (See Keller, Herman A., assignor.)
- Kabureck, George, Hartford, Conn. Ash sifter. No. 1,425,488; Aug. 8.

Alphabetical list of patentees—Continued.

- Kaczanowski, John, New York, N. Y. Padlock. No. 1,429,883; Sept. 19.
- Kadel, Byers W., Baltimore, Md. Car-door device. No. 1,434,123; Oct. 31.
- Kadel, Byers W., Baltimore, Md. Door mechanism for railway cars. No. 1,434,953; Nov. 7.
- Kadel, Byers W., Baltimore, Md. Car-door mechanism. No. 1,434,954; Nov. 7.
- Kadel, Byers W., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Car truck. No. 1,414,955; May 2.
- Kadel, Byers W., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Car truck. No. 1,414,956; May 2.
- Kadel, Byers W., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Car truck. No. 1,414,957; May 2.
- Kadel, Byers W., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Car truck. No. 1,414,958; May 2.
- Kadel, Byers W., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Car truck. No. 1,414,959; May 2.
- Kadel, Byers W., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Car truck. No. 1,414,960; May 2.
- Kadel, Byers W., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Car truck. No. 1,414,961; May 2.
- Kadel, Byers W., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Car truck. No. 1,414,962; May 2.
- Kadel, Byers W., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Car truck. No. 1,414,963; May 2.
- Kadel, Byers W., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Draft rigging. No. 1,426,991; Aug. 22.
- Kadel, Byers W., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Manufacturing yokes for railway draft rigging. No. 1,439,671; Dec. 19.
- Kaehni, Frank J. and W. L., Cleveland, Ohio. Electromagnetic sound-producing device. No. 1,426,743; Aug. 22.
- Kaehni, William L. (See Kaehni, Frank J. and W. L.)
- Kaempfi, Henry, Gladstone, Mich. Gauge clock. No. 1,412,530; Apr. 11.
- Kaestner, Adolph. (See Held, Siegfried, assignor.)
- Kaestner & Hecht Company. (See Gazda, Adolph A., assignor.)
- Kafka, Oscar, New York, N. Y. Necktie. No. 1,429,951; Sept. 26.
- Kagarise, John W. (See Lewis, J. F. and Kagarise.)
- Kägi, Emil, Winterthur, Switzerland. Frame beam for horizontal engines. No. 1,419,858; June 13.
- Kägi, Hans. (See Hartmann, M. and Kägi.)
- Kahan, Adolph D., Chicago, Ill. Box structure. No. 1,430,169; Dec. 19.
- Kahle, Emil. (See Adler, Karl M., assignor.)
- Kahl, Ernest E. (See Jahr, B., and Kahl.)
- Kahl, John O., Philadelphia, Pa. Internal chuck. No. 1,428,100; Sept. 5.
- Kahl, Walter J., New York, N. Y. Printing-telegraph projecting machine. No. 1,432,250; Oct. 17.
- Kahler, Frank, Dillon, Mont. Gate-operating mechanism. No. 1,424,913; Aug. 8.
- Kahler, Venice A. H., Pasadena, Calif. Spray sprinkler. No. 1,415,452; May 9.
- Kahlow, Arthur, Milwaukee, Wis. Handle for suitcases and the like. No. 1,403,167; Jan. 10.
- Kahlow, Arthur, Milwaukee, Wis. Hinge structure for traveling bags. No. 1,438,244; Dec. 12.
- Kahn, Bertrand B., Cincinnati, assignor to The Estate Stove Company, Hamilton, Ohio. Oven charger. No. 1,416,034; May 16.
- Kahn, Charles, London, England. Acoustic instrument. No. 1,429,592; Sept. 19.
- Kahn, Joseph, Chicago, Ill. Loose-leaf binder. No. 1,430,815; Oct. 3.
- Kahn, Joseph, Chicago, Ill. Loose-leaf device. No. 1,438,378; Dec. 12.
- Kahn, Louis. (See Silberman, J., and Kahn.)
- Kahn Tailoring Company. (See Meissel, Henry A., assignor.)
- Kahn, Walter D., Cedarhurst, N. Y., assignor, by mesne assignments, to Diamond Electric Specialties Corp., Newark, N. J. Portable lamp. No. 1,434,780; Nov. 7.
- Kahn, William, New York, N. Y. Device for handling linoleum. No. 1,403,692; Jan. 17.
- Kahn, Wolf, Newark, N. J. Fastener and making the same. No. 1,428,101; Sept. 5.
- Kahns, Walter R., assignor to J. H. White Manufacturing Company, Brooklyn, N. Y. Electric-candle lighting fixture. No. 1,407,465; Feb. 21.
- Kahns, Walter R., assignor to J. H. White Manufacturing Company, Brooklyn, N. Y. Electric-candle-lighting fixture. No. 1,417,330; May 23.
- Kahns, Walter R., assignor to J. H. White Manufacturing Company, Brooklyn, N. Y. Wrench. No. 1,427,601; Aug. 29.
- Kaho, Halley T., West Jefferson, Ohio. Rotary swing. No. 1,433,285; Oct. 24.
- Kahr, August, Leipzig-Lindenau, Germany. Apparatus for the manufacture of hollow bricks closed on all sides. No. 1,411,170; Mar. 28.
- Kaimor, Richard V., assignor to The English & Mersick Co., New Haven, Conn. Latch for vehicle doors. No. 1,411,107; Mar. 28.
- Kainer, Benjamin, New York, N. Y. Egg separator. No. 1,428,594; Sept. 12.
- Kainer, Richard V., New Haven, Conn., and C. E. Ritter, Chicago, Ill., assignors to The English & Mersick Co., New Haven, Conn. Latch for vehicle doors. No. 1,415,839; May 9.
- Kaiser, Alfred E., Factoria, Wash., assignor to A. S. Witter, Seattle, Wash. Game. No. 1,436,962; Nov. 28.
- Kaiser, Anthony G., J. Nahirny, and C. F. Erxleben, assignors of one-fourth to The Medart Company, St. Louis, Mo. Safety cupola tapper and stopper. No. 1,437,661; Dec. 5.
- Kaiser, Frank H., Buffalo, N. Y. Film-actuating mechanism for picture machines. No. 1,427,602; Aug. 29.
- Kaiser, Fred, Lansdale, Pa. Freezing tank. No. 1,435,643; Nov. 14.
- Kaiser, John J., Dayton, Ohio. Fire apparatus. No. 1,410,190; Mar. 21.
- Kaiserman, Jacob R., Livingston, Mont. Electrical door-operating device. No. 1,417,173; May 23.
- Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Combination lighting and ignition switch. (Reissue.) No. 15,289; Feb. 21.
- Kaisser, Karl, Amsterdam, Netherlands, assignor to Metallbank und Metallurgische Gesellschaft, Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Mercury step switch for electrical machines or apparatus. No. 1,426,875; Aug. 22.
- Kaittä, Wilppu, Grayling, Mich. Sled. No. 1,415,877; May 16.
- Kalaf, John, Jr., Meta, Mo. Musical instrument. No. 1,417,174; May 23.
- Kalamazoo Loose Leaf Binder Co. (See Moore, Eric C., assignor.)
- Kalamazoo Loose Leaf Binder Company. (See Wigginton, George P., assignor.)
- Kalb, Walther, Leipzig, Germany. Collapsible tube. No. 1,437,249; Nov. 28.
- Kale, Fred, Winterset, Iowa. Gate-operating device. No. 1,402,512; Jan. 3.
- Kaletzky, Nathaniel A. (See Boyler, Emanuel J., assignor.)
- Kaley, John H., Schenectady, N. Y. Vehicle signal. No. 1,424,652; Aug. 1.
- Kalina, Loeser, Brooklyn, N. Y. Key pocketbook. No. 1,436,592; Nov. 21.
- Kalivoda, John, Cuba, Kans. Road drag or scraper. No. 1,426,992; Aug. 22.
- Kalkbrenner, George, Marion, Ohio. Bottle cap. No. 1,433,552; Oct. 31.
- Kalkusch, Rudolph, Chicago, Ill. Fire escape. No. 1,411,438; Apr. 4.
- Kallenbach, Edward E., New York, N. Y., assignor to The Stanley Manufacturing Company, Dayton, Ohio. Bottle-label press. No. 1,413,590; Apr. 25.
- Kallio, Henry, Painesdale, Mich. Miner's knife. No. 1,440,014; Dec. 26.
- Kallman, Otto S. (See Olson, C. A., and Kallman.)
- Kallman, Otto S., Minneapolis, Minn. Tap and reamer chuck. No. 1,421,949; July 4.
- Kallmeyer, Frank J., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Casket handle. No. 1,427,603; Aug. 29.
- Kallwitz, Oscar E., assignor of one-half to T. A. Cameron, Chicago, Ill. Explosive engine. No. 1,415,096; May 9.
- Kalma, Steve, assignor of one-half to G. Getsie, Bradock, Pa. Automobile. No. 1,419,266; June 13.
- Kalman, Frank, Sydney, New South Wales, Australia. Trousers. No. 1,418,578; June 6.
- Kalmbach, Frederick, New York, N. Y. Film-splicing device. No. 1,432,466; Oct. 17.
- Kalmus, Comstock & Westcott, Incorporated. (See Comstock, Daniel F., assignor.)
- Kalmus, Comstock & Westcott, Inc. (See Troland, L. T., Ball, and Andrews, assignors.)
- Kalmus, Comstock & Westcott, Incorporated. (See Westcott, Ernest W., assignor.)
- Kalmus, Comstock & Westcott, Incorporated. (See Westcott, William B., assignor.)
- Kaltwasser, Oskar, Berlin, and H. Oehrn, Berlin-Charlottenburg, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Dyeing skins, hairs, and the like. No. 1,416,646; May 16.
- Kambach, Hermann, Berlin-Charlottenburg, Germany. Artificial asphalt and making stable mixture thereof with stony material. No. 1,433,137; Oct. 24.
- Kamelgar, Solomon, Paterson, N. J. Stop motion for looms. No. 1,433,891; Oct. 31.
- Kamenstein, Meyer, New York, N. Y. Ash sifter. No. 1,415,575; May 9.
- Kamerer, William J. (See Stucker, J. M., and Kamerer.)
- Kaminski, Paul, Berlin-Pankow, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. System for simultaneously directing guns, searchlights, or other instruments on a distant point. No. 1,438,832; Dec. 12.

- Kaminski, Paul, Berlin-Pankow, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Controlling system for simultaneously firing a number of guns from a central station. No. 1,438,833; Dec. 12.
- Kamm, Oliver, assignor to American Writing Paper Company, Holyoke, Mass. Emulsification of resin soap in water. No. 1,415,363; May 9.
- Kämmer & Reinhardt, A. G. (See Reinhardt, Franz, assignor.)
- Kammerer, Friedrich, Pforzheim, Germany. Producing hollow wire for the manufacturing of chains and the like. No. 1,421,491; July 4.
- Kammerer, John M. (See Kammerer, Mathias, and J. M.)
- Kammerer, Mathias and J. M., assignors of one-half to A. Henning and J. F. Schofield, El Paso, Ill. Cultvert. No. 1,412,616; Apr. 11.
- Kammeyer, John, Allison, Iowa. Disk scraper for agricultural machines. No. 1,410,813; Mar. 28.
- Kamp, Hermann, Barmen, Germany. Moistener. No. 1,419,504; June 13.
- Kamper, Edward, assignor to The Willys-Overland Company, Toledo, Ohio. Tube-welding machine. No. 1,421,786; July 4.
- Kamper, Edward, assignor to The Willys-Overland Company, Toledo, Ohio. Tube-welding machine. No. 1,439,962; Dec. 26.
- Kamper, Edward, assignor to The Willys-Overland Company, Toledo, Ohio. Pipe-cutting machine. No. 1,439,963; Dec. 26.
- Kamper, Leslie H., V. E. Adland, and W. Barthelme, Chicago, Ill. Dry-room tumbler. No. 1,405,594; Feb. 7.
- Kampfe, Otto, Bellmore, assignor of one-half to H. C. Walker, New York, N. Y. Cigar band. No. 1,402,513; Jan. 3.
- Kampfe, Otto, Bellmore, assignor of one-half to H. C. Walker, New York, N. Y. Bottle cap. No. 1,423,431; July 18.
- Kampfe, Otto, Bellmore, assignor of one-half to H. C. Walker, New York, N. Y. Edge-tool sharpener. No. 1,426,088; Aug. 15.
- Kampmann, George A., Brainerd, Minn. Waterproofing device. No. 1,423,857; July 25.
- Kampmann, Gerhard S. R., assignor to Naamlooze Venootschap Handel-Maatschappij Planeet, Tegal, Java, Dutch East Indies. Lock. No. 1,435,855; Nov. 14.
- Kane, Edward C., Binghamton, N. Y. Wetting and wringing machine for box-toe doublers in shoes. No. 1,424,914; Aug. 8.
- Kane, John J., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Time-limit apparatus. No. 1,418,803; June 6.
- Kane, John J., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Thrust bearing. No. 1,418,804; June 6.
- Kane, Patrick, Chicago, Ill. Sanitary garbage can. No. 1,422,064; July 4.
- Kane, Thomas H., assignor to Truscon Steel Company, Youngstown, Ohio. Metal building construction. No. 1,421,950; July 4.
- Kane, Thomas H., assignor to The Truscon Steel Company, Youngstown, Ohio. Framing clamp. No. 1,431,527; Oct. 10.
- Kane, Thomas H., assignor to The Truscon Steel Company, Youngstown, Ohio. Building construction. No. 1,433,826; Oct. 31.
- Kanengieter, Albert, Willow Lake, S. Dak. Potato cleaning, sorting, and loading apparatus. No. 1,431,814; Oct. 10.
- Kania, Rudolf, Vindex, Md. Cooker. No. 1,418,378; June 6.
- Kania, Rudolf, assignor of one-half to A. Rynkiewicz, Vindex, Md. Agricultural implement. No. 1,413,853; Apr. 25.
- Kaniefski, Vincent M., Chester, Pa. Comb. No. 1,440,015; Dec. 26.
- Kanke, Fred, Jr., Van Horn, Iowa. Cultivator. No. 1,431,815; Oct. 10.
- Kannenber, Bruno, Berlin-Grunewald, Germany. Shed for airships. No. 1,426,197; Aug. 15.
- Kannenstine, Fabian M., Chicago, Ill. Physician's heating appliance. No. 1,433,286; Oct. 24.
- Kanner, Samuel, New York, N. Y. Razor-stropping machine. No. 1,434,433; Nov. 7.
- Kannow, Elizabeth, Hinton, Iowa. Cuspidor for vehicles. No. 1,426,876; Aug. 22.
- Kano, Tatsuzo, et al. (See Yamamoto, Yoshitaro, assignor.)
- Kanownik, Joseph, Meriden, Conn. Combined drilling and riveting machine. No. 1,432,397; Oct. 17.
- Kansas City Elevator Manufacturing Company. (See Turner, Frederick E., assignor.)
- Kansas City Spiral Pipe Company, The. (See Colby, Frank W., assignor.)
- Kanter, H. L. (See Lash, Robert L., assignor.)
- Kanter, Howard E., Glenside, assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Transfer drum for conveyors. No. 1,424,249; Aug. 1.
- Kantor, Charles E., and E. Schorik, Chicago, Ill. Water-heating attachment. No. 1,408,517; Mar. 7.
- Kantor, Harry D., Memphis, Tenn. Cuff button. No. 1,409,010; Mar. 7.
- Kapatas, Gregory K., assignor of one-half to J. E. Mulholland, Providence, R. I. Roving stop motion for spinning frames. No. 1,401,984; Jan. 3.
- Kapferer, Henri, Paris, assignor to La Societe Astra, Billancourt, France. Liquid-elevating apparatus. No. 1,405,595; Feb. 7.
- Kapferer, Henry, Billancourt, France. Trailer. No. 1,421,492; July 4.
- Kaplan, Benjamin, New York, N. Y. Waste and vent pipe fitting. No. 1,427,107; Aug. 29.
- Kaplan, Louis, New York, N. Y. Rubber heel. No. 1,422,446; July 11.
- Kapmeyer, Gustav, administrator. (See Gleitz, Wilhelm.)
- Kapp, Milton R., Vinita, Okla. Tire support. No. 1,404,029; Jan. 17.
- Kappel, William J., Milwaukee, Wis. Shoe-counter flexor. No. 1,424,166; Aug. 1.
- Kappertz, Leo, Morristown, N. J. Snow-removing device. No. 1,435,476; Nov. 14.
- Kappes, Karl F., Mannheim, assignor to Luftfahrzeugbau Schutte-Lanz, Mannheim-Rheinau, Germany. Deflating and safety valve for gas-filled balloons. No. 1,408,603; Mar. 7.
- Kappes, Karl F., Mannheim, assignor to the Firm Luftfahrzeug-Bau Schutte-Lanz, Mannheim-Rheinau, Germany. Electromagnet for momentarily releasable locking devices with electric locking of the releasing means. No. 1,421,951; July 4.
- Kappes, Karl F., Mannheim, assignor to Firm: Luftfahrzeugbau Schutte-Lanz, Mannheim-Rheinau, Germany. Radiator arrangement for aerial vessels. No. 1,432,865; Oct. 24.
- Kapuczin, Dave, Los Angeles, Calif. Wheel. No. 1,413,030; Apr. 18.
- Kapuczin, Dave, Los Angeles, Calif. Piston ring. No. 1,413,031; Apr. 18.
- Karasick, Samuel, New York, N. Y. Sine angle plate. No. 1,409,343; Mar. 14.
- Karasiewicz, Walter, Detroit, Mich. Sash lifter. No. 1,414,698; May 2.
- Kardaetz, Paul, Berlin-Reinickendorf, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Closed-circuit relay. No. 1,426,993; Aug. 22.
- Kardell, Henry W., University City, assignor to Kardell Tractor and Truck Company, St. Louis, Mo. Traction wheel. No. 1,408,090; Feb. 28.
- Kardell Tractor and Truck Company. (See Kardell, Henry W., assignor.)
- Kardong, Theodore, Minneapolis, Minn. Spacing bar for use in reinforced concrete columns. No. 1,409,217; Mar. 14.
- Kardong, Theodore, Minneapolis, Minn. Spiral machine. No. 1,417,249; May 23.
- Kardong, Theodore, Minneapolis, Minn. Bar bender. No. 1,425,261; Aug. 8.
- Kardos, Emanuel, Newark, N. J., assignor to Metal & Thermit Corporation, Chrome, N. J. Scrap-metal press. No. 1,409,726; Mar. 14.
- Kardos, Emanuel, Newark, assignor to Metal & Thermit Corporation, Chrome, N. J. Producing pure zinc solution. No. 1,409,727; Mar. 14.
- Karenberg, Ewald, Cassel, Germany. Safety device for doors. No. 1,439,421; Dec. 19.
- Karge, Maxwell R., Phoenix, N. Y. Flexible coupling. No. 1,429,147; Sept. 12.
- Karge, Maxwell R., Phoenix, assignor, by mesne assignments, to C. J. Deckop, Buffalo, N. Y. Universal power-transmitting element. No. 1,429,146; Sept. 12.
- Karich, Rudolf E., Woodhaven, assignor to The American Taximeter Company, New York, N. Y. Hub-odometer register drives. No. 1,437,942; Dec. 5.
- Karish, Isaak. (See Kernes, J., and Karish.)
- Karitzky, John. (See Pleister, H. W., and Karitzky.)
- Karitzky, John, Garwood, assignor, by mesne assignments, to H. B. Newhall, Plainfield, N. J. Conduit or cable clamp and bridge ring. No. 1,419,931; June 20.
- Karitzky, John, Garwood, assignor, by mesne assignments, to H. B. Newhall, Plainfield, N. J. Conduit or cable clamp and bridge ring. No. 1,419,932; June 20.
- Karkau, Albert G., assignor to The K-W Ignition Company, Cleveland, Ohio. Connection for electric conductors. No. 1,420,846; June 27.
- Karl, Heinrich. (See Karl, William and H.)
- Karl, William and H., Jersey City, N. J. Necktie-knot retainer for collars. No. 1,424,763; Aug. 8.
- Karlberg, Arvid E. (See Wampach, F. E., and Karlberg.)
- Karle, John D., Roselle Park, assignor to Diehl Manufacturing Company, Elizabeth, N. J. Brush holder. No. 1,405,596; Feb. 7.
- Karle, John D., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Lighting system for power tables. No. 1,415,453; May 9.
- Karle, John D., Roselle Park, assignor to Diehl Manufacturing Company, Elizabeth, N. J. Locking device. No. 1,418,379; June 6.
- Karle, John D., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Mechanically-driven fan. No. 1,435,477; Nov. 14.
- Karle, John D., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Latch. No. 1,436,447; Nov. 21.

Alphabetical list of patentees—Continued.

- Karlsen, Eugene S., Chicago, Ill. Tool holder. No. 1,432,467; Oct. 17.
- Karlsson, Kaleb. (See Brogren, S. G., and Karlsson.)
- Karlsson, Walfrid, Viggbyholm, assignor to Aktiebolaget Tubus, Stockholm, Sweden. Water heater. No. 1,407,282; Feb. 21.
- Karol, Paul, Baggaley, Pa. Hairpin. No. 1,431,004; Oct. 3.
- Karpen, S., & Bros. (See Carter, C. B., and Cox, assignors.)
- Karpen, S., & Bros. (See Hultgren, Charles, assignor.)
- Karr, Alfred D. (See Perkins, K. D., and Karr.)
- Karr, Alfred D., Newark, N. J., and K. D. Perkins, assignors to Audiffren Refrigerating Machine Co., New York, N. Y. Control for refrigerating machines. No. 1,424,826; Aug. 8.
- Karr, Darwin S., Los Angeles, Calif. Combination folder and picture frame. No. 1,426,649; Aug. 22.
- Karr, Edward F., et al. (See Bahr, August T. J., assignor.)
- Karr, Henry C., assignor of one-fifth to E. Bonnelycke, Washington, D. C. Shipping package for watches. No. 1,423,329; July 18.
- Karr, John R., and C. L. Sheppard, Tracy, Calif. Hydrocarbon burner. No. 1,407,283; Feb. 21.
- Karraker, Ado C., Dongola, Ill. Axle setter. No. 1,410,191; Mar. 21.
- Karrer, Josef, assignor to Maschinenfabrik Oerlikon, Oerlikon, near Zurich, Switzerland. Multiple-stage pressure-stage turbine. No. 1,429,508; Sept. 19.
- Karrio, Erick, Hancock, Mich. Railway spike. No. 1,428,962; Sept. 12.
- Karsky, Joseph S., Owen, Wis. Cotter pin. No. 1,429,353; Sept. 19.
- Karycheff, Vladimir, and P. E. Gagarine, Paris, France. Apparatus for feeding fuel to furnaces. No. 1,422,867; July 18.
- Kasch, Frederick C., and G. F. Neff, Akron, Ohio. Mounting for draft regulators. No. 1,422,868; July 18.
- Kaschtosky, Alvis, Prague-Smichov, Czechoslovakia, assignor of one-half to R. A. Fenzl, Harris County, Tex. Combustion motor. No. 1,427,395; Aug. 29.
- Kasley, Alexander T., Swissvale, Pa. Power-developing apparatus. No. 1,427,108; Aug. 29.
- Kasley, Alexander T., Tinicum township, Delaware county, Pa., assignor to Westinghouse Electric & Manufacturing Co. Locomotive. No. 1,405,848; Feb. 7.
- Kasley, Alexander T., Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company. Method and apparatus for generating power. No. 1,419,267; June 13.
- Kasley, Alexander T., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Co. Pressure generator. No. 1,423,330; July 18.
- Kasley, Alexander T., Tinicum township, Delaware county, Pa., assignor to Westinghouse Electric & Manufacturing Co. Governing mechanism. No. 1,440,224; Dec. 26.
- Kasper, Walter F., assignor to Fairmont Gas Engine & Railway Motor Car Company, Fairmont, Minn. Throttle valve. No. 1,423,858; July 25.
- Kasper, Walter F., assignor to Fairmont Gas Engine & Railway Motor Car Co., Fairmont, Minn. Wheel. No. 1,434,955; Nov. 7.
- Kassander, Leopold, assignor to Nathan Manufacturing Company, New York, N. Y. Lubricator. No. 1,425,972; Aug. 15.
- Kassebaum, William F., Hebron, Nebr. Foldable wicket for dams. No. 1,404,969; Jan. 31.
- Kasser, Morris, San Francisco, Calif. Preserved egg and producing the same. No. 1,424,484; Aug. 1.
- Kassler, Adolph, assignor to American Car and Foundry Company, New York, N. Y. Dumping car. No. 1,415,037; May 9.
- Kasson, Charles L., Mattapan, and T. H. Haines, Dorchester, Mass. Method of and apparatus for insulation testing. No. 1,407,069; Feb. 21.
- Kasson, Mahlon O., Chicago, Ill. Apparatus for vulcanizing rubber articles. No. 1,427,109; Aug. 29.
- Kastler, Edward L., assignor of one-half to H. G. Fawcett, Stockton, Calif. Combination igniter and fuel injector for Diesel-type engines. No. 1,411,108; Mar. 28.
- Kaszinski, Benedykt A., Fairfield, Conn. Article of furniture. No. 1,405,420; Feb. 7.
- Katcher, Morris. (See Sopenoff, S. L., and Katcher.)
- Kato, Teisuke, Hyogo Ken, Japan. Manufacturing zinc dust. No. 1,425,661; Aug. 15.
- Kattenberg, Carsten H., San Francisco, Calif. Cigar and cigarette ash retainer. No. 1,422,578; July 11.
- Katz, Joseph. (See Keagle, Bertus W., and Katz.)
- Katz, Joseph E. (See Costello, William J., assignor.)
- Katz, Millard M., et al. (See Ghegan, Harry G., assignor.)
- Katz, Robert E. (See Ward, Paul A., assignor.)
- Katz, Saul, Chicago, Ill. Call bell or signaling device. No. 1,428,237; Sept. 5.
- Katz, Solomon, Chicago, Ill. Convertible furniture. No. 1,430,740; Oct. 3.
- Katzenmoyer, Harry E., Reading, Pa., assignor to Scott and Williams, Inc., New York, N. Y. Tucking attachment for knitting machines. No. 1,404,124; Jan. 17.
- Katzenstein, Leon L., Worcester, Mass., assignor to Norton Company. Abrasive wheel for form grinding. No. 1,403,416; Jan. 10.
- Katzinger, Edward, assignor to Edward Katzinger Company, Chicago, Ill. Baking oven. No. 1,439,898; Dec. 26.
- Katzinger, Edward, Company. (See Jackson, Joseph G., assignor.)
- Katzinger, Edward, Company. (See Katzinger, Edward, assignor.)
- Kaucher, Richard W., Reading, and J. W. Barr, Sinking Spring, Pa. Fire door. No. 1,425,973; Aug. 15.
- Kauffman, Elias A., assignor to K. T. Manufacturing Company, Chicago, Ill. Pliers. No. 1,424,915; Aug. 8.
- Kauffman, Frederick. (See Smith, F. L., and Harris, assignors.)
- Kauber, Felix, assignor to Firm Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H. Munich, Germany. Manufacture of dichlorethylene. No. 1,419,969; June 20.
- Kaufman, Adam W., Milwaukee, Wis. Timer. No. 1,411,787; Apr. 4.
- Kaufman, Adam W., Milwaukee, Wis. Timer. No. 1,425,864; Aug. 15.
- Kaufman, Adolph G., New York, N. Y. Burner. No. 1,438,379; Dec. 12.
- Kaufman, Elmer E., Scranton, Pa. Thread guide for rewinding machines. No. 1,440,300; Dec. 26.
- Kaufman, Irving S., Chicago, Ill. Cuff link. No. 1,414,572; May 2.
- Kaufman, Martin, New York, N. Y. Toilet package. No. 1,427,820; Sept. 5.
- Kaufman, Maurice, et al. (See Spiegler, Mandel, assignor.)
- Kaufman, Michael, New Haven, Conn. Musical toy. No. 1,420,109; June 20.
- Kaufman, Morris L., Brooklyn, N. Y. Die. No. 1,419,056; June 6.
- Kaufmann, Carl H. (See Kaufmann, Charles F. L., C. H., and W. L.)
- Kaufmann, Charles F. L., C. H., and W. L., Santa Ana, Calif. Regulating device for spotlights. No. 1,433,380; Dec. 12.
- Kaufmann, David B., Cincinnati, Ohio. Fountain pen. No. 1,428,333; Sept. 5.
- Kaufmann, Frank J., and W. N. Marsden, Amsterdam, assignors, by mesne assignments, to The Equitable Trust Company of New York, trustee, New York, N. Y. Adherently uniting webs of fabric. No. 1,427,477; Aug. 29.
- Kaufmann, Harry A., Kansas City, Mo., assignor to H. S. Kaufmann, Minneapolis, Minn. Dishwasher. No. 1,439,823; Dec. 26.
- Kaufmann, Henrietta S. (See Kaufmann, Harry A., assignor.)
- Kaufmann, Jacob, Wilmersdorf, Germany. Producing in-laid work and the like. No. 1,416,212; May 16.
- Kaufmann, Siegfried H., London, England. Manicure case. No. 1,424,571; Aug. 1.
- Kaufmann, Waller L. (See Kaufmann, Charles F. L., C. H., and W. L.)
- Kaufmann, Waller L., Santa Ana, Calif. Automobile headlight. No. 1,412,470; Apr. 11.
- Kaufmann, Wilhelm. (See Sinkwitz, Rudolf, assignor.)
- Kaumagraph Company. (See Kislevitz, Samuel, assignor.)
- Kaupke, Lee H., assignor to Rock Island Plow Company, Rock Island, Ill. Cotton planter. No. 1,405,037; Jan. 31.
- Kauri Timber Company, Limited, The. (See Butler, Joseph, assignor.)
- Kaiser, George W., Chicago, Ill. Camera. No. 1,406,653; Feb. 14.
- Kavana, James, Chicago, Ill. Electric switch and means for locking it. No. 1,416,471; May 16.
- Kavanagh, Morgan R., et al. (See Throp, E. E., and Sutton, assignors.)
- Kawa, Marion, Buffalo, N. Y. Folding rack for drying photographic prints. No. 1,408,604; Mar. 7.
- Kawaguchi, Kuma, New York, N. Y. Lamp shade. No. 1,431,005; Oct. 3.
- Kawasaki, Utakichi, San Francisco, Calif. Check. No. 1,403,168; Jan. 10.
- Kawasaki, Utakichi, San Francisco, Calif. Cover-removing device. No. 1,409,728; Mar. 14.
- Kawasaki, Utakichi, San Francisco, Calif. Coin-delivering device. No. 1,420,631; June 27.
- Kawasaki, Utakichi, San Francisco, Calif. Bottle closure. No. 1,439,170; Dec. 19.
- Kay, Ansel R., Denver, Colo. Wordometer. No. 1,439,555; Dec. 19.
- Kay, Frederick H., Chicago, Ill. Pencil. No. 1,425,323; Aug. 8.
- Kay George A. (See Whitney, L. F., and Kay.)
- Kay, Robert N., et al. (See Schnetzer, Karl, assignor.)
- Kay, Samuel P., Rochester, N. Y. Hot-air furnace. No. 1,413,122; Apr. 18.
- Kay, Thomas G. (See Constantine, F. W., and Kay.)
- Kaye, John A., Sault Ste. Marie, Ontario, Canada. Berry picker. No. 1,406,874; Feb. 14.
- Kaye, Norris. (See Hargreaves, John, assignor.)
- Kaye, Stewart, Edinburgh, Scotland. Machine for erecting walls of brick and the like. No. 1,411,172; Mar. 28.
- Kaylor, Edward B., Detroit, Mich. Control mechanism for headlights. No. 1,433,080; Oct. 24.
- Kaynee Company, The. (See Alexander, Benjamin, assignor.)

Alphabetical list of patentees—Continued.

- Kayser, Gustav H. F., Whitaker, Pa. Tap wrench. No. 1,413,660; Apr. 25.
- Kayser, Julius & Co. (See Boadwee, Russell K., assignor.)
- Kayser, Mary, Baltimore, Md. Method and apparatus for waving hair. No. 1,419,933; June 20.
- Kazenmaier, August, assignor to Firm Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Flywheel magneto. No. 1,424,201; Aug. 1.
- Kazienko, Julian, Rosebank, N. Y. Color-sifting machine. No. 1,432,866; Oct. 24.
- Keachler, Lewis, assignor of one-half to N. C. Strayer, Philadelphia, Pa. Furniture fixture. No. 1,427,958; Sept. 5.
- Keagle, Bertus W., and J. Katz, Lewistown, Pa. Vacuum cleaner for automobiles. No. 1,409,183; Mar. 14.
- Keagle, Charles R., Joliet, Ill. Mowing machine. No. 1,425,489; Aug. 8.
- Keane, George A., New York, N. Y. Sectional table. No. 1,410,476; Mar. 21.
- Kearney, John A., Wilson, N. C. Holddown device. No. 1,429,952; Sept. 26.
- Kearney, Nellie, Holyoke, Mass. Doll. No. 1,425,974; Aug. 15.
- Kearney, Samuel E., Los Angeles, Calif. Combined inventory envelope and ticket. No. 1,413,123; Apr. 18.
- Kearney, W. J., et al. (See Smartt, Brinay, assignor.)
- Kearns, William, and H. P. Connelly, Detroit, Mich., assignors to Morgan & Wright. Apparatus for re-finishing blemished tires. No. 1,431,403; Oct. 10.
- Keast, Ernest, Negaunee, Mich. Excavating and loading machine. No. 1,422,767; July 11.
- Keating, John B., Piedmont, Calif. Submersible pump and the like. No. 1,428,238; Sept. 5.
- Keatley, James G., Denver, Colo. Pipe cutter. No. 1,428,288; Sept. 5.
- Keblor, Leonard, Bronxville, N. Y., assignor to Ward Leonard Electric Company. Rheostat. No. 1,402,772; Jan. 10.
- Keblor, Leonard, Bronxville, N. Y., assignor to Ward Leonard Electric Company. Spark plug. No. 1,403,501; Jan. 17.
- Keck, Christian. (See Wehrman, William G., assignor.)
- Keck, George E., Kansas City, Mo., and F. K. Cuddy, Amarillo, Tex. Work garment. No. 1,405,421; Feb. 7.
- Keck, Robert, assignor to The Double-Drive Truck Company, Chicago, Ill. Universal joint. No. 1,418,380; June 6.
- Keck, Robert, assignor to The Double-Drive Truck Company, Chicago, Ill. Driving mechanism for vehicles. No. 1,435,162; Nov. 14.
- Keckeis, José, Portland, Oreg. Game of skill. No. 1,415,364; May 9.
- Keckeis, José, Portland, Oreg. Toy shooting gallery. No. 1,415,365; May 9.
- Keckler, Charles W., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,419,569; June 13.
- Keckler, Earl A., Brilliant, Ohio. Hanging flytrap. No. 1,419,859; June 13.
- Kee, Robert H., assignor to Mun-Kee Products Corporation, Los Angeles, Calif. Ink pad and making the same. No. 1,429,354; Sept. 19.
- Kee, Robert H., and W. K. Munson, Los Angeles, Calif., assignors to Mun-Kee Products Corporation. Resilient stamp pad. No. 1,421,952; July 4.
- Keegan, Charles R. (See Stevens, Frank, assignor.)
- Keegan, Francis W. (See Donovan, A. J., and Pokorny, Jr., assignors. (Reissue.)
- Keegan, Joseph P., Newark, N. J. Sounding device. No. 1,439,672; Dec. 19.
- Keehan, Michael E., and J. J. Glass, Chicago, Ill. Coupling for train-pipe-connection hose. No. 1,429,593; Sept. 19.
- Keehn, Clarence C., assignor to The Lisk Manufacturing Company, Ltd., Canandaigua, N. Y. Sustaining means for infants' bathtubs. No. 1,422,718; July 11.
- Keeler, Frank F., Sr., assignor of one-half to T. R. Baker, Indianapolis, Ind. Combined shock absorber and spring support. No. 1,419,268; June 13.
- Keeler, Herbert E., Chicago, Ill. Ice pick. No. 1,437,425; Dec. 5.
- Keeler, Hugh E., et al. (See Bolenbaugh, Burton R., C., and R. S., and Long, assignors.)
- Keen, Harold P., Bellevue, Del., and D. D. Huyett, Ardmore, Pa. Thermostatically-operated ammonia expansion valve. No. 1,408,744; Mar. 7.
- Keenan, Walter F., Jr., New York, N. Y., assignor to Power Specialty Company. Superheater support. No. 1,416,835; May 23.
- Keenan, Walter F., Jr., assignor to Power Specialty Company, New York, N. Y. Air heater for furnaces. No. 1,421,247; June 27.
- Keenaw, Patrick J. (See Davis, David S., assignor.)
- Keene, Edward W. W., Bristol, England. Filtering apparatus. No. 1,429,913; Sept. 19.
- Keene, Rose E. (See Arbaugh, H. A., and Keene.)
- Keene, Wendell P., Brooklyn, N. Y., assignor to Underwood Typewriter Company. Typewriting machine. No. 1,419,970; June 20.
- Keener, George I. (See Taylor, Ray, assignor.)
- Keeney, Merrill E., San Francisco, Calif. Switch lock. No. 1,410,257; Mar. 21.
- Keeney, Robert M., Denver, Colo. Electric reverberatory furnace. No. 1,438,381; Dec. 12.
- Keeney, Robert M., and P. J. Lonergan, Jr., Denver, Colo.; said Lonergan assignor to said Keeney. Electrode holder. No. 1,406,741; Feb. 14.
- Keeno Keyless Lock Company. (See Shannon, Thomas E., assignor.)
- Keeran, Charles R., Chicago, Ill. Pressure indicator. No. 1,414,474; May 2.
- Keeran, Charles R., Chicago, Ill. Jar closure. No. 1,425,594; Aug. 15.
- Keeran, Charles R., Chicago, Ill. Receptacle closure. No. 1,430,169; Sept. 26.
- Keeran, Charles R., assignor to Realite Pencil Manufacturing Company, Chicago, Ill. Combined eraser and lead holder. No. 1,432,468; Oct. 17.
- Keeran, Charles R., and F. R. Taylor, assignors, by mesne assignments, to Autopoint Manufacturing Company, Chicago, Ill. Pencil. No. 1,426,744; Aug. 22.
- Keesing, Isaac, Jr., Amsterdam, Netherlands. Sealing apparatus. No. 1,416,836; May 23.
- Keeth, James, Spokane, Wash. Treating biotite. No. 1,430,085; Sept. 26.
- Keeton, Monroe, Meridian, Miss. Firecracker holder. No. 1,401,985; Jan. 3.
- Keever Starch Company, The. (See McVeigh, Edgar N., assignor.)
- Kehl, George A., St. Paul, Minn. Sand toy. No. 1,425,865; Aug. 15.
- Kehm, August, Chicago, Ill. Radiator support. No. 1,429,742; Sept. 19.
- Kehoe, Charles S., et al., executors. (See Barratt, William T., assignor.)
- Kehoe, Thomas J., assignor to The Willys-Overland Company, Toledo, Ohio. Making radiator cores. No. 1,404,030; Jan. 17.
- Kehoe, Thomas J., assignor to The Willys-Overland Company, Toledo, Ohio. Radiator. No. 1,410,102; Mar. 21.
- Kehoe, Thomas J., assignor to The Willys-Overland Company, Toledo, Ohio. Radiator for automobiles. No. 1,416,837; May 23.
- Kehoe, Thomas J., assignor to The Willys-Overland Company, Toledo, Ohio. Window-lifting device. No. 1,439,899; Dec. 26.
- Kehr, John F., assignor of one-fourth to A. M. Craynok, Jr., and one-fourth to J. J. Bumbera, Trenton, N. J. Radiator for motor vehicles. No. 1,409,865; Mar. 14.
- Kehres, George W., Elkhart, Ind. Roller. No. 1,408,605; Mar. 7.
- Keil, Ernst, Dayton, Ohio. Spark-plug cleaner. No. 1,438,834; Dec. 12.
- Keilholtz, Lester S., assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Signaling device. No. 1,421,953; July 4.
- Keilholtz, Lester S., assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Engine. No. 1,435,528; Nov. 14.
- Keiller, George. (See Burns, E. Z., and Keiller.)
- Keillor, Joseph D., Aylmer, Ontario, Canada. Furnace. No. 1,439,003; Dec. 19.
- Keim, Lester H., Chicago, Ill., assignor to R. D. Nuttall Company. Transmission mechanism. No. 1,431,958; Oct. 17.
- Keim, Lester H., Chicago, Ill., assignor to R. D. Nuttall Company. Tractor transmission mechanism. No. 1,431,959; Oct. 17.
- Keim, Lester H., Chicago, Ill., assignor to R. D. Nuttall Company. Transmission mechanism. No. 1,431,960; Oct. 17.
- Keim, Lester H., Chicago, Ill., assignor to R. D. Nuttall Company. Transmission mechanism. No. 1,435,242; Nov. 14.
- Keiser, Arthur J., assignor to The Bircher Co., Inc., Rochester, N. Y. Envelope-sealing machine. No. 1,426,745; Aug. 22.
- Keister, Perry A., Cedar Rapids, Iowa. Railway weeder and reshoulder machine. No. 1,429,680; Sept. 19.
- Keith, Alexander E., Hinsdale, assignor to Automatic Electric Company, Chicago, Ill. Telephone transmitter. No. 1,412,080; Apr. 11.
- Keith, Boyd B., Mansfield, Ohio. Toy airship. No. 1,427,396; Aug. 29.
- Keith, Christopher H., and N. G. Madge, Providence, R. I., assignors to Revere Rubber Company. Deresinating and purifying balata. No. 1,406,654; Feb. 14.
- Keith, Daniel W., Keithville, La. Pump. No. 1,413,165; Apr. 18.
- Keith, David F., Toronto, Ontario, Canada. Safety blow-out. No. 1,426,650; Aug. 22.
- Keith, Frederick R., Randolph, Mass. Rubber heel and making the same. No. 1,426,198; Aug. 15.
- Keith, George, and D. B. Bain, London, England. Heating and drying apparatus. No. 1,411,729; Apr. 4.
- Keith, George, and W. A. Whatmough, London, England. Means for controlling the supply of combustible mixture to internal-combustion engines. No. 1,422,987; July 18.
- Keith, George, assignor to James Keith & Blackman Company, Limited, London, England. Gas burner. No. 1,413,661; Apr. 25.
- Keith, George, London, and John E. Pointon, Peterborough, assignors to James Keith & Blackman Company, Limited, London, England. Safety cut-out device for use on gas-supply systems. No. 1,427,821; Sept. 5.

Alphabetical list of patentees—Continued.

- Keith, Harold L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,425,662; Aug. 15.
- Keith, Henry M., West Frankfort, Ill. Pump. No. 1,411,173; Mar. 28.
- Keith, Hugh, Jr. (See Courtney, Thomas L., assignor.)
- Keith, James, & Blackman Company. (See Keith, G., and Pointon, assignors.)
- Keith, James, & Blackman Company. (See Keith, George, assignor.)
- Keith, Lewis W., Greenville, S. C. Wrench. No. 1,424,202; Aug. 1.
- Keith, William C., Voth, Tex. Device for withdrawing samples from wells. No. 1,431,528; Oct. 10.
- Keithley, Herbert R., Jr., administrator. (See Keithley, Herbert R.)
- Keithley, Herbert R., deceased, Michigan City, Ind.; Herbert R. Keithley, Jr., administrator. Car wheel. No. 1,412,617; Apr. 11.
- Keithline, Joseph S., Askam, Pa. Filter. No. 1,430,234; Sept. 26.
- Kellam, Albert E., Leichhardt, near Sydney, New South Wales, Australia. Manufacture of paints. No. 1,408,091; Feb. 28.
- Keller, Abraham, San Francisco, Calif. Safety device for doors. No. 1,414,285; Apr. 25.
- Keller, Arnold B., et al., trustees. (See Cameron, William W., assignor.)
- Keller, Camden C., assignor of one-third to T. Lavier, jr., and one-third to R. R. Fisher, Ypsilanti, Mich. Flash light. No. 1,438,531; Dec. 12.
- Keller, Elsie. (See Suedmeyer, Louis, assignor.)
- Keller, Emil, Vienna, Austria. Manufacturing paper tubings. No. 1,412,018; Apr. 4.
- Keller, Ernest, Woodhaven, assignor to National Pneumatic Company, New York, N. Y. Door-controlled locking mechanism for vehicles. No. 1,427,212; Aug. 29.
- Keller, Ernest U., Pawhuska, Okla. Socket and bowl for fishing tools. No. 1,407,867; Feb. 28.
- Keller, Frank E., Carnegie, Okla. Battery holder and fastener. No. 1,430,741; Oct. 3.
- Keller, George E. (See Koenneke, H. P., and Miller, assignors.)
- Keller, Harry, Chicago, Ill. Rivet breaker. No. 1,419,269; June 13.
- Keller, Herman A., Barrington, Ill., assignor to Kabo Corset Company. Buckle. No. 1,436,880; Nov. 28.
- Keller, Herman D., assignor to Kell-Oil Heater Company, Coldwater, Mich. Orchard heater. No. 1,419,570; June 13.
- Keller, Huldreich, deceased, by K. Keller, administratrix, assignor to Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie., Zurich, Switzerland. Gear wheel. No. 1,424,203; Aug. 1.
- Keller, James D., Detroit, Mich. Knee boot. No. 1,417,742; May 30.
- Keller, Jeremiah, Chicago, Ill., assignor to J. E. Rosenfeld, Omaha, Nebr. Rotary valve for internal-combustion engines. No. 1,406,986; Feb. 21.
- Keller, John D., Sacramento, Calif. Reciprocating pump. No. 1,408,092; Feb. 28.
- Keller, John D., Sacramento, Calif. Pump. No. 1,437,147; Nov. 28.
- Keller, John E., Independence, Kans. Well-casing ripper. No. 1,417,331; May 23.
- Keller, John F., Ottoville, Ohio. Rat trap. No. 1,406,028; Feb. 7.
- Keller, John F., Pearl, assignor to C. F. Anderson and J. R. Mitchell, Jacksonville, Ill. Dirigible headlight. No. 1,415,243; May 9.
- Keller, John L., Charleston, W. Va. Molding composition. No. 1,421,954; July 4.
- Keller, Karl, assignor to J. H. White Manufacturing Company, Brooklyn, N. Y. Alarm for automobile radiators. No. 1,417,332; May 23.
- Keller, Karl, assignor to J. H. White Manufacturing Company, Brooklyn, N. Y. Lighting fixture. No. 1,423,331; July 18.
- Keller, Katharina, administratrix. (See Keller, Huldreich.)
- Keller, Mary V., Ulrichsville, Ohio. Ironing appliance. No. 1,431,740; Oct. 10.
- Keller, Simeon A., Knoxville, Tenn. Incubator. No. 1,410,065; Mar. 21.
- Keller, Theodore, New York, N. Y. Changeable sign. No. 1,411,439; Apr. 4.
- Keller, Theodore, assignor of one-half to M. Michel, New York, N. Y. Changeable sign. (Reissue.) No. 15,454; Sept. 12.
- Keller, Walter D., assignor to The Alliance Machine Company, Alliance, Ohio. Briquetting machine. No. 1,404,441; Jan. 24.
- Keller, William H., Inc. (See Keller, W. H., Maximilian, and Schinkez, assignors.)
- Keller, William H., Grand Haven, Mich. Pneumatic tool. No. 1,420,318; June 20.
- Keller, William H., M. Maximilian, and A. Schinkez, assignors to William H. Keller, Inc., Grand Haven, Mich. Fluid-pressure motor. No. 1,427,157; Aug. 29.
- Kelley, Arthur A., assignor of one-half to J. K. Higgins, Spokane, Wash. Detonating door-fastening device. No. 1,403,502; Jan. 17.
- Kelley, Benjamin F., Tulsa, Okla. Casing spider and slips. No. 1,405,223; Jan. 31.
- Kelley, Benjamin F., assignor of one-fourth to R. A. Griffith, one-fourth to T. J. McKinney, Tulsa, Okla., and one-fourth to W. K. Hughes, St. Louis, Mo. Socket. No. 1,406,029; Feb. 7.
- Kelley, Benjamin F., Tulsa, Okla., assignor of one-fourth to W. K. Hughes, St. Louis, Mo., and one-fourth to D. D. Myers, Tulsa, Okla. Combined swab and valve for wells. No. 1,421,248; June 27.
- Kelley, Charles H., Pittsburgh, Pa. Grease cup. (Reissue.) No. 15,300; Mar. 7.
- Kelley, Edmond, Boston, Mass. Motor for beaters. No. 1,413,662; Apr. 25.
- Kelley, Elizabeth P., Philadelphia, Pa. Medicinal compound for external use as a plaster or ointment. No. 1,414,815; May 2.
- Kelley, Emmor H., and G. A. Stewart, Jr., South Brownsville, Pa. Portable crane. No. 1,416,958; May 23.
- Kelley, George L., Buffalo, N. Y. Metal-routing machine. No. 1,420,319; June 20.
- Kelley, Irvin M., Laconia, N. H. Knitting machine. No. 1,437,109; Nov. 28.
- Kelley, James W., Oakville, Ontario, Canada. Bicycle crank-hanger construction. No. 1,430,235; Sept. 26.
- Kelley, Martin V., Company, The. (See Giffen, Burr E., assignor.)
- Kelley, William V. D., Brooklyn, N. Y., assignor to Prizma, Incorporated. Bleached and colored image and making the same. No. 1,411,968; Apr. 4.
- Kelley, William V. D., New York, N. Y., and C. H. Dunning, Somerville, N. J., assignors to Prizma Incorporated. Motion-picture film. No. 1,431,309; Oct. 10.
- Kellie, Charles. (See Fowler, E. J., and Kellie.)
- Kellington, John, Vancouver, British Columbia, Canada. Fish gutting and cleaning machine. No. 1,430,816; Oct. 3.
- Kellner, Louis, New York, N. Y. Double-throw safety switch. No. 1,402,297; Jan. 3.
- Kellogg, Carl A., Brooklyn, N. Y. Printing machine. No. 1,411,788; Apr. 4.
- Kellogg, Carl A., Brooklyn, N. Y. Web-printing press. No. 1,411,789; Apr. 4.
- Kellogg, Charles B., assignor of one-half to E. U. Knight, Chicago, Ill. Display stand. No. 1,411,281; Apr. 4.
- Kellogg, Chester A., Bartonville, Ill., assignor, by mesne assignments, to The Union Trust Company, Cleveland, Ohio, and J. A. Chapman, Chicago, Ill., trustees. Method and apparatus for firing furnaces. No. 1,402,773; Jan. 10.
- Kellogg, Edward W., Schenectady, N. Y., assignor to General Electric Company. Radioreceiving system. No. 1,424,707; Nov. 7.
- Kellogg, Edward W., and C. W. Rice, Schenectady, N. Y., assignors to General Electric Company. Radioreceiving system. No. 1,435,009; Nov. 7.
- Kellogg, Edwin M., Moline, Ill. Repeating mechanism for phonographs. No. 1,407,547; Feb. 21.
- Kellogg, John H., Battle Creek, Mich. Dental device. No. 1,408,889; Mar. 7.
- Kellogg, John K., Berkeley, Calif. Clasp affixing and detaching device. No. 1,402,618; Jan. 3.
- Kellogg, Leroy, Chicago, Ill. Photometer chart. No. 1,419,385; June 13.
- Kellogg, Leroy D., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Ignition and lighting switch. No. 1,421,493; July 4.
- Kellogg, M. W., Company, The. (See Johnson, Francis E., Jr., assignor.)
- Kellogg Manufacturing Co. (See Hazard, George E., assignor.)
- Kellogg Switchboard and Supply Company. (See Bohlman, Ernest A., assignor.)
- Kellogg Switchboard Supply Company. (See Currier, H. D., and Ide, assignors. (Reissue.)
- Kellogg Switchboard and Supply Company. (See Currier, Hiram D., assignor.)
- Kellogg Switchboard and Supply Company. (See Dean, William W., assignor.)
- Kellogg Switchboard and Supply Company. (See Hayden, Jesse F., assignor.)
- Kellogg Switchboard and Supply Company. (See Hilbish, John E., assignor.)
- Kellogg Switchboard and Supply Company. (See Ide, Harry H., assignor.)
- Kellogg Switchboard and Supply Company. (See Kaisling, William, assignor.) (Reissue.)
- Kellogg Switchboard and Supply Company. (See Kellogg, Leroy D., assignor.)
- Kellogg Switchboard and Supply Company. (See Mueller, George E., assignor.)
- Kellogg Switchboard & Supply Company. (See Scharf, Frank W., assignor.)
- Kellogg Switchboard and Supply Company. (See Sparks, Charles, assignor.)
- Kellogg Switchboard and Supply Company. (See Suckoff, Samuel, assignor.)
- Kellogg Switchboard & Supply Company. (See Webster, Harry G., assignor.)
- Kellogg Switchboard and Supply Company. (See White, Harold T., assignor.)
- Kellogg Switchboard and Supply Company. (See Yanochowski, George A., assignor.)
- Kellogg Toasted Corn Flake Company. (See Foster, Peter W., assignor.)

- Kell-Oil Heater Company. (See Keller, Herman D., assignor.)
- Kellow, Warren G., Los Angeles, Calif. Tilting mechanism for dolls' eyes. No. 1,404,970; Jan. 31.
- Kells, Charles E., New Orleans, La. Water-distilling apparatus. No. 1,404,971; Jan. 31.
- Kells, Charles E., New Orleans, La. Water-distilling apparatus. No. 1,404,972; Jan. 31.
- Kells, Charles E., New Orleans, La. Dental appliance. No. 1,418,445; June 6.
- Kellum, Orlando E., Los Angeles, Calif. Automatic sound control for phonographs and the like. No. 1,431,119; Oct. 3.
- Kelly, Adelbert F., Spokane, Wash. Split spring-wheel felly rim. No. 1,412,352; Apr. 11.
- Kelly, Ambrose V., Brooklyn, N. Y. Fireproof door. No. 1,408,302; Feb. 28.
- Kelly, Andrew J., assignor of one-half to J. I. Kelly, Baltimore, Md. Convertible vehicle. No. 1,435,609; Nov. 14.
- Kelly, Cornelius J., and H. H. Shumway, jr., Taunton, Mass. Self-threading shuttle eye for automatic looms. No. 1,433,208; Oct. 24.
- Kelly, Edwin W., Oak Park, assignor, by mesne assignments, to Victor X-Ray Corporation, Chicago, Ill. Electrical vacuum discharge device. No. 1,414,741; May 2.
- Kelly, George, Los Angeles, Calif. Adjustable stage clamp. No. 1,432,601; Oct. 17.
- Kelly, Geo. J., Inc. (See Matter, Albert J., assignor.)
- Kelly, Gerald P., New York, N. Y. Paper display box. No. 1,414,363; May 2.
- Kelly, Henry D., Kansas City, Mo. Combination faucet. No. 1,419,386; June 13.
- Kelly, James F., Newton, assignor to O'Hara Waltham Dial Co., Inc., Waltham, Mass. Printing on vitrified ware. No. 1,433,892; Oct. 31.
- Kelly, James J., assignor to Thomas Cusack Company, Chicago, Ill. Vehicle body. No. 1,428,239; Sept. 5.
- Kelly, James P., New York, N. Y. Wristlet. No. 1,407,658; Feb. 21.
- Kelly, James P., New York, N. Y. Cord tip. No. 1,420,632; June 27.
- Kelly, James P., New York, N. Y. Cord tip. No. 1,420,657; June 27.
- Kelly, James P., New York, N. Y. Cord tip. No. 1,425,384; Aug. 8.
- Kelly, John, Chicago, Ill. Bottle closure. No. 1,420,320; June 20.
- Kelly, John, Norfolk, Va. Window display apparatus. No. 1,435,856; Nov. 14.
- Kelly, John F., assignor to Thomas Maddock's Sons Co., Trenton, N. J. Lavatory. No. 1,406,030; Feb. 7.
- Kelly, John F., assignor to Thomas Maddock's Sons Co., Trenton, N. J. Lavatory. No. 1,424,250; Aug. 1.
- Kelly, John F., assignor to Thomas Maddock's Sons Co., Trenton, N. J. Faucet attachment for lavatories. No. 1,424,251; Aug. 1.
- Kelly, John F., Chicago, Ill., assignor, by mesne assignments, to Kelly Valve Company, Muskegon, Mich. Boiler controller. No. 1,433,727; Oct. 31.
- Kelly, John F., assignor to Thomas Maddock's Sons Co., Trenton, N. J. Sanitary bowl. No. 1,435,644; Nov. 14.
- Kelly, John I., (See Kelly, Andrew J., assignor.)
- Kelly, John W., Silver City, Miss. Stalk cutter. No. 1,410,320; Mar. 21.
- Kelly, Martin T. A., Joliet, Ill. Window lock. No. 1,416,035; May 16.
- Kelly, McBride L., Thomasville, Ga. Churn. No. 1,428,438; Sept. 5.
- Kelly, Mervin J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device and making the same. No. 1,432,867; Oct. 24.
- Kelly, Michael B., (See Scanlon, H. J., and Kelly.)
- Kelly, O. S., Company, The. (See Fisher, Charles W., assignor.)
- Kelly, Raymond, assignor to S. F. Joor, Chicago, Ill. Eyeglass holder. No. 1,438,532; Dec. 12.
- Kelly, Robert E., Jacksonville, Fla. Back brace. No. 1,417,250; May 23.
- Kelly, Roy H., assignor of one-half to F. S. Bowman, Fulton, N. Y. Air pump. No. 1,437,184; Nov. 28.
- Kelly-Springfield Tire Company. (See Cullen, Julien F., assignor.)
- Kelly-Springfield Tire Company. (See de Giers, Clarence A., assignor.)
- Kelly-Springfield Tire Company. (See McClenathen, Robert, assignor.)
- Kelly-Springfield Tire Company. (See Sherwood, Frederick W., assignor.)
- Kelly-Springfield Tire Company. (See Waters, Reginald H., assignor.)
- Kelly, Stephen, Louisville, Ky. Excavating machine. No. 1,437,594; Dec. 5.
- Kelly, Thomas C., et al. (See Hagerty, Robert J., assignor.)
- Kelly, Thomas D., Hove, England. Spring suspension for cycles. No. 1,438,919; Dec. 12.
- Kelly, Thomas H. J., Edgewood, R. I. Oil burner. No. 1,408,948; Mar. 7.
- Kelly, Thomas W., and C. Fingle, Belton, Tex. Weed and grass cutter for railways. No. 1,409,011; Mar. 7.
- Kelly Valve Company. (See Kelly, John F., assignor.)
- Kelly, Walter, Uvalde, Tex. Billboard. No. 1,437,315; Nov. 28.
- Kelly, William A., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Invoice sheet. No. 1,428,102; Sept. 5.
- Kelly, William A., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Invoice sheet. No. 1,429,436; Sept. 19.
- Kelly, William E., Cleveland, Ohio. Toilet instrument. No. 1,425,776; Aug. 15.
- Kelly, William E., Cleveland, Ohio. Propeller attachment for vehicles. No. 1,425,777; Aug. 15.
- Kelly, William E., Cleveland, Ohio. Cutter-holding means for boring bars. No. 1,435,709; Nov. 14.
- Kelly, William J., Youngstown, Ohio. Hose supporter. No. 1,407,200; Feb. 21.
- Kelly, William M., Jersey City, N. J. Paper-feeding mechanism. No. 1,424,916; Aug. 8.
- Kelman, Joseph N., Los Angeles, Calif. Cushion for vehicles. No. 1,404,031; Jan. 17.
- Kelsall, Rachel, London, England. Workbox for domestic use. No. 1,408,093; Feb. 28.
- Kelsay, Le Roy W., assignor to Western Electric Company, Incorporated, New York, N. Y. Switching key. No. 1,422,447; July 11.
- Kelsay, Le Roy W., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic hand telephone. No. 1,435,243; Nov. 14.
- Kelsea, Clarence H., Belmont, assignor to Peter Gray & Sons Inc., Cambridge, Mass. Method and apparatus for protecting signal apparatus from false colored signals. No. 1,421,249; June 27.
- Kelsey, Frank N., assignor of one-half to A. H. Bowditch, New Haven, Conn. Signal valve. No. 1,434,708; Nov. 7.
- Kelsey, Jesse E., Theresa, N. Y. Direction indicator. No. 1,417,251; May 23.
- Kelsey, Lester L., Pershing, Okla. Sand trap for wells. No. 1,431,006; Oct. 3.
- Kelsey Wheel Company. (See Batie, Joseph E., assignor.)
- Kelsey Wheel Company. (See Booth, William N., assignor.)
- Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Coupling and yoke connection for draft rigging. No. 1,403,251; Jan. 10.
- Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Coupling and yoke connection. No. 1,404,860; Jan. 31.
- Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Uncoupling mechanism. No. 1,417,606; May 30.
- Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Draft rigging. No. 1,439,739; Dec. 26.
- Keltner, Amos L., El Dorado, Kans. Tractor-controlling mechanism. No. 1,434,389; Nov. 7.
- Keltner, Henry O., et al., trustees. (See Rimmer, Robert C., assignor.)
- Kelvin Bottomley & Baird Limited. (See Field, Michael B., assignor.)
- Kelvinator Corporation. (See Denny, James H., assignor.)
- Kelvinator Corporation. (See Heideman, F. J., and Hadjisky, assignors.)
- Kelvinator Corporation. (See Kolbe, F. H., and De Luiz, assignors.)
- Kelvinator Corporation. (See Kolbe, Frederick H., assignor.)
- Kelvinator Corporation. (See Wicks, Maurice A., assignor.)
- Kemmerer, Walter, Clinton, Wis. Loading apparatus. No. 1,428,240; Sept. 5.
- Kemp, Charles B., New York, N. Y. Golf-bag ball receptacle. No. 1,421,955; July 4.
- Kemp, James R., Newbury, England. Rotary engine adaptable as motor, pump, or meter. No. 1,407,426; Feb. 21.
- Kemp, James R., Newbury, England. Rotary engine adaptable as motor, pump, or meter. No. 1,407,659; Feb. 21.
- Kemp, Robert, Elmhurst, N. Y., assignor to M. H. Avram & Co., Inc. Electrical heating appliance. No. 1,411,663; Apr. 4.
- Kemp, Robert, Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Propeller. No. 1,433,728; Oct. 31.
- Kemp, Robert, Washington, D. C., assignor to Westinghouse Electric & Manufacturing Company. Joint for stream linings. No. 1,433,729; Oct. 31.
- Kemp, Robert, Troy, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Structural element. No. 1,435,244; Nov. 14.
- Kemp, Robert, and F. H. Johnson, Buffalo, N. Y., assignors to Westinghouse Electric & Manufacturing Company. Structural element. No. 1,414,419; May 2.
- Kemp, Vern W., (See Hayes, L. B., and Kemp.)
- Kemp, William, St. Louis, Mo. Pressure or draft gauge. No. 1,428,565; July 25.
- Kemp, William E., New York, N. Y. Fuel-feeding device for internal-combustion engines. No. 1,411,034; Mar. 28.
- Kemp, William W., and W. H. Van Horn, Baltimore, Md. Apparatus for and method of heating metal. No. 1,404,615; Jan. 24.

Alphabetical list of patentees—Continued.

- Kemp, William W., and W. H. Van Horn, Baltimore, Md. Automatic air and gas mixing machine. No. 1,420,658; June 27.
- Kemper, Charles W. and J. T., Alameda, Calif. Cable clamp. (Reissue.) No. 15,290; Feb. 21.
- Kemper, Charles W. and J. T., Alameda, Calif. Cable clamp. No. 1,410,759; Mar. 28.
- Kemper, Charles W. and J. T., Alameda, Calif. Cable clamp. No. 1,411,730; Apr. 4.
- Kemper, Charles W. and J. T., Alameda, Calif. Cable clamp. No. 1,411,731; Apr. 4.
- Kemper, John T. (See Kemper, Charles W. and J. T.) (Reissue.)
- Kemper, William H., Montgomery, Ala. Agricultural machine. No. 1,417,999; May 30.
- Kempin, Richard A. (See Hoppe, Oscar, assignor.)
- Kempter, Fritz, Stuttgart, Germany. Control device for air accumulators. No. 1,436,987; Nov. 28.
- Kempton, Alonzo F., Wawanesa, Manitoba, Canada. Belt hanger. No. 1,410,925; Mar. 28.
- Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Composite laminated body. No. 1,414,420; May 2.
- Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulation and making same. No. 1,416,036; May 16.
- Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Process and apparatus for forming laminated rods and tubes. No. 1,417,743; May 30.
- Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Conduit plow. No. 1,421,250; June 27.
- Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Self-lubricating bearing and making the same. No. 1,430,560; Oct. 3.
- Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc shield. No. 1,431,961; Oct. 17.
- Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Molded insulation and making same. No. 1,431,962; Oct. 17.
- Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turnbuckle. No. 1,438,601; Dec. 12.
- Kempton, Willard H., and O. F. Rowe, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Fan. No. 1,430,561; Oct. 3.
- Kempton, Willard H., B. J. Gudge, Wilkinsburg, and F. P. Laufer, Irwin, Pa., assignors to Westinghouse Electric & Manufacturing Company. Generator stream lining. No. 1,433,730; Oct. 31.
- Kemter, Paul M., Clermont, N. Y. Collar fastener. No. 1,402,867; Jan. 10.
- Kendall, Agnes B., Smith Center, Kans. Milk-bottle cap. No. 1,426,994; Aug. 22.
- Kendall, Allen B., Maywood, Ill., assignor to Regan Safety Devices Company, Inc. Three-position tractive relay. No. 1,433,951; Oct. 31.
- Kendall, Allen B., Maywood, Ill., assignor to Regan Safety Devices Company, Inc. Locking devices for relay armatures. No. 1,433,952; Oct. 31.
- Kendall, Clarence, W. E. and O. M., and W. M. Hancock, Houston, Tex. Visible indicating system for oil and displaying dispensing systems. No. 1,417,530; May 30.
- Kendall, Donald S., East Orange, assignor to Condensite Company of America, Bloomfield, N. J. Making a phenolic condensation product. No. 1,418,718; June 6.
- Kendall, Earl. (See Wassman, F. C., and Kendall.)
- Kendall, Edwin J., Beaver Cove, British Columbia, Canada. Box opener. No. 1,425,385; Aug. 8.
- Kendall, Ella A., San Francisco, Calif. Garter purse. No. 1,409,866; Mar. 14.
- Kendall, Henry A., Baltimore, Md. Apparatus for making nitrocellulose. No. 1,410,814; Mar. 28.
- Kendall, Myron A., assignor to Stephens-Adamson Mfg. Co., Aurora, Ill. Self-training belt conveyer. No. 1,423,528; July 25.
- Kendall, Myron A., assignor to Stephens-Adamson Mfg. Co., Aurora, Ill. Leer conveyer. No. 1,432,341; Oct. 17.
- Kendall, Odin M. (See Kendall, Clarence, W. E., and O. M., and Hancock.)
- Kendall, Olindus F., Cambridge, Mass. Transmission band lining. No. 1,432,758; Oct. 24.
- Kendall, William E. (See Kendall, Clarence, W. E., and O. M., and Hancock.)
- Kendall, William G., Newark, N. J. Vanity case. No. 1,409,867; Mar. 14.
- Kendall, William G., Newark, N. J. Vanity case. No. 1,417,333; May 23.
- Kendall, William G., Newark, N. J. Vanity-case partition. No. 1,425,490; Aug. 8.
- Kendall, William G., Newark, N. J. Partition for vanity cases. No. 1,428,890; Sept. 12.
- Kendall, William G., Newark, N. J. Vanity case. No. 1,436,504; Nov. 21.
- Kendall, William G., Newark, N. J., assignor to H. Rigaud, New York, N. Y. Press. No. 1,414,881; May 2.
- Kendall, William G., Newark, N. J., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity case. No. 1,438,835; Dec. 12.
- Kendecky, Andrew, Cleveland, Ohio. Lock. No. 1,415,651; May 9.
- Kendecky, Andrew, Cleveland, Ohio. Auto theft protection. No. 1,423,432; July 18.
- Kendrick, Zebulon V., Charlotte, N. C. Automobile lift. No. 1,436,766; Nov. 28.
- Kendzierski, Joseph, Minneapolis, Minn. Animal trap. No. 1,424,827; Aug. 8.
- Kenefic, Edward B. (See Blanchard, T. R., and Kenefic.)
- Kener, Edward, Jr., Buffalo, N. Y. Combination range. No. 1,409,344; Mar. 14.
- Kengel, George J., assignor to The Eclipse Interchangeable Counterbore Company, Detroit, Mich. Locking device for boring or other tools. No. 1,413,280; Apr. 18.
- Kenkel, John E., Great Falls, Mont. Dispensing machine. No. 1,428,439; Sept. 5.
- Kenmonth, Alton S., assignor to J. Garrigues, Los Angeles, Calif. Engine. No. 1,405,224; Jan. 31.
- Kennan, Thomas, Birmingham, Ala. Sealing of cracks in the lining of blast furnaces and the like. No. 1,423,332; July 18.
- Kenne, Casper A., Whittemore, Iowa. Supporting attachment for violins. No. 1,431,007; Oct. 3.
- Kennedy, Anthony, Drexel Hill, assignor to The Hollar Company, Philadelphia, Pa. Safe or vault wall. No. 1,425,324; Aug. 8.
- Kennedy, Bert, assignor to Ken-Wel Sporting Goods Co., Gloversville, N. Y. Baseball glove. No. 1,435,478; Nov. 14.
- Kennedy, Charles F., assignor to The Atlantic Refining Company, Philadelphia, Pa. Treating oil. No. 1,439,171; Dec. 19.
- Kennedy, David. (See Stanmore, J., and Kennedy.)
- Kennedy, Davis S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical distributing machine. No. 1,405,518; Feb. 7.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical composing machine. No. 1,406,563; Feb. 14.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical composing and casting machine. No. 1,406,564; Feb. 14.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical casting machine. No. 1,415,454; May 9.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,424,917; Aug. 8.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical casting machine. No. 1,431,741; Oct. 10.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,431,742; Oct. 10.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical distributing machine. No. 1,431,743; Oct. 10.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Justifying spacer or space band. No. 1,439,824; Dec. 26.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical distributing machine. No. 1,440,086; Dec. 26.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical casting machine. No. 1,440,087; Dec. 26.
- Kennedy, Donald S., New York, N. Y. Resilient wheel. No. 1,430,657; Oct. 3.
- Kennedy, Eugene H., Mansfield, Ohio. Heating apparatus. No. 1,420,264; June 20.
- Kennedy, Franklin K., Jr., U. S. Army. Target frame. No. 1,413,032; Apr. 18.
- Kennedy, G. M., et al. (See Kennedy, Homer R., as signor.)
- Kennedy, George, assignor of forty-nine one-hundredths to S. S. Stewart, Oakdale, Calif. Compound ball bearing. No. 1,433,014; Oct. 24.
- Kennedy, George C., Waterloo, Iowa. Sectional inclosure. No. 1,406,192; Feb. 14.
- Kennedy, George C., Waterloo, Iowa. Compartmental device. No. 1,412,943; Apr. 18.
- Kennedy, George C., Waterloo, Iowa. Sliding knockdown freight carrier. No. 1,415,244; May 9.
- Kennedy, Gussie M. (See Kennedy, Homer R., assignor.)
- Kennedy, Homer R., assignor, by mesne assignments, to J. J. Mathe and S. O. Wood, Los Angeles, Calif. Metal-working tool. (Reissue.) No. 15,268; Jan. 17.
- Kennedy, Homer R., assignor to G. M. Kennedy, Los Angeles, Calif. Fender rim and wired-edge tool and the like. No. 1,427,299; Aug. 29.
- Kennedy, Homer R., assignor to G. M. Kennedy, Los Angeles, Calif. Fender rim and wired-edge tool and the like. No. 1,427,300; Aug. 29.
- Kennedy, Homer R., assignor of one-half to G. M. Kennedy and one-half to J. J. Mathe, Los Angeles, Calif. Holder for grease guns. No. 1,418,263; May 30.
- Kennedy, Horace G., assignor of one-half to J. A. Hingley, Denver, Colo. Grinding attachment. No. 1,428,289; Sept. 5.
- Kennedy, Howard L., Van Wert, Ohio. Metal tool kit for mechanics. No. 1,405,422; Feb. 7.

- Kennedy, James E., Washington, D. C. Gas stove. No. 1,415,576; May 9.
- Kennedy, James E., Washington, D. C. Gas stove. No. 1,439,108; Dec. 19.
- Kennedy, James J., New York, N. Y. Picture puzzle device. No. 1,415,245; May 9.
- Kennedy, James W., assignor of one-fourth to G. S. Haggart and one-fourth to H. C. Conrad, Canton, Ohio. Signaling apparatus. No. 1,421,251; June 27.
- Kennedy, James W., assignor of one-fourth to G. S. Haggart and one-fourth to H. C. Conrad, Canton, Ohio. Railway signaling apparatus. No. 1,421,252; June 27.
- Kennedy, John E., Glens Falls, N. Y. Audible speedometer. No. 1,420,633; June 27.
- Kennedy, John J., New York, N. Y. Building structures. No. 1,409,729; Mar. 14.
- Kennedy, John L. (See Hopkins, Morton K., assignor.)
- Kennedy, Joseph. (See Ogden, J. E., and Kennedy.)
- Kennedy, Joseph, Providence, R. I. Automatic bread-molding machine. No. 1,420,486; June 20.
- Kennedy, Joseph, Richmond Hill, assignor to J. E. Ogden, Mountainville, N. Y. Expansion shield. No. 1,410,258; Mar. 21.
- Kennedy, Joseph, New York, assignor to J. E. Ogden, Mountainville, N. Y. Bolt anchor. No. 1,410,259; Mar. 21.
- Kennedy, Joseph, New York, assignor to J. E. Ogden, Mountainville, N. Y. Bolt anchor. No. 1,410,260; Mar. 21.
- Kennedy, Joseph, Richmond Hill, assignor to The Orsbee Co. Inc., New York, N. Y. Bolt anchor. No. 1,435,927; Nov. 21.
- Kennedy, Joseph E. (See Carman, Charles L., assignor.)
- Kennedy, Julian, Pittsburgh, Pa. Rolling mill. No. 1,431,668; Oct. 10.
- Kennedy, Julian, Pittsburgh, Pa. Blast furnace. No. 1,435,857; Nov. 14.
- Kennedy, Lawrence H., Dayton, Ohio. Pendulum ball for automatic scales. No. 1,417,833; May 30.
- Kennedy, Leo A., Derby, Kans. Fuel lock for motor cars. No. 1,403,086; Jan. 10.
- Kennedy, Richard O., A. H. Gillespie, and R. C. Marshall, assignors to Cluett, Peabody & Co., Inc., Troy, N. Y. Fold collar. No. 1,424,918; Aug. 8.
- Kennedy, Robert C., Walsen, Colo. Mason's scotch. No. 1,430,908; Oct. 3.
- Kennedy, Thomas C., Chicago, Ill. Water cooler. No. 1,435,858; Nov. 14.
- Kennedy, Thomas E. (See Bradley, C., and Kennedy.)
- Kennedy, Walter J., Cleveland, Ohio. Valve for gas stoves. No. 1,425,975; Aug. 15.
- Kennedy, William A., and A. J. Loepsinger, Providence, R. I., assignors to General Fire Extinguisher Company, New York, N. Y. Sprinkler head. No. 1,427,322; Sept. 5.
- Kennedy, William D., Fairfield, Ohio. Lock. No. 1,407,755; Feb. 28.
- Kennedy, William H. (See Fenaes, A. R., and Kennedy.)
- Kennedy, William H., assignor of one-half to L. B. Miller, Chicago, Ill. Riveting machine. No. 1,433,953; Oct. 31.
- Kennel, Arthur G. (See Greenstreet, M. L., and Roedel, assignors.)
- Kennell, William F. (See Bauer, J. H., and Kennell.)
- Kenner, Duncan, New Orleans, La. Mops. (Reissue.) No. 15,274; Jan. 24.
- Kenner, Duncan, assignor to Dry Hand Mop Company, New Orleans, La. Mop. No. 1,426,084; Aug. 15.
- Kenner, Duncan, assignor to Dry Hand Mop Company, New Orleans, La. Mop head. No. 1,427,478; Aug. 29.
- Kenner, John, Herrin, Ill. Automatic switch. No. 1,430,510; Sept. 26.
- Kenney, Edward H. and E., Philadelphia, Pa. Flying penant. No. 1,438,920; Dec. 12.
- Kenney, Elizabeth. (See Kenney, Edward H. and E.)
- Kenney, Leonard E., Chicago, Ill. Turbine engine. No. 1,433,950; Oct. 31.
- Kenney, Mary A. (See Gibbons, Richard, assignor.)
- Kenney, William J. (See Nordell, Carl H., assignor.)
- Kennihan, Howard P., Bakerstown, Pa. Tire-chain connector. No. 1,436,505; Nov. 21.
- Kennington, William O., London, England, assignor to The Remy Electric Company. Ignition system. (Reissue.) No. 15,408; July 11.
- Kenny, Albert. (See Ostberg, A. J., and Kenny.)
- Kenny, Edward. (See Klein, P. J., and Kenny.)
- Kenny, James N., Ottawa, Ontario, Canada. Conveyor belt. No. 1,422,208; July 11.
- Kenny, John B., Geneva, N. Y. Fruit-basket cover. No. 1,408,949; Mar. 7.
- Kenny, John B., Geneva, N. Y. Fruit basket. No. 1,425,262; Aug. 8.
- Kenny, Joseph C., Williamsville, N. Y. Marking attachment for rakes. No. 1,414,087; Apr. 25.
- Kenny, Philip J., Chicago, Ill. Traction attachment for wheels. No. 1,426,199; Aug. 15.
- Kenny, William J., Cicero, Ill., assignor to American Can Company, New York, N. Y. Attaching bails to container bodies. No. 1,403,169; Jan. 10.
- Kenrick, Charles H., assignor to The American Wood Rim Company, Onaway, Mich. All-wood steering wheel. No. 1,434,616; Nov. 7.
- Kent, Arthur A., Ardmore, Pa. Vehicle seat. No. 1,417,744; May 30.
- Kent, Arthur A., Ardmore, assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa. Ignition-control apparatus. No. 1,407,284; Feb. 21.
- Kent, Arthur A., Ardmore, assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa. Ignition-control apparatus. No. 1,407,466; Feb. 21.
- Kent, Arthur T. (See Duckham, A. M., and Kent.)
- Kent, Bert M. (See Erter, David, assignor.)
- Kent, Bert M., assignor to The Standard Parts Company, Cleveland, Ohio. Roll-gauging machine. No. 1,406,193; Feb. 14.
- Kent, Bert M., assignor to The Standard Parts Company, Cleveland, Ohio. Rim. No. 1,408,950; Mar. 7.
- Kent, Bert M., assignor to The Standard Parts Company, Cleveland, Ohio. Rim. No. 1,430,658; Oct. 3.
- Kent, Budd, Woodburn, Oreg. Clod crusher. No. 1,425,976; Aug. 15.
- Kent, Clarence H. (See Mills, W. and Percy, assignors.)
- Kent, Earl and G., Tacoma, Wash. Dispensing device. No. 1,422,768; July 11.
- Kent, Glenn. (See Kent, Earl and G.)
- Kent, Herbert V., London, England. Construction of hollow walls for buildings. No. 1,427,534; Aug. 29.
- Kent, Jerry M. (See McGee, C. E., and Kent.)
- Kent, Lee V., Waynesburg, Pa. Trash-feed attachment for furnaces. No. 1,435,070; Nov. 7.
- Kent, Robert D. (See Cameron, Hugh, assignor.)
- Kent, Robert J., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Hook. No. 1,420,487; June 20.
- Kent, Robert W., Newton Center, assignor to Cooley & Marvin Company, Boston, Mass. Dry kiln. No. 1,403,417; Jan. 10.
- Kent, William J., Brooklyn, N. Y., assignor to The Mechanical Rubber Company. Making mats. No. 1,413,663; Apr. 25.
- Kent, William J., Brooklyn, N. Y., assignor to The Mechanical Rubber Company. Machine for cutting slab packing. No. 1,419,144; June 13.
- Kent, William J., Brooklyn, N. Y., assignor to Peerless Rubber Manufacturing Company. Making rubber tiling. No. 1,422,579; July 11.
- Kentch, George F., Clatskanie, Oreg. Stump-burning apparatus. No. 1,409,051; Mar. 7.
- Kenter, Carl, Mahlsdorf, near Berlin, Germany, assignor to I. Schwabe, Atlantic City, N. J. Vise. No. 1,402,619; Jan. 3.
- Kenton, Clyde L., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine chain. No. 1,435,309; Nov. 14.
- Kenton, Levi C., Chattanooga, Tenn. Shoe. No. 1,407,661; Feb. 21.
- Kentucky Switch & Signal Co. Inc. (See Scoggan, Richard R., assignor.)
- Ken-Wel Sporting Goods Co. (See Kennedy, Bert, assignor.)
- Kenyon, Harry, Forest Hill, Md. Poultry feeder and disinfecter. No. 1,433,081; Oct. 24.
- Kenyon, James. (See Couche, C. W., and Kenyon.)
- Kenyon, Otis A., New York, N. Y. Means of producing constant-current regulation of generators. No. 1,404,442; Jan. 24.
- Kenworthy, James A., Los Angeles, Calif. Gas generator and burner. No. 1,417,745; May 30.
- Keopple, William E., Dayton, Ohio. Expansion-plug gauge. No. 1,408,808; Mar. 7.
- Keough, Edward W., Middleboro, Mass. Shuttle-box-operating mechanism. No. 1,426,392; Aug. 22.
- Kephart, J. W., et al. (See Hurl, Charles W., assignor.)
- Kepler, Irwin F., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Traction device. No. 1,410,760; Mar. 28.
- Kepler, Irwin F., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Transmission belt. No. 1,425,021; Aug. 8.
- Keplinger, George B., assignor to Cruver Mfg. Co., Chicago, Ill. Permutation lock for receptacles. No. 1,403,328; Jan. 10.
- Keplinger, George B., assignor to Cruver Manufacturing Company, Chicago, Ill. Permutation lock for coin banks. No. 1,431,162; Oct. 10.
- Keppler, Arthur C., South Bend, Ind. Signaling device. No. 1,431,669; Oct. 10.
- Keppler, Fred J., Buffalo, N. Y. Convertible building. No. 1,437,148; Nov. 28.
- Keppler, Frederick L., New York, N. Y. Wall structure. No. 1,425,102; Aug. 8.
- Kerben, Rudolph E., St. Cloud, Minn. Hose-coupling tool. No. 1,435,071; Nov. 7.
- Kercher, John, Chicago, Ill. Vehicle wheel. No. 1,428,241; Sept. 5.
- Kercher, John, Chicago, Ill. Massage device. No. 1,429,594; Sept. 19.
- Kercher, Leroy, near Roann, A. T. Ronk, Warsaw, Ind., and G. T. Ronk, assignors to Speeder Machinery Corporation, Leon, Iowa. Excavating machine. No. 1,403,418; Jan. 10.
- Kéri, Stefan, Manville, N. J. Vehicle signal device. No. 1,432,342; Oct. 17.
- Kéri, Stefan, Manville, N. J. Safety lock. No. 1,434,709; Nov. 7.
- Kerkow, Robert H., West Point, Nebr. Chain connector. No. 1,435,479; Nov. 14.

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- Kerley, Micheal J., Sioux City, Iowa. Safe and vault. No. 1,427,688; Aug. 29.
- Kerlogue, Harold G., London, England. Bag or carrier for golf clubs and the like. No. 1,438,311; Dec. 12.
- Kerlow Steel Flooring Co. (See Bunker, Herbert H., assignor.)
- Kerlow Steel Flooring Co. (See Lown, Walter H., assignor.)
- Kern, Franklin S., Libertyville, Ill. Headlight. No. 1,417,607; May 30.
- Kern, Frederick E., St. Louis, Mo. Shaping and ironing tool. No. 1,417,668; May 30.
- Kern, Frederick E., St. Louis, Mo. Shaping and ironing tool. No. 1,418,381; June 6.
- Kern, Ora A. (See Ellis, J. T., and Kern.)
- Kern, Percy S., Jr., Verden, Okla. Automobile curtain case. No. 1,432,562; Oct. 17.
- Kern, Rudolf, Aachen, Germany. Wire brush. No. 1,408,951; Mar. 7.
- Kernes, James, and I. Karish, assignors to Kernes Manufacturing Co., Chicago, Ill. Wood-turning machine. No. 1,439,900; Dec. 26.
- Kernes Manufacturing Co. (See Kernes, J., and Karish, assignors.)
- Kerney, James, et al. (See Boone, Robert J., assignor.)
- Kerngood, Allen H., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Suspender buckle. No. 1,425,778; Aug. 15.
- Kerngood, Allen H., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Sliding-tongue buckle. No. 1,437,250; Nov. 28.
- Kerns, Clinton B., Copperhill, Tenn. Automatic stop for photographs. No. 1,411,732; Apr. 4.
- Kerns, John W., Lincoln, Nebr. Piston and piston ring. No. 1,416,472; May 16.
- Kerosene System Sales Company. (See Evans, John H., assignor.)
- Kerr, Bevie. (See Williams, L. S., and Kerr.)
- Kerr, Franklin H., Lucas, Ohio. Land-cure mechanism. No. 1,428,242; Sept. 5.
- Kerr, Harry E., and E. C. Ahlheim, assignors to The Ahlheim Company, Cleveland, Ohio. Aluminum rolling pin. No. 1,405,920; Feb. 7.
- Kerr, James H. S., Toronto, Ontario, Canada. Rubber mat. No. 1,426,296; Aug. 15.
- Kerr, James M., Crawfordsville, Ind. Shock absorber. No. 1,417,175; May 23.
- Kerr, James M., Crawfordsville, Ind. Shock absorber. No. 1,417,176; May 23.
- Kerr, James M., Crawfordsville, Ind. Shock absorber. No. 1,417,177; May 23.
- Kerr, James M., Crawfordsville, Ind. Shock absorber. No. 1,417,178; May 23.
- Kerr, James M., Crawfordsville, Ind. Shock absorber. No. 1,417,179; May 23.
- Kerr, James M., Crawfordsville, Ind. Shock absorber. No. 1,419,629; June 13.
- Kerr, James M., Crawfordsville, Ind. Shock absorber. No. 1,419,630; June 13.
- Kerr, James M., Crawfordsville, Ind. Shock absorber. No. 1,419,631; June 13.
- Kerr, John, Toronto, Ontario, Canada. Air compressor. No. 1,427,823; Sept. 5.
- Kerr, John L. (See Barton, William L., assignor.)
- Kerr, Maurice L., assignor to Indiana Truck Corporation. Marion, Ind. Truck frame. No. 1,435,480; Nov. 14.
- Kerr, Michael A., Burkburnett, assignor of one-half to A. Chanowsky, Fort Worth, Tex. Pump. No. 1,436,891; Nov. 28.
- Kerschbaum, Carl, Hinwil, assignor to Firm Stössel & Cie., Wädenswil, Switzerland. Device for mounting and removing tires. No. 1,428,440; Sept. 5.
- Kersey, Enos C., Newport Beach, Calif. Wave motor. No. 1,408,094; Feb. 28.
- Kershaw, Dr. Bert H., et al. (See Davis, Harry B., assignor.)
- Kershaw, Francis A., Kent, Ohio. Lapping machine. No. 1,434,824; Nov. 7.
- Kershaw, Henry, Indianapolis, Ind. Vacuum liquid supply apparatus. No. 1,431,816; Oct. 10.
- Kershaw, Joe, Menston, England. Apparatus for treating wool, slubbing, yarns, and other fibrous material. No. 1,405,038; Jan. 31.
- Kershaw, Joseph, Joplin, Mo. Automobile signal. No. 1,401,986; Jan. 3.
- Kershaw, Lou B., Denver, Colo. Internal-combustion engine. No. 1,430,817; Oct. 3.
- Kershaw, William E., Philadelphia, Pa. Storage-battery counter cell. No. 1,437,470; Dec. 5.
- Kersten, Karl E., Chicago, Ill. Beater belt for hog scrapers. (Reissue.) No. 15,313; Mar. 28.
- Kersting, Albert F., Spring Hill, Ala., assignor of one-half to L. C. Hamlink, Cleveland, Ohio. Method of and apparatus for manufacturing gas. No. 1,420,041; June 20.
- Kerwin, Arthur C., New York, N. Y. Lock nut. No. 1,438,312; Dec. 12.
- Kerwin, Thomas J., Chicago, Ill. Instrument-board lamp. No. 1,434,956; Nov. 7.
- Kerwin, Thomas J., Chicago, Ill., assignor to Edmunds & Jones Corporation. Instrument-board lamp. No. 1,429,884; Sept. 19.
- Kesel, Valentine, Detroit, Mich. Vegetable-slicing machine. No. 1,406,194; Feb. 14.
- Kesling, Silas, Peru, Ind. Insect trap. No. 1,437,251; Nov. 28.
- Kessel, Joseph W., Brooklyn, N. Y. Clip. No. 1,429,037; Sept. 12.
- Kesses, Charles, New York, N. Y. Photoprinting machine. No. 1,417,832; May 30.
- Kessler, Charles L., San Diego, Calif. Printing-press brake. No. 1,437,734; Dec. 5.
- Kessler, Harry C., Warrington, assignor to Breuker & Kessler Company, Philadelphia, Pa. Paper box. No. 1,421,494; July 4.
- Kessler, Harry C., Warrington, assignor to Breuker & Kessler Company, Philadelphia, Pa. Road map. No. 1,424,919; Aug. 8.
- Kessler, Johannes M. (See Underwood, K. C., Crane, and Kessler.)
- Kessler, Johannes M., West Orange, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulose-ester plastic. No. 1,408,095; Feb. 28.
- Kessler, Johannes M., West Orange, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coumarone coating composition. No. 1,411,035; Mar. 28.
- Kessler, Max, Mannheim, Germany. Filter. No. 1,410,017; Mar. 21.
- Kessler, Samuel, New York, N. Y. Water-cooling attachment for ice boxes. No. 1,411,969; Apr. 4.
- Kesslering, Nicholas. (See Knittel, C., and Kesslering.)
- Kester, Malcolm R., Chicago, Ill. Cam-holder frame. No. 1,408,809; Mar. 7.
- Kester, Malcolm R., Chicago, Ill. Cam-holder frame. No. 1,416,959; May 23.
- Kesterson, Mat W., Goree, and J. H. Latimer, Weinert, Tex. Header. No. 1,424,648; Aug. 1.
- Kestler, Herman J., New York, N. Y. Collapsible mold for concrete structures. No. 1,421,956; July 4.
- Kestner Evaporator Company. (See Mellor, Ralph, assignor.)
- Kestner, Paul, Paris, France. Edible product obtained from the sugar juices of beets and obtaining it. No. 1,419,057; June 6.
- Ketchum, Adolph A., Chicago, Ill. Lamp. No. 1,423,433; July 18.
- Ketola, Wester, Jersey City, N. J. Paper clip. No. 1,433,461; Oct. 24.
- Kettering, Charles F., assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Fuel-supply system. No. 1,404,152; Jan. 17.
- Kettering, Charles F., assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Fuel-supply device. No. 1,410,682; Mar. 28.
- Kettering, Charles F., assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Engine. No. 1,430,524; Sept. 26.
- Kettering, Charles F., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Engine-control system. No. 1,434,013; Oct. 31.
- Kettering, Charles F., assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Ignition system. No. 1,435,966; Nov. 21.
- Kettering, Charles F., and W. A. Chryst, Dayton, Ohio, assignors to The Dayton Engineering Laboratories Company. Brush mounting. No. 1,405,519; Feb. 7.
- Kettering, Ward E., San Francisco, Calif. Vehicle wheel. No. 1,434,546; Nov. 7.
- Kettler, Martin E., Pittsburgh, Pa. Cushioned wheel. No. 1,413,166; Apr. 18.
- Ketting, Chauncey B., Montezuma, Ohio. Cultivator attachment. No. 1,437,110; Nov. 28.
- Kettron, Charles W., assignor to Illinois Electric Porcelain Company, Macomb, Ill. Split insulator. No. 1,429,079; Sept. 12.
- Kevlin, Mathew F., Springfield, Vt. Drier for textile stock etc. No. 1,428,290; Sept. 5.
- Kewanee Implement Company. (See Glidden, Raymond B., assignor.)
- Kewanee Implement Company. (See Lehrack, Frederick W., assignor.)
- Key-Rolt Appliance Company. (See Weston, A. H., and Zilliox, assignors.)
- Key, Frederick E., St. Louis, Mo. Boiler. No. 1,409,345; Mar. 14.
- Key, George F., Detroit, Mich. Carburetor. No. 1,410,321; Mar. 21.
- Key, James F. (See Richardson, R., and Key.)
- Key, Walter, near Whittier, Calif. Rake attachment. No. 1,439,964; Dec. 26.
- Key, William H. (See Manny, F. L., and Key.)
- Keyes, Robert E. (See Lissauer, A. W., and Keyes.)
- Keyes, Thomas A., et al. (See Hull, Chester A., assignor.)
- Keyograp Corporation. (See Altschuler, Joseph, assignor.)
- Keys, Walter C., assignor to The Standard Parts Company, Cleveland, Ohio. Rim. No. 1,407,467; Feb. 21.
- Keys, Walter C., assignor to The Standard Parts Company, Cleveland, Ohio. Roller-bearing cage. No. 1,418,652; June 6.
- Keyser, Earl W., Wheeling, W. Va. Cuticle stick. No. 1,413,033; Apr. 18.
- Keystone Die and Manufacturing Company. (See Szepe, Joseph J., assignor.)
- Keystone Driller Company. (See Downie, Robert R., assignor.)
- Keystone Driller Company. (See Holmes, Robert E. I., and C. W., assignors.)

- Keystone Iron & Steel Works. (See Gebhart, John C., assignor.)
- Keyworth, George A., et al., trustees. (See Lloyd, Marshall B., assignor.)
- Keyworth, William C., Paterson, N. J. Swift. No. 1,408,745; Mar. 7.
- Keyzer, John, West Allis, Wis. Floor set. No. 1,431,463; Oct. 10.
- Keyzer, Joseph N. M., Lynchburg, Va. Lawn mower. No. 1,417,252; May 23.
- Khalil, Seyed, Paris, France, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,403,329; Jan. 10.
- Klander, Lawrence A., New York, N. Y. Dental surgery. No. 1,408,006; Feb. 28.
- Kibbe Brothers Company. (See Lyons, John F., assignor.)
- Kibbe, Clara A., Teriton, Okla. Churn stand. No. 1,402,620; Jan. 3.
- Kibebe, Otto B., Los Angeles, Calif. Removable deep-well pump. No. 1,421,253; June 27.
- Kibler, John, Jr., assignor of one-half to H. E. De Witt, Walla Walla, Wash. Folding camp bed. No. 1,417,253; May 23.
- Kick, John A., Chicago, Ill. Uniting waxed paper. No. 1,408,746; Mar. 7.
- Kidd, Averell. (See Marwood, C., and Kidd.)
- Kidder, Arthur B., and H. Miller; said Miller assignor, by mesne assignments, to H. B. Stolzenbach, Canton, Ohio. Phonograph-record cleaner. No. 1,435,645; Nov. 14.
- Kidder, Fred M., Warren, Pa. Pinch bar. No. 1,412,007; Apr. 4.
- Kidder, Wellington P., Boston, Mass., assignor to H. Bates, New York, N. Y. Typewriter. No. 1,412,351; Apr. 11.
- Kidder, William N., Cranston, R. I. Dental tray. No. 1,402,298; Jan. 3.
- Kiddie, Frederick W., Leamington, assignor to Winget Limited, London, England. Machine for mixing concrete ingredients or other substances. No. 1,419,737; June 13.
- Kidney, Josiah R., assignor to The N. N. Hill Brass Co., East Hampton, Conn. Sounding toy. No. 1,419,632; June 13.
- Kieckhefer, Alfred J., assignor to National Enameling & Stamping Co., Inc., Milwaukee, Wis. Oil-stove burner-adjusting means. No. 1,433,516; Oct. 24.
- Kieckhefer, Alfred J., assignor to National Enameling & Stamping Co., Inc., Milwaukee, Wis. Chimney-lift head. No. 1,434,825; Nov. 7.
- Kieckhefer, William, Milwaukee, Wis. Bookmark. No. 1,420,265; June 20.
- Kiefer, William F., Philadelphia, and J. H. Warren, Jonkintown, Pa. Convertible builder's level and transit. No. 1,429,437; Sept. 19.
- Kiekutis, Feliksas, Lawrence, Mass. Potato grater. No. 1,433,554; Oct. 31.
- Kiel, John R., Youngstown, Ohio. Door fastener. No. 1,431,584; Oct. 10.
- Kielberg, Henry. (See Holloway, W. W., and Kielberg.)
- Kielberg, Henry, Martins Ferry, Ohio, assignor to Whitaker-Glessner Company, Wheeling, W. Va. Burner for gas heaters. No. 1,438,041; Dec. 5.
- Kielland, Alfred, Trondhjem, Norway. Winding machine for pipe conduits, especially wooden-stave pipes. No. 1,402,515; Jan. 3.
- Kiely, John R. (See Johnson, John G., assignor.)
- Kien, Edward T., assignor of one-fourth to W. M. Hardwick and one-fourth to E. S. Newton, Chattanooga, Tenn. Pump. No. 1,409,868; Mar. 14.
- Kien, Edward T., Elmhurst, Ill., assignor of one-half to E. S. Newton and W. M. Hardwick, Chattanooga, Tenn. Pump. No. 1,439,628; Dec. 19.
- Kienzl, Raymond, Cleveland, Ohio. Cutting tool. No. 1,422,988; July 18.
- Kier, George L. (See Warren, W. C., and Kier.)
- Kier, William E. (See Nayer, Carl F., assignor.)
- Kieran, John J., assignor to E. Bossi, New York, N. Y. Vacuum feed. No. 1,404,529; Jan. 24.
- Kierstead, Friend H., Pittsfield, Mass., assignor to General Electric Company, Reactor and the like. No. 1,412,817; Apr. 11.
- Kierum, Charles J., Schertz, Tex. Hydrocarbon engine. No. 1,418,307; June 6.
- Kiesel, Walter C., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone hand set. No. 1,425,977; Aug. 15.
- Kiesel, William F., Jr., Altoona, Pa. Locomotive. No. 1,416,717; May 23.
- Kiesel, William F., Jr., Altoona, Pa. Locomotive. No. 1,416,718; May 23.
- Kiesel, William F., Jr., Altoona, Pa. Locomotive. No. 1,428,441; Sept. 5.
- Kiesel, William F., Jr., Altoona, Pa. Steam boiler. No. 1,433,378; Oct. 24.
- Kiesel, William F., Jr., Altoona, Pa. Journal-box hinge pin. No. 1,433,379; Oct. 24.
- Kiesel, William F., Jr., Altoona, Pa. Side-frame and journal-box construction. No. 1,433,380; Oct. 24.
- Kiesel, William F., Jr., Altoona, Pa. Means for supplying live blower steam and smoke-lifter steam in locomotives. No. 1,437,662; Dec. 5.
- Kiesling, Le Roy H., Brooklyn, N. Y. Hoisting apparatus. No. 1,435,859; Nov. 14.
- Kievan, George M., Kansas City, Mo. Current motor. No. 1,406,031; Feb. 7.
- Kiewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole-sewing machine. No. 1,402,073; Jan. 3.
- Kiewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing machine. No. 1,406,742; Feb. 14.
- Kiewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole-sewing machine. No. 1,437,847; Dec. 5.
- Kigas, John, assignor to A. Wasieff, Chicago, Ill. Floor and surfacing machine. No. 1,435,967; Nov. 21.
- Kight, William K., Dexter, Mo., assignor of one-sixth to W. H. Jinks and one-sixth to L. B. Jessup, Brookland, Ark. Protecting device for automobile tires. No. 1,406,655; Feb. 14.
- Kik, Charles L., Los Angeles, Calif. Iceless refrigerator. No. 1,422,364; July 11.
- Kik, Charles L., Los Angeles, Calif. Iceless refrigerator. No. 1,422,365; July 11.
- Kilborn, Karl B. (See Dunlap, J. H., and Kilborn.)
- Kilbourne & Jacobs Manufacturing Company, The. (See Cotton, J. H., and Burner, assignors.)
- Kiley, Maurice. (See Kosuboski, Benjamin, assignor.)
- Kilfoyle, Fred M., Storrs, Utah. Letter file. No. 1,427,397; Aug. 29.
- Kilgore, A. Dewey, Akron, Ohio. Shaffer-strip-guide device. No. 1,418,653; June 6.
- Kilgore, A. Dewey, Akron, Ohio. Tire-ply turn-up and prodder device. No. 1,420,930; June 27.
- Kilgore, Frederick O., Boston, assignor of one-tenth to J. H. Churchill, Quincy, and nine-tenths to M. H. Kilgore, Watertown, Mass. Attachment for internal-combustion motors. No. 1,403,693; Jan. 17.
- Kilgore, Myrtle H., et al. (See Kilgore, Frederick O., assignor.)
- Kilgore, Thad S., and L. R. Bone, Boulder, Colo. Check-valve structure for water pumps and the like. No. 1,430,818; Oct. 3.
- Killefer Manufacturing Company. (See Watters, Daniel M., assignor.)
- Killen, Edward B., London, England. Wheel and wheel fitment. No. 1,435,529; Nov. 14.
- Killen, Edward B., London, England. Wheel and wheel fitment. No. 1,435,530; Nov. 14.
- Killen, Edward B., London, England. Rubber tire and its attachment to wheels. No. 1,435,531; Nov. 14.
- Killerbrue, Engley G., Chicago, Ill. Attachment for wheels. No. 1,438,117; Dec. 5.
- Killian, William F. (See Joachim, C. A., and Killian.)
- Killick, Reginald. (See Stewart, H., and Killick.)
- Killin, George W., West Huntington, W. Va. Shears. No. 1,425,779; Aug. 15.
- Killinger, George W., Joliet, Ill. Burial vault. No. 1,420,709; June 27.
- Kilon, John F., Attleboro, Mass., assignor to Whiting Chain Company, Belt clasp. No. 1,414,816; May 2.
- Killman, Thomas A., Nashville, Tenn. Method of and apparatus for projecting motion pictures in colors. No. 1,413,591; Apr. 25.
- Kimball, A., Company. (See Anthony, Marcus O., assignor.)
- Kimball, A., Company. (See Wallin, Gustaf A., assignor.)
- Kimball, W. W., Company. (See Ericson, Oscar A., assignor.)
- Kimball, E. B., et al., trustees. (See Heslewood, W. R., and Mocine, assignors.)
- Kimball, Edwin B., trustee. (See Blanchard, George N., assignor.)
- Kimball, Erastus S., New Haven, Conn. Hoist. No. 1,411,733; Apr. 4.
- Kimball, James L., assignor to Ruggles-Klingemann Co., Salem, Mass. Lubricating system. No. 1,405,039; Jan. 31.
- Kimball, John A., Taylorville, Ill. Nut lock. No. 1,405,225; Jan. 31.
- Kimball, John A., Taylorville, Ill. Scraping tool. No. 1,418,189; May 30.
- Kimball, Matthew D., assignor of one-half to D. P. Feder, Omaha, Neb. Nut lock. No. 1,417,334; May 23.
- Kimball, Mayo D. (See Thomas, F. W., and Kimball.)
- Kimball, Robert E., assignor to The Tickometer Company, Cleveland, Ohio. Register-operating mechanism. No. 1,423,333; July 18.
- Kimball, Wallace D., New York, N. Y., assignor, by mesne assignments, to Nashua Gummed & Coated Paper Company, Nashua, N. H. Making stay strips for boxes. No. 1,434,213; Oct. 31.
- Kimball, Wallace D., New York, N. Y., and A. E. Rideout, Chicago, Ill., assignors, by mesne assignments, to Nashua Gummed & Coated Paper Company, Nashua, N. H. Tape-applying machine. No. 1,434,212; Oct. 31.
- Kimball, Wallace D., New York, N. Y., and A. E. Rideout, Chicago, Ill., assignors, by mesne assignments, to Nashua Gummed & Coated Paper Company, Nashua, N. H. Strip serving and cutting machine. No. 1,436,105; Nov. 21.
- Kimball, Wallace D., New York, N. Y., and C. G. Mortimer, Harrison, N. J., assignors, by mesne assignments, to Nashua Gummed & Coated Paper Company, Nashua, N. H. Strap fastener. No. 1,436,448; Nov. 21.
- Kimbel, Wilhelm, Berlin, Germany. Wooden cigarette case. No. 1,429,743; Sept. 19.
- Kimbell, Arthur W. (See Vodicka, J., and Kimbell.)

Alphabetical list of patentees—Continued.

- Kimber, Henry. (See Hillman, E. B., Kimber, and Dadisman.)
- Kimble, Austin, Wausau, Wis. Making Dynamo-electric machines. No. 1,408,890; Mar. 7.
- Kimble, Austin, assignor to Marathon Electric Mfg. Co., Wausau, Wis. Automatic safety brake. No. 1,433,553; Oct. 31.
- Kimble, Austin, assignor to Marathon Electric Mfg. Company, Wausau, Wis. Electrodeposit winding. No. 1,433,827; Oct. 31.
- Kimble, Austin, assignor to Marathon Electric Mfg. Co., Wausau, Wis. Ventilated pulley. No. 1,433,828; Oct. 31.
- Kimble, Austin, assignor to Marathon Electric Mfg. Co., Wausau, Wis. Water-cooled pulley. No. 1,437,595; Dec. 5.
- Kimmel Electric Company. (See Nies, John D., assignor.)
- Kimble Glass Company. (See Halversen, Hans N., assignor.)
- Kimman, Henry J., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Drill. No. 1,404,530; Jan. 24.
- Kimman, Henry J., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, Chicago, Ill. Connecting rod for drills, etc. No. 1,423,614; July 25.
- Kimmel, George C., and H. Billing, Cincinnati, Ohio. Safety zone and marker for the same. No. 1,403,033; Jan. 10.
- Kimmel, Harry B., Highland Park, Mich. Saw. No. 1,412,618; Apr. 11.
- Kimmell, Walter O., Carbon, Tex. Fishing tool. No. 1,439,244; Dec. 19.
- Kimmerle, Daniel S. (See Kimmerle, Larned T. and D. S.)
- Kimmerle, Larned T. and D. S., San Francisco, Calif. Lifting jack. No. 1,440,016; Dec. 26.
- Kimmet, Henry, and G. H. Blaue, Kansas City, Mo.; said Kimmet assignor to said Blaue. No. 1,411,664; Apr. 4.
- Kincaid, Ernest E., et al. (See Benedict, Earnest H., assignor.)
- Kincaid, Robert L., Syracuse, N. Y. Clothes wringer. No. 1,416,213; May 16.
- Kincaid, Wilbert F., assignor of one-half to A. H. Mason, Gauley Bridge, W. Va. Automobile body. No. 1,421,788; July 4.
- Kincaid, Wilbert F., assignor of one-half to A. H. Mason, Gauley Bridge, W. Va. Steering gear for automobiles. No. 1,438,042; Dec. 5.
- Kincannon, John W., Dyerville, Calif. Violin. No. 1,413,916; Apr. 25.
- Kincheloe, Herbert E., Maplewood, Mo. Chair desk. No. 1,426,297; Aug. 15.
- Kind, Frederick H., assignor to W. Gaterman Mfg. Co., Manitowoc, Wis. Automatic thread-tapping machine. No. 1,403,170; Jan. 10.
- Kindell, Charles E., administrator. (See Leech, Charles M.)
- Kinder, Cloyd L., Fort Lupton, and B. V. Egbert, Henderson, Colo. Oil tube for motor-vehicle engines. No. 1,440,156; Dec. 26.
- Kindervater, Julius. (See Lassiter, C. K., and Kindervater.)
- Kindervater, Julius, New York, N. Y. Driving-box wedge. No. 1,421,010; June 27.
- Kindervater, Julius, New York, N. Y. Crosshead. No. 1,428,695; Sept. 12.
- Kindl, Joseph, St. Louis, Mo. Hand shaft-turning device. No. 1,415,039; May 9.
- Kindland, Erick N., Jamestown, N. Y. Jar top. No. 1,436,346; Nov. 21.
- Kindsvater, John H., Wichita, Kans. Metal shoe sole and heel protector. No. 1,427,742; Aug. 29.
- Kinehan, John J., Los Angeles, Calif. Air-tube valve. No. 1,409,453; Mar. 14.
- King, Albert E., Los Angeles, Calif. Blowpipe. No. 1,420,107; June 20.
- King, Alfred E., St. Kilda, near Melbourne, Victoria, Australia. Copy holder for use with typewriters. No. 1,405,040; Jan. 31.
- King, Alfred E., Kilda, near Melbourne, Victoria, Australia. Typewriter word counter. No. 1,432,759; Oct. 24.
- King, Alonzo A., Paonia, Colo. Terminal link for skid chains. No. 1,402,868; Jan. 10.
- King Automatic Trolley Co. (See Trew, Thomas J., assignor.)
- King, Bert W., Detroit, Mich. Scale. No. 1,416,719; May 23.
- King, Bert W., assignor to Barnes Scale Company, Detroit, Mich. Computing scale. No. 1,408,703; Mar. 7.
- King, Bert W., assignor to Barnes Scale Company, Detroit, Mich. V-bearing for weighing scales. No. 1,426,393; Aug. 22.
- King, Bertell W., New York, N. Y. Automatic locating and displacing mechanism. No. 1,408,096; Feb. 28.
- King, Charles B. (See King, George W. and C. S., Jacoby, Roush, and Holmes.)
- King, Charles C., assignor to The Lake Torpedo Boat Company, Bridgeport, Conn. Storage-battery-ventilating system. No. 1,416,214; May 16.
- King, Charles E., assignor to Capen Belting and Rubber Company, St. Louis, Mo. Cutting machine. No. 1,406,459; Feb. 14.
- King, Charles W., assignor to The King-Quigley Manufacturing Co., Memphis, Tenn. Tire-rim tool. No. 1,431,163; Oct. 10.
- King, Clarence E., Salt Lake City, Utah. Building-block mold. No. 1,409,300; Mar. 14.
- King, Edward C., Los Angeles, Calif. Reducing ores. No. 1,425,386; Aug. 8.
- King, Elmer, Ann Arbor, Mich. Carrier or stretcher. No. 1,438,921; Dec. 12.
- King, Frank B., Guthrie, Okla. Road grader. No. 1,413,664; Apr. 25.
- King, Fred B., and R. L. Stevens, assignors to National Spring & Wire Company, Albion, Mich. Cushioned seat. No. 1,419,270; June 13.
- King, Frederick G. (See King, Lewis F. and F. G.)
- King, Frederick W., New York, N. Y., assignor to Julius King Optical Company. Goggles. No. 1,405,787; Feb. 7.
- King, George S., Berkeley, Calif. Auxiliary air-supply for explosion engines. No. 1,413,124; Apr. 18.
- King, George W., New York, N. Y. Metal polish. No. 1,434,124; Oct. 31.
- King, George W., deceased, by S. King, executrix, C. B. King, B. Jacoby, H. E. Roush, Marion, Ohio, and G. Holmes, Danville, Ill., assignors to The Marion Steam Shovel Co., Marion, Ohio. Level indicator for platforms. No. 1,423,529; July 25.
- King, Gustave A., Chicago, Ill. Toy. No. 1,423,566; July 25.
- King, Henry A., Baltimore, Md. Turbine. No. 1,424,167; Aug. 1.
- King, Horace W., Ann Arbor, Mich. Depth-indicating device. No. 1,419,387; June 13.
- King, Horace W., Ann Arbor, Mich. Depth-indicating device. No. 1,419,388; June 13.
- King, Horace W., Ann Arbor, Mich. Depth-indicating device. No. 1,423,118; July 18.
- King, Horace W., Ann Arbor, Mich. Depth-indicating device. No. 1,423,223; July 18.
- King, Hosea B., near Desmet, Idaho. Engine. No. 1,421,254; June 27.
- King, Howard K., Philadelphia, Pa., assignor to Chambers Brothers Company. Sheet feeding. No. 1,412,872; Apr. 18.
- King, Ivan, Los Angeles, Calif. Stove. No. 1,425,780; Aug. 15.
- King, Ivan, Los Angeles, Calif. Single-chamber oven. No. 1,433,893; Oct. 31.
- King, Ivan, Los Angeles, Calif. Multiple-chamber oven. No. 1,439,172; Dec. 19.
- King, J. Charles. (See Baddeley, Benjamin F., assignor.)
- King, James F., Worcester, Mass. Holder for electric lamps and the like. No. 1,423,119; July 18.
- King, James S., London, England, assignor of one-half to Charles Knight & Company, Limited. Loose-leaf ledger and the like. No. 1,431,404; Oct. 10.
- King, James T., Toronto, Ontario, Canada. Mouthpiece for brass wind instruments. No. 1,410,322; Mar. 21.
- King, John, Leeds, England. Pedestal for supporting shafting and other rotating portions of machinery, and means for lubricating the same. No. 1,405,226; Jan. 31.
- King, John D., Syracuse, N. Y. Chain-link coupling. No. 1,426,877; Aug. 22.
- King, John F., Kalispell, Mont. Awning-roller construction. No. 1,424,572; Aug. 1.
- King, John O. (See Pohl, Charles, assignor.)
- King, John P., assignor of one-half to L. E. Danforth, Providence, R. I. Forming tire casings. No. 1,407,159; Feb. 21.
- King, John Y., Lansdowne, Pa. Air-feeding device. No. 1,405,520; Feb. 7.
- King, John Y., Lansdowne, Pa. Air-feeding device for coal stoves. No. 1,431,585; Oct. 10.
- King, Joseph F., assignor of one-half to H. B. Haines, Philadelphia, Pa. Dyeing and bleaching. No. 1,409,184; Mar. 14.
- King, Julius, Optical Company. (See King, Frederick W., assignor.)
- King, Leonard, Hampstead, London, England. Drilling machine. No. 1,410,815; Mar. 28.
- King, Lewis F., Poole, and F. G. King, Farnborough, England. Carburetor for internal-combustion engines. No. 1,426,570; Aug. 22.
- King Lock Company. (See Christoph, Emil A., assignor.)
- King Lock Company. (See Lozon, Ramon J., assignor.)
- King, Matthew H., Sheboygan, Wis. Excess-current arrester. No. 1,408,606; Mar. 7.
- King, Norman C., Du Bois, Pa. Drill. No. 1,416,647; May 16.
- King, Otto S., Weehawken, N. J. Semiautomatic filling device for toy balloons. No. 1,431,817; Oct. 10.
- King, Percival F., Shreveport, La. Plier wrench. No. 1,406,032; Feb. 7.
- King, Percival F., Shreveport, La. Plier wrench. No. 1,438,442; Dec. 12.
- King, Peter J., Milwaukee, Wis. Pipe cutter. No. 1,413,228; Apr. 18.
- King, Roy D., Chicago, Ill., assignor, by mesne assignments, to American Sales Company, Monroe, La. Adding machine. No. 1,404,443; Jan. 24.
- King, Roy D., assignor to Coin Controlled Lock Company, Chicago, Ill. Key-cutting machine. No. 1,410,683; Mar. 28.
- King, Rufus, Plainville, assignor to Bugbee & Niles Company, North Attleboro, Mass. Ribbon bracelet. No. 1,406,647; Feb. 14.

Alphabetical list of patentees—Continued.

- King, Rufus, Plainville, assignor to Bugbee & Niles Company, North Attleboro, Mass. Ribbon bracelet. No. 1,415,366; May 9.
- King, Rufus, Plainville, assignor to Bugbee & Niles Company, North Attleboro, Mass. Ribbon watch-bracelet fastening. No. 1,440,298; Dec. 26.
- King, Sarah, executrix. (See King, George W. and C. S., Jacoby, Roush, and Holmes.)
- King, Ulysses G. (See Lea, Edward S., assignor.)
- King, Vernon F. (See Rand, J. H., jr., and King.)
- King, Walter E., Houston, Tex. Hydraulic swivel. No. 1,432,109; Oct. 17.
- King, Wayne W. (See King, William T. and W. W.)
- King, William and W. L., Victoria, British Columbia, Canada. Leather substitute. No. 1,409,301; Mar. 14.
- King, William L. (See King, William and W. L.)
- King, William T. and W., Alliance, Ohio. Emergency automobile tire. No. 1,432,398; Oct. 17.
- King & Hamilton Company. (See Gilman, Albert E., assignor.)
- King-Quigley Manufacturing Co., The. (See King, Charles W., assignor.)
- Kingsbury, Albert. (See Dearborn, Richard J., assignor.)
- Kingsbury, Albert. (See Wadsworth, Frank L. O., assignor.)
- Kingsbury, Albert, Pittsburgh, Pa. Bearing. No. 1,403,694; Jan. 17.
- Kingsbury, Albert, Pittsburgh, Pa. Bearing. No. 1,412,353; Apr. 11.
- Kingsbury, Albert, Pittsburgh, Pa. Bearing. No. 1,417,072; May 23.
- Kingsbury, Albert, Pittsburgh, Pa. Bearing. No. 1,421,695; July 4.
- Kingsbury, Albert, Greenwich, Conn. Bearing. No. 1,422,448; July 11.
- Kingsbury, Albert, Pittsburgh, Pa. Bearing for horizontal or inclined shafts. No. 1,425,978; Aug. 15.
- Kingsbury, Albert, Pittsburgh, Pa. Bearing. No. 1,425,979; Aug. 15.
- Kingsbury, Albert, Pittsburgh, Pa. Bearing. No. 1,428,640; Sept. 12.
- Kingsbury, Albert, Pittsburgh, Pa. Bearing. No. 1,429,744; Sept. 19.
- Kingsbury, Albert, Greenwich, Conn. Bearing. No. 1,440,299; Dec. 26.
- Kingsbury, Albert, and H. A. S. Howarth, Pittsburgh, Pa.; said Howarth assignor to said Kingsbury. Bearing. No. 1,409,552; Mar. 14.
- Kingsbury, Albert, and Frank L. O. Wadsworth, Pittsburgh, Pa.; said Wadsworth assignor to said Kingsbury. Bearing. No. 1,436,265; Nov. 21.
- Kingsbury, Charles A., assignor to F. A. Hardy & Company, Chicago, Ill. Lineman's blanket. No. 1,403,034; Jan. 10.
- Kingsbury, Edwin F., Rutherford, N. J. Focal plane-shutter-curtain-depressing mechanism. No. 1,427,824; Sept. 5.
- Kingsbury, Edwin F., Rutherford, N. J., assignor to Eastman Kodak Company, Rochester, N. Y. Spool-centering device. No. 1,402,167; Jan. 3.
- Kingsbury, William M. (See Foot, M. L., and Kingsbury.)
- Kingsley, Herbert B., assignor of two-fifths to W. D. Hill, Jewett City, Conn. Device for removing condensate. No. 1,413,480; Apr. 18.
- Kingston, Alfred P., Little Falls, N. Y. Shoe and sole therefor. No. 1,406,033; Feb. 7.
- Kingston, Alonzo. (See Murphy, Walter H., assignor.)
- Kingston, James S., Ottawa, Ontario, Canada. Fire-hose bridge. No. 1,435,072; Nov. 7.
- Kininmonth, Colin P., assignor to Henry Simon Limited, Manchester, England. Elevator. No. 1,421,787; July 4.
- Kinkead, J. B., et al. (See Thomas, Martin E., assignor.)
- Kinnaird, Thomas M., Clarksburg, W. Va. Automobile tool. No. 1,437,252; Nov. 28.
- Kinnard, Frank M., assignor of one-half to C. L. Sebring, Sebring, Ohio. Spreader. No. 1,430,309; Sept. 26.
- Kinnard, Laban B., Jacksonville, Tex. Air cycle. No. 1,424,653; Aug. 1.
- Kinney, Charles, Elmira Heights, assignor, by mesne assignments, of one-third to L. M. Ostrander, Elmira, N. Y. Sulky plow. No. 1,420,108; June 20.
- Kinney, William A., Philadelphia, Pa. Automobile heater. No. 1,421,255; June 27.
- Kinnie, David A. (See Cox, D. R., and Kinnie.)
- Kinoshita, Yoshinori, Toyotama-gun, Japan. Ruling device. No. 1,434,347; Oct. 31.
- Kinser, Henry F., Chattanooga, Tenn. Scale. No. 1,422,104; July 11.
- Kinser, Isaac E., Dallas, Tex. Motor terminal connection. No. 1,419,571; June 13.
- Kinsley, William S., Reading, assignor to The Russell Company, Boston, Mass. Transfer mechanism. No. 1,414,699; May 2.
- Kinsman, Frank H., Nevada, Iowa. Leading rack. No. 1,403,789; Jan. 17.
- Kintner, Samuel M., Pittsburgh, Pa., assignor to International Devices Company. Speed governor. No. 1,409,553; Mar. 14.
- Kintzele, Julius H. (See Manheimer, A., Etter, and Kintzele.)
- Kintzele, Julius H., A. Manheimer, and F. M. Etter, St. Louis, Mo. Washer-placing machine for rubber-heel molds. No. 1,424,920; Aug. 8.
- Kinzbach, Frank, Humble, Tex. Casing-head attachment. No. 1,425,022; Aug. 8.
- Kinzer, Philip G., Seattle, Wash., assignor, by mesne assignments, to Carnation Milk Products Company, Chicago, Ill. Milk product and making it. No. 1,432,699; Oct. 17.
- Kluzie, Phillip A., Littleton, Colo. Cranking mechanism for tractor, truck, and other heavy-duty engines. No. 1,424,485; Aug. 1.
- Kinzie, Phillip A., Littleton, Colo. Fuel-feeding apparatus. No. 1,424,486; Aug. 1.
- Kinzinger, Frank J., Windsor, Ontario, Canada. Multiple brick mold. No. 1,406,460; Feb. 14.
- Kinzlberger & Co. (See Porthelm, Emil, assignor.)
- Kinzler, Edward F., assignor of one-half to R. Rawsthorne, jr., Pittsburgh, Pa. Device for reduction and enlargement control. No. 1,438,498; Dec. 12.
- Kip, Thomas H., New York, N. Y. Vehicle tire. No. 1,407,756; Feb. 28.
- Kiper, Woodford A., Carrollton, Ky. Nut lock. No. 1,433,382; Oct. 24.
- Kipniss, Abraham, Arverne, N. Y., assignor to Progressive Machine and Metal Products Co., Inc. Drill chuck. No. 1,405,921; Feb. 7.
- Kippen, Elma. (See Kippen, James W. and E.)
- Kippen, James W. and E., Tecumseh, Mich. Convertible automobile body. No. 1,410,192; Mar. 21.
- Kipper, Allen F., Glendale, Calif. Wind deflector and rear-sight mirror. No. 1,435,310; Nov. 14.
- Kipper, Herman B., Muskegon, Mich. Increasing speed in chemical reactions. No. 1,435,928; Nov. 21.
- Kiracofe, Otterbein P., East Rutherford, N. J., assignor to The Flintkote Company, Boston, Mass. Roofing machine. No. 1,410,018; Mar. 21.
- Kirby, Ambrose M., St. Louis, Mo. Hospital bed. No. 1,429,080; Sept. 12.
- Kirby, James B., Cleveland, Ohio. Valve-operating device for internal-combustion engines. No. 1,405,597; Feb. 7.
- Kirby, James B., Cleveland, Ohio. Washing machine. No. 1,407,201; Feb. 21.
- Kirby, James B., Cleveland, Ohio. Suction sweeper. No. 1,421,957; July 4.
- Kirby, James B., Cleveland, Ohio. Suction sweeper. No. 1,421,958; July 4.
- Kirby, James B., Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company, Inc. Suction cleaner. No. 1,422,105; July 11.
- Kirby, John, Jr. (See Hutchins, R. J., and Kirby.)
- Kirby, John J., Susanville, Calif. Detachable handle for pans and kettles. No. 1,414,189; Apr. 25.
- Kirby, John J., Susanville, Calif. Detachable handle for vessels. No. 1,419,860; June 13.
- Kirch, Charles, Pasadena, Calif. Combination bumper and fender. No. 1,438,533; Dec. 12.
- Kirchener, Henry W., St. Louis, Mo. Spring wheel. No. 1,411,665; Apr. 4.
- Kircher, Charles G. (See Edison, T. A., and Kircher.)
- Kircher, Paul, assignor to Massey Concrete Products Corporation, Chicago, Ill. Cribbing. No. 1,428,595; Sept. 12.
- Kirchman, William, assignor to The Engineering Works, Van Buren, Ark. Mining car. No. 1,417,334; May 30.
- Kirchner, Henry W., St. Louis, Mo. System of transportation. No. 1,414,516; May 2.
- Kirgan, Edward F., Cincinnati, Ohio. Universal measuring implement. No. 1,416,473; May 16.
- Kirk-Barber Company. (See Barber, Orren E., assignor.)
- Kirk, Charles J., New Castle, Pa. Heat-treating furnace and method. No. 1,418,446; June 6.
- Kirk, Clyde W. (See Malinowsky, L. B., and Kirk.)
- Kirk, John L., Waynesboro, Pa. Pocket. No. 1,423,434; July 18.
- Kirk, Theodore H. (See O'Bryan, L. T., Silk, and Kirk.)
- Kirk, Walter I. (See Healy, M. A., and Kirk.)
- Kirk, Walter I. (See Jefferson, B. E., and Kirk.)
- Kirk, Walter I., assignor to Lyon & Healy, Chicago, Ill. Stringed musical instrument. No. 1,437,379; Nov. 28.
- Kirk, William C. (See Upton, F. B., and Kirk.)
- Kirk, William C., Sr., Chattanooga, Tenn. Jack. No. 1,418,654; June 6.
- Kirke, Wallace B., Schenectady, N. Y., assignor to General Electric Company. Regulating system for alternating-current circuits. No. 1,414,652; May 2.
- Kirkham, Charles B., Garden City, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Lubricating device for internal-combustion engines. No. 1,404,861; Jan. 31.
- Kirkham, Charles B., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Magneto gearing. No. 1,423,334; July 18.
- Kirkham, Charles B., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Propeller-hub fastening. No. 1,437,471; Dec. 5.
- Kirkham, Charles B., Garden City, and A. L. Thurston, Hempstead, N. Y., assignors to Curtiss Aeroplane and Motor Corporation. Airplane. No. 1,434,547; Nov. 7.
- Kirkland, Arthur, Detroit, Mich. Grinding machine. No. 1,410,761; Mar. 28.

Alphabetical list of patentees—Continued.

- Kirkman, Ora A., Knoxville, Pa. Copper-coating furnace. No. 1,413,034; Apr. 18.
- Kirkpatrick, Amandus J., Altoona, Pa. Tool-handle coupling. No. 1,433,381; Oct. 24.
- Kirkpatrick, Charles, Fairfax, Ala. Mop. No. 1,431,586; Oct. 10.
- Kirkpatrick, Harry J., assignor to The Boeckh Company, Limited, Toronto, Ontario, Canada. Brush. No. 1,415,652; May 9.
- Kirkpatrick, Maurice G. (See Yelm, Charles W., assignor.)
- Kirkpatrick, Otey R., assignor of one-third to C. A. Puckett and one-third to C. M. Mitchell, Fort Worth, Tex. Wrench. No. 1,414,817; May 2.
- Kirkpatrick, Thomas E. (See Beck, G. E., and Kirkpatrick.)
- Kirkpatrick, William. (See Van Hees, A. G., and Kirkpatrick.)
- Kirkpatrick, William D., Itasca, Tex. Cultivator attachment. No. 1,431,464; Oct. 10.
- Kirkup, Joseph P., Elmhurst, assignor to The Borden Company, New York, N. Y. Recovering solids from vapors and means for utilizing the same. No. 1,416,215; May 16.
- Kirkwood, Charles A., Chicago, Ill. Gas plate. No. 1,405,521; Feb. 7.
- Kirkwood, William H., Kittanning, Pa. Rail connector. No. 1,417,531; May 30.
- Kirmes, Edwin W., Melrose, Mass., assignor to Walworth-English-Flett Company, Boston, Mass. Water heater. No. 1,404,973; Jan. 31.
- Kirnbauer, Michael, Forest Park, Ill. Fruit and vegetable cutter. No. 1,415,449; May 9.
- Kirsch, Charles W., Sturgis, Mich. Curtain rod. No. 1,436,449; Nov. 21.
- Kirsch, Louis, Nicktown, Pa. Asbestos-sheet cutter. No. 1,439,556; Dec. 19.
- Kirsch, Otto. (See Schultz, O. R., and Kirsch.) (Re-issue.)
- Kirsch, Raymond R., St. Louis, Mo. Metallic heel. No. 1,412,081; Apr. 11.
- Kirsch, Raymond R., St. Louis, Mo. Metallic heel. No. 1,425,866; Aug. 15.
- Kirschbraun, Lester, Evanston, Ill. Making emulsion. No. 1,417,835; May 30.
- Kirschbraun, Lester, Chicago, Ill. Waterproof board and making same. No. 1,417,836; May 30.
- Kirschbraun, Lester, Evanston, Ill. Making waterproof composition. No. 1,417,837; May 30.
- Kirschbraun, Lester, Evanston, Ill. Colored bituminous composition and making same. No. 1,417,838; May 30.
- Kirschbraun, Lester, Evanston, Ill. Waterproof product. No. 1,417,839; May 30.
- Kirschbraun, Lester, Evanston, Ill. Treating saturated fibrous compositions. No. 1,417,840; May 30.
- Kirschbraun, Lester, Chicago, Ill. Saturating felt. No. 1,417,841; May 30.
- Kirschbraun, Lester, Chicago, Ill. Producing asphaltic products. No. 1,436,450; Nov. 21.
- Kirschke, Frank, Philadelphia, Pa. Rotary barrow. No. 1,418,933; June 6.
- Kirschke, Frank, Philadelphia, Pa. Ball-bearing caster. No. 1,432,760; Oct. 24.
- Kirst, William E. (See Putnam, M. E., and Kirst.)
- Kirstatter, Frank A., Cleveland, Ohio. Electric-motor-driven jack. No. 1,404,862; Jan. 31.
- Kirsten, Frederick B. A. (See Bennett, G. A., and Kirsten.)
- Kirsten, Friedrich, Celle, Germany. Hairpin. No. 1,413,408; Apr. 18.
- Kirstein, E., Sons Company. (See Kirstein, H. E., and Leytham, assignors.)
- Kirstein, Henry E., and T. Leytham, assignors to E. Kirstein Sons Company, Rochester, N. Y. Ophthalmic mounting. No. 1,424,828; Aug. 8.
- Kirsten, Kurt F. J., assignor of one-half to W. E. Boeing, Seattle, Wash. Propeller. No. 1,432,700; Oct. 17.
- Kirtley, Harry, Melcher, Iowa. Electric switch. No. 1,412,354; Apr. 11.
- Kirtley, Otis F. (See Cottongim, W. C., and Kirtley.)
- Kirton, Harry R., South Tacoma, Wash. Alarm attachment for door knobs. No. 1,401,987; Jan. 3.
- Kish, Paul, Detroit, Mich. Combination steering-wheel lock. No. 1,428,963; Sept. 12.
- Kisha-seizo Kabushikikaisha. (See Takuma, Tsunekichi, assignor.)
- Kishline, Floyd F., assignor of one-half to E. E. Wemp, Evansville, Ind. Thrust joint. No. 1,404,444; Jan. 24.
- Kishpaugh, Hampton C., Raymond, Minn. Composition for paint. No. 1,407,662; Feb. 21.
- Kishpaugh, Hampton C., Amandale, Minn. Composition for paint. No. 1,417,842; May 30.
- Kisiel, John A., et al. (See Zakrzewski, Henry, assignor.)
- Kislevitz, Samuel, assignor to Kaumagraph Company, New York, N. Y. Machine for inspecting and cutting fabrics. No. 1,414,818; May 2.
- Kislovitz, Samuel, New York, N. Y. Display stand. No. 1,411,109; Mar. 28.
- Kisor, Lorenz, and R. W. Hammett, Minneapolis, Minn. Seat for farm machinery. No. 1,437,848; Dec. 5.
- Kiss, Joseph, assignor of two-fifths to S. Dodulik, Milwaukee, Wis. Controlling means for fluid motors. No. 1,435,163; Nov. 14.
- Kissel, Clarence A., Detroit, Mich. Automatic train stop. No. 1,429,885; Sept. 19.
- Kissel Motor Car Company. (See Kissel, W. L., and Werner, assignors.)
- Kissel Motor Car Company. (See Palmer, Herman D., assignor.)
- Kissel, William L., and J. F. Werner, assignors to Kissel Motor Car Company, Hartford, Wis. Convertible automobile body. No. 1,438,382; Dec. 12.
- Kissendorfer, Karl, assignor to Waffenfabrik Mauser, A. G., Oberndorf-on-the-Neckar, Germany. Shifting spanner. No. 1,404,445; Jan. 24.
- Kissick, George E., assignor to H. W. K. Company, Inc., Attleboro, Mass. Jewel case. No. 1,414,025; Apr. 25.
- Kissinger, Elmer T., Creston, Ohio. Indicator for baling presses. No. 1,431,587; Oct. 10.
- Kissinger, Herbert B., Lock Haven, Pa. Automatic circuit breaker. No. 1,424,921; Aug. 8.
- Kissinger, Robert C., Dayton, Ohio. Trolley wheel. No. 1,418,579; June 6.
- Kissock, Alan, Tucson, Ariz. Treating molybdenum ores. No. 1,403,035; Jan. 10.
- Kister, Herman, Elizabeth, N. J. Piston. No. 1,423,615; July 25.
- Kistner, Charles E., Cincinnati, Ohio. Dirigible automobile lamp device. No. 1,431,008; Oct. 3.
- Kistner, Herman, Elizabeth, N. J. Piston. No. 1,423,616; July 25.
- Kistner, Herman, Elizabeth, N. J. Piston and piston ring. No. 1,437,977; Dec. 5.
- Kistner, Herman, Elizabeth, assignor to Victory Hammered Piston Ring Company, Newark, N. J. Device for hammering piston rings. No. 1,435,481; Nov. 14.
- Kitchen, John G., Lancaster, England. Pneumatic tire. No. 1,430,236; Sept. 26.
- Kitchens, Archie L., Bagwell, Tex., assignor of one-third to W. M. Mooney, Clarksville, Tex. Electric switch. No. 1,431,818; Oct. 10.
- Kitchingman, Ray S., Racine, Wis. Wardrobe hanger. No. 1,417,921; May 30.
- Kitsee, Isidor, Philadelphia, Pa. Operating direct-current motors. No. 1,405,041; Jan. 31.
- Kitsee, Isidor, Philadelphia, Pa. Producing multicolored screens for photography. No. 1,426,995; Aug. 22.
- Kitsee, Isidor, Philadelphia, Pa. Method and apparatus for producing matrices and for producing color screens therefrom. No. 1,426,996; Aug. 22.
- Kitson, Sarah M., Philadelphia, Pa. Hair fastener. No. 1,424,654; Aug. 1.
- Kittel, George P., Union Hill, N. J. Vaporizer for fuel heaters and burners. No. 1,430,383; Sept. 26.
- Kitterman, Jerome B., Chillicothe, Iowa. Wrench. No. 1,409,554; Mar. 14.
- Kittredge, R. E., et al. (See Parker, Charles W., assignor.)
- Kitts, Willard A., Jr., Paterson, N. J. Blow-off valve. No. 1,414,651; May 2.
- Kitts, Willard A., Jr., Mountain Lakes, N. J. Blow-off valve. No. 1,437,426; Dec. 5.
- Kitzmiller, George M., assignor of one-half to L. Larson, Norfolk, Va. Mail distributor. No. 1,425,387; Aug. 8.
- Kiutsi, Miki, Hakodate, Japan. Ferment filter. No. 1,412,818; Apr. 11.
- Kjellberg, Björn P. F., Stockholm, Sweden. Treating minerals containing iron, titanium, and vanadium. No. 1,419,971; June 20.
- Kjellgren, John G., assignor to The Electric Railway Improvement Co., Cleveland, Ohio. Rheostat. No. 1,404,125; Jan. 17.
- Kjellgren, John G., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Rail bond. No. 1,434,214; Oct. 31.
- Kjelsberg, Olaf, Winterthur, Switzerland. Resilient gear wheel. No. 1,412,355; Apr. 11.
- Klaas, William, Belvidere, Ill. Clothesline clamp. No. 1,433,829; Oct. 31.
- Klagg, Lorenz. (See Miller, Rudolph, assignor.)
- Klapp, Ernest, Dresden, Germany. Ornamental article of manufacture. No. 1,431,465; Oct. 10.
- Klapproth, Charles L., Midland, Tex. Level. No. 1,403,606; Jan. 17.
- Klapproth, Frederick, Chicago, Ill. Box. No. 1,434,781; Nov. 7.
- Klaserner, William L., Ludlow, Ky. Force-feed oil and grease distributor. No. 1,428,547; Sept. 12.
- Klasing, Augustus F., Denver, Colo., assignor to The Klasing Car Brake Company. Car brake. No. 1,420,552; June 20.
- Klasing, Augustus F., Denver, Colo., assignor to The Klasing Car Brake Company. Car brake. No. 1,420,553; June 20.
- Klasing, Augustus F., Chicago, Ill., assignor to The Klasing Car Brake Company. Apparatus for manipulating railway-car brakes. No. 1,420,554; June 20.
- Klasing, Augustus F., Chicago, Ill., assignor to The Klasing Car Brake Company. Lifting device. No. 1,420,555; June 20.
- Klasing, Augustus F., Chicago, Ill., assignor to The Klasing Car Brake Company. Lifting mechanism. No. 1,420,556; June 20.
- Klasing Car Brake Company, The. (See Klasing, Augustus F., assignor.)
- Klasnich, John, Universal, Ind. Lock for motor vehicles. No. 1,419,861; June 13.

- Klass, Raymond N., Des Moines, Iowa. Garter and garment supporter. No. 1,430,742; Oct. 3.
- Klauber, C. & Bros. Inc. (See Klauber, William J., assignor.)
- Klauber, Charles J., et al., executors. (See Klauber, William J.)
- Klauber, William J., deceased. C. J. and W. W. Klauber, executors, New York, assignors to C. Klauber & Bros., Inc., New York, N. Y. Safety razor. No. 1,416,090; May 16.
- Klauber, William W., et al., executors. (See Klauber, William J.)
- Klauder-Weldon Dyeing Machine Company, The. (See Goings, William J., assignor.)
- Klauser Manufacturing Company. (See Flagge, Philipp F., assignor.)
- Klaus, Fred R., and H. W. Kranz, assignors to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Electroplating apparatus. No. 1,429,438; Sept. 19.
- Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Decutchable safety collar for rotatable nuts. No. 1,407,160; Feb. 21.
- Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Decutchable safety collar. No. 1,408,891; Mar. 7.
- Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Oakley, Cincinnati, Ohio. Strain reverter. No. 1,412,806; Apr. 11.
- Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Safety-nut interlock with feed-control lever. No. 1,414,327; Apr. 25.
- Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Gear-like indicator of stripped threads. No. 1,415,005; May 2.
- Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Sectional inspective nut. No. 1,415,840; May 9.
- Klausmeyer, David C., Cincinnati, assignor to The Cincinnati Bickford Tool Company, Oakley, Cincinnati, Ohio. Safety lifting jack. No. 1,417,254; May 23.
- Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Sleeveless reversing clutch. No. 1,418,805; June 6.
- Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Gear-like safety device for stripped threads. No. 1,419,058; June 6.
- Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Rotary sectional inspective nut. No. 1,419,906; June 13.
- Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Oakley, Cincinnati, Ohio. Box table. No. 1,420,321; June 20.
- Klausmeyer, David C., Cincinnati, assignor to The Cincinnati Bickford Tool Company, Oakley, Cincinnati, Ohio. Safety insertable auxiliary lever for air clamps. No. 1,425,388; Aug. 8.
- Klavon, Joseph L., Jackson, Mich. Automobile spark indicator. No. 1,421,495; July 4.
- Klawans, Elliott, Washington, D. C. Link button. No. 1,418,934; June 6.
- Klaxon Company. (See Wheelock, John H., assignor.)
- Kleardax Linen Rug Company. (See Goldthwaite, Charles F., assignor.)
- Kleb, Henry, Elizabeth, N. J. Fertilizer pot. No. 1,424,829; Aug. 8.
- Kleber, Gustav, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Automatic brake for hoisting devices. No. 1,408,209; Feb. 28.
- Klebert, Emil, Karlshorst, near Berlin, assignor to Julius Pintsch Akt.-Ges., Berlin, Germany. Porous charge for containers serving for storage of explosive gases dissolved in liquids, as, for instance, acetylene. No. 1,419,862; June 13.
- Kleckner, Arthur C., assignor to Webster Electric Company, Racine, Wis. Magneto. No. 1,417,746; May 30.
- Kleen Products Company. (See Bothé, Andreas, assignor.)
- Kleffman, Ray C., Hibbing, Minn. Rim lug for vehicle wheels. No. 1,416,648; May 16.
- Kleiber, Henry, and F. Mehr, Teaneck, N. J. Winding device for stators and armatures of motors. No. 1,431,819; Oct. 10.
- Kleiminger, Adolph F., assignor of one-half to B. Kleiminger, Chicago, Ill. Protector for icemen and the like. No. 1,414,136; Apr. 25.
- Kleiminger, Bertha. (See Kleiminger, Adolph F., assignor.)
- Klein, Adolph, New York, N. Y. Making a lead-coated copper sheeting. No. 1,437,316; Nov. 28.
- Klein, Adolph A., Philadelphia, Pa. Larder. No. 1,433,894; Oct. 31.
- Klein, Alexander. (See Dixon, T. K., Cox, and Klein.)
- Klein, Carl, Wichita, Kans. Metallic fencepost. No. 1,408,007; Feb. 28.
- Klein, Charles H., Chaska, Minn. Drier car. No. 1,416,091; May 16.
- Klein, Charles H., Chaska, Minn. Machine for automatically loading bricks on pallets into rack-drier cars. No. 1,427,825; Sept. 5.
- Klein, Charles H., Jersey City, N. J., assignor to American Telephone and Telegraph Company. Heater for soldering coppers. No. 1,415,098; May 9.
- Klein, Charles J., deceased, Milwaukee, Wis., by H. C. Klein, administrator, Yonkers, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,408,097; Feb. 28.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric candle and the like. No. 1,417,532; May 30.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,431,235; Oct. 10.
- Klein, Ernest W., Los Angeles, Calif. Musical toy. No. 1,437,317; Nov. 28.
- Klein, Erwin, Voslau, near Vienna, Austria. Preparing dried yeast. No. 1,420,557; June 20.
- Klein, Erwin, Voslau, near Vienna, Austria. Drying yeast. No. 1,420,558; June 20.
- Klein, Fred E. (See Rosenthal, Morris G., assignor.)
- Klein, Frederick, New York, N. Y. Nitrosulphone of selenium. No. 1,412,873; Apr. 18.
- Klein, George J., Cleveland, Ohio. Lighting fixture. No. 1,440,301; Dec. 26.
- Klein, Harry H., New York, N. Y. Hair waver. No. 1,425,527; Aug. 15.
- Klein, Henry and P. J., Detroit, Mich. Building construction. No. 1,429,355; Sept. 19.
- Klein, Henry C., administrator. (See Klein, Charles J.)
- Klein, Herman. (See Gaertner, R., and Klein.)
- Klein, Herman A., Yuba City, Calif. Collar. No. 1,431,009; Oct. 3.
- Klein, John, Cleveland, Ohio. Parlor floor lamp. No. 1,431,670; Oct. 10.
- Klein, Joseph A., New York, N. Y. Medicinal compound. No. 1,420,634; June 27.
- Klein, Louis. (See Jones, W. W., and Klein.)
- Klein, Maurice, Brooklyn, N. Y. Bloomer dress. No. 1,419,059; June 6.
- Klein, Max, Philadelphia, Pa. Lighting fixture. No. 1,431,588; Oct. 10.
- Klein, Max, assignor to Shapiro & Aronson, Inc., New York, N. Y. Socket-suspension means. No. 1,438,499; Dec. 12.
- Klein, Oskar K., St. Louis, Mo. Lock. No. 1,407,808; Feb. 28.
- Klein, Paul J. (See Klein, Henry and P. J.)
- Klein, Peter J., and E. Kenny, Naugatuck, Conn. Press and process for vulcanizing rubber shoes. No. 1,432,469; Oct. 17.
- Klein, Roy A., W. H. Burtis, and L. U. Eyerly, Salem, Oreg. Elevating mechanism for automotive trucks. No. 1,429,038; Sept. 12.
- Klein, Rudolph, assignor to Ilex Optical Company, Rochester, N. Y. Iris diaphragm. No. 1,423,224; July 18.
- Klein, Rudolph, assignor to Ilex Optical Company, Rochester, N. Y. Photographic shutter. No. 1,425,980; Aug. 15.
- Klein, Rudolph, Fuels, and G. B. Ritzel, Valmeyer, Ill. Machine wrench. No. 1,429,886; Sept. 19.
- Kleinberg, Henry H., Brooklyn, N. Y. Reserve-supply tank. No. 1,419,145; June 13.
- Kleinert, I. B., Rubber Company. (See Guinzburg, Victor, assignor.)
- Kleinmann, Ernst, Berlin, Germany. Button. No. 1,426,651; Aug. 22.
- Kleinman, Jacob L., New York, N. Y. Pencil. No. 1,437,897; Dec. 5.
- Kleinschmidt, Daniel H., Buffalo, N. Y. Evaporating apparatus. No. 1,412,531; Apr. 11.
- Kleinschmidt, Edward E., Brooklyn, N. Y. Keyboard tape perforator. No. 1,420,931; June 27.
- Kleinschmidt, Edward E., Brooklyn, N. Y., assignor to Kleinschmidt Electric Company, Inc. Indicating mechanism. No. 1,419,146; June 13.
- Kleinschmidt Electric Company. (See Kleinschmidt, Edward E., assignor.)
- Kleinschmidt, Henry F. A. (See Brown, W. M., and Kleinschmidt.)
- Klemmer, Benjamin, assignor of one-half to M. Goldring, Providence, R. I. Automatic opener for traveling bags and the like. No. 1,419,934; June 20.
- Klemm, Edwin O. (See Brooks, C. C., and Klemm.)
- Klemm, Edwin O., Dayton, Ohio, assignor to Klemm Manufacturing Company, Saginaw, Mich. Control means for graphophones. No. 1,417,747; May 30.
- Klemm, Edwin O., Dayton, Ohio, assignor to Klemm Manufacturing Company, Fenton, Mich. Control mechanism for graphophones. No. 1,417,748; May 30.
- Klemm, Emil R., Chicago, Ill. Vehicle. No. 1,410,193; Mar. 21.
- Klemm Manufacturing Company. (See Brooks, C. C., and Klemm, assignors.)
- Klemm Manufacturing Company. (See Klemm, Edwin O., assignor.)
- Klemmer, George A., Owatonna, Minn. Adjustable support for testing electrical units. No. 1,418,655; June 6.
- Klenck, John H., Clarendon, Pa. Pen or pencil clip. No. 1,404,863; Jan. 31.
- Klepetchko, Ernest. (See Laist, F., Frick, Klepetchko, and Davidson.)
- Klepper, Perry T., et al. (See Quinn, William W., assignor.)
- Kletke, Gottlieb, Alva, Okla. Tractor. No. 1,412,944; Apr. 18.

Alphabetical list of patentees—Continued.

- Klewanech, John, Royalton, Ill. Mine-fire-fighting apparatus. No. 1,421,496; July 4.
- Klewinghaus, Friedrich. (See Rasche, Paul, assignor.)
- Kligge, Albert, assignor of one-half to P. A. Schumacher. Brooklyn, N. Y. Piston locator. No. 1,420,110; June 20.
- Kline, Albert, Chicago, Ill. Freight-car lock. No. 1,424,168; Aug. 1.
- Kline, Ambrose E., Brookville, Pa. Sign. No. 1,419,863; June 13.
- Kline, Benton M., assignor to Reiff and Nestor Company. Lykens, Pa. Expandable reamer. No. 1,435,164; Nov. 14.
- Kline, Charles R., Reading, Pa. Furnace-base insulation. No. 1,428,548; Sept. 12.
- Kline, Edward M. (See Barber, William J., assignor.)
- Kline, Edwin E., et al. (See Hart, Albert J., assignor.)
- Kline Engineering Company, The. (See Kline, Walter, assignor.)
- Kline, Fred J. (See Grant, James W., assignor.)
- Kline, Fred J., New York, N. Y. Device for securing cards or labels on filing units. No. 1,434,125; Oct. 31.
- Kline, George P., assignor to Williams, White & Company, Moline, Ill. Metal-punching machine. No. 1,415,246; May 9.
- Kline, George P., assignor to Williams, White & Company, Moline, Ill. Spacing machine. No. 1,416,299; May 16.
- Kline, Nick W., assignor of one-half to R. S. Berry, Los Angeles, Calif. Necktie holder. No. 1,430,909; Oct. 3.
- Kline, Walter, assignor to The Kline Engineering Company, Chillicothe, Ohio. Method and apparatus for manufacturing tires. No. 1,417,180; May 23.
- Kline, William F. (See Baugher, J. and Kline.)
- Klineline, George M., Harrisburg, Pa. Demountable rim for vehicle wheels. No. 1,404,864; Jan. 31.
- Kling, Fred E., Youngstown, Ohio. Hot-blast stove. No. 1,421,256; June 27.
- Klingel, Edward L., St. Paul, Minn. Thermostat. No. 1,403,963; Jan. 17.
- Klingel, Edward L., St. Paul, Minn. Telegraph apparatus. No. 1,418,000; May 30.
- Klingensmith, John W., et al. (See Musser, Alfred J., assignor.)
- Klinger, Peter W. (See Walther, G. and Klinger.)
- Klink, Eugene J., and F. Mueller, Juneau, Wis. Automatic stop attachment for tractors. No. 1,437,522; Dec. 5.
- Klinkhammer, Peter, Los Angeles, Calif. Necktie holder. No. 1,423,498; July 18.
- Klise, Earl L., Le Mars, Iowa. Starter for internal-combustion engines. No. 1,416,720; May 23.
- Klock, Harold F., Elgin, Ill. Support for vehicles. No. 1,428,964; Sept. 12.
- Klocke, W., and J. E. Dobson, New York, assignors to E. W. Bliss Company, Brooklyn, N. Y. Drawing press or the like. No. 1,411,036; Mar. 28.
- Klocke, William, New York, N. Y. Safety device for slide-operating mechanism in presses. No. 1,407,870; Feb. 28.
- Klocke, William, Woodhaven, assignor to E. W. Bliss Company, Brooklyn, N. Y. Drawing press. No. 1,404,911; Jan. 31.
- Klocke, William, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Press. No. 1,407,161; Feb. 21.
- Klocke, William, Woodhaven, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y. Drawing press. No. 1,407,869; Feb. 28.
- Klocke, William, Woodhaven, assignor to E. W. Bliss Company, Brooklyn, N. Y. Press. No. 1,423,617; July 25.
- Klocke, William, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Press. No. 1,423,769; July 25.
- Klocke, William, Woodhaven, assignor to E. W. Bliss Company, Brooklyn, N. Y. Toggle press. No. 1,433,626; Oct. 31.
- Klocke, William, Woodhaven, assignor to E. W. Bliss Company, Brooklyn, N. Y. Press or the like. No. 1,433,627; Oct. 31.
- Klocke, William, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Press. No. 1,435,532; Nov. 14.
- Klocke, William, Woodhaven, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y. Process and apparatus for expanding metal shells. No. 1,436,659; Nov. 28.
- Kloeffler, Royce G., Manhattan, Kans. Electrical heating unit. No. 1,421,959; July 4.
- Kloehn, Louis F., Minneapolis, Minn. Portable derrick. No. 1,402,074; Jan. 3.
- Klopper, Valentine C., assignor of one-half to C. A. Marien, St. Louis, Mo. Hook for antiskid tire chains. No. 1,406,461; Feb. 14.
- Klopper, Valentine C., St. Louis, Mo. Combined support and guard. No. 1,429,039; Sept. 12.
- Klopping, Charles A., Hoboken, N. J. Machine for making pastils. No. 1,419,147; June 13.
- Kloetzer, Otto F., Washington, Ind. Flag holder and classification lamp. No. 1,406,034; Feb. 7.
- Kloetzer, Otto F., Washington, Ind. Order-hoop holder. No. 1,439,557; Dec. 19.
- Klohn, Richard A., St. Paul, Minn. Furniture polish. No. 1,438,118; Dec. 5.
- Kloman, Charles A., Bellevue, Pa. Device for crushing coal and other materials. No. 1,408,607; Mar. 7.
- Klombers, Max, New York, N. Y. Brief case. No. 1,425,491; Aug. 8.
- Klomfass, Eugene C., Chicago, Ill. Burglar alarm and lock. No. 1,419,738; June 13.
- Kloneck, August J., New York, N. Y. Making porous plates. No. 1,403,036; Jan. 10.
- Kloneck, August J., New York, N. Y. Spark plug. No. 1,412,874; Apr. 18.
- Kloneck, Austen J., New York, N. Y. Lantern lens. No. 1,407,427; Feb. 21.
- Kloneck, Austen J., New York, N. Y. Gearing for engine starting and lighting generators. No. 1,427,301; Aug. 29.
- Kloneck, Austen J., New York, N. Y. Tire for vehicles. No. 1,427,302; Aug. 29.
- Klopf, Katharine A., Elizabeth, Ill. Book container. No. 1,438,181; Dec. 12.
- Klopfenstein, Christian C., Bisbee, Ariz. Tire guard. No. 1,409,899; Mar. 14.
- Klopper, August C., Asbury Park, N. J. Wrench. No. 1,420,635; June 27.
- Klore, W. W., et al., trustees. (See Kluefer, Guy L., assignor.)
- Klorer, Charles P., assignor to Miller Saw-Trimmer Company, Pittsburgh, Pa. Sheet-registering device. No. 1,419,148; June 13.
- Klorer, Charles P., assignor to Miller Saw-Trimmer Company, Pittsburgh, Pa. Sheet-registering device. No. 1,419,149; June 13.
- Klorer, Charles P., assignor to Miller Saw-Trimmer Company, Pittsburgh, Pa. Ink-fountain partition. No. 1,433,954; Oct. 31.
- Klossner, Carl, Milwaukee, Wis. Container cover fastener. No. 1,411,734; Apr. 4.
- Klostermann, Albert P. M., and H. O. R. Lubke, Hoboken, N. J. Stopple. No. 1,433,383; Oct. 24.
- Klots, W. J., Raw Silk Cleaner Co. (See Klots, Walter J., assignor.)
- Klots, Walter J., Scranton, Pa., assignor to W. J. Klots Raw Silk Cleaner Co. Inc. Thread cleaner. No. 1,422,106; July 11.
- Klove, George A., Nevada, Iowa. Coin sorter. No. 1,411,848; Apr. 4.
- Kluefer, Guy L., assignor to R. J. Coyne, W. M. Rettig, W. W. Klore, and N. R. Barr, trustees for Multi-X Aircraft & Motors Company, Chicago, Ill. Piston-valve-controlling means. No. 1,431,589; Oct. 10.
- Klug, John H., Random Lake, Wis. Manure carrier. No. 1,434,826; Nov. 7.
- Klug, Louis E., assignor to Rub-Tex Products, Inc., Indianapolis, Ind. Manufacture of rubber jars. No. 1,406,160; Feb. 7.
- Kluge, Albert, Milaca, Minn. Curbing mold. No. 1,430,562; Oct. 3.
- Klump, Edward A., Basil, Ohio. Hog feeder. (Reissue.) No. 15,283; Feb. 14.
- Klump, August F., et al. (See Charlton, Robert W., assignor.)
- Kluz, Paul W., Chicago, Ill. Tool holder. No. 1,404,446; Jan. 24.
- Kmentt, Waldemar D., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Heel-mold-washing device. No. 1,407,757; Feb. 28.
- Knaak, George A., Milwaukee, Wis. Controlling apparatus. No. 1,416,092; May 16.
- Knackstedt, Louis C., Annapolis, Md. Support for eyeglasses and eyeshades. No. 1,435,533; Nov. 14.
- Knapp, Archer L., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. No. 1,431,466; Oct. 10.
- Knapp, David R., Pottsville, assignor to Co-Operative Utilities Co., Inc., Philadelphia, Pa. Adapter for motor-brush shunts. No. 1,415,577; May 9.
- Knapp, David R., Pottsville, Pa. Hoisting mechanism. No. 1,439,245; Dec. 19.
- Knapp, Emma, assignor to W. F. Knapp, Denver, Colo. Hasp-lock. No. 1,403,252; Jan. 10.
- Knapp, Emma, assignor to W. F. Knapp, Denver, Colo. Hasp lock. No. 1,403,253; Jan. 10.
- Knapp, Emma, assignor to W. F. Knapp, Denver, Colo. Fastening. No. 1,419,864; June 13.
- Knapp, Frank D., Binghamton, and F. L. Jackson, Endicott, N. Y. Tool for laying out templates and jigs. No. 1,408,098; Feb. 28.
- Knapp, Lester W. (See Anderson, C. F., and Knapp.)
- Knapp, Sewell A., San Francisco, Calif. Composite barrel. No. 1,438,119; Dec. 5.
- Knapp, Walter C., assignor to Liberty Bread Slicer Inc., Rochester, N. Y. Slicing machine. No. 1,417,843; May 30.
- Knapp, Walter C., assignor to Liberty Bread Slicer Inc., Rochester, N. Y. Slicing machine. No. 1,417,844; May 30.
- Knapp, William, Bayonne, N. J. Parking light. No. 1,401,988; Jan. 3.
- Knapp, William F. (See Knapp, Emma, assignor.)
- Knauber, Alexander M., assignor to Chicago Electric Sign Company, Chicago, Ill. Sign letter and frame. No. 1,408,210; Feb. 28.
- Knauber, Alexander M., Oak Park, assignor to Chicago Electric Sign Company, Chicago, Ill. Making signs. No. 1,428,334; Sept. 5.
- Knauer, Edgar. (See Pickett, John L., assignor.)

Alphabetical list of patentees—Continued.

- Knaus, John T., Grafton, N. Dak. Potato cutter. No. 1,431,310; Oct. 10.
- Knaus, Peter J., Milwaukee, Wis., assignor, by mesne assignments, to The Risk Rubber Company, Chicopee Falls, Mass. Apparatus for vulcanizing articles of rubber or rubberized fabric. No. 1,422,209; July 11.
- Knauss, Edward, Mount Vernon, N. Y., assignor to K. P. Products Company, Inc., New York, N. Y. Governor for internal-combustion motors. No. 1,436,963; Nov. 28.
- Knaust, Henry B., St. Louis, Mo. Preparing chickens and other edible fowl for cooking and eating. No. 1,433,628; Oct. 31.
- Knecht, Charles, St. Louis, Mo. Automobile wheel hub. No. 1,410,323; Mar. 21.
- Knecht, Heinrich, assignor to Firm Schweizerische Industrie Gesellschaft, Neuhausen, Switzerland, Starting device for motor-driven vehicles. No. 1,436,176; Nov. 21.
- Knechtel, Gideon, Bay City, Mich. Bookcase and drop door operating mechanism. No. 1,403,037; Jan. 10.
- Knee, Aaron A. (See Barefoot, J. C., and Knee.)
- Knee, Allison W., assignor of one-third to G. Hopkins, Greenville, Mich. Railway-crossing gate. No. 1,408,008; Feb. 28.
- Knell, Charles H., assignor to Verona Tool Works, Verona, Pa. Anticreeping device for railway rails. No. 1,416,474; May 16.
- Knell, Charles H., assignor to Verona Tool Works, Verona, Pa. Anticreeping device for railway rails. (Reissue.) No. 15,470; Oct. 17.
- Knepper, Christopher B., assignor to Miller Rubber Company, Akron, Ohio. Quick-detachable pipe connection. No. 1,436,882; Nov. 28.
- Knepper, George E., Altoona, Pa. Railway car. No. 1,429,745; Sept. 19.
- Kneuper, George, Brooklyn, assignor to C. Hansel, New York, N. Y. Filter. No. 1,439,706; Dec. 26.
- Knewitz, Gerhard, East St. Louis, Ill. Machine for measuring and wrapping powders. No. 1,434,248; Oct. 31.
- Knezovich, Sam, Cleveland, Ohio. Ratchet-operating tool. No. 1,403,964; Jan. 17.
- Knick, Glenn R., Troy, Ohio. Automatic stop for phonographs. No. 1,403,038; Jan. 10.
- Knick, Glenn R., Troy, Ohio. Record turner for phonographs. No. 1,422,989; July 18.
- Knipf, William H., assignor to Graham Paper Company, St. Louis, Mo. Shopper's bag. No. 1,418,001; May 30.
- Knipf, William H., assignor to Graham Paper Company, St. Louis, Mo. Marketing bag. No. 1,419,739; June 15.
- Knight-American Patents Company, The. (See Knight, Charles Y., assignor.)
- Knight American Patents Company. (See Porter, Finley R., assignor.)
- Knight, Charles, & Company. (See King, James S., assignor.)
- Knight, Charles Y., Pasadena, Calif., assignor to The Knight-American Patents Company, Chicago, Ill. Engine piston. No. 1,418,719; June 6.
- Knight, Eugene U. (See Kellogg, Charles B., assignor.)
- Knight, Frank P., Manchester, Mass., and J. T. Shimmmin, Hurley, N. Mex.; said Shimmmin assignor to said Knight. Separating feldspar and quartz. No. 1,404,974; Jan. 31.
- Knight, Frederick, assignor to J. G. Colville, Victoria, British Columbia, Canada. Drain valve. No. 1,420,559; June 20.
- Knight, George E., Youngstown, Ohio. Automobile steering-wheel lock. No. 1,439,422; Dec. 19.
- Knight, Grace B., executrix. (See Knight, Richard D.)
- Knight, Herbert, New York, N. Y., and C. A. Brewer, Noroton Heights, Conn.; said Brewer assignor to said Knight. Process of and apparatus for soil treatment. No. 1,424,728; Aug. 1.
- Knight, Hervey S., et al. (See Bair, Joseph H., assignor.)
- Knight, John, Boundbrook, assignor to The John Knight Company, Inc., Elizabeth, N. J. Universal coupling or joint. No. 1,427,110; Aug. 29.
- Knight, Ira W., assignor to General Fire Extinguisher Company, Providence, R. I. Radiator. No. 1,433,955; Oct. 31.
- Knight, John, Boundbrook, N. J. Rope clip. No. 1,428,037; Sept. 5.
- Knight, John, Company, The. (See Knight, John, assignor.)
- Knight, Joseph F., New Haven, Conn. Metallic-belt-loading machine for cartridges. No. 1,403,419; Jan. 10.
- Knight, Ralph F., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Grinding machine. No. 1,419,271; June 13.
- Knight, Ralph F., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Mold and making same. No. 1,419,972; June 20.
- Knight, Ralph F., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Mold for manufacturing of rubber soles. No. 1,438,245; Dec. 12.
- Knight, Raymond A., Canton, Ohio. Sheet-loading device. No. 1,406,656; Feb. 14.
- Knight, Richard D., deceased; G. B. Knight, executrix, Providence, R. I. Flexible tubular clamping jacket. No. 1,435,311; Nov. 14.
- Knight, Stephen. (See Rasmussen, Peter, assignor.)
- Knight, Thomas, Atlanta, Ga. Lock. No. 1,438,652; Dec. 12.
- Knight, Wesley D., McDonough, Ga. Plow. No. 1,421,011; June 27.
- Knight, William, Lathrop, Calif. Door latch. No. 1,407,758; Feb. 28.
- Knight, William E., Delaware, Ohio. Dental mirror. No. 1,423,225; July 18.
- Knipe, Oliver C., Palo Alto, Calif. Recovering gold and apparatus therefor. No. 1,426,746; Aug. 22.
- Knipe, William A., Haverhill, Mass. Innersole for arch-supporting shoes. No. 1,425,263; Aug. 8.
- Knisely, Titus H., Red Lion, Pa. Mud hook. No. 1,413,167; Apr. 18.
- Knittel, Carl, and N. Kesslering, Quincy, Ill. Three-way clamp. No. 1,402,621; Jan. 3.
- Knittel, Paul S., assignor to American Pulverizer Company, St. Louis, Mo. Pulverizing machine. No. 1,424,922; Aug. 8.
- Knittel, Paul S., assignor to American Pulverizer Company, St. Louis, Mo. Pulverizer. No. 1,424,923; Aug. 8.
- Knizek, Prokop G., Chehalis, Wash. Detachable sole for shoes. No. 1,406,657; Feb. 14.
- Knobbs, Charles H., Philadelphia, Pa. Port light. No. 1,412,409; Apr. 11.
- Knobel, Henry G., New Canaan, Conn. Artificial hand. No. 1,426,481; Aug. 22.
- Knobf, Ernest, Reeder, N. Dak. Match safe. No. 1,438,120; Dec. 5.
- Knoble, William B., Tacoma, assignor of one-half to A. L. Johnson, Seattle, Wash. Telescope mount for rifles. No. 1,418,935; June 6.
- Knoblock, Carola, et al. (See Knoblock, William, assignor.)
- Knoblock, James W., assignor to American La France Fire Engine Co., Inc., Elmira, N. Y. Pure-air hood and helmet. No. 1,410,926; Mar. 28.
- Knoblock, James W., assignor to American La France Fire Engine Co., Inc., Elmira, N. Y. Respirator mask. No. 1,410,927; Mar. 28.
- Knoblock, James W., assignor to American La France Fire Engine Co., Inc., Elmira, N. Y. Respirator. No. 1,410,928; Mar. 28.
- Knoblock, James W., New York, assignor to American La France Fire Engine Company, Inc., Elmira, N. Y. Handle for lanterns. No. 1,417,608; May 30.
- Knoblock, William, et al. (See Crissey, Walter H., assignor.)
- Knoblock, William, assignor of one-fourth to C. Knoblock, one-third to W. J. Graham, one-fourth to J. Lamon, and one-sixth to De-Mount Battery Corporation, Philadelphia, Pa. Electric storage battery. No. 1,409,895; Mar. 14.
- Knock, George, Cleveland, Ohio. Filter. No. 1,414,137; Apr. 25.
- Knoderer, Homer G., Englewood, N. J., assignor to General Electric Company. Conduit-coupling device. No. 1,425,781; Aug. 15.
- Knoll, Anthony V., Davenport, Iowa. Radiator. No. 1,407,428; Feb. 21.
- Knoop, August A., Oshkosh, Wis. Claw bar. No. 1,412,356; Apr. 11.
- Knoop, Frederick, Washington, D. C. Tool holder. No. 1,415,578; May 9.
- Knopf, August, Newark, assignor to F. Wiegand, Irvington, N. J. Jewelry snap fastener. No. 1,405,227; Jan. 31.
- Knopf, George V., Sandusky, Ohio. Reed protector. No. 1,410,066; Mar. 21.
- Knorr-Bremse Aktiengesellschaft. (See Hildebrand, Wilhelm, assignor.)
- Knorr, Frederick J. (See Weis, J. A., and Knorr.)
- Knott, Clyde L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Press. No. 1,416,721; May 23.
- Knott, Edward, Los Angeles, Calif. Inner-tube tester. No. 1,416,649; May 16.
- Knott, Harry H., Washington, Iowa, assignor to Washington Manufacturing Company. Shell-strip-cutting machine. No. 1,403,255; Jan. 10.
- Knott, Harry H., E. B. Hammer, and C. J. Jungbluth, Washington, Iowa, assignors to Washington Manufacturing Company. Button-blank-making machine. No. 1,403,254; Jan. 10.
- Knouff, Charles E., Canton, Ohio. Signboard. No. 1,407,548; Feb. 21.
- Knowles, Carroll, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Wheel guard for grinding machines. No. 1,405,922; Feb. 7.
- Knowles, Carroll, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Water-control system for surface grinders. No. 1,416,475; May 16.
- Knowles, Carroll, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Surface grinder. No. 1,424,764; Aug. 8.
- Knowles, Charles L., Kingsley, Iowa. Tire-chain fastener. No. 1,419,060; June 6.
- Knowles, George E. (See Croad, R. B., and Knowles.)
- Knowles, George F., assignor to Federal Motor Truck Company, Detroit, Mich. Truck. No. 1,406,462; Feb. 14.
- Knowles, Harford C., assignor to The Willys-Morrow Company, Elmira, N. Y. Antifriction bearing. No. 1,416,838; May 23.
- Knowles, Harford C., Elmira, N. Y., assignor, by mesne assignments, to The Willys-Morrow Company, Inc. Bearing. No. 1,421,789; July 4.

Alphabetical list of patentees—Continued.

- Knowles, Harford C., assignor to The Willys-Morrow Company, Elmira, N. Y. Antifriction bearing. No. 1,439,901; Dec. 26.
- Knowles, Harve A., Stockport, Iowa. Lumberjack saw. No. 1,415,247; May 9.
- Knowles, Madison M., and J. N. Bates, Fort Branch, Ind. Tractor hitch. No. 1,417,335; May 23.
- Knowlton, Eugene W., assignor to John E. Smith's Sons Company, Buffalo, N. Y. Molding and measuring machine. No. 1,438,315; Dec. 12.
- Knowlton, Eugene W., Buffalo, N. Y., assignor to John E. Smith's Sons Company. Bread-cutting machine. No. 1,418,874; June 6.
- Knox Engineering and Manufacturing Company. (See Hartley, Calvin G., assignor.)
- Knox, George S., East Orange, N. J. Sound-transmitting diaphragm, composition therefor, and making same. No. 1,412,619; Apr. 11.
- Knox, George W., Oklahoma, Okla. Animal poke. No. 1,428,038; Sept. 5.
- Knox, John, Stanhope, assignor to Sintering Machinery Corporation, Mount Olive Township, N. J. Pallet. No. 1,439,473; Dec. 19.
- Knox, Luther L., Bellevue, Pa. Portioning mechanism. No. 1,407,759; Feb. 28.
- Knox, Orville M., Knoxboro, N. Y. Railway crosstie. No. 1,413,917; Apr. 25.
- Knox, Orville M., Knoxboro, N. Y. Metal fencepost. No. 1,419,633; June 13.
- Knox, Orville M., Knoxboro, N. Y. Metal fencepost. No. 1,439,423; Dec. 19.
- Knox, Samuel L. G., San Rafael, Calif. Leveling and plowing machine. No. 1,419,866; June 13.
- Knox, Samuel L. G., San Rafael, Calif. Internal-combustion engine. No. 1,420,266; June 20.
- Knox, William J., assignor to E. D. Warren, New York, N. Y. Method and apparatus for treating or converting compounds preferably of a hydrocarbon nature. No. 1,428,641; Sept. 12.
- Knox, William J., assignor to E. D. Warren, New York, N. Y. Recovery and refining of light hydrocarbon oils and gases from oil wells. No. 1,433,956; Oct. 31.
- Knoxville Glove Company. (See Kyle, Arch, assignor.)
- Knudsen, Edward M., Superior, Wis. Milk-bottle carrier. No. 1,421,257; June 27.
- Knudsen, Fritz W., Washington, D. C. Carcass-splitting machine. No. 1,434,440; Nov. 7.
- Knudsen, Hans L., Milwaukee, Wis. Valve mechanism. No. 1,427,111; Aug. 29.
- Knudsen, John, Brea, Calif. Gas burner. No. 1,407,871; Feb. 28.
- Knudsen, Karsten, Grand Rapids, Mich., assignor to Electric Wheel Co., Associates, Springfield, Mass. Tire-securing means. No. 1,439,424; Dec. 19.
- Knudsen, Barney A., Santa Ana, Calif. Form for concrete walls. No. 1,414,287; Apr. 25.
- Knudsen, Barney A., Santa Ana, Calif. Core for concrete walls. No. 1,414,288; Apr. 25.
- Knuth, Nick, Chicago, Ill. Safety hinge. No. 1,412,875; Apr. 18.
- Knutson, Carl, administrator. (See Knutson, Knute S.)
- Knutson, Chris M., Adams, Minn. Seed-potato cutter and grader. No. 1,438,922; Dec. 12.
- Knutson, Knute S., deceased, Minneapolis, Minn., C. Knutson, administrator. Water-circulating device for gas-engines. No. 1,402,869; Jan. 10.
- Knutson Vacuum Refrigerator Company. (See Knutson, William K., assignor.)
- Knutson, William K., Wichita Falls, Tex. Refrigerator. No. 1,420,711; June 27.
- Knutson, William K., assignor to Knutson Vacuum Refrigerator Company, Wichita Falls, Tex. Refrigerator. No. 1,412,687; Apr. 11.
- Knuusi, Frank O., Huron Mountain, Mich. Protractor. No. 1,416,357; May 16.
- Kny-Scheerer Corporation of America. (See Rudich, Charles, assignor.)
- Kobel, George A., Getzville, N. Y. Method and apparatus for removing water from wells. No. 1,409,346; Mar. 14.
- Kobel, R., et al. (See Buttram, William H., assignor.)
- Kober Chemical Company, Inc. (See Kober, Philip A., assignor.)
- Kober, Ferdinand, Milwaukee, Wis. Refrigerator. No. 1,428,549; Sept. 12.
- Kober, Philip A., Albany, assignor to E. R. Squibb & Sons, New York, N. Y. Making primary arsenic acid. No. 1,405,223; Jan. 31.
- Kober, Philip A., Albany, assignor to Kober Chemical Company, Inc., Hastings-on-the-Hudson, N. Y. Treating fluids. No. 1,409,185; Mar. 14.
- Koch, Albert G., and L. C. Flotow, Appleton, Wis. Carburetor heater. No. 1,407,285; Feb. 21.
- Koch, Daniel, Roxbury, Mass. Shoe. No. 1,419,676; June 13.
- Koch, Eraneous R., Ellwood City, Pa. Chain for automobile tires. No. 1,402,364; Jan. 3.
- Koch, George T., Homer, Ohio, assignor to The Ohio Fuel Supply Company, Pittsburgh, Pa. Manufacture of chlorinated derivatives of hydrocarbons. No. 1,432,761; Oct. 24.
- Koch, Gotthardt, Chicago, Ill. Automobile lock. No. 1,408,518; Mar. 7.
- Koch, Hans, Dietikon, Switzerland. Device for dampening the warp on looms, etc. No. 1,421,498; July 4.
- Koch, Hans, Dietikon, Switzerland. Cupola furnace. No. 1,435,610; Nov. 14.
- Koch, Hans, and H. Müller, Dietikon, Switzerland. Reel frame. No. 1,421,497; July 4.
- Koch, Henry, Jamaica, N. Y., assignor to Dictograph Products Corporation. Sectional switchboard frame. No. 1,432,868; Oct. 24.
- Koch, Louis O., Little Rock, Ark. Portable heater. No. 1,422,449; July 11.
- Koch, Mary, et al. (See Zei, F. W., and Gross, assignors.)
- Koch, Norbert, Essen-Rellinghausen, Germany, assignor, by mesne assignments, to The Alien Property Custodian. Device for adjusting the recoil length of fluid brakes for gun carriages. No. 1,417,922; May 30.
- Koch, Norbert, Essen-Rellinghausen, Germany, assignor, by mesne assignments, to The Alien Property Custodian. Axle spade for mobile artillery. No. 1,417,923; May 30.
- Koch, Wellington A., Plainfield, N. J. Traffic signal. No. 1,422,210; July 11.
- Koch, William A., Evansville, Ind. Corner fastening for bedsteads. No. 1,434,441; Nov. 7.
- Kochan, Wincenty. (See Malec, Frank A., assignor.)
- Kocher, Neil S., assignor to Eastman Kodak Company, Rochester, N. Y. Preparing films. No. 1,437,810; Dec. 5.
- Kochka, Norbert F., Chicago, Ill. Money or like wrapper or band. No. 1,435,165; Nov. 14.
- Kochmit, Edward J., Cleveland, Ohio. Artificial tooth. No. 1,414,475; May 2.
- Kocourek, Henry, assignor to Chicago Flexible Shaft Company, Chicago, Ill. Animal shears. No. 1,404,301; Jan. 24.
- Kocourek, Henry, assignor to Chicago Flexible Shaft Company, Chicago, Ill. Animal shears. No. 1,411,440; Apr. 4.
- Koebe, Henry, Waukesha, Wis. Calipers. No. 1,426,878; Aug. 22.
- Koechlin, Isaac, assignor to Societe Anonyme des Automobiles & Cycles Peugeot, Levallois-Perret, Seine, France. Brake-operating device for velocipedes. No. 1,440,017; Dec. 26.
- Koehler, Edward. (See Conway, J. J., and Koehler.)
- Koehler, Hillard W., Coronado, Calif. Chuck apparatus. No. 1,414,190; Apr. 25.
- Koehler, Howard R., Monaca, Pa. Liquid-measuring apparatus. No. 1,421,499; July 4.
- Koehler, Julius B., assignor to The Monitor Stove Company, Cincinnati, Ohio. Hot-air furnace. No. 1,411,037; Mar. 28.
- Koehler, Maxemilian E., Washington, D. C. Attachment for ironing boards. No. 1,429,081; Sept. 12.
- Koehler, Rudolph, St. Louis, Mo. Burglar alarm. No. 1,429,595; Sept. 19.
- Koehring Company. (See Koehring, Philip A., assignor.)
- Koehring Company. (See Lichtenberg, Erich H., assignor.)
- Koehring, Philip A., assignor, by mesne assignments, to Koehring Company, Milwaukee, Wis. Machine for laying reinforcing for concrete pavement. No. 1,424,169; Aug. 1.
- Koel, Klaas, Inwood, Iowa. Carriage-bolt socket. No. 1,437,811; Dec. 5.
- Koelkebeck, Carl W. A., Pittsburgh, Pa. Sailing vessel. No. 1,438,246; Dec. 12.
- Koelle, Frederick A., Jr., Camden, N. J. Game. No. 1,408,952; Mar. 7.
- Koeln, Christian C., St. Louis, Mo. Boring tool. No. 1,438,653; Dec. 12.
- Koenig, Frank, West Keansburg, N. J. Crab trap. No. 1,403,171; Jan. 10.
- Koenig, Joseph. (See Ellis, W. H., and Koenig.)
- Koenig, Joseph, Two Rivers, Wis. Match box and ash tray for automobiles. No. 1,463,316; Nov. 21.
- Koenigkramer, Frank. (See McManis, J. V., and Koenigkramer.)
- Koenneke, Harry P., and W. F. Miller; said Koenneke assignor of his entire right to G. E. Keller, Dayton, Ohio. Expandable core. No. 1,420,488; June 20.
- Koepke, Charles J., Chicago, Ill. Fountain toothbrush. No. 1,436,883; Nov. 28.
- Koepke, Frank L., Ridgefield, Wash. Artificial bait. No. 1,415,653; May 9.
- Koepke, Richard A., Milwaukee, Wis. Shoe-toe-softening machine. No. 1,425,981; Aug. 15.
- Koepsell, August J., Mayville, Wis. Bookcase. No. 1,421,012; June 27.
- Koerner, Ewald, Dresden, Germany, assignor to United Cigarette Machine Co., Inc., Lynchburg, Va. Machine for applying mouthpiece-forming sheets to cigarette-paper strips. No. 1,417,609; May 30.
- Koerner, George W. (See Brundage, Harry, assignor.)
- Koesterer, William R., Freeburg, Ill. Dirigible headlight. No. 1,431,820; Oct. 10.
- Koewing, Frank, West Orange, N. J., assignor to Koewing Patterns, Inc., New York, N. Y. Pattern for garments. No. 1,419,634; June 13.
- Koewing Patterns, Inc. (See Koewing, Frank, assignor.)
- Kogler, Eduard, assignor to Chillingworth Manufacturing Company, Jersey City, N. J. Gear case. No. 1,409,302; Mar. 14.
- Koher, John D., Wichita, Kans. Door. No. 1,429,509; Sept. 19.
- Kohl, Mike, North Milwaukee, Wis. Wheel-rim retaining and demounting device. No. 1,404,975; Jan. 31.

- Kohl, Oscar E., Rochester, N. Y. Cuff fastener. No. 1,426,571; Aug. 22.
- Kohl, Oscar E., Rochester, N. Y. Cuff link. No. 1,426,572; Aug. 22.
- Kohlbusch, Herman, sr., Inc. (See Hausmann, Charles, assignor.)
- Köhler, August, assignor to Firm Carl Zeiss, Jena, Germany. Lighting system for cinematographs. No. 1,428,103; Sept. 5.
- Kohler Company. (See Brotz, Anton F., assignor.)
- Kohler Company. (See Bucher, William W., assignor.)
- Köhler, Conrad, Zurich, Switzerland. Steam boiler with forced-draft furnace. No. 1,423,335; July 18.
- Köhler, Conrad, Zurich, Switzerland. Steam-driven locomotive. No. 1,429,596; Sept. 19.
- Kohler Die & Specialty Company. (See Orzechowski, Stanley, assignor.)
- Köhler, Ernest, Denver, Colo., assignor to The United Mines and Manufacturing Company. Amusement device, (revolving walking beam.) No. 1,405,923; Feb. 7.
- Köhler, Ernest, Denver, Colo., assignor to The United Mines and Manufacturing Company. Gyrotory roundabout. No. 1,421,013; June 27.
- Köhler, Gottfrid, Bridgeport, Conn., assignor to Cinch Expansion Bolt & Engineering Company, New York, N. Y. Tamping tool. No. 1,420,196; June 20.
- Kohler, Harry F., Dunlop, Pa. Operating mechanism for mine-shaft doors. No. 1,403,420; Jan. 10.
- Kohler, Ineson J., Seattle, Wash. Fireplace damper. No. 1,432,189; Oct. 17.
- Köhler, Lothar, assignor to Dr. Jur. W. Lurman, Bremen, Germany. Tune sheet for automatic musical instruments. No. 1,415,579; May 9.
- Kohler, Paul J., Carrick, Pa. Tube-cutting machine and crimper. No. 1,415,099; May 9.
- Kohlhaas, Herman T., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Vibration detector. No. 1,405,849; Feb. 7.
- Kohlhase, Frank L., Chicago, Ill. Vapor burner. No. 1,415,180; May 9.
- Kohlmeyer, George, C. E. Wing, College Point, and H. Schelhammer, Whitestone Landing, assignors to American Hard Rubber Co., New York, N. Y. Machine for making combs. No. 1,425,595; Aug. 15.
- Kohls, Janet R. (See Lansing, H. L., and Kohls.)
- Kohn, John A. (See Dore, E. P., and Kohn.)
- Kohn, Koby, New York, N. Y. Safety-razor attachment. No. 1,439,902; Dec. 26.
- Kohn, Leo M., New York, N. Y. Combined ironing and folding machine. No. 1,417,255; May 23.
- Kohn, Samuel. (See Beadle, G. W., and Kohn.)
- Kohn, Samuel, New York, N. Y. Automatic start and stop attachment for phonographs. No. 1,427,479; Aug. 29.
- Kohn, Samuel, assignor, by mesne assignments, to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Automatic stop. No. 1,430,564; Oct. 3.
- Kohn, Sigmund F., New York, N. Y. Smoker's utensil. No. 1,427,303; Aug. 29.
- Kohn, Simon N., Cleveland, Ohio. Butter spreader. No. 1,426,985; Aug. 15.
- Kohn, Walter L., and L. L. Kole, Milwaukee, Wis. Combined vanity and manicure set. No. 1,434,442; Nov. 7.
- Kohnle, Frederick, assignor to The Monarch Tag Company, Dayton, Ohio. Price tag. No. 1,416,665; May 16.
- Kohnle, Frederick, assignor to The Monarch Marking System Company, Dayton, Ohio. Price tag. No. 1,438,043; Dec. 5.
- Kohnle, Frederick, assignor to The Monarch Marking System Company, Dayton, Ohio. Price tag. No. 1,438,044; Dec. 5.
- Kohnstamm, H., & Co. (See Phair, Robert A., assignor.)
- Koizumi, Masutaro, Byron, Wash. Combination cultivator and thinner. No. 1,433,209; Oct. 24.
- Koken, Walter F., St. Louis, Mo. Reclining bar clamp for barbers' chairs. No. 1,425,325; Aug. 8.
- Koken, Walter F., St. Louis, Mo. Jointed reclining bar for adjustable chairs. No. 1,437,060; Nov. 28.
- Kokesh, Charles, Cainesville, Mo. Vehicle brake. No. 1,414,882; May 2.
- Kokomo Steel and Wire Company. (See Porath, Carl A., assignor.)
- Kokoval, Lawrence, Dante, Va. Vehicle chassis and spring. No. 1,417,256; May 23.
- Kokoval, Lawrence, Dante, Va. Automatically-operated railway gate. No. 1,436,964; Nov. 28.
- Kokusho, Yoshio, Philadelphia, Pa. Pasteurizer. No. 1,482,379; Sept. 5.
- Kolaczowski, Lukasz, Helmetta, N. J. Spring-power bicycle. No. 1,409,454; Mar. 14.
- Kolanowski, Jan, Hegewisch, Ill. Toy. No. 1,418,936; June 6.
- Kolb, Joseph F., assignor of one-fourth to himself, one-fourth to J. Sichel, one-fourth to G. Grushlaw, and one-fourth to A. Grundy, Philadelphia, Pa. Means for facilitating the inspection of tubular fabrics. No. 1,433,555; Oct. 31.
- Kolb, Louis M., Philadelphia, Pa. Auto signal.* No. 1,417,388; May 23.
- Kolbe, Frederick H., assignor to Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. No. 1,418,806; June 6.
- Kolbe, Frederick H., and E. R. De Luiz, Detroit, Mich., assignors to Kelvinator Corporation, Wilmington, Del. Thermostat. No. 1,416,722; May 23.
- Kolbe, John L., Crookston, Minn. Dump wagon. No. 1,418,937; June 6.
- Kolbe, John L., Crookston, Minn. Package tie. No. 1,418,938; June 6.
- Kolbe, John L., Wauwatosa, Wis. Knockdown box. No. 1,432,563; Oct. 17.
- Kolbe, Werner, and J. Fritzen, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Axle-recording device for railways. No. 1,421,500; July 4.
- Kolberg, Albert, Sheboygan, Wis. Inflatable life preserver. No. 1,419,272; June 13.
- Kole, Lessing L. (See Kohn, W. L., and Kole.)
- Kolk, Stephen W., North Tonawanda, N. Y. Illuminated moving sign. No. 1,402,075; Jan. 3.
- Kolk, Stephen W., North Tonawanda, N. Y. Changeable illuminated sign. No. 1,410,194; Mar. 21.
- Kolle, Wilhelm, Frankfurt-on-the-Main, and A. Binz, Berlin, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Stable arsenobenzene derivatives and making same. No. 1,431,671; Oct. 10.
- Koller, Charles, et al. (See Pfeiffer, Stephan, assignor.)
- Koller, Joseph P., Chicago, Ill. Toy. No. 1,426,482; Aug. 22.
- Koller, William, White Plains, N. Y. Embroidery frame. No. 1,434,898; Nov. 7.
- Kolling, Charles H., assignor of one-fourth to O. A. Weisenborn and one-fourth to R. Prietz, Jersey City, N. J. Spring motor. No. 1,403,039; Jan. 10.
- Kollman, Bartholomew, Beaver, Okla. Driving mechanism. No. 1,438,313; Dec. 12.
- Kölsch, Reinhard, assignor to Firm of Louis Kuppenheim, Pforzheim, Germany. Machine for the manufacture of ringlet mesh or net work. No. 1,417,257; May 23.
- Kolstad, Ole O., Duluth, Minn., assignor of one-half to D. Irwin, Spooner, Wis. Mail box. No. 1,437,523; Dec. 5.
- Koltunski, Michal, Chicago, Ill. Folding-bed table. No. 1,430,016; Sept. 26.
- Kolvig, Johannes F. W., assignor to The Lake Torpedo Boat Company, Bridgeport, Conn. Hydroplane-operating mechanism for submarine boats. No. 1,428,335; Sept. 5.
- Komarek, Gustav, Chicago, Ill., assignor, by mesne assignments, to Malcolmson Engineering and Machine Corporation, St. Louis, Mo. Briquet machine. No. 1,405,788; Feb. 7.
- Komarek, Gustav, Chicago, Ill., assignor, by mesne assignments, to Malcolmson Engineering and Machine Corporation, St. Louis, Mo. Conveyer paddle. No. 1,411,038; Mar. 28.
- Komarek, Gustav, Chicago, Ill., assignor, by mesne assignments, to Malcolmson Engineering and Machine Corporation, St. Louis, Mo. Fluxer for fuel-briquette material. No. 1,430,384; Sept. 26.
- Komarek, Gustav, Chicago, Ill., assignor, by mesne assignments, to Malcolmson Engineering and Machine Corporation, St. Louis, Mo. Milling machine. No. 1,430,385; Sept. 26.
- Komarek, Gustav, Chicago, Ill., assignor, by mesne assignments, to Malcolmson Engineering and Machine Corporation, St. Louis, Mo. Treating fuel for briquetting purposes. No. 1,430,386; Sept. 26.
- Kondolf, Mathias R., Philadelphia, Pa. Box-pressing machine. No. 1,422,580; July 11.
- Kondolf, Mathias R., Rochester, N. Y., assignor, by mesne assignments, to Fi-Bo-Pak Company, Philadelphia, Pa. Cover-placing apparatus for boxes. No. 1,410,575; Mar. 28.
- Kondolf, Mathias R., Rochester, N. Y., assignor, by mesne assignments, to Fi-Bo-Pak Company, Philadelphia, Pa. Box. No. 1,438,182; Dec. 12.
- Kondracki, Chester, Ellwood City, Pa. Combination shade and curtain hanger. No. 1,416,093; May 16.
- Konicek, George J., Bruce Township, Benton County, Iowa. Automobile curtain support. No. 1,420,710; June 27.
- König, Adolf. (See Krawczyk, S., and König.)
- Konigsberg, Joseph, assignor to L. Konigsberg, New York, N. Y. Diestock. No. 1,420,847; June 27.
- Konigsberg, Joseph, assignor to L. Konigsberg, New York, N. Y. Diestock. No. 1,423,945; July 25.
- Konigsberg, Joseph, assignor to L. Konigsberg, New York, N. Y. Shock absorber. No. 1,423,946; July 25.
- Konigsberg, Joseph, assignor to L. Konigsberg, New York, N. Y. Shock absorber. No. 1,427,480; Aug. 29.
- Konigsberg, Lena. (See Konigsberg, Joseph, assignor.)
- Kontorowitz, Carl, Rochester, N. Y. Drawer attachment for beds. No. 1,423,804; July 25.
- Koon, Raymond, et al. (See Liuni, Salvatore, assignor.)
- Koons, Frank R., and F. L. Fisher, Avilla, Ind. Towel holder. No. 1,431,010; Oct. 3.
- Koons, Isaac B., Bath, Pa. Automobile pedal lock. No. 1,408,357; Feb. 28.
- Koontz, Edward E., et al. (See Dungan, John E., assignor.)
- Koontz, Elmer R., Richards, Mo. Baling machine. No. 1,404,447; Jan. 24.
- Kooperstein, Louis, assignor to West Disinfecting Company, New York, N. Y. Dispensing valve. No. 1,416,037; May 16.
- Kooperstein, Louis, assignor to West Disinfecting Company, New York, N. Y. Dispensing valve. No. 1,431,467; Oct. 10.

Alphabetical list of patentees—Continued.

- Kopcienski, Frank. (See Dolgin, K., and Kopcienski.)
- Kopf, John C., Bellevue Borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Self-lowering jack. No. 1,410,576; Mar. 28.
- Kopf, John C., Bellevue Borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Lifting jack. No. 1,410,578; Mar. 28.
- Kopf, John C., Bellevue Borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Lifting jack. No. 1,410,579; Mar. 28.
- Kopf, John C., Bellevue, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Self-lowering screw jack. No. 1,411,282; Apr. 4.
- Kopf, John C., Bellevue Borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Screw jack. No. 1,413,229; Apr. 18.
- Kopf, John C., Bellevue Borough, and F. H. Schwerin, West View Borough, assignors to The Duff Manufacturing Company, Pittsburgh, Pa. High-speed jack. No. 1,410,577; Mar. 28.
- Kopfstein, Carl A., Cleveland, Ohio. Lighting fixture. No. 1,402,516; Jan. 3.
- Kopke, William E., Dundee, Mich. Mousetrap. No. 1,405,229; Jan. 31.
- Kopp, Henry. (See Betz, Eugene, assignor.)
- Kopp, Hugo. (See Baer, K., and Kopp.)
- Kopp, Philip E., Kansas City, Mo. Change computer. No. 1,410,195; Mar. 21.
- Koppe, Alexander T., assignor to Offset Directoplate Company, Chicago, Ill. Negative-registering device. No. 1,417,749; May 30.
- Koppelman, Harold I. (See Bruder, Edmund, assignor.)
- Koppelman, Morris. (See Mann, L., and Koppelman.)
- Koppelman, Morris, and S. Cooper, Brooklyn, N. Y., assignors of one-half to said Koppelman and one-half to L. Mann, New York, N. Y. Packing for fragile articles. No. 1,429,207; Sept. 12.
- Koppers Company, The. (See Becker, Joseph, assignor.)
- Koppers Company, The. (See Brown, Ralph L., assignor.)
- Koppers Company, The. (See Davis, H. S., and Semenow, assignors.)
- Koppers Company, The. (See Huff, Wilbert J., assignor.)
- Koppers Company, The. (See Ramsburg, Charles J., assignor.)
- Koppers Company, The. (See Sperr, F. W., Jr., and Brown, assignors.)
- Koppers Company, The. (See Sperr, F. W., Jr., and Rose, assignors.)
- Koppers Company, The. (See Thompson, John I., assignor.)
- Koppers Company, The. (See Van Ackeren, Joseph, assignor.)
- Koppersmith, Louis, New York, N. Y. Picture frame. No. 1,415,654; May 9.
- Kopplin, Walter H. (See Kramer, J., Kuehne, and Kopplin.)
- Kops Brothers, Inc. (See Kops, Daniel, assignor.)
- Kops Brothers. (See Kops, Waldemar, assignor.)
- Kops Bros. (See Weber, William G., assignor.)
- Kops, Daniel, assignor to Kops Brothers, Inc., New York, N. Y. Apparel corset. No. 1,432,470; Oct. 17.
- Kops, Waldemar, New York, N. Y., assignor, by mesne assignments, to Nemo Circlet Company Inc. Brassière. No. 1,415,655; May 9.
- Kops, Waldemar, New York, N. Y., assignor, by mesne assignments, to Nemo Circlet Company, Inc. Brassière. No. 1,434,249; Oct. 31.
- Kops, Waldemar, assignor to Kops Brothers, New York, N. Y. Apparel garment. No. 1,431,744; Oct. 10.
- Korb, Frederick W., Cleveland, Iowa. Bar stand. No. 1,437,596; Dec. 5.
- Korée, Jenn U., and A. M. Malluk, assignors to International Patent Investment Corporation, New York, N. Y. Vehicle wheel. No. 1,428,243; Sept. 5.
- Koresban Unity, The. (See McCready, William F., assignor.)
- Koressios, Theodore N., deceased. (See Coressey, Theodore.)
- Korittke, Gustav, Long Island City, N. Y. Sanitary container. No. 1,423,336; July 18.
- Kormann, Frederick A., New York, N. Y., assignor, by mesne assignments, to United Refineries Company. Petroleum reduction. (Reissue.) No. 15,337; Apr. 18.
- Kornas, Joseph, Linden, N. J., assignor to Feldman Machine Works, Inc. Sewing machine. No. 1,435,929; Nov. 21.
- Kornfeld, Adrien, assignor to Firm J. Lambercier & Co., Geneva, Switzerland. Incandescent lamp for liquid fuels. No. 1,438,314; Dec. 12.
- Kornitz, Ewald E. (See Bechstein, C. A., and Kornitz.)
- Kornsweet, Samuel A., Los Angeles, Calif. Sanitary case. No. 1,429,082; Sept. 12.
- Koronski, André, Narberth, Pa. Computing machine. No. 1,417,924; May 30.
- Koropp, Leopold, and V. F. Bergman, Chicago, Ill. Decorative plant product. No. 1,412,008; Apr. 4.
- Korpan, Joseph. (See Fedorow, P., and Korpan.)
- Korsett, Johannes, Zittau, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Rendering animal and vegetable fibers active. No. 1,426,298; Aug. 15.
- Korsmeyer, Ernest H., Kansas City, Mo. Motor plow. No. 1,412,308; Apr. 11.
- Kortenhoeven, Peter, Chicago, Ill., assignor, by mesne assignments, to Equipment Devices Company. Feed trough. No. 1,425,205; Aug. 8.
- Kortkamp, William, Hillsboro, Ill. Mine-door-operating mechanism. No. 1,413,335; Apr. 18.
- Kosakoff, William, et al. (See Berzon, L., and Brezin, assignors.)
- Kosakoff, William, et al. (See Brezin, Joseph, assignor.)
- Kositzky, Carl R., Bismarck, N. Dak. Covered folding frame. No. 1,422,450; July 11.
- Koski, Matt W., Cosmopolis, Wash. Recording speedometer. No. 1,422,990; July 18.
- Kosmalski, Olaf B., Taunton, Minn. Cultivator shield. No. 1,414,191; Apr. 25.
- Kosman, John, and M. Grzesik, Brooklyn, N. Y. Liquid-dispensing pump. No. 1,419,572; June 13.
- Kosman, John, and M. Grzesik, Brooklyn, N. Y. Horse-shoe. No. 1,436,810; Nov. 28.
- Kostakis, George J., Detroit, Mich. Fruit picker. No. 1,435,534; Nov. 14.
- Koster, Charles E., Chicago, Ill. Doley for separating Fordson tractors. No. 1,435,860; Nov. 14.
- Kostowski, Edward C. (See Kozlosky, T., and Kostowski.)
- Kosuboski, Benjamin, assignor of one-half to M. Kiley, Clintonville, Wis. Differential gearing. No. 1,409,347; Mar. 14.
- Köszegi, Charles, Budapest, Hungary. Cultivator for treating the soil. No. 1,414,364; May 2.
- Koszyczarek, Anastazy. (See Embanks, Fred, assignor.)
- Kotarski, Peter S., Edwadsville, Pa. Punctureproof pneumatic tire. No. 1,409,382; Mar. 14.
- Kotelmach, Tomasz, Petrofka, Saskatchewan, assignor of one-third to M. Hnatuk, Krydror, Saskatchewan, Canada. Cow holder. No. 1,435,399; Nov. 14.
- Kothe, Charles A., Galion, Ohio. Low-water alarm. No. 1,422,870; July 18.
- Kothringer, Joseph, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Slide carrier for projection apparatus. No. 1,409,186; Mar. 14.
- Kothny, Gottfrank L. E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Refrigerating machine. No. 1,418,002; May 30.
- Koterman, Eugene, Marion, assignor to International Printing Company, Indianapolis, Ind. Lock for paper boxes. No. 1,424,830; Aug. 8.
- Kottmeyer, Kilhanus, Milwaukee, Wis. Banjo attachment. No. 1,430,086; Sept. 26.
- Kottmeyer, Louis E., Rhineland, Mo. Spark plug. No. 1,415,248; May 9.
- Kotun, Michael, New Geneva, Pa. Adjustable partition wall. No. 1,421,089; June 27.
- Kotz, Samuel, Washington, D. C. Signal light. No. 1,431,821; Oct. 10.
- Kouba, Frank B., Grafton, N. Dak. Sleigh. No. 1,413,738; Apr. 25.
- Koukal, Joseph F., Bruno, Nebr. Gopher trap. No. 1,404,032; Jan. 17.
- Koukol, Joe J., Cuba, Kans. Emery-wheel stand. No. 1,440,225; Dec. 26.
- Koukos, John. (See Vafades, G., and Koukos.)
- Kouns, Wesley, Salina, Kans. Hayrake. No. 1,407,663; Feb. 21.
- Kouns, Wesley, Salina, Kans. Wagon-body construction. No. 1,429,208; Sept. 12.
- Koup, Frank, Buffalo, N. Y. Clothespin. No. 1,413,035; Apr. 18.
- Kourek, Joe, Ward, S. D. Boiler. No. 1,404,033; Jan. 17.
- Kovacevich, Stevan, Blair Station, Pa. Pickhead. No. 1,411,919; Apr. 4.
- Kovach, Joseph W., and T. Markovich, Aurora, Minn. Lock and key. No. 1,426,573; Aug. 22.
- Kovach, Mathias, Ely, Minn. Automobile fender. No. 1,402,502; Jan. 3.
- Kovács, Theodor, Berlin, Germany. Fountain pen. No. 1,426,200; Aug. 15.
- Kovaleff, Michael, New York, N. Y., assignor, by mesne assignments, to The Marlin Firearms Corporation, New Haven, Conn. Attachment for machine guns. No. 1,412,287; Apr. 11.
- Kovar, Frank T., and J. F. Jirka, Cleveland, Ohio. Safety switch. No. 1,430,087; Sept. 26.
- Kovar, Joe, Coupland, Tex. Incubator tray. No. 1,412,659; Apr. 11.
- Kovar, Joseph J. (See Kubista, C. L., and Kovar.)
- Kovar, Joseph J., Owatonna, Minn. Cultivator. No. 1,418,807; June 6.
- Kovar, Joseph J., Owatonna, Minn. Spring tooth for ground-working implements. No. 1,418,808; June 6.
- Kovatch, Frank, Omaha, Nebr. Combined coop and trap. No. 1,404,153; Jan. 17.
- Kover, Arthur E. (See Doswell, H. H., and Kover.)
- Kowalczuk, Rose, Buffalo, N. Y. Laundering tub. No. 1,414,138; Apr. 25.
- Kowall, Julius, Newark, N. J. Cuff link. No. 1,427,959; Sept. 5.
- Kowalsky, August J., Racine County, Wis. Ash pan. No. 1,413,739; Apr. 25.
- Kowastch, Ambrose, Berlin-Charlottenburg, Germany. Fuse for blasting with a liquefied gas and producing the same. No. 1,424,487; Aug. 1.
- Kowastch, Ambrose, Berlin-Charlottenburg, Germany. Cartridge for blasting with liquid air and producing the same. No. 1,424,488; Aug. 1.

- Kozlosky, Theodor, and E. C. Kostowski, Toledo, Ohio. Rail joint. No. 1,404,976; Jan. 31.
- Kozlosky, Theodore, assignor of one-third to A. Ostachowicz and S. Babka, Toledo, Ohio. Milk-bottle cap. No. 1,413,592; Apr. 25.
- Krabec, Frank C., Chicago, Ill. Drawing instrument. No. 1,440,302; Dec. 26.
- Kraber, George L., Lakewood, assignor, by mesne assignments, to The Cleveland Industrial Development Company, Cleveland, Ohio. Portable planer or like tool. No. 1,412,209; Apr. 11.
- Krabill, David. (See Krabill, John, assignor.)
- Krabill, John, Canton, assignor to D. Krabill, Massillon, Ohio. Traction wheel. No. 1,403,790; Jan. 17.
- Kracht, John. (See Hickey, J. L. and Kracht.)
- Kraer, Oliver A., Bartlesville, Okla. Tubing oil saver. No. 1,433,082; Oct. 24.
- Kraemer, Frank, Milwaukee, Wis. Spark plug. No. 1,427,481; Aug. 29.
- Krauter, Arthur A., South Orange, N. J. Head for golf clubs. No. 1,413,854; Apr. 25.
- Krafft, Emil, Baltimore, Md. Knife. No. 1,416,723; May 23.
- Kraft, Edward L., assignor to Atlas Truck Corporation, York, Pa. Trolley pole for trackless trolley cars. No. 1,411,849; Apr. 4.
- Kraft, Henry P. (See Schweinert, M. C. and Kraft.)
- Kraft, Henry P., Ridgewood, N. J. Valve construction. No. 1,403,965; Jan. 17.
- Kraft, Henry P., Ridgewood, N. J. Making dust caps for tire valves. No. 1,405,042; Jan. 31.
- Kraft, Henry P., Ridgewood, N. J. Tire-deflecting machine. No. 1,408,099; Feb. 28.
- Kraft, Henry P., Ridgewood, N. J. Valve-repair tool. No. 1,414,819; May 2.
- Kraft, Henry P., Ridgewood, N. J. Tire valve or the like. No. 1,432,869; Oct. 24.
- Kraft, Henry P., Ridgewood, N. J. Gauge for pneumatic tires or the like. No. 1,433,517; Oct. 24.
- Kraft, Henry P., Ridgewood, N. J. Pump coupling. No. 1,433,518; Oct. 24.
- Kraft, Henry P., Ridgewood, N. J. Box. No. 1,435,312; Nov. 14.
- Kraft, Henry P., Ridgewood, N. J. Valve-repair tool. No. 1,435,904; Nov. 14.
- Kraft, Henry P., Ridgewood, and M. C. Schweinert, West Hoboken, N. J. Gauge. No. 1,421,501; July 4.
- Kraft, Henry P., Ridgewood, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Tire-deflating machine. No. 1,405,230; Jan. 31.
- Kraft, Henry P., Ridgewood, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Ethylchloride tube. No. 1,431,236; Oct. 10.
- Kraft, Herman T., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Controlling system for fluid craft. No. 1,412,807; Apr. 11.
- Kraft, Herman T., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Reinforced rubber propeller. No. 1,419,061; June 6.
- Kraive, William, Fall River, Mass. Rear construction for automobile trucks. No. 1,404,977; Jan. 31.
- Kraive, William, Oakham, Mass. Exhaust manifold. No. 1,431,120; Oct. 3.
- Kraive, William, Oakham, Mass. Intake manifold. No. 1,431,121; Oct. 3.
- Krag, Erik L., assignor of one-half to F. K. Krag, Chicago, Ill. Binder. No. 1,439,367; Dec. 19.
- Krag, Franz K. (See Krag, Erik L., assignor.)
- Krahe, Walter F., Brooklyn, N. Y. Amusement apparatus. No. 1,421,960; July 4.
- Krakauer, Samuel. (See Marcus, S. S. and Krakauer.)
- Kraker, Adeline M. (See Lotz, Rudolph W., assignor.)
- Kraker, Joseph S., assignor of one-half to T. F. McGuinn, Brooklyn, N. Y. Controlling device for gas jets. No. 1,433,462; Oct. 24.
- Krall, Joseph F., Chicago, Ill. Surface-finishing implement. No. 1,430,387; Sept. 26.
- Kralund, John, Brooklyn, assignor to Doehler Die Casting Company, Brooklyn, N. Y. Die-casting apparatus. No. 1,416,476; May 16.
- Kralund, John, Brooklyn, assignor to Doehler Die Casting Company, Brooklyn, N. Y. Weighing apparatus. No. 1,416,477; May 16.
- Kralund, John, assignor to Doehler Die Casting Company, Brooklyn, N. Y. Turntable for talking machines. No. 1,438,765; Dec. 12.
- Kramer, Andrew A. (See Livengood, Winfield S., assignor.)
- Kramer, Andrew A., Kansas City, Mo. Tank construction. No. 1,422,107; July 11.
- Kramer, Andrew A., Kansas City, Mo. Convertible vehicle body. No. 1,425,596; Aug. 15.
- Kramer, Fred H., Denver, Colo. Attachment for barber chairs. No. 1,411,572; Apr. 4.
- Kramer, Fred M., San Francisco, Calif. Course corrector. No. 1,405,598; Feb. 7.
- Kramer, Fritz. (See Bauer, G. and Kramer.)
- Kramer, Fritz, Blankenese-Dockenhuden, near Hamburg, Germany. Apparatus for maintaining pressure in fuel-oil tanks of submarines. No. 1,412,357; Apr. 11.
- Kramer, George, Brooklyn, N. Y. License-plate holder and illuminator therefor. No. 1,411,920; Apr. 4.
- Kramer, John, assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Bootlast. No. 1,409,113; Mar. 7.
- Kramer, Julius. (See Kuehne, F. O., Jr., and Kramer.)
- Kramer, Julius, and Bert D. Wolf, assignors to Pullman Couch Company, Chicago, Ill. Drier. No. 1,439,173; Dec. 19.
- Kramer, Julius, and P. J. Greaves, assignors to Pullman Davenport and Upholstered Furniture Company, Chicago, Ill. Transfer truck. No. 1,436,660; Nov. 28.
- Kramer, Julius, F. O. Kuehne, Jr., and C. T. Metzger, assignors to Pullman Davenport and Upholstered Furniture Company, Chicago, Ill. Upholstering press. No. 1,412,876; Apr. 18.
- Kramer, Julius, F. O. Kuehne, Jr., and W. H. Kopplin, assignors to Pullman Davenport and Upholstered Furniture Company, Chicago, Ill. Power truck. No. 1,423,947; July 25.
- Kramer, Louis A., Chicago, Ill. Carcass-dehairing machine. No. 1,415,580; May 9.
- Kramer, Louis A., Chicago, Ill. Hog hoist. No. 1,428,336; Sept. 5.
- Kramer, Samuel R., assignor to Eastern Pin Ticket and Tag Co. Inc., Perkasio, Pa. Label cabinet. No. 1,432,870; Oct. 24.
- Krannert, Victor L., Urbana, Ill., assignor to Saf-Pak Manufacturing Company, Anderson, Ind. Shipping case. No. 1,417,533; May 30.
- Krantz, Carl A. (See Krantz, Gust E. and C. A.)
- Krantz, Edward. (See Schrum, W. T., and Krantz.)
- Krantz, Frank O. (See Swick, C. P., and Krantz.)
- Krantz, Gust E. and C. A., Chicago, Ill. Variable-speed gearing. No. 1,429,439; Sept. 19.
- Krantz, Gustaf E. and C. A., Chicago, Ill. Mechanical movement. No. 1,413,036; Apr. 18.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Safety panel box. No. 1,420,111; June 20.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Safety panel box. No. 1,428,849; Sept. 12.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Switchboard mechanism. No. 1,432,871; Oct. 24.
- Krantz Manufacturing Company. (See Krantz, Hubert F., assignor.)
- Kranz, Harry W. (See Klaus, F. R., and Kranz.)
- Kranz, Harry W., and J. Lukes, assignors to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Clamp for welding-machine attachments. No. 1,416,839; May 23.
- Kränzelin, Georg, Sindlingen, near Höchst-on-Main, and M. Corell, Höchst-on-Main, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-Main, Germany. Esters of dioxydiethyl sulphide and making same. No. 1,422,869; July 18.
- Krase, Norman W., Clarendon, Va. Manufacture of urea from ammonia and carbon dioxide. No. 1,423,953; Sept. 26.
- Krasnovsky, George, Pensacola, Fla. Wooden shoe sole. No. 1,433,210; Oct. 24.
- Kratz, Elizabeth A., Johnstown, N. Y. Convertible seat for children. No. 1,428,039; Sept. 5.
- Kratz, Franz, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Electric-motor-starting device for internal-combustion engines. No. 1,414,653; May 2.
- Kratz, Franz, H. Starker, and O. Selling, Stuttgart, Germany, assignors to Firm Robert Bosch Aktiengesellschaft at Stuttgart. Ignition apparatus for internal-combustion engines. No. 1,415,581; May 9.
- Kratz, George D., Akron, assignor to The Falls Rubber Company, Cuyahoga Falls, Ohio. Tire and making same. No. 1,428,040; Sept. 5.
- Kratz, George D., Akron, assignor to The Falls Rubber Company, Cuyahoga Falls, Ohio. Swimming tube and valve cap therefor. No. 1,431,011; Oct. 3.
- Krause, Albert F., assignor of one-third to E. H. Krause and one-third to W. M. Krause, Spokane, Wash. Internal-combustion engine. No. 1,410,019; Mar. 21.
- Krause, Arthur J., Cleveland, Ohio. Internal-combustion engine. No. 1,436,177; Nov. 21.
- Krause, Emil H., et al. (See Krause, Albert F., assignor.)
- Krause, Lou, New York, N. Y., assignor to Slyt Edge Company, Inc. Fringed hat. No. 1,428,891; Sept. 12.
- Krause, Norman R. (See MacGregor, W. F., and Krause.)
- Krause, Norman R., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Self feeder for thrashing machines. No. 1,412,559; Apr. 11.
- Krause, Norman R., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Speed governor for self feeders. No. 1,425,782; Aug. 15.
- Krause, Wallace M., et al. (See Krause, Albert F., assignor.)
- Krause, William E., assignor to J. F. Haasch, Milwaukee, Wis. Well-reaming apparatus. No. 1,402,503; Jan. 3.
- Krause, William E., assignor to J. F. Haasch, Milwaukee, Wis. Cleaning device for oil wells. No. 1,402,504; Jan. 3.
- Krause, William P., assignor to Hanna Engineering Works, Chicago, Ill. Riveter. No. 1,404,126; Jan. 17.

Alphabetical list of patentees—Continued.

- Krause, William P., assignor to Hanna Engineering Works, Chicago, Ill. Trolley. No. 1,424,361; Aug. 1.
- Krauska, Thomas, assignor to Alastic Tire Cushion Company, St. Louis, Mo. Tire-setting machine. No. 1,416,094; May 16.
- Krauskopf, Nathan, Co. (See Baillie, Amelia, assignor.)
- Kraut, Max, Los Angeles, Calif. Liquid-feeding apparatus. No. 1,416,840; May 23.
- Krauth, Felix T. H. D., New York, N. Y. Game apparatus. No. 1,427,482; Aug. 29.
- Krawcynski, Andrew, et al. (See Zakrzewski, Henry, assignor.)
- Krawczyk, Stanley, and A. König, Plainfield, N. J. Loom shuttle. No. 1,416,095; May 16.
- Krebitz, Peter, Munich, Germany. Removal of soap contained in the sludge of carbonate of lime. No. 1,430,017; Sept. 26.
- Krebs, Emil G., Tillamook, Oreg. Wheel-support attachment for drag saws. No. 1,428,506; Sept. 5.
- Krebs, George A., Dayton, Ohio. Thermostat control. No. 1,436,899; Nov. 21.
- Krebs, George F., Wichita, Kans. Direction signal for vehicles. No. 1,402,937; Jan. 10.
- Krebs, Henry J., Dayton, Ohio. Indicator. No. 1,424,310; Aug. 1.
- Krecker, William. (See Reller, J. E., and Krecker.)
- Kreefeld, Georges, Brussels, Belgium. Searchlight. No. 1,414,985; May 2.
- Kreil, Victor, Two Rivers, Wis. Shock absorber. No. 1,408,892; Mar. 7.
- Kreil, Victor, Eagle River, Wis. Automobile bumper. No. 1,416,358; May 16.
- Kreher, Bernhard, Dresden, Germany. Manufacturing tubular bodies of corrugated pasteboard. No. 1,426,879; Aug. 22.
- Kreimik, Albert, Cleveland, Ohio. Air pump. No. 1,414,573; May 2.
- Kreidler, Milton E., Bethlehem, Pa. Shoe last. No. 1,410,324; Mar. 21.
- Kreiling, Henry H., deceased; L. Kreiling, administratrix, Chicago, Ill. Ink distributor. No. 1,429,148; Sept. 12.
- Kreiling, Louise, administratrix. (See Kreiling, Henry H.)
- Kreiss, Albert L., Jacksonville, Fla. Phosphate fertilizer containing potassium or sodium and producing the same. No. 1,413,168; Apr. 18.
- Kreitlein, George F. (See Henricks, Garrett W., assignor.)
- Krejci, Laddie A., Chicago, Ill. Cylinder-boring device. No. 1,438,316; Dec. 12.
- Krell, Charles D., Jacksonville, Fla. Pulling device. No. 1,426,483; Aug. 22.
- Krementz, Frank, Company. (See Gauer, William, assignor.)
- Kremer, Franklin W., Rutherford, N. J. Combined pneumatic and solid tire. No. 1,407,070; Feb. 21.
- Krems, Otto, Innsbruck, Austria. Interest computer. No. 1,426,484; Aug. 22.
- Krenke, Otto, assignor to E. L. Powers, Port Huron, Mich. Cream separator. No. 1,426,880; Aug. 22.
- Krentler, Walter A., assignor to Krentler-Arnold Hinge Last Company, Detroit, Mich. Last. No. 1,410,477; Mar. 21.
- Krentler-Arnold Hinge Last Company. (See Krentler, Walter A., assignor.)
- Kress, Jacob F. (See Selah, Howard A., assignor.)
- Kress, Wilhelmine, Pittsburgh, Pa. Curtain rod. No. 1,419,389; June 13.
- Kretschmer, Mathias, Oriska, N. Dak. Tractor lug. No. 1,420,712; June 27.
- Kretschmar, Karl A., Palmer, Mass. Aeronautical compass. No. 1,416,841; May 23.
- Kretschmer, Walter C., Chicago, Ill. Spark plug. No. 1,433,211; Oct. 24.
- Kreiter, Irvin D., et al. (See Boe, Edd, assignor.)
- Kreusler, John L., and F. R. Ferguson, Cleveland, Ohio. Collet chuck. No. 1,407,760; Feb. 28.
- Kreutzberg, Ernst, and F. Moulton, Marine, Ill. Furnace-casing top. No. 1,406,875; Feb. 14.
- Kreutzer, Theodor E. (See Hoffman, H., and Kreutzer.)
- Kreuzer, William C., assignor to The Will & Baumer Company, Syracuse, N. Y. Candle wick. No. 1,420,322; June 20.
- Kreuzkamp, August J., Chicago, Ill. assignor to The Englander Spring Bed Company, Brooklyn, N. Y. Sliding couch or bed. No. 1,413,593; Apr. 25.
- Kreuzkamp, August J., Chicago, Ill. assignor to Englander Spring Bed Company, Brooklyn, N. Y. Bed. No. 1,413,594; Apr. 25.
- Kreuzkamp, August J., Chicago, Ill. assignor to The Englander Spring Bed Company, Brooklyn, N. Y. Sliding convertible bed. No. 1,413,595; Apr. 25.
- Kreuzkamp, August J., Chicago, Ill. assignor to Englander Spring Bed Company, Brooklyn, N. Y. Bed. No. 1,418,382; June 6.
- Kreyer, Karl, Düsseldorf, Germany. Rolling machine. No. 1,408,608; Mar. 7.
- Krick, Arthur E., assignor to The Humidity Control Company, Indianapolis, Ind. Calculating balance. No. 1,429,907; Sept. 19.
- Krick, George. (See Hall, Charles R., assignor.)
- Kricker, George E., assignor to The Standard Parts Company, Cleveland, Ohio. Rim. No. 1,408,893; Mar. 7.
- Kricker, John J. (See Dinsen, T., and Kricker.)
- Krider, George E., assignor to McLanahan Stone Machine Co., Hollidaysburg, Pa. Shock-absorbing device for roll crushers. No. 1,409,869; Mar. 14.
- Krider, George E., Duncannon, assignor to McLanahan Stone Machine Co., Hollidaysburg, Pa. Stone crusher. No. 1,417,389; May 23.
- Krider, George E., assignor to McLanahan Stone Machine Co., Hollidaysburg, Pa. Crusher. No. 1,436,347; Nov. 21.
- Krider, J. Albert, et al. (See Bartlett, W. D., and Marquis, assignors.)
- Krieger, A. Edward, et al, trustees. (See McArthur, Robert C., assignor.)
- Krieger, George F., Wisconsin Rapids, Wis. Cutting tool. No. 1,408,358; Feb. 28.
- Krieghoff, Anton (now by judicial change of name A. Warfield), Chelsea, assignor, by mesne assignments, to C. H. Nunn, Boston, Mass. Piano. No. 1,433,556; Oct. 31.
- Kries, Lawrence F., Baltimore, Md., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric switch. No. 1,404,865; Jan. 31.
- Kries, Lawrence F., Baltimore, Md., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Double-throw switch. No. 1,414,421; May 2.
- Kriescher, Alwin, Green Bay, Wis. Hose coupling. No. 1,436,317; Nov. 21.
- Kriesel, Gustave F., assignor, by mesne assignments, to E. V. Safstrom, Minneapolis, Minn. Boring and milling machine. No. 1,415,878; May 16.
- Kriesel, Gustave F., assignor, by mesne assignments, to E. V. Safstrom, Minneapolis, Minn. Attachment for boring and milling machines. No. 1,424,489; Aug. 1.
- Krieter, William J., and E. L. Feth, assignor to D. A. Matot, Chicago, Ill. Refrigerator. No. 1,404,302; Jan. 24.
- Krigel, Hershon T., New York, N. Y. Fixing color markings on thermometer stems. No. 1,405,231; Jan. 31.
- Kring, Olof O. (See Stålhan, O., and Kring.)
- Krippendorf, Calculator Company. (See Krippendorf, Paul F. W. C., assignor.)
- Krippendorf, Paul F. W. C., Lynn, Mass., assignor to Krippendorf Calculator Company, Portland, Me. Card for use in computing stock. No. 1,439,004; Dec. 19.
- Kristianssands, Nikkeiraffineringsverke. (See Hybinette, Noak V., assignor.)
- Kristofek, Frank J., assignor to Brown & Bigelow, St. Paul, Minn. Thimble-decorating device. No. 1,414,820; May 2.
- Kritz, Frank, Detroit, Mich. Machine and method for forming and bending tubes. No. 1,420,042; June 20.
- Krivacs, Joseph A., Mount Vernon, N. Y. Center gauge. No. 1,410,196; Mar. 21.
- Krivacs, Joseph A., Mount Vernon, N. Y. Extensible bookrack. No. 1,415,582; May 9.
- Kroedel, Robert, assignor to Eastman Kodak Company, Rochester, N. Y. Folding camera. No. 1,435,646; Nov. 14.
- Kroeger, Hattie A., Walcott, Iowa. Cabinet. No. 1,435,861; Nov. 14.
- Kroegher, John H., administrator. (See Kroegher, Wilhelm C.)
- Kroegher, Wilhelm C., deceased, Bellevue, Pa., J. H. Kroegher, administrator. Vehicle wheel. No. 1,418,656; June 6.
- Kroehle, Oscar, Lakewood, Ohio. Signal lens. No. 1,432,872; Oct. 24.
- Kroehle, Oscar, Lakewood, Ohio. Signal lens. No. 1,432,873; Oct. 24.
- Kroecker, Jacob M., Weatherford, Okla. Tractor guide. No. 1,439,558; Dec. 19.
- Kroff, Leonard D., Sterling, Ill. Milk-can attachment. No. 1,436,988; Nov. 28.
- Kroger, Fred H., Brooklyn, N. Y., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Control of electric machines. No. 1,403,172; Jan. 10.
- Krogh, C. A., et al, legatees. (See Krogh, Ferdinand.)
- Krogh, Ferdinand W., deceased; M. L. Krogh, F. J. Clarke, C. A. Krogh, and O. Poulsen, being legatees by court order of distribution, assignors to Krogh Pump and Machinery Company, San Francisco, Calif. Shaft-lubricating system. No. 1,415,367; May 9.
- Krogh, Ferdinand W., deceased; M. L. Krogh, F. J. Clarke, C. A. Krogh, and O. Poulsen, legatees by court order of distribution of the estate of said Ferdinand W. Krogh, deceased, assignors to Krogh Pump and Machinery Company, San Francisco, Calif. Lubricating system for deep-well pumps. No. 1,424,362; Aug. 1.
- Krogh, Mary L., et al, legatees. (See Krogh, Ferdinand W.)
- Krogh Pump and Machinery Company. (See Krogh, Ferdinand W., assignor.)
- Kroh, Edward A., Stella, Nebr. Safety chain tightener and clamp. No. 1,438,766; Dec. 12.
- Kroher, Ludwig, Munich, Germany. Toy riding animal. No. 1,440,088; Dec. 26.
- Krohn, John, Chicago, Ill. Differential gearing. No. 1,413,855; Apr. 25.
- Krohn, John, Chicago, Ill. Differential gear. No. 1,413,856; Apr. 25.
- Krohn, Julius J. (See Warren, M. C., and Krohn.)
- Krohn, William, Buffalo, N. Y. Powder puff. No. 1,424,649; Aug. 1.

- Krokavetz, Martin, Cleveland, Ohio. Electric clip. No. 1,432,343; Oct. 17.
- Kroll, Charles, Needham, assignor, by mesne assignments, to The Kroll Company, Boston, Mass. Overallis. No. 1,411,666; Apr. 4.
- Kroll Company, The. (See Kroll, Charles, assignor.)
- Kroll, Guillaume J., Luxemburg, Luxemburg. Separation and recovery of metals from metal alloys. No. 1,428,041; Sept. 5.
- Kroll, William H., Bowler, Wis. Signal for automobiles. No. 1,428,104; Sept. 5.
- Krom, Harry C. (See Lockman, C. D., and Postel, assignors.)
- Kromm, Georg, Stuttgart, Germany. Typewriting machine. No. 1,416,842; May 23.
- Kronable, John B., assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo. Grinding machine. No. 1,419,740; June 13.
- Kronenberg, Rudolf, Ohligs, Germany. Air-cooled internal-combustion engine. No. 1,422,719; July 11.
- Kronert, Max R., Chicago, Ill. Combination tool. No. 1,406,262; Feb. 14.
- Kronewitter, Carl H., Indianapolis, Ind. Vehicle-spring lubricator. No. 1,418,580; June 6.
- Kronmiller, Carl G., assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Timer for valves. No. 1,434,827; Nov. 7.
- Kronthal, Louis, New York, N. Y. Cap. No. 1,404,616; Jan. 24.
- Kroona, Andrew W., Minneapolis, Minn. Clothesline holder. No. 1,411,850; Apr. 4.
- Kropf, Walter R., assignor of one-half to A. G. Siebert, San Francisco, Calif. Corner brace. No. 1,422,770; July 11.
- Kross, Edwin F., Horicon, Wis. Coin-controlled liquid dispenser. No. 1,428,244; Sept. 5.
- Krost, John F., and B. J. Steffey, Mankato, Minn. Clock-controlled lighting circuits. No. 1,439,523; Dec. 19.
- Krotz, Alvaro S., Janesville, Wis. Tractor. No. 1,431,311; Oct. 10.
- Krotz, Alvaro S., Janesville, Wis., assignor to General Motors Corporation, Detroit, Mich. Tandem disk harrow. No. 1,409,218; Mar. 14.
- Krotz, Alvaro S., Janesville, Wis., assignor to General Motors Corporation, Detroit, Mich. Lifting device for plows. No. 1,409,219; Mar. 14.
- Krotz, Alvaro S., assignor to Janesville Machine Company, Janesville, Wis. Lister plow. No. 1,413,281; Apr. 18.
- Krotz, Alvaro S., assignor to The Janesville Machine Company, Janesville, Wis. Cultivator. No. 1,413,336; Apr. 18.
- Krotz, Alvaro S., Janesville, Wis., assignor to General Motors Corporation, Detroit, Mich. Combined intake and exhaust manifold. No. 1,434,353; Oct. 31.
- Krotz, Alvaro S., Janesville, Wis., assignor to General Motors Corporation, Detroit, Mich. Tractor wheel. No. 1,437,849; Dec. 5.
- Kroupa, Lillian, Berwyn, Ill. Attachment for beds. No. 1,404,448; Jan. 24.
- Krowicki, Antoni W., San Francisco, Calif. Jar closure. No. 1,411,171; Mar. 28.
- Kruck, Walter W. A., Camden, N. J. Vent cleaner for piano players. No. 1,438,923; Dec. 12.
- Kruckewitt, John, assignor of one-half to Donahoe's, Incorporated, Pittsburgh, Pa. Cafeteria table. No. 1,408,359; Feb. 28.
- Krueger, Adolph E., Milwaukee, Wis. Method and apparatus for assembling cabinets and the like. No. 1,404,978; Jan. 31.
- Krueger, Arthur H., Wausau, Wis. Window. No. 1,401,989; Jan. 3.
- Krueger, Edwin W., assignor to Union Wire Mattress Company, Chicago, Ill. Crib. No. 1,432,190; Oct. 17.
- Kruesheld, Henry, assignor to The Perfection Electric Products Co., New Washington, Ohio. Electric heating unit. No. 1,404,979; Jan. 31.
- Kruesheld, Henry, assignor to The Perfection Electric Products Co., New Washington, Ohio. Electric cooking utensil. No. 1,405,043; Jan. 31.
- Kruesheld, Henry, assignor to The Perfection Electric Products Co., New Washington, Ohio. Electric heater. No. 1,417,073; May 23.
- Kruesheld, Henry, assignor to The Perfection Electric Products Co., New Washington, Ohio. Electrically-heated cooking utensil. No. 1,417,074; May 23.
- Kruesheld, Henry, Mansfield, Ohio, assignor to Westinghouse Electric Products Company. Waffle iron. No. 1,438,602; Dec. 12.
- Krug, Louis R. (See Fasoldt, Ernest C., assignor.)
- Krug, Ludwig, New York, N. Y. Revolution counter. No. 1,425,982; Aug. 15.
- Krug, William, Detroit, Mich. Wheel-rim jack. No. 1,411,667; Apr. 4.
- Krug, William H., Fond du Lac, Wis. Turntable. No. 1,408,747; Mar. 7.
- Krug, William H., Oshkosh, Wis. Antiskid device. No. 1,421,786; Apr. 11.
- Kruger, Arthur H., Tulsa, Okla. Well-tool grab. No. 1,428,784; Sept. 12.
- Kruger, Fred W., Little Cedar, Iowa. Detachable top and seat for school wagons. No. 1,409,555; Mar. 14.
- Kruger, Paul. (See Finckh, F., and Kruger.)
- Kruger, Paul, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Locking mechanism for the doors of self-discharging receptacles. No. 1,423,120; July 18.
- Kruger, Paul, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Dumping car. No. 1,423,121; July 18.
- Kruger, Paul, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Coupling. No. 1,428,596; Sept. 12.
- Krull, August C., Grand Rapids, assignor, by mesne assignments, to Machinery Company of America, Big Rapids, Mich. Reversing control for grinding machines. No. 1,427,756; Aug. 29.
- Krum, Charles L., and H. L. Krum, assignors to Morkrum Company, Chicago, Ill. Transmitter for selective or printing telegraphs. No. 1,419,677; June 13.
- Krum, Gustav, Duisburg-Beeck, Germany. Time recorder. No. 1,423,805; July 25.
- Krum, Gustav, Duisburg-Beeck, Germany. Car coupling. No. 1,426,652; Aug. 22.
- Krum, Howard L. (See Krum, Charles L. and H. L.)
- Krum, Howard L., assignor to Morkrum Company, Chicago, Ill. Telegraph system and apparatus. No. 1,434,290; Oct. 31.
- Krump, Nic. (See Lake, Claude C., assignor.)
- Krump, Nic, Chicago, Ill. Suspended two-rail track. No. 1,420,112; June 20.
- Krump, Nic, Chicago, Ill. Making shears for metal plates. No. 1,435,710; Nov. 14.
- Krumsick, William H., Spokane, Wash. Wrench. No. 1,417,390; May 23.
- Krupa, Nikolas, Reading, Pa. Potato gatherer. No. 1,411,361; Apr. 4.
- Krupnick, Ira. (See Nott, John A., assignor.)
- Krupp, Leo A., assignor of one-half to The Buckeye Traction Ditcher Company, Findlay, Ohio. Apron wheel. No. 1,419,390; June 13.
- Krusberger, Bartlett, Meriden, Conn. Permutation switch lock. No. 1,414,192; Apr. 25.
- Kruse, Edward H., Fort Wayne, Ind. Switch box. No. 1,435,711; Nov. 14.
- Kruse, Ferdinand, Port Richmond, N. Y. Meat press and filler. No. 1,417,610; May 30.
- Kruse, Frode A., Tyler, Minn. Barn-cleaning implement. No. 1,426,653; Aug. 22.
- Kruse, Frode A., Tyler, Minn. Barn-cleaning mechanism. No. 1,426,654; Aug. 22.
- Kruse, John F., Indianapolis, Ind. Bath-cabinet vaporizer. No. 1,421,502; July 4.
- Kruse, Louis W., San Jose, Calif. Coupling. No. 1,422,991; July 18.
- Kruse, Peter, assignor to E. W. Bliss Company, Brooklyn, N. Y. Flanging machine for can bodies. No. 1,403,120; Jan. 10.
- Kruse, Peter, assignor to E. W. Bliss Company, Brooklyn, N. Y. Can-body-forming machine. No. 1,419,573; June 13.
- Kruse, Peter, assignor to E. W. Bliss Company, Brooklyn, N. Y. Machine for forming and flanging can bodies. No. 1,430,743; Oct. 3.
- Kruse, Peter, assignor to E. W. Bliss Company, Brooklyn, N. Y. Zigzag cutter. No. 1,433,138; Oct. 24.
- Kruse, Peter, assignor to E. W. Bliss Company, Brooklyn, N. Y. Can body or tube forming machine. No. 1,433,629; Oct. 31.
- Kruse, Peter, assignor to E. W. Bliss Company, Brooklyn, N. Y. Machine for forming beaded can bodies. No. 1,435,862; Nov. 14.
- Kruse, Robert W., Indianapolis, Ind. Forming connecting collars for radiators and feed doors. No. 1,438,767; Dec. 12.
- Krusemark, Frederick A., assignor to K. F. & C. Tire & Rubber Corporation, Roanoke, Va. Mold for making cushion tires. No. 1,408,100; Feb. 28.
- Krusemark, Frederick A., assignor to K. F. & C. Tire & Rubber Corporation, Roanoke, Va. Making rubberized tire fabric. No. 1,422,451; July 11.
- Krutzschnitt, John, New York, N. Y. Tier. No. 1,433,557; Oct. 31.
- Kryl, Joseph M., Chicago, Ill. Hoisting device. No. 1,439,174; Dec. 19.
- Kubat, Otto A., Owatonna, Minn. Headlight dimmer. No. 1,433,731; Oct. 31.
- Kubelka, Vratislav, Brooklyn, N. Y. Tire. No. 1,429,209; Sept. 12.
- Kubelka, Vratislav, Brooklyn, N. Y. Chain tightening and locking device. No. 1,431,012; Oct. 3.
- Kubiak, Antoni, Paterson, N. J. Curtain hanger. No. 1,414,289; Apr. 25.
- Kubicek, Anton C., Blooming Prairie, Minn. Corn-planter attachment. No. 1,425,867; Aug. 15.
- Kubicki, Andrew, assignor of one-half to M. Nalewajk, Webster, Mass. Trap. No. 1,425,023; Aug. 8.
- Kubik, Anthony, Dickinson, N. Dak. Garage-door-operating mechanism. No. 1,424,650; Aug. 1.
- Kubis, Andrzej. (See Brososky, Frank, assignor.)
- Kubista, Charles L., New Ulm, Minn., and J. J. Kovar, Owatonna, Minn.; said Kubista assignor to said Kovar. Transmission mechanism. No. 1,418,809; June 6.

Alphabetical list of patentees—Continued.

- Kübler, Gottfried, assignor to Fried. Krupp Aktiengesellschaft Germania-Verf., Kiel-Gaarden, Germany. Joining metal articles. No. 1,407,202; Feb. 21.
- Kubo, Teikichi, Sacramento, Calif. Agricultural implement. No. 1,405,044; Jan. 31.
- Kucera, Peter, assignor to Capstan Glass Company, South Connellsville, Pa. Ring mold for glass presses and the like. No. 1,412,358; Apr. 11.
- Kucera, Peter, assignor to Capstan Glass Company, Connellsville, Pa. Pitcher, tumbler, and package. No. 1,421,696; July 4.
- Kucharski, Stanislaus, Charlottenburg, near Berlin, assignor to R. A. Hansemann, Berlin, Germany. Motor mechanism for operating telautographs. No. 1,418,657; June 6.
- Kucharski, Stanislaus, Charlottenburg, near Berlin, assignor to R. A. Hansemann, Berlin, Germany. Cinematographic film. No. 1,423,770; July 25.
- Kuczowski, Joseph, Bay City, Mich. Door latch. No. 1,417,391; May 23.
- Kuczynski, Stanislaw, assignor of one-half to Wladysawa Gruchacz, Cleveland, Ohio. Table attachment for beds. No. 1,416,562; May 16.
- Kuczynski, Stanislaw, assignor of one-half to Wladysawa Gruchacz, Cleveland, Ohio. Table attachment for beds. No. 1,435,166; Nov. 14.
- Kudner, Joseph, New York, N. Y. Display stand. No. 1,423,226; July 18.
- Kuebler, Elias, and O. Niederberger, New York, N. Y. Holder for growing plants. No. 1,407,664; Feb. 21.
- Kuechenmeister, Henry W. (See Monsarrat, Nicholas L., assignor.)
- Kuechler, Hermann F. (See Bunk, C., and Kuechler.)
- Kuehl, Ernest C., assignor of one-half to H. C. Lust, Chicago, Ill. Needle holder for sound-reproducing machines. No. 1,414,517; May 2.
- Kuehn, George F., assignor to L. W. Rosenthal, Springfield, Mass. Jack. No. 1,420,114; June 20.
- Kuehn, George F., Springfield, and L. W. Rosenthal, Longmeadow, Mass.; said Kuehn assignor to said Rosenthal. Jack. No. 1,420,113; June 20.
- Kuehn, Herman, New Auburn, Wis. Saw set. No. 1,425,389; Aug. 8.
- Kuehne, Fred O., Jr. (See Kramer, J., Kuehne, and Koppin.)
- Kuehne, Fred O., Jr. (See Kramer, J., Kuehne, and Metzger.)
- Kuehne, Fred O., Jr., and J. Kramer, assignors to Pullman Davenport & Upholstered Furniture Company, Chicago, Ill. Power truck. No. 1,405,137; Jan. 31.
- Kuehner, Arthur T., Elkridge, Md. Removing crane for locomotive smoke-box fronts. No. 1,405,555; Feb. 7.
- Kuehner, Arthur T., Elkridge, Md. Track sander. No. 1,410,684; Mar. 28.
- Kuehner, Arthur T., Elkridge, Md. Freight-car hopper. No. 1,412,660; Apr. 11.
- Kuehner, Arthur T., Elkridge, Md. Driving-box lubricator. No. 1,421,258; June 27.
- Kuehner, Arthur T., Elkridge, Md. Locomotive driving box. No. 1,425,492; Aug. 8.
- Kuehner, Arthur T., Elkridge, Md. Locomotive driving box. No. 1,425,493; Aug. 8.
- Kuehner, Arthur T., Elkridge, Md. Combined car-door lock and opener. No. 1,428,785; Sept. 12.
- Kuehner, Charles P., North Providence, R. I. Bead chain. No. 1,406,463; Feb. 14.
- Kuehner, Charles P., North Providence, R. I. Bead chain. No. 1,414,821; May 2.
- Kuehner, Louis C., assignor to Handian-Buck Manufacturing Company, St. Louis, Mo. Electric lamp. No. 1,416,096; May 16.
- Kuehnle, William, Woodhaven, N. Y. Safety guard. No. 1,407,203; Feb. 21.
- Kuen, Eugene A., assignor to The Thos. J. Corcoran Lamp Co., Cincinnati, Ohio. Glass-fastening for automobile lamps. No. 1,414,088; Apr. 25.
- Kuen, Eugene A., assignor to The Thos. J. Corcoran Lamp Company, Cincinnati, Ohio. Electric switch. No. 1,417,925; May 30.
- Kuen, Eugene A., assignor to T. J. Corcoran, Cincinnati, Ohio. Lamp. No. 1,419,062; June 6.
- Kuen, Eugene A., assignor to The Thos. J. Corcoran Lamp Company, Cincinnati, Ohio. Electric connector. No. 1,422,992; July 18.
- Kuen, Eugene A., assignor to The Thos. J. Corcoran Lamp Company, Cincinnati, Ohio. Means for positioning lamps. No. 1,438,534; Dec. 12.
- Kuen, Eugene A., assignor to The Thos. J. Corcoran Lamp Company, Cincinnati, Ohio. Spotlight lamp. No. 1,438,585; Dec. 12.
- Kuenneth, George W., assignor, by mesne assignments, to J. Kuenneth, Paterson, N. J. Beaming machine. No. 1,412,877; Apr. 18.
- Kuenneth, Jeannette. (See Kuenneth, George W., assignor.)
- Kuentzel, Curt, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-core-stripping machine. (Reissue.) No. 15,284; Feb. 14.
- Kuenz, Joseph A., Jackson, Mich. Radiator core. No. 1,429,440; Sept. 19.
- Kuersten, William. (See Willmann, E. F., and Kuersten.)
- Kuether, August, Milwaukee, Wis. Pneumatic pump. No. 1,425,494; Aug. 8.
- Kuffel, David C., Little Bear Lake, assignor of one-half to A. A. Nixon, Randsburg, Calif. Spring wheel. No. 1,434,291; Oct. 31.
- Kufta, Andrew. (See Laufer, W. A., and Kufta.)
- Kuh, Erwin, Vienna, Austria. Production of neutral alkyl esters of sulphuric acid. No. 1,411,215; Mar. 28.
- Kuhlschmidt, Johannes, Berlin-Hohenschonhausen, Germany. Apparatus for producing cold electric discharges. No. 1,437,760; Dec. 5.
- Kuhlman, Henry J., Colesburg, Iowa. Apparatus for lifting pipes. No. 1,412,182; Apr. 11.
- Kuhlman, Henry J., Colesburg, Iowa. Mechanical movement. No. 1,412,183; Apr. 11.
- Kuhn, Edmond, Brooklyn, N. Y., assignor to Remington Phonograph Corporation, Wilmington, Del. Sound reproducer. No. 1,412,560; Apr. 11.
- Kuhn, Ernst, Effretikon, Switzerland. Elastic connecting shackle for vehicles. No. 1,428,245; Sept. 5.
- Kuhn, Frank, and J. A. Hand, assignors to American Electrical Heater Company, Detroit, Mich. Electrical heater. No. 1,419,935; June 20.
- Kuhn, Frank, and L. H. Thomas, assignors to American Electrical Heater Company, Detroit, Mich. Electric soldering iron. No. 1,425,983; Aug. 15.
- Kuhn, Frank, L. H. Thomas, and J. G. Spiess, assignors to American Electrical Heater Company, Detroit, Mich. Heating unit for electrically-heated tools. No. 1,407,692; Feb. 28.
- Kuhn, George W., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Testing apparatus for telephone-switchboard cords. No. 1,406,195; Feb. 14.
- Kuhn, George W., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Telephone circuits. No. 1,416,724; May 23.
- Kuhn, George W., and E. R. Lundius, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Telephone trunk circuits. No. 1,435,968; Nov. 21.
- Kuhn, Harry A., Pittsburgh, Pa. Mining machine. No. 1,425,103; Aug. 8.
- Kuhn, James B., Cameron, W. Va. Automatic stop for moving-picture machines. No. 1,423,948; July 25.
- Kuhn, McClellan A., Porterville, and F. Stebler, assignors to Stebler-Parker-Kuhn Co., Riverside, Calif. Packing-service apparatus. No. 1,439,825; Dec. 26.
- Kühn, Paul, Leipzig-Stötteritz, Germany. Angle plate and handle for dentists' boring machines. No. 1,406,263; Feb. 14.
- Künn, Paul, Dortmund, Germany. Regenerator for smelting furnaces. No. 1,421,259; June 27.
- Kuhn, Preston H., El Paso, Tex. Dynamo-electric machine. No. 1,402,870; Jan. 10.
- Kuhn, Preston H., Seattle, Wash. Piston. No. 1,439,109; Dec. 19.
- Kuhn, Warner. (See Kuehne, Paul, assignor.)
- Kuhn, William O., Alderwood Manor, assignor of one-half to W. R. Gay, Seattle, Wash. Universal joint. No. 1,434,443; Nov. 7.
- Kuhne, Beat, Lewistown, Mont. Milk-bottle cap. No. 1,434,493; Nov. 7.
- Kuhne, Paul, Chicago, Ill., assignor of one-half to W. Kuhn, Birmingham, Ala. Radiator for motor vehicles. No. 1,417,466; May 23.
- Kuhne, William H., Waterbury, Conn. Automatic advertising device. No. 1,421,961; July 4.
- Kuhns, Howard F., Allentown, Pa. Safety attachment for washing machines. No. 1,430,237; Sept. 26.
- Kuhsiek, Albert J. H., and A. Mayer, Brooklyn, N. Y., assignors to Steel Spring Piston Ring Co., Brooklyn, N. Y. Piston ring. No. 1,419,150; June 13.
- Kültz, Friedrich, Cannstatt, Germany. Baker's oven. No. 1,408,360; Feb. 28.
- Kuljper, Klaas, and H. Bakker, IJmuiden, Netherlands. Fishing net for steam trawlers. No. 1,434,292; Oct. 31.
- Kukac, Edward J., Chicago, Ill. Mold. No. 1,422,108; July 11.
- Kukac, Edward J., Chicago, Ill. Adjustable mold. No. 1,431,164; Oct. 10.
- Kulas, Karl, Leipzig, and C. Pauling, Leipzig-Lindenau, Germany. Manufacturing of products of condensation from phenol. No. 1,413,139; Apr. 25.
- Kulenkampf, Carl A., New York, N. Y. Ice-cream-storage apparatus. No. 1,429,887; Sept. 19.
- Kulick, Abraham, New York, N. Y. Hand bag. No. 1,406,035; Feb. 7.
- Kull, Samuel B., Bridgeport, Conn. Rail-fastening means. No. 1,419,865; June 13.
- Kulp, Louis F., Gwynedd, Pa. Jar-cap former. No. 1,418,939; June 6.
- Kumier, Edwin, Cleveland, Ohio. Vacuum fuel-feed device. No. 1,409,455; Mar. 14.
- Kummer, Henry R. E., Darlington, Wis. Vapor-regulator gauge. No. 1,412,787; Apr. 11.
- Kummeth, Frank J., Heron Lake, Minn. Stringed musical instrument. No. 1,429,954; Sept. 26.
- Kumpf, August D., Philadelphia, Pa. Actuating mechanism for windows, sashes, shutters, or the like. No. 1,430,819; Oct. 3.
- Kumpf, August D., Philadelphia, Pa. Elbow-making machine. No. 1,439,559; Dec. 19.

- Kundert, David, New Glarus, Wis. Manure-fork attachment. No. 1,434,828; Nov. 7.
- Kundtz, Theodor Company, The. (See Stark, E., and Kehor, assignors.)
- Kunert, Felix, and E. Acker, Offenbach-on-the-Main, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Multicolor printing. No. 1,426,299; Aug. 15.
- Kunkel, Bert, Hart, Mich. Battery cover. No. 1,424,144; July 25.
- Kunkel, John B., Detroit, Mich. Hinge. No. 1,402,871; Jan. 10.
- Kunkel, Michael, Grand Rapids, Mich. Box clamp. No. 1,426,394; Aug. 22.
- Kunkel, Sherman T., Los Angeles, Calif. Gauge-cock operating tool. No. 1,422,771; July 11.
- Kunkel, Victor V. (See Crawford, Beatty M., assignor.)
- Kunkle, Bayard D., Wilksburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Starting mechanism for automobiles. No. 1,437,061; Nov. 28.
- Kunkle, George, Grand Junction, Colo. Track. No. 1,404,127; Jan. 17.
- Kunkler, Charles L., and F. J. Fullenkamp, Coldwater, Ohio. Fertilizer distributor. No. 1,403,695; Jan. 17.
- Kuno, Shichigoro, Sublet, Wyo. Lid holder and hand shield for coffeepots and the like. No. 1,402,517; Jan. 3.
- Kunst, John, New York, N. Y. Child's vehicle. No. 1,403,607; Jan. 17.
- Kunz, Charles A., Dubuque, Iowa. Door hanger. No. 1,424,311; Aug. 1.
- Kunz, George, Cleveland, Ohio. Gasket for intake manifolds. No. 1,415,656; May 9.
- Kunze, Herman H., Marissa, Ill. Lamp-tilting device. No. 1,410,762; Mar. 28.
- Kupfer, Carl, Nuremberg, assignor to Firm Triumph-Werke Nürnberg A.-G., Nuremberg, Bavaria, Germany. Free wheel for the platen of typewriting machines. No. 1,438,603; Dec. 12.
- Kupferman, Oscar, Brooklyn, N. Y. Electric-light fixture. No. 1,410,325; Mar. 21.
- Kuppenheim, Firm of Louis. (See Kölsch, Reinhard, assignor.)
- Küpfer, Ernst. (See Rychiger, R., and Küpfer.)
- Kurczab, Szczepan, Fairpoint, Ohio. Combined sword and revolver. No. 1,404,034; Jan. 17.
- Kurfess, Christian A., et al. (See Wagner, Leslie A., assignor.)
- Kurka, Anton, Phillips, Wis. Wrench. No. 1,402,505; Jan. 3.
- Kurnick, Peter E., San Francisco, Calif. Couch armchair. No. 1,421,260; June 27.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,408,009; Feb. 28.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,410,478; Mar. 21.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,415,455; May 9.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,419,635; June 13.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,425,024; Aug. 8.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,425,326; Aug. 8.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,425,390; Aug. 8.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,427,689; Aug. 29.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,428,550; Sept. 12.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,428,851; Sept. 12.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,434,659; Nov. 7.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,438,045; Dec. 5.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,440,089; Dec. 26.
- Kursheedt, Alphonse H., New York, N. Y. Bead-sewing machine. No. 1,423,287; Oct. 24.
- Kurtz, Charles M. (See Burwell, G. O., and Kurtz.)
- Kurtz, Christian S., Ephrata, Pa. Pump. No. 1,419,151; June 13.
- Kurtz, Roberto, Buenos Aires, Argentina. Excavating machine. No. 1,411,632; Apr. 4.
- Kurtz, Stewart S., jr., Canton, Ohio. Metallic rod packing. No. 1,424,655; Aug. 1.
- Kurtz, William H., Bloomfield, N. J. Furnace attachment. No. 1,427,483; Aug. 29.
- Kurzwa, Anthony M., Chicago, Ill. Spike puller. No. 1,408,361; Feb. 28.
- Kus, Thomas G., assignor, by mesne assignments, to Chicago Trust Company, trustee, Chicago, Ill. Coke-oven door. No. 1,412,247; Apr. 11.
- Kusel, Isidor J., assignor to Stronghart Company, Chicago, Ill. Lock for small coin banks. No. 1,413,538; Apr. 18.
- Kushnier, John, Avella, Pa. Trolley wheel and frog. No. 1,434,293; Oct. 31.
- Kuster, Charles E., administrator. (See Kuster, Frederick E.)
- Kuster, Frederick E., Evansville, Ind. Tray-making machine. No. 1,403,173; Jan. 10.
- Kuster, Frederick E., deceased, Evansville, Ind.; C. E. Kuster, administrator. Tray-making machine. No. 1,436,266; Nov. 21.
- Kusterle, Frank, assignor to Simmons Company, Kenosha, Wis. Metal bedstead. No. 1,411,362; Apr. 4.
- Kutscha, Alois. (See Barkmann, H., and Kutscha.)
- Kutschmar, John F., assignor to Federal Automobile and Body Painting and Trimming Co., Detroit, Mich. Seat cover. No. 1,418,940; June 6.
- Küttner, Ernst W., Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Manufacturing electric coils of aluminum. No. 1,431,237; Oct. 10.
- Kux, Albert S., Chicago, Ill., assignor to Signode System, Inc. Machine for forming reinforcing girths. No. 1,424,831; Aug. 8.
- Kuzelka, William, New York, N. Y. Player piano. No. 1,402,622; Jan. 3.
- Kuzell, Charles R., and J. R. Marston, Clarkdale, Ariz. Purification of zinc-sulphate solutions. No. 1,427,826; Sept. 5.
- Kwarnstrom, Erik A., Chicago, Ill. Lock nut. No. 1,405,138; Jan. 31.
- Kwasnieski, Thomas M., Torrington, Conn. Door bell and knob. No. 1,402,514; Jan. 3.
- Kwik-Kut Knife Co. (See Delsing, Edward C., assignor.)
- Kyle, Arch, assignor to Knoxville Glove Company, Knoxville, Tenn. Glove. No. 1,437,318; Nov. 28.
- Kyle, Christian B., Philadelphia, Pa. Deflector for headlights. No. 1,439,110; Dec. 19.
- Kyle, George B. (See Hosch, G. C., and Kyle.)
- Kyle, Robert T., Huntington, W. Va. Kiln. No. 1,426,655; Aug. 22.
- Kyle, William, Belleville, Ontario, Canada. Supporting spring. No. 1,439,005; Dec. 19.
- Kyle, William D. (See West, Merle J., assignor.)
- Kyokuto Jidoshia Kogyo Co. (See Watanabe, Masanori, assignor.)
- Kyriazopoulos, James, Lowell, Mass. Confetti bomb. No. 1,423,122; July 18.
- L. and H. Special Machine Co., The. (See Lindner, Arthur E., assignor.)
- L-W-F Engineering Company. (See Cato, Joseph L., assignor.)
- L-W-F Engineering Company. (See Willard, Charles F., assignor.)
- Labadie, William D., assignor to W. Bandurski, Chicago, Ill. Corn popper. No. 1,430,511; Sept. 26.
- Labak, John, Canton, Ohio. Air-motor device for bicycles. No. 1,410,326; Mar. 21.
- Laban, Charles, Walsall, England. Tobacco pipe. No. 1,426,656; Aug. 22.
- Labbe, Roy, Baltimore, Md. Automatic switch. No. 1,413,740; Apr. 25.
- Labhard, Ernst, Thalwil, Switzerland. Penholder. No. 1,425,984; Aug. 15.
- La Blanc, Edward G., Osseo, Wis. Clutch lock. No. 1,434,494; Nov. 7.
- La Bombard, Leon E., assignor to Specialty Automatic Machine Company, Chelsea, Mass. Machine for making boxes. No. 1,407,331; Feb. 21.
- La Bombard, Leon E., assignor to Specialty Automatic Machine Company, Chelsea, Mass. Blank feeder. (Re-issue.) No. 15,293; Feb. 28.
- La Bombard, Leon E., Chelsea, and M. H. Sidebotham, Cliftondale, assignors to Specialty Automatic Machine Company, Chelsea, Mass. Method and device for perfecting folded paper boxes. No. 1,405,139; Jan. 31.
- La Bombard, Leon E., Chelsea, and M. H. Sidebotham, Cliftondale, assignors to Specialty Automatic Machine Company, Chelsea, Mass. Counter. No. 1,409,187; Mar. 14.
- La Bombard, Leon E., Chelsea, and M. H. Sidebotham, Cliftondale, assignors to Specialty Automatic Machine Company, Chelsea, Mass. Power-operated counter. No. 1,409,188; Mar. 14.
- La Bombard, Leon E., Chelsea, and M. H. Sidebotham, Cliftondale, assignors to Specialty Automatic Machine Company, Chelsea, Mass. Gluer for blanks. No. 1,412,471; Apr. 11.
- La Bombard, Leon E., Chelsea, and M. H. Sidebotham, Cliftondale, assignors to Specialty Automatic Machine Company, Chelsea, Mass. Top gluer. No. 1,423,567; July 25.
- La Bombard, Leon E., and M. H. Sidebotham, assignors to Specialty Automatic Machine Company, Chelsea, Mass. Stacker. No. 1,434,014; Oct. 31.
- Labombarde, Elie W. (See Chapman, Frank M., assignor.)
- Labonté, Joseph, Blaisville, Quebec, Canada. Cutting tool. No. 1,416,843; May 23.

Alphabetical list of patentees—Continued.

- Laboratories, E. A., Inc. (See Aufiero, Emanuel, assignor.)
- Laborda, Richard. (See Spreckels, J. D., jr., and Laborda.)
- La Borde, Hillard P., Driftwood, Pa. Fastening device. No. 1,430,238; Sept. 26.
- La Borie, Louis, Rochester, N. Y. Game apparatus. No. 1,413,481; Apr. 18.
- La Borie, Louis, Rochester, N. Y. Picture-making apparatus. No. 1,425,597; Aug. 15.
- La Bour, Harry E., assignor to Chemical Equipment Company, Chicago, Ill. Pumping system. No. 1,419,273; June 13.
- Laburda, Walter, Coalton, Okla. Fan attachment for sewing machines. No. 1,427,827; Sept. 5.
- Labus, Otto A., Wisconsin Rapids, Wis. Automatic water-cooling system. No. 1,423,337; July 18.
- Lacasse, Joseph A., Lake Linden, Mich. Motor sleigh. No. 1,420,267; June 20.
- Lace, Edward H., Vandergrift, Pa. Dental-plate anchorage. No. 1,422,452; July 11.
- Lacene Manufacturing Company. (See Cogswell, Leander A., assignor.)
- Lacey, Paul H., assignor to Peerless Door Control Company, Chicago, Ill. Door-operating mechanism. No. 1,411,039; Mar. 28.
- La Chapelle, Fred N., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Thread-fastening machine. No. 1,404,775; Jan. 31.
- La Chapelle, Fred N., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,412,082; Apr. 11.
- La Chapelle, Fred N., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. No. 1,415,935; May 16.
- Lacher, George P., Chicago, Ill. Automobile engine-hood support. No. 1,439,474; Dec. 19.
- Lachman, Laurence S., New York, N. Y. Composite metal work. No. 1,435,010; Nov. 7.
- Lachman, Laurence S., assignor to Universal Electric Welding Company, New York, N. Y. Side-welding wires. No. 1,416,359; May 16.
- Lachman, Laurence S., assignor to Universal Electric Welding Company, New York, N. Y. Electric welding device. No. 1,416,360; May 16.
- Lachman, Laurence S., assignor to Universal Electric Welding Company, New York, N. Y. Girder or frame. No. 1,419,274; June 13.
- Lachman, Maurice, New York, N. Y., assignor to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,403,121; Jan. 10.
- Lachman, Maurice, New York, N. Y., assignor to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,420,432; June 20.
- Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel and making same. No. 1,424,490; Aug. 1.
- Lachman, Maurice, New York, N. Y., assignor to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,426,881; Aug. 22.
- Lachman, Maurice, New York, N. Y., assignor to Bethlehem Steel Company, Bethlehem, Pa. Hub filler for metal wheels. No. 1,430,910; Oct. 3.
- Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Wire wheel. No. 1,432,191; Oct. 17.
- Lachman, Maurice, assignor to Electro Steel Products Corporation, New York, N. Y. Metal pole. No. 1,434,126; Oct. 31.
- Lack, Fred S., Paducah, Ky. Metallic vehicle wheel. No. 1,439,475; Dec. 19.
- Lackawanna Steel Company. (See Abbott, Franklin E., assignor.)
- Lackawanna Steel Company. (See Boardman, C. S. and Conkling, assignors.)
- Lackawanna Steel Company. (See Boardman, Charles S., assignor.)
- Lacke, William A., Chicago, Ill. Oil heater. No. 1,412,620; Apr. 11.
- Lackey, Abraham, Rialto, Calif. Mixing machine. No. 1,408,609; Mar. 7.
- Lackey, Joseph C., Long Branch, N. J. Figure toy. No. 1,423,618; July 25.
- Lackman, Theodore H., Augusta, Ga. Packing ring. No. 1,413,409; Apr. 18.
- Lackyard, Todd E. (See Munger, William S., assignor.)
- La Compagnie des Produits Chimiques d'Alais et de la Camargue. (See Guyot, Alfred, assignor.)
- La Compagnie Des Transporteurs Simplex. (See Fouchy, Albert, assignor.)
- Lacoste, Patrick, San Antonio, Tex. Sink strainer. No. 1,424,022; July 25.
- La Cour, Carl A., Washington, Nebr. Clamping device for demountable rims. No. 1,425,025; Aug. 8.
- La Cour, Dan, Charlottenlund, near Copenhagen, and C. V. Schou, Copenhagen, Denmark. Production of heat and its application for heating liquids and other purposes. No. 1,417,075; May 23.
- Lacour, John P., New York, N. Y. Ice anchor. No. 1,429,210; Sept. 12.
- La Croix, George. (See Hurtt, Frank L., assignor.)
- La Crosse Plow Company. (See Cameron, William W., assignor.)
- Lacroette, Nazaire, Paris, France. Protecting mask for boxing pupils. No. 1,432,471; Oct. 17.
- Lacy, Dell. (See Schellenbach, W. L., and Lacy.)
- Lacy, Dell, assignor to The Irwin Auger Bit Company, Wilmington, Ohio. Cutting, shaping, and polishing metal articles. No. 1,415,879; May 16.
- Lacy, Edyth, New York, N. Y. Sanitary protector. No. 1,407,872; Feb. 28.
- Lacy, John B., Chicago, Ill. Refrigeration system. No. 1,404,531; Jan. 24.
- Lacy, John B., Chicago, Ill. Gravity air circulator. No. 1,436,884; Nov. 28.
- Lacy, William C., Yuma, Ariz. Wheel. No. 1,412,359; Apr. 11.
- Ladd, Earnest W., New York, N. Y. Antirattler for windows. No. 1,406,264; Feb. 14.
- Ladd, Earnest W., assignor to E. V. George, New York, N. Y. Record-filing rack. No. 1,417,471; May 23.
- Ladd, Edward T., and E. C. Speiden, assignors to Isco Chemical Company, Inc., Niagara Falls, N. Y. Bleaching powder and producing the same. No. 1,409,955; Mar. 21.
- Ladd, Edward T., and E. C. Speiden, assignors to Isco Chemical Company, Inc., Niagara Falls, N. Y. Bleaching powder. No. 1,421,503; July 4.
- Ladd, James B., Ardmore, Pa. Method and means for brick backing. No. 1,418,003; May 30.
- Ladd, James B., Ardmore, Pa. Method and means for brick backing. No. 1,418,658; June 6.
- Ladd, James B., Ardmore, Pa., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Pipe-cutting-off machine. No. 1,419,936; June 20.
- Ladd, Lester L., Lockport, assignor to Photometric Products Corporation, Chicago, Ill. Sorting machine. No. 1,432,762; Oct. 24.
- Ladd, Milo. (See Scobie, H. F., and Ladd.)
- Ladd, Oliver, Dyersburg, Tenn. Railway-rail fastener. No. 1,410,479; Mar. 21.
- Ladisch, Karl, Meissen, Germany. Drier. No. 1,416,960; May 23.
- La Dow, Everett A., Cleveland, Ohio. Attachment for scales. No. 1,402,774; Jan. 10.
- Ladyman, Joe P., Shawnee, Okla. Dirigible headlight. No. 1,404,303; Jan. 24.
- La Fayette Motors Company. (See Applin, J. W., and Watson, assignors.)
- La Fayette Motors Company. (See Lowe, John D., assignor.)
- La Fayette Motors Company. (See White, D'Orsay M., assignor.)
- La Fayette, Theodore E. (See Glidden, A. A., La Fayette, and Gaughan.)
- Laffey, William J. (See Grace, E. B., and Laffey.)
- Lafitte, Theodore, Paris, France. Motor with change-speed device. No. 1,408,748; Mar. 7.
- Lafleur, Isaie. (See St. Jean, A., and Lafleur.)
- La Fond, Louis A., assignor of fifty-one per cent to W. G. Jordan, Minneapolis, Minn. Suction-controlled governor. No. 1,411,735; Apr. 4.
- La Fonderie de Plessisville. (See Tardif, Omeril, assignor.)
- Laforest, Jules C., Thibodaux, La. Chain pump and the like. No. 1,437,898; Dec. 5.
- La France, David J. (See De Witt, W. P., and La France.)
- La France, Richard, assignor to The Owens Bottle Company, Toledo, Ohio. Means for making bottles. No. 1,404,206; Jan. 24.
- La France, Richard, assignor to The Owens Bottle Company, Toledo, Ohio. Mechanism for transferring glassware to leers. No. 1,413,741; Apr. 25.
- La France, Richard, assignor to The Owens Bottle Company, Toledo, Ohio. Vacuum capacity device for glass machines. No. 1,413,742; Apr. 25.
- La France, Richard, assignor to The Owens Bottle Company, Toledo, Ohio. Means for guiding molten glass. No. 1,416,725; May 23.
- La France, Richard, assignor to The Owens Bottle Company, Toledo, Ohio. Glass-cutting mechanism. No. 1,439,368; Dec. 19.
- La France, Richard, assignor to The Owens Bottle Company, Toledo, Ohio. Means for feeding charges of molten glass. No. 1,439,369; Dec. 19.
- La Fray, Elmer F. (See Taylor, J. H., and La Fray.)
- La Gank, Hugo C., and M. J. Tamblin, Cleveland, Ohio. Attachment for punch presses. No. 1,408,894; Mar. 7.
- Lagerquist, Henry. (See Anderson, Julius P., assignor.)
- Laher, Frank J., Seattle, Wash. Means for supporting bumpers on auto chassis. No. 1,431,737; Oct. 10.
- Laher, Frank J., Seattle, Wash. Bumper for vehicles. No. 1,432,602; Oct. 17.
- Lahey, Dennis E., Louisville, Ky. Railway-switch filler. No. 1,421,962; July 4.
- Lahey, Dennis E., Louisville, Ky. Railway switch. No. 1,421,963; July 4.
- Lahey, Dennis E., Louisville, Ky. Railway trackage. No. 1,435,011; Nov. 7.
- Lahey, Dennis E., Louisville, Ky. Railway switch. No. 1,435,012; Nov. 7.
- Lahey, Dennis E., and N. A. Norton, Louisville, Ky. Railway switch. No. 1,411,851; Apr. 4.
- Lahey, Frank T. (See Roberts, William, assignor.)

- Lahey, Frank T., Akron, Ohio. Manufacturing insulating and resistant articles and products thereof. No. 1,422,720; July 11.
- Lahiff, James, Leavenworth, Kans. Ignition apparatus for multiple engine. No. 1,409,730; Mar. 14.
- Lahm, Ferdinand, St. Louis, Mo. Folding chair. No. 1,404,449; Jan. 24.
- Lahman, Frank H., Lebanon, Pa. Ash-sifting device. No. 1,403,469; Jan. 10.
- La Hodny, William, Buffalo, N. Y. Bracket for supporting mirrors. No. 1,420,268; June 20.
- La Hodny, William, Buffalo, N. Y. Mounting for supporting mirrors. No. 1,428,042; Sept. 5.
- La Hodny, William, Buffalo, N. Y. Mirror. No. 1,437,850; Dec. 5.
- Lahr, Nicholas J., Farmer, S. D. Implement holder. No. 1,404,866; Jan. 31.
- Laidlaw, Royal D., Jersey City, N. J. Carpet sweeper. No. 1,433,957; Oct. 31.
- Laing, Robert, Middleton, England. Machine for pressing lines or designs into rollers. No. 1,414,574; May 2.
- Laing, William F., Cumberland, Md. Poison bottle. No. 1,436,506; Nov. 21.
- Laing, William F., Kansas City, Mo. Sectional rim. No. 1,438,836; Dec. 12.
- L'Air Liquide Societe Anonyme Pour L'Etude Et L'Exploitation Des Procédes, Georges Claude. (See Claude, Georges, assignor.)
- Laird, Frank J., Butte, Mont. Drill-bit die. No. 1,440,018; Dec. 26.
- Laird, Frank J., Butte, Mont. Drill-bit die. No. 1,440,019; Dec. 26.
- Laird, George, Cedar Rapids, Iowa, assignor to The Quaker Oats Company, Chicago, Ill. Animal feed and making the same. No. 1,432,295; Oct. 17.
- Laird, Wesley E., Pittsfield, Mass. Internal-combustion engine. No. 1,418,875; June 6.
- Laird, Wilbur G., assignor to H. L. Doherty, New York, N. Y. Scrubber. No. 1,419,867; June 13.
- Laise, Clemens A., Weehawken, N. J. Alloy and preparation of the same for contact bodies and ignition points. No. 1,418,081; May 30.
- Laise, Clemens A., Weehawken, N. J., assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y. Alloy and producing same. No. 1,423,338; July 18.
- Laist, Frederick, and L. E. Jones, Anaconda, Mont., assignors to Anaconda Copper Mining Company. Roofing strip. No. 1,428,169; Sept. 5.
- Laist, Frederick, F. F. Frick, E. Klepetko and L. P. Davidson, assignors to Anaconda Copper Mining Company, Anaconda, Mont. Coloring metallic copper. No. 1,428,170; Sept. 5.
- Laitner, A., & Sons. (See Yaeger, Carl, assignor.)
- La Jeunesse, Jean B. A., Alameda, Calif. Eating appliance. No. 1,409,731; Mar. 14.
- Lake, Bertus A., Big Prairie, Ohio. Corn-husking machine. No. 1,438,383; Dec. 12.
- Lake, Charles W., McHenry, Kans. Attachment for pumps. No. 1,406,036; Feb. 7.
- Lake, Claude C., assignor to N. Krump, Chicago, Ill. Overhead switch. No. 1,404,177; Jan. 17.
- Lake, Fred O., Park Lane, Va. Clothesline hanger. No. 1,423,530; July 25.
- Lake, Harold M., Gettysburg, S. D. Draft device. No. 1,404,867; Jan. 31.
- Lake, Harry M., and O. C. Betry, Los Angeles, Calif. Automobile theft signal. No. 1,424,106; July 25.
- Lake, James, jr., Brooklyn, assignor to James Lake's Sons, New York, N. Y. Hat-machine press. No. 1,429,083; Sept. 12.
- Lake, Simon, Milford, Conn. Apparatus for constructing conduits and the like. No. 1,409,732; Mar. 14.
- Lake Tool Company. (See Stafford, Roy M., assignor.)
- Lake Torpedo Boat Company, The. (See Hoffman, Howard H., assignor.)
- Lake Torpedo Boat Company, The. (See King, Charles C., assignor.)
- Lake Torpedo Boat Company, The. (See Kolvig, Johannes F. W., assignor.)
- Lake, Wyvil H., Stoke-upon-Trent, England. Gas-reversing valve. No. 1,424,832; Aug. 8.
- Lake's, James, Sons. (See Lake, James, jr., assignor.)
- Lakeside Malleable Castings Company. (See Smith, Edwin K., assignor.)
- Lakewood Engineering Company, The. (See Mosel, Joseph H., assignor.)
- Lakewood Engineering Company, The. (See Pleines, Henry T., assignor.)
- Lakin, Harry R., assignor to The Pierce Governor Company, Anderson, Ind. Wheel chock for hand trucks. No. 1,411,790; Apr. 4.
- Lakin, Harry W., Boston, Mass. Garment supporter. No. 1,414,476; May 2.
- Lakin, William T., Long, Md. Automatic stopping device for phonographs. No. 1,412,472; Apr. 11.
- Laliberte, Narcisse E., assignor to Hamel Shoe Machinery Company, Haverhill, Mass. Bobbin-case lock. No. 1,414,026; Apr. 25.
- Lally, John, Boston, Mass. Building column. No. 1,418,581; June 6.
- Lally, John, Boston, Mass. Building column. No. 1,432,192; Oct. 17.
- La Londe, William S., Evanston, Ill. Electric liquid-level indicator. No. 1,406,196; Feb. 14.
- La Londe, William S., Evanston, Ill. Electric switch for auto gear-shift and brake levers. No. 1,436,507; Nov. 21.
- Lalor, John C. (See Middleton, Percy R., assignor.)
- Lamadrid, Federico Santos, Madrid, Spain. Apparatus applicable to the receivers of telephones. No. 1,419,063; June 15.
- La Maida, Thomas, New York, N. Y. Jock strap. No. 1,429,510; Sept. 19.
- Lamar, Alexis L., Pittsburg, Kans. Fuel-supply system for internal-combustion engines. No. 1,408,749; Mar. 7.
- Lamar, Alexis L., Pittsburg, Kans. Preheating device for internal-combustion engines. No. 1,411,633; Apr. 4.
- Lamb, Adam F., New York, N. Y. Direction indicator. No. 1,402,623; Jan. 3.
- Lamb, Arthur B. (See Frazer, Lamb, and Merrill.)
- Lamb, Arthur B., Washington, D. C. Antidimmer for respirators and the like. No. 1,418,264; May 30.
- Lamb, Arthur B., Washington, D. C. Method and apparatus for treating gases and gaseous substances. No. 1,422,211; July 11.
- Lamb, Arthur B., Cambridge, Mass. Safety razor. No. 1,436,451; Nov. 21.
- Lamb, Arthur B., and A. T. Larson, Washington, D. C. Gas detector. No. 1,416,361; May 16.
- Lamb, Arthur W., et al. (See Riley, George, assignor.)
- Lamb, Charles C., Chicago, Ill. Washing machine. No. 1,403,966; Jan. 17.
- Lamb, Charles C., assignor of one-half to W. M. McEwen, Chicago, Ill. Gearing for washing machines. No. 1,403,503; Jan. 17.
- Lamb, Charles C., assignor of one-half to W. M. McEwen, Chicago, Ill. Driving mechanism for washing machines. No. 1,423,531; July 25.
- Lamb, Claude G., and K. O. Waldvogel, assignors to The Johnson Manufacturing Company, Urbana, Ohio. Spout for cans. No. 1,437,663; Dec. 5.
- Lamb, George L., Nappanee, Ind. Trouble light for automobiles. No. 1,431,822; Oct. 10.
- Lamb, Edwin, Youngstown, Ohio. Hose and rope reel. No. 1,437,597; Dec. 5.
- Lamb, Henry H., Fountain City, Tenn. Dispensing-machine supply. No. 1,429,511; Sept. 19.
- Lamb, James, Canton, Ill. Telpherage system. No. 1,429,888; Sept. 19.
- Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Metallic frame. No. 1,413,918; Apr. 25.
- Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Range. No. 1,416,478; May 16.
- Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Driving mechanism for washing machines. No. 1,416,479; May 16.
- Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Electrically-heated utensil. No. 1,422,721; July 11.
- Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Electrically heated device. No. 1,431,468; Oct. 10.
- Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Electrically-heated sadiron. No. 1,437,111; Nov. 28.
- Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Electrically-heated utensil. No. 1,439,965; Dec. 26.
- Lamb, Joseph F., and G. A. Hume, assignors to Landers, Frary & Clark, New Britain, Conn. Coupling device. No. 1,435,482; Nov. 14.
- Lamb, Karl B., New York, N. Y., assignor to The American Cotton Oil Company. Paint composition. No. 1,424,414; Aug. 1.
- Lamb, Karl B., New York, N. Y., assignor to The American Cotton Oil Company. Pigment and pigment composition, etc. No. 1,424,729; Aug. 1.
- Lamb, Thomas B., New York, N. Y. Handkerchief retainer. No. 1,408,610; Mar. 7.
- Lamb, William G., assignor to A. I. Woodring Company, Waterloo, Iowa. Removable trolley shoe. No. 1,402,076; Jan. 3.
- Lamb & Nash Company. (See Johnson, Carl B., assignor.)
- Lambdin, William M., Waco, Tex. Universal household grater. No. 1,411,634; Apr. 4.
- Lambercier Firm J., & Co. (See Kornfeld, Adrien, assignor.)
- Lambert, Albert L., Narberth, Pa. Steering wheel. No. 1,404,035; Jan. 17.
- Lambert, Albert L., Narberth, assignor to American Motor Body Company, Philadelphia, Pa. Car seat. No. 1,411,791; Apr. 4.
- Lambert, Albert L., Narberth, Pa., and A. Bell, Philadelphia, Pa., assignors to American Motor Body Company, Philadelphia, Pa. Windshield. No. 1,417,076; May 23.
- Lambert, Arthur H., and J. Dubois, Biddeford, Me. Top-roll clearer board and apron clip for drawing frames. No. 1,427,158; Aug. 29.
- Lambert, Chris H., assignor to Hercules Rubber Corporation, Cincinnati, Ohio. Resilient tire. No. 1,402,624; Jan. 3.
- Lambert, Edouard, Paris, and R. Pernin, La Plaine St. Denis, France. Mechanical process of weaving. No. 1,428,786; Sept. 12.

Alphabetical list of patentees—Continued.

- Lambert, Edward, Convent, La. Weed-destroying machine. No. 1,435,483; Nov. 14.
- Lambert, Floyd D., Fort Worth, Tex. Locomotive-wheel hub and plate. No. 1,434,444; Nov. 7.
- Lambert, Frank W., Hancock, Iowa. Propeller. No. 1,422,109; July 11.
- Lambert, George A., Anderson, Ind. Bookkeeping entry sheet. No. 1,419,275; June 13.
- Lambert, George B., Huntingdon, Tenn. Developing basket. No. 1,429,889; Sept. 19.
- Lambert, Henry M., assignor to Lambert Tire & Rubber Company, Portland, Oreg. Manufacturing stretchless belting. No. 1,412,309; Apr. 11.
- Lambert, Henry M., assignor to Lambert Tire & Rubber Company, Portland, Oreg. Manufacturing belts. No. 1,412,310; Apr. 11.
- Lambert, Henry M., Portland, Oreg., assignor to Lambert Tire & Rubber Company, Akron, Ohio. Mold for pneumatic tires. No. 1,416,362; May 16.
- Lambert, Henry M., assignor to Lambert Tire and Rubber Company, Portland, Oreg. Manufacturing cushion tires. No. 1,429,512; Sept. 19.
- Lambert, Homer P., Anderson, Ind. Spring shackle. No. 1,437,185; Nov. 28.
- Lambert, John W., Anderson, Ind. Tractor. No. 1,423,227; July 18.
- Lambert, Louis A., Rome, N. Y. Metal-bur filer. No. 1,439,370; Dec. 19.
- Lambert, Rudolph P., Chicago, Ill. Removable switch. No. 1,410,020; Mar. 21.
- Lambert, Russell A., assignor to Brooks Bank Note Company, Springfield, Mass. Display container. No. 1,410,763; Mar. 28.
- Lambert Tire and Rubber Company. (See Lambert, Henry M., assignor.)
- Lamberti, William, New York, N. Y. Automatic automobile fender. No. 1,408,362; Feb. 28.
- Lambeth, James E., assignor to The Standard Chair Company, Thomasville, N. C. Chair seat. No. 1,411,635; Apr. 4.
- Lambie, Charles and F. W., Minneapolis, Minn. Convertible cot and table. No. 1,428,642; Sept. 12.
- Lambie, Frederick W. (See Lambie, Charles and F. W.)
- Lamblin, Alexandre, Paris, France. Motor car and lorry front. No. 1,403,967; Jan. 17.
- Lamblin, Alexandre, Paris, France. Radiator for motor cars and the like. No. 1,430,170; Sept. 26.
- Lambreton, Charles O., Plaquemine, La. Combination tire and rim. No. 1,423,435; July 18.
- Lamche, Johann. (See Scherler, F. and Lamche.)
- Laminated Shim Company. (See Darrach, Bradford, Jr., assignor.)
- Lamkin, William S., Memphis, Tenn. Attachment for turning plows. No. 1,434,899; Nov. 7.
- Lamme, Benjamin G., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Driving system for gyroscopic stabilizers. No. 1,416,038; May 16.
- Lammers, Edwin S., Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical system. No. 1,406,565; Feb. 14.
- Lammers, Edwin S., Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,411,040; Mar. 28.
- Lammers, Edwin S., Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,411,041; Mar. 28.
- Lammers, Edwin S., Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,411,042; Mar. 28.
- Lammers, Edwin S., Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,411,043; Mar. 28.
- Lammers, Edwin S., Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,414,422; May 2.
- Lammers, Edwin S., Jr., Elyria, Ohio., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,417,750; May 30.
- Lammers, Edwin S., Jr., Elyria, Ohio., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,421,261; June 27.
- Lamon, John, et al. (See Knoblock, William, assignor.)
- Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Draw-bar yoke. No. 1,412,622; Apr. 11.
- Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Six-wheel railway car truck. No. 1,418,308; June 6.
- Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Equalizing truck. No. 1,431,239; Oct. 10.
- Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Truck side frame. No. 1,434,829; Nov. 7.
- Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Truck-side-frame construction. No. 1,434,830; Nov. 7.
- Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Side-frame and journal-box combination. No. 1,436,632; Nov. 21.
- Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Journal box. No. 1,436,633; Nov. 21.
- Lamont, John A., and A. Walcher, assignor to American Steel Foundries, Chicago, Ill. Forging yokes. No. 1,431,238; Oct. 10.
- Lamont, John A., Chicago, Ill., and L. Richardson, Louisville, Ky., assignors to American Steel Foundries, Chicago, Ill. Equalizing arrangement for six-wheel trucks. No. 1,437,978; Dec. 5.
- Lamont, John A., Chicago, Ill., and L. Richardson, Louisville, Ky., assignors to American Steel Foundries, Chicago, Ill. Six-wheel-truck equalizing arrangement. No. 1,437,979; Dec. 5.
- La Montagne, Arthur J. (See Holmes, P. J., and La Montagne.)
- La Montagne, Ivan, Springfield, Mass. Means for attaching hose supporters to corsets. No. 1,406,677; Feb. 14.
- La Montagne, Patrick P., Bourbonnais, assignor, by mesne assignments, to Pope Machine Company, Kankakee, Ill. Knitting machine. No. 1,435,713; Nov. 14.
- La Montagne, Patrick P., Bourbonnais, assignor, by mesne assignments, to Pope Machine Company, Kankakee, Ill. Knitting-machine needle. No. 1,435,714; Nov. 14.
- La Montagne, Patrick P., Bourbonnais, assignor, by mesne assignments, to Pope Machine Company, Kankakee, Ill. Knitting-machine needle. No. 1,435,714; Nov. 14.
- La Montagne, Patrick P., Bourbonnais, assignor, by mesne assignments, to Pope Machine Company, Kankakee, Ill. Knitting machine. No. 1,435,716; Nov. 14.
- Lamoreux, Leal, and R. J. Boomer, Worthington, Minn. Hitch for power dump wagons. No. 1,408,895; Mar. 7.
- La Motte, Arthur, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Blasting cap. No. 1,424,204; Aug. 1.
- Lamovsěk, Justina. (See Erman, M., and Lamovsěk.)
- Lamp, Arthur W., assignor to W. J. Carter, Cleveland, Ohio. Making brushes. No. 1,415,657; May 9.
- Lamparter, Eugene, Chicago, Ill. Device for inserting rules in type forms. No. 1,403,504; Jan. 17.
- Lampert, Lydia, Chicago, Ill. Column clamp. No. 1,433,830; Oct. 31.
- Lamping, George B., and J. A. Du Laney, Seattle, Wash. Sand distributor for motor vehicles. No. 1,427,535; Aug. 29.
- Lampman, Herman W., Angola, Ind. Lock for automobiles. No. 1,430,239; Sept. 26.
- Lamson Company, The. (See Dumble, Clifford R., assignor.)
- Lamson Company, The. (See Taisey, Fred R., assignor.)
- La Munyon, Herbert W., Cheyenne, Wyo. Portable closet. No. 1,425,391; Aug. 8.
- Lancaster, Edgar T., Palatka, Fla. Apparatus for removing wall paper. No. 1,428,442; Sept. 5.
- Lancaster, Edmund B., Lorena, Tex. Lawn-mower sharpener. No. 1,432,193; Oct. 17.
- Lancaster, George W., assignor to Perfected Window Company, Richmond, Va. Counterbalancing sash for main window sashes. No. 1,407,549; Feb. 21.
- Lancaster, George W., assignor to Perfected Window Company, Incorporated, Richmond, Va. Interlocking swinging sash and casement and lock therefor. No. 1,416,097; May 16.
- Lancaster, Homer H., Portland, Oreg. Thermal vacuum nursing bottle. No. 1,432,344; Oct. 17.
- Lancaster, John H. (See Mason, Ralph K., assignor.)
- Lancaster, Nelly M., Palatka, Fla. Hose supporter. No. 1,416,650; May 16.
- Lancaster, Sidney D. (See Vogt, H. C., Boby, and Lancaster.)
- Lanck, Maximilian. (See Posch, Ludwig, assignor.)
- Lanchester, Frederick W., London, England. Construction and roofings of buildings for exhibitions and like purposes. No. 1,402,077; Jan. 3.
- Lancia & C. (See Zeppigno, Rodolfo, assignor.)
- Land, Charles H., Jr., assignor of one-half to W. H. Wilson, Detroit, Mich. Tractor and trailer coupling mechanism. No. 1,408,101; Feb. 28.
- Land, Charles H., Jr., assignor of one-half to W. H. Wilson, Detroit, Mich. Trailer. No. 1,408,102; Feb. 28.
- Land, Charles H., Jr., assignor of one-half to W. H. Wilson, Detroit, Mich. Trailer. No. 1,409,733; Mar. 14.
- Land, Cincinatus H., Lindale, Ga. Tensioning device for spooling machines. No. 1,432,399; Oct. 17.
- Landau, Louis B. (See Caryl, Harry S., assignor.)
- Landau, Maxwell W. (See Adams, A. M., and Landau.)
- Landback, Charles A., assignor to C. Pardee Works, Perth Amboy, N. J. Tile press. No. 1,440,303; Dec. 26.
- Landenberger, Ralph L., Chicago, Ill. Calculating device. No. 1,439,246; Dec. 19.
- Lander, Samuel, Sutersville, Pa. Toy gun. No. 1,417,392; May 23.
- Lander, Wintworth V., Newton, Mass. Treating wood and other porous material. No. 1,429,288; Sept. 19.
- Landers, Frary & Clark. (See Curtiss, George E., assignor.)
- Landers, Frary & Clark. (See Lamb, J. F., and Hume, assignors.)
- Landers, Frary & Clark. (See Lamb, Joseph F., assignor.)
- Landers, Frary & Clark. (See Smart, Joseph F., assignor.)
- Landers, Frary, and Clark. (See Smith, C. F., and Curtiss, assignors.)
- Landers, Frary & Clark. (See Smith, Herbert M., assignor.)
- Landers, Frary & Clark. (See Warner, Alonzo A., assignor.)
- Landgraf, Charley, and J. Hernacki, Chicago, Ill. Record wiper for phonographs. No. 1,424,023; July 25.

- Landgraf, Frederick K. (See Stafford, B. E. D., and Landgraf.)
- Landgraf, Frederick K., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,410,480; Mar. 21.
- Landgraf, Frederick K., assignor to Flannery Bolt Company, Pittsburgh, Pa. Metal-drilling machine. No. 1,417,181; May 23.
- Landholm, Oscar. (See Johnson, A., and Landholm.)
- Landin, Peter J., Denver, Colo. Phonograph. No. 1,422,453; July 11.
- Landis, Abb L., and J. C. Snodgrass, Nashville, Tenn. Combination wrench and pliers. No. 1,405,232; Jan. 31.
- Landis, Abraham B., Enfield, Pa. Clutch mechanism. No. 1,437,319; Nov. 28.
- Landis, Chester L., Reading, Pa. Needle-shaping tool. No. 1,405,045; Jan. 31.
- Landis, Daniel R., Chicago, Ill. Curtain stretcher. No. 1,403,505; Jan. 17.
- Landis, Daniel R., Chicago, Ill. Curtain stretcher. No. 1,403,506; Jan. 17.
- Landis, Elvin, Massillon, Ohio. Railway crosstie. No. 1,425,104; Aug. 8.
- Landis, Glenn A. (See Starn, Willoughby J., assignor.)
- Landis, Irwin D., assignor to Universal Conveyor Co., South Bend, Ind. Chute-gate-operating mechanism. No. 1,417,611; May 30.
- Landis, Jesse A., Eaton, Ohio. Glare reducer for headlights. No. 1,439,313; Dec. 19.
- Landis Tool Company. (See Stoner, Paul, assignor.)
- Landkammer, Levi, Alexandria, Nebr. Wheelbarrow. No. 1,436,965; Nov. 28.
- Landon, Archer A., et al. (See Sproat, Harry J., assignor.)
- Landon, Chauncey L., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-making machine. No. 1,419,064; June 6.
- Landon, Emmett C., Marion, Ohio. Bricklayer's corner and lead plumb. No. 1,410,481; Mar. 21.
- Landon, W. P., et al. (See Hahn, Frank R., assignor.)
- Landress, Emmanuel I. (See Mouroumtzeff, I., and Landress.)
- Landreth, Clarence P., Philadelphia, Pa. Apparatus for treating sewage or the like. No. 1,412,945; Apr. 18.
- Landriven, Joanny. (See Altwegg, J., and Landriven.)
- Landrum, Francis H., and A. N. Cramer, assignors to The Wedoit Company, Columbus, Ohio. Sterilizing apparatus. No. 1,417,182; May 23.
- Landry, Adolphus H., Lowell, Mass. Harness retractor. No. 1,427,604; Aug. 29.
- Landry, Aldei, assignor to Hemphill Company, Central Falls, R. I. Knitted hosiery. No. 1,413,337; Apr. 18.
- Landry, Aldei, assignor to Hemphill Company, Central Falls, R. I. Split-work knitting machine. No. 1,415,583; May 9.
- Landry, Joseph E., assignor to Landry Manufacturing Company, New Bedford, Mass. Brake for steering wheels. No. 1,435,313; Nov. 14.
- Landry Manufacturing Company. (See Landry, Joseph E., assignor.)
- Laundry, Onesime, New Bedford, Mass. Filling-feeler mechanism for automatic looms. No. 1,420,560; June 20.
- Landsiedel, Harry, Norwood, assignor to The Dalton Adding Machine Company, Cincinnati, Ohio. Adding machine. No. 1,416,363; May 16.
- Landsiedel, Harry, Norwood, assignor to The Dalton Adding Machine Company, Cincinnati, Ohio. Adding machine. No. 1,416,364; May 16.
- Landsiedel, Harry, Norwood, assignor to The Dalton Adding Machine Company, Cincinnati, Ohio. Adding machine. No. 1,428,787; Sept. 12.
- Landsiedel, Harry, Norwood, assignor to The Dalton Adding Machine Company, Cincinnati, Ohio. Adding, calculating, and recording machine. No. 1,430,088; Sept. 26.
- Landsiedel, Harry, Norwood, assignor to The Dalton Adding Machine Company, Cincinnati, Ohio. Multiplying machine. No. 1,439,175; Dec. 19.
- Landsmann, Henry E. A., Hoboken, N. J. Rim and tire construction. No. 1,432,603; Oct. 17.
- Landstra, Dirk S., South Orange, N. J. Vehicle license sign. No. 1,404,868; Jan. 31.
- Landwirtschaftliche Maschinen-Gesellschaft. (See Schröder, Heinrich, assignor.)
- Landwirtschaftliche Maschinen-Gesellschaft. (See Schröder, Johann, assignor.)
- Landzettel, Albert E., Pittsburgh, Pa. Amusement device. No. 1,435,484; Nov. 14.
- Lane, Alfred M., assignor to Monarch Metal Products Company, St. Louis, Mo. Slot closure. No. 1,429,040; Sept. 12.
- Lane, Charles B., Knoxville, Tenn., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,405,522; Feb. 7.
- Lane, Charles J., assignor to C. F. Elwell, London, England. Separating or sorting apparatus. No. 1,422,807; July 11.
- Lane, Edwin B., West Hoboken, N. J. Valve. No. 1,415,249; May 9.
- Lane, Franklin L., assignor to P. B. Yates Machine Company, Beloit, Wis. Chip breaker. No. 1,402,938; Jan. 10.
- Lane, Franklin L., assignor to P. B. Yates Machine Company, Beloit, Wis. Board guide. No. 1,405,599; Feb. 7.
- Lane, Franklin L., and F. R. Weaver, assignors to P. B. Yates Machine Company, Beloit, Wis. Cutter head. No. 1,413,665; Apr. 25.
- Lane, Fred A., Shelburn, Ind. Demountable rim. No. 1,409,734; Mar. 14.
- Lane, George A., Chicago, Ill., assignor to American Meter Company, Incorporated, New York, N. Y. Gas meter. No. 1,431,122; Oct. 3.
- Lane, George S., San Francisco, Calif., assignor, by mesne assignments, to The Westinghouse Air Brake Company, Wilmerding, Pa. Trailer-brake-controlling device. No. 1,412,009; Apr. 4.
- Lane, George S., San Francisco, Calif., assignor, by mesne assignments, to The Westinghouse Air Brake Company, Wilmerding, Pa. Relief valve. No. 1,412,473; Apr. 11.
- Lane, George W., Providence, R. I. Air-intake and priming device. No. 1,434,294; Oct. 31.
- Lane, Harry A., and P. G. Lang, jr., assignors to The Lane-Galloway Conveyor Company, Baltimore, Md. Conveyor. No. 1,436,508; Nov. 21.
- Lane, Henry M., Detroit, Mich. Apparatus for drying cores. No. 1,410,580; Mar. 28.
- Lane, Howard, Ashford, England. Apparatus for carrying out the preparation of catalytic material employed for the promotion of synthetic chemical reactions. No. 1,428,965; Sept. 12.
- Lane, John D., Boston, and J. Macnaughtan, Brookline, assignors to Gordan Machine Company, Boston, Mass. Packaging machine. No. 1,439,966; Dec. 26.
- Lane Manufacturing Company. (See Wallstrom, George P., assignor.)
- Lane, Orlando A., Los Angeles, Calif., assignor to National Airless Tire Company, Reno, Nev. Tire. No. 1,404,459; Jan. 24.
- Lane, Samuel E., assignor of one-half to W. Baker, Santa Ana, Calif. Rod and tool coupling. No. 1,415,658; May 9.
- Lane, Thomas M., Alameda, Calif. Chemical rectifier. No. 1,409,383; Mar. 14.
- Lane, Walter, Holland, Mich. Pneumatic piano player. No. 1,422,275; July 11.
- Lane, Walter, Holland, Mich. Automatic player piano. No. 1,422,276; July 11.
- Lane-Galloway Conveyor Company, The. (See Lane, H. A., and Lang, assignors.)
- Laney, Archie F., Porterville, Calif. Clutch-pedal lock for automobiles. No. 1,439,111; Dec. 19.
- Landair, Ernest L., Landair, Calif. Automobile door. No. 1,416,651; May 16.
- Lang, Charles A., Selma, assignor of one-half to N. D. Hursh, Oakland, Calif. Device for dusting trees with dry sulphur. No. 1,427,743; Aug. 29.
- Lang, Crayton A., Bloomfield, Iowa. Collapsible coop. No. 1,431,745; Oct. 10.
- Lang, E. G., Manufacturing Company, The. (See Niceley, William O., assignor.)
- Lang, Edward M., Portland, Me. Hacksaw. No. 1,434,295; Oct. 31.
- Lang, Ernst. (See Germann, A., and Lang.)
- Lang, Gustave J. (See Rosenthal, L. W., and Lang.)
- Lang, Johan G. V., New York, N. Y. Manufacture of paper bottles. No. 1,415,100; May 9.
- Lang, John, Philadelphia, Pa. Spring wheel. No. 1,432,604; Oct. 17.
- Lang, John C., Minneapolis, Minn. Knitted neck for garments. No. 1,404,305; Jan. 24.
- Lang, Lincoln A., assignor to The Northern Trust Company, trustee, Chicago, Ill. Controlling mechanism. No. 1,414,654; May 2.
- Lang, Niels, Vancouver, British Columbia, Canada. Day-light lamp. No. 1,426,395; Aug. 22.
- Lang, Philip G., jr. (See Lane, H. A., and Lang.)
- Langdale, Rupert H., Cincinnati, Ohio. Spring wheel. No. 1,410,261; Mar. 21.
- Langdon, Forrest L. (See Ashwell, Fred J., assignor.)
- Langdon, William C., Wichita, Kans. Power-operated awning. No. 1,413,596; Apr. 25.
- Lange, Berthold A., St. Louis, Mo. Box joint. No. 1,415,368; May 9.
- Lange, Gustav M. (See Lange, Gustav W. and G. M.)
- Lange, Gustav W., and G. M., Buffalo, assignors to The Fowler and Union Horse Nail Company (Inc.), Tonawanda, N. Y. Conveying apparatus for annealing furnaces and the like. No. 1,420,115; June 20.
- Lange, Henry, Quincy, Ill. Gas burner for coal ovens. No. 1,425,985; Aug. 15.
- Lange, Henry, Quincy, Ill. Combination coal and gas oven. No. 1,429,890; Sept. 19.
- Lange, Jacob, Jackson, Mich. Gate and hinge. No. 1,425,986; Aug. 15.
- Lange, Max E., and T. Norton, assignors to The Warner and Swasey Company, Cleveland, Ohio. Tool holder. No. 1,434,782; Nov. 7.
- Lange, Stanislaw, Philadelphia, Pa. Curtain fixture. No. 1,437,851; Dec. 5.
- Lange, Werner, Berlin-Friedenau, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Ortho-oxymonoazo dyes. No. 1,408,363; Feb. 28.
- Langeberg, Henry, Britton, S. Dak. Gate. No. 1,420,932; June 27.

Alphabetical list of patentees—Continued.

- Langenau, Jacob F., assignor to The Langenau Manufacturing Company, Cleveland, Ohio. Fastening device. No. 1,437,427; Dec. 5.
- Langenau Manufacturing Company, The. (See Langenau, Jacob F., assignor.)
- Langer, Carl, Woolhampton, England. Electrolytic separation of metals. No. 1,414,423; May 2.
- Langer, Gotthold L., assignor to Sticky Fruit Packaging Machine Company, Portland, Oreg. Weighing and packaging machine. No. 1,413,857; Apr. 25.
- Langer, Julius J., New York, N. Y. Lock. No. 1,410,581; Mar. 28.
- Langer, Julius J., assignor to Standard Flexible Conduit Corporation, New York, N. Y. Cable fastening. No. 1,408,519; Mar. 7.
- Langer, Julius J., assignor to Standard Flexible Conduit Corporation, New York, N. Y. Cable fastening. No. 1,410,482; Mar. 21.
- Langer, Max, Charlottenburg, near Berlin, assignor to Siemens & Halske A.-G., Simenstadt, near Berlin, Germany. Telephone system. No. 1,404,306; Jan. 24.
- Langer, Rudolph J., assignor to Franklin Barn Equipment Co., Monticello, Iowa. Feed trough for animal pens. No. 1,413,410; Apr. 18.
- Langerman, Earl, San Francisco, Calif. Illuminated vanity box. No. 1,433,015; Oct. 24.
- Langevin, Orphée, New York, N. Y. Aircraft. No. 1,424,491; Aug. 1.
- Langfeld, Clarence M., Baltimore, Md. Electric-arc striking mechanism. No. 1,407,761; Feb. 28.
- Langford, Atlas C., Jackson, Tenn. Weatherproof window sill. No. 1,427,504; Aug. 29.
- Langford, George E., Washington, D. C. Uniting layers of rubber of unlike character. No. 1,402,872; Jan. 10.
- Langford, James E., Kin Kin, Cooran, Queensland, Australia. Fireplace. No. 1,406,037; Feb. 7.
- Langford, Jeremiah E., Jr., Salt Lake City, Utah. Railway tie. No. 1,431,469; Oct. 10.
- Langford, Robert H., Springfield, Tenn. Shipping device. No. 1,421,964; July 4.
- Langhaar, Louis, Cincinnati, Ohio. Ball bearing. No. 1,423,666; July 25.
- Langhard, Johann K., assignor to Fredriksstad Elektromiske Fabriker A/S, Fredriksstad, Norway. Manufacture of perborates. No. 1,408,364; Feb. 28.
- Langhorne, Catherine M., Plainfield, N. J. Wall fixture. No. 1,426,574; Aug. 22.
- Langlais, Archie, Los Angeles, Calif. Hair cutter. No. 1,430,512; Sept. 26.
- Langland, Lambert H., Windom, Minn. Combination rolling cutter and shoe furrow opener for corn planters. No. 1,422,454; July 11.
- Langley, James H., Long Beach, Calif. Pneumatic control system. No. 1,423,043; Sept. 12.
- Langley, John W., et al. (See Barton, Charles N., assignor.)
- Langley, William E. (See Humason, G. A., and Langley.)
- Langwack, Roy E., Minneapolis, Minn. Safety appliance. No. 1,418,720; June 6.
- Langmeier, William, St. Louis, Mo. Indicator and caliper gauge for cane mills. No. 1,421,504; July 4.
- Langmuir, Irving, Schenectady, N. Y., assignor to General Electric Company. Electron-discharge apparatus. (Reissue.) No. 15,278; Jan. 31.
- Langmuir, Irving, Schenectady, N. Y., assignor to General Electric Company. Wireless signaling system. (Reissue.) No. 15,495; Nov. 21.
- Langrock, Joseph H., New York, N. Y. Doll. No. 1,433,463; Oct. 24.
- Langs, Renel W. (See Forler, A. N., and Langs.)
- Langsch, Albert. (See Matuschak, A., and Langsch.)
- Langston, Frederick A., and G. A. Hoard, Chicago, Ill. Hinge. No. 1,416,039; May 16.
- Langston, Robert E., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Apparatus for purifying and filtering liquids. No. 1,407,762; Feb. 28.
- Langston, Robert E., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Filtering apparatus. No. 1,407,763; Feb. 28.
- Langton, Vera F., and J. J. Underwood, New York, N. Y. Print-washing device. No. 1,417,077; May 23.
- Langworthy, Lyman B., Chicago, Ill. Concrete pile and wall panel. No. 1,430,820; Oct. 3.
- Langworthy, Mitchell, Spokane, Wash. Surgical saw. No. 1,417,669; May 30.
- Lanham Cotton Cultivator Co. (See Hughes, B. I., Jr., Dickey, and Catts, assignors.)
- Lanham, Robert F., and A. V. Shull, Laurel, Miss. Reversing mechanism. No. 1,426,575; Aug. 22.
- Lanier, Amos F., Worcester, Mass., assignor, by mesne assignments, to Hi-Lo-Jack Company, Jack. No. 1,426,201; Aug. 15.
- Lannigan, Stephen J., New York, N. Y. Baby bed and crib. No. 1,414,027; Apr. 25.
- Lanning, Charles D., Boston, Mass. Mobile support for suction cleaner apparatus. No. 1,405,924; Feb. 7.
- Lankheet, Sander, Hamilton, Mich. Brace. No. 1,428,484; Sept. 5.
- Lankheet, Sander, Hamilton, Mich. Elevator. No. 1,428,485; Sept. 5.
- Lanning, James K. (See Molloy, Daniel E., assignor.)
- Lanning, Oren N., Barnard, Mo. Lifting mechanism for aerial vessels. No. 1,439,425; Dec. 19.
- Lannon, Franklin P., Jr., Sand Springs, Okla., assignor to American Smelting and Refining Company, New York, N. Y. Process and apparatus for treating zinc dust. No. 1,412,621; Apr. 11.
- Laoué, Maurice Z., Ashkum, Ill. Antiskid device. No. 1,437,761; Dec. 5.
- Lauphler, Charles H., Springfield, Ill. Method and apparatus for determining the calorific value of gases. No. 1,432,472; Oct. 17.
- Lansdown, Samuel C. and Philip Magnus, North Fitzroy, near Melbourne, Victoria, Australia. Treatment and utilization of scrap or waste leather. No. 1,405,600; Feb. 7.
- Lansill, John S., assignor to Armstrong Cork Company, Lancaster, Pa. Heel gauge. No. 1,423,859; July 25.
- Larsing, Henry L., and J. R. Kohls, San Francisco, Calif. Electric flower lamp. No. 1,419,152; June 13.
- Lansing, Richard H., Chicopee Falls, Mass. Fabric-working mechanism. No. 1,425,987; Aug. 15.
- Lansing, Richard H., Chicopee Falls, Mass. Conveyer. No. 1,425,988; Aug. 15.
- Lauston Monotype Machine Company. (See Gray, Robert, assignor.)
- Lauston Monotype Machine Company. (See Indahl, Mauritz C., assignor.)
- Lantry, Frank B., South Easton, Mass. Candy-wrapping machine. No. 1,418,659; June 6.
- Lantz, Amos B., Valparaiso, Ind. Automatic nonrigid hayfork. No. 1,434,710; Nov. 7.
- Lantz, Howard, Fallston, Md. Traction attachment for motor vehicles. No. 1,435,863; Nov. 14.
- Lantz, John L., I. T. Ansbaugh, and F. E. Loutzenhiser, Ada, Ohio. Wire reel. No. 1,436,043; Nov. 21.
- Lanz, Firm of Heinrich. (See Schroeder, Karl, assignor.)
- Lanzkroner, Leon, New York, N. Y. Refrigerator. No. 1,440,304; Dec. 26.
- Lanzo, Joseph, Milwaukee, Wis. Crate. No. 1,431,312; Oct. 10.
- Lape, John H., Danville, Ill. Clipper. No. 1,412,661; Apr. 11.
- La Pearl, James H., Kokomo, Ind. Window-shade-roller holder and adjuster. No. 1,411,174; Mar. 28.
- Lapham, Louis W., Junction City, Kans. Show case. No. 1,435,013; Nov. 7.
- Lapham, Ralph E., Oakland, Calif. Balancing means for centrifugal machines. No. 1,438,768; Dec. 12.
- La Pierre, Julian B. (See Erickson, Julius, assignor.)
- La Pierre, Julian B., Chicago, Ill. Steering wheel. No. 1,403,968; Jan. 17.
- Laplante & Dunklin Printing Company. (See Beatty, H. B., and Johnson, assignors.)
- La Point, Fred, Wheeling, W. Va. Table clamp. No. 1,425,868; Aug. 15.
- Lapointe, Francis J., Ann Arbor, Mich. Attachment for broaching machines. No. 1,421,014; June 27.
- Lapointe, Francis J., Ann Arbor, Mich. Milk-bottle cover and cap remover. No. 1,426,396; Aug. 22.
- Lapointe, Francis J., Ann Arbor, Mich. Manually-operated broaching machine. No. 1,434,711; Nov. 7.
- Lapointe, J. N., Co. (See Inforati, Matteo E., Jr., assignor.)
- Lapointe Machine Tool Company. (See Blanchard, Harry E., assignor.) (Reissue.)
- Lapointe Machine & Tool Company. (See Bonnaffe, Oliver W., assignor.)
- La Pointe, William B., Columbus, Ohio. Switch and fuse box. No. 1,433,510; Oct. 24.
- Lapp, Grover W., Le Roy, N. Y. Producing clay bodies. No. 1,424,924; Aug. 8.
- Lapp Insulator Company. (See Lapp, John S., assignor.)
- Lapp, John, Rochester, N. Y. Method and machine for forming impressions in plastic articles. No. 1,407,550; Feb. 21.
- Lapp, John S., assignor to Lapp Insulator Company, Le Roy, N. Y. Lathe. No. 1,427,213; Aug. 29.
- Lappen, James E., Selkirk, Manitoba, Canada. Machine for shredding and washing fibrous stock. No. 1,413,597; Apr. 25.
- La Prieur, Yves P. G. (See Bonneau, E. E. J., La Prieur, and Derrien.)
- Lapworth, Arthur, Manchester, England. Manufacture and production of *n-monoalkyl* derivatives of aromatic compounds. No. 1,431,470; Oct. 10.
- Larché, Jean E., Paris, France. Pump with permeable piston for multiple purposes. No. 1,410,530; Mar. 21.
- Larcher, Albert J., Harvey, Ill., assignor to Wyman-Gordon Company, Worcester, Mass. Forging process and apparatus. No. 1,403,696; Jan. 17.
- Larcher, Albert J., Harvey, Ill., assignor to Wyman-Gordon Co., Worcester, Mass. Forging method and apparatus. No. 1,434,215; Oct. 31.
- Lard, Allan E., Washington, D. C., assignor to The Metallic Shaft Company, Wilmington, Del. Tee. No. 1,410,483; Mar. 21.
- Lard, Allan E., Washington, D. C., assignor to The Metallic Shaft Company, Wilmington, Del. Shaft for golf clubs and the like. No. 1,426,202; Aug. 15.
- Large, Frederick E., Syracuse, N. Y. Automobile lock. No. 1,436,966; Nov. 28.
- Largman, Abraham, Philadelphia, Pa. Key case. No. 1,403,087; Jan. 10.
- Larimore, John W., Mountain Grove, Mo. Oil burner. No. 1,403,421; Jan. 10.

Alphabetical list of patentees—Continued.

- Larkin, John J. (See Little, John, assignor.)
- Larkin, John J., St. Louis, Mo., and R. L. Gordon, assignors to Bell Pump Company, Bartlesville, Okla. Oil-well pump. No. 1,423,860; July 25.
- Larkin, Joseph B., Palo Alto, Calif. Lunch-counter ticket. No. 1,408,103; Feb. 28.
- Larkin, Joseph B., Palo Alto, Calif. Check holder. No. 1,421,262; Jun. 27.
- Larkin, Walter, Norristown, assignor to Fidelity Machine and Manufacturing Co., Philadelphia, Pa. Dogless attachment for ribbers. No. 1,433,384; Oct. 24.
- Larmonth, John H., Montreal, Quebec, Canada, assignor of one-half to V. C. Armstrong, Hackensack, N. J. Anticreeper for railway rails. No. 1,430,240; Sept. 26.
- Larned, William A., Summit, N. J., assignor to The Dayton Steel Racquet Company, Dayton, Ohio. Elastic metal stringing, and making the same. No. 1,422,993; July 18.
- Larner, Chester W., Philadelphia, Pa. Operating mechanism. No. 1,408,611; Mar. 7.
- Larner, Chester W., Cleveland, Ohio. Governor-operated pressure regulator. No. 1,422,212; July 11.
- La Roche, Joseph P., Chicago, Ill. Music roll, purse, and carrying bag. No. 1,426,485; Aug. 22.
- La Rock, John, Chicago, Ill. Machine tool. No. 1,420,323; June 20.
- Larose, Louis P., Worcester, Mass. Hydrometer. No. 1,410,929; Mar. 28.
- La Rose, William F., Rochester, N. Y. Vapor burner. No. 1,434,127; Oct. 31.
- Larrabee, Clinton E., Binghamton, N. Y., assignor to The International Time Recording Company of New York. Time recorder. No. 1,403,040; Jan. 10.
- Larrison, Samuel P., and S. S. Sadler, Pierson, Iowa. Gas burner. No. 1,430,821; Oct. 3.
- Larsen, Arnold, Indianapolis, Ind. Oil burner. No. 1,403,697; Jan. 17.
- Larsen, Arnold, assignor to The William Gent Vending Machine Company, Cleveland, Ohio. Weighing machine. No. 1,412,184; Apr. 11.
- Larsen, Berdie A., Pasadena, Calif. Envelope. No. 1,424,024; July 25.
- Larsen, Charles F., Chicago, Ill. Gas lighter. No. 1,416,098; May 16.
- Larsen, Edward A., Larkspur, Calif., assignor to himself, J. D. Whalen, A. J. Bowie, and E. N. Richardson, trustees, San Francisco, Calif. Mold for casting concrete hulls. No. 1,416,844; May 23.
- Larsen, Erma O., et al., executors. (See Larsen, Leon V.)
- Larsen, Herman and P., Lake View, Mich. Ice fishing indicator. No. 1,406,038; Feb. 7.
- Larsen, Howard R., Milwaukee, Wis. Toy. No. 1,425,869; Aug. 15.
- Larsen, Jacob C. (See Whitridge, J. C., and Larsen.)
- Larsen, Jens A., Copenhagen, Denmark. Pump. No. 1,437,664; Dec. 5.
- Larsen, Jens O., St. Louis, Mo. Carton. No. 1,427,828; Sept. 5.
- Larsen, Lee, Tampico, Mexico. Combined water jet and suction apparatus and means for operating the same. No. 1,423,436; July 18.
- Larsen, Lee, Tampico, Mexico. Excavating machine of the rotary type. No. 1,428,788; Sept. 12.
- Larsen, Leon V., deceased, Paris, Tex., by M. F. Larsen, Paris, Tex., and E. O. Larsen, Chicago, Ill., executors. Foot-margin regulator and indicator attachment for typewriting machines. No. 1,407,071; Feb. 21.
- Larsen, Louis G., assignor, by mesne assignments, to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Automatic stop mechanism for talking machines. No. 1,405,046; Jan. 31.
- Larsen, Louis G., assignor, by mesne assignments, to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Automatic stop. No. 1,430,563; Oct. 3.
- Larsen, Ludvig, Chicago, Ill. Snap switch. No. 1,417,751; May 30.
- Larsen, May F., et al., executors. (See Larsen, Leon V.)
- Larsen, Olaf. (See Valerius, T. L., and Larsen.)
- Larsen, Oscar E., et al. (See Riley, George, assignor.)
- Larsen, Otto H., Chicago, Ill. Dental instrument. No. 1,408,520; Mar. 7.
- Larsen, Peter. (See Larsen, Herman and P.)
- Larsh, Everett P., assignor, by mesne assignments, to The Duro Pump and Manufacturing Company, Dayton, Ohio. Driving means for pumps and the like. No. 1,433,016; Oct. 24.
- Larsh, James E., Chevlot, assignor to The Folsdick Machine Tool Company, Cincinnati, Ohio. Belt-shifting mechanism. No. 1,414,290; Apr. 25.
- Larson, Albert. (See Irons, G. C., and Larson.)
- Larson, Albert L. (See Aldrich, A., and Larson.)
- Larson, Albert W. (See Carlson, C. J., and Larson.)
- Larson, Alfred T. (See Lamb, A. B., and Larson.)
- Larson, Anton, et al. (See Burlingame, Albert C., assignor.)
- Larson, Arthur E., Chicago, Ill. Toy adding machine. No. 1,414,655; May 2.
- Larson, Carl A. (See Wendt, Gustave A., assignor.)
- Larson, Charles, Burlington, Iowa. Saw handle and blade connection. No. 1,405,925; Feb. 7.
- Larson, Charles O., DeKalb, Ill. Truck tongue mounting. No. 1,431,013; Oct. 3.
- Larson, Edward. (See Jernberg, C. R., Metzger, and Larson.)
- Larson, Gus, assignor to H. Hogg, New York, N. Y. Bolt-locking device. No. 1,414,140; Apr. 25.
- Larson, Gustav L., Lyngdal, near Farsund, Norway. Safety nut. No. 1,421,090; June 27.
- Larson, Helen O., Los Angeles, Calif. Cooker. No. 1,412,360; Apr. 11.
- Larson, Henry T., Becker, Minn. Clevis. No. 1,434,296; Oct. 31.
- Larson, Hiram A., assignor of one-third to A. J. Rahn and one-third to N. P. Petersen, Manitowoc, Wis. Coupling expander. No. 1,418,721; June 6.
- Larson, Hokan L., Sardis, British Columbia, Canada. Flax-desecding machine. No. 1,408,896; Mar. 7.
- Larson, John M., Chicago, Ill. Regulator. No. 1,404,776; Jan. 31.
- Larson, John M., and J. F. Sievers, Downey, Idaho. Lens guard and dimmer. No. 1,420,848; June 27.
- Larson, John W., Escanaba, Mich. Bucket-loading hook. No. 1,418,004; May 30.
- Larson, Lars J., Seattle, Wash. Door lock. No. 1,416,365; May 16.
- Larson, Lawrence O., Minneapolis, Minn. Line fastener. No. 1,405,423; Feb. 7.
- Larson, Louis. (See Kitzmiller, George M., assignor.)
- Larson, Nels, Chicago, Ill. Toy. No. 1,437,320; Nov. 28.
- Larson, Nils G., Attleboro, Mass. Wrench. No. 1,419,391; June 13.
- Larson, Olaf, Oakland, Calif. Lumber jack. No. 1,411,044; Mar. 28.
- Larson, Olaff A., Butte, Mont. Candle holder. No. 1,424,573; Aug. 1.
- Larson, Peter S., Beloit, Wis. Spring motor. No. 1,408,365; Feb. 28.
- Larson, Peter S., Beloit, Wis. Clockwork. No. 1,408,366; Feb. 28.
- Larson, Robert, Vancouver Island, British Columbia, Canada. Undercutting-saw support. No. 1,424,415; Aug. 1.
- Larson, William F. (See Amsbury W. N., and Larson.)
- Larsson, Anders E., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Wheel-dressing mechanism. No. 1,424,765; Aug. 8.
- Larsson, Ernst. (See Lincoln, E. S., and Larsson.)
- Larsson, Ernst, assignor to The Ohio Brass Company, Mansfield, Ohio. Coupling support. No. 1,401,990; Jan. 3.
- Larsson, Ernst, assignor to The Ohio Brass Company, Mansfield, Ohio. Vehicle coupling. No. 1,430,659; Oct. 3.
- Larsson, Ernst A., Älvdalen, Sweden. Means for moving cinematographic films. No. 1,406,876; Feb. 14.
- Larzelere, Charles F. (See Hodges, W. E., and Larzelere.)
- Lasbury, Vincent, Griggsville, Ill. Camp stove. No. 1,420,043; June 20.
- La Selva, Rocco, New York, N. Y. Circuit closer for vehicle signals. No. 1,409,735; Mar. 14.
- Lasevicius, Frank. (See Waitch, John, assignor.)
- Lash, Eber M. (See Wheeler, John A., assignor.)
- Lash, Robert L., assignor of two-fifths to H. L. Kanter, Norfolk, Va. Automatic valve for flush tanks. No. 1,420,713; June 27.
- Lashar, Thomas B. (See Lee, R. T., and Lashar.)
- Lasher, Hiram, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,409,189; Mar. 14.
- Lasher, Osmer J., Waterbury, Conn. Meat display case. No. 1,426,747; Aug. 22.
- Laska, August L., Offenbach-on-the-Main, and H. H. C. Prillwitz, assignors to Chemische Fabrik Griesheim-Elektron, Frankfurt-on-the-Main, Germany. New liquid phosphoric esters and making same. No. 1,425,392; Aug. 8.
- Laska, August L., Offenbach-on-the-Main, and H. H. C. Prillwitz, assignors to Chemische Fabrik Griesheim-Elektron, Frankfurt-on-the-Main, Germany. New mixed phosphoric esters and making same. No. 1,425,393; Aug. 8.
- Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Carriage-operating mechanism. No. 1,423,437; July 18.
- Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Type carrier. No. 1,423,438; July 18.
- Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Sector control for tabulating machines. No. 1,423,439; July 18.
- Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Rotary selector or analyzer. No. 1,432,345; Oct. 17.
- Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Stop motion for card-tabulating machines. No. 1,438,536; Dec. 12.
- Lasker, William W., Brooklyn, assignor, by mesne assignments, to Powers Accounting Machine Company, New York, N. Y. Automatic tabulator accounting machine. No. 1,438,924; Dec. 12.
- Laskowitz, Isidor B., New York, N. Y. Automatic safety gas shut-off. No. 1,418,082; May 30.
- Laskowitz, Michael. (See Vollmer, C. D., and Laskowitz.)
- La Société Anonyme de Produits Chimiques Etablissements Malétra. (See Trevoux, Laurent E. M., assignor.)

Alphabetical list of patentees—Continued.

- La Societe Anonyme du Moteur L. Thomas. (See Thomas, Louis V., assignor.)
- La Societe Astra. (See Kapferer, Henri, assignor.)
- La Societe Bournisien, Beau et Cie. (See Homolle, Robert, assignor.)
- La Societe des Etablissements E. Feuillette. (See Feuillette, Emile, assignor.)
- La Societe dite: Etablissements L. Rosengart Siège Social. (See Rosengart, Sylvain, assignor.)
- La Societe dite S. T. A. R. (Système de Traction Auto-regulator). (See Cumont, Fernand, assignor.)
- La Societe Duten, Doublet & Cie. (See Duten, Maurice, assignor.)
- La Societe "Genty, Hough & Cie. (Société en nom Collectif et en commandite simple." (See Morin, Henri, assignor.)
- La Societe La Cellophane. (See Brandenberger, Jacques E., assignor.)
- La Societe La Metallurgique Electrique. (See Vedovelli, Edouard, assignor.)
- La Societe Metallurgique Du Frayol. (See Du Nolly, Hector, assignor.)
- La Societe Pichard freres, siege social. (See Pichard, Charles, assignor.)
- Lassagne, Victor F., Chicago, Ill. Tractor disk harrow. No. 1,402,236; Jan. 3.
- Lassen, Peter, Ocean Falls, British Columbia, Canada. Engine valve mechanism. No. 1,426,486; Aug. 22.
- Lassiter, Charles H., Valentine, Tex. Concrete-casing-making machine. No. 1,430,451; Sept. 26.
- Lassiter, Columbus K., and J. Kindervater, New York, N. Y. Making return bends. No. 1,417,393; May 23.
- Lassiter, Columbus K., and J. Kindervater, New York, N. Y. Die for making return bends. No. 1,417,394; May 23.
- Lassiter, Columbus K., and J. Kindervater, New York, N. Y. Connecting pipes and return bends. No. 1,417,395; May 23.
- Lassiter, Columbus K., and J. Kindervater, New York, N. Y. Return bend and method and apparatus for making same. No. 1,417,396; May 23.
- Last, Rijkent, Enkhuizen, Netherlands. Machine for ramming oval concrete pipes. No. 1,410,021; Mar. 21.
- La Sté Ame "La Cellophane." (See Brandenberger, Jacques E., assignor.)
- Laswell, Vernie E., assignor of one-half to W. P. Hurt, Talladega, Ala. Engine water pump. No. 1,436,661; Nov. 28.
- Latchem, George, Marked Tree, Ark. Door bell and burglar alarm. No. 1,421,091; June 27.
- Latham, Albert, Beverly, Mass., assignor to American Button & Fastener Co., Augusta, Me. Machine for operating upon fasteners. No. 1,410,560; Mar. 28.
- Latham, Albert, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for making nail strings. No. 1,415,936; May 16.
- Latham, Warren, Spokane, Wash. Apparatus for molding ice cakes. No. 1,428,892; Sept. 12.
- Lathrop, Harry D. (See Paulson, Walter H., assignor.)
- Lathrop, Harry D., Chicago, Ill. Spray head. No. 1,408,521; Mar. 7.
- Latimer, James H. (See Kesterson, M. W., and Latimer.)
- Latimer, John W. (See Pease, George S., assignor.)
- Latimer, Roy S., Troy, assignor to T. H. Latimer, Saratoga Springs, N. Y. Folding machine. No. 1,416,099; May 16.
- Latimer, Thomas H. (See Latimer, Roy S., assignor.)
- Latimore, John, Utica, N. Y. Garment pattern. No. 1,417,612; May 30.
- La Tour, Lee, and A. F. Munnell, assignors to Progress Roller Company, Omaha, Neb. Apparatus for forming inking rollers. No. 1,420,849; June 27.
- Latour, Marius C. A., Paris, France. Audion or lamp relay or amplifying apparatus. No. 1,405,523; Feb. 7.
- Latour, Marius C. A., Paris, France. Telephone. No. 1,421,015; June 27.
- Latsch, Otto, Oxford, Ala., assignor of one-half to G. F. Hoffman, Philadelphia, Pa. High slip-draft apparatus for spinning cotton rovings. No. 1,421,965; July 4.
- Latschaw, Leonard J., assignor to Anderson Foundry and Machine Company, Anderson, Ind. Auxiliary fuel tank for internal-combustion engines. No. 1,413,037; Apr. 18.
- Latta, Charles, St. Louis, Mo. Packing ring. No. 1,418,582; June 6.
- Latta, Emmet G., Syracuse, N. Y. Typewriting machine. No. 1,410,764; Mar. 28.
- Latta, Louis M., Indianola, Iowa. Toy circus. No. 1,405,047; Jan. 31.
- Lattanzi, Ferdinando. (See Avolio, V., and Lattanzi.)
- Lattig, Jacob W., Bethlehem, Pa., and C. L. Goodrum, assignors to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone-exchange system. No. 1,438,959; Dec. 19.
- Lattig, Jacob W., Bethlehem, Pa., and C. L. Goodrum, assignors to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone-exchange system. No. 1,438,960; Dec. 19.
- Lau, Frederick J., assignor to Worcester Metal Goods Co., Waterbury, Conn. Bag fastener. No. 1,405,524; Feb. 7.
- Lau, Wesley E. C., Klemme, Iowa. Phonographic sound box. No. 1,419,505; June 13.
- Laubenheimer, Walter J., Chicago, Ill. Drafting device. No. 1,416,652; May 16.
- Lauber Handle Manufacturing Co., The. (See Lauber, William, assignor.)
- Lauber, William, assignor to The Lauber Handle Manufacturing Co., Milwaukee, Wis. Tool handle. No. 1,425,598; Aug. 15.
- Laucks, Irving F., Seattle, Wash., assignor of one-half to F. C. Greene, Denver, Colo. Varnish and making same. No. 1,413,666; Apr. 25.
- Laue, Frederick H., Avoca, Wis. Hoisting apparatus. No. 1,408,522; Mar. 7.
- Lauer, Julian Q. (See Giles, Pleasant B., assignor.)
- Lauer, Karl, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Measuring instrument. No. 1,405,926; Feb. 7.
- Lauer, Karl, Karlskoga, Sweden, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Measuring instrument. No. 1,405,711; Feb. 7.
- Laur, Karl, Karlskoga, Sweden, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Caliper gauge. No. 1,409,870; Mar. 14.
- Laufer, William A., and A. Kufta, Paterson, N. J. Sash lock. No. 1,429,891; Sept. 19.
- Laufer, Frank P. (See Kempton, W. H. Gudge, and Laufer.)
- Laughlin, Edward A., Port Arthur, Tex. Building construction. No. 1,423,949; July 25.
- Laughlin, Elmyr A., Oregon, Ill. Car mounting. No. 1,402,625; Jan. 3.
- Laughlin, Elmyr A., Oregon, Ill. Car bolster. No. 1,407,551; Feb. 21.
- Laughlin, Elmyr A., Oregon, Ill. Variable-load brake system. No. 1,437,852; Dec. 5.
- Laughlin, Homer Jr. (See Breden, Charles G., assignor.)
- Laughlin, Myron P., Lowell, Mass., assignor to Research Corporation, New York, N. Y. Self-cleaning precipitator. No. 1,412,248; Apr. 11.
- Laughton, Harold, Sutton Coldfield, England. Power-transmission belt gearing. No. 1,433,958; Oct. 31.
- Lauder, J. A., & Company. (See Launder, John A., assignor.)
- Lauder, John A., Newcastle-upon-Tyne, England. Garment-displaying device. No. 1,410,930; Mar. 28.
- Lauder, John A., assignor to J. A. Launder & Company, Limited, Newcastle-upon-Tyne, England. Garment hanger and the like. No. 1,434,712; Nov. 7.
- Laurency, Guillaume C., and M. Vigier, London, England. Process of and apparatus for preparing textile fibers for spinning. No. 1,422,581; July 11.
- Laurent, Louis E., New York, N. Y., and J. C. Patterson, East Orange, N. J. Conveying apparatus. No. 1,438,183; Dec. 12.
- Laurent, Thomas, assignor to National Pneumatic Company, New York, N. Y. Fluid-pressure-actuated motor. No. 1,412,878; Apr. 18.
- Laurior, Ruben C., and F. Monette, Montreal, Quebec, Canada. Conductor's checking blank and receipt. No. 1,408,523; Mar. 7.
- Laury, Napoleon A., New York, N. Y. Apparatus for the production of sodium sulphate. No. 1,435,930; Nov. 21.
- Lauson, John Manufacturing Company, The. (See Edens, Henry N., assignor.)
- Laussucq, Henri P. L., Reading, assignor to Birdsboro Steel Foundry & Machine Company, Birdsboro, Pa. Vulcanizing press. No. 1,412,119; Apr. 11.
- Laussucq, Henri P. L., assignor to H. Lippincott and A. J. Major, as receivers of Camden Iron Works, Camden, N. J. Controlling mechanism for fluid-operated tools. No. 1,435,138; Nov. 7.
- Lautenschlager, William F., Cincinnati, Ohio, assignor to L. Muther, Newton, Mass. Slitting mechanism for folding machines. No. 1,431,590; Oct. 10.
- Lautenschlager, William F., Cincinnati, Ohio, assignor to The Peerless Machinery Company, Boston, Mass. Perforating machine. No. 1,434,060; Oct. 31.
- Lautenschlager, William F., Cincinnati, Ohio, assignor to L. Muther, Newton, Mass. Friction clutch. No. 1,439,314; Dec. 19.
- Lauterbach, Otto J., New Orleans, La. Ink-saving device for cotton-printing machines. No. 1,433,385; Oct. 24.
- Lauterbur, Frank X., Sidney, Ohio. Safety clutch device for mixers. No. 1,422,213; July 11.
- Lauterbur, Frank X., Sidney, Ohio. Dough-molding machine. No. 1,432,874; Oct. 24.
- Lauterbur, Frank X., Sidney, Ohio. Portable dough mixer. No. 1,434,617; Nov. 7.
- Lauterbur, Frank X., Sidney, Ohio. Flour weighing, blending, elevating, and sifting machine. No. 1,434,618; Nov. 7.
- Lauth, Clarence H., London, England. Electric cooking or heating vessel. No. 1,415,456; May 9.
- Lauth, Clarence H., London, England. Electrically-heated liquid heater. No. 1,415,457; May 9.
- Lauth, Jacob, Chicago, Ill. Clutch mechanism. No. 1,405,927; Feb. 7.
- Lautz, Adam, East St. Louis, Ill. Automatic oil cup for air pumps. No. 1,402,939; Jan. 10.
- Laux, Richard, Fort Wayne, Ind. Lapel button. No. 1,426,487; Aug. 22.
- Lavagetto, J. T. L., Portland, Oreg. Mattress. No. 1,432,875; Oct. 24.
- Lavallee, Emmanuel, Pawtucket, R. I. Swell check for looms. No. 1,408,010; Feb. 28.
- Lavallée, Joseph A. (See Green, J. R., Williams, and Lavallée.)

Alphabetical list of patentees—Continued.

- Lavallee, Joseph O. W., assignor to Caron Brothers, Montreal, Quebec, Canada. Internal-combustion engine. No. 1,437,428; Dec. 5.
- Lavarack, Frederick C., Montclair, N. J., assignor to Railroad Accessories Corporation, New York, N. Y. Semaphore blade. No. 1,426,300; Aug. 15.
- Lavarello, Prospero in Giuseppe, Genoa, Italy. Apparatus for regulating fluid and gas-pressure between gas meter and gas consumption. No. 1,425,105; Aug. 8.
- Lavaud, Dimitri S., otherwise known as D. S. de Lavaud, Toronto, Ontario, Canada; B. F. Clark, London, and C. W. Baines, Melton Mowbray, assignors to The Metallurgical Plant Construction Company Limited, Manchester, England, a Company of Great Britain. Apparatus for use in tempering and annealing. No. 1,420,379; June 20.
- La Veck, Louis. (See Horwitt, P. H., and La Veck.)
- Laveen, Milton, Chicago, Ill. Knitting machine. No. 1,425,106; Aug. 8.
- Lavérán, François I., Toulouse, France. Necktie holder. No. 1,438,247; Dec. 12.
- La Vercombe, Harley H., Detroit, Mich. Means for testing emery wheels. No. 1,435,314; Nov. 14.
- Lavezzi, Samuel J., Chicago, Ill. Box spring for beds and the like. No. 1,412,879; Apr. 18.
- Lavier, Thomas, Jr., et al. (See Keller, Camden C., assignor.)
- Lavietes, Abraham H., Shelton, Conn. Basket. No. 1,408,011; Feb. 28.
- La Vigne, George, Grand Rapids, Mich. Belt-cutting machine. No. 1,435,315; Nov. 14.
- La Vigne, George J., New Haven, Conn. Tire-chain retainer. No. 1,421,966; July 4.
- Lavigne, Joseph P., Detroit, Mich., and D. J. Murnane, Jr., Chicago, Ill. Fastening device. No. 1,402,775; Jan. 10.
- Lavigne, Napoleon G., Virginia, Minn. Oxyacetylene lighter. No. 1,416,845; May 23.
- Lavimodière, Felix, Montreal, Quebec, Canada. Measuring instrument. No. 1,434,900; Nov. 7.
- Lavine, Joseph E., Fitchburg, Mass. Trap. No. 1,408,612; Mar. 7.
- Lavoie, Joseph P., Montreal, Quebec, Canada. Cross-head. No. 1,424,925; Aug. 8.
- Lavoie Joseph P., Montreal, Quebec, Canada. Automobile rear axle and axle casing. No. 1,437,186; Nov. 28.
- Law, Charles R., Mansfield, La. Conveyer-chain cleat. No. 1,439,967; Dec. 26.
- Law, Stanley W., St. Paul, Minn. Variable-resistance unit. No. 1,408,953; Mar. 7.
- Lawhead, James W., Wilmington, Ohio. Air pump. No. 1,425,663; Aug. 15.
- Lawhead, Lester A., St. Joseph, Mo. Railway-crossing signal. No. 1,418,660; June 6.
- Lawler, James J., Pelham, N. Y. Thermostatic heat-controlling regulator. No. 1,415,584; May 9.
- Lawler, James T. (See Smith, Hunter, Jr., assignor.)
- Lawley, Henry V., Kensington, London, England. Printing of photographic films. No. 1,413,593; Apr. 25.
- Lawley, Henry V., London, England. Apparatus for the printing of photographic films. No. 1,435,245; Nov. 14.
- Lawlor, James M., assignor of one-half to T. H. Cutsinger, Topeka, Kans. Optician's tool. No. 1,415,659; May 9.
- Lawlor, Simeon C., Chicago, Ill. Mop wringer. No. 1,428,893; Sept. 12.
- Lawlor, William T., Jersey City, N. J. Switch-beater cover. No. 1,424,656; Aug. 1.
- Lawrence Aero Engine Corporation. (See Lawrence, Charles L., assignor.)
- Lawrence Aero Engine Corporation. (See Wertzheiser, Joseph, assignor.)
- Lawrence, Charles L., Bay Shore, Long Island, N. Y., assignor to Lawrence Aero Engine Corporation. Big end construction for motors. No. 1,404,617; Jan. 24.
- Lawrence, Charles L., Bay Shore, Long Island, N. Y., assignor to Lawrence Aero Engine Corporation. Big end construction for motors. No. 1,404,618; Jan. 24.
- Lawrence, Albert A., assignor to J. Fox, Regina, Saskatchewan, Canada. Dry-pickling seed grain. No. 1,409,144; Mar. 7.
- Lawrence, Almon R., Quincy, assignor to Engineering Development Company, Boston, Mass. Heat interchanger. No. 1,429,149; Sept. 12.
- Lawrence, Arthur H., assignor to J. B. Brooks and Company Limited, Birmingham, England. Cycle, motor-cycle, and analogous saddle. No. 1,427,484; Aug. 29.
- Lawrence Carrier Corporation. (See Woodward, Alva W., assignor.)
- Lawrence, Edward C., Kansas City, Mo. Display stand. No. 1,406,464; Feb. 14.
- Lawrence, Edward E., Jamaica, assignor to Loose-Wiles Biscuit Company, Long Island City, N. Y. Receptacle-filling apparatus. No. 1,413,338; Apr. 18.
- Lawrence, Edward E., Jamaica, assignor to Loose-Wiles Biscuit Company, Long Island City, New York, N. Y. Mechanism for depositing coating upon cakes, etc. No. 1,432,701; Oct. 17.
- Lawrence, Edward E., Jamaica, assignor to Loose-Wiles Biscuit Company, Long Island City, N. Y. Receptacle-feeding apparatus. No. 1,432,702; Oct. 17.
- Lawrence, Edward E., Jamaica, and K. D. Loose, New York, assignors to Loose-Wiles Biscuit Company, Long Island City, N. Y. Pneumatic mechanism for conveying articles. No. 1,413,743; Apr. 25.
- Lawrence, Edward E., Jamaica, and K. D. Loose, assignors to Loose Wiles Biscuit Company, New York, N. Y. Mechanism for conveying and stacking food products. No. 1,433,511; Oct. 24.
- Lawrence, Edwin O., Port Jefferson Station, N. Y. Cesspool. No. 1,408,810; Mar. 7.
- Lawrence, Evan E., South Byron, N. Y. Seed-potato cutter. No. 1,438,925; Dec. 12.
- Lawrence, Frederick K., Chicago, Ill. Tire rack. No. 1,405,378; Jan. 31.
- Lawrence, John D., and S. W. Nicholson, assignors to The Dura Company, Toledo, Ohio. Window-control mechanism. No. 1,419,937; June 20.
- Lawrence, John M., assignor of one-half to L. W. Dauthaday, Baltimore, Md. Piston-ring remover. No. 1,409,956; Mar. 21.
- Lawrence Paper Manufacturing Company. (See Bowersock, Wilbur E., assignor.)
- Lawrence, Richard G., Winsted, Conn. Shell-rim stretcher. No. 1,432,605; Oct. 17.
- Lawrence, Smith Paper Goods Company, The. (See Dickinson, John L., assignor.)
- Lawrence, Thomas, et al. (See Edwards, Van Every, assignor.)
- Lawrence, Willse M., Springfield, Mass. Spark plug wrench. No. 1,410,816; Mar. 28.
- Laws, Ovid, Jr., Los Angeles, Calif. Tilting automobile scaffold. No. 1,410,197; Mar. 21.
- Lawson, Clarence J., Yonkers, N. Y. Conveyer chain. No. 1,414,424; May 2.
- Lawson, Davenport, assignor to Goodyear Redwood Co., Elk, Calif. Cableway carriage. No. 1,406,987; Feb. 21.
- Lawson, David A., South Bend, Ind. Battery-watering device. No. 1,403,041; Jan. 10.
- Lawson, David L., Orby, Calif. Lubricating attachment for springs. No. 1,430,171; Sept. 26.
- Lawson, George D., Pocahontas, Iowa. Foot-operated accelerator. No. 1,407,695; Feb. 28.
- Lawson, Guy O., Elmira Heights, N. Y. Cherry pitter. No. 1,428,789; Sept. 12.
- Lawson, Harold M. (See Hundleby, F. J., and Lawson.)
- Lawson, James A., Chicago, Ill. Food compound. No. 1,403,122; Jan. 10.
- Lawson, James L. (See Narballe, H. J., and Lawson.)
- Lawson, James W., East Providence, R. I. Cutting tool. No. 1,406,265; Feb. 14.
- Lawson, James Z. (See Croy, W. D., and Lawson.)
- Lawson, John, Central Falls, R. I., assignor, by mesne assignments, to Hemphill Company. Automatic tension-controlling means for knitting machines. No. 1,424,025; July 25.
- Lawson, John, Central Falls, assignor to Hemphill Company Pawtucket, R. I. Knitting machine. No. 1,433,386; Oct. 24.
- Lawson, Joseph, et al. (See Ruehrwein, Charles J., assignor.)
- Lawson, Leroy, Tipton, Ind. Vision shield for vehicles. No. 1,427,605; Aug. 29.
- Lawson, Robert H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for reclaiming fastenings. No. 1,403,507; Jan. 17.
- Lawson, Stanley M. (See Huth, John A., assignor.)
- Lawson, Sylvester, Kokomo, Ind. Line guide. No. 1,435,316; Nov. 14.
- Lawson, William E., Chicago, Ill., assignor to Englander Spring Bed Company, New York, N. Y. Extensible bed. No. 1,419,574; June 13.
- Lawter, Thomas F., Newcastle, Ind. Rim expander and lock. No. 1,428,486; Sept. 5.
- Lawton, Charles B., Huntington, W. Va. Insulating construction. No. 1,413,169; Apr. 18.
- Lawton, Charles L., Hancock, Mich. Mine-skip loader. No. 1,415,181; May 9.
- Lawton, Charles L., Hancock, Mich. Scraper. No. 1,417,183; May 23.
- Lawton, Charles L., Hancock, Mich. Golf-club head. No. 1,431,313; Oct. 10.
- Lawton, Nathan L., Dover, N. J. Stop motion for spinning machines. No. 1,414,883; May 2.
- Lawton, Thomas, New York, N. Y. Obesity-reducing band. No. 1,440,157; Dec. 26.
- Lawyer, Earnest, et al. (See Purcell, Benjamin H., assignor.)
- Laycock, Harry A., Schenectady, N. Y., assignor to General Electric Company. System of speed regulation and control of induction motors. No. 1,408,211; Feb. 28.
- Laycock, John G., assignor of one-half to L. McCormick, Russellville, Ohio. Knee rest. No. 1,439,006; Dec. 19.
- Layden, James, Brooklyn, N. Y. Shirt and neckband construction. No. 1,427,744; Aug. 29.
- Layden, James, Brooklyn, N. Y. Collar. No. 1,427,745; Aug. 29.
- Layden, James, Brooklyn, N. Y. Neckband and collar holder. No. 1,427,746; Aug. 29.
- Layman, Hebron B., Bronxville, N. Y. Built-up sheet-metal structure. No. 1,418,309; June 6.
- Layman, Hebron B., assignor to The Layman Pressed Rod Company, Inc., New York, N. Y. Connecting rod. No. 1,418,083; May 30.
- Layman, Hebron B., assignor to The Layman Pressed Rod Company, Inc., New York, N. Y. Connecting rod. No. 1,418,084; May 30.

Alphabetical list of patentees—Continued.

- Layman, Hebron B., assignor to The Layman Pressed Rod Company, Inc., New York, N. Y. Connecting rod. No. 1,418,085; May 30.
- Layman, Hebron B., assignor to The Layman Pressed Rod Company, Inc., New York, N. Y. Connecting rod. No. 1,418,086; May 30.
- Layman, Hebron B., assignor to The Layman Pressed Rod Company, Inc., New York, N. Y. Manufacturing sheet-metal connecting rods. No. 1,418,087; May 30.
- Layman Pressed Rod Company, The. (See Layman, Hebron B., assignor.)
- Layne, Mahlon E. (See Hall, Samuel N., assignor.)
- Layne, Mahlon E., South Pasadena, Calif. Electric drive mechanism for rotary well pumps. No. 1,435,400; Nov. 14.
- Layne, Mahlon E., and S. N. Hall, Los Angeles, Calif.; said Hall assignor to said Layne. Well mechanism. No. 1,415,585; May 9.
- Layne, Mahlon E., and S. N. Hall, Los Angeles, Calif.; said Hall assignor to said Layne. Well mechanism. No. 1,415,586; May 9.
- Layne, Mahlon E., and S. N. Hall, Los Angeles, Calif.; said Hall assignor to said Layne. Well mechanism. No. 1,415,587; May 9.
- Layne, Olyn A., Los Angeles, Calif. Separator for wells. No. 1,403,174; Jan. 10.
- Layne & Bowler Corporation. (See Wintroath, John A., assignor.)
- Layng, Harai R., deceased, San Francisco, Calif.; H. F. Layng, administratrix. Treating ores by volatilization. No. 1,427,765; Aug. 29.
- Layng, Hattie F., administratrix. (See Layng, Harai R.)
- Layton, James L., and E. T. Hopkins, Tacoma, Wash. Tool holder. No. 1,412,688; Apr. 11.
- Layton, James L., and G. F. Wallace, Tacoma, Wash. Blowtorch. No. 1,412,689; Apr. 11.
- Layton, William P. (See Garrett, S., and Layton.)
- Lazaga, Ignacio, Salem, Va. Web feeding and cutting device. No. 1,430,089; Sept. 26.
- Lazareth, Leonhard, Hoboken, N. J. Demountable vehicle body. No. 1,410,935; Mar. 28.
- L'Azote, Français, Société Anonyme. (See Guye, Philippe A., assignor.)
- Lazowski, Julian, New Kensington, Pa. Rail fastener. No. 1,402,506; Jan. 3.
- Lazowski, Julian, New Kensington, Pa. Rail fastener. No. 1,402,507; Jan. 3.
- Lea, Charles, assignor to Shawmut Engineering Company, Boston, Mass. Tensioning means for tube frames. No. 1,408,704; Mar. 7.
- Lea, Charles, assignor to Shawmut Engineering Company, Boston, Mass. Machine for splicing threads. No. 1,408,705; Mar. 7.
- Lea, Charles, assignor, by mesne assignments, to Shawmut Engineering Company, Boston, Mass. Pattern mechanism. No. 1,417,078; May 23.
- Lea, Charles, Boston, Mass., assignor, by mesne assignments, to Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Weft supply and placing mechanism. No. 1,422,722; July 11.
- Lea, Edward S., assignor to U. G. King, Trenton, N. J. Tube-cutting machine. No. 1,421,263; June 27.
- Lea, John M., assignor to General Motors Corporation, Detroit, Mich. Power plant. No. 1,409,736; Mar. 14.
- Leach, Benjamin B., Higinville, Mo. Liquid coating composition. No. 1,413,599; Apr. 25.
- Leach, Martin A. (See Hixson, James E., assignor.)
- Leach, Philip A., East Brimfield, Mass. Forge clamp. No. 1,423,123; July 18.
- Leach, Thomas. (See Willows, R. S., Pollitt, and Leach.)
- Leachman, Edward C., assignor to Pearl Pictorial (Foreign & Colonial) Limited, London, England. Electric-lamp switch. No. 1,423,228; July 18.
- Leader, John, T. Litwiler, and R. E. Getz, assignors to Getz Power Washer Co., Morton, Ill. Operating mechanism for washing machines. No. 1,418,295; June 6.
- Leadizing Company. (See Shoemaker, Robert J., assignor.)
- Leadley, Harcourt C., New York, N. Y. Bale hook. No. 1,413,170; Apr. 18.
- League, Charles R., Ahwahnee, Calif. Wall mold. No. 1,439,826; Dec. 26.
- Leah, Howard, Wellington, New Zealand. Brake release spring mechanism for tram and the like cars. No. 1,421,697; July 4.
- Leahy, Herbert V., assignor to Hercules Carburetor Company, Los Angeles, Calif. Carburetor. No. 1,421,790; July 4.
- Leahy, John J. (See Carson, R. M., and Leahy.)
- Leahy, Patrick T., Cleveland, Ohio. Mixing valve. No. 1,427,606; Aug. 29.
- Leam, Robert A., Yellow Springs, Ohio. Wood preservative. No. 1,404,128; Jan. 17.
- Leander, Knut, Albany, assignor to Ludlum Electric Furnace Corporation, Watervliet, N. Y. Electric furnace. No. 1,420,561; June 20.
- Leary, James W. (See Gwinn, G. W., and Leary.)
- Leary, James W., Hollis, N. Y., assignor to Automatic Packing & Labeling Company, Durham, N. C. Feeding mechanism. No. 1,413,038; Apr. 18.
- Leary, Wallace I., Creede, Colo. Envelope for registering mail matter. No. 1,436,885; Nov. 28.
- Leas, Charles E. (See Leas, Warren R. and C. E.)
- Leas, Warren R. and C. E., Wyoming, Pa. Picture hold. No. 1,410,765; Mar. 28.
- Leather Products & Finishing Co. (See Otto, Edgar W., assignor.)
- Leather Steel Products Co. (See Woodward, William R., assignor.)
- Leatherman, Charles H., assignor to The Pioneer Manufacturing Company, Cleveland, Ohio. Duster. No. 1,416,480; May 16.
- Leatherman, Robert L., Mount Pleasant, Pa. Dining-room cabinet. No. 1,409,871; Mar. 14.
- Leatherman, Robert L., and S. L. Walker, Mount Pleasant, Pa. Dirigible headlight. No. 1,431,240; Oct. 10.
- Leati, Alessandro, Milan, Italy. Cooking range. No. 1,408,811; Mar. 7.
- Leavenworth, Seth H., Rochester, N. Y. Metal surfacing or abrading machine. No. 1,413,171; Apr. 18.
- Leaver, Edmund S., and C. E. van Barneveld, Tucson, Ariz. Recovering metals from their ores. No. 1,410,936; Mar. 28.
- Leaver, James M., Jr., Oakland, Calif. Guard for cut-off saws. No. 1,411,045; Mar. 28.
- Leavitt, Frank S., Melrose, and E. A. Staples, Dorchester, Mass., assignors to Atlas Devices Company, Inc. Identifying means for pneumatic-despatch-tube carriers. No. 1,423,440; July 18.
- Le Baron, Leonard, and A. C. Harrell, Pensacola, Fla. Automatic train-pipe coupling. No. 1,407,665; Feb. 21.
- Lebby, States L., Savannah, Ga. Spotlight. No. 1,408,104; Feb. 28.
- Lebby, States L., Savannah, Ga. Supporting bracket for spotlights and the like. No. 1,431,963; Oct. 17.
- Leber, George J. (See Smith, O. A., and Leber.)
- Lebert, William R., Watertown, S. Dak. Funnel. No. 1,411,284; Apr. 4.
- Leberz, Harry J., Frederick, Md. Bottle capper. (Reissue.) No. 15,285; Feb. 14.
- Leberz, Harry J., Frederick, Md. Hand crowner for applying crown caps to bottles. No. 1,421,698; July 4.
- Le Blanc, Arthur, Springfield, Mass. Electric dry closet. No. 1,432,740; Oct. 24.
- Leblanc, Maurice C. A., Val-sur-Seine, par Croissy, assignor to Societe Anonyme Pour L'Exploitation Des Procédés Westinghouse Leblanc, Paris, France. Steam ejector. No. 1,422,582; July 11.
- Le Blond, R. K. Machine Tool Company, The. (See Groene, William F., assignor.)
- Lebo, Robert B., Elizabeth, assignor to Standard Oil Company, Bayonne, N. J. Purifying higher secondary alcohols. No. 1,422,583; July 11.
- Leboucher, Paul J. (See Broussouse, F. L., and Leboucher.)
- Leboucher, Paul J., Paris, France. System of elastic lateral balancing for vehicles. No. 1,438,837; Dec. 12.
- Lebovici, Justin, Oakley, Ohio, assignor to The Triumph Electric Company. Interlock circuit protector. No. 1,422,110; July 11.
- Le Brun, Angelo P., assignor to Compagnie des Forges et Acieries de la Marine et d'Homecourt, Paris, France. Piston for controlling fluids under pressure. No. 1,409,556; Mar. 14.
- Lebzelter, William F., assignor, by mesne assignments, to E. M. Miller, Elizabethtown, Pa. Electric heating device. No. 1,417,079; May 23.
- Lebzelter, William F., assignor, by mesne assignments, to E. M. Miller, Elizabethtown, Pa. Electric heating device. No. 1,423,806; July 25.
- Le Cain, John A., Malden, Mass., assignor to Worthington Pump and Machinery Corporation. Valve. No. 1,405,525; Feb. 7.
- Lechler, Harry L., St. Louis, Mo. Pot-holding attachment for faucets. No. 1,420,197; June 20.
- Lechner, Matthew, New York, N. Y. Electric storage battery. (Reissue.) No. 15,457; Sept. 19.
- Leckinger, Philip H., assignor to High Speed Hammer Company, Inc., Rochester, N. Y. Drill press. No. 1,433,387; Oct. 24.
- Le Clair, Sanford D., San Francisco, Calif. Sister-hook snatch block. No. 1,436,348; Nov. 21.
- Le Compte, Edward P., Park City, Utah. Tire protector. No. 1,410,484; Mar. 21.
- Le Compte, Edward P., Park City, Utah. Steering mechanism for motor vehicles. No. 1,434,216; Oct. 31.
- Le Compte, Oliver P. (See Chambers, John M., assignor.)
- Leconte, Ernest G., Paris, France. Demountable article of furniture with multiple combinations. No. 1,431,823; Oct. 10.
- Lecoq, Henri, assignor to Chantiers & Ateliers Augustin Normand, Le Havre, France. Gun turret for submarines. No. 1,440,020; Dec. 26.
- Lecrone, John P., York, Pa. Clutch-pedal-locking device for Ford cars. No. 1,425,989; Aug. 15.
- Leddy, John F., Hoboken, N. J. Plumber's soil. No. 1,417,258; May 23.
- Leddy, John J., et al. (See Gauvin, Henri, assignor.)
- Ledell, Carl A., Connersville, Ind. Screw gauge. No. 1,423,339; July 18.
- Lederer, Anton, Vienna, Austria, assignor to Westinghouse Lamp Company. Process and apparatus for bending filaments. No. 1,419,153; June 13.
- Lederer, Eugene H., State College, Pa. Game. No. 1,417,336; May 23.
- Ledermann, Jacob. (See Hall, Fred D., assignor.)
- Ledgers Limited. (See Myatt, John W., assignor.)

- Ledig, Richard G., assignor to A. Mecky Company, Philadelphia, Pa. Vehicle. No. 1,411,852; Apr. 4.
- Ledig, Richard G., assignor to A. Mecky Company, Philadelphia, Pa. Electric heater. No. 1,415,660; May 9.
- Ledig, Richard G., assignor to A. Mecky Company, Philadelphia, Pa. Water heater. No. 1,433,388; Oct. 24.
- Le Duc, Alexander and S., Minneapolis, Minn. Basket for cooking utensils. No. 1,413,744; Apr. 25.
- Le Duc, Nancy M. B., Pasadena, Calif. Stopper for laundry trays and the like. No. 1,403,423; Jan. 10.
- Le Duc, Stephen. (See Le Duc, Alexander and S.)
- Ledwidge, Christopher J., Hot Springs, Ark. Electric switch. No. 1,434,217; Oct. 31.
- Ledwinka, Joseph. (See Budd, E. G., and Ledwinka.)
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Electric water heater. No. 1,402,873; Jan. 10.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Hinge structure. No. 1,412,881; Apr. 18.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Electrically welding galvanized metal sheets or parts. No. 1,414,822; May 2.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Jig for use in electrically welding the parts of automobile bodies and other structures. No. 1,415,588; May 9.
- Ledwinka, Joseph, assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Pressed-steel wheel. No. 1,423,229; July 18.
- Ledwinka, Joseph, assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Metal wheel. No. 1,427,747; Aug. 29.
- Ledwinka, Joseph, assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Wheel. No. 1,427,748; Aug. 29.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Automobile body structure. No. 1,428,105; Sept. 5.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Motor vehicle. No. 1,431,314; Oct. 10.
- Ledwinka, Joseph, assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Making sheet-steel wheels. No. 1,434,713; Nov. 7.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Duplex electric-welding machine. No. 1,436,716; Nov. 28.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Buffer for automobile doors. No. 1,439,007; Dec. 19.
- Ledyard, Elisha G., Sioux Falls, S. Dak. Bottom-dump trailer. No. 1,433,895; Oct. 31.
- Lee, Albert P., Chicago, Ill. Metal basket. No. 1,404,154; Jan. 17.
- Lee, Albert P., assignor to Lee Trailer and Body Company, Chicago, Ill. Autotruck. No. 1,402,299; Jan. 3.
- Lee, Albert P., assignor to Lee Trailer and Body Company, Chicago, Ill. Rear-dump vehicle. No. 1,402,300; Jan. 3.
- Lee, Albert P., assignor to Lee Trailer & Body Co., Chicago, Ill. Reversible trailer. No. 1,406,658; Feb. 14.
- Lee, Albert P., assignor to Lee Trailer & Body Co., Chicago, Ill. Trailer connecting-head construction. No. 1,412,120; Apr. 11.
- Lee, Albert P., assignor to Lee Trailer & Body Co., Chicago, Ill. Dumping vehicle. No. 1,412,121; Apr. 11.
- Lee, Bernard S., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Mounting for electrical appliances. No. 1,406,988; Feb. 21.
- Lee, Dana S., St. Louis, Mo. Brake-lever circuit closer for automobile theft signals. No. 1,428,380; Sept. 5.
- Lee, Don. (See Farum, Elecie P., assignor.)
- Lee, Dwight B., assignor to Motor Products Corporation, Detroit, Mich. Forming soldered seamed tubing. No. 1,424,170; Aug. 1.
- Lee, Dwight B., assignor to Motor Products Corporation, Detroit, Mich. Machine for manufacturing tubing. No. 1,424,171; Aug. 1.
- Lee, Edward A., Halesbury, Ontario, Canada. Bottle cleaner. No. 1,420,714; June 27.
- Lee, Edwin S., Kansas City, Mo. Safety hair straightener. No. 1,431,241; Oct. 10.
- Lee, Edwin S., Kansas City, Mo. Safety hair-strengthening device. No. 1,432,251; Oct. 17.
- Lee, Elmer J., Bangor, Pa. Timer. No. 1,425,990; Aug. 15.
- Lee, Ernest A., Lorain, Ohio. Control apparatus for compressors. No. 1,410,485; Mar. 21.
- Lee, Forrest M., Geneva, Ind. Bit-dressing machine. No. 1,407,286; Feb. 21.
- Lee, Frank A., Cincinnati, and F. G. Rose, Dayton, assignors to The John Church Company, Cincinnati, Ohio. Phonograph. No. 1,413,919; Apr. 25.
- Lee, Frederick, assignor to G. E. Haldinstein, Norwich, England. Solution for use in the manufacture of boots and shoes. No. 1,410,685; Mar. 28.
- Lee, Gilbert E., Morris, Minn. Lifting device. No. 1,413,039; Apr. 18.
- Lee, Gordon, et al. (See Lewis, Robert W., assignor.)
- Lee, Grandville W. H., Columbus, Ind. Attachment for tractor plows. No. 1,410,486; Mar. 21.
- Lee, Harry A., Kansas City, Mo. Journal truing or turning tool. No. 1,411,441; Apr. 4.
- Lee, Harry G., Tacoma, Wash., assignor to J. Perron, Sparta, Wis. Traffic-signaling device. No. 1,437,762; Dec. 5.
- Lee, Hugh W., and J. W. Swindale, assignors to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Means for actuating ammunition hoists. No. 1,428,171; Sept. 5.
- Lee, John. (See Robeson, R., and Lee.)
- Lee, John H., trustee. (See de Martino, Joseph, assignor.)
- Lee, John J., Chicago, Ill. Button. No. 1,410,327; Mar. 21.
- Lee, John L. (See Harris, Oliver H., assignor.)
- Lee, John M. (See Broadley, J. R., and Lee.)
- Lee, John S., Newton, Iowa. Automatic boiler feed. No. 1,425,394; Aug. 8.
- Lee, Kian G., Champaign, Ill. Focusing device. No. 1,414,193; Apr. 25.
- Lee, Leif, Youngstown, Ohio. Sheet-feeding device. No. 1,409,012; Mar. 7.
- Lee, R. T., Northampton, Mass., and T. B. Lashar, Bridgeport, Conn., assignors to International Silver Co., Bridgeport, Conn. Manufacturing one-piece rustless knives for table use. No. 1,407,794; Feb. 28.
- Lee, Ralph R. (See Miller, C. P., and Lee.)
- Lee, Robert E., Kansas City, Mo. Starting device for engines. No. 1,412,946; Apr. 18.
- Lee, Robert E., Fort Worth, Tex. Cleaning and treating oil and gas wells. No. 1,439,560; Dec. 19.
- Lee, Robert E., Fall River, assignor of one-half to J. Wood, New Bedford, Mass. Burner. No. 1,437,524; Dec. 5.
- Lee, Sidney, Broken Arrow, Okla. Twine holder. No. 1,405,526; Feb. 7.
- Lee, Thomas L., assignor to North East Electric Company, Rochester, N. Y. Electric system for motor vehicles. No. 1,406,039; Feb. 7.
- Lee, Thomas L., assignor to North East Electric Company, Rochester, N. Y. Terminal block. No. 1,412,083; Apr. 11.
- Lee Trailer & Body Co. (See Anderson, Magnus C., assignor.)
- Lee Trailer & Body Company. (See Brace, Henry P., assignor.)
- Lee Trailer & Body Co. (See Lee, Albert P., assignor.)
- Lee, Wellington B. (See Bodkin, John A., assignor.)
- Lee, William A., Cargile, Ark. Cable clamp. No. 1,419,741; June 13.
- Leeberg, Edward, Roselle, N. J. Flush tank. No. 1,426,203; Aug. 15.
- Leece, Bennett M., assignor to The Leece-Neville Company, Cleveland, Ohio. Dynamo-electric machine. No. 1,411,442; Apr. 4.
- Leece-Neville Company, The. (See Leece, Bennett M., assignor.)
- Leech, Charles M., deceased, Cleveland, Ohio, C. E. Kindell, administrator. Internal-combustion engine. No. 1,407,468; Feb. 21.
- Leech, Frank J., Ottawa, and W. H. Meyers, Utica, Ill. Combined wagon and automobile dump. No. 1,429,892; Sept. 19.
- Leech, J. W., et al. (See Hurl, Charles W., assignor.)
- Leech, John W., Salina, Kans. Automobile attachment. No. 1,427,749; Aug. 29.
- Leechman, George D., London, England. Adjustable wrench. No. 1,413,125; Apr. 18.
- Leeds Forge Company Limited, The. (See Gresley, Herbert N., assignor.)
- Leedy, Elmer E., Newark, Ohio. Wire reel. No. 1,403,123; Jan. 10.
- Leedy, Harry B., Pendleton, Oreg. Derail lock. No. 1,439,371; Dec. 19.
- Leedy, Walter. (See Nicholas, L. W., and Leedy.)
- Leedy, Walter L., Youngstown, Ohio. Damper-control device. No. 1,417,259; May 23.
- Leeform, Edward B. (See Isaacson, F. O., and Leeform.)
- Leen, John A., Jr., Kansas City, Mo. Combined cable clamp and wire holder. No. 1,408,750; Mar. 7.
- Lees-Bradner Co. (See Schurr, C. H., and Lees, assignors.) (Reissue.)
- Lees, Edgar, and H. L. Parry, assignors to The Whitehead Torpedo Works (Weymouth) Limited, Weymouth, Dorset, England. Automobile torpedo and other gyroscopically-controlled moving body. No. 1,410,931; Mar. 28.
- Lees, Ernest J. (See Schurr, C. H., and Lees.) (Reissue.)
- Lees, Frederick, Philadelphia, Pa. Burial box. No. 1,421,967; July 4.
- Lees, James, Montreal, Quebec, Canada. Grease cup. No. 1,438,384; Dec. 12.
- Lees, Thomas W., Halifax, England. Valve. No. 1,423,340; July 12.
- Leeseberg, Henry C., Fostoria, Ohio. Treating pistons and piston rings to prevent distortion in use. No. 1,412,288; Apr. 11.
- Leesekamp, Andrew, Anamosa, Iowa. Cask cover. No. 1,417,845; May 30.
- Leet, Theron H., assignor to F. L. Curfman, Maryville, Mo. Carburetor. No. 1,438,926; Dec. 12.
- Leevers, Frederic W., Hornsey, England. Valve. No. 1,414,141; Apr. 25.
- Leezenbaum, Isadore, assignor to General Tube Company, Newark, N. J. Mandrel seating apparatus for tube-bending machines. No. 1,404,397; Jan. 24.
- Le Fever, Joseph J., Newport, Idaho. Front sight for rifles and revolvers. No. 1,417,670; May 30.

Alphabetical list of patentees—Continued.

- Lefevre, André J., Paris, France. Shell for firing against armour plating and resisting targets. No. 1,402,776; Jan. 10.
- Le Fevre, George A., Richmond Hill, assignor to Baxflat Barrel & Crate Corporation, New York, N. Y. Knock-down barrel. No. 1,417,337; May 23.
- Le Fevre, George A., Richmond Hill, N. Y., and H. Hutchinson, Newark, N. J., assignors to Paxflat Barrel & Crate Corporation, New York, N. Y. Hoop fastening. No. 1,419,392; June 13.
- Lehmigwell, Howard G., Grand Junction, Colo. Battery vise. No. 1,408,954; Mar. 7.
- Leifler, Christoph, Brunswick, Germany. Valve-regulating device. No. 1,430,570; Oct. 3.
- Leifer, Ralph R., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Flat-slab pan. No. 1,410,328; Mar. 21.
- Leikovit, Samuel C., Brooklyn, N. Y. Ironing-board cover. No. 1,403,088; Jan. 10.
- Leikowitz, Charles, E. E. Ross, and H. Lubin, Newark, N. J. Carboy. No. 1,426,889; Aug. 22.
- Leifer, Charles W., Walla Walla, Wash. Weeder. No. 1,433,212; Oct. 24.
- Leifer, Chauncey, Bentley, Mich. Elevator. No. 1,411,736; Apr. 4.
- Leifer, William B., Springfield, Nebr. Driving mechanism for vehicles. No. 1,418,310; June 6.
- Legan, Lusk O., San Antonio, Tex. Shield or auxiliary tire. No. 1,412,122; Apr. 11.
- Legard, Charles. (See Ketzler, C. F., and Legard.)
- Legat, Robert C. (See Prentice, G. E., and Legat.)
- Legate, William A., assignor of one-half to G. C. Sandidge and C. R. Damon, Guthrie, Okla. Drilling bit. No. 1,429,041; Sept. 12.
- Leger, Jules P., Brussels, Belgium, assignor to "Société Française des Procédés Golpo," Neuilly, Seine, France. Coach body and the like. No. 1,404,619; Jan. 24.
- Leger, Oswald C., Los Angeles, Calif. Cap shaper. No. 1,422,366; July 11.
- Leger, Oswald C., Los Angeles, Calif. Winding mechanism for spring motors. No. 1,423,230; July 18.
- Legg, Arthur S. (See Bawtree, Alfred E., assignor.)
- Legg, David A. (See Weizmann, C., and Legg.)
- Legg, David A., assignor to M. A. Adam, London, England. Manufacture of butyric aldehyde. No. 1,418,448; June 6.
- Legg, Joseph J., Lumberton, Miss. Car door. No. 1,409,957; Mar. 21.
- Legge, Howard, Los Angeles, Calif. Phonograph needle. No. 1,416,216; May 16.
- Legge, Thomas A., Chicago, Ill., assignor to The Adams & Westlake Company. Berth lamp. No. 1,404,980; Jan. 31.
- Leggett & Platt Spring Bed Co. (See Ziler, Corban H., assignor.)
- Lego, James C., assignor of one-third to J. K. Smith, North Baltimore, Ohio. Lock nut. No. 1,429,955; Sept. 26.
- Le Hanne, Fritz. (See Beckers, G., and Le Hanne.)
- Lehigh Corporation, The. (See Enders, Hugo, assignor.)
- Lehman, Edward G. (See Baker, H. C., and Lehman.)
- Lehman, Edward G., assignor, by mesne assignments, to United Alloy Steel Corporation, Canton, Ohio. File follower. No. 1,438,385; Dec. 12.
- Lehman, John G., assignor to Bethlehem Foundry & Manufacturing Company, Bethlehem, Pa. Temperature control of kettles by zones. No. 1,407,666; Feb. 21.
- Lehman, John G., assignor to Bethlehem Foundry & Machine Company, Bethlehem, Pa. Making cast containers. No. 1,435,401; Nov. 14.
- Lehman, Joseph, assignor to The Consolidated Iron-Steel Manufacturing Company, Cleveland, Ohio. Pressed-steel stairway. No. 1,412,788; Apr. 11.
- Lehman, Joseph H., Hasbrouck Heights, N. J. Electric-current making, breaking, and reversing device. No. 1,415,369; May 9.
- Lehman, Joseph H., Hasbrouck Heights, N. J. Circuit controller for ignition systems. No. 1,415,370; May 9.
- Lehman, William C., Cannelton, Ind. Roundabout. No. 1,406,040; Feb. 7.
- Lehmann, Franz, Trimback, Switzerland. Baking apparatus. No. 1,436,989; Nov. 28.
- Lehmann, Gustav O., Berlin, Germany. Vacuum cleaning and dusting apparatus. No. 1,429,893; Sept. 19.
- Lehmann, Karl L., assignor to Chamales-Lehmann Company, Chicago, Ill. Railway signaling device. No. 1,413,667; Apr. 25.
- Lehmann, Karl A., Essens, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Type-writing machine. No. 1,427,398; Aug. 29.
- Lehner, Alfred, Theresienthal, near Arnau, Czecho-Slovakia, assignor to Firm C. G. Haubold Aktiengesellschaft, Chemnitz, Germany. Water-driven spinning-cup device for artificial silk. No. 1,437,899; Dec. 5.
- Lehnert, Friedrich W., New Haven, Conn. Soap magazine for washboards. No. 1,431,824; Oct. 10.
- Lehnhoff-Wyld, Frederic, Paris, France. Device to obtain stereoscopic effects in cinematographic projections. No. 1,419,901; June 13.
- Lehr, Edwin, Wilkensburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Voltage-regulator system. No. 1,419,458; June 13.
- Lehr, Emmett S., Salt Creek, Wyo. Shock absorber. No. 1,423,667; July 25.
- Lehr, Harry M., Lincoln, Nebr. Automatic grain-cut-off holder. No. 1,401,991; Jan. 3.
- Lehr, John, assignor to The Miller Rubber Company, Akron, Ohio. Making rubber acid-proof containers. No. 1,431,471; Oct. 10.
- Lehr, Peter T., New York, N. Y. Pneumatic tire. No. 1,404,532; Jan. 24.
- Lehrack, Frederick W., Kansas City, Mo., assignor to Kewanee Implement Company, Kewanee, Ill. Wagon dump. No. 1,438,248; Dec. 12.
- Lehrack, Otto J., Kansas City, Mo. Flow-line switch for elevators. No. 1,434,660; Nov. 7.
- Lehto, Kusti, Maynard, Mass. Photographic copying and enlarging apparatus. No. 1,406,041; Feb. 7.
- Leibe, Alvin L., Irvington, N. J. Eyeglasses and the like. No. 1,439,112; Dec. 19.
- Leibing, William E., assignor of one-half to A. Weber, Oakland, Calif. Carbonator. No. 1,436,886; Nov. 28.
- Leibovitz, Moritz, Loran, Ohio. Combination clasp and lock. No. 1,422,214; July 11.
- Leicester, Charles H., Ocean Falls, British Columbia, Canada. Interlocking brick. No. 1,431,530; Oct. 10.
- Leich Electric Co. (See Reid, Alexander C., assignor.)
- Leicht, Edward H., Burlington, Iowa. Can closure. No. 1,432,252; Oct. 17.
- Leicht, Louis, et al. (See Metzger, Charles, assignor.)
- Leichtfuss, William, New York, N. Y. Window-pane fastener. No. 1,426,204; Aug. 15.
- Leidecker, Frank W., Okmulgee, Okla. Check and release valve for well swabs. No. 1,405,048; Jan. 31.
- Leifheit, George H., Aurora, Ill. Liquid-fuel burner. No. 1,426,833; Aug. 22.
- Leifheit, Thomas H., Pomeroy, Ohio. Cylinder head for engines. No. 1,438,927; Dec. 12.
- Leigh, Alfred G., Santiago, Chile. Aeroplane with inherent stability. No. 1,404,129; Jan. 17.
- Leighton, John J., Rochester, N. Y. Splash guard for sinks. No. 1,408,812; Mar. 7.
- Leighton, John W., assignor to Pressed Metals Company of Canada Limited, Toronto, Ontario, Canada. Manufacturing bushings and similar articles. No. 1,416,846; May 23.
- Leighty, William J. (See Allison, I., and Leighty.)
- Leighty, William J., Chicago, and I. Allison, Downers Grove, Ill. Blowpipe. No. 1,409,220; Mar. 14.
- Leiken, Philip, Brooklyn, assignor to Peerless Smoking Jacket Company, New York, N. Y. Knickers. No. 1,423,668; July 25.
- Leiman, George W., Newark, N. J. Rotary pump. No. 1,414,028; Apr. 25.
- Leimi, Andrew, Palo, Minn. Windmill. No. 1,413,339; Apr. 18.
- Leinbach, Edward L., Chicago, Ill. Anchoring or fastening device for cable ends. No. 1,408,212; Feb. 28.
- Leinbach, Warren C., Wilkensburg, Pa. Pickling machine. No. 1,415,589; May 9.
- Leinberger, John T., and J. L. Roth, Monitor Township, Bay County, Mich. Combined grader and material-transporting vehicle. No. 1,415,880; May 16.
- Leinert, Charles H., Chicago, Ill. Valve for compressors. No. 1,404,130; Jan. 17.
- Leinert, Wenzel W., New York, N. Y. Calculating device. No. 1,435,485; Nov. 14.
- Leinsetter, David A., Leipsic, Ohio. Sanitary washstand. No. 1,426,488; Aug. 22.
- Leinweber, William H., assignor to Continental Air Craft & Transportation Company, Chicago, Ill. Propeller. No. 1,401,992; Jan. 3.
- Leipert, August H. (See Herreshoff, A. G., and Leipert.)
- Leipert, August H. (See Masury, A. E., and Leipert.)
- Leipert, August H., assignor to International Motor Company, New York, N. Y. Tandem rear drive for motor vehicles. No. 1,402,301; Jan. 8.
- Leipert, August H., assignor to International Motor Company, New York, N. Y. Automobile radiator. No. 1,403,860; Jan. 17.
- Leipert, August H., assignor to International Motor Company, New York, N. Y. Double-tread wheel for rail cars adapted to operate as road vehicles. No. 1,408,813; Mar. 7.
- Leipert, August H., assignor to International Motor Company, New York, N. Y. Manufacturing gearing. No. 1,412,185; Apr. 11.
- Leipert, August H., assignor to International Motor Company, New York, N. Y. Gearing. No. 1,418,447; June 6.
- Leipold, Frank D., Clearfield, Pa. Amalgam mixer. No. 1,421,016; June 27.
- Leishman, Le Roy J., Ogden, Utah. Computing instrument. No. 1,433,083; Oct. 24.
- Leisse, Frederick J., St. Louis, Mo. Automobile tire. No. 1,422,723; July 11.
- Leisse, Pierre L., Boulogne, assignor to L. Renault, Billancourt, France. Sheet-metal wheel. No. 1,403,608; Jan. 17.
- Leister, Fayette, Philadelphia, Pa. Finishing the contact member of a commutator brush. No. 1,405,049; Jan. 31.
- Leitch, James T., assignor of two-fifths to T. A. Freed and E. S. Freed, Allentown, Pa. Phonograph. No. 1,406,042; Feb. 7.
- Leitch, James T., assignor of one-fifth to T. A. Freed and one-fifth to E. S. Freed, Allentown, Pa. Phonograph. No. 1,419,459; June 13.

- Leitch, John H., assignor to Auto Accessories Mfg. Co., Detroit, Mich. Friction drive for fans. No. 1,425,870; Aug. 15.
- Leitch, Lucy B., administratrix. (See Leitch, Meredith.)
- Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Supporting spindle for centrifugal machines. No. 1,409,958; Mar. 21.
- Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Centrifugal oil purifier. No. 1,415,881; May 16.
- Leitch, Meredith, deceased, Poughkeepsie, N. Y., by L. B. Leitch, administratrix, Montgomery, Ala., assignor to The De Laval Separator Company, New York, N. Y. Milking-machine-operating system. No. 1,415,882; May 16.
- Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Bearing for machinery. No. 1,425,664; Aug. 15.
- Leith, Thomas G. (See Smith, J. H., Brand, and Leith.)
- Leitner, Henry, London, England. Screw propeller. No. 1,414,742; May 2.
- Leitner, Henry, Kingsway, London, England. Screw propeller. No. 1,438,838; Dec. 12.
- Le Jeune, Whitney P. (See Parent, Joseph B., assignor.)
- Lekowicz, Ladis, Paris, France. Windshield articulated device with mechanical locking means. No. 1,413,556; Apr. 18.
- Leland, Harrison R., and W. Schwenlein, assignors to Parkersburg Rig & Reel Company, Parkersburg, W. Va. Deck for oil tanks. No. 1,426,997; Aug. 22.
- Leland, Harrison R., and W. Schwenlein, assignors to Parkersburg Rig & Reel Company, Parkersburg, W. Va. Deck for oil tanks. No. 1,426,998; Aug. 22.
- Leland, Harrison R., and W. Schwenlein, assignors, to Parkersburg Rig & Reel Company, Parkersburg, W. Va. Floating deck for oil tanks. No. 1,426,999; Aug. 22.
- Lely, Dirk, jr., Eindhoven, Netherlands, assignor to General Electric Company, New York, N. Y. Head-light for road vehicles or the like. No. 1,431,964; Oct. 17.
- Lemaire, Josef, Köln-Dellbrück, Germany. Internal-combustion engine. No. 1,406,877; Feb. 14.
- Lemaitre, Lucien, Paris, France. Bolt for spring rings and manufacturing the same. No. 1,423,441; July 18.
- Le Master, Collins A., St. Louis, Mo. Dental radiograph device. No. 1,433,464; Oct. 24.
- Lemelin, Joseph C., Point Levis, Quebec, Canada. Card-door lock. No. 1,436,509; Nov. 21.
- Le Merle, Francis G., M. J. Ullman, and J. E. Barry, Washington, D. C. Gasoline electric automobile. No. 1,423,124; July 18.
- Lemich, Frederick A., Los Angeles, Calif. Clamping bolt. No. 1,414,089; Apr. 25.
- Lemich, Frederick A., Oakland, Calif. Device for drawing up and clamping steel plates, etc. No. 1,436,967; Nov. 28.
- Lenke, August. (See Nehls, W. and Lemke.)
- Lenke, Lewis W. Cliff Mine, Pa. Plant box. No. 1,439,426; Dec. 19.
- Lenley, Louis E., New Orleans, La. Resilient wheel for vehicles. No. 1,436,178; Nov. 21.
- LeMoine, Clement, Sioux City, Iowa. Diaper. No. 1,431,315; Oct. 10.
- LeMoine, Henri G., Paris, France. Elastic resistance heater. No. 1,431,825; Oct. 10.
- LeMoine, Jules L., Paris, France. Smooth-belt elevator. No. 1,405,233; Jan. 31.
- LeMoine, Louis R., Philadelphia, Pa., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Drying molds. No. 1,421,791; July 4.
- Lemon, Alfred E., Douglas, Ariz. Deep-sea salvage apparatus. No. 1,415,661; May 9.
- Lemon, James J., Arnold, Pa. Plastic composition. No. 1,418,810; June 6.
- Lemon, Robert L., assignor to Van Camp Packing Company, Indianapolis, Ind. Shipping box for canned goods. No. 1,428,597; Sept. 12.
- Lemons, Joseph F., Adams, assignor of one-fourth to W. B. Winters, Adams, and one-fourth to J. Hancock, Springfield, Tenn. Dust gun. No. 1,423,125; July 18.
- Le Moyné, William M., Chicago, Ill. Ship for submarine navigation. No. 1,426,882; Aug. 22.
- Lenaghan, Thomas, Croydon, England. Automatic telephone system. No. 1,409,737; Mar. 14.
- Lenahan, John E., Newburgh, N. Y. Wrench. No. 1,417,338; May 23.
- Lenahan, Robert E., Buell, Va. Bung-hole stopper. No. 1,411,853; Apr. 4.
- Lenardic, Charles, Cleveland, Ohio. Self-leveling furniture. No. 1,414,291; Apr. 25.
- Lenardic, Charles, Cleveland, Ohio. Shade-operating device. No. 1,432,703; Oct. 17.
- Lence, John, Regina, Saskatchewan, Canada. Washing, scrubbing, and drying machine. No. 1,430,090; Sept. 26.
- Lenders, Adolph W. H., and P. W. Allen, Cedar Rapids, Iowa, assignors, by mesne assignments, to Penick & Ford, Ltd., Incorporated. Manufacture of cornstarch and products therefrom. No. 1,417,467; May 23.
- Lenders, Adolph W. H., and H. F. Bauer, Cedar Rapids, Iowa, assignors, by mesne assignments, to Penick & Ford, Ltd., Incorporated. Making soluble starch products. No. 1,418,311; June 6.
- Lendrich, Karl, Hamburg, Germany. Manufacture of coffee substitutes from cereals and the malt of cereals. No. 1,434,297; Oct. 31.
- Lene, Reinhold S., Lexington, assignor of one-half to Harp- ham Brothers Company, Lincoln, Nebr. Horse collar. No. 1,430,513; Sept. 26.
- Lenehan, William, Denver, Colo. Lawn-edge trimmer. No. 1,428,696; Sept. 12.
- L'Enfant, Charles, New York, N. Y. Bill fold. No. 1,423,669; July 25.
- Lengfeld, Carl F. and F. O., and J. J. McHugh, San Francisco, Calif. Valve lifter. No. 1,430,822; Oct. 3.
- Lengfeld, Frederick O. (See Lengfeld, Carl F. and F. O., and McHugh.)
- Lenher, Victor, Madison, Wis., and F. M. Dorsey, Cleveland, Ohio; said Dorsey assignor of his right to General Electric Company. Purifying carbon. No. 1,423,231; July 18.
- Lenhoff, John A., Hockessin, Del. Attachment for awnings. No. 1,422,772; July 11.
- Lennan, William M., Toronto, Ontario, Canada. Diestock lubricator. No. 1,410,329; Mar. 21.
- Lenneberg, Adolf, Yonkers, N. Y. Glove attachment. No. 1,416,653; May 16.
- Lenneberg, Adolf, Yonkers, N. Y. Vanity-case assemblage. No. 1,416,654; May 16.
- Lennig, Edmund B., assignor to Thermic Engineering Co., San Francisco, Calif. Thermostat. No. 1,420,659; June 27.
- Lennig, Edmund B., assignor, by mesne assignments, to Electric Radiator & Engineering Co., Inc., San Francisco, Calif. Thermostat plug. No. 1,436,267; Nov. 21.
- Lennox, John S., Norwich, Conn., assignor to General Electric Company. Stationary induction apparatus. No. 1,436,968; Nov. 28.
- Leno, Harry, Los Angeles, Calif. Car-lifting device. No. 1,409,456; Mar. 14.
- Leno, Harry, Santa Barbara, Calif. Car-lifting device. No. 1,409,457; Mar. 14.
- Lenoir, W. L., et al. (See Wynne, George E., assignor.)
- Lensmeyer, Louis J. (See Trudeau, A. L., and Lensmeyer.)
- Lent, Alvah F., Newark, N. J. Cap pistol. No. 1,419,742; June 13.
- Lenton, Frank, New York, N. Y. Record disk. No. 1,417,339; May 23.
- Lentuch, Israel M., assignor of one-half to M. Jaffe, Brooklyn, N. Y. Food chopper. No. 1,434,298; Oct. 31.
- Lentz, Charles R., Indianapolis, Ind. Cutter for pastry-making machines. No. 1,419,276; June 13.
- Lentz, George, deceased, by P. Denizot, administrator, Pontoise, France. Pneumatic wheel for vehicles. No. 1,429,894; Sept. 19.
- Lentz, Onis J., Oakland, Calif. Frictionless rail joint. No. 1,429,895; Sept. 19.
- Lenz, Agnes R., Huntley, Ill. Hospital bed. No. 1,404,207; Jan. 24.
- Lenz, Ernst H., and H. Bell, Evansville, Ind. Cleaner attachment for player pianos. No. 1,410,537; Mar. 21.
- Leo, Francis J., Buffalo, N. Y. Burial casket. No. 1,417,531; May 30.
- Leon, Creed S., and J. G. Chopas, Glenmora, assignors of one-third to L. Singletary, Oakdale, La. Casing puller for oil wells. No. 1,435,486; Nov. 14.
- Leon, Frank C., et al. (See Facciuto, Luigi, Sr., assignor.)
- Leon, Karl O., Gottenborg, Sweden. Roller bearing or the cage thereof. No. 1,438,654; Dec. 12.
- Leon, Karl O., Stockholm, assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Antifriction ball or roller bearing. No. 1,423,950; July 25.
- Leon, William, Niagara Falls, N. Y. Keyless lock. No. 1,403,256; Jan. 10.
- Leonard, Caswell L., Corinth, Miss. Folding crate for eggs and other products. No. 1,401,993; Jan. 3.
- Leonard, Caswell L., Corinth, Miss. Vegetable and fruit slicer. No. 1,402,777; Jan. 10.
- Leonard, Caswell L., Corinth, Miss. Meat tenderer. No. 1,402,778; Jan. 10.
- Leonard, Caswell L., Corinth, Miss. Garment hanger and brush. No. 1,409,738; Mar. 14.
- Leonard, Caswell L., Corinth, Miss. Ironing table. No. 1,411,854; Apr. 4.
- Leonard, Caswell L., Corinth, Miss. Portable writing desk. No. 1,413,745; Apr. 25.
- Leonard, Charles H., assignor to Grand Rapids Refrigerator Company, Grand Rapids, Mich. Refrigerator. No. 1,423,532; July 25.
- Leonard, Chester S., Lansdowne, Pa. Date-depitting machine. No. 1,421,505; July 4.
- Leonard, Cyrus J. (See Peabody, William L., assignor.)
- Leonard, Don Carlos, Greenville, S. C. Motor drive for looms. No. 1,406,878; Feb. 14.
- Leonard, Elof R., Mountain Lakes, N. J. Fireproof door. No. 1,402,874; Jan. 10.
- Leonard, Elof R., Mountain Lakes, N. J. Waste chute. No. 1,436,452; Nov. 21.
- Leonard Engineering Company. (See Leonard, J. B., and Dirzuweit, assignors.)
- Leonard, Frank B., Chicago, Ill. Hat support. No. 1,424,833; Aug. 8.
- Leonard, George I., Chicago, Ill. Compressor. No. 1,424,312; Aug. 1.

Alphabetical list of patentees—Continued.

- Leonard, Harry A., assignor to Draper Corporation, Hopedale, Mass. Spinning or winding machine. No. 1,412,808; Apr. 11.
- Leonard, Herbert C., Acushnet, and H. E. Westmont, assignors to G. L. Sprague, New Bedford, and W. A. Reynolds, Freeton, Mass. Drill press. No. 1,432,027; Oct. 17.
- Leonard, John B., and J. F. Dirzuweit, Baltimore, Md., assignors, by mesne assignments, to Leonard Engineering Company. Stoker furnace. No. 1,403,609; Jan. 17.
- Leonard, Joseph, New York, N. Y., assignor to Fifth Avenue Corset Company, Allentown, Pa. Hose supporter. No. 1,427,960; Sept. 5.
- Leonard, Norris C., Baltimore, Md. Sanitary trap. No. 1,418,941; June 6.
- Leonard Roller Gear Drive Thresher Company, The. (See Leonard, William C., assignor.)
- Leonard, William B., Chicago, Ill. Column clamp. No. 1,403,042; Jan. 10.
- Leonard, William C., assignor to The Leonard Roller Gear Drive Thresher Company, Lewiston, Idaho. Automobile wheel. No. 1,432,763; Oct. 24.
- Leoni, Alfonso M., Philadelphia, Pa., assignor, by mesne assignments, to Steimetz Electric Motor Car Corporation, Baltimore, Md. Vehicle frame construction. No. 1,415,372; May 9.
- Leoni, Alfonso M., Baltimore, Md., assignor, by mesne assignments, to The Dayton Steel Foundry Company, Dayton, Ohio. Truck wheel. (Reissue.) No. 15,367; May 30.
- Leoni, Alfonso M., Philadelphia, Pa., assignor, by mesne assignments, to Steimetz Electric Motor Car Corporation, Baltimore, Md. Fan mounting for motor vehicles. No. 1,426,301; Aug. 15.
- Leoni, Alfonso M., Philadelphia, Pa., assignor, by mesne assignments, to Steimetz Electric Motor Car Corporation, Baltimore, Md. Front-axle construction. No. 1,426,302; Aug. 15.
- Leoni, Alfonso M., and A. Tischer, Philadelphia, Pa., assignor, by mesne assignments, to Steimetz Electric Motor Car Corporation, Baltimore, Md. Universal joint and brake-drum unit. No. 1,415,371; May 9.
- Leopold, Cassella, & Co., Gesellschaft mit beschränkter Haftung. (See Benda, Louis, assignor.)
- Leopold Cassella & Co., Gesellschaft mit beschränkter Haftung. (See Schmidlin, Julius, assignor.)
- Leopold, George O., assignor to North Bro's Mfg Co., Philadelphia, Pa. Socket wrench. No. 1,434,128; Oct. 31.
- Le Page, Jules, Darlington, Ind. Machine for making steel-cut cereals. No. 1,437,429; Dec. 5.
- Leparmetier, Ferdinand F., Paris, France. Ship. No. 1,406,659; Feb. 14.
- Le Petrie, William C., Montreal, Quebec, Canada. Chocolate, beater. No. 1,433,959; Oct. 31.
- Le Piane, Frank, Trenton, N. J. Level indicator for gasoline tanks. No. 1,432,069; Oct. 17.
- Lépine, Charles, Turin, Italy, assignor to H. de Ruyter, Paris, France. Apparatus for direct vision or for projection of separate transparent photographic views upon films or the like. No. 1,437,112; Nov. 28.
- Lepley, Daniel F., Connellsville, Pa. Stop-latch-tripping mechanism. No. 1,403,124; Jan. 10.
- Lepley, Daniel F., Connellsville, Pa. Overspeed control for hoists. No. 1,419,154; June 13.
- Lepley, Daniel F., Connellsville, Pa. Hoisting mechanism. No. 1,419,155; June 13.
- Le Pontois, Anna, administratrix. (See Le Pontois, Leon J.)
- Le Pontois, Leon J., deceased, Lakewood; A. Le Pontois, administratrix, assignor to The Teagle Company, Cleveland, Ohio. Electric generator. No. 1,422,584; July 11.
- Leprestre, René, et al. (See Casale, Luigi, assignor.)
- Lerner, Abraham, Brooklyn, N. Y. Combined tie and fastener. No. 1,426,883; Aug. 22.
- Lerner, Sem, Peru, Mass. Oil for use in painting and varnishing. No. 1,432,110; Oct. 17.
- Lerol, Alfred, Frankfurt-on-the-Main. Flow-off and shut-off device for toilet cups. No. 1,413,853; Apr. 28.
- Le Rossignol, Robert, Harrow, England, assignor to Patent-Treuhand-Gesellschaft für Elektrische Glühlampen mit beschränkter Haftung, Berlin, Germany. Process and apparatus for sealing lamps. No. 1,430,118; Sept. 26.
- Le Roy, Edgar D., assignor to Mid-West Publishing Company, Waterloo, Iowa. Coupon advertisement. No. 1,409,348; Mar. 14.
- Leroy, Jules, Paris, France. Equilibrated device for transforming into circular motion the linear motion of the piston of a motor. No. 1,430,514; Sept. 26.
- Le Roy, Robert, Basin, Mont. Ore concentrator. No. 1,421,264; June 27.
- Le Roy-Tracy, Frederick, Sydney, New South Wales, Australia. Binding plate for office letter files and the like. No. 1,428,172; Sept. 5.
- Leschen, A., & Sons Rope Company. (See Leschen, Harry J., assignor.)
- Leschen, Harry J., Webster Groves, assignor to A. Leschen & Sons Rope Company, St. Louis, Mo. Calipers. No. 1,424,492; Aug. 1.
- Leschen, William F. (See Harder, Harry E., assignor.)
- Leshner, Earl W., Cleveland, Ohio. Shingle. No. 1,425,991; Aug. 15.
- Leshner, Earl W., Cleveland, Ohio. Shingle. No. 1,425,992; Aug. 15.
- Lesjak, Julius, Sygan, Pa. Gate-releasing device. No. 1,429,597; Sept. 19.
- Leskole, Air Valve Company. (See Holdrich, Andrew, assignor.)
- Lesley, Hugh, Philadelphia, Pa. Discharge indicator for storage batteries. No. 1,415,101; May 9.
- Leslie, Abner. (See Hammond, H. D., Achelpohl, and Leslie.)
- Leslie, Freeland D., Milton, assignor to B R E Manufacturing Company, Hyde Park, Mass. Hinge. No. 1,429,513; Sept. 19.
- Leslie, Freeland D., Milton, assignor to Bre Manufacturing Company, Hyde Park, Mass. Flushing tank. No. 1,430,571; Oct. 3.
- Leslie, James C., Dundee, Scotland. Driving of spinning spindles. No. 1,436,268; Nov. 21.
- Leslie, John H., et al. (See Campbell, Layard, assignor.)
- Leslie, John W., et al. (See Campbell, Layard, assignor.)
- Leslie, John W., Evanston, Ill. Wire-stretching tool. No. 1,430,388; Sept. 26.
- Leslie, John W., Evanston, Ill. Reenforcing girth. No. 1,437,525; Dec. 5.
- Leslie, Robert D., and F. E. H. Snowden, Perth, Western Australia, Australia. Vapor burner. No. 1,406,396; Feb. 14.
- Lessard, Alfred, Washington, D. C. Tag holder. No. 1,435,402; Nov. 14.
- Lessing, Albin, Jersey City, N. J. Photographic printing apparatus. No. 1,413,746; Apr. 25.
- Lessing, Rudolf, London, England. Separation of oils and pitch from tar. No. 1,405,234; Jan. 31.
- Lessing, Rudolf, High Holborn, London, England. Applying nickel carbonyl in manufacturing process. No. 1,436,662; Nov. 28.
- Lester, Charles A., Winona, Minn. Reflector for automobile headlights, etc. No. 1,417,926; May 30.
- Lester, George W., Daleview, Mont. Lock nut. No. 1,406,043; Feb. 7.
- Lester, Leonard J. (See Allen, Eugene, assignor.)
- Lester, William H., assignor to Illinois Watch Case Company, Elgin, Ill. Case for cigarettes and the like. No. 1,424,884; Aug. 8.
- Lester, William H., assignor to Illinois Watch Case Company, Elgin, Ill. Case for matches, cigarettes, and the like. No. 1,432,473; Oct. 17.
- Le Sueur, Ernest A., Ottawa, Ontario, Canada. Electrolytic cell. No. 1,431,014; Oct. 3.
- Letherby, John A., Midland, Ontario, Canada. Divided rail. No. 1,424,657; Aug. 1.
- Letmolee, Gust, Kandahar, Saskatchewan, Canada. Safety pin. No. 1,417,080; May 23.
- Letner, Irving E. (See Heath, Mary, assignor.)
- Letourneau, Eugene, Springvale, Me. Traffic signal. No. 1,426,489; Aug. 22.
- Letsch, Frederick W., Baltimore, Md. Matrix holder and elevator for typographical machines. No. 1,410,330; Mar. 21.
- Letsch, Frederick W., Baltimore, Md. Multiple magazine for typographic machines. No. 1,410,331; Mar. 21.
- Letsch, Frederick W., Baltimore, Md. Safety mechanism for typographic machines. No. 1,410,332; Mar. 21.
- Letsch, Frederick W., Baltimore, Md. Space-band mechanism. No. 1,430,018; Sept. 26.
- Letson, Jay, Cylinder, Iowa. Road-map holder and indicator. No. 1,439,247; Dec. 19.
- Lettich, Antone, San Francisco, Calif. Wall-radiator support. No. 1,419,575; June 13.
- Le Tual, John, Montreal, Quebec, Canada. Machine for removing snow from roadways. No. 1,410,582; Mar. 28.
- Letz, John H., assignor to The Letz Manufacturing Company, Crown Point, Ind. Roughage grinder. No. 1,403,698; Jan. 17.
- Letz, John H., assignor to The Letz Manufacturing Company, Crown Point, Ind. Universal grinder. No. 1,404,981; Jan. 31.
- Letz Manufacturing Company, The. (See Letz, John H., assignor.)
- Leu, Adolf, Hoboken, N. J. Horseshoe. No. 1,404,208; Jan. 24.
- Leu, Adolf, Hoboken, N. J. Coal car. No. 1,418,722; June 6.
- Leuckert, William, Astoria, N. Y. Combination lamp and mirror. No. 1,412,690; Apr. 11.
- Laudtke, Edward C., Laporte, Ind. Medicine dropper. No. 1,412,948; Apr. 18.
- Leumann, Richard, Chailly-sur-Lausanne, Switzerland. Wrapping and machine therefor. No. 1,424,363; Aug. 1.
- Leupold, Voelpel & Company. (See Stevens, John C., assignor.)
- Leunier, Harry W., Baltimore, Md. Cross-flag holder. No. 1,404,777; Jan. 31.
- Levalley, Christopher W. (See Fraser, D., Shafer, and Levalley.)
- Levalley, Helen P., et al., executors. (See Fraser, D., Shafer, and Levalley.)
- Le Valley, John M., Ionia, Mich. Snow leveler and packer. No. 1,416,563; May 16.
- Levedahl, Axel, Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Separator. No. 1,416,040; May 16.
- Levene, Albert H., Philadelphia, Pa. Locking mechanism for shelving and other articles. No. 1,423,861; July 25.

- Levenhagen, Frederick A., and J. W. Evans, Cleveland, Ohio. Paint oil and making the same. No. 1,407,469; Feb. 21.
- Levenson, Herbert S., Brooklyn, N. Y., assignor of one-tenth to G. J. Mashek, Newark, N. J. Composition of matter and making the same. No. 1,431,165; Oct. 10.
- Leveque, Bernard T., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for sewing buttons to shoe uppers. No. 1,415,250; May 9.
- Leveque, Bernard T., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work-spacing mechanism in buttonhole-sewing machines. No. 1,428,598; Sept. 12.
- Leverett, F. P., et al. (See Blanton, Fred D., assignor.)
- L'Evesque, Paul J., assignor to Compagnie Generale D'Electricite, Paris, France. Portable electric lamp. No. 1,432,876; Oct. 24.
- Levett, Alexander, New York, N. Y. Buffing or polishing wheel. No. 1,404,620; Jan. 24.
- Levey, Harlan, New York, N. Y. Luminous indicating button for keys. No. 1,438,839; Dec. 12.
- Levey, Thomas J. (See Bowers, William T., assignor.)
- Levey, Thomas J. (See Hartleb, R. C., and Levey.)
- Levick, Reuben P., et al. (See Hough, Samuel, assignor.)
- Leviston, David, New York, N. Y. Knockdown easel. No. 1,412,880; Apr. 18.
- Levin, Abraham L., New York, N. Y. Fuel-supply system for explosive engines. No. 1,403,508; Jan. 17.
- Levin, Isaac H., assignor to Electrolytic Oxy-Hydrogen Laboratories, Inc., New York, N. Y. Electrolytic gas generator. No. 1,434,548; Nov. 7.
- Levin, Nathan P., Detroit, Mich. Engine construction. No. 1,405,235; Jan. 31.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Armature bearing for railway locomotives. No. 1,404,306; Jan. 24.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Coal-mining apparatus. No. 1,406,660; Feb. 14.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Axle-journal box. No. 1,414,782; May 2.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Electric controller. No. 1,423,126; July 18.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Resistance. No. 1,433,960; Oct. 31.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining and loading machine. No. 1,437,526; Dec. 5.
- Levin, Walter S., and E. Wiet, assignors to National Safety Appliance Company, San Francisco, Calif. Operating means for permanent magnetic mechanism. No. 1,403,791; Jan. 17.
- Levine, Alex N. (See Marcy, Ira M., assignor.)
- Levine, Harry, Brooklyn, N. Y., assignor of one-half to United States Envelope Company, Springfield, Mass., and one-half to Samuel Cupples Envelope Company, St. Louis, Mo. Patch-applying mechanism. No. 1,406,661; Feb. 14.
- Levinson, David, New York, N. Y. Toy. No. 1,425,107; Aug. 8.
- Levinson, Joseph M., Los Angeles, Calif. Stapling device for shoes, etc. No. 1,421,265; June 27.
- Levinson, Maurice C. (See McCash, P. V., and Levinson.)
- Levinstein, Edgar, Boston, Mass. Vulcanization. No. 1,406,197; Feb. 14.
- Levinthal, Louis E. (See Di Napoli, Joseph, assignor.)
- Levis, John H., jr., assignor to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 1,435,931; Nov. 21.
- Levison, Edgar. (See White, Stanley J., assignor.)
- Levitan, Benjamin W., New York, N. Y. Framework of buildings. No. 1,419,868; June 13.
- Levitan, Mortimer. (See Winter, Frank, assignor.)
- Levitt, Arthur P., Los Angeles, Calif. Hollow wall construction. No. 1,407,349; Feb. 21.
- Levusove, Louis, New York, N. Y. Ringlet. No. 1,403,792; Jan. 17.
- Levy, Abraham H., New York, N. Y. Trade-dress model. No. 1,432,400; Oct. 17.
- Levy, Bertha, New York, N. Y. Hatbox. No. 1,405,050. Jan. 31.
- Levy, Charles M., assignor to Charles M. Levy & Son, New York, N. Y. Flexible chain. No. 1,426,884; Aug. 22.
- Levy, Charles M., & Son. (See Levy, Charles M., assignor.)
- Levy, Edward, London, England. Scissors. No. 1,423,127; July 18.
- Levy, Harold, New York, N. Y. Note holder. No. 1,405,850; Feb. 7.
- Levy, Henri G., San Francisco, Calif., assignor to R. H. Butters, Atlanta, Ga. Tire lock. (Reissue.) No. 15,282; Feb. 7.
- Levy, Henri G., San Francisco, Calif. Mixing-device agitator. No. 1,416,100; May 16.
- Levy, Henri G., San Francisco, Calif. Fluid mixer. No. 1,417,927; May 30.
- Levy, Henri G., San Francisco, Calif., assignor to R. H. Butters, Atlanta, Ga. Lock. No. 1,415,662; May 9.
- Levy, Howard S., et al. (See Giambiasi, Giovanni E., assignor.)
- Levy, Howard S., et al. (See Levy, Max, assignor.)
- Levy, Isidor J., assignor to Levy & Merzbach, New York, N. Y. Combined purse and vanity-case frame. No. 1,422,724; July 11.
- Levy, Joseph, Brooklyn, N. Y. Horn. No. 1,403,424; Jan. 10.
- Levy, Joseph L. (See Fredericks, Maurice B., assignor.)
- Levy, Leonard A., Cricklewood, assignor of one-half to R. H. Davis, London, England. Apparatus for use with respirators for the detection of small quantities of carbon monoxide. No. 1,414,194; Apr. 25.
- Levy, Lionel F., et al. (See Giambiasi, Giovanni E., assignor.)
- Levy, Lionel F., et al. (See Levy, Max, assignor.)
- Levy, Louis, Paris, France. Machine for molding chocolate and similar products. No. 1,425,395; Aug. 8.
- Levy, Marcel. (See Terrisse, H., and Levy.)
- Levy, Max, assignor to H. S. Levy and L. F. Levy, Philadelphia, Pa. Microscopic measuring machine. No. 1,414,142; Apr. 25.
- Levy, Norman C., New York, N. Y. Flexible chain. No. 1,426,885; Aug. 22.
- Levy, Samuel S., Mattapan, assignor to S. Levy, Boston, Mass. Building construction. No. 1,424,172; Aug. 1.
- Levy, Sarah. (See Levy, Samuel S., assignor.)
- Levy, Simon H., Chicago, Ill. Hand bag. No. 1,432,877; Oct. 24.
- Levy, William, Paterson, N. J. Traction lug. No. 1,403,610; Jan. 17.
- Levy, William, Paterson, N. J. Traction lug. No. 1,423,568; July 25.
- Levy & Merzbach. (See Levy, Isidor J., assignor.)
- Lewandowski, Stephen. (See Pokrzywa, W., Matyga, and Lewandowski.)
- Lewellen, Darcy E., assignor to Lewellen Manufacturing Company, Columbus, Ind. Thrust bearing. No. 1,422,585; July 11.
- Lewellen Manufacturing Company. (See Lewellen, Darcy E., assignor.)
- Lewers, George R., Brooklyn, assignor to Research Corporation, New York, N. Y. Oil-seal insulator. No. 1,429,914; Sept. 19.
- Lewinski, Alexander, assignor of one-tenth to W. R. Smith, Chicago, Ill. Peanut-blanching roller and method. No. 1,427,000; Aug. 22.
- Lewinson, Cecil. (See Hart, Alvin L., assignor.)
- Lewis, Abraham. (See Zsarnay, Bela, assignor.)
- Lewis, Alfred S., West Chester, Pa. Piston packing. No. 1,412,947; Apr. 18.
- Lewis, Anson F., Santa Barbara, Calif. Automobile lock. No. 1,421,353; June 27.
- Lewis, Arthur H. H., London, England. Self-instructor for games. No. 1,410,811; Mar. 28.
- Lewis, Arthur J., Stratford, Conn. Slide buckle. No. 1,425,396; Aug. 8.
- Lewis, Arthur J., Stratford, assignor to The Baird Machine Company, Bridgeport, Conn. Metal-forming machine. No. 1,417,397; May 23.
- Lewis, Charles, De Quincy, La. Comb. No. 1,439,248; Dec. 19.
- Lewis, Charles F., Chicago, Ill. Calendar and diary page. No. 1,415,883; May 16.
- Lewis, Charles H., Syracuse, N. Y. Steam generator. No. 1,410,533; Mar. 28.
- Lewis, Charles H., Syracuse, N. Y. Oil burner. No. 1,429,598; Sept. 19.
- Lewis, Elgie J., Middleport, N. Y. Fruit coring, sizing, and slicing machine. No. 1,415,458; May 9.
- Lewis, Elmer M., assignor to The Davis Sewing Machine Company, Dayton, Ohio. Manufacturing bicycle frames. No. 1,403,611; Jan. 17.
- Lewis, Evan J., Canonsburg, Pa. Hat hanger. No. 1,418,190; May 30.
- Lewis, Frank M., Chicago, Ill. Differential mechanism. No. 1,430,744; Oct. 3.
- Lewis, Frank M., Pimlico, London, assignor of one-half to B. S. A. Tools, Limited, Birmingham, England. Apparatus for forming the teeth of bevel gears. No. 1,412,311; Apr. 11.
- Lewis, Franklin C., New York, N. Y. String-bean-cutting machine. No. 1,433,630; Oct. 31.
- Lewis, Fred K., assignor to The Ashtabula Bow Socket Company, Ashtabula, Ohio. Vehicle top. No. 1,409,013; Mar. 7.
- Lewis, Frederick W., assignor to Chapin & Hollister Co., Providence, R. I. Chain. No. 1,405,851; Feb. 7.
- Lewis, G. B., Company. (See Hawkins, Kenneth, assignor.)
- Lewis, George A. and R. I., Lynn, Mass. Photographic apparatus. No. 1,427,750; Aug. 29.
- Lewis, George C., New York, N. Y. Apparatus for deposition and collection of suspended matter in gases. No. 1,402,302; Jan. 3.
- Lewis, George E., Ottumwa, Iowa. Woven basket. No. 1,408,367; Feb. 28.
- Lewis, George P., London, England. Combined gas generator and retort apparatus. No. 1,430,452; Sept. 26.
- Lewis, George P., London, England. Combined vertical retort and gas-generator apparatus. No. 1,430,453; Sept. 26.
- Lewis, George S., Rochester, N. Y. Leafed article. No. 1,420,324; June 20.

Alphabetical list of patentees—Continued.

- Lewis, George S., Oak Park, Ill., assignor to Mead Cycle Company. Manufacturing front forks of cycles. No. 1,403,257; Jan. 10.
- Lewis, George S., Oak Park, assignor to Mead Cycle Company, Chicago, Ill. Cycle-frame construction. No. 1,435,611; Nov. 14.
- Lewis, George T., Cherryvale, Kans. Fluid-current conveyor. No. 1,439,249; Dec. 19.
- Lewis, George W., assignor to Grinnell Washing Machine Company, Grinnell, Iowa. Clothes wringer. No. 1,411,443; Apr. 4.
- Lewis, Goodrich Q., Wheaton, Ill., assignor to William H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,403,175; Jan. 10.
- Lewis, Green, McAdam & Knowland. (See Lewis, W. K., and Weber, assignors.)
- Lewis, Guy V., Houston, Tex. Device for unscrewing and drawing pipes. No. 1,420,044; June 20.
- Lewis, H. R., Tool Co., The. (See Lowenstein, Louis, assignor.)
- Lewis, Harrison, Los Angeles, Calif. Adjustable handle. No. 1,405,712; Feb. 7.
- Lewis, Harry, and C. H. Pettey, Sioux City, Ia. Latch-controlling mechanism. No. 1,405,236; Jan. 31.
- Lewis, Harry A. (See Wood, Alan D., assignor.)
- Lewis, Harry A., Norristown, Pa. Work-handling apparatus for rolling mills. No. 1,413,600; Apr. 25.
- Lewis, Harry A., Norristown, Pa. Heat-treating apparatus. No. 1,425,499; Aug. 8.
- Lewis, Harry F., Buffalo, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Purification of anthraquinone. No. 1,420,198; June 20.
- Lewis, Harry F., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Purification of anthraquinone. No. 1,429,514; Sept. 19.
- Lewis, Harry P., Ottawa, Ontario, Canada. Switching device. No. 1,408,613; Mar. 7.
- Lewis, Harvey H., assignor to Henry Weis Manufacturing Company, Atchison, Kans. Supplemental tire. No. 1,432,878; Oct. 24.
- Lewis, Henry C., Charleston, W. Va., assignor to Charleston Electrical Supply Company. Hand-operated pressing tool. No. 1,433,389; Oct. 24.
- Lewis, Henry G., and W. S. Mayer, Philadelphia, Pa., assignors to Electric Service Supplies Company. Electric-lighting mechanism. No. 1,426,490; Aug. 22.
- Lewis, Herman E. (See Towle, Charles R., assignor.)
- Lewis, Isaac N., Montclair, N. J. Operating firearm. No. 1,430,660; Oct. 3.
- Lewis, Isaac N., Montclair, N. J. Firearm. No. 1,430,661; Oct. 3.
- Lewis, Isaac N., Montclair, N. J. Automatic pistol. No. 1,430,662; Oct. 3.
- Lewis, Isaac N., Montclair, N. J. Trigger mechanism for automatic firearms. No. 1,439,903; Dec. 26.
- Lewis, James C., Portland, Me. Vehicle elevating mechanism. No. 1,434,390; Nov. 7.
- Lewis, James R., Chicago, Ill. Tool for surfacing journal-box ends. No. 1,413,920; Apr. 25.
- Lewis, Jesse A. (See Brundt, W. C., and Lewis.)
- Lewis, Jesse A., and L. L. Rew, Niagara Falls, N. Y. Rail joint. No. 1,419,973; June 20.
- Lewis, John, and S. Davies, Briton Ferry, Wales. Indicator. No. 1,416,847; May 23.
- Lewis, John E., Wheaton, Ill. Gun-deflection angle and range-measuring instrument. No. 1,409,303; Mar. 14.
- Lewis, John F., San Francisco, Calif. Dispensing device. No. 1,434,061; Oct. 31.
- Lewis, John F., North Braddock, and J. W. Kagarise, Wilkensburg, Pa. Buckstay. No. 1,426,748; Aug. 22.
- Lewis, John H., Rhineland, Wis. Farming machine. No. 1,414,425; May 2.
- Lewis, John H., Cicero, Ill. Wall construction. No. 1,421,968; July 4.
- Lewis, John M. B., Lynchburg, Va. Stanchion support. No. 1,417,184; May 23.
- Lewis, John V. (See Fowler, E., and Lewis.)
- Lewis, Joseph C., Massillon, Ohio. Switch. No. 1,402,518; Jan. 3.
- Lewis, Joseph E. I., Hamilton, Ontario, Canada. Holdup protective device. No. 1,437,665; Dec. 5.
- Lewis, Joseph R. (See Straka, John, assignor.)
- Lewis, Joseph W., assignor to The Atlantic Refining Company, Philadelphia, Pa. Relief-valve structure. No. 1,432,111; Oct. 17.
- Lewis, Leroy M., assignor, by mesne assignments, to Central Automatic Sprinkler Company, Philadelphia, Pa. Dry-pipe valve for fire extinguishers. No. 1,415,881; May 16.
- Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling system. No. 1,405,527; Feb. 7.
- Lewis, Lloyd V., Wilkensburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling system. No. 1,407,287; Feb. 21.
- Lewis, Lloyd V., Wilkensburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic-controlling apparatus. No. 1,419,869; June 13.
- Lewis, Lloyd V., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling system. No. 1,423,862; July 25.
- Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,425,397; Aug. 8.
- Lewis, Lloyd V., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,428,894; Sept. 12.
- Lewis, Lloyd V., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automotive brake equipment. No. 1,438,317; Dec. 12.
- Lewis, Lowry, Pemberton, W. Va., assignor of one-half to S. Harnsberger, Warrenton, Va. Bottle case or container. No. 1,408,751; Mar. 7.
- Lewis Manufacturing Company. (See Hachmann, Frederick, assignor.)
- Lewis Manufacturing Company. (See Sewall, D. O., Miliken, and Hannafoord, assignors.)
- Lewis, Nancy T., et al. (See Tallman, Albert R., assignor.)
- Lewis, Nathan E., Plainfield, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Seal for furnace chambers of boilers. No. 1,402,779; Jan. 10.
- Lewis, Norman B. (See Schoettle, Frederick W., assignor.)
- Lewis, Orville O., Coldwater, Kans. Tremolo. No. 1,426,749; Aug. 22.
- Lewis, Otto L., Houston, Tex. Steering device and brake for tractors. No. 1,403,258; Jan. 10.
- Lewis, Otto L., Houston, Tex. Tractor. No. 1,403,259; Jan. 10.
- Lewis, Owen H., Hendrum, Minn. Spade knife. No. 1,408,368; Feb. 28.
- Lewis, Richard W., and S. McDonald, Detroit, Mich. Antiglare device. No. 1,435,014; Nov. 7.
- Lewis, Robert H., Omaha, Nebr. Leg attachment for furniture. No. 1,440,158; Dec. 26.
- Lewis, Robert I. (See Lewis, George A. and R. I.)
- Lewis, Robert L., et al. (See Tallman, Albert R., assignor.)
- Lewis, Robert W., assignor of one-half to G. Lee and one-half to A. H. Hughes and H. S. Curren, Rochester, N. Y. Clutch-controlling device. No. 1,409,739; Mar. 14.
- Lewis, Rollin C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Dial lock. No. 1,403,793; Jan. 17.
- Lewis, Samuel H., Richmond, Va. Steam-supply means for locomotive cylinders. No. 1,438,928; Dec. 12.
- Lewis, Thomas A., and A. L. Dunham, New York, N. Y., assignors to Branford Electric Company. Electric heater. No. 1,439,524; Dec. 19.
- Lewis, Thomas E., Alliance, Ohio. Window ventilation shield. No. 1,432,112; Oct. 17.
- Lewis, Thomas H., Fort Worth, Tex. Combined clamp and sealing means for liquid-containing receptacles. No. 1,409,458; Mar. 14.
- Lewis, W. Cary. (See Gelin, Charles A., assignor.)
- Lewis, Warren K., Newton, Mass., assignor to The Good-year Tire & Rubber Company, Akron, Ohio. Preparation of lampblack. No. 1,418,811; June 6.
- Lewis, Warren K., and W. Green, Newton, Mass. Distillation process. No. 1,437,980; Dec. 5.
- Lewis, Warren K., and R. E. Wilson, Cambridge, Mass. Production of finely-divided materials. No. 1,433,732; Oct. 31.
- Lewis, Warren K., Newton, and H. C. Weber, Milton, assignors to Lewis, Green, McAdam & Knowland, Boston, Mass. Flash-proofing fabrics. No. 1,434,549; Nov. 7.
- Lewis, Wilfred, Haverford, Pa. Leveling device for molders' flasks. No. 1,412,882; Apr. 18.
- Lewis, Wilfred, Haverford, Pa. Fastening device for removable cutter blades. No. 1,438,184; Dec. 12.
- Lewis, William G., Los Angeles, Calif. Water heater. No. 1,418,812; June 6.
- Lewis, William V., Kansas City, Mo. Drier. No. 1,409,740; Mar. 14.
- Lewis and Roth Corporation. (See Renke, Robert, assignor.)
- Lewis-Geer Mfg. Company. (See Geer, Benjamin D., assignor.)
- Lewis-Shepard Company. (See Lovejoy, Ralph M., assignor.)
- Lewis, Lewis, Hamilton, Ontario, Canada, assignor, by mesne assignments, to Cone Company of America, Wilmington, Del. Apparatus for the manufacture of ice-cream cones. (Reissue.) No. 15,327; Apr. 4.
- Lexander, George A., Belmont, Mass. Wrench. No. 1,419,870; June 13.
- Leyens, Louis E., Vicksburg, Miss. Printing machine and means for making the same. No. 1,437,981; Dec. 5.
- Leyner, John G., deceased, by L. M. Leyner, administratrix, Littleton, assignor to The Leyner Tractor and Manufacturing Company, Denver, Colo. Endless track or belt or chain tightening mechanism for traction engines and for other purposes. No. 1,419,156; June 13.
- Leyner, John G., deceased, by L. M. Leyner, administratrix, Littleton, assignor to The Leyner Tractor and Manufacturing Company, Denver, Colo. Tractor. No. 1,424,493; Aug. 1.

- Leyner, John G., deceased, by L. M. Leyner, administratrix, Littleton, assignor to The Leyner Tractor and Manufacturing Company, Denver, Colo. Driving mechanism for the ground-treading members of traction engines. No. 1,424,494; Aug. 1.
- Leyner, John G., deceased, by L. M. Leyner, administratrix, Littleton, assignor to The Leyner Tractor and Manufacturing Company, Denver, Colo. Automatically-operating oiling mechanism for the interior motor-driven parts of tractors. No. 1,424,495; Aug. 1.
- Leyner, Lina M., administratrix. (See Leyner, John G.)
- Leyner Tractor and Manufacturing Company. (See Leyner, John G., assignor.)
- Leyrer, Wayne W., Atlantic City, N. J. Figure wheeled toy. No. 1,411,737; Apr. 4.
- Leysieffer, Gustav, Troisdorf, near Cologne, Germany. Manufacture of molded articles from cellulose ethers. No. 1,427,690; Aug. 29.
- Leytens, Marcel, Antwerp, Belgium. Means for coupling tractors and trailers. No. 1,416,217; May 16.
- Leytham, Thomas. (See Kirstein, H. E., and Leytham.)
- Leytham, Thomas, assignor to Shur-On Optical Co., Inc., Rochester, N. Y. Ophthalmic mounting. No. 1,428,697; Sept. 12.
- Lhermitte, Georges, Nantes, France. Motion-transmitting apparatus. No. 1,417,398; May 23.
- Liady, Fred G., Cisco, Tex., assignor of one-half to A. Double, Los Angeles, Calif. Casing spear. No. 1,433,084; Oct. 24.
- Liale, John L., Redlands, Calif. Ironing board. No. 1,413,482; Apr. 18.
- Libbey, C. A., Company. (See Rasmussen, Robert F., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Brown, Wilbur F., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Callard, Robert P., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Crowley, J. P., and Rowley, assignors.)
- Libbey-Owens Sheet Glass Company, The. (See Crowley, John C., assignor.) (Reissue.)
- Libbey-Owens Sheet Glass Company, The. (See Crowley, Joseph P., assignor.)
- Libbey-Owens Sheet Glass Co., The. (See Deputy, Harry S., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Deulin, Fernand E., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Fowle, A. E., and Crowley, assignors.)
- Libbey-Owens Sheet Glass Company, The. (See Henshaw, Seth B., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Rowley, Clifford A., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Whittemore, James, assignor.)
- Libbrecht, Lawrence S., Fort Jennings, Ohio. Control for clutches. No. 1,407,940; Feb. 28.
- Libby, Hollis W. (See Farmer, C. D., and Libby.)
- Libby, Lewis L., Plainfield, assignor to H. T. Shriver, West Orange, N. J. Transmission-band lining. No. 1,405,601; Feb. 7.
- Libby, McNeill & Libby. (See Wilcox, Robert B., assignor.)
- Libby, McNeill & Libby, of Honolulu, Limited. (See Vaughan, Frank, assignor.)
- Liberty Bread Slicer Inc. (See Knapp, Walter C., assignor.)
- Liberty Manufacturing Company. (See Clergy, Louis J., assignor.)
- Liberty Power Saw Company. (See Diers, J. H., and Arneson, assignors.)
- Library Bureau. (See Ohnstrand, Enoch, assignor.)
- Licht, Carl H., Rushmore, Minn. Grain door. No. 1,432,879; Oct. 24.
- Lichtenberg, Erich H., assignor, by mesne assignments, to Koehring Company, Milwaukee, Wis. Lifting crane for concrete mixers. No. 1,402,168; Jan. 3.
- Lichtenberg, Erich H., assignor, by mesne assignments, to Koehring Company, Milwaukee, Wis. Machine for distributing concrete. No. 1,411,217; Mar. 28.
- Lichtenberg, Fred, and M. McCarthy, Yonkers, N. Y. Concrete partition. No. 1,406,989; Feb. 21.
- Lichtenberg, Fred, and M. McCarthy, Yonkers, N. Y. Building construction. No. 1,410,932; Mar. 28.
- Lichtenberg, Fred, and M. McCarthy, Yonkers, N. Y. Building construction. (Reissue.) No. 15,440; Aug. 29.
- Lichtenberger, Joseph A., assignor of one-third to T. E. Chigoy and one-third to C. H. Wilson, New York, N. Y. Drawer-knob-fastening means. No. 1,405,528; Feb. 7.
- Lichtenhahn, Theodor, Basel, assignor to Elektrizitätswerk Lanza, Gampel, and Basel, Switzerland. Manufacture of ethyl alcohol from acetaldehyde. No. 1,403,794; Jan. 17.
- Lichtenstein, David. (See Whaley, William B. S., assignor.)
- Lichtenstein, Louis, and C. O. Robertson, Wilmington, Del. Paper milk bottle and cap. No. 1,436,269; Nov. 21.
- Lichtenstein, Marvin, New York, N. Y. Animal head. No. 1,432,704; Oct. 17.
- Lichtenthaeler, Frank E., Newton Highlands, assignor to The Walter E. Lummus Company, Boston, Mass. Distilling column. No. 1,424,173; Aug. 1.
- Lichter, Malvin, New York, N. Y. Bank book. No. 1,419,065; June 6.
- Lick, Captiles A., assignor to Weldon, Williams, and Lick, Fort Smith, Ark. Ticket. No. 1,419,066; June 6.
- Lidberg, Tiodolf, Chicago, Ill. Sectional laboratory table. No. 1,435,015; Nov. 7.
- Liddell, George, London, England. Toilet fixture. No. 1,432,194; Oct. 17.
- Liddell, John G., Everett, assignor to Moore Pen Company, Boston, Mass. Mechanical pencil. No. 1,425,871; Aug. 15.
- Liddell, Moses V., Harvey, assignor to Austin Manufacturing Co., Chicago, Ill. Motor-driven pick-up sweeper. No. 1,416,041; May 16.
- Liddell, Moses V., Mattituck, N. Y., assignor to Austin Manufacturing Company, Chicago, Ill. Broom for sweepers. No. 1,418,088; May 30.
- Lide, Frank P., Decatur, Ala. Coil-box protector. No. 1,430,241; Sept. 26.
- Lidgerwood Manufacturing Company. (See Manges, Duff G., assignor.)
- Lidholm, Johan H., Wargon, Sweden. Producing cyanamide from calcium cyanamide. No. 1,436,179; Nov. 21.
- Lidholm, Johan H., Wargon, Sweden. Transforming cyanamide into urea. No. 1,436,180; Nov. 21.
- Lidstone, Edward S., Providence, R. I. Molding. No. 1,424,658; Aug. 1.
- Lie, Egil, Odda, Norway. Producing urea from cyanamide. No. 1,419,157; June 13.
- Liebau, Richard, New Haven, Conn., assignor to The Westinghouse Air Spring Company. Air-spring suspension. No. 1,410,933; Mar. 28.
- Liebau, Richard, New Haven, Conn., assignor to Westinghouse Air Spring Company. Air-spring suspension. No. 1,410,934; Mar. 28.
- Liebelt, Paul, New York, N. Y. Food chopper. No. 1,420,933; June 27.
- Lieber, William H., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Conveyor. No. 1,404,697; Jan. 24.
- Lieber, William H., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Conveyor. No. 1,433,390; Oct. 24.
- Lieberherr, Jakob, and R. Brunner, Islikon, Switzerland. Working machine. No. 1,438,443; Dec. 12.
- Lieberman, Adolph W., Cleveland, Ohio. Self-propelled railway car. No. 1,411,363; Apr. 4.
- Lieberman, Nathan L., Bayonne, N. J. Trolley wheel. No. 1,428,644; Sept. 12.
- Liebknecht, Otto, Frankfurt-on-the-Main, Germany. Producing alkali-metal cyanates. No. 1,406,662; Feb. 14.
- Liebman, Louis, New York, N. Y. Attachment for sewing machines. No. 1,434,299; Oct. 31.
- Liebowitz, Benjamin, New York, N. Y. Vehicle suspension. No. 1,422,586; July 11.
- Liebowitz, Benjamin, New Rochelle, N. Y. Vehicle suspension. No. 1,422,587; July 11.
- Liebowitz, Benjamin, New Rochelle, and J. Balsam, New York, N. Y.; said Liebowitz assignor to said Balsam. Automobile lock. No. 1,429,599; Sept. 19.
- Liebreich, Oscar P. (See Rathbun, S. S., and Liebreich.)
- Liebrich, Robert. (See Skinner, Burr R., assignor.)
- Liedabrand, Samuel E., Springfield, Ill. Trailer. No. 1,417,846; May 30.
- Liedabrand, Samuel E., Springfield, Ill. Trailer connection. No. 1,424,496; Aug. 1.
- Liedbeck, Carl H., Gottenberg, Sweden. Sealing of fluids in boreholes for oil wells. No. 1,407,873; Feb. 28.
- Liedtke, Hugo F., assignor to Pangborn Corporation, Hagerstown, Md. Sand-blast apparatus. No. 1,423,128; July 18.
- Lien, Erick K., San Diego, Calif. Paring knife. No. 1,436,811; Nov. 28.
- Lieniz, Edward J., deceased, San Francisco, Calif.; L. Lieniz, administratrix. Sliding side light for motor vehicles. No. 1,414,783; May 2.
- Lieniz, Lillian, administratrix. (See Lieniz, Edward J.)
- Lieser, Leo F., Sidney, Oowa. Attachment for carburetors. No. 1,422,871; July 18.
- Lietz, Charles J., Newark, N. J., assignor to Ideal Wrapping machine company. Feeding mechanism. No. 1,437,527; Dec. 5.
- Lifvendahl, Eric G., sr., Anacortes, Wash. Adjustable band-saw guide. No. 1,432,564; Oct. 17.
- Liggett, Milton, Seymour, Iowa. Poultry-feeding device. No. 1,431,472; Oct. 10.
- Liggett & Myers Tobacco Company. (See Smith, John D., assignor.)
- Light, Albert T., New York, N. Y. Ice-cream freezer. No. 1,430,572; Oct. 3.
- Light, Albert T., New York, N. Y. Freezer. No. 1,435,246; Nov. 14.
- Light, Bolivar L., Rogers, Ark. Marker for planter. No. 1,429,245; Sept. 19.
- Light Manufacturing & Foundry Company. (See Sackman, William H., assignor.)
- Light Metals Company. (See Thofehrn, Hermann G. C., assignor.)

Alphabetical list of patentees—Continued.

- Light Publishing Company. (See Breit, Martin M., assignor.)
- Light, Ralph A., and J. W. Price, Jr., assignors to The United States Metallic Packing Company, Philadelphia, Pa. Machine for sawing integrally-cast packing rings into segments. No. 1,413,668; Apr. 25.
- Lightburn, Robert W., Gans, Pa. Danger signal for mines. No. 1,429,211; Sept. 12.
- Lightenhome, Charles L., assignor to Lightenhome Oil & Refining Company, New York, N. Y. Producing hydrocarbon products. No. 1,434,300; Oct. 31.
- Lightenhome Oil & Refining Company. (See Lightenhome, Charles L., assignor.)
- Lightfield, John M., Chicago, Ill. Welding hood. No. 1,416,848; May 23.
- Lightfoot, Edwin N., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric heater. No. 1,403,330; Jan. 10.
- Lightfoot, Edwin N., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric heater. No. 1,403,331; Jan. 10.
- Lightfoot, Edwin N., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric heater. No. 1,433,465; Oct. 24.
- Lightfoot, Edwin N., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Feeder for melting pots. No. 1,437,528; Dec. 5.
- Lightfoot, Edwin N., New York, N. Y., assignor, by mesne assignments, to Otto E. Hansen and Sons, Perth Amboy, N. J. Electric heater. No. 1,440,305; Dec. 26.
- Lightner, Arthur D., and E. Holmes, assignors to The Willys-Overland Company, Toledo, Ohio. Elevating truck. No. 1,410,103; Mar. 21.
- Lightner, Arthur D., and E. Holmes, assignors to The Willys-Overland Company, Toledo, Ohio. Vehicle lifting means. No. 1,427,214; Aug. 29.
- Lightner, Harvey E., Tecumseh, Okla. Wrench. No. 1,420,116; June 20.
- Lightning Change Rim Corporation. (See Wilson, Edward F., assignor.)
- Lighttoller Company. (See Dahl, Thure, assignor.)
- Ligon, Arthur L., Pecos, Tex. Blacksmith's tool set. No. 1,411,970; Apr. 40.
- Ligon, Arthur L., Killeen, Tex. Demountable headstock for lathes. No. 1,422,994; July 18.
- Lihme, Iens P., Lakewood, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Making flaky sodium silicate. No. 1,403,556; Jan. 17.
- Liles, Dexter W. (See Finger, R. M., and Liles.)
- Lilienfeld, Leon, Vienna, Austria. Manufacture of dialkylsulphates. No. 1,427,215; Aug. 29.
- Liljegan, Ernest W., Medford, Oreg. Condenser. No. 1,434,301; Oct. 31.
- Lilleberg, Charles L., Chicago, Ill. Rotary plow. No. 1,415,663; May 9.
- Lilleberg, Charles L., Chicago, Ill. Rotary plow. No. 1,437,763; Dec. 5.
- Lillbridge, Harry D., Zanesville, Ohio, American Encaustic Tiling Company, Ltd., New York, N. Y. Car pusher. No. 1,413,669; Apr. 25.
- Lillbridge, Harry D., Zanesville, Ohio, assignor to American Encaustic Tiling Co., Ltd., New York, N. Y. Ceramic press. No. 1,430,019; Sept. 26.
- Lillbridge, Harry D., assignor to American Encaustic Tiling Co., Ltd., Zanesville, Ohio. Paper container. No. 1,436,990; Nov. 28.
- Lillie, Arthur C., Los Angeles, Calif. Windshield. No. 1,412,474; Apr. 11.
- Lillie, Arthur C., Los Angeles, Calif. Divided tonneau windshield. No. 1,412,475; Apr. 11.
- Lillie, Arthur C., Los Angeles, Calif. Windshield. No. 1,412,476; Apr. 11.
- Lilly, Cecil H. (See Cocking, A. T., and Lilly.)
- Limacher, Walter P., Pasadena, Calif. Bumper bracket. No. 1,407,350; Feb. 21.
- Limbach, Russell W., administrator. (See Warder, Walter J., jr.)
- Limbort, John W., Muncie, Ind. Jar closure. No. 1,432,764; Oct. 24.
- Limerick, Charles V., Hamilton, Ohio. Lock tack. No. 1,412,186; Apr. 11.
- Limerick, Samuel R. (See Sykes, J. P., and Limerick.)
- Limont, Alexander W., assignor to Bridgeport Brass Company, Bridgeport, Conn. Machine for sizing projectile bands. No. 1,415,459; May 9.
- Limousine Body Company. (See Miner, Charles A., assignor.)
- Limpert, Alexander S., Pittsburgh, Pa. Headlight. No. 1,421,506; July 4.
- Limpert, Katherine, New York, N. Y. Electric sign. No. 1,436,270; Nov. 21.
- Linaker, Frederick W., Dubois, Pa. Boiler-tube cleaner. No. 1,413,601; Apr. 25.
- Linaker, Frederick W., and T. M. Bruback, Dubois, Pa. Tube cleaner. No. 1,408,369; Feb. 28.
- Linaker, Frederick W., and T. M. Bruback, Dubois, Pa. Tube cleaner. No. 1,410,686; Mar. 28.
- Lincke, Alexander R. M., Zurich, and O. Lincke, Oerlikon, near Zurich, Switzerland. Hot-water heating system. No. 1,418,583; June 6.
- Lincke, Otto. (See Lincke, Alexander R. M. and O.)
- Lincks, George R., et al. (See Brown, Charles H., assignor.)
- Lincoln, Charles E., Boston, Mass. Exercising apparatus. No. 1,412,691; Apr. 11.
- Lincoln, Edward K., New York, N. Y. Screen. No. 1,408,370; Feb. 28.
- Lincoln, Ellis S., and E. Larsson, assignors to The Ohio Brass Company, Mansfield, Ohio. Trolley base. No. 1,439,740; Dec. 26.
- Lincoln, Irvin, Lansing, Mich. Conveyance. No. 1,439,008; Dec. 19.
- Lincoln, Joe D., and R. W. Ray, Drumright, Okla. Clothespin. No. 1,409,557; Mar. 14.
- Lincoln, John C., assignor to The Citizens Savings and Trust Company, Cleveland, Ohio. Means for starting and operating motor generators. No. 1,413,747; Apr. 25.
- Lincoln, Paul M., Pittsburgh, Pa. Electrical measuring instrument. No. 1,417,671; May 30.
- Lincoln, Paul M., Pittsburgh, Pa. Maximum-demand meter. No. 1,425,665; Aug. 15.
- Lincoln, Purd J., assignor to Gelders Manufacturing Company, Birmingham, Ala. Vaporizing attachment for carburetors. No. 1,425,108; Aug. 8.
- Lincoln, Rufus V. B., Escondido, Calif. Egg grader or scale. No. 1,432,880; Oct. 24.
- Lincoln Trust Company. (See Jespersen, Thomas, assignor.)
- Lincoln, Ward W., Rock Falls, Ill. Combination wagon and gocart. No. 1,406,397; Feb. 14.
- Lincoln, William W., Washington, D. C. Direction signal for automobiles. No. 1,411,499; Apr. 4.
- Lind, Jacob, Kansas City, Mo. Making electric conductors. No. 1,429,441; Sept. 19.
- Lind, John A., Brockton, Mass. Fuel-heating attachment for engines. No. 1,434,445; Nov. 7.
- Lind, Robert, Malden, Mass. Dust-removing ash-sifter housing. No. 1,432,474; Oct. 17.
- Lind, William, New York, N. Y. Tension-controlling device. No. 1,425,528; Aug. 15.
- Lindau, Charles I., Hurley, N. Mex. Weighing apparatus for liquids. No. 1,412,410; Apr. 11.
- Lindauer, Jules, Paris, France. Corset belt. No. 1,432,765; Oct. 24.
- Lindbeck, Carl J., Chicago, Ill. Cooking and heating stove. No. 1,413,040; Apr. 18.
- Lindberg, Charles A., assignor to Sturgis Steel Go-Cart Company, Sturgis, Mich. Child's carriage. No. 1,422,277; July 11.
- Lindberg, Charles A., assignor to Sturgis Steel Go-Cart Company, Sturgis, Mich. Adjustable support. No. 1,430,389; Sept. 26.
- Lindberg, Charles A., assignor to Sturgis Go-Cart Co., Sturgis, Mich. Wheel retainer. No. 1,431,242; Oct. 10.
- Lindberg, John F., Chicago, Ill. Steam generator. No. 1,406,044; Feb. 7.
- Lindberg, John F., Chicago. Governing mechanism for internal-combustion engines. No. 1,427,485; Aug. 29.
- Lindberg, Sam J., assignor to Crane Company, Chicago, Ill. Lapping metal pipe. No. 1,421,507; July 4.
- Lindblad, Harmon E., Brookline, Mass. Sheet-controlling apparatus. No. 1,439,315; Dec. 19.
- Linde Air Products Company, The. (See Haynes, Pierre E., assignor.)
- Linde Air Products Company, The. (See Wucherer, R., and Pollitzer, assignors.)
- Linde, Emil M. (See Hagberg, O. W., and Linde.)
- Lindecker, William J., San Francisco, Calif. Portable power-transmitting device. No. 1,415,460; May 9.
- Lindeman, John. (See Hedrich, W., and Lindeman.)
- Lindeman, John, and W. Hedrich, Trochu, Alberta, Canada. Drag. No. 1,438,655; Dec. 12.
- Lindemann, A. J., and Hoverson Company. (See Lorenz, Gustave C., assignor.)
- Lindemann, Walter C., Milwaukee, Wis. Reservoir for oil stoves. No. 1,417,672; May 30.
- Lindemon, James M., Glenarm, Md. Protector for circular saws. No. 1,409,741; Mar. 14.
- Linden, Alfred R., Dorchester, assignor to one-half to S. W. Campbell, Newton, Mass. Combination ratchet tool. No. 1,421,792; July 4.
- Linden, Gustaf, and A. G. Höjer, Sarangen, Nassjo, Sweden, assignors of one-third to E. O. G. Lundin, Sultsfred, Sweden. Variable-speed gearing. No. 1,405,237; Jan. 31.
- Linden, Louis P., London, England. Advertising sign. No. 1,412,692; Apr. 11.
- Linden, Lucien, London, England. Apparatus for treating effluent or other liquids and for the separation and recovery of matters of different densities. No. 1,432,766; Oct. 24.
- Linder, Harry N. J., Chicago, Ill. Figure toy. No. 1,424,659; Aug. 1.
- Linder, Oscar, assignor, by mesne assignments, to Ideal Roller and Manufacturing Company, Chicago, Ill. Roller. No. 1,404,209; Jan. 24.
- Linderman, B. A. (See Ernest, Ralph D., assignor.) (Re-issue.)
- Linderman, B. A. (See Schofield, Harold B., assignor.)
- Linderman, Harry V., Mansfield, Ohio. Manufacturing rail bonds. No. 1,426,397; Aug. 22.
- Lindermuth, Jacob, Summit Hill, Pa. Rail brace. No. 1,437,430; Dec. 5.
- Linderose, Ossian S., Philadelphia, assignor to Superior Radiator Company, Hanover, Pa. Radiator core for automobiles, etc. No. 1,403,176; Jan. 10.

- Lindgren, Frank O., Congress Park, Ill. Coffeepot. No. 1,432,070; Oct. 17.
- Lindgren, Frank O., Minneapolis, Minn. Machine for closing and tying sacks. No. 1,437,598; Dec. 5.
- Lindgren, Hans O., assignor to Aktiebolaget Separator, Stockholm, Sweden. Supporting strip for conical liner plates in the bowl of centrifugal separators. No. 1,427,486; Aug. 29.
- Lindgren, John, Chicago, Ill. Method and means for wrapping hair nets. No. 1,417,752; May 30.
- Lindhard, Povl T., Brooklyn, assignor to F. L. Smidth & Co., New York, N. Y. Grinding mill, etc. No. 1,437,599; Dec. 5.
- Lindhe, Berthil M., Madison, Wis. Rack. No. 1,404,778; Jan. 31.
- Lindholm, Arthur C., Springfield, Mass. Grinder fixture. No. 1,416,366; May 16.
- Lindholm, Arthur C., Springfield, Mass. Attachment for operating on valve-in-head constructions. No. 1,431,672; Oct. 10.
- Lindholm, Oscar, assignor of three-tenths to A. Ricker and two-tenths to G. Magnuson, Chicago, Ill. Automatic time-controlled draft regulator. No. 1,435,535; Nov. 14.
- Lindhorst, Frederick L., assignor to Detroit Torch & Manufacturing Company, Detroit, Mich. Burner. No. 1,420,850; June 27.
- Lindhorst, Frederick L., assignor to Detroit Torch & Manufacturing Company, Detroit, Mich. Handle. No. 1,420,851; June 27.
- Lindhorst, Frederick L., assignor to Detroit Torch & Manufacturing Company, Detroit, Mich. Fire pot. No. 1,428,790; Sept. 12.
- Lindig, Harry E., Sunbury, Pa. Toy electric railway. No. 1,418,151; May 30.
- Lindley, James F., assignor to Indiana Canning Machinery Company, Indianapolis, Ind. Pulping machine. No. 1,408,303; Feb. 28.
- Lindman, Konrad W., assignor, by mesne assignments, to Nordiska Kullager Aktiebolaget, Stockholm, Sweden. Ball bearing. No. 1,425,872; Aug. 15.
- Lindner, Arthur E., Brooklyn, assignor to The L. and H. Special Machine Co. Inc., New York, N. Y. Sewing machine. No. 1,406,266; Feb. 14.
- Lindner, Hans, Woodsboro, Tex. Tractor. No. 1,427,399; Aug. 29.
- Lindner, John C., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Relay. No. 1,439,561; Dec. 19.
- Lindquist, David L., Hartsdale, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Spring cable hitch. No. 1,418,089; May 30.
- Lindquist, Knut O. W., Chicago, Ill. Wrench. No. 1,411,285; Apr. 4.
- Lindquist, Knut O. W., Chicago, Ill. Music-leaf turner. No. 1,434,015; Oct. 31.
- Lindroos, John H., Brooklyn, N. Y. Ship structure. No. 1,417,260; May 23.
- Lindsay, David, jr., Wilmington, Del. Buckle. No. 1,430,663; Oct. 3.
- Lindsay, Frank, Detroit, Mich. Railway guard rail. No. 1,414,477; May 2.
- Lindsay, Hamilton, assignor to The Lindsay Wire Weaving Company, Cleveland, Ohio. Seam for woven-wire fabric. No. 1,440,159; Dec. 26.
- Lindsay, Harvey B., assignor to The Dry-Zero Corporation, Oakland, Calif. Combined motor and pump. No. 1,433,733; Oct. 31.
- Lindsay, Harvey B., assignor to The Dry-Zero Corporation, Oakland, Calif. Refrigerator. No. 1,437,529; Dec. 5.
- Lindsay, John G., et al. (See Montgomery, James P., assignor.)
- Lindsay, Leroy J., Seymour, Iowa. Steering-control device. No. 1,435,403; Nov. 14.
- Lindsay Light Company. (See Ryan, Lonnie W., assignor.)
- Lindsay, W. B., et al. (See Wynne, George E., assignor.)
- Lindsay, William, Chicago, Ill. Aeroplane propeller. No. 1,421,699; July 4.
- Lindsay, William G., Newark, N. J., assignor to The Celuloid Company. Pyroxylin composition and making same. No. 1,430,020; Sept. 26.
- Lindsay Wire Weaving Company, The. (See Lindsay, Hamilton, assignor.)
- Lindsey, Harry W., Jr. (See Green, C. F., and Lindsey.)
- Lindsey, Harry W., Jr., assignor to The Willys-Overland Company, Toledo, Ohio. Fuel-reserve supply system. No. 1,410,104; Mar. 21.
- Lindsey, Horace W., Atlanta, Ga. Emergency structure for railway cars. No. 1,417,185; May 23.
- Lindsey, Thomas H., et al. (See Morse, Robert B., assignor.)
- Lindström, Arvid, Vestrås, Sweden. Secondary windings for asynchronous motors. No. 1,406,566; Feb. 14.
- Lindstrom, Frank L., Bridgeport, Conn. Toy top. No. 1,428,106; Sept. 5.
- Lindstrom, Gustaf A., and G. Senn, Green Bay, Wis. Exerciser. No. 1,430,573; Oct. 3.
- Lindstrom, Nils J., Evansville, Minn. Nonskid-tire grip. No. 1,417,186; May 23.
- Lindsay, Robert, Canton, Ill. Mail box. No. 1,432,881; Oct. 24.
- Line, John M., Springfield, Mo. Cot. No. 1,403,425; Jan. 10.
- Line-A-Time Mfg. Co., The. (See Bishop, Thomas H., assignor.)
- Lineaweaver, William C., Fort Sill, assignor of one-half to W. Swift, Lawton, Okla. Plotter. No. 1,417,753; May 30.
- Lineaweaver, William C., Fort Sill, assignor of one-half to W. Swift, Lawton, Okla. Copy fastener. No. 1,425,873; Aug. 15.
- Linebarger, Charles E., Chicago, Ill. Hydrometer. No. 1,424,730; Aug. 1.
- Linebarger, Charles E., Chicago, Ill. Battery-temperature controller. No. 1,424,731; Aug. 1.
- Linebaugh, Edward R., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Feed gauge for printing presses. No. 1,430,911; Oct. 3.
- Linek, Anton G., Newburg Heights, Ohio. Universal hitch for garden tractors. No. 1,403,969; Jan. 17.
- Ling, Francis E. (See Reif, Joseph, assignor.)
- Ling, Jacob H., Detroit, Mich. Repeating phonograph. No. 1,418,584; June 6.
- Ling, Walter A., Dayton, Ohio. Belt-lacing device. No. 1,409,742; Mar. 14.
- Lingo, William T., Philadelphia, Pa. Finishing head for bolt-turning machines. No. 1,406,880; Feb. 14.
- Link Belt Company. (See Oull, Raymond W., assignor.)
- Link-Belt Company. (See Oakes, Frank J., assignor.)
- Link-Belt Company. (See Petersen, John H. D., assignor.)
- Link-Belt Company. (See Pierce, Harold S., assignor.)
- Link-Belt Company. (See Pratt, Howell D., assignor.)
- Link-Belt Company. (See Rapp, Axel G. J., assignor.)
- Link-Belt Company. (See Schott, Joseph F., assignor.)
- Link-Belt Company. (See Weiss, C. R., and Morrish, assignors.)
- Link, Charles W. (See Vanderveer, David E., assignor.)
- Link, Philipp, Newark, N. J. Counterbalancing device for steering-wheel posts. No. 1,425,109; Aug. 8.
- Link, Rolls P., Winchmore Hill, England. Air moistener. No. 1,418,942; June 6.
- Link, Vincent, Detroit, Mich., assignor to The Studebaker Corporation. Unit assemblage of motor adjuncts. No. 1,422,995; July 18.
- Linke, Louis. (See Thomas, Frank M., assignor.)
- Linley, Phillip B. (See Linley, Robert W., and P. B.)
- Linley, Robert W. and P. B., Fairfield, Conn. Priming valve. No. 1,421,793; July 4.
- Linn, Arthur P., Los Angeles, Calif. Bearing-sleeve puller. No. 1,408,614; Mar. 7.
- Linn, Nelson P., Minneapolis, Minn. Cooking utensil. No. 1,436,318; Nov. 21.
- Linn, Robert, Chicago, Ill. Resilient wheel for vehicles. No. 1,421,508; July 4.
- Linnig, Charles E., Peru, Ill. Engraver's clamp. No. 1,420,715; June 27.
- Linotte, Mathieu, assignor to Compagnie Manufacturiere Marcalex, Paris, France. Universal hand-operated machine tool. No. 1,404,533; Jan. 24.
- Linotype and Machinery Limited. (See Billington, John E., assignor.)
- Linotype and Machinery Limited. (See Carter, Robert D., assignor.)
- Linotype and Machinery Limited. (See Drake, T., and Carter, assignors.)
- Linotype and Machinery Limited. (See Holbourns, John G., assignor.)
- Linotype and Machinery Limited. (See Littler, John W., assignor.)
- Linotype and Machinery Limited. (See Spence, Fred, assignor.)
- Linotype and Machinery Limited. (See Stern, Carl L., assignor.)
- Lins, Fred E. (See Radechovsky, Frank, assignor.)
- Linscheid, Edward H., Arlington, Kans. Straw spreader for harvester thrashers. No. 1,420,716; June 27.
- Linscott, Charles W., McGraw, N. Y. Reducing corset. No. 1,434,062; Oct. 31.
- Linstrom, Nils E., Hayti, S. D. Automatic storm-sash adjuster and fastener. No. 1,411,216; Mar. 28.
- Linton, Morris, Moorestown, N. J., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Antinozing device for railway cars. No. 1,403,371; Feb. 28.
- Linz, Arthur, New York, N. Y., assignor to The Chemical Foundation, Incorporated. Dyeing. No. 1,414,029; Apr. 25.
- Linz, Arthur, New York, N. Y., assignor to The Chemical Foundation, Incorporated. Dyeing. No. 1,414,030; Apr. 25.
- Linz, Arthur, New York, N. Y., assignor to The Chemical Foundation, Incorporated. Dyeing. No. 1,414,031; Apr. 25.
- Lloud, Frank, assignor to Société Le Coke Industriel, St. Etienne, France. Apparatus for the separation of coke or carbon from slag or the like. No. 1,438,537; Dec. 12.
- Lloy, Paul, Passaic Park, N. J. Heel cushion. No. 1,403,970; Jan. 17.
- Lipowski, Zygmunt, Hoboken, N. J. Making cups. No. 1,403,043; Jan. 10.
- Lipp, Elmer L., et al. (See Stephens, Richard M., assignor.)
- Lipp, Gabrielle, New York, N. Y. Combined collapsible garment hanger and protector. No. 1,406,879; Feb. 14.
- Lippert, John P., East Cleveland, Ohio. Fluid trap. No. 1,420,045; June 20.

Alphabetical list of patentees—Continued.

- Lippert, Joseph, Jersey City, N. J. Gauge. No. 1,403,795; Jan. 17.
- Lippert, Paul, and T. E. Richards, Jr., Chicago, Ill. Transportation apparatus and method for use in driving tunnels. No. 1,404,036; Jan. 17.
- Lippincott, Fisher H., Philadelphia, Pa., assignor to The Victor Slicing Machine Co. Table-feeding mechanism for slicing machines. No. 1,439,476; Dec. 19.
- Lippincott, Fisher H., assignor to Lippincott-Carwen Corporation, Philadelphia, Pa. Automatic clutch. No. 1,440,160; Dec. 26.
- Lippincott, Fisher H., assignor to Lippincott-Carwen Corporation, Philadelphia, Pa. Driving mechanism. No. 1,440,161; Dec. 26.
- Lippincott, George A., Philadelphia, Pa. Striker plate for golf clubs. No. 1,423,341; July 13.
- Lippincott-Carwen Corporation. (See Lippincott, Fisher H., assignor.)
- Lippincott, Huelings, et al., receivers. (See Laussucq, Henri P. L., assignor.)
- Lippitz, Wilhelm, Jauer, Germany. Apparatus for planting potatoes and the like. No. 1,415,937; May 16.
- Lippman, Louis G., Yonkers, N. Y., and F. E. Dixon, Scotch Plains, N. J. Water heater. No. 1,405,789; Feb. 7.
- Lippman, Nathan, Brooklyn, N. Y. Undergarment. No. 1,414,986; May 2.
- Lippmann, Leopold J., New York, N. Y. Container. No. 1,412,361; Apr. 11.
- Lips, Jacob, Nieder-Urdorf, Switzerland. Machine for filing saws. No. 1,409,384; Mar. 14.
- Lipscomb, MacDonald E., Sweet Springs, Mo. Floor polisher. No. 1,417,673; May 30.
- Lipscomb, Robert S., assignor of one-half to G. Veith, Newport, Ky. Paint. No. 1,434,901; Nov. 7.
- Lipse, August, and J. Mangiaracina, New Orleans, La. Street marker. No. 1,424,416; Aug. 1.
- Lipsett, Thomas L. (See Slye, John Q., assignor.)
- Lipson, Max L., Detroit, Mich. Combined glove and mitten. No. 1,404,398; Jan. 24.
- Liquid Carbonic Company. (See Smith, Horace M., assignor.)
- Liquid Measuring Devices Corporation. (See Milligan, John F., assignor.)
- Lisenby, A. V. (See Livermore, John W., assignor.)
- Lisenby Manufacturing Company. (See Barber, Lewis R., assignor.)
- Lisenby Manufacturing Company. (See Fiese, Jesse T., assignor.)
- Lisenby Manufacturing Company. (See Livermore, John W., assignor.)
- Lisk Manufacturing Company, The. (See Keehn, Clarence C., assignor.)
- Liskow, Sigmund, assignor of one-half to H. Sway, Cincinnati, Ohio. Adjustable bracket and shelf. No. 1,429,042; Sept. 12.
- Lisle, Edwin. (See Watkins, Roy A., assignor.)
- Lissauer, Adolph W., North Tarrytown, assignor to W. L. Fleisher & Co., Inc., New York, N. Y. Humidity control. No. 1,409,221; Mar. 14.
- Lissauer, Adolph W., North Tarrytown, assignor to W. L. Fleisher & Co., Inc., New York, N. Y. Pressure regulator. No. 1,427,112; Aug. 29.
- Lissauer, Adolph W., and R. E. Keyes, assignors to W. L. Fleisher & Co., Inc., New York, N. Y. Dehumidifying air. No. 1,416,218; May 16.
- List, F. C. (See Donovan, John J., assignor.)
- List, Frank X., assignor to National Card Mounting Company, New York, N. Y. Carton formed of fibrous material such as cardboard. No. 1,408,752; Mar. 7.
- List, Frank X., assignor to National Card Mounting Company, New York, N. Y. Display box. No. 1,408,814; Mar. 7.
- List, Frank X., assignor to National Card Mounting Company, New York, N. Y. Display box. No. 1,429,442; Sept. 19.
- Lister, Charles H., North St. Paul, Minn. Hobbyhorse. No. 1,424,364; Aug. 1.
- Lister, Charles H., North St. Paul, Minn., assignor to Standard Conveyor Company. Gravity conveyor. No. 1,425,599; Aug. 15.
- Lister, William, Chicago, Ill. Rendering tank. No. 1,432,028; Oct. 17.
- Lister, William C. (See Petman, R., and Lister.)
- Litchfield, Charles A., Quincy, Mass. Headlight mechanism for vehicles. No. 1,434,218; Oct. 31.
- Litchfield, Herman C., Waukegan, Ill. Dispensing apparatus. No. 1,416,219; May 16.
- Litchfield, Paul W., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Building tires of the solid type. No. 1,424,134; July 25.
- Lite Products Corp. (See Creadon, James J., assignor.)
- Lite Products Corporation. (See Walters, Edward H., assignor.)
- Lithoprint Company of New York. (See Hale, Merle C., assignor.)
- Litle, Thomas J., jr., assignor to Cadillac Motor Car Company, Detroit, Mich. Hydrocarbon motor. No. 1,434,129; Oct. 31.
- Litreum, André E., Paris, France. Permutation lock for automobiles. No. 1,417,340; May 23.
- Littell, F. J., Machine Company. (See Littell, Frederick J., assignor.)
- Littell, F. J., Machine Co. (See Stevenson, Walter N., assignor.)
- Littell, Frederick J., assignor to F. J. Littell Machine Company, Chicago, Ill. Stock-handling mechanism. No. 1,421,354; June 27.
- Little, Ansel B., Atlanta, Ga. Cotton-baling apparatus. No. 1,437,530; Dec. 5.
- Little, Arthur D., Inc. (See Mork, H. S., and Esselen, assignors.)
- Little, Arthur D., Incorporated. (See Esselen, G. J., jr., and Mork, assignors.)
- Little, David A., and E. F. Marcha, assignor to The Paramount Cord Tire Company, Cleveland, Ohio. Puncture proof and blow-out proof device for pneumatic casings. No. 1,414,328; Apr. 25.
- Little, Earl W., Indianapolis, Ind. Bottle-capping machine. No. 1,420,325; June 20.
- Little Falls Fibre Company. (See Becker, Walter S., assignor.)
- Little, George H., assignor to R. J. Reynolds Tobacco Company, Winston-Salem, N. C. Machine for applying box tops. No. 1,419,576; June 13.
- Little, Harry E., Wichita, Kans. Insect swatter. No. 1,412,312; Apr. 11.
- Little, Howard N., and W. B. Gormely, Lockport, N. Y. Automatic lubricating device for rolling mills. No. 1,425,110; Aug. 8.
- Little, John, assignor to J. J. Larkin, St. Louis, Mo. Expandible boring tool. No. 1,415,590; May 9.
- Little, John C. (See Brown, James N., assignor.)
- Little, John R. (See Stern, William F., assignor.)
- Little, Joseph P., Statesville, N. C. Subsoiler attachment for plows. No. 1,427,305; Aug. 29.
- Little, Mary L., Los Angeles, Calif. Fruit funnel. No. 1,416,101; May 16.
- Little, Mary V. W. (See Little, William F., assignor.)
- Little, Robert H., Chicago, Ill. Dispensing machine. No. 1,413,340; Apr. 18.
- Little, William F., Nepperhan Heights, N. Y. Reflector for automobile headlamps. No. 1,427,216; Aug. 29.
- Little, William F., assignor to M. V. W. Little, Nepperhan Heights, N. Y. Automobile headlamp. No. 1,415,373; May 9.
- Littlefield, Augustine F., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole. No. 1,417,535; May 30.
- Littlefield, Augustine F., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Mechanism for use in shaping shoe uppers. No. 1,439,009; Dec. 19.
- Littlefield, Edgar E., Seattle, Wash. Intermittently operating apparatus. No. 1,404,155; Jan. 17.
- Littlefield, Florence I., Buffalo, N. Y. Garment-supporting attachment for the arms of theater chairs. No. 1,438,538; Dec. 12.
- Littlefield, Roy, Exira, Iowa. Spacer device for beehive frames. No. 1,440,090; Dec. 26.
- Littler, John W., Broadheath, assignor to Linotype and Machinery Limited, London, England. Flat-bed printing press. No. 1,409,743; Mar. 14.
- Littleton, Charles M., Madison, Wis. Thermostatic circuit closer. No. 1,432,113; Oct. 17.
- Littman Loxair Valve Corporation. (See Littman, Zeno, assignor.)
- Littman, Zeno, New York, N. Y., assignor to Littman Loxair Valve Corporation. Valve. No. 1,419,678; June 13.
- Littman, Zeno, New York, N. Y., assignor to Littman Loxair Valve Corporation. Pneumatic valve. No. 1,419,679; June 13.
- Litvak, Harry, Hudson, N. Y. Bedstead and bed spring. No. 1,411,636; Apr. 4.
- Litwiller, Thomas. (See Leader, J., Litwiller, and Getz.)
- Litzenberg, William R., et al. (See Plath, Theodore C., assignor.)
- Liuni, Salvatore, Philadelphia, assignor of one-third to R. Koon and one-third to D. Caimi, Philadelphia, Pa. Amusement device. No. 1,417,754; May 30.
- Liva, Philipp, Brooklyn, N. Y. Wire-bending machine. No. 1,422,455; July 11.
- Livengood, Winfield S., assignor to A. A. Kramer, Kansas City, Mo. Equalizing hoist. No. 1,417,187; May 23.
- Livengood, Winfield S., assignor to A. A. Kramer, Kansas City, Mo. Brake for hoists. No. 1,425,600; Aug. 15.
- Liverance, Frank E., Jr. (See Finney, Arthur A., assignor.)
- Livergood, Gerald R., Houston, Tex. Pump plunger. No. 1,425,398; Aug. 8.
- Livermore, Homer F., Boston, Mass. Means for operating picker sticks. No. 1,411,637; Apr. 4.
- Livermore, Homer F., Boston, Mass. Drop-wire bar for looms. No. 1,433,558; Oct. 31.
- Livermore, John W., assignor of one-half to Lisenby Manufacturing Company, Fresno, Calif. Friction clutch. No. 1,411,110; Mar. 28.
- Livermore, John W., assignor of one-half to A. V. Lisenby, Fresno, Calif. Grouser attachment for tractors. No. 1,418,585; June 6.
- Livesay, Robert C. (See Wilson, F. D., and Livesay.)
- Livesay, Robert C., assignor to Deere & Company, Moline, Ill. Pitman connection. No. 1,437,666; Dec. 5.
- Livesey, Andrew, Manchester, England. Spreading roller for web materials. No. 1,435,712; Nov. 14.

- Livingood, Walter H., Berkeley, Calif. Piston for internal-combustion engines. No. 1,404,621; Jan. 24.
- Livingston, Alfred. (See Severson, I. M., and Livingston.)
- Livingston, Fred N., Seattle, Wash. Fuel mixer. No. 1,406,398; Feb. 14.
- Livingston, Frederick H., assignor to W. J. Vogt, Binghamton, N. Y. Phonograph construction and housing. No. 1,424,835; Aug. 8.
- Livingston, Fremont P., Denver, Colo. Condenser for automobile radiators. No. 1,431,965; Oct. 17.
- Livingston, George L., et al. (See Hachalacht, Michael, assignor.)
- Livingston, Samuel B., Wilson, Pa. Clutch lock. No. 1,414,884; May 2.
- Ljungström, Fredrik, Brevik, Lidingsö, assignor to Aktiebolaget Ljungström Angturbin, Stockholm, Sweden. Friction gearing. No. 1,406,665; Feb. 14.
- Ljungström, Fredrik, Brevik, Lidingsö, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Means for effecting draft in locomotive boilers. No. 1,420,380; June 20.
- Ljungström, Fredrik, Brevik, Lidingsö, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Turbine-driven locomotive. No. 1,422,111; July 11.
- Ljungström, Fredrik, Brevik, Lidingsö, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Locomotive and the like provided with air cooler for condensing purposes. No. 1,429,356; Sept. 19.
- Ljungström, Fredrik, Brevik, Lidingsö, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Locomotive and the like provided with condensers. No. 1,429,357; Sept. 19.
- Ljungström, Fredrik, Brevik, Lidingsö, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Locomotive. No. 1,429,746; Sept. 19.
- Ljungström, Fredrik, Brevik, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Air-cooled condenser. No. 1,435,612; Nov. 14.
- Ljungström, Fredrik, Brevik, Lidingsö, Sweden, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Turbine-driven locomotive. No. 1,437,321; Nov. 28.
- Ljungström, Fredrik, Brevik, Lidingsö, and I. Broberg, Tallhyddan Lidingsö, Sweden, assignors to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Locomotive condenser. No. 1,407,072; Feb. 21.
- Llewellyn, Ernest A., assignor to G. H. Bass & Company, Wilton, Me. Moccasin. No. 1,410,105; Mar. 21.
- Llewellyn, William O., Wilkes-Barre, Pa. Automatic block and deadlatch. No. 1,438,046; Dec. 5.
- Lloyd, Charles, Baltimore, Md. Power transmission. No. 1,402,626; Jan. 3.
- Lloyd, Edwin, and E. W. Lowry, assignors to Candle-Lette, Limited, London, England. Lamp. No. 1,403,089; Jan. 10.
- Lloyd, Edwin C. J., Jeannette, Pa. Box and attachment therefor. No. 1,423,442; July 18.
- Lloyd, Frank L., Baltimore, Md., assignor to The Crown Cork and Seal Company of Baltimore City. Packaging apparatus. No. 1,417,536; May 30.
- Lloyd, Frank L., assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Crowning machine. No. 1,438,769; Dec. 12.
- Lloyd, George. (See Hayden, Robert B., assignor.)
- Lloyd, Henry G., Surbiton, and C. A. Spon, Orpington, England. Fluid-current motor. No. 1,413,411; Apr. 18.
- Lloyd, Herbert D., Kent, Conn., assignor to Trailer Transportation Company, New York, N. Y. Controlling device for trailer vehicles. No. 1,432,401; Oct. 17.
- Lloyd, James W., Vancouver, British Columbia, Canada. Duck decoy. No. 1,437,764; Dec. 5.
- Lloyd, John T., assignor to Automatic Machinery and Equipment Company, Philadelphia, Pa. Milling and grinding apparatus. No. 1,434,180; Oct. 31.
- Lloyd, Levie F., Lexington, Ky. Feed tub. No. 1,435,404; Nov. 14.
- Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, to Heywood-Wakefield Company, Boston, Mass. Reed article and producing same. No. 1,412,623; Apr. 11.
- Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, to L. H. Greenwood and G. A. Keyworth, Gardner, and W. E. Holman, Leominster, Mass., trustees. Reed article and producing it. No. 1,438,185; Dec. 12.
- Lloyd, Thomas C., assignor to Irving Drew Company, Portsmouth, Ohio. Shoe. No. 1,427,607; Aug. 29.
- Lloyd, Thomas H., assignor to Wyckoff & Lloyd Company, Springfield, Mass. Chaser-adjusting tool. No. 1,415,182; May 9.
- Lloyd, Walter J., Stuart, Fla. Fishing appliance. No. 1,410,817; Mar. 28.
- Lobb, George, Selma, Calif. Rotary pump. No. 1,428,173; Sept. 5.
- Lobdell, Edward J., jr., assignor to The American Wood Rim Company, Onaway, Mich. Steering-wheel construction. No. 1,427,487; Aug. 29.
- Lobeck, Oskar, Leipzig, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Means for stiffening textile fabrics. No. 1,421,700; July 4.
- Lobel, Herman, assignor to Compression Tube & Tire Co., Los Angeles, Calif. Tire. No. 1,423,232; July 18.
- Lobel, Herman, assignor to A. H. Honey, Los Angeles, Calif. Pneumatic tire. No. 1,434,661; Nov. 7.
- Lobl, Frederick, Middleboro, Mass. Hose clamp. No. 1,432,882; Oct. 24.
- Lobnitz & Company Limited. (See Bedgood, Hubert O., assignor.)
- Lobo, Ernesto. (See Cruces, S., and Lobo.)
- Loch, Jacob G., and C. Di Battista, Berwick, Pa. Plastic composition for flush tanks. No. 1,438,840; Dec. 12.
- Lochhead, George, Los Angeles, Calif. Capping machine. No. 1,439,673; Dec. 19.
- Lochhead, Robert, assignor to Tyer Rubber Company, Andover, Mass. Tobacco pouch. No. 1,409,959; Mar. 21.
- Lochina, Kajetan, Schenectady, N. Y. Padlock. No. 1,406,567; Feb. 14.
- Locke, Burton H., New Britain, Conn. Snap gauge. No. 1,436,181; Nov. 21.
- Locke, Edward B., and J. P. Murray, Detroit, Mich., assignors, by mesne assignments, to The Computing Scale Company, Dayton, Ohio. Pivot mounting for weighing scales. No. 1,431,966; Oct. 17.
- Locke, Fred M., Victor, N. Y. Glass. No. 1,431,166; Oct. 10.
- Locke Insulator Corporation. (See Goddard, Walter T., assignor.)
- Locke Insulator Corporation. (See Gouverneur, Minor F. H., assignor.)
- Locke Insulator Corporation. (See Stevens, Frank J., assignor.)
- Locke, Nathan A., Fulton, N. Y. Antirattling joint for steering gears. No. 1,408,213; Feb. 28.
- Locke, Nathan A., Fulton, N. Y. Antirattling joint for steering gears. No. 1,418,005; May 30.
- Locker, John B., St. Louis, Mo. Alarm. No. 1,421,267; June 27.
- Lockett, A. M., & Co. (See Nelson, Bernard S., assignor.)
- Lockett, A. M., & Co. Ltd. (See Lockett, Andrew M., assignor.)
- Lockett, Andrew M., assignor to A. M. Lockett & Co., Ltd., New Orleans, La. Liquid-fuel burner. No. 1,432,071; Oct. 17.
- Lockhart, Charles F., and E. H. Roby, Cleveland, Ohio. Washing machine. No. 1,418,586; June 6.
- Lockhart, Charles F., and E. H. Roby, Cleveland, Ohio. Washing-machine pounder. No. 1,418,587; June 6.
- Lockhart, Harold J., assignor to The Parkersburg Rig & Reel Company, Parkersburg, W. Va. Sand-reel drive. No. 1,402,237; Jan. 3.
- Lockhart, James A., assignor to Pitho Plastic Board Company, Inc., Buffalo, N. Y. Wall board and plaster composition adapted thereto. No. 1,423,659; July 25.
- Lockhart, William E., Houston, Tex. Photoprinter. No. 1,412,693; Apr. 11.
- Lockley, Harry W., New Castle, Pa. Dredging pump. No. 1,401,994; Jan. 3.
- Lockman, Charles D., and C. Postel, jr., assignors of one-third to H. C. Krom, Indianapolis, Ind. Utensil lifter. No. 1,435,405; Nov. 14.
- Lockwood, Burns D., Bellevue, Pa. Speed-controlling device for shafts. No. 1,439,827; Dec. 26.
- Lockwood, Burns D., Bellevue, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Vehicle wheel. No. 1,420,199; June 20.
- Lockwood, John A., Fillmore, N. Y. Illuminating apparatus. No. 1,421,509; July 4.
- Lockwood, Nelson A., Ogden, Utah. Knife-setting machine. No. 1,405,790; Feb. 7.
- Lockwood, Nelson A., Ogden, Utah. Plug-valve installation for tanks. No. 1,436,349; Nov. 21.
- Lockwood, William H., Fort Wayne, Ind. Multiple-lock pump. No. 1,439,904; Dec. 26.
- Locomobile Company, The. (See Alborn, Frans G., assignor.)
- Locomobile Company, The. (See Cowles, Thomas L., assignor.)
- Locomobile Company, The. (See Garno, George E., assignor.)
- Locomobile Company, The. (See Roos, Delmar G., assignor.)
- Locomobile Company, The. (See Winblad, Niklas, assignor.)
- Locomotive Feed Water Heater Company. (See Averill, Earl A., assignor.)
- Locomotive Stoker Company. (See Jackson, R. E., and Yearwood, assignors.)
- Locomotive Stoker Company. (See Hogg, Francis, assignor.)
- Locomotive Stoker Company. (See Lower, Nathan M., assignor.)
- Locomotive Stoker Company. (See Osborne, Lonnie E., assignor.)
- Loder, Howard W., Montclair, N. J., assignor to American Chain Company, Incorporated, Bridgeport, Conn. Chain-tire-grip tightener. No. 1,404,307; Jan. 24.
- Loder, Howard W., Towaco, N. J., assignor to American Chain Company, Incorporated, Bridgeport, Conn. Chain tire grip and tightener therefor. No. 1,416,300; May 16.
- Lodge, Clara A., administratrix. (See Woolard, H., and Lodge.)
- Lodge, Edwin W., Norfolk, assignor of one-fourth to F. D. Cock, Hampton, Va. Headlight screen. No. 1,428,895; Sept. 12.

Alphabetical list of patentees—Continued

- Lodge, Edwin W., Norfolk, assignor of one-fourth to F. D. Cock, Hampton, Va. Headlight screen. No. 1,430,390; Sept. 26.
- Lodge, John H. F. (See Woolard, H., and Lodge.)
- Lodge, Thomas H., Johannesburg, Transvaal, South Africa. Joiner's trenching tool. No. 1,432,072; Oct. 17.
- Lodge & Shipley Machine Tool Company, The. (See Cockburn, F. B., and Bird, assignors.)
- Loeb, Henry, et al. (See Hale, Noah, assignor.)
- Loeb, Herbert B., Philadelphia, Pa. Amusement device. No. 1,425,264; Aug. 8.
- Loeb, Louis L. (See Roberson, Victor L., assignor.)
- Loeb, Rudolf, Jenkintown, Pa. Tension mechanism. No. 1,401,995; Jan. 3.
- Loeb, Rudolf, Jenkintown, Pa. Mechanical movement. No. 1,411,855; Apr. 4.
- Loeb, Rudolf, Jenkintown, Pa. Means for cutting fabrics. No. 1,421,969; July 4.
- Loeb-Strongson Corporation. (See Strongson, Herman L., assignor.)
- Loebe, Herman E., Jersey City, N. J. Gas heater. No. 1,430,391; Sept. 26.
- Loeben, Gustave A., Philadelphia, Pa., assignor to Premier Appliance Company, Wilmington, Del. Dispenser for fluid material. No. 1,403,426; Jan. 10.
- Loeber, Edgar O., Lakewood, Ohio. Snow-removing machine. No. 1,409,744; Mar. 14.
- Loeffler, Fritz, Yonkers, N. Y. Automobile. No. 1,439,011; Dec. 19.
- Loeffler, Fritz R., Heidelberg, Germany. Lubricating journal box for shaft couplings. No. 1,439,010; Dec. 19.
- Loeffler, George, New York, and M. J. Cohen, Brooklyn, N. Y. Hydrocarbon engine. No. 1,414,987; May 2.
- Loeffler, Joseph E., St. Louis, Mo. Fence. No. 1,429,084; Sept. 12.
- Loeher, William, Sheboygan, Wis. Sanding drum. No. 1,412,289; Apr. 11.
- Loeffler, William C., Pittsburgh, Pa. Thrust bearing. No. 1,435,167; Nov. 14.
- Loepsinger, Albert J. (See Kennedy, W. A., and Loepsinger.)
- Loepsinger, Albert J., Providence, R. I., assignor to General Fire Extinguisher Company, New York, N. Y. Dry-pipe valve. No. 1,411,921; Apr. 4.
- Loepsinger, Albert J., Providence, R. I., assignor to General Fire Extinguisher Company, New York, N. Y. Sprinkler head. No. 1,439,176; Dec. 19.
- Loepsinger, Albert J., Edgewood, assignor to General Fire Extinguisher Company, Providence, R. I. Sprinkler head. No. 1,439,177; Dec. 19.
- Loeven, Harry, Douglas, Arizona. Combined crusher and mill. No. 1,404,982; Jan. 31.
- Loeven, Harry, Douglas, Ariz. Combination crusher and mill. No. 1,409,558; Mar. 14.
- Loeven, Harry, Douglas, Ariz. Amalgamator. No. 1,418,006; May 30.
- Loew, Charles H., and J. R. Gruetter, assignors to The Loew Manufacturing Company, Cleveland, Ohio. Label separator and remover for bottle washing apparatus. No. 1,423,342; July 18.
- Loew Manufacturing Company, The. (See Loew, C. H., and Gruetter, assignors.)
- Loewenbach, Oscar, Milwaukee, Wis. Detachable cover for pads, books, etc. No. 1,415,591; May 9.
- Loewenthal, Gustave C., New York, N. Y. Sign and the like. No. 1,428,698; Sept. 12.
- Loewenthal, Moritz, Lichtenfelde, near Berlin, and Fritz Egersdörfer, Charlottenburg, near Berlin, Germany. Apparatus for hoisting oil, brine, or other liquids from wells. No. 1,403,699; Jan. 17.
- Loewer, Henry F., Rochester, N. Y. Turning lasts and machine used in such method. No. 1,410,333; Mar. 21.
- Loeffler, Edmund. (See de Lukacevics, C., and Loeffler.)
- Loeffler, Reinhold, assignor to Aktiengesellschaft für Anilin Fabrikation, Berlin, Germany. Steam trap. No. 1,426,205; Aug. 15.
- Löfgren, Albert O. M., assignor to A. G. M. Hernmarck, Djursholm, and O. R. Gronkqvist, Stockholm, Sweden. Portable sawing mechanism. (Reissue.) No. 15,294; Feb. 28.
- Löfgren, Albert O. M., assignor to A. G. M. Hernmarck, Djursholm, and O. R. Gronkqvist, Stockholm, Sweden. Device for guiding, supporting, and carrying an apparatus for felling of trees, cutting of trunks, and the like. No. 1,410,198; Mar. 21.
- Lofland, Alfred M., Lebanon, assignor of one-half to L. C. Willis, Indianapolis, Ind. Metal wheel. No. 1,412,123; Apr. 11.
- Lofland, George A., New York, N. Y. Direct-reading proportional calculating scale. No. 1,404,450; Jan. 24.
- Loforese, Gaetano, Greenwich, Conn. Automobile attachment. No. 1,427,080; Aug. 22.
- Lofstrom, Fredrik E., Elmira, N. Y. Ball and roller bearing. No. 1,420,852; June 27.
- Loflin, Edward H., Washington, D. C., and H. H. Lyon, Hyattsville, Md. Radiosignaling. No. 1,424,365; Aug. 1.
- Loftin, Frederick T., Indianapolis, Ind. Consecutive-order-impaling pin. No. 1,420,717; June 27.
- Lofton, Herbert M., Chattanooga, Tenn. Combination roller and rotary harrow. No. 1,408,615; Mar. 7.
- Lofton, Herbert M., Chattanooga, Tenn. Valve. No. 1,433,139; Oct. 24.
- Lofts, George H., Tasmania, Hobart, Australia. Electric irons fitted with a current indicator. No. 1,407,430; Feb. 21.
- Lofts, George H., Hobart, Tasmania, Australia. Alloy for use in electric heating appliances. No. 1,425,111; Aug. 8.
- Loftsgaarden, Albert T., Powell, Wyo. Haystacker. No. 1,425,399; Aug. 8.
- Loftus, Edward M., St. Paul, Minn. Pliers. No. 1,418,312; June 6.
- Logan, Colin M., assignor to Heller Brothers Company, Newark, N. J. Making rings for cutting rubber and other material. No. 1,407,470; Feb. 21.
- Logan, Frank A., Edgewood, Md. Valve. No. 1,435,899; Nov. 14.
- Logan, Ivan B. (See Tonkin, Arthur S., assignor.)
- Logan, Milton, et al. (See Logan, Sylvester M., assignor.)
- Logan, Milton, executor. (See Logan, Sylvester M.)
- Logan, Ralph N., Philadelphia, Pa. Machine for cleaning scale from annealed steel. No. 1,433,631; Oct. 31.
- Logan, Robert S., assignor to Dow Wire & Iron Works, Louisville, Ky. Cast-metal end for conveyor rollers. No. 1,418,152; May 30.
- Logan, Sylvester M., deceased, Warren, Ohio; M. Logan, executor, assignor of one-half to G. M. Neyman, Sheakleyville, Pa., and one-half to M. Logan, Warren, Ohio. Aeroplane. No. 1,413,670; Apr. 25.
- Logan, Thomas A., J. F. Brown, and C. E. Davis, Kansas City, Mo. Folding bed. No. 1,424,926; Aug. 8.
- Logan, Y. Senan, Emilio, Aytona, Spain, assignor to A. Godi di Godio, Genoa, Italy. Cement and concrete. No. 1,406,421; Feb. 14.
- Logansport Machine Company. (See Igberg, Frederick W., assignor.)
- Lohberger, Andrew, Toledo, Ohio. Plow. No. 1,419,743; June 13.
- Lohmann, Alfred P., Akron, Ohio. Mixing and kneading machine and process. No. 1,406,666; Feb. 14.
- Lohmann, Alfred P., Akron, Ohio. Mixing machine. No. 1,412,532; Apr. 11.
- Loiselle, Harvey J., Chippewa Falls, Wis. Child's coaster wagon. No. 1,408,616; Mar. 7.
- Lokometzki, Frank M., Milwaukee, Wis. Clothspin. No. 1,413,341; Apr. 18.
- Loman, Allie L. (See Loman, F. A. and A. L., and Dean.)
- Loman, Fray A. and A. L., and H. C. Dean, Eldorado, Kans. Rod and pipe grab for wells. No. 1,421,266; June 27.
- Loman, John, Bristol, Conn. Watch-chain fastener. No. 1,422,872; July 18.
- Loman, John, Bristol, Conn. Watch-chain fastener. No. 1,424,139; July 25.
- Lomax, Clarence S., assignor to American Coke & Chemical Company, Chicago, Ill. Process and apparatus for recovery of by-products from distillate gases. No. 1,408,105; Feb. 28.
- Lomax, Fanny. (See Lomax, Thornton G., assignor.)
- Lomax, Thornton G., Sherman, assignor to F. Lomax, Grayson County, Tex. Furniture and automobile body polish. No. 1,435,717; Nov. 14.
- Lombard, Levi W., Mattapan, Mass., assignor to Centrifugal Gun Corporation. Centrifugal gun. No. 1,420,660; June 27.
- Lombard, Nathaniel, Worcester, Mass. Fuel-feeding device for internal combustion engines. No. 1,407,204; Feb. 21.
- Lombard, Nathaniel, Worcester, Mass., assignor to Lombard, White Company, Worcester, Mass. Washing. No. 1,411,286; Apr. 4.
- Lombard, White Company. (See Lombard, Nathaniel, assignor.)
- Lombardi, Vincent, Brooklyn, N. Y. Knitted fabric. No. 1,426,576; Aug. 22.
- Lombardo, Frank, Brooklyn, N. Y., assignor to Percy Kent Company. Bag-printing mechanism. No. 1,427,905; Sept. 5.
- Lombom, Axel H., and J. R. Perry, assignors to Allith-Prouty Company, Danville, Ill. Ball-race-assembling machine. No. 1,437,431; Dec. 5.
- Lome, Philip, Chicago, Ill. Pneumatic-tire protector. No. 1,417,755; May 30.
- Lo Monaco, Domenico, Rome, Italy. Treatment of undecomposed fertilizing substances. No. 1,402,638; Jan. 3.
- Lo Monaco, Vincenzo. (See Zardimoni, Faust, assignor.)
- London, Emanuel, New York, N. Y. Mouth wash. No. 1,416,666; May 16.
- London General Omnibus Company, Limited, The. (See Howard, Benjamin, assignor.)
- Loneragan, Philip J., Jr. (See Keeney, R. M., and Loneragen.)
- Long, Albert A., Ballston, Va., and H. H. Turner, Hempstead, N. Y. Flow meter. No. 1,416,220; May 16.
- Long, Albert R., Ballston, Va. Rotary internal-combustion engine. No. 1,408,753; Mar. 7.
- Long, Benjamin J., Lakewood, Ohio. Method of and means for producing stucco columns. No. 1,438,186; Dec. 12.
- Long, Charlie, Lincoln, Nebr. Drinking fountain for live stock. No. 1,438,770; Dec. 12.
- Long, Daniel D., et al. (See Gerling, Frederick A., assignor.)
- Long, Daniel D., Boise, Idaho. Feeding attachment. No. 1,420,200; June 20.

Alphabetical list of patentees—Continued.

- Long, Edward, Burke, Idaho. Lock. No. 1,411,111; Mar. 28.
- Long, Edward, Burke, Idaho. Lock. No. 1,420,853; June 27.
- Long, Ernest H., Lincoln, Nebr. Notebook cover. No. 1,426,657; Aug. 22.
- Long, Eugene M., New York, N. Y. Golf training, exercising, and practicing apparatus. No. 1,427,536; Aug. 29.
- Long, Eugene M., New York, N. Y. Artificial hole for indoor golf putting. No. 1,427,537; Aug. 29.
- Long, Eugene M., New York, N. Y. Golf-practicing apparatus. No. 1,427,538; Aug. 29.
- Long, Frederick, Bellaire, Ohio, assignor to Whitaker-Glessner Company, Wheeling, W. Va. Can or pail. No. 1,434,831; Nov. 7.
- Long Furniture Company, The. (See Weeks, John B., assignor.)
- Long, George A., Hartford, Conn. Lock. No. 1,439,012; Dec. 19.
- Long, George F., New York, N. Y., assignor to The G. Piel Company, Inc. Pedal. No. 1,418,313; June 6.
- Long, George R. (See Cordley, H. G., and Long.)
- Long, George R., Waterbury, Conn., assignor to Cordley & Hayes, New York, N. Y. Push-button faucet. No. 1,403,509; Jan. 17.
- Long, George R., Waterbury, Conn., and H. G. Cordley, Glen Ridge, N. J., assignors to Cordley & Hayes, New York, N. Y. Self-closing faucet. No. 1,434,832; Nov. 7.
- Long, Harvey J., Plattsmouth, Nebr. Scale attachment for ice boxes. No. 1,409,872; Mar. 14.
- Long, J. Edgar. (See Davis, Joseph R., assignor.)
- Long, Jacob M., Mount Airy, N. C., A. U. Bryant, and C. A. Bryant, Cumberland, Va. Locking device for automobile tire chains. No. 1,409,014; Mar. 7.
- Long, James, Coventry, England. Built-up cutting tool. No. 1,408,706; Mar. 7.
- Long, John McAl., Manchester, England. Means for making ice cream. No. 1,417,847; May 30.
- Long, Laurence W. (See Bolenbaugh, Burton R., C., and R. S., and Long.)
- Long, Lewis R. (See White, Fred G., assignor.)
- Long, Ralph A., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Electrode. No. 1,440,091; Dec. 26.
- Long, Ramon, New York, N. Y. Chain pump. No. 1,425,112; Aug. 8.
- Long, Stevens P., Birmingham, Ala. Resilient tire. No. 1,422,996; July 18.
- Long, Uly C., South Whitley, Ind. Yoke. No. 1,403,427; Jan. 10.
- Long, Willard O., Detroit, Mich. Harrow attachment for tractors. No. 1,412,124; Apr. 11.
- Long, William H., Berkeley, Calif. Transmission mechanism. No. 1,427,961; Sept. 5.
- Long, William T., Puyallup, Wash., assignor to Usona Manufacturing Company, Wrench. No. 1,408,524; Mar. 7.
- Longacre, Frank H., Macon, Mo. Heating apparatus. No. 1,436,887; Nov. 28.
- Longenbaugh, Anthony B., Crowley, La. Operating mechanism for window shutters, blinds, and the like. No. 1,406,198; Feb. 14.
- Longenecker, Levi S., Washington, D. C., dedicated, by mesne assignments, to the people of the United States. Separating rotor. No. 1,427,001; Aug. 22.
- Longley, Willie C., Penn Laird, Va. Carcass conveyer. No. 1,408,372; Feb. 28.
- Longoni, Gualtiero. (See Corbella, G., and Longoni.)
- Longoria, Antonio, Cleveland, Ohio. Electric heating pad. No. 1,416,481; May 16.
- Longoria, Antonio, Cleveland, Ohio. Controlling device for electric heaters. No. 1,416,482; May 16.
- Longshaw, Frank, and C. S. Allan, Dunedin, New Zealand. Ball cock. No. 1,404,308; Jan. 24.
- Longworth, Howard B. (See Moore, Clyde, assignor.)
- Longyear, J. M., Jr. (See Genett, Louis J., assignor.)
- Longyear, John M., Jr. (See Genett, Louis J., assignor.)
- Lonsdale, Henry C., Ranger, Tex. Collar burster. No. 1,403,612; Jan. 17.
- Lonzo, Joseph A., Fitchburg, Mass. Machine for cleaning roving bobbins. No. 1,426,303; Aug. 15.
- Look, Fannie B., et al., trustees. (See Melcher, George S., assignor.)
- Loomer, Henry M., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutter. No. 1,412,084; Apr. 11.
- Loomis, Alfred L., Tuxedo Park, N. Y. Chronograph. No. 1,409,304; Mar. 14.
- Loomis, Alfred L., Tuxedo Park, N. Y. Gun mount. No. 1,435,073; Nov. 7.
- Loomis, Chauncey C., New York, assignor to Somet-Solvay Company, Solvay, N. Y. Producing salicyl aldehyde. No. 1,427,400; Aug. 29.
- Loomis, Chauncey C., New York, assignor to Somet-Solvay Company, Solvay, N. Y. Preparing coumarin. No. 1,437,344; Nov. 28.
- Loomis, Edwin C., et al. (See Zimmerman, Ralph W., assignor.)
- Loomis, Evans G., Newark, N. J. Ball-winding machine. No. 1,423,807; July 25.
- Loomis, Evans G., Newark, assignor to The Okonite Company, Passaic, N. J. Loom. No. 1,423,619; July 25.
- Loomis Machine Company, The. (See Lott, Daniel L., assignor.)
- Loomis, Merton W. (See Newman, V. F., and Loomis.)
- Loomis, Robert J., St. Paul, Minn. Rim-expanding tool. No. 1,426,577; Aug. 22.
- Loomis, Rockwell A., Retalhuleu, Guatemala. Carriage shifts for typewriters. No. 1,413,342; Apr. 18.
- Loomis, Rockwell A., Guatemala, Guatemala. Carriage-shifting mechanism for typewriters. No. 1,423,443; July 18.
- Looney, Walter C., Danville, Ky. Device for automatically elevating the assemblies of typographical machines. No. 1,434,391; Nov. 7.
- Loop, C. H., Steel Manufacturing Company. (See Loop, Charles H., assignor.)
- Loop, Charles H., Pawbuska, Okla., assignor to C. H. Loop Steel Manufacturing Company. Tank. No. 1,416,849; May 23.
- Loop, Leonard, Tulsa, Okla. Safety hook. No. 1,416,961; May 23.
- Loop, Rutherford H. (See Beaulieu, Peter F., assignor.)
- Loose, Henry W., Brooklyn, N. Y. Attachment for pipe cutters. No. 1,414,885; May 2.
- Loose, Kenneth D. (See Lawrence, E. E., and Loose.)
- Loose-Wiles Biscuit Company. (See Lawrence, E. E., and Loose, assignors.)
- Loose-Wiles Biscuit Company. (See Lawrence, Edward E., assignor.)
- Lopardo, Vincent, Springfield, Mass. Tire. No. 1,435,718; Nov. 14.
- Lopdell, Charles I., Surbiton, England. Band clip. No. 1,412,187; Apr. 11.
- Lopdell, Charles I., Surbiton, England. Band clip. No. 1,412,188; Apr. 11.
- Lopdell, Charles I., Surbiton, England. Band clip. No. No. 1,412,189; Apr. 11.
- Lopez, Anthony C. (See Sherwood, Charles M., assignor.)
- Lopez, Joaquin, Ansonia, Conn. Draft coupling. No. 1,408,955; Mar. 7.
- López, Margil, Alice, Tex. Portable trench. No. 1,417,613; May 30.
- Lopez, Raymond, assignor of one-half to A. Butts, San Diego, Calif. Candy-pulling machine. No. 1,414,743; May 2.
- Lorber, Charles, Louisville, Ky. Bread server. No. 1,418,153; May 30.
- Lord, Chester B., Battle Creek, Mich. Indicating apparatus. No. 1,417,928; May 30.
- Lord, Emory H., Washington, D. C. Measuring device. No. 1,422,112; July 11.
- Lord, Frederick W., New York, N. Y. Rain shield. No. 1,437,432; Dec. 5.
- Lord, Frederick W., assignor to Lord Manufacturing Company, New York, N. Y. Corner cleat. No. 1,402,304; Jan. 3.
- Lord, Hugh C., Erie, Pa. Closure for openings in receptacles subjected to pressure. No. 1,432,475; Oct. 17.
- Lord, Hugh C., Erie, Pa. Board. No. 1,433,896; Oct. 31.
- Lord Manufacturing Company. (See Lord, Frederick W., assignor.)
- Loree, James T. (See McGrew, John A., assignor.)
- Lorentz, Benjamin E., Fort Wayne, Ind., assignor, by mesne assignments, to R. T. Vanderbilt Company, New York, N. Y. Accelerator in vulcanizing rubber compounds. No. 1,413,172; Apr. 18.
- Lorenz, Charles O., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Electrical indicator. No. 1,432,346; Oct. 17.
- Lorenz, Edward H., and K. E. Peiler, Hartford, Conn., assignors to Hartford-Fairmont Company, Canajoharie, N. Y. Glassware-ejecting mechanism. No. 1,406,045; Feb. 7.
- Lorenz, Gustave C., assignor to A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Connection for liquid-fuel burners. No. 1,416,221; May 16.
- Lorenz, Oswald, New York, N. Y. Phonograph-record cabinet. No. 1,417,188; May 23.
- Lorenz, Rudolf, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Self-charging car. No. 1,427,539; Aug. 29.
- Lorenz, William A., assignor to The Otaka Fabric Company, Hartford, Conn. Barrel lining. No. 1,434,783; Nov. 7.
- Lorenzen, Edward, Marshalltown, Iowa. Smokehouse. No. 1,413,671; Apr. 25.
- Lorenzen, Henry, Crete, Ill. Jack. No. 1,406,881; Feb. 14.
- Lorig, Edwin T., and H. G. McIlvried, assignors to American Sheet and Tin Plate Company, Pittsburgh, Pa. Cold-roll feeding mechanism. No. 1,427,002; Aug. 22.
- Lorillard, P. Company. (See Ritchie, O. N., and Boykin, assignors.)
- Lormor, Henry W., assignor to Willard Storage Battery Co., Cleveland, Ohio. Portable electric-storage-battery cover remover. No. 1,411,444; Apr. 4.
- Losch, Cyrenius, Schuylkill Haven, Pa. Dump hoist. No. 1,414,426; May 2.
- Losch, Cyrenius, Schuylkill Haven, Pa. Piston. No. 1,420,934; June 27.
- Loski, Conrad, Miller Run, Pa. Aeroplane. No. 1,418,943; June 6.
- Lossing Manufacturing Company. (See Lossing, Richard, assignor.)

- Lossing, Richard, South Pasadena, assignor to Lossing Manufacturing Company, Los Angeles, Calif. Gasohol meter. No. 1,414,964; May 2.
- Lossing, Richard, South Pasadena, Calif. Liquid register. No. 1,433,512; Oct. 24.
- Loth, Gustave M., Chicago, Ill. Violin bow. No. 1,421,510; July 4.
- Lothrop, Marcus T. (See Hauser, A., and Lothrop.)
- Lothrop, Marcus T., assignor to The Timken Roller Bearing Company, Canton, Ohio. Manufacturing metal rings. No. 1,402,508; Jan. 3.
- Lott, Charles I., Pearson, Ga. Roller bearing. No. 1,426,578; Aug. 22.
- Lott, Clyde R., Washington, D. C., assignor to The Owens Bottle Company, Toledo, Ohio. Temperature-controlling and lubricating means for mold plungers. No. 1,439,372; Dec. 19.
- Lott, Daniel L., assignor to The Loomis Machine Company, Tiffin, Ohio. Friction clutch. No. 1,440,226; Dec. 26.
- Lott, John B., Anderson, Ind. Means for mounting rails on concrete foundations. No. 1,435,074; Nov. 7.
- Lott, William E., Newark, N. J. Bolt lock for demountable rims. No. 1,415,938; May 16.
- Lotz, Henry J., North Yakima, Wash. Door structure. No. 1,438,047; Dec. 5.
- Lotz, Rudolph W., Chicago, Ill., assignor to A. M. Kraker, Minneapolis, Minn. Fountain pen. No. 1,407,552; Feb. 21.
- Lotz, Rudolph W. (See Callery, G. F., and Lotz.)
- Lotz, Walter P., New Brunswick, N. J., assignor to International Motor Company, New York, N. Y. Boring machine. No. 1,422,456; July 11.
- Lotz, William A., Newark, N. J., assignor to The R. Neumann Hardware Co. Bag handle and handle fastener therefor. No. 1,427,608; Aug. 29.
- Louat, Rutledge, Sydney, New South Wales, Australia. Manually-controlled variable-speed transmission gearing. No. 1,438,444; Dec. 12.
- Loubière, German E., Buenos Aires, Argentina. Electric heater for water and other liquids. No. 1,438,445; Dec. 12.
- Loucks, James F., assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio. Roofing and similar construction. No. 1,403,510; Jan. 17.
- Loucks, Walter E., South Pasadena, Calif. Decking and holding device for transporting vehicles. No. 1,431,531; Oct. 10.
- Loudon, Dorr F., New York, N. Y. Saucer. No. 1,428,487; Sept. 5.
- Loudon, Dorr F., New York, N. Y. Metallic washtub cover. No. 1,440,306; Dec. 26.
- Louden Machinery Company, The. (See Harris, Frank C., assignor.)
- Louden Machinery Company, The. (See Neller, Albert H., assignor.)
- Louden Machinery Company, The. (See Peterke, Edward C., assignor.)
- Louder, Earl A., New York, assignor to Boyce & Veeder, Long Island City, N. Y. Fire-extinguishing composition. No. 1,430,745; Oct. 3.
- Loudon, Clarence W., Huntington Park, Calif. Protective armor for pneumatic tires. No. 1,418,661; June 6.
- Loudon, Hopkins M. (See Burgess, Yorke, assignor.)
- Loudon, Warren P., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switching mechanism. No. 1,437,062; Nov. 28.
- Loudy, Flavius E., Mobile, Ala. Aerofoil. No. 1,419,277; June 13.
- Lough, Hector V. (See Hopkinson, E., and Lough.)
- Lough, Hector V., Hartford, Conn., assignor to The Hartford Rubber Works Company. Power-transmitting device. No. 1,409,222; Mar. 14.
- Lough, Hector V., Hartford, Conn., assignor to The Hartford Rubber Works Company. Tire-shaping machine. No. 1,418,662; June 6.
- Lough, Hector V., Hartford, Conn., assignor to The Hartford Rubber Works Company. Sealing-ring-applying machine. No. 1,431,405; Oct. 10.
- Loughhead, Allen H., et al. (See Loughhead, Malcolm, assignor.)
- Loughhead, Malcolm, assignor of one-fourth to A. H. Loughhead, one-fourth to J. K. Northrop, and one-fourth to A. Stadman, Santa Barbara, Calif. Manufacturing curved forms of plywood or fibrous compositions. No. 1,425,113; Aug. 8.
- Loughhead, Malcolm, Detroit, Mich., assignor to Four Wheel Hydraulic Brake Company, Los Angeles, Calif. Braking apparatus. No. 1,430,746; Oct. 3.
- Loughmiller, Alex M., Crowell, Tex. Penholder. No. 1,408,956; Mar. 7.
- Loughran, Thomas F., Winona, Minn. Crate. No. 1,412,694; Apr. 11.
- Loughridge, Matthew H. (See Dyer, Harry W., assignor.)
- Louis, Elek, deceased; F. Louis, administratrix, New York, N. Y. Combination organ-stop action. No. 1,416,367; May 16.
- Louis, Fanny, administratrix. (See Louis, Elek.)
- Louison, Alfred B., Rockford, Ill. Crutch. No. 1,407,553; Feb. 21.
- Louisville Auto Painting and Trimming Company. (See Reed, William M., assignor.)
- Louisville Cement Company. (See Speed, William S., assignor.)
- Louisville Circuit Breaker Company. (See Fullenlove, McClellan C., assignor.)
- Louisville Frog & Switch Company. (See Shaw, George S., assignor.)
- Loukes, Ernest V., Brighton, Melbourne, Victoria, Australia. Bedstead and like joint. No. 1,411,046; Mar. 28.
- Lound, Peter S. (See Anderson, Peter F., assignor.)
- Lounsbery, Henry R., Jr., New York, N. Y. Dial for time-pieces. No. 1,403,428; Jan. 10.
- Lounsberry & Bissell Company, The. (See Gregory, H. W., and Betts, assignors.)
- Loury, William J., Monessen, Pa. Band brake. No. 1,402,365; Jan. 3.
- Loustalot, Edward V., Franklin, La. Bed for use on automobiles. No. 1,421,268; June 27.
- Loutzenhiser, Frederick E. (See Lantz, J. L., Ansbaugh, and Loutzenhiser.)
- Lovari, John. (See Brignole, J. J., and Lovari.)
- Love, Dumont, St. Augustine, Fla. Means for centering and aligning locomotive draft appliances. No. 1,438,771; Dec. 12.
- Love, Edgar P., St. Louis, Mo. Seat cover. No. 1,404,451; Jan. 24.
- Love, Ward H., St. Clairsville, Ohio. Antiskid device for vehicle wheels. No. 1,405,051; Jan. 31.
- Loveberg, Godfrey, Los Angeles, Calif. Picture illuminator. No. 1,409,114; Mar. 7.
- Lovejok, Dimmitt K., Ereneau, N. J. Signaling apparatus. No. 1,413,748; Apr. 25.
- Lovejok, Frederick B., and L. C. Rittmeyer, Cincinnati, Ohio. Roller bearing. No. 1,413,173; Apr. 18.
- Lovejok, Ralph M., Meredith, N. H. Internal-combustion engine. No. 1,415,374; May 9.
- Lovejok, Ralph M., Meredith, N. H. Internal-combustion engine. No. 1,431,473; Oct. 10.
- Lovejok, Ralph M., Meredith, N. H., assignor to Lewis-Shepard Company, Boston, Mass. Single-lift elevating truck. No. 1,434,016; Oct. 31.
- Lovejok Tool Works. (See Dixon, Thomas J., assignor.)
- Lovejok Tool Works. (See Hasty, John B., assignor.)
- Lovelace, Cleo, and A. D. Fousha, Aberdeen, Wash. Car step. No. 1,403,125; Jan. 10.
- Lovelace, Paul U., Clinton, Okla. Grinding tool. No. 1,415,664; May 9.
- Lovelace, Roseman E. H., Enfield, England. Nut. No. 1,405,238; Jan. 31.
- Loveland, Ernest M., Hackensack, N. J. Process and apparatus for manufacturing soap. No. 1,416,488; May 16.
- Loveland, Theodore O., Iowa City, Iowa. Sound recording and reproducing machine. No. 1,406,046; Feb. 7.
- Loveless, Albert, Aberdeen, Wash. Valve-grinding tool. No. 1,415,592; May 9.
- Loveless, Albert, Aberdeen, Wash. Valve-spring-lifting device. No. 1,436,663; Nov. 28.
- Lovell, George J., New York, N. Y. Package. No. 1,413,412; Apr. 18.
- Lovell, William V., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupter. No. 1,406,267; Feb. 14.
- Loveman, William R., assignor to The Bridgeport Metal Goods Manufacturing Company, Bridgeport, Conn. Electric battery. No. 1,408,525; Mar. 7.
- Lover, William E., Findlay, Ohio. Bag and envelope. No. 1,424,836; Aug. 8.
- Lover, William E., Findlay, Ohio. Combined letter sheet, check, envelope, and carbon copy. No. 1,424,837; Aug. 8.
- Lo Verde, John, and A. Tubiolo, assignors of one-seventh to C. J. Mondo, Rochester, N. Y. Child's vehicle. No. 1,424,497; Aug. 1.
- Loveridge, F. R., et al. (See Gardner, Albert R., assignor.)
- Lovett, George W., Stockbridge, Mass. Hand sled. No. 1,431,826; Oct. 10.
- Lovsey, Charles H. (See Craig, David, assignor.)
- Lovstrom, Richard, New York, N. Y. Light-projection display. No. 1,406,663; Feb. 14.
- Low, Arthur B., Denver, Colo. Pressure gauge. No. 1,403,429; Jan. 10.
- Low, Arthur B., Denver, Colo. Pressure gauge. No. 1,422,278; July 11.
- Low, Basil C., Auckland, New Zealand. Stirrer or mixer. No. 1,410,199; Mar. 21.
- Löw-Beer, Oscar, Frankfurt-on-Main, Germany, assignor, by mesne assignments, to The Chemical Foundation Inc. Tanning substance for tanning animal hides and preparing the same. No. 1,421,701; July 4.
- Low Everett M., Brooklyn, N. Y. Reproducer for talking machines. No. 1,424,838; Aug. 8.
- Low, Frank S., assignor to Niagara Alkali Company, Niagara Falls, N. Y. Chloridizing process and apparatus. No. 1,430,454; Sept. 26.
- Lowe, Ernest A., Plainfield, N. J., assignor, by mesne assignments, to Automatic Sprinkler Company of America, New York, N. Y. Automatic releasing mechanism for fire doors. No. 1,404,534; Jan. 24.
- Lowe, James, Auckland, New Zealand. Gas-generating plant. No. 1,416,042; May 16.
- Lowe, James F., Milwaukee, Wis. Shoe-lace holder. No. 1,413,859; Apr. 25.
- Lowe, James K., Denison, Tex. Bank-deposit receiver. No. 1,425,400; Aug. 8.

- Lowe, John D., assignor to La Fayette Motors Company, Indianapolis, Ind. Antirattle device for steering devices. No. 1,417,674; May 30.
- Lowe, Robert G., Clawson, Mich. Power agitator. No. 1,413,672; Apr. 25.
- Lowe, Ross H., Hanover, Pa., assignor, by direct and mesne assignments, to American Flyer Manufacturing Company, Chicago, Ill. Car coupling. No. 1,432,728; Oct. 17.
- Lowe, William C., Atlanta, Ga. Device for teaching penmanship. No. 1,416,564; May 16.
- Lowe, William J., and A. Sneddon, Chicago, Ill. Milk-bottle closure and the like. No. 1,432,476; Oct. 17.
- Lowell, Charles E., New York, N. Y., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Steam trap. No. 1,420,718; June 27.
- Lowell, Erwin D., deceased, Cleveland Heights, Ohio; J. D. Lowell, administratrix. Forging. No. 1,433,213; Oct. 24.
- Lowell, June D., administratrix. (See Lowell, Erwin D.)
- Lowell, Percival D., assignor to Radio Instrument Company, Inc., Washington, D. C. Amplifying system. No. 1,439,562; Dec. 19.
- Lowell, Percival D., assignor to Radio Instrument Company, Inc., Washington, D. C. Radiofrequency transformer. No. 1,439,563; Dec. 19.
- Lowenstein, Fritz, New York, N. Y. Pressing apparatus. No. 1,411,638; Apr. 4.
- Lowenstein, Fritz, New York, N. Y. Teapot and the like. No. 1,413,282; Apr. 18.
- Lowenstein, Fritz, Brooklyn, N. Y. Combined key and switch. No. 1,419,460; June 13.
- Lowenstein, Gothard, Brooklyn, N. Y. Detachable lens mounting. No. 1,435,536; Nov. 14.
- Löwenstein, Harry F. (See Whitaker, Norman T., assignor.)
- Lowenstein, Louis, assignor to The H. R. Lewis Tool Co., Detroit, Mich. Adjustable thickness gauge. No. 1,433,559; Oct. 31.
- Lowenthal, Martin, Edgewood, Md. Automatic reverse for player pianos. No. 1,437,322; Nov. 28.
- Lower, Alfred P., Bradford, Ohio. Fishing-line float. No. 1,418,944; June 6.
- Lower, Melvin S., assignor to The Faultless Rubber Company, Ashland, Ohio. Tubing machine. No. 1,428,381; Sept. 5.
- Lower, Nathan M., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Locomotive tender. No. 1,404,983; Jan. 31.
- Lower, Nathan M., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Gear-shifting mechanism. No. 1,404,984; Jan. 31.
- Lower, Nathan M., assignor to Locomotive Stoker Company, Pittsburgh, Pa. Fuel conveying and crushing mechanism for locomotive stokers. No. 1,404,985; Jan. 31.
- Lower, Nathan M., assignor to Locomotive Stoker Company, Pittsburgh, Pa. Locomotive stoker. No. 1,410,687; Mar. 28.
- Lower, Nathan M., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Locomotive stoker. No. 1,423,533; July 25.
- Lower, Raymond S., Geneseo, Ill. Egg beater. No. 1,425,026; Aug. 8.
- Lowry, William. (See Weir, R. W., and Lowery.)
- Lowry, Roy E., Huntington, Ind. Collapsible fruit box. No. 1,430,455; Sept. 26.
- Lown, Walter H., assignor to Kerlow Steel Flooring Co., Jersey City, N. J. Grating or ventilator. No. 1,416,484; May 16.
- Lowndes, Richard H., assignor to Motor Parts Corporation, Atlanta, Ga. Valve. No. 1,435,537; Nov. 14.
- Lowney, Walter M., Company, The. (See Bertini, Dante, assignor.)
- Lowrey, Edward R., Dunbar, Nebr. Adjustable harrow seat. No. 1,411,856; Apr. 4.
- Lowrey, John R., San Pedro, Calif. Hose clamp. No. 1,426,086; Aug. 15.
- Lowry, Bertha M., et al. (See Lowry, George A., assignor.)
- Lowry, Cassandra, Chicago, Ill. Tire armor. No. 1,412,695; Apr. 11.
- Lowry, Ernest W. (See Lloyd, E., and Lowry.)
- Lowry, George A., Chicago, Ill., assignor of one-half to B. M. Lowry, Chicago, Ill., and one-half to A. B. Ridington, St. Louis, Mo. Combined husking and shredding machine. No. 1,404,779; Jan. 31.
- Lowry, George A., Chicago, Ill., assignor of one-half to B. M. Lowry, Milwaukee, Wis., and one-half to A. B. Ridington, St. Louis, Mo. Corn husking and shredding machine. No. 1,408,304; Feb. 28.
- Lowthorp, William M., Summertown, Tenn. Window lock. No. 1,424,107; July 25.
- Lowy, Arthur. (See Colven, J. M., and Lowy.)
- Lowy, Arthur. (See Ludlum, A. C., and Lowy.)
- Lowy, Morris, New York, N. Y. Mechanism for forming nipples on tubes. No. 1,432,073; Oct. 17.
- Lowy, Morris, New York, N. Y. Corner fastening for bedsteads. No. 1,433,214; Oct. 24.
- Lowy, Morris, New York, N. Y. Corner fastening for bedsteads. No. 1,438,187; Dec. 12.
- Lox Seal Corporation, The. (See Behrman, Marcus B., assignor.)
- Loy, J. Wallace, assignor of one-half to A. Pelton, Long Beach, Calif. Window-sash lock. No. 1,434,495; Nov. 7.
- Loy, James W., Burnett, Calif. Well-casing-capping device. No. 1,428,791; Sept. 12.
- Loy, William C., assignor of one-half to F. E. Bryant, Rochester, Ind. Tire valve and gauge. No. 1,408,012; Feb. 28.
- Loynes, Owen H. (See Demarest, C. S., and Loynes.)
- Loynes, Owen H. (See Toomey, J. F., and Loynes.)
- Lozon, Ramon J., assignor to King Lock Company, Chicago, Ill. Lock. No. 1,419,393; June 13.
- Luard, Edward S., London, England. Concrete construction. No. 1,425,114; Aug. 8.
- Lubben, Henry S., Le Mars, Iowa. Watering trough for bees. No. 1,406,568; Feb. 14.
- Lübeck, Hilding, Hørsrud, Sweden. Electric motor car. No. 1,414,292; Apr. 25.
- Lübeck, Hilding, Hørsrud, Sweden. Spring support for vehicles. No. 1,428,699; Sept. 12.
- Lubin, Harry. (See Lefkowitz, C., Ross, and Lubin.)
- Lubin, Lewi, Brooklyn, N. Y. Watchcase. No. 1,436,593; Nov. 21.
- Lubke, Hugo O. R. (See Klostermann, A. P. M., and Lubke.)
- Lubliner, Benjamin. (See Berkowitz, Samuel, assignor.)
- Lubowsky, Simon J., Jersey City, assignor to Metal- & Thermit Corporation, Chrome, N. J. Recovery of tungsten trioxide from tungsten ores and the like. No. 1,410,584; Mar. 28.
- Lucabaugh, John W., near Hanover, Pa. Folding crate. No. 1,423,863; July 25.
- Lucas, Grover C., and M. M. Pratt, Batavia, Iowa. Engine-repair stand. No. 1,431,532; Oct. 10.
- Lucas, Harry and O., and H. W. F. Ireland, Birmingham, England. Automatic electric switch. No. 1,420,935; June 27.
- Lucas, John, assignor of one-half to J. J. Lucas, Chicago, Ill. Ear muff. No. 1,404,452; Jan. 24.
- Lucas, John, & Co. (See Allen, Austin O., assignor.)
- Lucas, John W., Ottawa, Ill. Ironing board. No. 1,431,673; Oct. 10.
- Lucas, Joseph J. (See Lucas, John, assignor.)
- Lucas, Louis, Jamestown, N. Y. Machine for making incense sticks. No. 1,438,446; Dec. 12.
- Lucas, Oliver. (See Lucas, Harry and O., and Ireland.)
- Lucas, Owen D. (See Martin, H. P., and Lucas.)
- Lucas, Owen D., Bayswater, London, assignor to V. M. L. Experimental Limited, Westminster, London, England. Shell fuse. No. 1,415,503; May 9.
- Lucas, Owen D., Linden Gardens, London, assignor to V. M. L. Experimental Limited, Westminster, London, England. Shell. No. 1,434,784; Nov. 7.
- Lucas, Owen D., Linden Gardens, London, assignor to V. M. L. Experimental Limited, Westminster, London, England. Shell. No. 1,439,674; Dec. 19.
- Lucas, Paul, Berlin-Friedenau, Germany. Wickless burner for use in connection with petroleum or other liquid hydrocarbons. No. 1,433,632; Oct. 31.
- Lucas, Richard D., Wallaceburg, Ontario, Canada. Filter press. No. 1,415,461; May 9.
- Lucas, Samuel M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electromagnet. No. 1,421,269; June 27.
- Lucas, Walker B., Harlowton, Mont. Tire-mounting rim. No. 1,429,515; Sept. 19.
- Lucas, Walter H., jr., West Park, assignor to S. A. Gibbons, Cleveland, Ohio. Antiskid chain. No. 1,427,003; Aug. 22.
- Lucas, William J., San Jose, Calif. Violin body. No. 1,438,386; Dec. 12.
- Luce Cane Harvester Corporation. (See Wilkes, F. C. D., and Flynn, assignors.)
- Luce Cane Harvester Corporation. (See Wilkes, Frederick C. D., assignor.)
- Luce, Charles D., Anaheim, Calif. Level. No. 1,433,513; Oct. 24.
- Luce, George D., Watertown, Wis. Trash cutter. No. 1,419,158; June 13.
- Luce, George D., Watertown, Wis. Sugar-cane-windrowing machine. No. 1,434,785; Nov. 7.
- Luce, Grafton E., Chicago, Ill. Steam-pipe rack drier. No. 1,433,085; Oct. 24.
- Luce, Harold H. (See Mader, Joseph, assignor.)
- Luce, Thomas C., Stratford, Conn. Automobile shock absorber and stabilizer. No. 1,418,813; June 6.
- Lucey Manufacturing Corporation. (See Zilen, Victor W., assignor.)
- Lucey Manufacturing Corporation of Tennessee. (See Suman, John R., assignor.)
- Lucey, Patrick J., Chicago, Ill. Adjusting means for slicing-machine knives. No. 1,428,291; Sept. 5.
- Lucey, Patrick J., Chicago, Ill. Knife guard for slicing machines. No. 1,428,292; Sept. 5.
- Luchkanich, Stephen, Mayfield, Pa. Switch lock. No. 1,436,767; Nov. 28.
- Luchsinger, Henry J. F., Weybur, Saskatchewan, Canada. Grain feeder for thrashers. No. 1,410,334; Mar. 21.
- Lucier, Hector J., Stoughton, Mass. Composite heel for boots and shoes. No. 1,439,564; Dec. 19.
- Luckenbach Processes, Inc. (See Luckenbach, Royer, assignor.)
- Luckenbach, Royer, Brooklyn, N. Y., assignor to Luckenbach Processes, Inc., San Francisco, Calif. Concentrating ores. No. 1,417,261; May 23.
- Luckenbach, Royer, Brooklyn, N. Y., assignor to Luckenbach Processes, Inc., San Francisco, Calif. Concentration of ores. No. 1,417,262; May 23.

- Luckenbach, Royer, Brooklyn, N. Y., assignor to Luckenbach Processes, Inc., San Francisco, Calif. Concentration of ores. No. 1,417,263; May 23.
 Luckenbach, Royer, Brooklyn, N. Y., assignor to Luckenbach Processes, Inc., San Francisco, Calif. Flotation process. No. 1,425,327; Aug. 8.
 Luckett, Wade H., Clarendon, Va. Resonance device. No. 1,437,982; Dec. 5.
 Luckey, George P., Dayton, Ohio. Flexible transmitting device. No. 1,427,829; Sept. 5.
 Luckow, Nikolaj, New York, N. Y. Combination lock. No. 1,433,086; Oct. 24.
 Lucy, Calvin, H., Baltimore, Md., assignor to The Singer Manufacturing Company. Work holder for sewing machines. No. 1,431,591; Oct. 10.
 Lucy, Robert, Olga, N. Dak. Quack-grass digger. No. 1,417,537; May 30.
 Lucyshyn, Antoni, Toronto, Ontario, Canada. Railway station indicator. No. 1,414,700; May 2.
 Ludescher, Engelbert, Chicago, Ill. Electric flash light. No. 1,410,335; Mar. 21.
 Ludlow, Tipton H., Chandler, Ariz. Means for operating casement windows. No. 1,409,459; Mar. 14.
 Ludlow Typograph Company. (See Cromwell, George O., assignor.)
 Ludlow Typograph Company. (See Pottle, Harry G., assignor.)
 Ludlow, Walter S., Jr., Cincinnati, Ohio. Electric alarm system. No. 1,411,112; Mar. 28.
 Ludlum, Albert C., New York, N. Y., and A. Lowy, Newark, N. J., assignors to New York Engineering Company. Dredge. No. 1,403,260; Jan. 10.
 Ludlum Electric Furnace Corporation. (See Leander, Knut, assignor.)
 Ludlum, James G., Bridgeport, Conn. Display roll for flat metal tableware. No. 1,423,483; July 18.
 Ludwig & Ludwig, Inc. (See Danly, George I., assignor.)
 Ludwig, Andrew, Rochester, N. Y. Illuminated star. No. 1,410,336; Mar. 21.
 Ludwig, Joseph, Houston, Tex. Dashboard bracket. No. 1,410,688; Mar. 28.
 Ludwig, Leonard L., Delavan, Kans. Kitchen cabinet. No. 1,419,278; June 13.
 Ludwig, William C. (See Heatzman, Arthur H., assignor.)
 Ludwikowski, John F., Toledo, Ohio. Gun. No. 1,404,986; Jan. 31.
 Luebben, Melchoir L., Long Beach, Calif. Knife sharpener. No. 1,415,375; May 9.
 Lueck, Frank R., Milwaukee, Wis. Grinder attachment for drills. No. 1,426,579; Aug. 22.
 Lueck, Frank R., Milwaukee, Wis. Wrench. No. 1,430,574; Oct. 3.
 Lueck, Robert, Bloomer, Wis. Belt coupling. No. 1,409,873; Mar. 14.
 Luedke, Gustav P., Springfield, Ill. Thrashing machine. (Reissue). No. 15,384; June 13.
 Luedke, Julius C., Cedar Rapids, Iowa. Safety signal device for boilers. No. 1,424,313; Aug. 1.
 Luedke, Julius C., assignor of one-tenth to J. Dever, Sioux City, Iowa. Tobacco pipe. No. 1,420,117; June 20.
 Luehrman, George E. W. (See Webster, Henry A., assignor.)
 Lüers, Heinrich, Munich, Germany. Manufacturing a coloring matter for beer. No. 1,418,945; June 6.
 Luettert, Arnold C., and E. H. Meiklejohn, assignors of one-third to R. D. Brown, Seattle, Wash. Portable roadway. No. 1,422,280; July 11.
 Lueth, Paul F., assignor to Sumner Iron Works, Everett, Wash. Independent direct-acting skid lift. No. 1,436,623; Nov. 21.
 Luevano, Juan. (See Anduaga, S., jr., and Luevano.)
 Lufkin Rule Company, The. (See Buck, Fred, assignor.)
 Lufkin Rule Company, The. (See Schleicher, John A., assignor.)
 Luft, Jake, Kingsdown, Kans. Valve-spring tool. No. 1,411,113; Mar. 28.
 Luft, Max, Boras, Sweden. Treatment of artificial goods from viscose. No. 1,404,535; Jan. 24.
 Luft, Max, Boras, Sweden. Manufacture of artificial goods from viscose. No. 1,407,696; Feb. 28.
 Luft, Sigmund, Maywood, Ill. Food product. No. 1,420,661; June 27.
 Luft, Sigmund, Maywood, Ill. Food product and preparing same. No. 1,424,927; Aug. 8.
 Luftfahrzeugbau Schutte-Lanz. (See Kappes, Karl F., assignor.)
 Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung. (See Dornier, Claudius, assignor.)
 Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung. (See Dürr, Ludwig, assignor.)
 Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung. (See Jaray, Paul, assignor.)
 Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung. (See Stahl, Karl, assignor.)
 Luhnaw, Walter F., Oak Park, Ill. Sound amplifier. No. 1,420,719; June 27.
 Luick, William F., Milwaukee, Wis. Shipping-card holder. No. 1,425,874; Aug. 15.
 Luhnaw, Walter F., Oak Park, Ill. Phonograph. No. 1,436,510; Nov. 21.
 Luftwiler Pumping Engine Company. (See Minor, William A., assignor.)
 Lukens, Alan R., Wyoming, assignor to The Richardson Company, Lockland, Cincinnati, Ohio. Colored fibrous composition and manufacture thereof. No. 1,430,392; Sept. 26.
 Lukens, Rinaldo A., Collingswood, N. J., assignor to Continental Mills, Inc., Philadelphia, Pa. Pattern-controlled knock-off means for the stop motions of knitting machines. No. 1,403,332; Jan. 10.
 Lukes, John. (See Edwards, W. R., and Lukes.)
 Lukes, John. (See Kranz, H. W., and Lukes.)
 Lukonske, John F., Bridgeport, Conn. Salvage vessel. No. 1,413,413; Apr. 18.
 Lulay, Joseph A., Scio, Ore. Combination bevel finder and square. No. 1,433,140; Oct. 24.
 Lull, Frank E., assignor to The Railroad Supply Company, Chicago, Ill. Interlocking relay. No. 1,439,905; Dec. 26.
 Lum, Walter O., Hempstead, N. Y., assignor to The Gould Compensating Gear Co., San Francisco, Calif. Compensating gear. No. 1,434,063; Oct. 31.
 Luman, Ira C., assignor of one-half to L. W. Hobson, Yakima, Wash. Sharpener. No. 1,438,447; Dec. 12.
 Lombard, La Mont C., Hayward, Calif. Cannery sandal. No. 1,435,538; Nov. 14.
 Lumby, Charles L., Chicago, Ill. Cooking-vessel-supporting device. No. 1,406,399; Feb. 14.
 Lu-Min-Us-Cap Company. (See Roudanez, Georges, assignor.)
 Lummis, Charles W., assignor to Morgan Construction Company, Worcester, Mass. Feeding mechanism for gas producers. No. 1,425,115; Aug. 8.
 Lummis, Charles W., assignor to Morgan Construction Company, Worcester, Mass. Regulating mechanism for gas producers. No. 1,425,875; Aug. 15.
 Lummus, Walter E., Company, The. (See Lichtenthaler, Frank E., assignor.)
 Lumsden, Allen R., Mount Zion, Ill. Expansion piston pin. No. 1,435,406; Nov. 14.
 Lumsden, James D., deceased, by S. A. R. F. Lumsden, Almondbank, R. W. R. Mackenzie, Earlsall, J. G. Miller, Perth, R. O. Lumsden, Almondbank, A. P. Melville, Edinburgh, executors, and R. W. R. Mackenzie, Earlsall, E. H. Robinson, Perth, and M. Fort, Almondbank, Scotland. Scouring and bleaching of yarns and fabrics composed of vegetable fibers containing dyed-effect threads or fibers. No. 1,435,864; Nov. 14.
 Lumsden, Robert O., et al., executors. (See Lumsden, J. D., Mackenzie, Robinson, and Fort.)
 Lumsden, Susan A. R. F., et al., executors. (See Lumsden, J. D., Mackenzie, Robinson, and Fort.)
 Lumsden, Thomas, Gateshead, England. Vertical drilling and boring machine. No. 1,413,174; Apr. 18.
 Lund, Charles W., Willows, Calif. Front truck for street-sweeping machines. No. 1,418,154; May 30.
 Lund, Joel, San Francisco, Calif. Metallurgical apparatus. No. 1,415,183; May 9.
 Lund, Levi, Grand Forks, N. Dak., assignor of one-half to E. Peterson, East Grand Forks, Minn. Concrete mixer. No. 1,439,178; Dec. 19.
 Lund, Ole. (See Mason, M., and Lund.)
 Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stacking mechanism. No. 1,404,210; Jan. 24.
 Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-attaching machine. No. 1,406,990; Feb. 21.
 Lund, Thomas, Beverly, Mass., assignor to United-Xpelite Finishing Company, Portland, Me. Heel-burnishing machine. No. 1,412,085; Apr. 11.
 Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stamping machine. No. 1,421,511; July 4.
 Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Locking mechanism. No. 1,426,398; Aug. 22.
 Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Compressing machine. No. 1,426,399; Aug. 22.
 Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Insole-heel-seat-trimming machine. No. 1,431,967; Oct. 17.
 Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-lift container. No. 1,433,560; Oct. 31.
 Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Distributing apparatus. No. 1,439,013; Dec. 19.
 Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-building machine. No. 1,439,014; Dec. 19.
 Lundberg, Alfred J., San Francisco, Calif. Flushing tank. No. 1,436,350; Nov. 21.
 Lundberg, Axel E., Sundsvall, Sweden. Kitchen range. No. 1,424,660; Aug. 1.
 Lundberg, David E., Philadelphia, Pa. Wrench. No. 1,405,140; Jan. 31.
 Lundberg, Elov K. H., Saltsjobaden, Sweden. Self-closing and shock-preventing valve. No. 1,431,406; Oct. 10.
 Lundberg, Gustave E., Kewanee, Ill. Battery connector. No. 1,421,017; June 27.
 Lundeen, John, Portland, Ore. Bedclothes clamp. No. 1,416,655; May 16.
 Lundeen, Nels J., Tacoma, Wash. Concealed hinge. No. 1,420,326; June 20.

- Lundeen, Nels J., and H. F. Russell, Tacoma, Wash. Attachment for davenport. No. 1,426,580; Aug. 22.
- Lundeen, Nels J., Tacoma, Wash. Folding bracket. No. 1,437,063; Nov. 28.
- Lundeen, Nels J., Tacoma, Wash. Bracket for table leaves. No. 1,437,064; Nov. 28.
- Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,403,861; Jan. 17.
- Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,403,862; Jan. 17.
- Lundell, Alben E., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,410,766; Mar. 28.
- Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Printing-telegraph system. No. 1,438,961; Dec. 19.
- Lundell, Alben E., and E. H. Clark, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,438,841; Dec. 12.
- Lundell, Alvin O., Chicago, Ill., assignor to The Allbright-Nell Co. Eviscerator's sanitary movable platform. No. 1,413,673; Apr. 25.
- Lundell, Robert, New York, N. Y. Dynamo-electric machine. No. 1,401,996; Jan. 3.
- Lundell, Robert A., New York, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Piston and connecting rod construction. No. 1,423,343; July 18.
- Lundell, Robert A., New York, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Piston and connecting rod construction. No. 1,423,344; July 18.
- Lunden, John A., assignor of one-half to R. C. Danly, Chicago, Ill. Phonograph. No. 1,436,969; Nov. 28.
- Lunden, John A., assignor of one-half to R. C. Danly, Chicago, Ill. Sound box. No. 1,436,970; Nov. 28.
- Lundgren, Carl A., Chicago, Ill. Safety device for scaffolding. No. 1,412,624; Apr. 11.
- Lundgren, Edwin, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Mechanical stoker. No. 1,406,199; Feb. 14.
- Lundin, Andreas P., Flushing, N. Y., assignor to American Balsa Company Inc. Beam structure. No. 1,429,600; Sept. 19.
- Lundin, Erik O. G. (See Lindén, G., and Höjer, assignors.)
- Lundin, Mattias O., Los Angeles, Calif. Liquid-level indicator. No. 1,425,116; Aug. 8.
- Lundius, Eric R. (See Kuhn, G. W., and Lundius.)
- Lundquist, Anders G., and K. J. A. Jonson, assignors to Aktiebolaget Skandinaviska Orgel-Och Pianofabriken, Stockholm, Sweden. Reed-organ swell. No. 1,415,665; May 9.
- Lundquist, Frank A., Chicago, Ill., assignor, by mesne assignments, to H. S. Conrad trustee. Automatic telephone exchange. No. 1,439,427; Dec. 19.
- Lundquist, John E., Chicago, Ill. Extension device for tables and the like. No. 1,411,114; Mar. 28.
- Lundqvist, Axel G., Oakland, Calif. Trousers protector. No. 1,404,987; Jan. 31.
- Lundsgaard, Christen J. S., Vejen, and K. T. Herbst, Brand, Denmark. Explosive material. No. 1,423,233; July 18.
- Lundstrom, Alfred H., Rockford, Ill. Demountable tire rim. No. 1,406,664; Feb. 14.
- Lundstrom, Andrew J., Brooklyn, assignor to G. E. Carhart, New York, N. Y. Installment-payment accounting. No. 1,413,041; Apr. 18.
- Lundstrom, Axel M., Erie, Pa. Bedspring reinforcement. No. 1,438,249; Dec. 12.
- Lundy, Edwin K., jr., Chicago, Ill. Reinforcement for cellular packing structures. No. 1,439,179; Dec. 19.
- Lunger, Henry J., Rochester, N. Y. Letter sheet. No. 1,439,428; Dec. 19.
- Lunkenheimer Company, The. (See Hehemann, Frederick H., assignor.)
- Lunow, Martin F. (See Jesdale, Charles, assignor.)
- Lunz, George A., Buffalo, N. Y. Nonskidding attachment for vehicle wheels. No. 1,410,200; Mar. 21.
- Lunz, Joe M., Wright, Kans. Thrasher. No. 1,428,599; Sept. 12.
- Lupien, Henry B. (See Foster, N. I., and Lupien.)
- Luppino, Joseph, Brooklyn, N. Y. Convertible davenport bed. No. 1,408,013; Feb. 28.
- Luppino, Joseph, Brooklyn, N. Y. Folding chair bed. No. 1,408,014; Feb. 28.
- Luppino, Joseph, Brooklyn, N. Y. Folding cot. No. 1,408,015; Feb. 28.
- Lurcott, Winfred N., Weehawken, N. J. Machine for making wire straps. No. 1,427,962; Sept. 5.
- Lurcott, Winfred N., Weehawken, N. J., assignor to William A. Young Gasket Corporation, New York, N. Y. Machine for making grommets. No. 1,432,767; Oct. 24.
- Lurie, William A., New Orleans, La. Electrical indicating system. No. 1,416,485; May 16.
- Lurman, Wilhelm, Dr. Jur. (See Köhler, Lothar, assignor.)
- Lurtz, John, Chicago, Ill. Pedestal. No. 1,423,951; July 25.
- Lüscher, Emil. (See Danneel, H., and Lüscher.)
- Luse, Ruby, (now by marriage Ruby L. Claar,) Chicago, Ill. Thimble. No. 1,405,928; Feb. 7.
- Lush, Ernest J. (See Bolton, E. R., and Lush.)
- Lusk, Raymond F., assignor of one-half to C. A. Gettman, Columbus Grove, Ohio. Lathe center. No. 1,416,102; May 16.
- Lust, Herbert C. (See Kuehl, Ernest C., assignor.)
- Luster-Jordan Company. (See Hoy, J. F., and Whitesell, assignors.)
- Lustgarten, Bernard, Brooklyn, N. Y. Garment. No. 1,408,373; Feb. 28.
- Lustgarten, Charles, Chicago, Ill. Sanitary bottle top. No. 1,416,565; May 16.
- Lustig, David, Paris, France. Motive-power appliance for sewing machines and the like. No. 1,418,007; May 30.
- Lustig, Rudolf, Milwaukee, Wis. Arch support. No. 1,426,750; Aug. 22.
- Lustrik, Peter, Cleveland, Ohio. Extensible micrometer caliper. No. 1,425,027; Aug. 8.
- Lustron Company, The. (See Mork, H. S., and Coffin, Jr., assignors.)
- Luszczyszyn, Frank, Ludington, Mich. Freight-car body. No. 1,408,214; Feb. 28.
- Lutes, Simpson, Primrose, Ky. Reversible hillside turning plow. No. 1,406,569; Feb. 14.
- Luther Grinder Mfg. Co. (See Bethke, Bernhard, assignor.)
- Luther, John A., Schenectady, N. Y. Die structure. No. 1,428,174; Sept. 5.
- Luther, John A., Schenectady, N. Y. Punch press. No. 1,428,175; Sept. 5.
- Luther, John A., Schenectady, N. Y. Punch press. No. 1,428,176; Sept. 5.
- Luthy, Joseph O., San Antonio, Tex. Hydrometer. No. 1,424,108; July 25.
- Luthy, Joseph O., San Antonio, Tex. Carburetor float. No. 1,427,306; Aug. 29.
- Luttmann, Joseph, assignor to The Mendel-Drucker Company, Cincinnati, Ohio. Trunk lock. No. 1,417,264; May 23.
- Luttrell, Peter J., Portland, Me. Claw hammer. No. 1,410,407; Mar. 21.
- Lüttringhaus, Arthur, and L. Blangey, Mannheim, Germany, assignors, by mesne assignments, to Badische Anilin- & Soda-Fabrik, Ludwigshafen-on-the-Rhine, Bavaria, Germany. Manufacture of soluble condensation products. No. 1,412,949; Apr. 18.
- Lutz, Daniel E., and F. D. Folsom, Buffalo, N. Y. Bottle. No. 1,418,814; June 6.
- Lutz, Hans, assignor to The Willys-Morrow Company, Elmira, N. Y. Tool-grinding machine. No. 1,434,131; Oct. 31.
- Lutz, Robert H., Niagara Falls, Ontario, Canada. Dipper attachment for steam shovels, and the like. No. 1,410,201; Mar. 21.
- Lutziuk, Nikolai. (See Garduliz, John, assignor.)
- Lutzmann, Friedrich, assignor to J. B. Metzler, Zurich, Switzerland. Mortise lock. No. 1,433,831; Oct. 31.
- Lux, Leo L., Greeley, Colo. Retaining attachment for operating tables. No. 1,429,956; Sept. 26.
- Luyben, Joseph A., Fort Wayne, Ind. Ironing machine. No. 1,431,592; Oct. 10.
- Luyken, Wilhelm C. W., assignor to Firm of Thu-Wu Schreibwaren-Werke Gesellschaft mit beschränkter Haftung, Hamburg, Germany. Pencil holder. No. 1,439,828; Dec. 26.
- Luzy, Antoine, Paris, France. Electric pocket lamp with mechanical electric generators. No. 1,429,601; Sept. 19.
- Luzy, Antoine, Paris, France. Electric pocket lamp. No. 1,440,021; Dec. 26.
- Lyall, A. P., & Sons Construction Company. (See Bisset, David L., assignor.)
- Lybeck, Gunnar F., Gottenborg, Sweden. Pump. No. 1,426,206; Aug. 15.
- Lyberger, Albert N., Elyria, Ohio. Car replacer. No. 1,418,588; June 6.
- Lyda, Arthur W., North Canton, Ohio. Time lock for automobiles. No. 1,415,885; May 16.
- Lydick, Charles O., Des Moines, Iowa. Locking device for gate-operating mechanism or the like. No. 1,413,674; Apr. 25.
- Lydick, John M., San Diego, Calif. Jackscrew. No. 1,422,279; July 11.
- Lydon, Michael J. (See Harrington, Joseph A., assignor.)
- Lyhne, Anker S., Bridgeport, Conn. Pocket flashlight. No. 1,408,526; Mar. 7.
- Lyhne, Anker S., Bridgeport, Conn. Flash light. No. 1,408,527; Mar. 7.
- Lyhne, Anker S., Bridgeport, Conn. Focusing device for electric lamps. No. 1,408,528; Mar. 7.
- Lyhne, Anker S., Bridgeport, Conn. Electric battery cell. No. 1,432,347; Oct. 17.
- Lyhne, Anker S., Bridgeport, Conn. Electric lantern. No. 1,432,348; Oct. 17.
- Lyhne, Anker S., Bridgeport, Conn. Battery holder. No. 1,439,429; Dec. 19.
- Lyhne, Anker S., Bridgeport, Conn. Weatherproof battery case. No. 1,439,430; Dec. 19.
- Lyle, Frederick W., Toronto, Ontario, Canada. Base for incandescent lamps. No. 1,429,602; Sept. 19.
- Lyle, Herbert L., Brookville, Pa. Rail joint. No. 1,428,107; Sept. 5.
- Lyle, Mervin E., J. J. Scully, and F. L. Capps, assignors to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Talking machine. No. 1,412,059; Apr. 11.

Alphabetical list of patentees—Continued.

- Lyle, William G., trustee. (See Frankel, E. M., and Falk, assignors.)
- Lyman, Ray J., Berkeley, Calif. Water meter. No. 1,425,876; Aug. 15.
- Lyman, Ray J., Berkeley, assignor to Great Western Meter Company, San Francisco, Calif. Liquid-measuring device. No. 1,413,988; Apr. 25.
- Lyman, Stanley W., Billings, Mont. Hinge. No. 1,416,656; May 16.
- Lymburner, Armand, Notre Dame de Grace, Quebec, Canada. Bell-controlling device. No. 1,435,168; Nov. 14.
- Lynch, Alfred J., Trenton, N. J. Figure wheeled toy. No. 1,433,832; Oct. 31.
- Lynch Glass Machinery Company. (See Lynch, James W., assignor.)
- Lynch, James A., Salt Lake City, Utah. Beet dump. No. 1,432,195; Oct. 17.
- Lynch, James E., assignor to Page & Hill Company, Minneapolis, Minn. Pole-puncturing machine. No. 1,424,498; Aug. 1.
- Lynch, James W., Alexandria, assignor to Lynch Glass Machinery Company, Anderson, Ind. Ware steadder for glass-working machines. No. 1,406,400; Feb. 14.
- Lynch, John H., et al. (See Carlson, Ivar, assignor.)
- Lynch, John T., Rochester, N. Y. Truck. No. 1,423,234; July 18.
- Lynch, Joseph H. (See Papini, Antonio, assignor.)
- Lynch, Tillman D., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Testing device. No. 1,414,427; May 2.
- Lynch, Warren O., Berkeley, Calif. Stiffener for folding books. No. 1,423,129; July 18.
- Lynch, William, Brooklyn, N. Y. Crate for milk bottles. No. 1,426,304; Aug. 15.
- Lynch, William J., Buffalo, N. Y. Dish-washing machine. No. 1,406,465; Feb. 14.
- Lynde, Carleton J., Ste. Anne de Bellevue, Quebec, Canada. Dirigible. No. 1,430,393; Sept. 26.
- Lynde, Francis G., Belvedere, England. Means for the construction of concrete slabs, walls, and other structures. No. 1,425,117; Aug. 8.
- Lynde, Francis G., Belvedere, England. Concrete slab for walls or the like. No. 1,425,118; Aug. 8.
- Lynde, Francis G., Belvedere, England. Concrete slab for the erection of cellular structures. No. 1,425,119; Aug. 8.
- Lynde, George F., Chattanooga, Tenn. Trap. No. 1,407,697; Feb. 28.
- Lynes, William W., Kamloops, British Columbia, Canada. Portable closet seat. No. 1,410,202; Mar. 21.
- Lyngar Specialty Co. (See Lyngar, Willard, assignor.)
- Lyngar, Willard, assignor to Lyngar Specialty Co., Chicago, Ill. Drink mixer. No. 1,429,747; Sept. 19.
- Lynn, Jake, Macon, Ga. Adjustable hoop. No. 1,424,661; Aug. 1.
- Lynn, John, New York, N. Y. Hygrometer. No. 1,435,247; Nov. 14.
- Lynn, John W., Lansdowne, England. Glove. No. 1,404,453; Jan. 24.
- Lynn, Mary E., Washington, D. C. Receptacle. No. 1,403,261; Jan. 10.
- Lyne, Arthur H., assignor to The Ingersoll Milling Machine Company, Rockford, Ill. Work support. No. 1,438,250; Dec. 12.
- Lyon, De Witt T., assignor of one-half to F. Mellish, Chicago, Ill. Ventilating device. No. 1,425,028; Aug. 8.
- Lyon, Edward F., Detroit, Mich. Bumper for motor-driven vehicles. No. 1,413,860; Apr. 25.
- Lyon, Ernest C., Long Beach, Calif. Brush. No. 1,410,203; Mar. 21.
- Lyon, George A., Philadelphia, Pa. Duplex buffer. No. 1,410,937; Mar. 28.
- Lyon, George A., Philadelphia, Pa. Automobile buffer attacher. No. 1,410,938; Mar. 28.
- Lyon, George A., Philadelphia, Pa. Automobile buffer attacher. No. 1,418,946; June 6.
- Lyon, George A., Philadelphia, Pa. Buffer attacher. No. 1,420,854; June 27.
- Lyon, George A., Philadelphia, Pa. Vehicle buffer device. No. 1,420,855; June 27.
- Lyon, George A., Philadelphia, Pa. Resilient front buffer. No. 1,423,570; July 25.
- Lyon, George A., Philadelphia, Pa. Automobile buffer. No. 1,423,571; July 25.
- Lyon, George A., Philadelphia, Pa. Automobile buffer. No. 1,423,572; July 25.
- Lyon, George A., Philadelphia, Pa. Resilient buffer. No. 1,423,573; July 25.
- Lyon, George A., Philadelphia, Pa. Buffer-display stand. No. 1,436,991; Nov. 28.
- Lyon, George A., Philadelphia, Pa. Automobile buffer. No. 1,436,992; Nov. 28.
- Lyon, George A., Philadelphia, Pa. Buffer-attaching device. No. 1,436,993; Nov. 28.
- Lyon, George A., Philadelphia, Pa. Rear buffer attaching device. No. 1,436,994; Nov. 28.
- Lyon, George A., Philadelphia, Pa. Automobile buffer. No. 1,436,995; Nov. 28.
- Lyon, George A., Philadelphia, Pa. Resilient buffer. No. 1,436,996; Nov. 28.
- Lyon, George A., Philadelphia, Pa. Buffer-attaching device. No. 1,437,600; Dec. 5.
- Lyon, George A., Philadelphia, Pa. Automobile buffer-attaching device. No. 1,437,601; Dec. 5.
- Lyon, Guy A., assignor to Hayes Manufacturing Company, Detroit, Mich. Hood hinge. No. 1,407,941; Feb. 28.
- Lyon, Harry. (See Barbour, P. E., and Lyon.)
- Lyon, Henry H. (See Loftin, E. H., and Lyon.)
- Lyon, Marjorie R. van W. (See Pardee, F., jr., and Lyon.)
- Lyon Metallic Manufacturing Company. (See O'Connor, John B., assignor.)
- Lyon & Healy. (See Healy, M. A., and Kirk, assignors.)
- Lyon & Healy. (See Healy, Marquette A., assignor.)
- Lyon & Healy. (See Jefferson, B. H., and Kirk, assignors.)
- Lyon & Healy. (See Kirk, Walter I., assignor.)
- Lyons, Benjamin F. (See Robinson, Walter W., assignor.)
- Lyons, Earle B., assignor to J. D. Gardiner and G. E. Beardsell, Nashua, N. H. Leather-fitting machine. No. 1,404,399; Jan. 24.
- Lyons, Edw. M., et al. (See Parker, Charles W., assignor.)
- Lyons, Harry C., New York, N. Y. Dispensing means for beverages containing chocolate, cocoa, etc. No. 1,428,043; Sept. 5.
- Lyons, Henry, et al. (See Crossen, George M., assignor.)
- Lyons, James, Ogden, Utah. Freight-car door. No. 1,404,622; Jan. 24.
- Lyons, John F., West Springfield, assignor to Kibbs Brothers Company, Springfield, Mass. Cardboard display box. No. 1,407,073; Feb. 21.
- Lyons, John F., West Springfield, Mass. Folding box. No. 1,433,288; Oct. 24.
- Lyons, Mable E., et al. (See Parker, Charles W., assignor.)
- Lyons, Robert N. and W. E., Winnipeg, Manitoba, Canada. Building construction. No. 1,414,293; Apr. 25.
- Lyons, Sigmund, New York, N. Y. Safety appliance for automobiles. No. 1,413,042; Apr. 18.
- Lyons, Walter E. (See Lyons, Robert N. and W. E.)
- Lyriadon Manufacturing Company. (See Seabrook, Bagster R., assignor.)
- Lysen, John B., Chicago, Ill., assignor to J. W. Butler Paper Company. Calculator. No. 1,418,947; June 6.
- Lysiak, Antoni, Manchester, Mass. Compasses. No. 1,402,509; Jan. 3.
- Lysiak, Antoni, Manchester, Mass. Square-hole cutter. No. 1,402,510; Jan. 3.
- Lysiak, Antoni, Manchester, Mass. Joint or connection. No. 1,428,792; Sept. 12.
- Lysiak, Antoni, Manchester, Mass. Horseshoe. No. 1,435,169; Nov. 14.
- Lysle, Edmond H. (See Hill, Myron F. and L. D., assignors.)
- Lysons, Noel H., Montreal, Canada, assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical switching device. No. 1,432,883; Oct. 24.
- Lyter, Edward J., Lebanon, Pa. Chain-making machine. No. 1,430,456; Sept. 26.
- Lyth, John J., Valleyfield, Quebec, Canada. Method of and apparatus for transporting and impregnating material. No. 1,403,126; Jan. 10.
- Lytle, Harry R., Sacramento, Calif. Land leveler. No. 1,429,516; Sept. 19.
- Lytle, William J. (See Milner, E. E., and Lytle.)
- M. L. Experimental Limited. (See Martin, H. P., and Lucas, assignors.)
- M. S. Company. (See Nittel, Frederick W., assignor.)
- M. S. Company. (See Schweinsbaut, Max, assignor.)
- M-V. All Weather Train Controller Company. (See Minnick, Alfred, assignor.)
- Maag, Max, and E. Buchter, Zurich, Switzerland. Device for tightening bands of rolls simultaneously and equally. No. 1,405,852; Feb. 7.
- Maakestad, Micheal J., Chicago, Ill. Belt. No. 1,424,110; July 25.
- Maas, Fred W., et al. (See Boettcher, Otto J., assignor.)
- Maass, Otto, Montreal, Quebec, Canada. Separating aqueous and other vapors from fluids and solids and for preparing dilute sulphuric acid. No. 1,417,618; May 30.
- Maass & Kemper Inc. (See Menaker, Morris E., assignor.)
- Mabee, Charles R., Toledo, Ohio. Device for the evaporation of liquids and in the drying of substances. No. 1,402,238; Jan. 3.
- Mabee, Charles R., Toledo, Ohio. Evaporation. No. 1,420,641; June 27.
- Mabee, Charles R., Cleveland, Ohio. Centrifugal separator and evaporator. No. 1,420,642; June 27.
- Mabee, Charles R., Toledo, Ohio. Treating liquid substances. No. 1,420,644; June 27.
- Mabee, Charles R., Toledo, Ohio. Evaporating apparatus. No. 1,420,645; June 27.
- Mabee, Charles R., Toledo, Ohio. Treating liquid substances. No. 1,420,646; June 27.
- Mabee, Charles R., Toledo, Ohio. Apparatus for treating substances. No. 1,420,647; June 27.
- Mabee, Charles R., Toledo, Ohio. Multiple-effect apparatus. No. 1,420,648; June 27.
- Mabee, Charles R., Toledo, Ohio. Devices for the evaporation of liquids and in the drying of substances. No. 1,420,649; June 27.
- Mabee, Charles R., Toledo, Ohio. Centrifugal drier. No. 1,420,650; June 27.
- Mabee, Charles R., Cleveland, Ohio. Treating liquid substances to change the condition thereof by evaporation. No. 1,420,643; June 27.

- Mabee, Charles R., Toledo, Ohio. Device for the evaporation of liquids and in the drying of substances. No. 1,433,141; Oct. 24.
- Mabee, Leroy R., Hailey, Idaho. Fuel mixer for gasoline engines. No. 1,418,877; June 6.
- Mabey, Charles W., Indianapolis, Ind. Switch for electric flatirons. No. 1,410,262; Mar. 21.
- Mabey, Charles W., Indianapolis, Ind. Nut warming and vending machine. No. 1,425,531; Aug. 15.
- Mabey, Charles W., Indianapolis, Ind. Corn-popping machine. No. 1,436,400; Nov. 21.
- Mabon, Mary A., St. Louis, Mo. Clothespin bag. No. 1,427,219; Aug. 29.
- Mabrey, Phil L., Columbus, Ohio. Laundry preparation. No. 1,435,541; Nov. 14.
- Mabry, Rexford C., Nashua, N. H. Centrifugal pulp-drying machine. No. 1,415,939; May 16.
- MacAllister, Thomas C., Stratford, Conn. Electric signal for electric railways. No. 1,436,597; Nov. 21.
- Macaluso, Antonio, Geneva, Ohio. Sole or heel plate. No. 1,306,401; Feb. 14.
- MacAskill, Daniel A., assignor of one-third to J. A. Izzo and one-third to A. Pacelli, Brooklyn, N. Y. Window. No. 1,429,897; Sept. 19.
- MacAulay, Daniel L., Inverness, Nova Scotia, Canada. Clothesline reel. No. 1,406,882; Feb. 14.
- MacAvoy, Josephine L., Buckhannon, W. Va. Carrier for photographic backgrounds. No. 1,412,697; Apr. 11.
- Macbeth, Allan, Paris, assignor to Sté. The Dunlop Rubber Co., Limited, Paris, France. Reservoir for liquid fuel. No. 1,406,667; Feb. 14.
- Macbeth, Arthur L., Baltimore, Md. Picture-projection theater. No. 1,419,281; June 13.
- Macbeth, Colin, Birmingham, assignor to The Dunlop Rubber Company, Limited, Westminster, London, England. Transporting system particularly for use in connection with the manufacture of tires. No. 1,410,821; Mar. 28.
- Macbeth, Norman, New York, N. Y. Color-identifying apparatus. No. 1,408,109; Feb. 28.
- MacCamy, Harry E., assignor to Southwestern Condenser Company, Los Angeles, Calif. Condenser and cooler. No. 1,427,611; Aug. 29.
- MacCarthy, Florence B., Marysville, assignor to Mineral and Chemical Company of Utah, Salt Lake City, Utah. Treating ores of aluminum, especially alunite. No. 1,413,045; Apr. 18.
- Macchia, Camillo, Ardmore, assignor to The United States Fire Works Manufacturing Company, Cardington, Pa. Method and apparatus for charging toy torpedoes. No. 1,427,906; Sept. 5.
- MacCormac, Rockwell M., Kansas City, Mo. Paper-roll holder. No. 1,433,835; Oct. 31.
- MacCormack, David D. (See Collins, F.; and MacCormack.)
- MacCormack, William F. (See Stowell, Elbridge Z., assignor.)
- Macdonald, Charles W., New York, N. Y. Loose-leaf binder. No. 1,408,817; Mar. 7.
- Macdonald, David B., Leicester, England. Drying apparatus employed in the manufacture of boots and shoes. No. 1,413,862; Apr. 25.
- Macdonald, David B., Leicester, England. Manufacture of boots and shoes and stiffeners therefor. No. 1,415,378; May 9.
- Macdonald, Duncan, Pittsburgh, Pa. Motor vehicle. No. 1,428,550; Sept. 12.
- Macdonald, Duncan, Pittsburgh, Pa. Vehicle rear end. No. 1,431,534; Oct. 10.
- MacDonald, Duncan, Garfield, Ohio. Burner for kerosene and the like. No. 1,434,715; Nov. 7.
- Macdonald, Francis R., London, England. Oil burner. No. 1,431,746; Oct. 10.
- MacDonald, Frank J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Boot or shoe tree. No. 1,438,962; Dec. 19.
- MacDonald, J. J., et al. (See Belair, Joseph A. P., assignor.)
- MacDonald, Jack B., Oakland, Calif. Rotary bake oven. No. 1,403,796; Jan. 17.
- MacDonald, James M., East Orange, N. J. Test and practice apparatus for golf players. No. 1,419,636; June 13.
- Macdonald, John W. F., Brighton, Mass., assignor to The Merrill Process Company. Heater system. No. 1,437,187; Nov. 28.
- MacDonald, Frederick L., assignor to Flostik Company, Waltham, Mass. Dental tool. No. 1,417,848; May 30.
- Macdonald, Harry P., Montclair, N. J., assignor to Sneed & Company. Method of and apparatus for heat treating metallic articles. No. 1,414,366; May 2.
- MacDonald John C., et al. (See Brown, Theodore H., assignor.)
- MacDonald, Kenneth P., Legaspi, P. I. Automatic self-locking differential gearing. No. 1,431,535; Oct. 10.
- Macdonald, Maynard F., Victoria, British Columbia, Canada. Lock for automobiles. No. 1,404,037; Jan. 17.
- Macdonald, Murdock, assignor to The Macdonald Ticket and Ticket Box Company, Cleveland, Ohio. Register. No. 1,437,668; Dec. 5.
- MacDonald, Robert, assignor, by mesne assignments, to F. W. Mangold, Schenectady, N. Y. Vulcanizer. No. 1,410,693; Mar. 28.
- Macdonald, Robert, Jr. (See Richmond, H. A., and Macdonald.)
- Macdonald, Stanley L., Caulfield, Victoria, Australia. Toy rocker. No. 1,438,449; Dec. 12.
- Macdonald Ticket and Ticket Box Company, The. (See Macdonald, Murdock, assignor.)
- MacDonald, William T., Hayden, Ariz. Means for crushing and grinding ore and rock. No. 1,431,475; Oct. 10.
- MacDougall, Hugh K., Ayer, Mass. Advertising device. No. 1,405,304; Jan. 31.
- MacDowell, Andrew S., Rochester, N. Y. Typewriter copyholder. No. 1,439,250; Dec. 19.
- MacDowell, Charles H., assignor to Armour Fertilizer Works, Chicago, Ill. Production of sulphuric acid. No. 1,402,941; Jan. 10.
- MacDowell, Charles H., Chicago, Ill., H. H. Meyers and W. B. Pattison, Pittsburgh, Pa., assignors to Armour Fertilizer Works, Chicago, Ill. Oxidation of ammonia. No. 1,420,201; June 20.
- MacDowell, Charles H., Chicago, Ill., and H. H. Meyers, Pittsburgh, Pa., assignors to Armour Fertilizer Works, Chicago, Ill. Manufacture of sulphuric acid. No. 1,420,202; June 20.
- MacDowell, Charles H., Chicago, Ill., and H. H. Meyers, Pittsburgh, Pa.; said Meyers assignor to Armour Fertilizer Works, Chicago, Ill. Catalyst. No. 1,420,203; June 20.
- MacDowell, George S., New York, and H. A. Perkins, assignors to American Wood Working Machinery Company, Rochester, N. Y. Stock-positioning mechanism. No. 1,427,757; Aug. 29.
- Mace, Arthur T., East Cleveland, assignor to The Domestic Electric Company, Cleveland, Ohio. Sewing-machine motor drive. No. 1,417,676; May 30.
- Mace, Harrison, Sidewood, Saskatchewan, Canada. Electric engine. No. 1,428,489; Sept. 5.
- Mace, James H. R., Liverpool, England. Winch for ships' boat-lowering mechanism and other purposes. No. 1,406,570; Feb. 14.
- Macfadden, Bernarr, New York, N. Y. Combined moistener and furnace. No. 1,434,135; Oct. 31.
- MacFarland, Allis M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Sherdizing furnace. No. 1,433,735; Oct. 31.
- Macfarlane Communications Corporation. (See Macfarlane, William W., assignor.)
- Macfarlane, James L., deceased, Atwoodville, Conn.; H. T. Clark, administrator. Textile machine. (Reissue.) No. 15,510; Dec. 26.
- Macfarlane, James W., et al. (See Anderson, Albin E., assignor.)
- Macfarlane, William W., Philadelphia, Pa., assignor to Macfarlane Communications Corporation, New York, N. Y. Electroresponsive device. No. 1,402,305; Jan. 3.
- Macfarlane, William W., Elkins Park, Pa., assignor to Macfarlane Communications Corporation, New York, N. Y. Train-control system. No. 1,431,747; Oct. 10.
- MacGahan, Paul, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Measuring instrument. No. 1,403,110; Feb. 28.
- MacGahan, Paul, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Relay. No. 1,421,272; June 27.
- MacGill, Charles F., Jr., Cambridge, Mass. Telescopic fastener. No. 1,431,674; Oct. 10.
- MacGregor, David G., G. B. Millen, Wilmington, and J. C. W. Stanley, Santa Cruz, assignors to The Title Guarantee and Trust Company, Los Angeles, Calif. Method and apparatus for treating liquids. No. 1,420,046; June 20.
- MacGregor, Robert M., Hartford, Conn. Punch press. No. 1,417,539; May 30.
- MacGregor, Roy S. (See Wass, J., and MacGregor.)
- MacGregor, Wallace F., and N. R. Krause, assignors to J. I. Case Threshing Machine Company, Racine, Wis. Self-feeder for thrashing machines. No. 1,418,724; June 6.
- Mach, Anton, Atlanta, Ga. Making shoe polish. No. 1,432,707; Oct. 17.
- Machen Electric Manufacturing Company. (See Stoddard, Hart A., assignor.)
- Macheroux, Louis, assignor of one-half to K. Matheus, Chicago, Ill. Garment and the like. No. 1,416,486; May 16.
- Machinery Company of America. (See Krull, August C., assignor.)
- Machold, Charles M., Philadelphia, Pa. Coal briquette and manufacturing the same. No. 1,404,869; Jan. 31.
- Macholl, Edward A., Detroit, Mich. Net-weight indicator. No. 1,436,319; Nov. 21.
- MacIlwaine, Alfred W., and G. F. Holdcroft, North Ferriby, England. Extraction of oil by volatile solvents. No. 1,410,822; Mar. 28.
- MacInnes, Hugh, Jersey City, N. J. Producing flexible shingles. No. 1,431,476; Oct. 10.
- MacInnes, Hugh, Jersey City, N. J. Flexible shingle. No. 1,436,813; Nov. 28.
- MacInnes, Neil, Chicago, Ill. Automobile bumper. No. 1,422,103; July 11.
- MacIntyre, Edwin J. G., Clarence, assignor of one-half to B. J. Nolan, Ottawa, Ontario, Canada. Oil burner. No. 1,409,145; Mar. 7.
- MacIntyre, Louis G., Broughty Ferry, Scotland. Connection with balling machines for sliver and the like. No. 1,404,623; Jan. 24.

Alphabetical list of patentees—Continued.

- Macintyre, Louis G., Broughty Ferry, Scotland. Sliver-lap-feeding mechanism. No. 1,424,580; Aug. 1.
- Mack, August G., Oolitic, Ind. Air hammer. No. 1,436,512; Nov. 21.
- Mack, Charles L., Chicago, Ill. Automaton. No. 1,410,408; Mar. 21.
- Mack, Herman, Hamm, Germany. Extracting coal in mines. No. 1,422,874; July 18.
- Mack, James E., Hicksville, N. Y. Mechanical indexing means. No. 1,410,941; Mar. 28.
- Mack, Milton M., West Chicago, Ill. Building block. No. 1,403,177; Jan. 10.
- Mack, Patrick H., Bradford, assignor to Oil Well Supply Company, Pittsburgh, Pa. Disk and screw packer. No. 1,436,274; Nov. 21.
- Mack, Rudolph A., Gallipolis, Ohio. Child's occupant propelled vehicle. No. 1,418,817; June 6.
- Mack, Rudolph A., Gallipolis, Ohio. Coaster sled. No. 1,418,818; June 6.
- Mack, Rudolph A., Gallipolis, Ohio. Steering mechanism. No. 1,422,284; July 11.
- Mack, Rudolph A., Gallipolis, Ohio. Coaster. No. 1,425,880; Aug. 15.
- Mackay, Alexander F., Glasgow, Scotland. Gearing. No. 1,403,430; Jan. 10.
- Mackay, Alfred, Philadelphia, Pa., assignor to G. B. Ferrier, Moorestown, N. J. Rotary drier. No. 1,406,991; Feb. 21.
- Mackay, Arthur B., assignor to John J. Grothe Company, Inc., Woburn, Mass. Refrigerating apparatus. No. 1,418,665; June 6.
- Mackay, Norman M., Worcester, Mass. Stabilizer for lower dentures. No. 1,432,708; Oct. 17.
- Mackay, William G., Worcester, Mass. Pump suction strainer. No. 1,432,709; Oct. 17.
- MacKean, William M. (See Acton, W., and MacKean.)
- MacKellar, Robert E., Ashland, Ohio. Adjustable portable door fastener. No. 1,418,593; June 6.
- MacKenzie, Anna A., Elmhurst, and R. C. Benner, Bay-side, N. Y., assignors to Union Carbide & Carbon Research Laboratories, Inc. Coated dry-cell electrode. No. 1,437,603; Dec. 5.
- MacKenzie, Duncan G. (See Wellington, J. M., and MacKenzie.)
- MacKenzie, Fred L. (See Goddu, G., and MacKenzie.)
- MacKenzie, Fred L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. No. 1,403,511; Jan. 17.
- MacKenzie, Fred L., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for inserting fastenings. No. 1,410,694; Mar. 28.
- MacKenzie, Fred L., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Work support. No. 1,417,540; May 30.
- MacKenzie, Fred L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stock-feeding mechanism. No. 1,432,770; Oct. 24.
- MacKenzie, George W., Beaver, assignor to Guarantee Liquid Measure Company, Rochester, Pa. Totalizing meter. No. 1,413,046; Apr. 18.
- MacKenzie, James H., Sydney, New South Wales, Australia. Air-tightly sealing composition for metal containers, specially those for food. No. 1,422,114; July 11.
- MacKenzie, John A., Alameda, Calif. Reinforced metallic lining. No. 1,419,595; June 13.
- MacKenzie, Lorne E. (See Humphries, F. W., and MacKenzie.)
- MacKenzie, Louis, and W. Richardson, jr., Ensley, Ala. Coal-washer jig. No. 1,439,431; Dec. 19.
- MacKenzie, Peter, and N. G. Cosman, Coronado, Calif. Cutter bar for lawn mowers. No. 1,437,434; Dec. 5.
- MacKenzie, Philip, San Francisco, Calif. Combined drill and valve grinder. No. 1,425,402; Aug. 8.
- MacKenzie, Robert W. R. (See Lumsden, J. D., Mackenzie, Robinson, and Fort.)
- MacKenzie, Robert W. R., et al., executors. (See Lumsden, J. D., Mackenzie, Robinson, and Fort.)
- MacKenzie, Thomas J., Jr., Philadelphia, Pa. Latch. No. 1,412,363; Apr. 11.
- MacKenzie-Kennedy, Chessborough J. H., Westminster, London, England. Aeroplane. No. 1,411,115; Mar. 28.
- MacKewen, Watson, Detroit, Mich. Vehicle top. (Re-issue.) No. 15,392; June 20.
- Mackey, James D., Columbia, S. C. Clarinet. No. 1,424,253; Aug. 1.
- Mackie, John A., McKees Rocks, and F. W. Waddell, Crafton Borough, Pa. Valve. No. 1,436,768; Nov. 28.
- Mackie, Peter J., Glasgow, Scotland. Device for securing the corks or stoppers of bottles against unauthorized removal. No. 1,437,380; Nov. 28.
- Mackie, Robert, Woolston, England. Liquid-fuel furnace. No. 1,436,888; Nov. 28.
- Mackintosh, Edward D., Brooklyn, assignor to S. S. Hepworth Company, New York, and Brooklyn Trust Company, Brooklyn, N. Y. Centrifugal-machine discharger. No. 1,431,016; Oct. 3.
- Mackintosh Hemphill Company. (See McMillen, Samuel, assignor.)
- Mackintosh-Hemphill Company. (See Talbot, Howard H., assignor.)
- Mackovitch, Joseph F., Conway, assignor of one-third to M. Mailing, Pittsburgh, Pa. Burglar alarm. No. 1,421,972; July 4.
- MacLachlan, John C., St. Paul, Minn. Reducing semifluid food substances to dry powdered form. No. 1,417,983; May 23.
- MacLachlan, John C., assignor to Standard Food Products Company, St. Paul, Minn. Rotary spraying head. No. 1,420,722; June 27.
- MacLagan, John C. M., Glasgow, Scotland. Scavenging device for combustion engines. No. 1,421,273; June 27.
- MacLagan, John C. M., Drumchapel, Scotland. Two-stroke-cycle internal-combustion engine. No. 1,436,596; Nov. 21.
- MacLardy, Hugh A., Roslindale, Mass. Auxiliary seat for motor vehicles. No. 1,436,275; Nov. 21.
- MacLaughlin, Joseph S. (See Jones, Martin, assignor.)
- MacLaurin, John, Brookfield, Mass. Supplying an article with waterproofing adhesive. No. 1,413,921; Apr. 25.
- MacLaurin, Robert D., Toronto, Ontario, Canada. Singeing hogs. No. 1,422,217; July 11.
- MacLean, Donald, et al. (See Gauvin, Henri, assignor.)
- MacLean, George H., New Haven, Conn. Truck for transferring concrete. No. 1,407,698; Feb. 28.
- MacLeod, Angus P. (See MacLeod, George S., assignor.)
- MacLeod, Cameron, et al., trustees. (See Melcher, George S., assignor.)
- MacLeod, Eldon, et al., trustees. (See Melcher, George S., assignor.)
- MacLeod, George S., Seattle, Wash. Headgear for preventing baldness. No. 1,434,745; Nov. 7.
- MacLeod, George S., assignor of one-half to A. P. MacLeod, Seattle, Wash. Universal bracket for automobile bumpers or fenders. No. 1,407,431; Feb. 21.
- MacLeod, James, assignor of one-half to H. Reid, Glasgow, Scotland. Air-cooled or evaporative surface condenser. No. 1,427,159; Aug. 29.
- MacLeod, James, assignor of one-half to H. Reid, Glasgow, Scotland. Locomotive. No. 1,438,319; Dec. 12.
- MacLeod, Walter. (See Hext, William A., assignor.)
- MacLewee, Carrie H. (See MacLewee, William S., assignor.)
- MacLewee, William S., assignor to C. H. MacLewee, Trenton, N. J. Fuse plug. No. 1,410,695; Mar. 28.
- Macklin, Frederick J., Grimsby, Ontario, Canada. Shock absorber. No. 1,420,047; June 20.
- Macklin, Otto H., assignor to The Miller Rubber Company, Akron, Ohio. Apparatus for producing thin rubber sheets. No. 1,421,795; July 4.
- Macloskie, George, Erie, Pa., assignor to General Electric Company. Combined air-brake and car-door-operating equipment. No. 1,408,111; Feb. 28.
- Macloskie, George, Erie, Pa., assignor to General Electric Company. Safety car-control equipment. No. 1,421,796; July 4.
- Macloskie, George, Erie, Pa., assignor to General Electric Company. Safety car control and air-brake equipment. No. 1,426,893; Aug. 22.
- Macloskie, George, and C. A. Ives, Erie, Pa., assignors to General Electric Company. Combined air and vacuum brake system. No. 1,412,662; Apr. 11.
- Macloskie, George, and C. A. Ives, Erie, Pa., assignors to General Electric Company. Safety car control and air-brake equipment. No. 1,419,873; June 13.
- Macloskie, George, and C. A. Ives, Erie, Pa., assignors to General Electric Company. Combined car door control and air-brake equipment. No. 1,431,477; Oct. 10.
- MacMahon, James H., Niagara Falls, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Preparation of liquid bleach solutions. No. 1,426,752; Aug. 22.
- MacMahon, James H., Saltville, Va., assignor to The Mathieson Alkali Works, Inc. Producing barium chloride. No. 1,428,646; Sept. 12.
- Macmanus, Augustus F. W., assignor of one-tenth to J. E. Greer and J. B. Stafford, San Antonio, Tex. Medicinal apparatus. No. 1,424,111; July 25.
- MacMechen, Thomas R., Newark, N. J. Propeller. No. 1,432,710; Oct. 17.
- MacMichael, Alexander, and C. Schink, Ashland, Ky. Means for casting ingots. No. 1,417,269; May 23.
- MacMichael, Ross F., Pittsburgh, Pa., assignor to The G. Piel Company, Inc., Long Island City, N. Y. Indicating device. No. 1,406,200; Feb. 14.
- MacMichael, Ross F., Hayden, Ariz., assignor to The G. Piel Company, Inc., Long Island City, N. Y. Gasoline gauge. No. 1,406,201; Feb. 14.
- Macmillan, Campbell, Schenectady, N. Y., assignor to General Electric Company. Electric ship propulsion. No. 1,419,874; June 13.
- MacMillan, Donald B., Freeport, Me. Heater. No. 1,437,812; Dec. 5.
- MacMillan, Harry, Philadelphia, Pa. Flush-tank-operating lever. No. 1,436,628; Nov. 21.
- MacMillan, Latimer W., Boston, Mass. Cylinder and piston mechanism. No. 1,431,317; Oct. 10.
- Macnaughtan, James. (See Lane, J. D., and Macnaughtan.)
- Macnaughton, Joseph, Airdrie, and W. T. Oldrieve, Edinburgh, Scotland. Roof construction. No. 1,410,823; Mar. 28.
- Macneale, Neil, assignor to The Corcoran-Victor Company, Cincinnati, Ohio. Lamp. No. 1,413,177; Apr. 18.
- Macneale, Neil, assignor to Corcoran-Victor Company, Cincinnati, Ohio. Lamp. No. 1,414,518; May 2.
- Macneil, Henry T. (See Dyer, J. L., and Macneil.)
- MacNeill, John B. (See Christman, G. L., and MacNeill.)

- MacNeill, John B. (See Fortescue, C. L., and MacNeill.)
 Macneir, Edwin, Philadelphia, Pa., assignor to Edna Brass Manufacturing Company, Cincinnati, Ohio. Water gauge. No. 1,408,818; Mar. 7.
 Macnicol, Arnold N., Melbourne, Victoria, Australia. Apparatus for distributing materials. No. 1,405,731; Feb. 7.
 Macnicoll, Donald. (See Cockburn, D., and MacNicoll.)
 Macomic, Chester A., Chicago, Ill. Type holder. No. 1,434,958; Nov. 7.
 MacOrquodale, Lorne H., Lynn, assignor to Forbes Lithograph Manufacturing Company, Boston, Mass. Construction of display screens and the like. No. 1,432,404; Oct. 17.
 Macpherson, Douglas G., Portage La Prairie, Manitoba, Canada. Motor-car brake. No. 1,426,753; Aug. 22.
 Macpherson, James, jr., New York, N. Y. Stoker. No. 1,424,575; Aug. 1.
 Macpherson, James W., Los Angeles, Calif. Breath-exercising device. No. 1,424,732; Aug. 1.
 Macpherson, Robert, New York, N. Y. Portable milling machine. No. 1,437,813; Dec. 5.
 MacRae, Duncan N., Maxville, Ontario, Canada. Aeroplane. No. 1,409,305; Mar. 14.
 MacFavish, Duncan, Swampscott, assignor to C. H. Richards, Newton, Mass. Lubricant feed for universal joints. No. 1,438,605; Dec. 12.
 Maculskiys, Augustinas, assignor of one-half to A. Remekis, Newark, N. J. Ring watch. No. 1,404,536; Jan. 24.
 Macy, Alfred J., assignor to Macy Art Process Corporation, Chicago, Ill. Insert tab. No. 1,433,636; Oct. 31.
 Macy Art Process Corporation. (See Macy, Alfred J., assignor.)
 Macy, Barnett W., Jacksonville, Fla., assignor, by mesne assignments, to Electric Heating Corporation. Electrically-heated garment presser. No. 1,420,636; June 27.
 Macy, Barnett W., Jacksonville, Fla., assignor, by mesne assignments, to Electric Heating Corporation. Electric heater. No. 1,429,898; Sept. 19.
 Macy, Burt H., Boston, Mass. Selective elevator lock. No. 1,413,752; Apr. 25.
 Madaler, Ferdinand V., Good Ground, assignor to Audible Pictures Corporation, Brooklyn, N. Y. Combined picture-projecting machine and phonograph. No. 1,408,620; Mar. 7.
 Madaler, Ferdinand V., Good Ground, assignor to Audible Pictures Corporation, Brooklyn, N. Y. Combined picture-taking and phonograph-record-making machine. No. 1,408,621; Mar. 7.
 Madara, Albert H., Swedesboro, N. J. Demountable rim. No. 1,427,006; Aug. 22.
 Maday, Joseph F. (See Durbin, Frederick A., assignor.)
 Madden, James P., and L. Fisher, assignors to Bethlehem Steel Company, Bethlehem, Pa. Filling high-explosive containers. No. 1,420,637; June 27.
 Madden, Mark F., Chicago, Ill. Rest-producing structure. No. 1,415,597; May 9.
 Madden, William B., New York, N. Y. Faucet. No. 1,411,972; Apr. 4.
 Maddocks, George B., Allston, Mass. Steam generator. No. 1,413,863; Apr. 25.
 Maddock's, Thomas Sons Co. (See Kelly, John F., assignor.)
 Maddox, Jesse, Moberly, Mo. Antifreezing attachment for automobile radiators. No. 1,437,113; Nov. 28.
 Maddox, Robert A., assignor of one-half to C. C. Crawford, Los Angeles, Calif. Automatic sewer-flushing device. No. 1,437,000; Nov. 28.
 Maddox, Robert D., U. S. Army. Mixing and grinding apparatus eccentrically operated. No. 1,414,197; Apr. 25.
 Maddox, William T., Alexandria, La. Perpetual calendar. No. 1,435,248; Nov. 14.
 Maddux, Charles A., Portland, Oreg. Spotlight for automobiles. No. 1,428,103; Sept. 5.
 Maddux, Forrest E., Pittsburgh, Pa. Soap dispenser. No. 1,412,883; Apr. 18.
 Maddy, James H., New York, N. Y. Preparation of iron or steel for lead and tin coating. No. 1,413,343; Apr. 18.
 Madej, Józef, Tolleston, Ind. Fishing rod. No. 1,406,268; Feb. 14.
 Mader, Joseph. (See Allen, C. J., and Mader.)
 Mader, Joseph, assignor of one-third to H. H. Luce, Minneapolis, Minn. Repeating rifle. No. 1,404,040; Jan. 17.
 Mader, Joseph, assignor, by mesne assignments, to Beeman Tractor Company, Minneapolis, Minn. Steering-post support for traction machines. No. 1,417,270; May 23.
 Madge, Norman G. (See Keith, C. H., and Madge.)
 Madigan, James T., Colorado Springs, Colo. Grass catcher. No. 1,411,289; Apr. 4.
 Madigan, Thomas J., New York, N. Y., assignor to Madigan Union Corporation. Valve. No. 1,410,205; Mar. 21.
 Madigan, Thomas J., Brooklyn, assignor of one-fourth to J. O. Schwank, New York, N. Y. Sprinkler head. No. 1,422,875; July 18.
 Madigan, Thomas V., Red Hook, N. Y. Cover for garbage cans. No. 1,409,387; Mar. 14.
 Madigan Union Corporation. (See Madigan, Thomas J., assignor.)
 Madinabeitia, Frederic, Co. (See Ugaldca, P., Madinabeitia.)
 Madinger, Gottlieb F., St. Joseph, Mo. Automatic foot, toe, and ankle brace. No. 1,429,604; Sept. 19.
 Madison, George B., Muskegon, Mich., assignor to Manning, Maxwell & Moore, Inc., New York, N. Y. Lathe tool. No. 1,405,605; Feb. 7.
 Madison, John W., Reidsville, N. C. Speed governor for internal-combustion engines. No. 1,409,115; Mar. 7.
 Madison-Kipp Corporation. (See Coleman, Thomas E., assignor.)
 Madörin, Albert, Quarten, Switzerland. Fishing boat. No. 1,414,429; May 2.
 Madsen, Charles H., Troy, N. Y. Step-cutting device. No. 1,419,875; June 13.
 Madsen, Helmer M. (See Sanness, Harold B., assignor.)
 Madsen, Thorvald A. (See Johnson, D. L., and Madsen.)
 Madson, Amos, Pontiac, Ill., assignor to Norway Welt Shoe Corporation, Wilmington, Del. Die for shoe soles. No. 1,418,317; June 6.
 Madson, Henry, Pelican Rapids, Minn. Potato sorter or screening apparatus. No. 1,430,664; Oct. 3.
 Madson, Henry M. (See Blair, Henry, assignor.)
 Mae, Anton, New Haven, Conn. Belt buckle. No. 1,424,417; Aug. 1.
 Maechler, Walter, assignor to Frigid Fluid Company, Chicago, Ill. Casket-lowering device. No. 1,402,781; Jan. 10.
 Maede, Leland S., San Francisco, Calif. Can-feeding device. No. 1,426,659; Aug. 22.
 Maede, Leland S., San Francisco, Calif. Coffee roaster. No. 1,439,317; Dec. 19.
 Maeder, Horst. (See Willstätter, R., Wolfes, and Maeder.)
 Maeder, Horst. (See Wolfes, O., and Maeder.)
 Maegly, Frederick C. (See Posson, Edward, assignor.)
 Maehler, Arthur, Chicago, Ill. Drying-oven door and doorway. No. 1,418,594; June 6.
 Maenchen, Fritz, et al. (See Theiss, K., Maenchen, Steindorff, and Gilyoy.)
 Maer, Morris, Brooklyn, N. Y. Means for manipulating collapsible tubular containers. No. 1,417,271; May 23.
 Maeshima, Shintaro, Tokyo, Japan. Magnetic healing apparatus. No. 1,421,516; July 4.
 Maeulen, Frederick, Rahway, and G. L. Van Allen, Newark, N. J., assignors to Baker & Company, Inc. Facing pin for artificial teeth. No. 1,429,748; Sept. 19.
 Maeulen, Frederick, Rahway, and G. L. Van Allen, Newark, N. J., assignors to Baker & Company, Inc. Lock for orthodontic appliances. No. 1,429,749; Sept. 19.
 Maft, Delmont C. (See McHugh, T. J., and Maft.)
 Mag, Charles. (See Gutekunst, G., and Mag.)
 Magaldi, E., Naples, Italy. Shoe. No. 1,423,445; July 18.
 Magalis, R. E., et al. (See Blanton, Fred D., assignor.)
 Magalski, John F., assignor of one-half to A. J. Schmitt, Minneapolis, Minn. Workbench. No. 1,426,660; Aug. 22.
 Magaton, Silvio, New York, N. Y. Temperature-alarm device. No. 1,410,490; Mar. 21.
 Magee, Allan A. (See Chapdelaine, Norbert, assignor.)
 Magee Carpet Co., The. (See McCollum, Alfred F., assignor.)
 Magee Furnace Company, Inc. (See Wiley, Clarence F., assignor.)
 Maggiora, Demetrio, Florence, Italy. Means for securing tires to rims of vehicles. No. 1,429,152; Sept. 12.
 Maggiora, Demetrio, Florence, Italy. Process and apparatus for producing bodies under tension to be used as tires for vehicle wheels and the like. No. 1,429,605; Sept. 19.
 Magic Hair Curler Co. (See West, Augustus A., assignor.)
 Magidson, Frank, Pittsburgh, assignor, by mesne assignments, to Davis Automatic Cradle Company, Uniontown, Pa. Spring-motor mechanism. No. 1,420,048; June 20.
 Magidson, Israel, J. Arenz, and O. Pfefferkorn, Milwaukee, Wis. Cigar-packing device. No. 1,410,109; Mar. 21.
 Magill, John, Milford, Mass. Flax-pulling mechanism. No. 1,403,262; Jan. 10.
 Maginn, Edward F., et al. (See Owen, Robert H., assignor.)
 Magna, Russell W., Holyoke, Mass. Valve-cage remover. No. 1,437,983; Dec. 5.
 Magnavox Company, The. (See Pridham, Edwin S., assignor.)
 Magnet-Werk G. m. b. H. Eisenach Spezialfabrik für Elektromagnet-Apparate. (See Philipp, Richard, assignor.)
 Magnetic Drink Mixer Company. (See Stainbrook, Forest A., assignor.)
 Magnetic Manufacturing Co. (See Bethke, J. P., and Stearns, assignors.)
 Magnetic Pigment Company. (See Fireman, Peter, assignor.)
 Magno Storage Battery Corporation. (See Meyer, S. M., and James, assignors.)
 Magnolia Petroleum Company. (See Dickens, C. S., Schley, and Newton, assignors.)
 Magnus, Gustaf W., Seattle, Wash. Waterproofing composition. No. 1,416,852; May 23.
 Magnus, Philip. (See Lansdown, S. C., and Magnus.)
 Magnuson, Gunard, et al. (See Lindholm, Oscar, assignor.)
 Magnuson, Gust A., Rock Falls, Ill. Angle-cutting guide for lathes. No. 1,435,408; Nov. 14.
 Magnuson, Henry O., Chicago, Ill. Riddle. No. 1,415,598; May 9.
 Magnuson, Mathias, Chicago, Ill. Necktie holder. No. 1,429,086; Sept. 12.

Alphabetical list of patentees—Continued.

- Magnusson, Carl F., Minneapolis, Minn. Adjustable window curtain and shade holder. No. 1,425,996; Aug. 15.
- Magovern, Barnard, Peterboro, N. H. Collapsible bucket. No. 1,439,180; Dec. 19.
- Magrady, Joseph J., Chicago, Ill. Automatic latch for scale beams. No. 1,423,772; July 25.
- Magrady, Joseph J., Chicago, Ill. Scale-beam poise. No. 1,428,551; Sept. 12.
- Magrady, Joseph J., Chicago, Ill. Deck or platform for wagon scales. No. 1,431,969; Oct. 17.
- Magrady, Joseph J., Chicago, Ill. Bearing support for scale-pit levers. No. 1,436,769; Nov. 28.
- Magrath, Henry J., London, England. Treatment of water for softening, sterilizing, and like purposes. No. 1,423,132; July 18.
- Maguire, Herbert R., Atherton, Queensland, Australia. Privy. No. 1,425,881; Aug. 15.
- Maguire, Hugh F., New York, N. Y. Lock for induction coils. No. 1,405,305; Jan. 31.
- Maguire, Joseph A., Gettysburg, Pa. Antiskidding device. No. 1,419,680; June 18.
- Maguire, Margaret, London, England. Book carrier. No. 1,411,175; Mar. 28.
- Maguire, Patrick J., Detroit, Mich. Method and means for dispensing carbonated beverages. No. 1,415,185; May 9.
- Maguire, Walter J., Portland, Oreg. Addressing machine. No. 1,403,336; Jan. 10.
- Maguire, William, and A. Bausch, Brooklyn, N. Y. Flexible bracelet. No. 1,405,258; Jan. 31.
- Magune, Wilbur C. (See Crocker, J. M., and Magune.)
- Maha, Irvin J., Sleepy Eye, Minn. Mainspring-winding mechanism for motor starters. No. 1,420,120; June 20.
- Mahan, James C., Lincoln, Nebr. Wrench. No. 1,408,622; Mar. 7.
- Mahannah, Everett A. (See Smith, M. O., and Mahannah.)
- Mahar, George M., and P. M. M. Phelps, Fair Haven, Vt. Coffin. No. 1,422,726; July 11.
- Maher, John, Vallejo, Calif. Lumber sling. No. 1,405,052; Jan. 31.
- Maher, Peter L., assignor to The Damascus Brake Beam Company, Cleveland, Ohio. Reversible fulcrum for trussed brake beams. No. 1,439,906; Dec. 26.
- Maher, Thomas, Mount Clemens, Mich. Game board. No. 1,416,107; May 16.
- Mahler, William H., Newark, N. J. Deriving hydrazobenzol and its homologues. No. 1,405,732; Feb. 7.
- Mahler, William H., Newark, N. J. Chemical apparatus. No. 1,405,733; Feb. 7.
- Mahon, John R., New York, N. Y. Protractor. No. 1,414,033; Apr. 25.
- Mahon, Thomas C., and J. P. Burnes, North Vancouver, British Columbia, Canada. Internal-combustion rotary engine. No. 1,427,692; Aug. 29.
- Mahoney, Clarence, assignor to G. I. Sellers and Sons Company, Elwood, Ind. Kitchen cabinet. No. 1,417,401; May 23.
- Mahoney, Daniel P., Cambridge, Mass. Coal chute. No. 1,432,074; Oct. 17.
- Mahoney, John J., Medford, Mass. Locks for automobiles. No. 1,438,656; Dec. 12.
- Mahoney, John W., Waterbury, Conn. Fireplace andirons and screen. No. 1,416,369; May 16.
- Mahoney, Joseph N., Wilkingsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupter. No. 1,431,970; Oct. 17.
- Mahoney, Patrick H., Chicago, Ill. Gasket for handhole plates for water-tube boilers. No. 1,424,930; Aug. 8.
- Mahoney, Richard M. (See Bater, M. R., Svendsen, Trump, and Mahoney.)
- Mahoney, Thomas, Highland Park, Mich. Tacking strip for upholstery. No. 1,411,973; Apr. 4.
- Mahoney, William J., St. Paul, Minn. Wire-link fabric. No. 1,406,406; Feb. 14.
- Mahr, Julius A., Minneapolis, Minn. Folding baby carriage. No. 1,432,114; Oct. 17.
- Mai, Alfred, Munich, Germany. Forming a rust-resistant coating on metal. No. 1,440,092; Dec. 26.
- Maiden, Albert, Coquille, Oreg. Snap hook. No. 1,411,857; Apr. 4.
- Maier, Clarence H., New York, N. Y. Roulettaphone. No. 1,431,170; Oct. 10.
- Maier, Clarence H., New York, N. Y. Phonograph game. No. 1,437,472; Dec. 5.
- Maier, Ernst, Vienna, Austria. Manufacture of bodies of reinforced concrete. No. 1,434,959; Nov. 7.
- Maier, Frank X., Sterling, Ill. Spring hinge. No. 1,417,084; May 23.
- Maier, Frederick G. (See Norwood, H. E., and Maier.)
- Maier, Friedrich, Elizabeth, N. J. Eye-washing device. No. 1,437,435; Dec. 5.
- Maier, George E., Los Angeles, Calif. Charging valve for air-brake equipment. No. 1,406,466; Feb. 14.
- Maier, Karl, assignor to Union-Special Maschinenfabrik Gesellschaft mit beschränkter Haftung, Stuttgart, Germany. Chain-stitch machine. No. 1,419,462; June 13.
- Maier, Oscar, et al. (See Streibel, Ludwig, assignor.)
- Maier, Wilhelm, Schwenningen, Germany. Alarm clock. No. 1,410,409; Mar. 21.
- Maers, John, Philadelphia, Pa. Dustless ash sifter. No. 1,417,849; May 30.
- Mailhot, Alexander, Thorold, Ontario, Canada. Vehicle wheel. No. 1,423,574; July 25.
- Mailing, Mandoline. (See Mackovitch, Joseph F., assignor.)
- Mailleue, Laura E., Vancouver, British Columbia, Canada. Surgical bust substitute. No. 1,417,930; May 30.
- Mailoux, Joseph C. (See Moreau, Ovide D., assignor.)
- Maimin, Hyman, New York, N. Y. Fabric-cutting machine. (Reissue.) No. 15,344; Apr. 25.
- Maimin, Hyman, New York, N. Y. Motor drive for sewing machines. No. 1,422,218; July 11.
- Maimin, Hyman, New York, N. Y. Motor drive for sewing machines. No. 1,435,934; Nov. 21.
- Main, John H., Detroit, Mich. Grease cup. No. 1,419,282; June 13.
- Main, Walter C., Lakewood, Ohio. Treatment of cast-iron particles and articles made therefrom. No. 1,439,907; Dec. 26.
- Maine, Roy D., Cheyenne, Wyo. Potato slicer and shredder. No. 1,416,853; May 23.
- Mainka, Arthur, Seemuhl, near Enckfer, Germany. Brace. No. 1,408,216; Feb. 28.
- Mainland, Charles L., Hollis, Long Island, N. Y. Valve-lifter guide. No. 1,409,878; Mar. 14.
- Mainzinger, Harry O., Detroit, Mich. Driver's footrest for tractors. No. 1,404,454; Jan. 24.
- Maise, Herman C., Springfield, Mass., assignor, by mesne assignments, to Edward G. Budd Manufacturing Company. Automobile body. No. 1,409,962; Mar. 21.
- Maisenhalder, Frederick J. G., Baltimore, Md., assignor to Maryland Metal Building Company, Inc. Sheet-metal building. No. 1,427,007; Aug. 22.
- Maisons, Gustave des Trois, Montreal, Quebec, Canada. Hay and straw tag. No. 1,419,161; June 13.
- Maitland, Harold T., Marcus Hook, assignor to Sun Company, Philadelphia, Pa. Treating hydrocarbon oils. No. 1,425,882; Aug. 15.
- Maitland, Harold T., Marcus Hook, assignor to Sun Company, Philadelphia, Pa. Treating hydrocarbon oils. No. 1,425,883; Aug. 15.
- Maitland, Harold T., Marcus Hook, assignor to Sun Company, Philadelphia, Pa. Mineral-oil derivative. No. 1,425,884; Aug. 15.
- Maitland, Harold T., Sharon Hill, assignor to Sun Company, Philadelphia, Pa. Mineral-oil derivative. No. 1,425,885; Aug. 15.
- Maiwurm, Paul, Mansfield, Ohio. Public amusement device. No. 1,409,227; Mar. 14.
- Maiwurm, Paul, Mansfield, Ohio. Drinking-cup dispenser. No. 1,425,886; Aug. 15.
- Majcher, Marcin, Glenella, Manitoba, Canada. Railway gate. No. 1,437,532; Dec. 5.
- Majempsey, John, Kansas City, Kans. Timer cover. No. 1,425,403; Aug. 8.
- Majestic Electric Development Company. (See Shoenberg, Milton H., assignor.)
- Majestic Electric Development Company. (See Strunk, Harry E., assignor.)
- Majik Electric Appliance Company. (See Coleman, George B., assignor.)
- Major, Albert, Shenandoah, Pa. Electric signaling system for mines. No. 1,405,853; Feb. 7.
- Major, Alfred J., et al., receivers. (See Laussucq, Henri P. L., assignor.)
- Major, Frank, Earlington, Wash. Vehicle signal. No. 1,437,533; Dec. 5.
- Major, John L., Sculcoates, Hull, England. Distillation or evaporation of liquids. No. 1,415,667; May 9.
- Major, Malcolm G., Washington, D. C. Letter sheet. No. 1,428,503; Sept. 5.
- Majors, Walter L., St. Louis, Mo. Antiskid device. No. 1,422,285; July 11.
- Majors, Walter L., St. Louis, Mo. Mimeograph attachment. No. 1,422,286; July 11.
- Majot, Emile, Barnesville, Ohio. Gas and air mixer for glass furnaces. No. 1,438,842; Dec. 12.
- Makay, John. (See Bagi, Louis, assignor.)
- MaKenney, Roy C., St. John, New Brunswick, Canada. Propeller. No. 1,427,307; Aug. 29.
- Maki, John, Virginia, Minn. Refrigerator. No. 1,438,450; Dec. 12.
- Makinster, Fernando W., Tillamook, Oreg. Match scratcher. No. 1,433,393; Oct. 24.
- Makowski, Peter, Chicago, Ill. Washing machine. No. 1,436,718; Nov. 28.
- Malacos, Peter, Connellsville, Pa. Cigarette-display cabinet. No. 1,435,935; Nov. 21.
- Malarkey, James A., Portland, Oreg. Combined kitchen and ironing table. No. 1,424,418; Aug. 1.
- Malarkey, James A., Portland, Oreg. Knockdown folding table. No. 1,424,419; Aug. 1.
- Malasky, Israel, Johnstown, Pa. Rug-display device. No. 1,428,490; Sept. 5.
- Malby, Seth G., U. S. Army, assignor to Secretary of War, U. S. Army, trustee. Impact fuse. No. 1,424,112; July 25.
- Malcamp, Philip, New Orleans, La. Automatic alarm mechanism for pasteurizing milk. No. 1,421,517; July 4.
- Malcolmson Engineering and Machine Corporation. (See Komarek, Gustav, assignor.)

Alphabetical list of patentees—Continued.

- Malcolmson, William J., Cicero, and H. Blount, Oak Park, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Assembling device for vacuum tubes. No. 1,403,800; Jan. 17.
- Male, Harold L., Brooklyn, N. Y. Holder for steel wool. No. 1,417,619; May 30.
- Malebranche, Paul B. (See Gill, Charles H., assignor.)
- Malec, Anthony. (See DeLemon, M., and Malec.)
- Malec, Frank A., Pawtucket, R. I. Sash frame. No. 1,432,565; Oct. 17.
- Malec, Frank A., Pawtucket, assignor of one-half to W. Kochan, Central Falls, R. I. Bicycle. No. 1,427,402; Aug. 29.
- Malekow, Philip, assignor to Baker Food Products Company, Chicago, Ill. Treating cheese. No. 1,428,602; Sept. 12.
- Malerslein, Harry J., Los Angeles, Calif. Mattress. No. 1,421,274; June 27.
- Malin, Lewis P., Long Beach, Calif. Wood-bending machine. No. 1,430,244; Sept. 26.
- Malinowsky, Louis B., and C. W. Kirk, Patterson, Calif. Chimney thimble. No. 1,414,367; May 2.
- Malitch, Charles, Hamilton, Ohio. Rail chair. No. 1,411,738; Apr. 4.
- Malitch, Charles, Hamilton, Ohio. Rail chair. No. 1,423,534; July 25.
- Malivert, Jules B., assignor to The Societe Anonyme des Appareils J. E. Malivert, Paris, France. Pressure indicator provided with a signal disk. No. 1,412,698; Apr. 11.
- Mallard, Henry, et al. (See Mallard, H., and White, assignors.)
- Mallard, Henry, and H. C. White, Stockton, assignors of one-fourth to said H. Mallard, one-fourth to F. A. Guernsey, and one-half to E. S. Munford, J. L. Craig, and W. S. Clark, Stockton, Calif. Self-starter. No. 1,420,121; June 20.
- Mallard, John T., Raleigh, N. C. Safety fastener for sliding doors. No. 1,403,178; Jan. 10.
- Malleable Iron Fittings Company, The. (See Pickop, George B., assignor.)
- Mallinar, Joseph, Point Marion, Pa. Spark plug. No. 1,420,565; June 20.
- Mallin, Edward J., Cleveland, Ohio. Disappearing traffic barrier. No. 1,439,318; Dec. 19.
- Mallinson, Sarah H., Rochester, N. Y. Animal blanket. No. 1,437,255; Nov. 28.
- Mallon, Aloysius P., San Francisco, Calif. Steel tire. No. 1,426,585; Aug. 22.
- Mallon, James H., Atlantic City, N. J. Apparatus for the manufacture and display of beverages. No. 1,420,433; June 20.
- Mallon, Vincent, New York, N. Y., assignor to Dental Manikin Head Co., Inc. Porcelain tooth for crown, bridge, and plate work. No. 1,425,601; Aug. 15.
- Mallon, Vincent, New York, N. Y., assignor to Dental Manikin Head Co. Inc. Artificial tooth. No. 1,426,661; Aug. 22.
- Mallon, Vincent, New York, N. Y., assignor to Dental Manikin Head Co. Inc. Dental manikin-head bench rest. No. 1,426,662; Aug. 22.
- Mallory, Bonnie L., Cleveland, Ohio. Nut bowl and cracker. No. 1,429,444; Sept. 19.
- Mallory, Harry C., Bellport, N. Y. Cooling system for internal-combustion engines. No. 1,424,664; Aug. 1.
- Mallory, William D., Memphis, Tenn. Method of and apparatus for sampling cotton. No. 1,429,899; Sept. 19.
- Malloy, Charles L., Coaldale, Pa. Sadiorn light. No. 1,421,973; July 4.
- Malloy, James T. Lowell, assignor of one-half to J. J. Henderson, Dracut, and one-half to S. R. Haines, Brookline, Mass. Bobbin stripper for automatic looms. No. 1,423,670; July 25.
- Malloy, Richard J., Long Island City, and W. F. Beatty, Laurel Hill, N. Y. Musical toy. No. 1,437,604; Dec. 5.
- Mallu, Robert, assignor to Mallu Sheet Metal Works, New Orleans, La. Steel barrel. No. 1,432,075; Oct. 17.
- Mallu Sheet Metal Works. (See Mallu, Robert, assignor.)
- Malluk, Assad M. (See Korée, J. U., and Malluk.)
- Malm, Axel C. V., Landsdowne, Pa., assignor to American Engineering Corporation, New York, N. Y. Coating fountain and the like. No. 1,417,931; May 30.
- Malmberg, Anders M., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone trunking system. (Reissue.) No. 15,471; Oct. 17.
- Malmed, Abraham T., Upper Darby Township, Delaware County, Pa. Regulating composition for cementitious materials. No. 1,436,276; Nov. 21.
- Malo, Theodore J., Montreal, Quebec, Canada. Pipe cover. No. 1,408,529; Mar. 7.
- Maloesay, Francis X., assignor to International Banding Machine Company, New York, N. Y. Cigar-packing device. No. 1,403,046; Jan. 10.
- Maloesay, Francis X., assignor to International Banding Machine Company, New York, N. Y. Cigar-packing device. No. 1,403,047; Jan. 10.
- Malone, Aubrey R., Franklin, Ky. Convertible tone arm. No. 1,430,395; Sept. 26.
- Malone, Lester J., assignor to Eastman Kodak Company, Rochester, N. Y. Composition and film containing mixtures of cellulose esters and ethers. No. 1,429,153; Sept. 12.
- Malone, William V., Joplin, Mo. Gas heating burner. No. 1,440,227; Dec. 26.
- Maloney, Edward J., Long Island City, assignor to A. Wolf, New York, N. Y. Presser-foot attachment for sewing machines. No. 1,421,797; July 4.
- Maloney, Frank H., Bridgeport, Conn., assignor, by mesne assignments, to Remington Arms Company, Inc., New York, N. Y. Method of and means for making tubular articles. No. 1,413,284; Apr. 18.
- Maloney, Henry P., assignor of one-half to H. Harris, St. Louis, Mo. Manifold lock for internal-combustion engines. No. 1,426,308; Aug. 15.
- Maloney, Peter J., Worcester, Mass. Washing machine. No. 1,434,554; Nov. 7.
- Maloney, William, Ottawa, Ontario, Canada. Light railway. No. 1,431,536; Oct. 10.
- Maloney, William J., Ansonia, Conn. Narrow-fabric-loom shuttle. No. 1,411,639; Apr. 4.
- Malott, Benjamin F., Greenville, S. C. Swing. No. 1,418,192; May 30.
- Malouf, Abraham, Salt Lake City, Utah. Drinking fountain for poultry. No. 1,439,251; Dec. 19.
- Maloy, Richard E., Brooklyn, N. Y. Apparatus for applying grommets. No. 1,440,308; Dec. 26.
- Malsack, Jacob T., Hartford, assignor of one-half to A. W. Ruehl, Beaver Dam, Wis. Muffler. No. 1,403,614; Jan. 17.
- Malt, Charley, Irwin, Pa. Mine-car wheel. No. 1,417,085; May 23.
- Maltby, Arthur T., Chicago, Ill. Resilient wheel for vehicles. No. 1,415,888; May 16.
- Maltby, Frank D., Battle Creek, Mich. Priming and decarbonizing device for internal-combustion engines. No. 1,422,998; July 18.
- Maltby, Julius, assignor to Waterbury Buckle Co., Waterbury, Conn. Garment-fastener button. No. 1,418,819; June 6.
- Malvica, Giuseppe, Pittsburgh, Pa. Attachment for stringed instruments. No. 1,404,131; Jan. 17.
- Malvick, Peter A., Columbus, Ohio. Hair-cutting machine. No. 1,430,173; Sept. 26.
- Malzi, Jacob E., Middletown, Pa. Attachment for riveting hammers. No. 1,410,696; Mar. 28.
- Malzoff, Hans. (See Romeiser, W., and Schiff, assignors.)
- Mammen, Lawrence W., Chicago, Ill. Driving mechanism for washing machines. No. 1,414,430; May 2.
- Mamock, Paul O., Raspeburg, Md. Piston-ring expander and remover. No. 1,440,228; Dec. 26.
- Mamouliah, Mesrob S., New York, N. Y. Amusement device. No. 1,436,625; Nov. 21.
- Mancha Storage Battery Locomotive Company. (See Goodwin, C. B., and Thorndom, assignors.)
- Manchester, Frank E., Fall River, Mass. Drawer slide. No. 1,412,699; Apr. 11.
- Manchester, Henry C., Scranton, Pa. Railway-car wall construction. No. 1,410,697; Mar. 28.
- Manchester, Seward H., Winsted, Conn. Vehicle wheel. No. 1,419,975; June 20.
- Mandel, Jacob, New York, N. Y. Traffic mirror. No. 1,428,443; Sept. 5.
- Mandel, William, Minneapolis, Minn. Storm-sash fastener. No. 1,421,798; July 4.
- Mandell, Ambrose J., assignor to Electrical Alloy Company, Morristown, N. J. Metallic alloy. No. 1,403,553; Jan. 17.
- Mander, Joseph D. (See Binns, William, assignor.)
- Mandeville, Irving, Newark, N. J. Lorgnette. No. 1,415,599; May 9.
- Mandeville, Paul, Chicago, Ill. Refrigerator building. No. 1,413,230; Apr. 18.
- Mandt, Obert G., Keokuk, Iowa. Dumping wagon and the like. No. 1,411,794; Apr. 4.
- Mandvill, Arthur P., Olympia, Wash. Oyster-opening machine. No. 1,439,181; Dec. 19.
- Manelis, Abraham, Chicago, Ill. Hot and cold water mixer. No. 1,408,375; Feb. 28.
- Manery, Herbert W., Ray, Minn. Self-adjustable strainer. No. 1,402,170; Jan. 3.
- Manes, Harry, New York, N. Y. Toy. No. 1,404,132; Jan. 17.
- Maness, Arthur R., St. Louis, Mo. Nutcracker. No. 1,417,272; May 25.
- Maney, Thomas, Louisville, Ky. Curve guardrail fixture for railway tracks. No. 1,418,950; June 6.
- Manges, D. G., & Company. (See Manges, Duff G., assignor.)
- Manges, Duff G., Tellico Plains, Tenn., assignor to Lidgerwood Manufacturing Company, New York, N. Y. Logging device. No. 1,411,053; Mar. 28.
- Manges, Duff G., Maryville, assignor to D. G. Manges & Company, Vose, Tenn. Sheave block. No. 1,424,503; Aug. 1.
- Mangiaracina, Joseph. (See Lipse, A., and Mangiaracina.)
- Mangold, Charles N., Pittsburgh, Pa. Piano. No. 1,417,191; May 23.
- Mangold, Frederick W. (See McDonald, Robert, assignor.)
- Manhart, Anton, Vienna, Austria. Alloys of aluminium and producing the same. No. 1,422,591; July 11.
- Manhart, Arthur, Elizabethtown, Ill. Saw set. No. 1,420,489; June 20.
- Manhattan Briar Pipe Company. (See Connell, Joseph P., assignor.)
- Manhattan Electrical Supply Company. (See Avery, Charles E., assignor.)

Alphabetical list of patentees—Continued.

- Manhattan Electrical Supply Company. (See Schwartz, Edward, assignor.)
- Manhattan-Rome Company. (See Sisbower, G. F., and Pittoni, assignors.)
- Manhattan-Rome Company, branch of Rome Metallic Bedstead Co. (See Pittoni, Angelo, assignor.)
- Manheimer, Abraham. (See Kintzele, J. H., Manheimer, and Etter.)
- Manheimer, Abraham, F. M. Etter, and J. H. Kintzele, St. Louis, Mo. Washer-placing machine for rubber-heel molds. No. 1,424,931; Aug. 8.
- Manhire, William J., assignor to Combustion Specialty Company, Kansas City, Mo. Automatic regulator for boiler furnaces. No. 1,415,940; May 16.
- Manicke, Albert P. O., Easton, Pa. Turbine-blade fastener. No. 1,412,364; Apr. 11.
- Manifold Impressions Corporation. (See Cossitt, Malcolm L., assignor.)
- Manifold Impressions Corporation. (See Sinclair, William H., assignor.)
- Manila Sterilizing Corporation. (See Diner, Jacob, assignor.)
- Manitowoc Plating Works. (See Wachowitz, Walter J., assignor.)
- Manitowoc Ship Building Corporation. (See West, Charles C., assignor.)
- Manley, Charles E., et al. (See Stephens, Richard M., assignor.)
- Manley, Fred B., Baltimore, Md., assignor, by mesne assignments, to Textiles Development Corporation, New York, N. Y. Fabric. No. 1,433,467; Oct. 24.
- Manley, Frederick T., Houston, Tex., assignor to The Texas Company, New York, N. Y. Apparatus for cracking hydrocarbon oils. No. 1,428,338; Sept. 5.
- Manley, Frederick T., Houston, Tex., assignor to The Texas Company, New York, N. Y. Cracking hydrocarbon oils. No. 1,428,339; Sept. 5.
- Manley, Henry E., Olean, N. Y., assignor to Manley and Barlow, Corry, Pa. Register. No. 1,409,879; Mar. 14.
- Manley Manufacturing Company, The. (See Manley, Robert E., assignor.)
- Manley, Robert E., York, Pa. Press. No. 1,437,943; Dec. 5.
- Manley, Robert E., assignor to The Manley Manufacturing Company, York, Pa. Portable floor crane. No. 1,422,459; July 11.
- Manley, William S., Sedalia, Mo. Paint-removing device. No. 1,408,623; Mar. 7.
- Manley and Barlow. (See Manley, Henry E., assignor.)
- Manly, Ernest P., Portsmouth, Va. Circle rule. No. 1,402,629; Jan. 3.
- Mann, Aaron L., Grand Rapids, Mich. Lifting jack. No. 1,404,455; Jan. 24.
- Mann, Alexander R., Montreal, Quebec, Canada. Metal box. No. 1,417,932; May 30.
- Mann Corporation. (See Yeomans, Lucien I., assignor.)
- Mann, Edward J., Rock Township, Woodbury County, Iowa. Harrow. No. 1,430,311; Sept. 26.
- Mann, Emma I. (See Mann, Orville C., assignor.)
- Mann, Frank J., Columbia Station, Ohio. Agricultural machine. No. 1,403,801; Jan. 17.
- Mann, George S. (See Higgins, W. E., and Mann.)
- Mann, Harold C., London, assignor of one-half to The Chemical Engineering and Wilton's Patent Furnace Company Limited, Hendon, London, England. Liquid-fuel burner. No. 1,410,942; Mar. 28.
- Mann, James E., assignor to Parker Brothers, Inc., Salem, Mass. Game. No. 1,411,574; Apr. 4.
- Mann, James H., Jr., assignor to Transit Vending Machine Company, Pine Bluff, Ark. Coin-controlled vending machine. No. 1,408,112; Feb. 28.
- Mann, Leon. (See Koppelman, M., and Cooper, assignors.)
- Mann, Leon, New York, and M. Koppelman, Brooklyn, N. Y. Egg packing. No. 1,413,047; Apr. 18.
- Mann, Matthew D., Jr., Roselle, assignor to Standard Oil Company, Bayonne, N. J. Purifying alcoholic liquid. No. 1,413,864; Apr. 25.
- Mann, Milton J., Bangor, Pa. Can opener. No. 1,411,858; Apr. 4.
- Mann, Orville C., assignor to E. I. Mann, Oak Park, Ill. Crust-breaker attachment for railway spreaders. No. 1,404,875; Jan. 31.
- Mann, William K., Arkansas City, Kans. Spinning top and support therefor. No. 1,411,974; Apr. 4.
- Manners, Charles E., Glenville Glen Crafters, South Australia, Australia. Spring. No. 1,405,606; Feb. 7.
- Mannhardt, Daniel W., Washington, Iowa. Valve cap. No. 1,430,092; Sept. 26.
- Manning, Bowman & Company. (See Warner, Maurice L., assignor.)
- Manning, Christina V., St. Louis, Mo. Wall protector. No. 1,434,903; Nov. 7.
- Manning, Clyde W., Birmingham, Ala. Holder frame for interchangeable signs. No. 1,432,480; Oct. 17.
- Manning, George W., Chicago, Ill. Broom. No. 1,409,560; Mar. 14.
- Manning, Harry W., Portland, Oreg. Oil-burning apparatus. No. 1,409,880; Mar. 14.
- Manning, James G. (See McCaffrey, A. L., and Manning.)
- Manning, James J. (See Jorgensen, Hans F., assignor.)
- Manning, Joseph M. (See Smith, J. T., Wilkins, and Manning.)
- Manning, Maxwell & Moore, Inc. (See Madison, George E., assignor.)
- Manning, Stephen W., Altoona, Pa. Burial casket. No. 1,431,827; Oct. 10.
- Manning, Thomas A., and A. A. Engel, Milwaukee, Wis. Belt-retaining attachment for trousers. No. 1,436,277; Nov. 21.
- Manning, William P., Los Angeles, Calif. Legging. No. 1,424,207; Aug. 1.
- Mannion, John. (See Mannion, M., and Arthur, assignors.)
- Mannion, Martin, Perth Amboy, N. J., and R. C. Arthur, Tottenville, N. Y., assignors of one-third to J. Mannion, Perth Amboy, N. J. Adjustable plug for cleaning condenser tubes. No. 1,415,600; May 9.
- Manny, Fred L., and W. H. Key, Benton Harbor, Mich. Compression pump. No. 1,417,677; May 30.
- Mansbendel, Fritz P., Brooklyn, N. Y., assignor, by mesne assignments, to M. V. O'Leary, Montreal, Canada. Motor device. No. 1,433,562; Oct. 31.
- Manseau, Fred J. (See Meyer, J., and Manseau.)
- Mansel, Paul, Charlottenburg, near Berlin, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Electric clock. No. 1,417,620; May 30.
- Mansel, Paul, Siemensstadt, near Berlin, assignor to Siemens & Halske A. G., Berlin, Germany. Clock. No. 1,422,590; July 11.
- Mansell, Henry J., Oakland, and C. D. Fry, Alameda, Calif. Change-speed-gear mechanism. No. 1,421,799; July 4.
- Mansell-Phayre, John, West Cowes, Isle of Wight, England. Stand for displaying goods for sale or inspection. No. 1,412,126; Apr. 11.
- Mansfield, Edwin E., King City, Calif. Self-aligning piston and connecting rod bearing. No. 1,434,904; Nov. 7.
- Mansfield, Frank P., Milwaukee, Wis. Gate for grade crossings. No. 1,404,988; Jan. 31.
- Mansfield, Henry. (See Ohaver, David W., assignor.)
- Mansfield Lamp and Manufacturing Company, The. (See Wood, Arthur C., assignor.)
- Manson, George J., Toronto, Ontario, Canada. Cleaning fiber-press dies. No. 1,413,178; Apr. 18.
- Manson, George J., Toronto, Ontario, Canada. Retractor and sprinkler for fiber-press dies. No. 1,413,179; Apr. 18.
- Manson, Leon B., Brooklyn, N. Y., assignor to Franco Electric Corporation. Lighting set. No. 1,427,489; Aug. 29.
- Manson, Ray H., assignor to The General Phonograph Manufacturing Company, Elyria, Ohio. Phonograph. No. 1,419,938; June 20.
- Manson, Ray H., assignor to The Stromberg Carlson Telephone Manufacturing Company, Rochester, N. Y. Impulse transmitter. No. 1,425,123; Aug. 8.
- Manson, Ray H., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Hook-switch mechanism. No. 1,427,160; Aug. 29.
- Manson, Ray H., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Clamp. No. 1,432,711; Oct. 17.
- Manson, William C., et al. (See Morse, Robert B., assignor.)
- Mansure, Nellie F., Chicago, Ill. Telephone-receiver support. No. 1,418,820; June 6.
- Mantanel, August, assignor to Chicago Cabinet Lock Co., Chicago, Ill. Lock. No. 1,406,573; Feb. 14.
- Mantanel, August, assignor to Chicago Cabinet Lock Co., Chicago, Ill. Cylinder lock. No. 1,406,574; Feb. 14.
- Mantel, Auguste, Taylorville, Ill. Artificial arm and hand. No. 1,420,122; June 20.
- Mantel, Frank A. (See Stryker, G. B., and Mantel.)
- Manter, Edwin E., Auburndale, Mass. Camera. No. 1,421,092; June 27.
- Mantle Lamp Co. of America, The. (See Blair, Lewis V., assignor.)
- Manton, Frank W. and J. N., Toronto, Ontario, Canada. Printer's galley. No. 1,436,044; Nov. 21.
- Manton-Gaulin Manufacturing Company. (See Colony, John M., assignor.)
- Manton, James N. (See Manton, Frank W. and J. N.)
- Manton, James S., Chicago, Ill. Clutch controller. No. 1,437,605; Dec. 5.
- Manu, John, Detroit, Mich. Standard for lawn sprinklers. No. 1,432,479; Oct. 17.
- Manuelli, Camillo, and L. Bernardini, Rome, Italy. Explosive and manufacture thereof. No. 1,409,963; Mar. 21.
- Manufacturers' Contracting Company. (See Feam, W. H., and Groshell, assignors.)
- Manufacturers Iron & Steel Company. (See Whitaker, Richard, Jr., assignor.)
- Manufacturing Company of America. (See Wootten, C. T., assignor.)
- Manufacturing Engineers Inc., The. (See Olsen, George O., assignor.)
- Manville, E. J., Machine Company, The. (See Gaess, Albert H., assignor.)
- Manville, E. J., Machine Company, The. (See Smith, Henry L., assignor.)
- Manwaring, Frederick G., Campgaw, N. J. Storage battery. No. 1,419,396; June 13.
- Manz, Merrill W., assignor to The Ohio Brass Company, Mansfield, Ohio. System of overhead construction. No. 1,401,998; Jan. 3.

Alphabetical list of patentees—Continued.

- Manz, Merrill W., and S. S. Matthes, assignors to The Ohio Brass Company, Mansfield, Ohio. Trolley device. No. 1,401,999; Jan. 3.
- Manzel, Charles W., Buffalo, N. Y. Cleaning implement for lubricating nipples. No. 1,420,123; June 20.
- Manzel, Charles W., Buffalo, N. Y. Lubricating gun. No. 1,424,504; Aug. 1.
- Mapelsden, Harold H., and C. F. Bullock, Schenectady, N. Y., assignors to General Electric Company. Flow tube. No. 1,419,876; June 13.
- Mapes, Charles M., Rutherford, N. J. Pipe. No. 1,407,038; Feb. 21.
- Maple, Roy H., Indianapolis, Ind. Thermal electrical cut-out. No. 1,415,253; May 9.
- Maranville, Alger G., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Valve. No. 1,426,894; Aug. 22.
- Maranville, Harvey F., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Apparatus for placing washers in rubber-heel molds. No. 1,429,359; Sept. 19.
- Maras, Hynek, Woodside, assignor to Renner & Maras, Long Island City, N. Y. Coupling for portable electric lamps. No. 1,412,127; Apr. 11.
- Marathon Electric Mfg. Co. (See Kimble, Austin, assignor.)
- Marathon Tire & Rubber Company, The. (See Terr, Joseph, assignor.)
- Marbel, Myer M., Chicago, Ill. Blood-cell calculator. No. 1,418,384; June 6.
- Marcelino y Diaz, Joaquin, Habana, Cuba. Mounting for portraits and photographs. No. 1,414,656; May 2.
- March, William F., Philadelphia, Pa. Brake adjuster for automobiles, trucks, and the like. No. 1,427,113; Aug. 29.
- Marcha, Ernest F. (See Dodge, Howard M., assignor.)
- Marcha, Ernest F. (See Little, D. A., and Marcha.)
- Marchalonis, Mike, Mahoney City, Pa. Antivapor device for windows. No. 1,403,335; Jan. 10.
- Marchand, Edward J., Duluth, Minn. Fly exterminator. No. 1,422,287; July 11.
- Marchand, Robert, Amsterdam, Netherlands. Preparation of terpineol. No. 1,408,462; Mar. 7.
- Marchand, Robert, Amsterdam, Netherlands. Preparing hydrate of terpin. No. 1,411,859; Apr. 4.
- Marcher, Royal, assignor to Cohn & Rosenberger, Inc., New York, N. Y. Combined mirror and vanity case. No. 1,416,223; May 16.
- Marchini, George A., et al. (See Shugart, Frederick R., assignor.)
- Marchus, Amos S., Oakland, Calif. Pressure gauge. No. 1,430,174; Sept. 26.
- Marciandi, Francesco, Rho, Italy. Rotary digging machine. No. 1,433,961; Oct. 31.
- Markworth, Otto S., Columbus, Ohio. Producing non-shatterable glass. No. 1,421,974; July 4.
- Marcotte, Arthur D., Memphis, Tenn. Burglar alarm. No. 1,435,969; Nov. 21.
- Marcotte, George R., Brockton, Mass. Headlight dimmer. No. 1,434,302; Oct. 31.
- Marcotte, Samuel, Hubbell, Mich. Tamping machine. No. 1,431,537; Oct. 10.
- Marcus, Israel, Winthrop, Mass. Renewable fuse. No. 1,435,317; Nov. 14.
- Marcus, Samuel, Brooklyn, assignor to F. & M. Novelty Co., Inc., New York, N. Y. Artificial eyes for dolls and the like. No. 1,433,899; Oct. 31.
- Marcus, Samuel, Brooklyn, assignor to F. & M. Novelty Co., Inc., New York, N. Y. Eye set for dolls and the like. No. 1,433,900; Oct. 31.
- Marcus, Samuel, Brooklyn, assignor to F. & M. Novelty Co., Inc., New York, N. Y. Artificial eyes for dolls, display figures, and the like. No. 1,433,901; Oct. 31.
- Marcus, Samuel S., New York, and S. Krakauer, Brooklyn, N. Y. Spring pad. No. 1,406,051; Feb. 7.
- Marcuse, Moses M., assignor to West Disinfecting Company, New York, N. Y. Dispensing cabinet. No. 1,438,320; Dec. 12.
- Marcy, Ira M., assignor of one-half to Alex N. Levine, Chattanooga, Tenn. Differential gearing for automobiles. No. 1,427,612; Aug. 29.
- Marcy, John, Detroit, Mich. Cutting cylinders. No. 1,404,989; Jan. 31.
- Marcy, Richard, Lincoln, Mass. Automatic train-stop mechanism. No. 1,402,367; Jan. 3.
- Marden, Charles W., Portsmouth, N. H. Train-stopping device. No. 1,416,108; May 16.
- Marden, John W., Swissvale, Pa., assignor to Westinghouse Lamp Company. Preparation of rare metals. No. 1,437,984; Dec. 5.
- Mardick, John R., New York, assignor to Acheson Graphite Company, Niagara Falls, N. Y. Explosive. No. 1,415,889; May 16.
- Mardis, Paul L. (See Rose, E. E., and Mardis.)
- Mardis, Paul L., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,414,431; May 2.
- Mardonez, Rafael J., and P. Hansen, Seattle, Wash. Phonograph. No. 1,404,870; Jan. 31.
- Margeson, Everett A., and C. D. Herrold, assignors to Gertrude A. Margeson, San Jose, Calif. Automatic multiple-switch-controlling machine. No. 1,409,561; Mar. 14.
- Margeson, Gertrude. (See Margeson, E. A., and Herrold, assignors.)
- Margetts, Walter T., New York, N. Y., assignor to H. G. Jennison, Toledo, Ohio. Pavement. No. 1,402,942; Jan. 10.
- Margolis, Louis, assignor to Fifth Avenue Corset Company, Allentown, Pa. Corset-measuring frame. No. 1,439,831; Dec. 26.
- Margulies, Harry, New York, N. Y. Gas cock. No. 1,420,434; June 20.
- Marian, John, Hartford, Conn. Automatic feed for punch presses. No. 1,407,699; Feb. 28.
- Marien, Charles A. (See Kloepper, Valentine C., assignor.)
- Marien, Charles A., St. Louis, Mo. Vehicle wheel. No. 1,424,314; Aug. 1.
- Marietta Paint & Color Company, The. (See Murray, Alexander, assignor.)
- Mariner, Joseph A., New York, N. Y. Hair-undulating device. No. 1,403,512; Jan. 17.
- Marino, Quintin, London, England. Plating electrolyte and making same. No. 1,404,156; Jan. 17.
- Marion, Frank, Hardwick, Vt., assignor of one-half to P. R. Hatton, Lebanon, N. H., one-sixteenth to B. E. Chenard, Chelsea, Mass., one-sixteenth to R. E. Paichaud, Lebanon, one-fourth to L. E. Winn and E. T. Wolloff, Nashua, N. H., and J. H. Wylie, Glover, Vt. Rotary pump. No. 1,434,716; Nov. 7.
- Marino, Vincenzo. (See Piduto, C., and Marino.)
- Marion, Frank, assignor to Marion Rotary Motors Company, Inc., Hardwick, Vt. Rotary-pump casing and abutment construction. No. 1,409,054; Mar. 7.
- Marion Machine Foundry and Supply Company, The. (See Smith, Edwin B., assignor.)
- Marion Rotary Motors Company. (See Marion, Frank, assignor.)
- Marion Steam Shovel Co., The. (See King, George W. and C. S., Jacoby, Roush, and Holmes, assignors.)
- Maris, Claude A., Terre Haute, Ind. Adjustable thrust bearing. No. 1,421,518; July 4.
- Maritzen, Carl L., San Francisco, Calif. Battery-testing lamp. No. 1,415,254; May 9.
- Mark, Frank H., and H. J. McConochy, assignors, by mesne assignments, to The Hot Prong Carburizer Company, Portland, Ind. Electric fuel vaporizer. No. 1,432,712; Oct. 17.
- Mark, Henry J., St. Louis, Mo. Plastering lath. No. 1,408,217; Feb. 28.
- Mark, Isaac N., Burlington, Kans. Truck dump. No. 1,410,943; Mar. 28.
- Mark, Louis, and P. Bialy, Portland, Ore. Spring wheel. No. 1,407,669; Feb. 21.
- Markee, Anton H., Amery, Wis. Cooking stove. No. 1,410,024; Mar. 21.
- Markell, John W., Seattle, Wash. Hen's nest. No. 1,439,182; Dec. 19.
- Markem Machine Company. (See Putnam, Fred A., assignor.)
- Marker, Van N., Chicago, Ill. Compensating starting switch. No. 1,422,592; July 11.
- Markert, Allyn H. and G. W., Philadelphia, Pa. Holder. No. 1,436,814; Nov. 28.
- Markert, George W. (See Markert, Allyn H. and G. W.)
- Markey, Harley H., El Dorado, Ark. Drilling apparatus. No. 1,433,394; Oct. 24.
- Markgraf, Marc G., Brooklyn, N. Y. Phonograph envelope and making the same. No. 1,424,840; Aug. 8.
- Markham Air Rifle Company. (See Roe, Ernest S., assignor.)
- Markham, Charles M., Milwaukee, Wis. Lifting jack. No. 1,410,698; Mar. 28.
- Markham, Charles M., Milwaukee, Wis. Round-column-clamp tightener. No. 1,430,576; Oct. 3.
- Markisen, Allie G., Racine, Wis. Incubator tray. No. 1,432,115; Oct. 17.
- Markle, Donald, Hazleton, Pa. Forming fuel. No. 1,407,700; Feb. 28.
- Markman, Jacob C., Amsterdam, N. Y., assignor to Fulton County Machine and Supply Company, Gloversville, N. Y. Attachment for fast-warp knitting machines. No. 1,431,828; Oct. 10.
- Marko, Louis, assignor of one-fourth to S. P. Nemeth, one-fourth to M. Psotka, and one-fourth to D. A. Scheibenzuber, Dayton, Ohio. Electric-lighted vanity case. No. 1,405,532; Feb. 7.
- Marko, Paul M., Brooklyn, N. Y. Storage battery. No. 1,420,435; June 20.
- Markovich, Joseph J., Uniontown, Pa. Rail-tie chair. No. 1,405,607; Feb. 7.
- Markovich, Joseph J., Uniontown, Pa. Rail-joint chair. No. 1,420,566; June 20.
- Markovich, Toni. (See Kovach, J. W., and Markovich.)
- Markowsky, Alfred, Woodbridge, N. J. Disinfectant holder for urinals and water-closets. No. 1,411,218; Mar. 28.
- Marks, George E. and W. L., Sound Beach, Conn. Artificial foot. No. 1,420,330; June 20.
- Marks, Herbert E., Glen Osborne, Pa. Lathing. No. 1,436,453; Nov. 21.
- Marks, Isidore, Boston, Mass. Sprocket barrel. No. 1,411,926; Apr. 4.
- Marks, Marco. (See Wooldridge, John, assignor.)
- Marks, Paul J., Rochester, N. Y. Photographic shutter. No. 1,422,460; July 11.

Alphabetical list of patentees—Continued.

- Marks, Paul J., Rochester, N. Y. Iris diaphragm. No. 1,422,461; July 11.
- Marks, Paul J. and W. O., Rochester, N. Y. Photographic-view finder. No. 1,423,809; July 25.
- Marks, Walter O. (See Marks, Paul J. and W. O.)
- Marks, William C., Cleveland, Ohio, assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Ironing board. No. 1,427,963; Sept. 5.
- Marks, William L. (See Marks, George E. and W. L.)
- Marksberry, Edward Z., Ludlow, Ky., and J. J. Sanregret, Cincinnati, Ohio. Guard for machines. No. 1,402,630; Jan. 3.
- Markus, Joso, and L. Thomas, East Pittsburgh, Pa. Permutation lock. No. 1,420,723; June 27.
- Marlatt, George E., Pasadena, Calif., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,433,087; Oct. 24.
- Marler, Arthur W. (See Coley, A., and Marler.)
- Marlin Firearms Corporation, The. (See Ball, George H., assignor.)
- Marlin Firearms Corporation, The. (See Kovaleff, Michael, assignor.)
- Marlin Firearms Corporation, The. (See Swedllus, Carl G., assignor.)
- Marlin-Rockwell Corporation. (See Neal, Elmer E., assignor.)
- Marlin-Rockwell Corporation. (See Rockwell, Albert F., assignor.)
- Marlow, John H., Stoke-upon-Trent, England. Oven or kiln. No. 1,434,717; Nov. 7.
- Marlow, Richard, Ralph, Ala. Plow. No. 1,418,156; May 30.
- Marlowe, Clinton D., sr., Johnstown, Pa. Rocking toy vehicle. No. 1,414,388; May 2.
- Marmon, Albert W., assignor of one-third to G. G. Warren, and one-third to W. S. Edson, Dallas, Tex. Cotton harvester. No. 1,403,433; Jan. 10.
- Marmon, Howard C. (See Jeffers, Clarence E., assignor.)
- Marona, Charles, and B. Villiott, Youngstown, Ohio. Hook. No. 1,420,724; June 27.
- Maronde, John A., et al. (See Wagner, Leslie A., assignor.)
- Marotta, Gabriel, assignor of one-half to A. Van Aalst, Seattle, Wash. Spark plug. No. 1,415,668; May 9.
- Maroukis, James M., Newark, N. J. Water sport device. No. 1,403,434; Jan. 10.
- Marple, Arthur L., Cumberland, Md. Flying machine. No. 1,408,899; Mar. 7.
- Marquet, Eugene, Herstal, Belgium. Rotary pump. No. 1,404,625; Jan. 24.
- Marquette, Melvon A., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire mold. No. 1,419,577; June 13.
- Marquette, Melvon A., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Making tires. No. 1,419,879; June 13.
- Marquette, Melvon A., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Inner tube and making same. No. 1,428,382; Sept. 5.
- Marquette Tool & Manufacturing Company. (See Balcker, Martin, assignor.)
- Marquez, Jose S., Capulin, assignor of one-third to J. L. Rivera, La Jara, Colo. Seed-potato cutter. No. 1,417,273; May 23.
- Marquis, Sydney. (See Bartlett, W. D., and Marquis.)
- Marquiss, James E., Monticello, Ill. Conduit-forming jack. No. 1,427,964; Sept. 5.
- Marr, Alexander W., Canton, Ohio. Quick-action double-gear jack. No. 1,423,671; July 25.
- Marr, Frank S., assignor of one-half to C. J. Walker, Canton, Ill. Draft equalizer. No. 1,410,337; Mar. 21.
- Marr, George M. (See Sobel, L., and Marr.)
- Marr, George M., Brooklyn, N. Y. Sanitary cap. No. 1,425,532; Aug. 15.
- Marr, William G., Los Angeles, Calif. Salt and pepper shaker. No. 1,437,345; Nov. 28.
- Marriott, Harry H., Kansas City, Mo. Lens. No. 1,416,109; May 16.
- Marriott, Robert H., Bremerton, Wash. Radio receiving system. No. 1,407,205; Feb. 21.
- Marris, Frank M., Adel, Iowa. Kiln furnace. No. 1,407,288; Feb. 21.
- Mars, Thomas H., assignor to Federal Electric Company, Chicago, Ill. Clothes wringer. No. 1,408,819; Mar. 7.
- Mars, Thomas H., assignor to Federal Electric Company, Chicago, Ill. Gearing. No. 1,421,800; July 4.
- Marschalek, Alexander, East Rutherford, N. J. Air pump. No. 1,438,773; Dec. 12.
- Marschke, Fredrich W. (See Marschke, William A. and F. W.)
- Marschke Manufacturing Company. (See Marschke, William A. and F. W., assignors.)
- Marschke, Reinhold B., Fargo, N. Dak. Sash balance and weather strip. No. 1,411,445; Apr. 4.
- Marschke, William A. and F. W., assignors to Marschke Manufacturing Company, Indianapolis, Ind. Stator. No. 1,403,179; Jan. 10.
- Marsden, James, Wigan, England. Attachment for sewing machines. No. 1,411,860; Apr. 4.
- Marsden, John E. (See Miliken, John A., assignor.)
- Marsden, John E. (See Todd, Frederick J., assignor.)
- Marsden, William N. (See Kaufmann, F. J., and Marsden.)
- Marsh, Clarence E. (See Milton, J. V., and Marsh.)
- Marsh, Claude E., Atlanta, Ga. Portable locomotive-journal-turning machine. No. 1,417,621; May 30.
- Marsh, Clifford W., Bridgeport, Conn. Typewriting machine. No. 1,417,472; May 23.
- Marsh, Edward A., Newton, assignor to Waltham Watch Company, Waltham, Mass. Repeater timepiece. No. 1,421,801; July 4.
- Marsh, George S. (See Farmer, R. Z., and Marsh.)
- Marsh, Howard E. (See Starr, E. B., and Marsh.)
- Marsh, Jas. P., & Company. (See Harrison, Amos, assignor.)
- Marsh, Kenneth E., assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting machine. No. 1,424,841; Aug. 8.
- Marsh, Louis S., Kirkland, assignor to Boeing Airplane Company, Seattle, Wash. Airplane-wing construction. No. 1,435,409; Nov. 14.
- Marsh, Robert T., et al. (See Newcomb, Alcanzo D., assignor.)
- Marsh, Samuel J., Quesnel, British Columbia, Canada. Device for saving gold and other precious metals. No. 1,429,750; Sept. 19.
- Marsh, Samuel L., New York, N. Y. Oil purifier. No. 1,438,048; Dec. 5.
- Marsh, Warren J., Seattle, Wash. Feed-mixing machine. No. 1,419,397; June 13.
- Marsh, Wilbur W. (See Hackett, Charles H., assignor.)
- Marshall, A. H. (See Hogan, George L., assignor.)
- Marshall, Albert T., assignor to Automatic Refrigerating Company, Hartford, Conn. Safety device for gas or vapor pumps. No. 1,411,054; Mar. 28.
- Marshall, Albert T., assignor to Automatic Refrigerating Company, Hartford, Conn. Refrigerating apparatus. No. 1,425,265; Aug. 8.
- Marshall, Albert T., assignor to Automatic Refrigerating Company, Hartford, Conn. Refrigerating system. No. 1,425,266; Aug. 8.
- Marshall, Albert T., assignor to Automatic Refrigerating Company, Hartford, Conn. Refrigerating machine. No. 1,425,267; Aug. 8.
- Marshall, Albert T., assignor to The Automatic Refrigerating Company, Hartford, Conn. Refrigerating apparatus. No. 1,436,815; Nov. 28.
- Marshall, Charles P., and J. W. Bragger, Watertown, N. Y. Diffracting screen. No. 1,433,637; Oct. 31.
- Marshall, Chilton M., Oakdale, La., assignor of one-half to R. E. Powell, Elton, La. Sucker-rod elevator. No. 1,414,519; May 2.
- Marshall, Clyde R., Cedar Rapids, Iowa. Corn rack. No. 1,409,228; Mar. 14.
- Marshall, Edmund, Detroit, Mich. Hour-guide calendar. No. 1,405,793; Feb. 7.
- Marshall, Edward C., Lynn, Mass. Traffic signal. No. 1,420,124; June 20.
- Marshall, Edward J., Fremont, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Electric battery. No. 1,434,303; Oct. 31.
- Marshall Field & Company. (See Dufour, George H., assignor.)
- Marshall, Frank L., Newton Center, Mass. Tire. No. 1,425,668; Aug. 15.
- Marshall, Gordon R., Halifax, and J. A. Bruce, Truro, Nova Scotia, Canada. Towel cabinet. No. 1,410,068; Mar. 21.
- Marshall, Holmes, Cleveland Heights, Ohio. Safety deposit-box system. No. 1,437,001; Nov. 28.
- Marshall, Holmes, Cleveland, Ohio, assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y. Combined typewriting and computing machine. No. 1,403,130; Jan. 10.
- Marshall, Joseph B., assignor to Shilepsky and Marshall, Westport, Conn. Clotheshpin. No. 1,417,850; May 30.
- Marshall, Lewis C., Walpole, assignor to Pressure Proof Piston Ring Company, Boston, Mass. Piston packing. No. 1,412,251; Apr. 11.
- Marshall, Lewis C., Walpole, assignor to Pressure Proof Piston Ring Company, Boston, Mass. Piston packing. No. 1,413,922; Apr. 25.
- Marshall, Lewis C., Walpole, assignor to Pressure Proof Piston Ring Company, Boston, Mass. Piston packing. No. 1,413,923; Apr. 25.
- Marshall, Lewis C., Walpole, assignor to Pressure Proof Piston Ring Company, Boston, Mass. Piston packing. No. 1,421,802; July 4.
- Marshall, Logan W., Sidney, Ohio. Loose-leaf binder. No. 1,436,598; Nov. 21.
- Marshall, Richard C. (See Kennedy, R. O., Gillespie, and Marshall.)
- Marshall, S. M., et al. (See Humbert, Karl E., assignor.)
- Marshall, Thomas. (See Ruger, Durl P., assignor.)
- Marshall, Thomas E., Madelia, Minn. Harrow draft gear. No. 1,435,075; Nov. 7.
- Marshall, Warren W., New Britain, Conn. Adjustable tap or reamer wrench. No. 1,432,713; Oct. 17.
- Marshall, William R., Congress Junction, Ariz. Safety device for aeroplanes. No. 1,433,395; Oct. 24.
- Marsico, Gerard R., assignor to Puriton Manufacturing Corporation, Brooklyn, N. Y. Signal. No. 1,416,224; May 16.
- Marsile, Gustave, Los Angeles, Calif. Automobile direction indicator. No. 1,419,069; June 6.

- Marsland, Roland, Essington, Pa., assignor to Westinghouse Electric and Manufacturing Company. Supporting bearing. No. 1,429,606; Sept. 19.
- Marson, Clifford J. (See Doan, H. C., and Marson.)
- Marston, Howard F., Dayton, Ohio. Envelope-making machine. No. 1,407,206; Feb. 21.
- Marston, John R. (See Kuzell, C. R., and Marston.)
- Martel, Alfred, Jr., Mountain View, Calif. Aeroplane propeller. No. 1,419,877; June 13.
- Martens, Friedrich, Hamburg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Clamp or holder for writing pads or blocks. No. 1,406,992; Feb. 21.
- Marter, Frank J., et al. (See Geiger, Joseph, assignor.)
- Martin, Abel, Tonopah, Nev. Logging hook. No. 1,430,824; Oct. 3.
- Martin, Alfred V. P., Brooklyn, N. Y. Hair curler and waver. No. 1,422,593; July 11.
- Martin, Andrew, Toronto, Ontario, Canada. Collapsible camp chair and canopy therefor. No. 1,429,043; Sept. 12.
- Martin, Anita, New York, N. Y. Dress shield. No. 1,416,044; May 16.
- Martin, Bert B., Ada, Ohio. Combination sled. No. 1,404,990; Jan. 31.
- Martin, Charles H., West Springfield, and H. G. Farr, Springfield, Mass.; said Farr assignor to said Martin. Fifth-wheel construction. No. 1,412,025; Apr. 4.
- Martin, Charles H., assignor of one-half to A. K. Dellarowe and one-half to E. Hull, Los Angeles, Calif. Envelope separator for printing presses. No. 1,430,915; Oct. 3.
- Martin, Clarence R. (See Jones, D. A., and Martin.)
- Martin, Constant, East Orange, N. J. Heater. No. 1,413,539; Apr. 18.
- Martin Cushion Wheel Co. (See Martin, William C., assignor.)
- Martin, David M., Chatham, Ontario, Canada. Oil gauge. No. 1,434,393; Nov. 7.
- Martin, Edgar C., Central, S. C., assignor, by mesne assignments, to Carbic Manufacturing Company, Duluth, Minn. Blowpipe. No. 1,412,211; Apr. 11.
- Martin, Edgar D., Chicago, Ill. System of integrally-cast reinforced-concrete roof construction for buildings. No. 1,411,446; Apr. 4.
- Martin, Edgar W., et al., trustees. (See Martin, Laurence C., assignor.)
- Martin, Emile, New York, N. Y. Producing permanent waves in the hair. No. 1,440,163; Dec. 26.
- Martin, Evariste, assignor of one-half to A. Duval, Manchester, N. H. Transferring mechanism for automatic filling-replenishing loom. No. 1,417,541; May 30.
- Martin, Fernand P., Paris, France. Apparatus for delivering liquid or granular material in predetermined measured quantities. No. 1,429,154; Sept. 12.
- Martin, Frank H., Carterville, Ill. Automatic railway-switch throw and lock. No. 1,423,351; July 18.
- Martin, Frank J., Greenfield, assignor to Martin Machine Company, Inc., Turners Falls, Mass. Diestock. No. 1,419,939; June 20.
- Martin, Frederic, Columbus, Ohio. Corn-husking device. No. 1,440,164; Dec. 26.
- Martin, Frederick W., New York, N. Y. Water gauge for tanks. No. 1,408,218; Feb. 28.
- Martin, Frederick W., Manhattan Beach, N. Y., assignor to Franklin Railway Supply Company. Flexible pipe coupling. No. 1,406,671; Feb. 14.
- Martin, Frederick W., Wichita, Kans. Receptacle. No. 1,418,954; June 6.
- Martin, Friedrich, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. By-pass system for piston pumps. No. 1,416,731; May 23.
- Martin, Friedrich, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Controlling apparatus for piston pumps. No. 1,418,951; June 6.
- Martin, Friedrich, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Controlling apparatus for piston pumps. No. 1,418,952; June 6.
- Martin, Friedrich, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Controlling apparatus for piston pumps. No. 1,418,953; June 6.
- Martin, Friedrich, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Roller bearing for the cam disks of cam-disk gearings. No. 1,419,681; June 13.
- Martin, George C., Los Angeles, Calif. Irrigating valve. No. 1,414,034; Apr. 25.
- Martin, George C., Los Angeles, Calif. Concrete-pipe machine. No. 1,428,044; Sept. 5.
- Martin, George W. (See Harris, William H., assignor.)
- Martin, Glenn L. (See McCullough, Frederick S., assignor.)
- Martin, Goldie, Winchester, Ind. Inflammable composition for tableware. No. 1,429,360; Sept. 19.
- Martin, Haakon A., assignor to The National Cash Register Company, Dayton, Ohio. Ticket-printing mechanism. No. 1,404,212; Jan. 24.
- Martin, Haakon A., Christiania, Norway, assignor to The National Cash Register Company, Dayton, Ohio. Credit-account register. No. 1,423,953; July 25.
- Martin, Harold. (See Steele, L. J., Martin, and McCarthy.)
- Martin, Harold G., Philadelphia, Pa., and M. H. Newgirk, Baltimore, Md. Bushing tightener for locomotive connecting rods. No. 1,424,505; Aug. 1.
- Martin, Harold M., New York, N. Y., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Process and apparatus for treating storage-battery plates. No. 1,402,631; Jan. 3.
- Martin, Harry E., Auburn, Me., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,405,530; Feb. 7.
- Martin, Harry W., and L. M. Calhoun, Gilbert, La. Locking device for demountable rims. No. 1,424,576; Aug. 1.
- Martin, Helmuth P., and O. D. Lucas, Westminster, London, assignors to M. L. Experimental Limited, Westminster, England. Machine gun and similar weapon. No. 1,412,252; Apr. 11.
- Martin, Horace E., Athens, Ga. Stake socket. No. 1,436,513; Nov. 21.
- Martin, James L. (See McGraw, C. O., and Martin.)
- Martin, James V., Elyria, Ohio. Aircraft structure. No. 1,418,008; May 30.
- Martin, James V., Elyria, Ohio. Tractor biplane. No. 1,421,803; July 4.
- Martin, James V., Elyria, Ohio. Wheel. No. 1,432,771; Oct. 24.
- Martin, James V., Garden City, N. Y. Aeroplane alighting device. No. 1,431,017; Oct. 3.
- Martin, James V., assignor to H. D. Harvey, Baltimore, Md. Molding apparatus. No. 1,411,739; Apr. 4.
- Martin, Jesse C., Jr. (See Avan, Charles E., assignor.)
- Martin, Jesse C., Jr., San Francisco, Calif. Plug cock. No. 1,416,732; May 23.
- Martin, Jesse C., Jr., San Francisco, Calif. Interlocking brick. No. 1,431,318; Oct. 10.
- Martin, Jesse W., assignor of one-half to S. Martin, Friendship, Tenn. Coin separator. No. 1,419,878; June 13.
- Martin, John, and F. H. Clough, Rugby, England, assignors to General Electric Company. Electric ship propulsion. No. 1,417,342; May 23.
- Martin, John A., Rhinelander, assignor to Ashland Machine & Paper Company, Ashland, Wis. Paper-waxing machine. No. 1,439,183; Dec. 19.
- Martin, John C., Terre Haute, Ind. Device for holding milk bottles or the like. No. 1,407,432; Feb. 21.
- Martin, John D., Rock Island, Ill. Cue-tip cutter. No. 1,424,506; Aug. 1.
- Martin, John F., Charles Town, W. Va. Shoe sole. No. 1,410,338; Mar. 21.
- Martin, Jorgen W., Mora, Minn. Antirattler. No. 1,424,577; Aug. 1.
- Martin, Jose R., Brooklyn, N. Y. Vise. No. 1,405,306; Jan. 31.
- Martin, Joseph J., Nathalie, Va. Self-setting trap. No. 1,407,558; Feb. 21.
- Martin, Julia A., Knoxville, Tenn. Coal hod. No. 1,427,613; Aug. 29.
- Martin, Laurence, et al., trustees. (See Martin, Laurence C., assignor.)
- Martin, Laurence C., Providence, assignor to E. W. Martin, Barrington, L. C. Martin, Providence, R. I., and G. W. Bleeker, Chicago, Ill., trustees of Martin-Cope land Company. Ophthalmic mounting. No. 1,431,971; Oct. 17.
- Martin, Lynn E., Paducah, Ky. Automatic elevator gate. No. 1,426,663; Aug. 22.
- Martin Machine Company, Inc. (See Martin, Frank J., assignor.)
- Martin, Monroe G., Edinburg, Ind. Apparatus for high-temperature cooking. No. 1,404,456; Jan. 24.
- Martin, Oscar J., assignor to T. C. Moon, Graham, N. C. Knockdown clothes rack and umbrella stand. No. 1,437,256; Nov. 28.
- Martin, Percy W., assignor to Smalley General Company, Bay City, Mich. Clamping tube for thread millers and the like. No. 1,412,809; Apr. 11.
- Martin, Ralph, Sanger, Calif. Loading and dumping lever for scrapers. No. 1,411,176; Mar. 28.
- Martin, Rhetherford B., New York, N. Y. Treating manufactured rubber. No. 1,410,699; Mar. 28.
- Martin, Rhetherford B., New York, N. Y. Composition for treating manufactured rubber. No. 1,422,115; July 11.
- Martin, Richard H., Gainesville, Ga. Wheel. No. 1,419,162; June 13.
- Martin, Richard W., et al. (See Matthiasen, Matthias, assignor.)
- Martin, Robert D., Hull, Tex. Back-up post. No. 1,412,478; Apr. 11.
- Martin, Robert F., New York, N. Y. Brick. No. 1,435,542; Nov. 14.
- Martin, Samuel B., Dalton, Ohio. Store-service ladder. No. 1,432,116; Oct. 17.
- Martin, Sidney O., St. Louis, Mo. Automobile signal device. No. 1,437,901; Dec. 5.
- Martin, Silas. (See Martin, Jesse W., assignor.)
- Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Special service trunk for automatic telephone systems. No. 1,415,001; May 2.
- Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Substation telephone circuit. No. 1,424,368; Aug. 1.
- Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,435,249; Nov. 14.

Alphabetical list of patentees—Continued.

- Martin, Thomas, Vancouver, British Columbia, Canada. Donkey engine. No. 1,435,722; Nov. 14.
- Martin, Thomas A., Washington, D. C. Automobile hoist. No. 1,428,383; Sept. 5.
- Martin, Thomas A., Fergus Falls, Minn. Collar button. No. 1,439,630; Dec. 19.
- Martin, Treville O., et al. (See Howard, Hal, assignor.)
- Martin, Treville O., Jackson, Tenn. Lathe-turning tool. No. 1,414,520; May 2.
- Martin, Treville O., Jackson, Tenn. Tool holder. No. 1,415,379; May 9.
- Martin, Treville O., Jackson, Tenn. Tool holder. No. 1,427,403; Aug. 29.
- Martin, William, Detroit, Mich. Fuel vaporizer. No. 1,411,575; Apr. 4.
- Martin, William, Detroit, Mich. Fuelizing manifold for internal-combustion engines. No. 1,427,540; Aug. 29.
- Martin, William A., Commercial Cross, Prince Edward Island, Canada. Adjustable wrench. No. 1,423,723; July 25.
- Martin, William C., Chicago, Ill. Pneumatic tire and its manufacture. No. 1,412,535; Apr. 11.
- Martin, William C., assignor to Martin Cushion Wheel Co., Chicago, Ill. Cushion wheel construction. No. 1,412,534; Apr. 11.
- Martin, William F., Harrisburg, Pa. Coal screening and washing machine. No. 1,438,125; Dec. 5.
- Martin, William F., Wormleysburg, Pa. Coal washer and separator. No. 1,412,291; Apr. 11.
- Martin, William F., Wormleysburg, Pa. Coal screening and washing machine. No. 1,437,669; Dec. 5.
- Martin, William F., Wormleysburg, Pa. Self-dumping screening and washing machine. No. 1,438,126; Dec. 5.
- Martin, William F., Wormleysburg, Pa. Coal screening and washing machine. No. 1,439,252; Dec. 19.
- Martin, William H., New York, N. Y., assignor to American Telephone and Telegraph Company. Receiving device for signaling systems. No. 1,413,753; Apr. 25.
- Martin, William H., New York, N. Y., assignor to American Telephone and Telegraph Company. Wave filter. No. 1,434,555; Nov. 7.
- Martin, William J. (See Stock, Harry A., assignor.)
- Martin, William J., Toledo, Ohio. Safety device. No. 1,428,966; Sept. 12.
- Martin, Wyatt, Cleveland, Ohio, assignor of one-half to C. Cox. Lock-wire turnbuckle. No. 1,427,114; Aug. 29.
- Martineau, Francis L., London, England. Operating mechanism of kitchen reversing rudders. No. 1,425,887; Aug. 15.
- Martinez, José, Paris, France. Sparking plug for internal-combustion engines. No. 1,418,009; May 30.
- Martinka, Joseph J., Newark, N. J. Surgical appliance for men. No. 1,410,339; Mar. 21.
- Martino, Fagio, Perris, Calif. Means for supplying boilers with antiscald compound. No. 1,434,251; Oct. 31.
- Martinson, Herman M. (See Brown, O. B., Moore, Parker, and Martinson.)
- Martinson, John, Wrenshall, Minn. Stump puller. No. 1,404,781; Jan. 31.
- Martinson, John, Duluth, Minn. Cable grip. No. 1,405,307; Jan. 31.
- Martocci, Frank A., Minneapolis, Minn. Drier. No. 1,418,010; May 30.
- Martocci-Pisculli, Leon, New York, N. Y. Toy. No. 1,422,775; July 11.
- Martz, Edward C., et al. (See Fogle, Earl C., assignor.)
- Marvel Carburetor Company. (See Molony, Donald P., assignor.)
- Marvel Carburetor Company. (See Redmond, Albert G., assignor.)
- Marvel Company, The. (See Burgher, Fred H., assignor.)
- Marvel Company. (See Weir, R. W., and Lowery, assignors.)
- Marvel Equipment Company, The. (See Bellar, Charles J., assignor.)
- Marvin, Henry C., St. Louis Mo. assignor to The Owens Bottle Company, Toledo, Ohio. Darning implement. No. 1,432,772; Oct. 24.
- Marvin, Oscar J. (See Fitz Gerald, N. H., and Marvin.)
- Marvin, William J., Brooklyn, N. Y. Corner lock. No. 1,403,485; Jan. 10.
- Marwood, Cyril, and A. Kidd, Blackburn, England. Golf bag. No. 1,434,621; Nov. 7.
- Marx, Conrad. (See Epstein, Abraham N., assignor.)
- Marx, Frederick P., St. Louis, Mo. Shoe heel. No. 1,419,637; June 13.
- Marx, George B. (See Marx, Robert D., assignor.)
- Marx, Joseph J., St. Louis, Mo. Ironing machine. No. 1,417,622; May 30.
- Marx, Leopold, assignor of one-fifth to R. L. Glenn, Birmingham, Ala. Portable water heater. No. 1,437,814; Dec. 5.
- Marx, Richard, Detroit, Mich. Furnace. No. 1,420,204; June 20.
- Marx, Robert D., assignor to G. B. Marx, Brooklyn, N. Y. Carousel. No. 1,437,534; Dec. 5.
- Marx & Haas Clothing Co. (See Weinberger, Benjamin, assignor.)
- Marye Safety Nut Corporation. (See Furlan, John G., assignor.)
- Maryland Metal Building Company. (See Maisenhalder, Frederick J. G., assignor.)
- Maryland Refining Company. (See Rial, Wirt D., assignor.)
- Masac, Howard A., Los Angeles, Calif. Time gauge for photographic developing, etc. No. 1,421,275; June 27.
- Mascarenhas, Encas G., Juiz de Fora, Brazil. Electric lamp. No. 1,421,276; June 27.
- Mascetti, Joseph, assignor to Mascetti & Holley, Torrington, Conn. Derrick attachment for road rollers. No. 1,423,724; July 25.
- Mascetti & Holley. (See Mascetti, Joseph, assignor.)
- Maschinen fur Massenverpackung G. m. b. H. (See Otting, Karl, assignor.)
- Maschinenbau Aktiengesellschaft Balcke. (See Balcke, Hans, assignor.)
- Maschinenbau - Aktiengesellschaft Balcke. (See Holle, August, assignor.)
- Maschinenfabrik Augsburg-Nuernberg A. G. (See Becher, Theodor, assignor.)
- Maschinenfabrik Augsburg-Nuernberg A.-G. (See Duwe, Friedrich, assignor.)
- Maschinenfabrik Kappel Aktiengesellschaft. (See Verse, Emil, assignor.)
- Maschinenfabrik Oerlikon. (See Karrer, Josef, assignor.)
- Maschinenfabrik Ruti formerly Caspar Houegger. (See Honegger, Albert, assignor.)
- Maschinen- & Metallwarenfabrik G. m. b. H. (See Poudorf, Paul, assignor.)
- Mascord, George W., London, England. Printing machine. No. 1,410,824; Mar. 28.
- Mascord, George W., London, England. Apparatus for feeding web reels or rolls in rotary newspaper printing and similar machines. No. 1,410,825; Mar. 28.
- Mascord, George W., London, England. Rotary printing machine. No. 1,410,826; Mar. 28.
- Mashek, George J. (See Levenson, Herbert S., assignor.)
- Mashek, Joseph A., Oak Park, Ill. Massage apparatus. No. 1,420,049; June 20.
- Mashinski, Frank, La Grange, Ohio. Station indicator. No. 1,436,183; Nov. 21.
- Mason, Albert H. (See Kincaid, Wilbert F., assignor.)
- Mason, Albert H., Gauley Bridge, W. Va. Nut lock. No. 1,437,346; Nov. 28.
- Mason, Arthur C., Flint, assignor to General Motors Corporation, Detroit, Mich. Steering gear and fuel tank support. No. 1,417,192; May 23.
- Mason Box Co., The. (See Rhodes, Russell I., assignor.)
- Mason, Charles T., Sumter, S. C., assignor to Splitdorf Electrical Company, Newark, N. J. Apparatus for generating electric currents. No. 1,416,110; May 16.
- Mason, Davis & Co. (See Rowe, E. C., and Mohr, assignors.)
- Mason, Edwin M., assignor to The Supreme Tribe of Ben Hur, Crawfordsville, Ind. Certificate. No. 1,427,161; Aug. 29.
- Mason, F. E., & Son. (See Mix, George W., assignor.)
- Mason, Frank N., Pittsburgh, Pa., assignor to Mason Packing Company, Packing. No. 1,402,943; Jan. 10.
- Mason, Frank N., assignor to Mason Packing Company, Pittsburgh, Pa. Packing. No. 1,404,780; Jan. 31.
- Mason, Fred R., and T. Fitzpatrick, Ronan, Mont. Machine for removing rails and extracting spikes. No. 1,430,916; Oct. 3.
- Mason, Freeman D., Stow Township, Summit County, Ohio, assignor to Bridgewater Machine Company. Collapsible core. No. 1,429,957; Sept. 26.
- Mason, George L., Warehouse Point, assignor to The J. R. Montgomery Company, Windsor Locks, Conn. Serving spindle. No. 1,403,180; Jan. 10.
- Mason, George L., Warehouse Point, assignor to The J. R. Montgomery Company, Windsor Locks, Conn. Serving spindle. No. 1,403,181; Jan. 10.
- Mason, Harry R., Chicago, Ill. Brake gear for vehicles. No. 1,413,805; Apr. 25.
- Mason, James B., Jr., Nashville, Tenn. Lead pencil. No. 1,402,239; Jan. 3.
- Mason, James B., Jr., Nashville, Tenn. Lead pencil. No. 1,411,116; Mar. 28.
- Mason, James B., Jr., Nashville, Tenn. Lead pencil. No. 1,411,117; Mar. 28.
- Mason, James B., Jr., Nashville, Tenn. Display case for pencils. No. 1,436,184; Nov. 21.
- Mason, James B., Jr., Nashville, Tenn. Lead pencil. No. 1,438,451; Dec. 12.
- Mason, Martin, and O. Lund, Calamus, Iowa. Drawbar. No. 1,430,825; Oct. 3.
- Mason, Max, New London, Conn. Submarine sound receiver. No. 1,414,295; Apr. 25.
- Mason, Max, New London, Conn., assignor to Submarine Signal Company, Portland, Me. Determination of wave-energy direction. No. 1,422,876; July 18.
- Mason, Mell, Exeter, Calif. Coupling device for trailers. No. 1,419,398; June 13.
- Mason Packing Company. (See Mason, Frank N., assignor.)
- Mason, Percy G., assignor to Newman & Guardia, Limited, London, England. Reflex photographic camera. No. 1,416,854; May 23.
- Mason, Ralph K., Bantam, assignor of one-half to J. H. Lancaster, Litchfield, Conn. Quick-break switch. No. 1,420,381; June 20.
- Mason, Ralph K., Bantam, assignor of one-half to J. H. Lancaster, Litchfield, Conn. Quick-make and quick-break switch. No. 1,420,383; June 20.
- Mason, Ralph K., Bantam, assignor of one-half to J. H. Lancaster, Litchfield, Conn. Safety switch. No. 1,424,578; Aug. 1.

Alphabetical list of patentees—Continued.

- Mason, Ralph K., Bantam, assignor of one-half to J. H. Lancaster, Litchfield, Conn. Switch casing and cover lock. No. 1,424,579; Aug. 1.
- Mason Regulator, The, Company. (See Melcher, George S., assignor.)
- Mason, Richard C., Tulsa, Okla. Well-measuring device. No. 1,408,113; Feb. 28.
- Mason, Richard C., Tulsa, Okla. Well-measuring apparatus. No. 1,439,742; Dec. 26.
- Mason, Richard P. (See Gunderson, C. A., and Mason.)
- Mason, Robert G., Brooklyn, N. Y. Lubricating device. No. 1,436,454; Nov. 21.
- Mason, Sumner H., Worcester, Mass. Clothes drier. No. 1,412,412; Apr. 11.
- Mason, William F., Los Angeles, Calif. Table. No. 1,407,039; Feb. 21.
- Mason, William H., Pensacola, Fla. Process and apparatus for enlarging hollow metal articles. No. 1,409,562; Mar. 14.
- Mason, William H., Haverford, Pa. Transferring and classifying freight. No. 1,437,535; Dec. 5.
- Mason, William H., Haverford, Pa. Apparatus for transferring and classifying freight. No. 1,437,536; Dec. 5.
- Mason, William S., Norristown, assignor of one-third to C. B. Harding, Landsdowne, and one-third to H. Fredericks, Philadelphia, Pa. Metal-bending machine. No. 1,418,955; June 6.
- Asonick, Joseph A., Lake Bluff, Ill. Dishwashing machine. No. 1,435,172; Nov. 14.
- Aspons, Albert E., Philadelphia, Pa. Structure for operating upon cigar wrappings. No. 1,417,933; May 30.
- Assa, Robert F., New York, N. Y. Stuffing box. No. 1,425,268; Aug. 8.
- Massachusetts Automobile Club Trust, Trustees of. (See Schuyler, P. L., and Snow, assignors.)
- Assarella, John, Cincinnati, Ohio. Confectionery-coating machine. No. 1,417,086; May 23.
- Asseroni, Rinaldo C., Milan, Italy. Thermoelectric apparatus for heating flowing liquids. No. 1,436,889; Nov. 28.
- Massey, Alfred N., San Francisco, Calif. Nut-branding machine. No. 1,403,436; Jan. 10.
- Massey Concrete Products Corporation. (See Hanna, David B., assignor.)
- Massey Concrete Products Corporation. (See Kircher, Paul, assignor.)
- Massey Concrete Products Corporation. (See Moody, Joseph E., assignor.)
- Massey, John F., Chicago, Ill. Resilient wheel. No. 1,432,253; Oct. 17.
- Massey, John W., Jr., et al. (See Massey, William F., assignor.)
- Massey, Joseph F., et al. (See Massey, William F., assignor.)
- Massey, William F., Clarendon, Va., assignor of one-third to J. W. Massey, Jr., and one-third to J. F. Massey, Washington, D. C. Fishing net. No. 1,439,908; Dec. 26.
- Massey-Harris Company. (See Johnston, Howard M., assignor.)
- Massey-Harris Harvester Company. (See Maul, Christian, assignor.)
- Massey-Harris Harvester Co. (See Pollard, Arthur L., assignor.)
- Massie, Thomas K., Hatcher, W. Va. Beehive. No. 1,417,623; May 30.
- Massip, Georges, Paris, France. Automatically-working steam trap. No. 1,406,747; Feb. 14.
- Massip, Georges, Paris, France. Valve. No. 1,406,748; Feb. 14.
- Masson, Charles T., Wood Bay, Manitoba, Canada. Watch pocket for overalls, working shirts, and the like. No. 1,421,519; July 4.
- Mason, Henry J., assignor to J. M. Gerard, New York, N. Y. Manufacturing carbon black, lampblack, and hydrogen. No. 1,418,385; June 6.
- Masson, Maxime, Schumacher, Ontario, Canada. Rotary engine. No. 1,412,190; Apr. 11.
- Mastenbrook, Henry J., Lakewood, assignor to The Coach Builders Hardware Company, Cleveland, Ohio. Automobile door hinge. No. 1,427,308; Aug. 29.
- Mastenbrook, Henry J., Lakewood, Ohio, assignor to The Ohio Body & Blower Company, Cleveland, Ohio. Burner. No. 1,437,188; Nov. 28.
- Master Cord Belt Company, The. (See Fisher, George R., assignor.)
- Master-Valve Company Limited, The. (See Jackson, Mansell B., Jr., assignor.)
- Masterman, Arthur T. (See Rogers, D. M., and Masterman.)
- Masters, James C. (See Anderson, J. F., Jr., and Masters.)
- Masters, John E., Hartford, Conn. Shoe tread. No. 1,433,902; Oct. 31.
- Masters, Nick, Wyatt, W. Va. Adjustable auger. No. 1,410,206; Mar. 21.
- Masters, Tom P., Vancouver, British Columbia, Canada. Means for neutralizing the effect of earth currents in a polar relay. No. 1,402,240; Jan. 3.
- Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Distance rod for motor vehicles. No. 1,403,513; Jan. 17.
- Masury, Alfred F., New York, N. Y., and L. C. Josephs, Jr., Allentown, Pa., assignors to International Motor Company, New York, N. Y. Leading truck for railway motor cars. No. 1,423,238; July 18.
- Masury, Alfred F., and A. H. Leipert, assignors to International Motor Company, New York, N. Y. Cushion connection for vehicle construction. No. 1,404,876; Jan. 31.
- Maszczyk, Alexander, Milwaukee, Wis. Coupling. No. 1,425,206; Aug. 8.
- Matalavage, Victor, Columbus, Ohio. Combined drill and valve grinder. No. 1,429,361; Sept. 19.
- Matches, William. (See Van Fleet, Irwin J., assignor.)
- Matchette, Frank J., assignor to Servidor Company, New York, N. Y. Service door. No. 1,403,559; Jan. 17.
- Matchette, Frank J., assignor to Servidor Company, New York, N. Y. Lock. No. 1,439,566; Dec. 19.
- Mathe, J. J., et al. (See Kennedy, Homer R., assignor.)
- Mathe, Joseph J., et al. (See Kennedy, Homer R., assignor.) (Reissue.)
- Mather, Alonzo C., Chicago, Ill. Frictional draft gear for railway cars. No. 1,427,309; Aug. 29.
- Mather, Waldo E. (See Apfel, Philip F., assignor.)
- Mathers, Alexander S., Los Angeles, Calif. Tie device. No. 1,423,133; July 18.
- Mathers, James E. (See Phillips, N. E., and Mathers.)
- Mathers, Samuel A., Chillicothe, Ohio. Railway truck. No. 1,422,116; July 11.
- Mathes, Kirke B., Batavia, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Finishing footwear. No. 1,439,743; Dec. 26.
- Mathes, Peter, Chicago, Ill. Radiator construction. No. 1,417,087; May 23.
- Mathes, Robert C., assignor to Western Electric Company, Incorporated, New York, N. Y. Phonograph reproducer. No. 1,409,388; Mar. 14.
- Mathes, Robert C., assignor to Western Electric Company, Incorporated, New York, N. Y. Circuit for electron-discharge devices. No. 1,426,754; Aug. 22.
- Mathes, Robert C., New York, N. Y., and H. S. Read, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Vacuum-tube circuits and operating them. No. 1,426,755; Aug. 22.
- Mathesius, Walter, Charlottenburg, Germany. Briquetting iron oxide. No. 1,403,437; Jan. 10.
- Matheson, Alexander, London, England. Utilization of alunite ore in making superphosphates. No. 1,413,048; Apr. 18.
- Matheson, Howard W., Shawinigan Falls, Quebec, Canada. Manufacture of acetic acid. No. 1,410,207; Mar. 21.
- Matheson, Howard W., Montreal, Quebec, Canada. Manufacturing acetaldehyde. (Reissue.) No. 15,434; Aug. 22.
- Matheson, Howard W., and G. E. Grattan, Shawinigan Falls, assignors to Shawinigan Laboratories Limited, Montreal, Quebec, Canada. Manufacture of acetic anhydride. No. 1,425,500; Aug. 8.
- Matheson, James H., Reading, Pa. Apparatus for making lapwadded tubes. No. 1,436,514; Nov. 21.
- Matheson, John N., et al. (See Galopin, Henri, assignor.)
- Mathews, Karl. (See Machereux, Louis, assignor.)
- Mathews, Karl, Chicago, Ill. Belt and the like. No. 1,422,999; July 18.
- Mathews, Alexander. (See White, O. M., and McCullough, assignors.)
- Mathews, Annie, et al., executrix. (See Mathews, Thomas.)
- Mathews, Fred, Chicago, Ill. Shoe rack. No. 1,419,163; June 18.
- Mathews, Fred, Chicago, Ill. Fastening device for automobile hoods. No. 1,423,773; July 25.
- Mathews Gravity Carrier Company. (See Buck, Herman J., assignor.)
- Mathews, Jacob S. and W. J., and S. Brown, Chicago, Ill.; said W. J. Mathews and said Brown assignors to said Jacob S. Mathews. Paper clip. No. 1,403,615; Jan. 17.
- Mathews, John S., Duluth, Minn. Aerial torpedo. No. 1,411,861; Apr. 4.
- Mathews, Peyton L., Baton Rouge, La. Railway. No. 1,417,088; May 23.
- Mathews, Sadie L., St. Louis, Mo. Electric lock and alarm for automobiles. No. 1,429,247; Sept. 19.
- Mathews, Samuel J., Sapulpa, Okla., assignor to B. B. Manufacturing and Drilling Company. Well-drilling apparatus. No. 1,436,890; Nov. 28.
- Mathews, Thomas, deceased, Leicester, England; A. Mathews and H. W. Buckingham, executors. Puppet or marionette show. No. 1,403,514; Jan. 17.
- Mathews, Thomas, deceased, Leicester, England; A. Mathews and H. W. Buckingham, executors. Cardboard and like toy. No. 1,403,515; Jan. 17.
- Mathews, Thomas, deceased, by A. Mathews, Leicester, and H. Buckingham, London, England, administrators. Toy Punch and Judy show. No. 1,419,976; June 20.
- Mathews, Thomas, deceased, by A. Mathews, Leicester, and H. Buckingham, London, England, administrators. Advertising and display device. No. 1,421,277; June 27.
- Mathews, Thomas, deceased, Leicester, England; A. Mathews and H. W. Buckingham, executors. Eyes of dolls, toy animals, and the like. No. 1,430,093; Sept. 26.

Alphabetical list of patentees—Continued.

- Mathiasen, Georg E., Copenhagen, Denmark. Machine for marking articles sent to the laundry. No. 1,436,599; Nov. 21.
- Mathieson Alkali Works, Inc., The. (See MacMahon, James H., assignor.)
- Mathieu, Lucand et Cie. (See Vindrier, Stephane L. J., assignor.)
- Mathieu, François, Marseille, France. Elastic wheel. No. 1,436,278; Nov. 21.
- Mathieu, Franklin G., Chicago, Ill. Talking-machine reproducer. No. 1,408,820; Mar. 7.
- Mathieu, Frederick W., assignor to Duplexalite Corporation, New York, N. Y. Lighting fixture. No. 1,428,603; Sept. 12.
- Mathieu, Joseph, Lyon, France. Chair, table, and the like. No. 1,408,114; Feb. 28.
- Mathieu, Joseph N., Pittsfield, Mass., assignor to General Electric Company. Motor controller. No. 1,410,944; Mar. 28.
- Mathisen, Hjalmar. (See Bastian, C. L., and Mathisen.)
- Mathison, Leslie J., Black River Falls, Wis. Self-steering attachment for tractors. No. 1,426,491; Aug. 22.
- Mathy, Maurice, Liege, Belgium. Regenerative furnace. No. 1,404,626; Jan. 24.
- Mathy, Maurice, Liege, Belgium. Production of bottles or other vessels and apparatus therefor. No. 1,425,124; Aug. 8.
- Matlock, Chauncey, Brooklyn, N. Y., assignor to Monroe-Louisiana Carbon Company, Monroe, La. Process and apparatus for producing carbon black. No. 1,438,542; Dec. 12.
- Matney, William, Stone, Ky. Car-wheel-rerailing block. No. 1,404,877; Jan. 31.
- Matoba, Hisasin, Seattle, Wash. Track gauge and level. No. 1,410,491; Mar. 21.
- Matot, Duffy A. (See Kreiter, W. J., and Feth, assignors.)
- Matoushek, Frank, Colome, S. D. Cultivator blade. No. 1,402,878; Jan. 10.
- Matranga, Vincenza, administratrix. (See Matranga, Vincenzo.)
- Matranga, Vincenzo, deceased, New York, N. Y.; V. Matranga, administratrix. Confection-coating machine. No. 1,420,436; June 20.
- Matrazzo, Anthony, Baltimore, Md. Polishing device. No. 1,405,808; Jan. 31.
- Matsen, Herman, Chicago, Ill. Corrugating machine for steering wheels. No. 1,411,055; Mar. 28.
- Matson, Charles L., Chicago, Ill. Safety-razor motor and the like. No. 1,405,794; Feb. 7.
- Matson, David E., St. Paul, assignor to W. A. Carlson, Minneapolis, Minn. Hospital screen. No. 1,416,733; May 23.
- Matson, George W., Brooklyn, N. Y. Filtering material. No. 1,411,975; Apr. 4.
- Matson, Henry L., Astoria, Oreg. Wheel holder. No. 1,407,332; Feb. 21.
- Matson, Leslie C., Dunbarton, Wis. Flash light. No. 1,421,093; June 27.
- Matson, Taylor, Philadelphia, Pa. Fire brick structure for furnaces. No. 1,436,279; Nov. 21.
- Matsui, Chiyoasaburo. (See Sato, K., and Matsui.)
- Matsumoto, Shigeru, Osaka, Japan. Metallic link belt. No. 1,427,008; Aug. 22.
- Matsumaga, Harry, San Francisco, Calif. Toothbrush. No. 1,414,886; May 2.
- Matsushita, Gentaro, Selma, Calif. Direction-indicating device. No. 1,404,991; Jan. 31.
- Matsushita, Gentaro, Fresno, Calif. Tray-stacking machine. No. 1,427,490; Aug. 29.
- Matt, Charles J., Toledo, Ohio. Tire. No. 1,411,447; Apr. 4.
- Matta, George, Bradnock, Pa. Flying machine. No. 1,408,115; Feb. 28.
- Mattia, John. (See Freeble, Benjamin F., assignor.)
- Matter, Albert J., Merrimac, assignor, by mesne assignments, to Geo. J. Kelly, Inc., Lynn, Mass. Covered box. No. 1,418,090; May 30.
- Matter, Gustave O. (See Birchman, A., Matter, and McCoy.)
- Mattern, David L., New York, N. Y., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Winding device. No. 1,417,402; May 23.
- Mattern, George A., Berkeley, Calif. Bathing suit. No. 1,421,704; July 4.
- Matteson, Walter C., Stockton, Calif. Track supporting frame for tractors. No. 1,411,448; Apr. 4.
- Mattern, George W., assignor to The Crawford, McGregor and Canby Company, Dayton, Ohio. Insert for golf clubs. No. 1,435,318; Nov. 14.
- Mattheis, Gottlieb, Beulah, N. Dak. Push tractor. No. 1,435,076; Nov. 7.
- Matthes, Samuel S. (See Manz, M. W., and Matthes.)
- Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Electric-conductor support and system. No. 1,402,000; Jan. 3.
- Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Sectional insulator. No. 1,405,608; Feb. 7.
- Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Conductor support. No. 1,405,609; Feb. 7.
- Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Sectional insulator. No. 1,410,700; Mar. 28.
- Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Electric-current-collecting device. No. 1,416,040; May 16.
- Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley-aligning harp. No. 1,423,575; July 25.
- Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Expansion bolt. No. 1,434,394; Nov. 7.
- Matthews, Abraham F., Pocahontas, Iowa. Fender attachment for cultivators. No. 1,413,127; Apr. 18.
- Matthews, Alfred C., Melbourne, Victoria, Australia. Concrete and like building block or slab. No. 1,421,278; June 27.
- Matthews, Andrew E., Plymouth, Pa. Handrail. No. 1,405,309; Jan. 31.
- Matthews, Arthur H., Limoilou, assignor of one-half to R. H. Doddridge, Province of Quebec, Canada. Visual telegraph signal. No. 1,413,049; Apr. 18.
- Matthews Boat Company, The. (See Cosgray, Mark C., assignor.)
- Matthews, Charles K., Portland, Oreg. Speed-changing device. No. 1,420,272; June 20.
- Matthews, Chauncey C. (See Miller, A., and Matthews.)
- Matthews, Fred E., Leonia, N. J. Refrigeration apparatus. No. 1,404,457; Jan. 24.
- Matthews, Glenn H., assignor to A. Vonnegut, Indianapolis, Ind. Removable cutter head for motor-driven mowers. No. 1,426,492; Aug. 22.
- Matthews, Herbert, and R. J. Seator, Battle Creek, Mich. Fish holder. No. 1,418,595; June 6.
- Matthews, James A., Quapaw, Okla. Soap-saver shaving mug. No. 1,430,917; Oct. 3.
- Matthews, James E., Farrell, Pa. Sled. No. 1,437,815; Dec. 5.
- Matthews, James H. (See Wagner, F. M., and Matthews.)
- Matthews, James H., assignor to Jas. H. Matthews & Co., Pittsburgh, Pa. Means for embossing. (Reissue.) No. 15,279; Jan. 31.
- Matthews, Jas. H., & Co. (See Matthews, James H., assignor. (Reissue.)
- Matthews, John H., Northcote, near Melbourne, Victoria, Australia. Break-of-gauge mechanism. No. 1,408,219; Feb. 28.
- Matthews, Leo A., Binghamton, N. Y. Bench dog. No. 1,424,842; Aug. 8.
- Matthews, Lorrin A., Victor, Iowa. Rail chair. No. 1,403,906; Jan. 17.
- Matthews, Newton N., Berlin, Md. Tractor lug. No. 1,406,749; Feb. 14.
- Matthews, Otto C., Savannah, Ga. Wormproof antifouling paint. No. 1,434,304; Oct. 31.
- Matthews, Samuel C., et al. (See Storey, William H., assignor.)
- Matthews, Scott J., Port Clinton, Ohio. Engine lubricator. No. 1,420,125; June 20.
- Matthews, W. N., and Brother, Inc. (See Birkenmaier, Theodore, assignor.)
- Matthews, W. N., and Brother, Inc. (See Heinrich, Walter A., assignor.)
- Matthews, William J. (See Matthews, Jacob S. and W. J., and Brown.)
- Matthey, Samuel, Seattle, Wash. Ratchet wrench. No. 1,406,467; Feb. 14.
- Matthiasen, Matthias, assignor of one-third to R. W. Martin and one-third to T. L. Rodda, San Pedro, Calif. Cask handler. No. 1,406,052; Feb. 7.
- Mattice, Royal, Philadelphia, Pa. Welding tool. No. 1,419,744; June 13.
- Mattice, Royal, Philadelphia, Pa. Welding and apparatus therefor. No. 1,437,257; Nov. 28.
- Mattick, Victor A. (See Pelling, E. R., and Mattick.)
- Mattick, Victor A. (See Pelling, Ernest R., assignor.)
- Mattingley, Ray S., Rockport, Ind. Singletree. No. 1,411,501; Apr. 4.
- Mattingley, Joseph L. (See England, W. A., and Mattingley.)
- Mattison, Richard V., Ambler, Pa., assignor to Asbestos Shingle, Slate & Sheathing Company. Asbestos-cement product and forming the same. No. 1,423,000; July 18.
- Mattivi, John, Mulberry, Kans. Binding strip. No. 1,439,253; Dec. 19.
- Mattison, John A., assignor of one-half to A. S. Nojd, Chicago, Ill. Roof carriage. No. 1,412,060; Apr. 11.
- Mattison, Julius, Chicago, Ill. Clamping device. No. 1,420,725; June 27.
- Mattson, Julius G., Heretaunga, New Zealand. Saw. No. 1,421,520; July 4.
- Mattson, Vernon L., South Charleston, W. Va. Mathematical instrument. No. 1,419,283; June 13.
- Maturin, Lysle S., Brooklyn, N. Y. Counting device. No. 1,403,182; Jan. 10.
- Matuschak, Anton, New York, N. Y. Hose clamp. No. 1,412,562; Apr. 11.
- Matuschak, Anton, and A. Langsch, New York, N. Y. Attachment for filling barrels. No. 1,427,965; Sept. 5.
- Matuszewski, Edward, Southbridge, Mass. Rail. No. 1,431,018; Oct. 3.
- Matyga, Josef. (See Pokrzywa, W., Matyga, and Lewandowski.)
- Ma zen, Herman N., Cleveland Heights, Ohio. Pipe. No. 1,422,367; July 11.
- Matzet, George M., now by judicial change of name George M. Malton). (See Smith, Clyde H., assignor.)

- Mauch, John L., Brooklyn, N. Y. Process and apparatus for casting hot liquid material. No. 1,417,542; May 30.
- Mauck, Robert G., Princeton, Ind. Engine-cylinder dresser. No. 1,434,622; Nov. 7.
- Mauck, Victor, Norristown, Pa. Gas water heater. No. 1,416,487; May 16.
- Mauck, Victor, Norristown, Pa. Munition casing. No. 1,422,219; July 11.
- Mauck, Victor, Norristown, Pa. Munition casing. No. 1,427,220; Aug. 29.
- Mauck, Victor, Norristown, Pa. Sheet-metal vessel. No. 1,427,404; Aug. 29.
- Mauck, Victor, Norristown, Pa. Munition casing. No. 1,429,958; Sept. 26.
- Mauclaire, Louis, assignor to himself, A. Garbarini, and G. Gautier, Paris, France. Cinematography in natural colors. No. 1,421,279; June 27.
- Mauclère, Pierre A. P. V., Paris, France. Safety apparatus for the storage and distribution of inflammable and other liquids within tanks and piping out of contact with the air. No. 1,419,880; June 13.
- Maul, Christian, assignor to Massey-Harris Harvester Company, Inc., Batavia, N. Y. Grain harvester. No. 1,435,724; Nov. 14.
- Maul, Christian, assignor to Massey-Harris Harvester Company, Inc., Batavia, N. Y. Grain harvester. No. 1,435,725; Nov. 14.
- Maul, Christian, assignor to Massey-Harris Harvester Company, Inc., Batavia, N. Y. Grain harvester. No. 1,435,726; Nov. 14.
- Maul, Henry C., assignor to The Michigan Stove Company, Detroit, Mich. Hotel broiler. No. 1,425,501; Aug. 8.
- Mauldin, William E., Los Angeles, Calif. Lock. No. 1,434,787; Nov. 7.
- Maull, Edward N., assignor of one-half to H. C. Ploof, Jacksonville, Fla. Stripper and huller. No. 1,405,610; Feb. 7.
- Maull, Edward N., Orlando, assignor to Skinner Machinery Company, Dunedin, Fla. Polishing machine. No. 1,418,666; June 6.
- Maull, Edward N., Orlando, assignor to Skinner Machinery Company, Dunedin, Fla. Washing apparatus. No. 1,419,399; June 13.
- Maupin, Graves R., assignor, by mesne assignments, to The J. Faessler Manufacturing Company, Moberly, Mo. Reamer. No. 1,439,567; Dec. 19.
- Maupin, Graves R., assignor, by mesne assignments, to The J. Faessler Manufacturing Company, Moberly, Mo. Combination boiler tool. No. 1,439,568; Dec. 19.
- Maupin, Graves R., assignor, by mesne assignments, to The J. Faessler Manufacturing Company, Moberly, Mo. Boiler tool. No. 1,439,569; Dec. 19.
- Maupin, Graves R., assignor, by mesne assignments, to The J. Faessler Manufacturing Company, Moberly, Mo. Boiler tool. No. 1,439,570; Dec. 19.
- Maupin, Leslie E., Campbellsville, Ky. Calculator. No. 1,414,198; Apr. 25.
- Maurer, Emil, and G. Wernli, Aarau, Switzerland. Machine for grating, mashing, and pressing fruits. No. 1,413,866; Apr. 25.
- Maurer, Harry I., Bethlehem, Pa. Milk-bottle holder. No. 1,412,128; Apr. 11.
- Maurer, Henry E., jr., Springfield, Ill. Radiator cap. No. 1,431,123; Oct. 3.
- Maurer, Henry E., Jr., assignor to Ideco, Springfield, Ill. Liquid-dispensing apparatus. No. 1,419,284; June 13.
- Maurer, John F., New Durham, N. J. Box. No. 1,412,663; Apr. 11.
- Maurer, Joseph F., and G. W. Beiser, Peru, Ill. Drop step for passenger coaches. No. 1,429,607; Sept. 19.
- Maurer, Louis A., Irvington, N. J. Device for swimming and exercising. No. 1,433,142; Oct. 24.
- Maurer, Martin, Pueblo, Colo. Quick-weighing attachment for scales. No. 1,429,362; Sept. 19.
- Maurer, Martin J. C. A., Springfield, Ill. Latch. No. 1,416,370; May 16.
- Maury, Dabney H., Evanston, Ill. Well. No. 1,425,888; Aug. 15.
- Maus, Frank, assignor of one-half to S. J. Spoelstra, San Jose, Calif. Dehydrator. No. 1,402,306; Jan. 3.
- Maus, Frank, assignor of one-half to S. J. Spoelstra, San Jose, Calif. Dehydrating apparatus. No. 1,413,924; Apr. 25.
- Maus, Frank, assignor of one-half to S. J. Spoelstra, San Jose, Calif. Method of and apparatus for dehydrating material. No. 1,418,386; June 6.
- Mauss, Wilhelm, Johannesburg, Transvaal Province, South Africa. Centrifugal filter. No. 1,404,157; Jan. 17.
- Mauss, Wilhelm, assignor to Continuous Centrifugal Separators Limited, Johannesburg, Transvaal, South Africa. Centrifugal decantation. No. 1,419,285; June 13.
- Mauss, Wilhelm, assignor to Continuous Centrifugals Limited, Johannesburg, Transvaal, South Africa. Vacuum filter. No. 1,419,286; June 13.
- Mauss, Wilhelm, assignor to Continuous Centrifugals Limited, Johannesburg, Transvaal, South Africa. Mixing liquid or semiliquid. No. 1,438,843; Dec. 12.
- Maussner, Frederick, Collingswood, N. J., assignor to Henry Wilhelm Company, Pittsburgh, Pa. Mattress. No. 1,423,954; July 25.
- Mautsch, Robert H. (See Yseboodt, G., and Mautsch.)
- Max Ams Machine Company, The. (See Brenzinger, Julius, assignor.)
- Maxenchs, Hyacinth, New York, N. Y. Flexible metallic structure. No. 1,422,776; July 11.
- Maxey, Lloyd E., Wichita, Kans. Proportional-feed regulator. No. 1,427,405; Aug. 29.
- Maxfield, Joseph P., Milburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Vibration detector. No. 1,406,672; Feb. 14.
- Maxfield, Joseph P., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Acoustical aid for deaf persons. No. 1,422,877; July 18.
- Maxfield, Joseph P., Milburn, and G. O. Smith, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Resistance material and manufacturing same. No. 1,403,803; Jan. 17.
- Maxfield, Joseph P., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Vibrating system. No. 1,434,788; Nov. 7.
- Maxian, Martin, Johnstown, Pa. Flycatcher. No. 1,428,384; Sept. 5.
- Maxim, Hudson, Hopatcong Borough, N. J. Automobile or self-propelled torpedo. No. 1,412,789; Apr. 11.
- Maxim Manufacturing Company. (See Smith, Charles F., assignor.)
- Maximilian, Max. (See Keller, W. H., Maximilian, and Schintez.)
- Maximum Power Co. (See Sibley, Frederick H., assignor.)
- Maxted, Edward B., Walsall, assignor to John Thompson (Gas Developments) Limited, Wolverhampton, England. Manufacture of hydrogen. No. 1,438,387; Dec. 12.
- Maxwell, Arthur, et al. (See Maxwell, Smith, assignor.)
- Maxwell, Bert E., Wichita, Kans. Pneumatic-tire-cutting machine. No. 1,412,951; Apr. 18.
- Maxwell, Elmer T., Wheeling, W. Va. Paper dish. No. 1,423,001; July 18.
- Maxwell Engineering and Manufacturing Company. (See Seavey, Haller D., assignor.)
- Maxwell, Erastus M., Cardinal, Va. Merry-go-round. No. 1,435,648; Nov. 14.
- Maxwell, Erastus M., and I. K. Hearn, Cardinal, Va. Seesaw. No. 1,429,289; Sept. 19.
- Maxwell, George E., New Ullyses, Kans. Automatic clutch release. No. 1,421,521; July 4.
- Maxwell, Herbert C., Cleveland, Ohio. Flashing and counterflashing for roofs, etc. No. 1,419,287; June 13.
- Maxwell, James D., Brooklyn, N. Y. Valveless manifold. No. 1,409,563; Mar. 14.
- Maxwell, James D., Brooklyn, N. Y. Valve. No. 1,420,662; June 27.
- Maxwell, James D., Brooklyn, N. Y. Valve construction. No. 1,420,663; June 27.
- Maxwell, James D., Brooklyn, N. Y. Nonreturn valve. No. 1,420,664; June 27.
- Maxwell, John, Camrose, Alberta, Canada. Power track-ballast shovel. No. 1,407,559; Feb. 21.
- Maxwell, Margaret M., Bridgeport, Conn. Garment clasp. No. 1,403,907; Jan. 17.
- Maxwell, Maxwell C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Reinforced ring for pin-tumbler locks. No. 1,407,472; Feb. 21.
- Maxwell, Maxwell C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,422,594; July 11.
- Maxwell, Maxwell C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Cylinder lock. No. 1,422,595; July 11.
- Maxwell, Raymond F., Long Beach, Calif. Reversible valve. No. 1,405,310; Jan. 31.
- Maxwell, Singleton A., Montour Falls, assignor of one-half to F. J. Seeley, Wellsville, N. Y. Reamer. No. 1,407,560; Feb. 21.
- Maxwell, Smith, assignor of one-third to M. Hennessy and one-third to A. Maxwell, Knightsville, Ind. Frog switch. No. 1,437,944; Dec. 5.
- Maxwell, William O. (See Bullum, Steve, and Maxwell.)
- May, Alison, Portland, Oreg. Jar lifter. No. 1,420,273; June 20.
- May, Charles W., Bainbridge, Ga., assignor to The May Record Rack Company, Rack. No. 1,412,664; Apr. 11.
- May, David T., assignor to Western Electric Company, Incorporated, New York, N. Y. Recording instrument. No. 1,413,725; June 6.
- May, Eugene, Jr., R. J. Bullen, and A. Voight, Washington, D. C. Insect-excluding device for use on greenhouse ventilators. No. 1,402,241; Jan. 3.
- May, Francis M., Louisville, Ky. Electric heater. No. 1,416,225; May 16.
- May, Henry A. (See Jackson, H. R., and May.)
- May, Henry A. (See Jackson, Harry R., assignor.)
- May, Joseph M., East Milton, assignor to Ryan-Cushing Co., Boston, Mass. Collar case. No. 1,429,608; Sept. 19.
- May, Julius. (See Woodliff, George, Jr., and May.)
- May, Laurence J., Indianapolis, Ind., assignor to C. E. Sargent, Rock Island, Ill. Gasifier. No. 1,420,616; June 20.
- May Record Rack Company, The. (See May, Charles W., assignor.)
- May, Robert G., Louisville, Ky. Automobile direction indicator. No. 1,409,881; Mar. 14.
- May, Russell P., Washington, D. C. Combined brake and accelerator. No. 1,406,402; Feb. 14.
- May, Sidney S. (See Weber, Paul J., assignor.)

Alphabetical list of patentees—Continued.

- Maybury, John B. (See Coates, Joseph, assignor.)
 Mayer, Armand M., Levallois-Perret, France. Telemecanic installation. No. 1,435,868; Nov. 14.
 Mayer, Arthur. (See Kuhrick, A. J. H., and Mayer.)
 Mayer, Arthur, New York, N. Y. Ignition cut-out. No. 1,438,388; Dec. 12.
 Mayer, Bertram, W. Moser, and J. Würzler, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Vat dyestuff derived from anthraquinone and making same. No. 1,436,770; Nov. 28.
 Mayer, Carl F. (See Fleury, A. N., and Mayer.)
 Mayer, Edward J., Hammond, Ind. Carboy hood. No. 1,435,723; Nov. 14.
 Mayer, Elmer J., assignor to J. Schneps, New York, N. Y. Amusement device. No. 1,420,437; June 20.
 Mayer, Ferdinand. (See Barnett, Morrison J., assignor.)
 Mayer, Franc D., Chicago, Ill. Tire construction. No. 1,425,788; Aug. 15.
 Mayer, George F., Chicago, Ill. Lock. No. 1,421,522; July 4.
 Mayer, Godfried J., Buffalo, N. Y. Carburetor. No. 1,414,035; Apr. 25.
 Mayer, Henry A., assignor of one-half to B. H. Janssen, Yorktown, Tex. Cultivator. No. 1,402,242; Jan. 3.
 Mayer, John, Minneapolis, Minn. Vehicle signal. No. 1,407,471; Feb. 21.
 Mayer, John G., Milwaukee, Wis. Hay carrier. No. 1,435,123; Nov. 7.
 Mayer, Joshua W., New York, N. Y. Jewel setting. No. 1,435,936; Nov. 21.
 Mayer, Max, New York, N. Y., assignor to M. J. Wohl & Co. Inc., Long Island City, N. Y. Arc-light cluster. No. 1,409,191; Mar. 14.
 Mayer, Michael, Cleveland, Ohio. Safety attachment for meat grinders. No. 1,412,536; Apr. 11.
 Mayer, Milton, Burlington, Iowa. Pump oil can. No. 1,426,586; Aug. 22.
 Mayer, Waldemar F., Philadelphia, Pa., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Compound valve pump or motor. No. 1,414,965; May 2.
 Mayer, Walter S. (See Lewis, H. G., and Mayer.)
 Mayer, William G., Pittsburgh, Pa. Truck hoist. No. 1,418,387; June 6.
 Mayer & Garrison. (See Garrison, Earl E. and W., assignors.)
 Mayfield, Charlie M., Belzoni, Miss. Fire-kindling device. No. 1,411,118; Mar. 28.
 Mayfield, Walker, Bowling Green, Ky. Beaded roofing and lock therefor. No. 1,410,945; Mar. 28.
 Mayhew, Earl P., Kimberly, Nev. Ore classifier. No. 1,430,665; Oct. 3.
 Mayhew, Edward A., Chicago, Ill., assignor, by mesne assignments, to W. P. Murphy, New York, N. Y. Card-door lock. No. 1,431,171; Oct. 10.
 Mayhew, Jacob V., Pittsburgh, Pa. Rail tie. No. 1,417,851; May 30.
 Mayhew, James N., Minneapolis, Minn. Shoe-tree. No. 1,437,735; Dec. 5.
 Mayhew, William E., Stockton, Calif. Loader. No. 1,412,952; Apr. 18.
 Mayle, Albert M., Toledo, Ohio. Multiple-operation tool. No. 1,432,481; Oct. 17.
 Mayleas, Joseph M., New York, N. Y. Hat construction. No. 1,412,479; Apr. 11.
 Maynard, Albert E., assignor to American Optical Company, Southbridge, Mass. Grinding tool. No. 1,405,424; Feb. 7.
 Maynard, Albert E., assignor to American Optical Company, Southbridge, Mass. Spectacle-frame machinery. No. 1,406,053; Feb. 7.
 Maynard, Albert E., Southbridge, Mass., assignor to American Optical Company. Frame stretcher. No. 1,428,444; Sept. 5.
 Maynard, Albert E., and W. A. Gunning, assignors to American Optical Company, Southbridge, Mass. Lap-forming machine. No. 1,408,305; Feb. 28.
 Maynard, Albert E., and W. A. Gunning, assignors to American Optical Company, Southbridge, Mass. Edging machine. No. 1,439,631; Dec. 19.
 Maynard, Charles E., Northampton, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tube-stripping machine. No. 1,402,171; Jan. 3.
 Maynard, Grady E., Barnesville, Ga. Coil box. No. 1,404,627; Jan. 24.
 Maynard, James B., Superior, Wis. Storm sash and screen fastener. No. 1,414,966; May 2.
 Maynard, Lee H. P., Philadelphia, Pa., assignor of one-half to George P. Sacks, Bradley Hills, Md. Production of ice cream. No. 1,415,669; May 9.
 Mayne-Reade, Ralph, and P. J. Quinn, Quebec, Quebec, Canada. Fender. No. 1,437,945; Dec. 5.
 Maynes, Emma C. (See Maynes, Hyla F., assignor.)
 Maynes, Hyla F., assignor of one-half to E. C. Maynes, Gaines, Pa. Amusement ride. No. 1,439,478; Dec. 19.
 Mayo, Benjamin F. (See Clary, B. N., and Mayo.)
 Mayo, Benjamin F., Salem, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Last-pulling machine. No. 1,400,192; Mar. 14.
 Mayo, Benjamin F., Salem, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heeling machine. No. 1,415,941; May 16.
 Mayo, J. M., et al. (See Buttram, William H., assignor.)
 Mayo, W. D., et al. (See Buttram, William H., assignor.)
 Mayoh, Frank H., Holyoke, Mass. Milling-machine construction. No. 1,437,902; Dec. 5.
 Mayor, William, East Cleveland, Ohio. Portable furnace. No. 1,408,624; Mar. 7.
 Mayr, Tony, New York, N. Y. Combined snap and slide fastener. No. 1,403,802; Jan. 17.
 Mayrow, James J., London, England. Construction of aircraft wings and aerofoils. No. 1,421,280; June 27.
 Mays, James L., Dallas, Tex. Power-transmission mechanism. No. 1,404,628; Jan. 24.
 Mays, James L., Dallas, Tex. Power-transmission mechanism. No. 1,414,479; May 2.
 Mays, William A., Austin, Tex. Oil burner. No. 1,419,070; June 6.
 Maytag Company, The. (See Dremel, Albert J., assignor.)
 Maze, Augustus E., Denver, Colo. Producing chlorine products from unsaturated hydrocarbons. No. 1,425,669; Aug. 15.
 Maze, Ralph, Hollister, Calif. Building construction. No. 1,437,114; Nov. 28.
 Mazer, Harry A., Philadelphia, Pa. Coaster. No. 1,406,269; Feb. 14.
 Mazer, Jacob, Philadelphia, Pa. Machine for making plastic blocks. No. 1,437,537; Dec. 5.
 Mazzick, Frank W., North Milwaukee, Wis. Acetylene generator. No. 1,407,943; Feb. 28.
 Mazzick, Frank W., North Milwaukee, Wis. Cabinet ironing board. No. 1,428,967; Sept. 12.
 Mazoch, John B., Weimar, Tex. Adjustable and collapsible table. No. 1,437,670; Dec. 5.
 Mazur, Joe, Monessen, Pa. Figure wheeled toy. No. 1,414,887; May 2.
 Mazur, Samuel, Buffalo, N. Y. Clock. No. 1,402,428; Jan. 3.
 Mazza, John J. (See Conow, Leonard, assignor.)
 Mazzanovich, Anton, Los Angeles, Calif. Window and door clamp. No. 1,434,305; Oct. 31.
 Mazzeri, Peter, Omaha, Nebr. Mute. No. 1,430,175; Sept. 26.
 Mazzetti, Henry R., Bradford, assignor to Taylor Wordsworth and Company, Leeds, York, England. Circular combs of Noble's and the like combing machines. No. 1,437,985; Dec. 5.
 Mazzocco, James, Gallup, N. Mex. Spring wheel. No. 1,404,133; Jan. 17.
 Mazzocco, Leandro, Lynn, Mass. Means for securing the strings of musical instruments. No. 1,416,568; May 16.
 Mazzullo, Edward E., Washington, D. C. Radiator cap. No. 1,429,751; Sept. 19.
 McAbee, Ernest T., Kansas City, Kans. Floor-joist construction form. No. 1,417,614; May 30.
 McAdam, Charles, Co. (See McAdam, C., and Olsen, assignors.)
 McAdam, Charles, and V. O. Olsen, assignors to Charles McAdam Co., Chicago, Ill. Bleaching and cleaning composition. No. 1,434,550; Nov. 7.
 McAdam, Charles, and V. O. Olsen, assignors to Charles McAdam Co., Chicago, Ill. Bleaching and cleaning composition. No. 1,434,551; Nov. 7.
 McAdams C., Los Angeles, Calif. Railway switch. No. 1,435,016; Nov. 7.
 McAdams, William J., and E. A. Spohrer, Pittston, Pa. Pump attachment. No. 1,405,053; Jan. 31.
 McAfee, Almer M., Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa. Manufacturing of gasoline. No. 1,405,054; Jan. 31.
 McAfee, Almer M., Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa. Manufacture of aluminum chloride. No. 1,405,734; Feb. 7.
 McAfee, Almer M., Bayonne, N. J., assignor to Gulf Refining Company, Pittsburgh, Pa. Converting oils. No. 1,424,574; Aug. 1.
 McAfee, William K., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Coil support for dynamo-electric machines. No. 1,427,401; Aug. 29.
 McAleeman Corporation, The. (See Naismith, Donald M., assignor.)
 McAllister, Luther G., Tulsa, Okla. Rail joint. No. 1,435,122; Nov. 7.
 McAllaster, George R., Rochester, N. Y. Bed. No. 1,418,589; June 6.
 McAllaster, George R., Rochester, N. Y. Bed. No. 1,429,150; Sept. 12.
 McAllister, Bert A., Wadsworth, Ohio. Manure loader. No. 1,420,118; June 20.
 McAllister, Daniel E., Pedricktown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Azo-lake color. No. 1,434,619; Nov. 7.
 McAllister, W. B., Company, The. (See Schirmer, William H., assignor.)
 McArdle, Fred W., Boston, Mass. Bending press. No. 1,424,366; Aug. 1.
 McArdle, James A., Bremerton, Wash. Mining apparatus. No. 1,410,939; Mar. 28.
 McArdle, James J., Pawtucket, R. I. Windmill. No. 1,439,316; Dec. 19.
 McArthur, Clyde E. (See Schmidt, J. E., and McArthur.)
 McArthur, Finley, Cedar Rapids, Iowa. Watering device. No. 1,413,675; Apr. 25.
 McArthur, Robert C., et al., trustees. (See McArthur, Robert C., assignor.)

- McArthur, Robert C., Sand Springs, Okla., assignor to W. O. Fredrikson, A. E. Krieger, and R. C. McArthur, trustees, Salamanca, N. Y. Brake-rod adjuster. No. 1,423,235; July 18.
- McAuliffe, John W., Pelham, N. Y. Safety razor and stropper. No. 1,411,287; Apr. 4.
- McAuly, Arthur W., Oakmont, Pa. Electric brake. No. 1,407,207; Feb. 21.
- McAvity, T., & Sons, Limited. (See Stewart, Thomas M., assignor.)
- McBee Binder Company. (See McBee, Charles F., assignor.)
- McBee, Charles F., Athens, Ohio, assignor to The McBee Binder Co. Back for loose-leaf files. No. 1,405,602; Feb. 7.
- McBee, Charles F., assignor to McBee Binder Company, Athens, Ohio. Lock for binders. No. 1,418,314; June 6.
- McBee, Charles F., Athens, Ohio. Index book for filing systems. No. 1,418,315; June 6.
- McBee, Charles F., Athens, Ohio, assignor to The McBee Binder Co. Loose-leaf binder. No. 1,435,170; Nov. 14.
- McBrian, Robert D., Ripon, Calif. Oil-test-cock operating means for Ford cars. No. 1,420,119; June 20.
- McBride, Charles C., Sanger, Calif. Amalgamating cell. No. 1,430,091; Sept. 26.
- McBride, Jesse E., assignor to Palmer-Bee Company, Detroit, Mich. Conveyer. No. 1,418,590; June 6.
- McBride, Thomas J., Christchurch, New Zealand. Air gravity seeding device for drills and other sowing implements. No. 1,407,795; Feb. 28.
- McBride, Thomas J., Christchurch, New Zealand. Seeding machine. No. 1,407,796; Feb. 28.
- McBride, William S., Caldwell, Ohio. Drilling device. No. 1,424,109; July 25.
- McBrien, Robert J., Eastland, Tex. Cooker. No. 1,420,562; June 20.
- McBrier, Frederick B. (See Armstrong, Edwin J., assignor.)
- McCa, David G., Palo Alto, Calif., assignor of one-half to Cornelius D. Ehret, Philadelphia, Pa. Signaling method and apparatus. No. 1,423,345; July 18.
- McCa, David G., Lancaster, Pa. Microphone. No. 1,435,719; Nov. 14.
- McCabe, Edward T., Cleveland, Ohio. Street register or indicator. No. 1,409,874; Mar. 14.
- McCabe, Frank A., Blackfoot, Mont. Lock. No. 1,431,316; Oct. 10.
- McCabe, Frank E., Chagrin Falls, assignor to The Grabler Manufacturing Company, Cleveland, Ohio. Bung bushing. No. 1,413,989; Apr. 25.
- McCabe, Horace B., assignor to Gisholt Machine Company, Madison, Wis. Time-recording register. No. 1,403,044; Jan. 10.
- McCabe, Hugh, Lawrence, Mass. Flanging machine. No. 1,408,106; Feb. 28.
- McCabe, Roy P., Moncton, New Brunswick, Canada. Rail joint. No. 1,437,253; Nov. 28.
- McCabe, Thomas, Yorkville, Ohio. Plate-lifting mechanism for hot mills. No. 1,418,815; June 6.
- McCafferty, Harold J., New York, N. Y. Vehicle top support and holder. No. 1,437,531; Dec. 5.
- McCafferty, James E., Newark, N. J. Wrench. No. 1,412,290; Apr. 11.
- McCafferty, James E., Newark, N. J. Screw driver. No. 1,423,722; July 25.
- McCafferty, James E., et al. (See McGee, Eugene H., assignor.)
- McCaffray, Edmund. (See Stenger, J. B., McCaffray, and Oyler.)
- McCaffrey, Aubrey L., New York, N. Y., and J. G. Manning, New Brunswick, N. J. Aeroplane. No. 1,413,749; Apr. 25.
- McCahon, Thomas S., Fort Worth, Tex. Tank for combustible liquids. No. 1,413,043; Apr. 18.
- McCain, Elvin B., Hershey, Nebr. Beet toppler. No. 1,412,696; Apr. 11.
- McCain, George L., assignor to Packard Motor Car Company, Detroit, Mich. Lever-locking means. No. 1,403,557; Jan. 17.
- McCain, George L., assignor to Packard Motor Car Company, Detroit, Mich. Gear-driving mechanism. No. 1,434,620; Nov. 7.
- McCain, William E., Erie, Pa. Grading machine. No. 1,406,743; Feb. 14.
- McCaleb, Albert G. (See Glaser, William, assignor.)
- McCall Company, The. (See Hutter, Francis, assignor.)
- McCall, Daniel B., Moscow, Tex. Road-working machine. No. 1,410,585; Mar. 28.
- McCallin, Francis R., Long Island City, N. Y. Automobile fender. No. 1,436,511; Nov. 21.
- McCallister, Arthur W., Baird, Okla. Working barrel for wells. No. 1,432,768; Oct. 24.
- McCallister, Edgar W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Power-developing apparatus. No. 1,402,875; Jan. 10.
- McCallum, Alexander, Menominee, Mich. Interchangeable tool-holder ferrule. No. 1,407,663; Feb. 21.
- McCallum, Angus, Pontiac, Mich. Road scraper. No. 1,404,038; Jan. 17.
- McCallum, Clifford N., assignor to Skinner and Eddy Shipbuilding Co., Seattle, Wash. Pneumatic frame bender. No. 1,410,691; Mar. 28.
- McCallum, Herbert A., Yonkers, N. Y. View finder for cameras. No. 1,437,765; Dec. 5.
- McCallum, Minnie E. (See Raffel, Adolph, assignor.)
- McCallus, John P., Weatherly, Pa. Valve silencer. No. 1,424,205; Aug. 1.
- McCamant, George G., Mattoon, Ill. Starching machine. No. 1,435,215; Oct. 24.
- McCandless, Frank J., Allerton, Iowa. Starter for internal-combustion engines. No. 1,419,461; June 15.
- McCandless, Harry B., St. Louis, Mo. Shackle. No. 1,407,942; Feb. 28.
- McCandless, Harry B., St. Louis, Mo. Pivot joint for rods and the like. No. 1,435,017; Nov. 7.
- McCandless, J. Victor. (See Camfield, Earthen H., assignor.)
- McCandless, Lewis W., Chicago, Ill. Pencil lead. No. 1,405,791; Feb. 7.
- McCandlish, R. C., as trustee. (See Smith, William B., assignor.)
- McCandlish, R. C., et al. (See Smith, William B., assignor.)
- McCann, Felix H. (See Schmidt, Gustave A., assignor.)
- McCann, Frank, North Battleford, Saskatchewan, Canada. Shock-forming machine. No. 1,429,603; Sept. 19.
- McCann, Robert B. (See Cutrona, D. J., McCann, and Bissell.)
- McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,407,289; Feb. 21.
- McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signal. No. 1,415,886; May 16.
- McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling system. No. 1,418,663; June 6.
- McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,425,993; Aug. 15.
- McCanna, John F., Devine, Tex. Gun-barrel cleaner. No. 1,435,647; Nov. 14.
- McCargar, Elmer E., assignor of one-half to John A. Gay, St. Joseph, Mo. Griddle. No. 1,410,818; Mar. 28.
- McCarn, Harry H., Seattle, Wash. Dry-pipe valve. No. 1,420,269; June 20.
- McCarren, Joseph G., Rockford, Ill. Pot for use in annealing and carbonizing metals. No. 1,406,744; Feb. 14.
- McCarroll, William J., Melrose Park, Pa. Means for automatically regulating the draft in locomotive boilers. No. 1,437,766; Dec. 5.
- McCart, Thomas, Spokane, Wash. Bag holder. No. 1,414,575; May 2.
- McCart, Charles, Decatur, Ill. Vise. No. 1,413,676; Apr. 25.
- McCarthy, Andrew E. (See Steele, L. J., Martin, and McCarthy.)
- McCarthy, Charles H. (See McGrath, J. D., and McCarthy.)
- McCarthy, Charles S., jr., Sandusky, Ohio, assignor, by mesne assignments, to The Motor Macultivator Company, Toledo, Ohio. Motor cultivator. No. 1,437,667; Dec. 5.
- McCarthy, Edward F., assignor to The Ramo Manufacturing Company, Chicago, Ill. Shock absorber for automobiles. No. 1,434,017; Oct. 31.
- McCarthy, Florence, assignor of one-half to J. Wile, New York, N. Y. Apparatus for enveloping mailing matter. (Reissue.) No. 15,385; June 13.
- McCarty, George F., San Jose, Calif. Routing tool. No. 1,439,829; Dec. 26.
- McCarthy, James, Long Island City, assignor to Hall Borchert Dress Form Company, New York, N. Y. Dress form. No. 1,425,877; Aug. 15.
- McCarthy, Jerome F., Brooklyn, N. Y. Providing tree cavities with molalithic filling. No. 1,414,195; Apr. 25.
- McCarthy, John H., Spokane, Wash. Rotary gas engine. No. 1,439,629; Dec. 19.
- McCarthy, Joseph B., Copper Cliff, Ontario, Canada. Concentrator. No. 1,417,189; May 23.
- McCarthy, Michael. (See Lichtenberg, F., and McCarthy.)
- McCarthy, Michael M. (See Lichtenberg, F., and McCarthy.)
- McCarthy, Thomas E., Two Harbors, Minn. Car coupling. No. 1,416,368; May 16.
- McCarthy, Thomas J., Newark, N. J. Engine primer for automobiles. No. 1,418,591; June 6.
- McCarthy, Thomas J., Lawndale, Calif., assignor to Auto Lift and Carrier Company, Phoenix, Ariz. Autotruck. No. 1,419,067; June 6.
- McCarthy, William F., Springfield, Mass. Paper-finishing machine. No. 1,428,852; Sept. 12.
- McCarthy, William J., Rochelle Park, N. J. Vignetting tool. No. 1,422,773; July 11.
- McCartin, John J., Rockville, Conn. Metatarsal-arch support. No. 1,416,103; May 16.
- McCartney, Elmer B., assignor to Tow Motor Company, Minneapolis, Minn. Cultivator-tooth fastening. No. 1,415,102; May 9.
- McCartney, Elmer B., assignor to Toro Motor Company, Minneapolis, Minn. Mounting for traction drive wheels. No. 1,418,948; June 6.
- McCartney, James B., assignor of one-fourth to E. F. Richman and one-fourth to C. J. Richman, Muscatine, Iowa. Paint composition. No. 1,421,970; July 4.
- McCarty, Bert, Tampa, Fla. Hydrochemical cleaner. No. 1,421,971; July 4.

Alphabetical list of patentees—Continued.

- McCarty, Bert, Tampa, Fla. Watch and jewelry cleaner. No. 1,426,400; Aug. 22.
- McCarty, Elonzo C. Stockton, Calif. Window. No. 1,410,487; Mar. 21.
- McCarty, Homer B., assignor to O-K Elevator Safety Lock Company, Ogden, Utah. Door lock. No. 1,423,484; July 18.
- McCarty, Roy A., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Collector ring. No. 1,404,871; Jan. 31.
- McCarty, Thomas D., Hawk Point, Mo. Railway tie. No. 1,425,783; Aug. 15.
- McCarty, William B., Jackson, Miss. Self-serving store. (Reissue.) No. 15,368; May 30.
- McCash, Perry V., and M. C. Levinson, Seattle, Wash., assignor, by mesne assignments, to F. D. Fitts, Selah, Wash. Automatic electric controller. No. 1,436,970; Nov. 28.
- McCaskey, John T., Boone, Iowa. Turnbuckle wrench. No. 1,414,889; May 2.
- McCasland, Charles O., St. Louis, Mo. Liquid-dispensing machine. No. 1,420,327; June 20.
- McCaslin, John. (See Hoffman, C. C., and McCaslin.)
- McCaslin, Morie E., Evans City, Pa. Power-transmission mechanism. No. 1,402,627; Jan. 3.
- McCaughy, Joseph W., Geneva, Ohio. Polishing composition. No. 1,407,074; Feb. 21.
- McCauley, Ernest G., Dayton, Ohio. Synchronizing mechanism for reversible-pitch propellers. No. 1,427,830; Sept. 5.
- McCauley, Robert E., Stockton, Calif. Scraper. No. 1,410,204; Mar. 21.
- McCauley, Robert E., assignor to J. M. Conley Company, Inc., Stockton, Calif. Scraper. No. 1,402,078; Jan. 3.
- McCauley, Charles G., Jacksonville, Fla. Railway-switch mechanism. No. 1,437,900; Dec. 5.
- McCaw, Hattie, Walla Walla, Wash. Scissors. No. 1,433,391; Oct. 24.
- McCay, Newton J., Coalinga, Calif. Heavy-duty belt adjuster. No. 1,414,428; May 2.
- McChesney, John S., Chicago, Ill. Seal for packages. No. 1,408,897; Mar. 7.
- McClain, John A. (See Weightman, Charles W., assignor.)
- McClain, John B., assignor of one-fifth to R. Meier, Brooklyn, N. Y. Melting pot. No. 1,423,501; July 18.
- McClaire, Katherine, Chicago, Ill. Curler. (Reissue.) No. 15,363; May 23.
- McClanahan, Thomas G., Seattle, Wash. Trolling lure. No. 1,422,457; July 11.
- McClarran, George T., Greensburg, Pa. Gear remover or pinion puller. No. 1,417,265; May 23.
- McClatchie, Lewis R., Penetanguishene, Ontario, Canada. Electric heating unit. No. 1,431,407; Oct. 10.
- McClay, David O., et al., trustees. (See Stevens, H. R., Rockwell, and Howe, assignors.)
- McCleary, Henry R., assignor to Boorum & Pease Company, New York, N. Y. Advertising and display case. No. 1,416,566; May 16.
- McClellan, Benjamin S., assignor to McClellan Refrigerating Company, Chicago, Ill. Electric switch and actuating mechanism therefor. No. 1,401,997; Jan. 3.
- McClellan, James L., Brookline, Mass. Softening shoe stiffeners. No. 1,408,816; Mar. 7.
- McClellan, John, assignor of one-half to D. B. Wiggins, Philadelphia, Pa. Combined spark timer and oil pump. No. 1,422,725; July 11.
- McClellan, Orla E. (See Wignall, J. S., Jr., and McClellan.)
- McClellan Refrigerating Company. (See McClellan, Benjamin S., assignor.)
- McClellan, Thomas M., et al. (See Scruby, George E., assignor.)
- McClellan, Walter N., assignor of forty-five per cent to Gladstone H. Hinkson, Brooklyn, N. Y. Car-door-actuating mechanism. (Reissue.) No. 15,338; Apr. 18.
- McClelland, Charles S., Pittsburgh, Pa. Pump. No. 1,424,928; Aug. 8.
- McClelland, John, Philadelphia, Pa. Combined spark timer and oil pump. No. 1,414,823; May 2.
- McClelland, William H. M., Jr., Wilksburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,414,143; Apr. 25.
- McClenahan, Francis M., Oakmont, Pa. Recovery of metals from silicates. No. 1,426,890; Aug. 22.
- McClenahan, Francis M., Oakmont, Pa. Recovering metals from silicates. No. 1,426,891; Aug. 22.
- McClenathen, Robert, Cuyaboga Falls, assignor to Kelly-Springfield Tire Company, Akron, Ohio. Trimming device. No. 1,408,016; Feb. 28.
- McClenathen, Robert, assignor to Kelly-Springfield Tire Company, Akron, Ohio. Molding machine. No. 1,423,349; July 18.
- McClenathen, Robert, assignor to Kelly-Springfield Tire Company, Akron, Ohio. Molding machine. No. 1,427,217; Aug. 29.
- McClimon, Jay S. (See Rogers, J. F., and McClimon.)
- McClintock, Edward, St. Paul, Minn. Shock absorber. No. 1,404,458; Jan. 24.
- McClintock, James L., Wichita, Kans. Antirattling device. No. 1,439,113; Dec. 19.
- McClintock, Lewis G., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Transformer tank. No. 1,408,215; Feb. 28.
- McClintock, Lewis G., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Welding. No. 1,425,529; Aug. 15.
- McClinton, Theophilus H. (See Drummond, Theodore E., assignor.)
- McClokey, James F., assignor to Ford & Manion, Wilmington, Del. Immersion heater. No. 1,438,121; Dec. 5.
- McCloskey, Frederick W., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Axle collar for railway motors. No. 1,409,745; Mar. 14.
- McCloskey, Louis J. (See Phillips, R. F., and McCloskey.)
- McLung, Homer W., Barryton, Mich. Nutcracker. No. 1,412,249; Apr. 11.
- McClure, Elmer P., Western Springs, Ill. Polishing machine. No. 1,425,666; Aug. 15.
- McClure, Henry C., Los Angeles, Calif. Wall tie and form holder. No. 1,437,323; Nov. 28.
- McClure, Rodney N., Los Angeles, Calif. Record holder. No. 1,429,151; Sept. 12.
- McClure, Rodney N., Los Angeles, Calif. Tire. No. 1,436,594; Nov. 21.
- McClure, Rodney N., Los Angeles, Calif. Record holder. No. 1,437,254; Nov. 28.
- McClure, Rodney N., Los Angeles, Calif. Airless vehicle tire. No. 1,438,604; Dec. 12.
- McClure, Royal A., et al., trustees. (See Stevens, H. R., Rockwell, and Howe, assignors.)
- McClure, Silas. (See Palmer, Stanley W., assignor.)
- McClure, Silas, Beaver Dam, Wis. Latch for oven doors. No. 1,413,990; Apr. 25.
- McClure, Silas, Beaver Dam, Wis. Stove and range. No. 1,428,853; Sept. 12.
- McClure, William R., Chicago, Ill. Vegetable slicer. No. 1,429,896; Sept. 19.
- McClurg, John S., New York, N. Y., assignor, by mesne assignments, to Carlisle Tire Corporation. Tire mold. No. 1,437,433; Dec. 5.
- McClusky, Frank R., Canfield, Ohio. Manifolding sheet. No. 1,423,808; July 25.
- McClusky, Joseph. (See Vossbeck, A. J., and McClusky.)
- McCollough, James H., Jr., San Jose, Calif. Automobile seat. (Reissue.) No. 15,396; July 4.
- McCollough, W. A., & Sons. (See McCollough, William A., assignor.)
- McCollough, William A., assignor to W. A. McCollough & Sons, Inc., Webster City, Iowa. Individual watering trough. No. 1,413,750; Apr. 25.
- McCollough, William A., assignor to W. A. McCollough & Sons, Inc., Webster City, Iowa. Chick feeder. No. 1,415,376; May 9.
- McCollum, Alfred F., assignor to The Magee Carpet Co., Bloomsburg, Pa. Pile wire. No. 1,405,239; Jan. 31.
- McCollum, Charles R., Brooklyn, N. Y. Draft regulator for furnaces. No. 1,434,902; Nov. 7.
- McCollum, Clarence R., assignor of one-half to F. R. Boyesen, Oakland, Calif. Closure-operating device. No. 1,406,468; Feb. 14.
- McCollum, Earl E., Downers Grove, Ill. Speed-reducing mechanism. No. 1,431,167; Oct. 10.
- McCollum, Thomas E., Winona, Ontario, Canada. Draft device for tractors and the like. No. 1,408,107; Feb. 28.
- McCombs, Charles C., Stephenville, Tex. Check protector. No. 1,423,236; July 18.
- McConahey, Samuel C., administrator. (See Turner, Walter V.)
- McConley, Robert E., Whitcomb, Wis. Snowplow. No. 1,406,993; Feb. 21.
- McConnell, Charles W., et al., trustees. (See Melcher, George S., assignor.)
- McConnell, Edward H., Roanoke, Va. Apparatus for handling materials. No. 1,407,333; Feb. 21.
- McConnell, Grover C. (See Routt, O. L., McConnell, and Glaze.)
- McConnell, Harry R. (See House, T. M., and McConnell.)
- McConnell, Henry C., Grand River, Iowa. Train-operated gate. No. 1,421,512; July 4.
- McConnell, John, assignor to Interstate Iron and Steel Company, Chicago, Ill. Making alloy steel. No. 1,420,328; June 20.
- McConnell, John H., Red Lion, Pa. Tire pump. No. 1,432,196; Oct. 17.
- McConnell, Walter B., Philadelphia, Pa. Ink-bottle holder. No. 1,417,081; May 23.
- McConney, Robert B., assignor of sixteen and two-thirds one-hundredths to D. C. Gates, Denver, Colo. Automatically-operating hydropneumatic water-lifting apparatus. No. 1,421,513; July 4.
- McConochy, Homer J. (See Mark, F. H., and McConochy.)
- McConville, Edward, Philadelphia, Pa. Resilient wheel. No. 1,418,723; June 6.
- McConway & Torley Company, The. (See Buhoup, Harry C., assignor.)
- McConway & Torley Company, The. (See George, Enoch, Jr., assignor.)
- McConway & Torley Company, The. (See Kelso, William, assignor.)
- McConway & Torley Company, The. (See McConway, William, Jr., assignor.)
- McConway & Torley Company, The. (See Milliken, I. H., and Regan, assignors.)
- McConway & Torley Company, The. (See Milliken, Isaac H., assignor.)
- McConway & Torley Company, The. (See Regan, William J.)

- McConway & Torley Company, The. (See Reynolds, Thomas A., assignor.)
- McConway & Torley Company, The. (See Ritter, Gilbert P., assignor.)
- McConway, William, Jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Car coupling. No. 1,404,872; Jan. 31.
- McCook, Peter, Winnipeg, Manitoba, Canada. Antiskid device for automobiles. No. 1,406,403; Feb. 14.
- McCool, James H., Ellsworth, Kans. Attachment for pool tables. No. 1,427,691; Aug. 29.
- McCool, William A., Beaver Falls, Pa. Making bricks. No. 1,427,831; Sept. 5.
- McCord, Alvin C., assignor to McCord & Company, Chicago, Ill. Journal box. No. 1,403,613; Jan. 17.
- McCord, Harry C., Baltimore, Md. Knee rest. No. 1,409,746; Mar. 14.
- McCord, William P., Bemis, Tenn. Mail-bag catcher and deliverer. No. 1,409,349; Mar. 14.
- McCord & Company. (See McCord, Alvin C., assignor.)
- McCorkel, Harry, Laporte, Ind. Appliance for foundry molds. No. 1,405,929; Feb. 7.
- McCormack, Harry, Chicago, Ill. Manufacture of resorcinol. No. 1,406,745; Feb. 14.
- McCormick, Elbert R., (See Gauntt, Warren S., assignor.)
- McCormick, Herbert S., Alameda, and A. Glauber, Oakland, Calif. Combined inflating valve and gage. No. 1,403,797; Jan. 17.
- McCormick, Herbert S., Alameda, and A. Glauber, Oakland, Calif. Automobile steering-wheel lock. No. 1,411,047; Mar. 28.
- McCormick, Laurel. (See Laycock, John G., assignor.)
- McCormick, Lloyd C. (See Harris, H. S., Waite, and McCormick.)
- McCormick, Merton H., Benford, Tex. Saw-relieving device. No. 1,409,875; Mar. 14.
- McCosh, Joseph R., Casper, Wyo. Dirigible headlight. No. 1,411,048; Mar. 28.
- McCoskrie, Reuben G., Goodland, Kans. Sleeve support for coil springs. No. 1,411,049; Mar. 28.
- McCoy, Alfred F. (See Allen, A. F., McCoy, and Sternberger.)
- McCoy, Charles C., Portland, Oreg. Automatic pipe wrench. No. 1,418,816; June 6.
- McCoy, Fred H., Burlington, Vt. Seam. No. 1,426,892; Aug. 22.
- McCoy, James C., New York, N. Y. Fishing chair. No. 1,406,571; Feb. 14.
- McCoy, James D. (See Herkel, J. W., and McCoy.)
- McCoy, James P. A., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Plastic composition and articles formed therefrom. No. 1,425,784; Aug. 15.
- McCoy, John P., Philadelphia, Pa. Shaking machine. No. 1,409,052; Mar. 7.
- McCoy, John S. (See Edinger, G. B., and McCoy.)
- McCoy, Joseph H. (See Birchman, A., Matter, and McCoy.)
- McCoy, Michael J., Papillion, Nebr. Combined plow and packer. No. 1,412,950; Apr. 18.
- McCoy, Robert E., Alliance, Ohio. Return envelope. No. 1,438,122; Dec. 5.
- McCoy, Walter J., Omaha, Nebr. Cement-block machine. No. 1,438,448; Dec. 12.
- McCoy, William C., Wilkinsburg, Pa. Ore concentrator. No. 1,423,130; July 18.
- McCoy, William D., Brooklyn, N. Y., assignor to The National Cash Register Company, Dayton, Ohio. Check issuing and printing mechanism. No. 1,435,171; Nov. 14.
- McCracken, George B., Willimantic, Conn. Reamer. No. 1,431,015; Oct. 3.
- McCracken, Isaac E., Pittsburgh, Pa. Bumper. No. 1,413,283; Apr. 18.
- McCracken, James D., Cincinnati, assignor to The United States Playing Card Company, Norwood, Ohio. Paper-conveying mechanism. No. 1,424,952; July 25.
- McCracken, Samuel H., New Kensington, Pa., assignor to Remington Accounting Machine Corporation, New York, N. Y. Attachment for accounting machines. (Reissue.) No. 15,319; Mar. 28.
- McCracken, William A., Joliet, Ill. Aeroplane. No. 1,436,182; Nov. 21.
- McCrae, George, Brantford, Ontario, Canada. Cylindrical drier and cooler. No. 1,409,350; Mar. 14.
- McCrary, Joseph H., and C. A. Russ, Tulsa, Okla. Attachment for refrigerating machines. No. 1,414,032; Apr. 25.
- McCrary, Pierce R., East Norwalk, Conn. Apparatus for abstracting heat from fluids. No. 1,432,705; Oct. 17.
- McCready, Joseph H. (See Cornwell, E. E., and McCready.)
- McCready, William F., assignor to The Koreshan Unity, Estero, Fla. Beehive. No. 1,402,169; Jan. 3.
- McCreary, Gilbert A., Edinburg, Pa. Wheeled toy. No. 1,417,190; May 23.
- McCredie, Reid J., Buffalo, N. Y. Radiator. No. 1,407,554; Feb. 21.
- McCroby, William, Detroit, Mich. Ironing board. No. 1,435,407; Nov. 14.
- McCrosky, Frederick B. (See Tweeddale, J., and McCrosky.)
- McCrudden, John C. R., Hurstville, near Sydney, New South Wales, Australia. Machine gun. No. 1,406,404; Feb. 14.
- McCrudden, John C. R., Hurstville, near Sydney, New South Wales, Australia. Magazine for machine guns. No. 1,425,120; Aug. 8.
- McCrudden, William J. (See Cox, Herbert S., assignor.)
- McCulla, William R., assignor to The Wills-Overland Company, Toledo, Ohio. Engine-testing apparatus. No. 1,427,218; Aug. 29.
- McCulloch, Eldrige V., Hutchinson, Kans. Intake heater for gasoline engines. No. 1,406,048; Feb. 7.
- McCulloch, Leon M., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Acid-proof varnish. No. 1,411,050; Mar. 28.
- McCulloch Manufacturing Company. (See Jessen, John A., assignor.)
- McCulloch, Peter J., Orange, N. J. Ash-sifting shovel. No. 1,436,271; Nov. 21.
- McCulloch, Samuel, assignor to C. A. Mullen, San Francisco, Calif. Double-seaming machine. No. 1,424,499; Aug. 1.
- McCulloch, Samuel, assignor to C. A. Mullen, San Francisco, Calif. Cooker. No. 1,424,500; Aug. 1.
- McCullough, Elzadore S. (See Schaefer, W. K., Greer, and McCullough.)
- McCullough, Frederick S., assignor to G. L. Martin, Cleveland, Ohio. Apparatus for directive transmission of electromagnetic waves. No. 1,403,700; Jan. 17.
- McCullough, Frederick S., assignor to G. L. Martin, Cleveland, Ohio. Relay for wireless-signaling systems. No. 1,403,701; Jan. 17.
- McCullough, Frederick S., assignor to G. L. Martin, Cleveland, Ohio. Radiotelephony. No. 1,427,832; Sept. 5.
- McCullough, Frederick S., assignor to G. L. Martin, Cleveland, Ohio. Radiotelegraphy. No. 1,427,833; Sept. 5.
- McCullough, Ira J., Tucson, Ariz. Well drill. No. 1,424,662; Aug. 1.
- McCullough, John E., Maywood, Ill. Ladle-nozzle-protecting device. No. 1,406,746; Feb. 14.
- McCullough, Maude M. (See Peterson, Swan O., assignor.)
- McCullough, William, Howe, Nebr. Spoke-forming device. No. 1,425,785; Aug. 15.
- McCullough, William C. (See White, O. M., and McCullough.)
- McCullough, William D., Detroit, Mich. Clutch. No. 1,425,994; Aug. 15.
- McCullough, William D., Detroit, Mich. Pliers. No. 1,428,600; Sept. 12.
- McCune, Roy A., East Pittsburgh, Pa. Car pusher. No. 1,410,022; Mar. 21.
- McCune, Samuel A., Centerville, Iowa. Formula for paint. No. 1,411,971; Apr. 4.
- McCurdy, Ralph G., Cresskill, N. J., assignor to American Telephone and Telegraph Company. Testing apparatus. No. 1,421,702; July 4.
- McCurdy, Sanford M., Ada, Ohio. Feeding device for poultry. No. 1,410,689; Mar. 28.
- McCurry, James M., San Luis Obispo, Calif. Hollow concrete wall block construction. No. 1,417,399; May 23.
- McCutchen, Brunson S., North Plainfield, N. J. Wringer. No. 1,429,246; Sept. 19.
- McCutchen, Brunson S., North Plainfield, N. J. Wringer frame. No. 1,435,932; Nov. 21.
- McCutchen, Brunson S., Plainfield, N. J. Washing machine. No. 1,433,216; Oct. 24.
- McCutchen, Brunson S., Plainfield, N. J. Wringer. No. 1,435,933; Nov. 21.
- McCutchen, Charles G. (See Baker, Arthur R., assignor.)
- McCutcheon, Everett N., et al. (See Van Sant, William S., assignor.)
- McDade, James E., Chicago, Ill. Educational-test device. No. 1,436,997; Nov. 28.
- McDaniel, Alonzo S., New York, assignor to Eastman Kodak Company, Rochester, N. Y. Antistatic photographic film. No. 1,431,894; Oct. 10.
- McDaniel, William, Collinsville, Ill. Building block. No. 1,435,865; Nov. 14.
- McDaniels, Frank A., Portland, Oreg. Tractor control. No. 1,413,414; Apr. 18.
- McDermott, Charles J., New York, N. Y. Golfing appliance. No. 1,431,968; Oct. 17.
- McDermott, Frank A., Washington, D. C., and R. Glasgow, Pittsburgh, Pa., assignor, by mesne assignments, to The Fleischmann Company. Manufacture of butyric acid. No. 1,405,055; Jan. 31.
- McDermott, Henry, Leadville, Colo. Multiple-rim resilient wheel. No. 1,424,252; Aug. 1.
- McDermott, John M. (See Wenterwest, Joseph F., assignor.)
- McDill, Rex D. O., Haines City, Fla., assignor to W. E. Richardson, Beaufort, S. C. Fruit cleaning and brushing machine. No. 1,417,266; May 23.
- McDonald, Albert L., Woodlawn, Pa. Mining tool. No. 1,427,609; Aug. 29.
- McDonald, Angus, New Glasgow, assignor of one-third to H. Putnam, Truro, and one-third to C. T. Conrad, Halifax, Nova Scotia, Canada. Railway fish-plate, spike, and nut lock. No. 1,408,374; Feb. 28.
- McDonald, Arthur, Vancouver, British Columbia, Canada. Wrench. No. 1,417,756; May 30.
- McDonald, Arthur, Muscatine, Iowa. Bandit-proof booth. No. 1,440,307; Dec. 26.
- McDonald, Charles A., DuBois, Pa. Gravity unloader. No. 1,409,053; Mar. 7.
- McDonald, Charles D., Seattle, Wash. Portable folding bed. No. 1,405,141; Jan. 31.

Alphabetical list of patentees—Continued.

- McDonald, Charles D., and C. E. Ennes, assignors to The McDonald Machine Company, Chicago, Ill. Can-end-feeding mechanism. No. 1,408,617; Mar. 7.
- McDonald, Charles H., Springfield, Ohio. Picket alarm. No. 1,434,132; Oct. 31.
- McDonald, Edmund, Baltimore, Md. Wrench. No. 1,434,552; Nov. 7.
- McDonald, Edward. (See Cockburn, D., and McDonald.)
- McDonald, Elijah D., Los Angeles, Calif. Deep-well pump. No. 1,422,588; July 11.
- McDonald, Frank W. New Brighton, Pa. Dipping machine. No. 1,404,309; Jan. 24.
- McDonald, George R., Brooklyn, N. Y. Illuminated sign for conveyances. No. 1,430,823; Oct. 3.
- McDonald, Harry M. (See Robinson, R. M., and McDonald.)
- McDonald, J. J. (See Grace, Henry S., assignor.)
- McDonald, James, and G. P. Haynes, assignors to Todd Shipyards Corporation, New York, N. Y. Steam-atomizing fuel-oil burner. No. 1,428,896; Sept. 12.
- McDonald, John H., Decatur, Ill. Making gas. (Reissue.) No. 15,320; Mar. 28.
- McDonald, Leslie R., Montreal, Quebec, Canada. Stereoscopic X-ray apparatus. No. 1,438,500; Dec. 12.
- McDonald Machine Company, The. (See McDonald, C. D., and Ennes, assignors.)
- McDonald, Martin A., Oakland, Calif. Playing hoop. No. 1,429,681; Sept. 19.
- McDonald, Samuel R., Denver, Colo. Refuse receiver. No. 1,413,751; Apr. 25.
- McDonald, Sylvester. (See Lewis, R. W., and McDonald.)
- McDonald, Thomas, Youngstown, Ohio. Blast-furnace-charging apparatus. No. 1,433,633; Oct. 31.
- McDonald, Thomas J., Knoxville, Tenn. High-pressure boiler for traction use and other uses. No. 1,417,615; May 30.
- McDonald, William, Kansas City, Mo. Steam-radiator vent. No. 1,424,663; Aug. 1.
- McDonald, William B., Lawrence, Kans. Adjustable hinge. No. 1,423,350; July 18.
- McDonell, George B., and E. L. Peck, Bartlesville, Okla., assignors, by mesne assignments, to Doherty Research Company, New York, N. Y. Bailor. No. 1,426,305; Aug. 15.
- McDonell, William E., assignor to Shur-On Optical Company, Inc., Rochester, N. Y. Ophthalmic mounting. No. 1,439,741; Dec. 26.
- McDonnell, George P., St. Louis, Mo. Safety device for elevators. No. 1,408,459; Mar. 7.
- McDonnell, George P., St. Louis, Mo. Fluid-actuated circuit controller. No. 1,428,645; Sept. 12.
- McDonnell, M. J. (See Hodgson, Isaac W., assignor.)
- McDonough, Joseph G., Eau Claire, Wis. Lumber-grading machine. No. 1,436,998; Nov. 28.
- McDonough, Robert H., Detroit, Mich. Transmission lock for motor vehicles. No. 1,405,603; Feb. 7.
- McDougal, Douglas C., U. S. Marine Corps, assignor of one-half to H. C. Wilson, New York, N. Y. Rifle sight. No. 1,407,208; Feb. 21.
- McDougal, Taine G., assignor to Champion Ignition Company, Flint, Mich. Burning ceramic wares and apparatus therefor. No. 1,416,726; May 23.
- McDougal, Taine G., assignor to Champion Ignition Company, Flint, Mich. Burning ceramic wares. No. 1,416,727; May 23.
- McDougal, Taine G., assignor to Champion Ignition Company, Flint, Mich. Spark-plug insulator. No. 1,434,133; Oct. 31.
- McDougal, Taine G., and S. J. McDowell, assignors to Champion Ignition Company, Flint, Mich. Synthetic jewel bearing. No. 1,422,216; July 11.
- McDougal, Taine G., and S. J. McDowell, Flint, Mich., assignors to Champion Ignition Company, Flint, Mich. Synthetic-jewel bearing. No. 1,438,188; Dec. 12.
- McDougall, Alexander, Duluth, Minn. Ore-washing device. No. 1,409,385; Mar. 14.
- McDougall, Alexander, Duluth, Minn. Vessel for and method of forming defense fortifications. No. 1,435,018; Nov. 7.
- McDougall, William A., Forest Hill, England. Means for detecting tilt in aeroplanes. No. 1,412,362; Apr. 11.
- McDowell, Frederick L., Raymond, Wash. Wind and water power wheel. No. 1,413,861; Apr. 25.
- McDowell, John K., et al. (See Fay, Joseph G., assignor.)
- McDowell, Samuel J. (See McDougal, T. G., and McDowell.)
- McDuff, Daniel, Dorchester, Mass. Center and surface testing indicator. No. 1,426,207; Aug. 15.
- McEldowney, Robert, Canton, assignor to M. H. McKenna, Cleveland, Ohio. Dump truck. No. 1,428,293; Sept. 5.
- McElfresh, Joseph W., Agra, Okla. Animal trap. No. 1,436,272; Nov. 21.
- McElhone, Charles, Frederick, S. Dak. Meat-carrying hook and support. No. 1,403,431; Jan. 10.
- McElree, William, Dunkirk, Ohio. Driving mechanism. No. 1,431,168; Oct. 10.
- McElroy, Karl P., assignor to Ferro Chemicals Inc., Washington, D. C. Fixation of nitrogen. No. 1,408,754; Mar. 7.
- McElroy, Karl P., Washington, D. C. Making alcohols. No. 1,438,123; Dec. 5.
- McElroy, William A., San Francisco, Calif. Attachment for artificial arms. No. 1,417,267; May 23.
- McElvaney, Charles T., and W. H. Wilson, Parsons, Kans. Fuel mixer and ejector. No. 1,430,912; Oct. 3.
- McEntire, George P., Topeka, Kans. Covering for mattresses and the like. No. 1,430,913; Oct. 3.
- McEwen, Norman S., Nashville, Tenn. Can opener. No. 1,430,914; Oct. 3.
- McEwen, Willard M. (See Lamb, Charles C., assignor.)
- McEwen, Willard M., Chicago, Ill. Tire-casing filler. No. 1,414,478; May 2.
- McEwen, William, assignor of one-half to W. C. S. Hosking, Waiuku, Auckland, New Zealand. Pneumatic tire. No. 1,422,113; July 11.
- McEwen, William, and W. Robinson, Ballycloughan, Ireland; said Robinson assignor to said McEwen. Flax scutching and dressing apparatus. No. 1,408,460; Mar. 7.
- McFadden, Francis, Baltimore, Md. Demountable solid-tire construction. No. 1,411,922; Apr. 4.
- McFadden, John, South Chicago, Ill. Stopper. No. 1,426,306; Aug. 15.
- McFadden, Merle S. (See Arey, S. E., Hern, and McFadden.)
- McFadden, Robert M., Havana, Ill. Electric well-boring tool. No. 1,419,068; June 6.
- McFaddin, Harrison D., East Orange, N. J. Therapeutic device. No. 1,429,443; Sept. 19.
- McFall, Frank H., Alliance, assignor to S. C. Jessup, Salem, Ohio. Hydrocarbon burner. No. 1,433,392; Oct. 24.
- McFall, James R., Cleveland, Ohio. Resilient wheel. No. 1,416,104; May 16.
- McFall, James R., Cleveland, Ohio. Wheel for power-propelled vehicles. No. 1,424,367; Aug. 1.
- McFall, James R., Cleveland, Ohio. Resilient wheel. No. 1,432,884; Oct. 24.
- McFarland, Charlie M., Wichita Falls, Tex. Automatic pump. No. 1,414,990; May 2.
- McFarland, Clarence R., Marion, Ill. Undergarment. No. 1,422,281; July 11.
- McFarland, Harvey P., Burlington, Iowa, assignor of one-half to C. W. Baldrige, Chicago, Ill. Rail anchor. No. 1,405,604; Feb. 7.
- McFarland, Irvin H., Philadelphia, Pa. Knockdown building construction. No. 1,432,349; Oct. 17.
- McFarland, James W., Los Angeles, Calif. Radiator construction. No. 1,410,531; Mar. 21.
- McFarland, John C. (See Sanborn, A. H., and Stangier, assignors.)
- McFarland, John I. (See Twiss, William J., assignor.)
- McFarland, Lewis F., and P. B. Boden, Wagner, S. Dak. Harrow cart. No. 1,413,044; Apr. 18.
- McFarland, Owen D., Chicago, Ill. Making shingle-simulating roofing strips. (Reissue.) No. 15,489; Nov. 14.
- McFarland, Samuel, Coatesville, Pa. Casting apparatus. No. 1,418,949; June 6.
- McFarland, Samuel, Coatesville, Pa. Casting apparatus. No. 1,434,496; Nov. 7.
- McFarland, Samuel E., Los Angeles, Calif., assignor to Cobb Shockless Crossing Corporation, New York, N. Y. Intersection-operating system. No. 1,407,209; Feb. 21.
- McFarland, William M., Norwich, N. Y., assignor of one-fifth to W. R. Turner, one-fifth to W. E. Eaton, one-fifth to M. C. Eaton, and one-fifth to B. J. Fernald. Trouser supporter. No. 1,421,514; July 4.
- McFarlane, Lauchlan G. (See Carter, G. J., and McFarlane.)
- McFeaters, George H., Johnstown, Pa. Grinder. No. 1,425,121; Aug. 8.
- McFeely, Ronald F., deceased, Beverly, by E. M. Sullivan, administrator, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for shaping uppers to lasts. No. 1,409,190; Mar. 14.
- McFerran, John B., Jr., Louisville, Ky. Power-driven agitating mechanism. No. 1,420,270; June 20.
- McGahan, Frederick L., deceased, Los Angeles, Calif.; V. K. Walker, administrator, assignor to The Purposed Mind Development Security Association of the World. Fire box. No. 1,423,346; July 18.
- McGahan, Frederick L., deceased, Los Angeles, Calif.; V. K. Walker, administrator, assignor to The Purposed Mind Development Security Association of the World. Fire box. No. 1,423,347; July 18.
- McGahan, Frederick L., deceased, Los Angeles, Calif.; V. K. Walker, administrator, assignor to The Purposed Mind Development Security Association of the World. Fan. No. 1,423,348; July 18.
- McGahan, Frederick L., deceased, Los Angeles, Calif.; V. K. Walker, administratrix, assignor to The Purposed Mind Development Security Association of the World. Fuel-control system. No. 1,428,793; Sept. 12.
- McGahan, Frederick L., deceased, Los Angeles, Calif.; V. K. Walker, administratrix, assignor to The Purposed Mind Development Security Association of the World. Condenser. No. 1,432,350; Oct. 17.
- McGahan, Frederick L., deceased, Los Angeles, Calif.; V. K. Walker, administratrix, assignor to The Purposed Mind Development Security Association of the World. Filter. No. 1,432,351; Oct. 17.
- McGahan, Frederick L., deceased, Los Angeles, Calif.; V. K. Walker, administratrix, assignor to The Purposed Mind Development Security Association of the World. Suction means for feeding powdered fuel to fire boxes. No. 1,438,539; Dec. 12.

- McGahey, Robert E., Alexandria, Va. Truck-lever-connecting rod. No. 1,435,720; Nov. 14.
- McGahey, Robert E., Alexandria, Va. Ice pick. No. 1,435,866; Nov. 14.
- McGall, Philip K., West Orange, N. J., and H. R. Menefee, assignors to Western Electric Company, Incorporated, New York, N. Y. Thermionic regulator. No. 1,426,751; Aug. 22.
- McGann, William M., Minneapolis, Minn. Grain-door-forcing device. (Reissue.) No. 15,306; Mar. 14.
- McGann, William H., Minneapolis, Minn. Grain-door-forcing device. (Reissue.) No. 15,397; July 4.
- McGarey, Richard C., Berlin, N. H. Brush. No. 1,420,563; June 20.
- McGarrahan, John F., Congress Park, assignor to J. S. Giles & Sons, Chicago, Ill. Combination cap nozzle with detachable closing cap for cans. No. 1,411,573; Apr. 4.
- McGarrahan, John F., Congress Park, assignor to J. S. Giles & Sons, Chicago, Ill. Double-seal spring cap. No. 1,417,341; May 23.
- McGarrigle, Joseph J. (See Sage, R. V., and McGarrigle.)
- McGarry, George, Youngstown, Ohio. Auto plate and crank holder. No. 1,415,594; May 9.
- McGarvey, Robert W., Sparrows Point, Md. Safety razor. No. 1,418,191; May 30.
- McGarvin, Edgar, Los Angeles, Calif. Illuminated license plate. No. 1,417,400; May 23.
- McGary, Alexander, New York, N. Y. Heating apparatus. No. 1,429,085; Sept. 12.
- McGee, Charles E., Santa Monica, and J. M. Kent, Los Angeles, Calif. Piston head for pumps. No. 1,411,792; Apr. 4.
- McGee, Charles E., Santa Monica, and J. M. Kent, Los Angeles, Calif. Pump. No. 1,411,793; Apr. 4.
- McGee, Eugene H., assignor of one-fourth to F. L. Barchard and one-fourth to J. E. McCaffery, Chicago, Ill. Automatic display sign. No. 1,430,394; Sept. 26.
- McGee, Frank R., and G. W. Vreeland, Steubenville, Ohio. Tower sea cleaner. No. 1,413,126; Apr. 18.
- McGee, Howard H., Waterbury, Conn., assignor to The Goodyear's India Rubber Glove Manufacturing Company. Syringe valve. No. 1,418,592; June 6.
- McGee, James, Newark, Ohio. Rubber heel. No. 1,437,065; Nov. 28.
- McGee, John C., New York, N. Y. Ripping device. No. 1,405,529; Feb. 7.
- McGee, Joseph J. (See Wyble, Stanislaus, assignor.)
- McGee, William E., Chillicothe, Ohio. Sand-separating tank. No. 1,404,873; Jan. 31.
- McGee, William H., and R. S. Berry, Los Angeles, Calif. Automatic control mechanism. No. 1,406,405; Feb. 14.
- McGee, William J. (See Schein, August P., assignor.)
- McGhee, James W., assignor of one-half to E. C. Jinks, Los Angeles, Calif. Curtain-rod bracket. No. 1,403,335; Jan. 10.
- McGhee, James W., assignor of one-half to E. C. Jinks, Los Angeles, Calif. Drapery hook. (Reissue.) No. 15,263; Jan. 10.
- McGhee, John, Glasgow, Scotland. Combined nut and pipe wrench. No. 1,429,517; Sept. 19.
- McGill, Charles E., Binghamton, N. Y. Spindle retainer. (Reissue.) No. 15,272; Jan. 17.
- McGill, Charles E., Binghamton, N. Y. Belt gearing. No. 1,437,767; Dec. 5.
- McGill, Daniel, assignor to Volos Manufacture Limited, London, England. Treatment of fibrous materials. No. 1,421,703; July 4.
- McGill, Daniel F., Portland, Oreg. Sprinkler. No. 1,416,222; May 16.
- McGill Manufacturing Company. (See Despard, Victor R., assignor.)
- McGill Ticket Punch Company. (See Beck, Albert, assignor.)
- McGillivray, Harry, New York, N. Y. Safety device for elevators. No. 1,422,774; July 11.
- McGilton, James, East Hartford, Conn. Traction means for motor-vehicle wheels. No. 1,412,533; Apr. 11.
- McGillivray, John W., and J. Wellersdick, Torrington, Conn. Iron. No. 1,403,432; Jan. 10.
- McGinnis, Baldy, Marshall, N. C. Drawing and spinning apparatus. No. 1,407,555; Feb. 21.
- McGinnis, Ira J., et al. (See Benedict, Earnest H., assignor.)
- McGinnis, John A. (See Paull, A. W., and McGinnis.)
- McGinnis, Walter R., assignor to Pilsory-Becker Engineering & Supply Company, St. Louis, Mo. Apparatus for recovery of gasoline from casing-head gas. No. 1,418,876; June 6.
- McGinnis, William J. (See Peterson, E. A., and McGinnis.)
- McGinty, Hugh L., Pittsburgh, Pa. Sponge cup. No. 1,405,142; Jan. 31.
- McGirr, Theodore G., Springfield, Mass. Machine for applying hoods to articles. No. 1,423,237; July 18.
- McGivney, John, New York, N. Y. Snap hinge. No. 1,425,995; Aug. 15.
- McGlaulin, Eugene G., Portland, Oreg. Heat-radiating device. No. 1,422,282; July 11.
- McGlaulin, George W., Sioux City, Iowa. Dumping apparatus. No. 1,420,856; June 27.
- McGlochlin, Montezuma, Price, Utah. Pneumatic-tire rim. No. 1,410,067; Mar. 21.
- McGlochlin, Montezuma, Denver, Colo. Vehicle rim. No. 1,410,106; Mar. 21.
- McGonigal, Roderick A., Bridgeport, Ohio. Antiskid device. No. 1,410,690; Mar. 28.
- McGough, Frank R., Butte, Mont. Safety device for cranking mechanism of internal-combustion engines. No. 1,411,500; Apr. 4.
- McGovern, Daniel F., Montpelier, Vt. Polishing machine. No. 1,411,923; Apr. 4.
- McGovern, Daniel F., Montpelier, Vt. Emery ring. No. 1,416,728; May 23.
- McGovern, Daniel F., Montpelier, Vt. Polishing wheel. No. 1,416,729; May 23.
- McGovern, Daniel F., Montpelier, Vt. Buffing wheel. No. 1,425,786; Aug. 15.
- McGovern, John W., Port Alice, British Columbia, Canada. Reversible fluid-pressure turbine. No. 1,422,458; July 11.
- McGovern, William F., Trenton, N. J. Construction of concrete roads. No. 1,440,162; Dec. 26.
- McGowan, Dennis R., Unionville, Tenn. Draft mechanism. No. 1,408,898; Mar. 7.
- McGowan, Frank J., Mechanicsville, N. Y. Automobile washer. No. 1,418,383; June 6.
- McGowan, Jr., James, Camden, N. J., assignor to Joseph Campbell Company, Camden, N. J. Can-washing machine. No. 1,411,288; Apr. 4.
- McGowan, Owen J., Brooklyn, N. Y. Engaging and disengaging gear for ships' boats. No. 1,403,798; Jan. 17.
- McGowan, Owen J., Brooklyn, N. Y. Releasing book. No. 1,405,056; Jan. 31.
- McGowan, William L., Galt, Mo. Ironing board. No. 1,433,897; Oct. 31.
- McGowen, William H., Vincennes, Ind. Rim-locking attachment. No. 1,426,307; Aug. 15.
- McGowen, William R., Chicago, Ill. Automobile attaching bracket. No. 1,411,051; Mar. 28.
- McGowen, William R., Chicago, Ill. Automobile bumper. No. 1,411,052; Mar. 28.
- McGowen, William R., Chicago, Ill. Bumper-supporting bracket. No. 1,419,279; June 13.
- McGowen, William R., Chicago, Ill. Bumper-supporting bracket. No. 1,427,488; Aug. 29.
- McGrane, Rebecca, et al. (See Tracy, Laurence J., assignor.)
- McGrath, John D., and C. H. McCarthy, New York, N. Y. Resilient tire. No. 1,402,628; Jan. 3.
- McGrath, John T., Bloomington, Ill. Tube cleaner. No. 1,405,930; Feb. 7.
- McGrath, John T., Bloomington, Ill. Signal device. No. 1,415,595; May 9.
- McGrath, John W., Jr., Brookhaven, Miss. Sound post. No. 1,408,707; Mar. 7.
- McGrath, Joseph A., New York, N. Y. Camera. No. 1,405,240; Jan. 31.
- McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. No. 1,424,766; Aug. 8.
- McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. No. 1,433,833; Oct. 31.
- McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. No. 1,433,834; Oct. 31.
- McGraw, Carl O., and J. L. Martin, Royce City, Tex., assignor of one-third to F. P. Holland, Sr., Dallas, Tex. Automatic vacuum device for gasoline filling stations. No. 1,413,560; Apr. 18.
- McGraw, Carl O., Dallas, and J. L. Martin, Mexia, Tex. Vacuum-controlled electric switch for gasoline filling stations. No. 1,439,114; Dec. 19.
- McGraw, John E. (See Baylor, Charles A., assignor.)
- McGraw, Rhoda M., Syracuse, N. Y. Roof flange. No. 1,406,469; Feb. 14.
- McGregor, Alexander G., Warren, Ariz. Vehicle top. No. 1,415,377; May 9.
- McGregor, Alexander G., Warren, Ariz. Converter plant. No. 1,417,538; May 30.
- McGregor, Alexander G., Warren, Ariz. Apparatus for handling comminuted material. No. 1,422,997; July 18.
- McGregor, Allan L., Chicago, Ill. Automobile bumper. No. 1,439,477; Dec. 19.
- McGregor, Colin H., Durango, Colo. Form for use in erecting tapered concrete chimneys. No. 1,435,488; Nov. 14.
- McGrew, John A., and J. T. Loree, Albany, N. Y. Propulsion unit for vehicles. No. 1,412,250; Apr. 11.
- McGuckin, John J., Brooklyn, N. Y. Bicycle steering head. No. 1,423,601; Sept. 12.
- McGuckin, John J., Brooklyn, assignor to L. Schwab, New York, N. Y., doing business as Stevens & Company. Bench block. No. 1,426,658; Aug. 22.
- McGuinn, Thomas F. (See Kraker, Joseph S., assignor.)
- McGuire, James M., Hamilton, Ontario, Canada. Dirigible headlight for motor vehicles. No. 1,434,392; Nov. 7.
- McGuire, John J., Yonkers, N. Y. Convertible automobile body. No. 1,433,466; Oct. 24.
- McGuire, Lee R., Akron, Ohio. Expansible bag for vulcanizing tires. No. 1,410,023; Mar. 21.
- McGuire, Thomas T. (See Cary, H., and McGuire.)
- McHam, John W., assignor of one-half to H. G. Dannelly, Dallas, Tex. Sink attachment for holding dishpans. No. 1,436,972; Nov. 28.
- McHenry, Samuel B., Bloomsburg, Pa. Automobile-engine-starting means. No. 1,407,556; Feb. 21.

Alphabetical list of patentees—Continued.

- McHugh, David. (See Hahl, C. C., and McHugh.)
 McHugh, John J. (See Lengfeld, Carl F. and F. O., and McHugh.)
 McHugh, Lawrence E., Dubois, Pa. Stuffing container. No. 1,403,045; Jan. 10.
 McHugh, Philip M., Denver, Colo. Recovering sugar from molasses obtained in the manufacture of sugar from sugar beets. No. 1,402,079; Jan. 3.
 McHugh, Thaddeus J., and D. C. Maft, assignors to Gibson Mandolin-Guitar Company, Kalamazoo, Mich. Banjo. No. 1,402,876; Jan. 10.
 McIlrath, George W., and J. E. Taylor, Cleveland, Ohio. Device for preheating the explosive mixture in explosion engines. No. 1,415,184; May 9.
 Mellroy, Francis B., Hammond, Ind. Transmission lining. No. 1,406,049; Feb. 7.
 Melville, Cloyd A., Balboa Heights, Canal Zone, Panama. Wrench. No. 1,403,334; Jan. 10.
 McIlvried, Edwin J., Lakewood, Ohio. Anvil. No. 1,410,692; Mar. 28.
 McIlvried, Howard G. (See Haarbye, S. B., and McIlvried.)
 McIlvried, Howard G. (See Lorig, E. T., and McIlvried.)
 McLinnerney, Benjamin, Council Bluffs, Iowa. Tripping device. No. 1,408,108; Feb. 28.
 McInroy, George B., Oakland, Calif. Headlight indicator. No. 1,412,411; Apr. 11.
 McIntire, Charles V., East Orange, N. J., assignor of one-third to L. Wilputte and two-thirds to A. A. Wilputte, New Rochelle, N. Y. Reversing valve for regenerative furnaces. No. 1,430,172; Sept. 26.
 McIntire, Charles V., Brooklyn, assignor of one-third to L. Wilputte and two-thirds to A. A. Wilputte, New Rochelle, N. Y. Gas-collecting means. No. 1,433,634; Oct. 31.
 McIntosh, Clarence A., Canton, Ohio. Oil-testing apparatus. No. 1,430,310; Sept. 26.
 McIntosh, Douglas, (rauston, K. I. Chemical and assay balance. No. 1,437,768; Dec. 5.
 McIntosh, Frederick F., et al. (See Beneker, Jay C., assignor.)
 McIntosh, Harold V., Detroit, Mich. Warm-air furnace. No. 1,434,833; Nov. 7.
 McIntosh, James, Norristown, Pa., assignor to Diamond State Fibre Company, Elsmere, Del. Waterproofing vulcanized fiber. No. 1,425,878; Aug. 15.
 McIntosh, James, and J. R. Neill, Norristown, Pa., assignors to Diamond State Fibre Company, Elsmere, Del. Abrasive structure and making same. No. 1,435,721; Nov. 14.
 McIntosh, Stewart, Monkseaton, and J. S. Guild, Newcastle-upon-Tyne, England. Clutch for windlasses. No. 1,424,501; Aug. 1.
 McIntyre, Dallas, assignor of one-half to W. J. Stone, Horton, Kans. Coach ventilator. No. 1,417,268; May 23.
 McIntyre, Guy L., Pittsburgh, Pa. Filling composition for brake shoes. No. 1,429,358; Sept. 19.
 McIntyre, John C., Farnham, N. Y. Beater for rugs, etc. No. 1,414,294; Apr. 25.
 McIntyre, John M., Bad Axe, Mich. Bean buncher. No. 1,424,839; Aug. 8.
 McIntyre Porcupine Mines Limited. (See Dorfman, André, assignor.)
 McIntyre, William H., et al. (See Moodie, Robert P., assignor.)
 McIsaac, John T., East Weymouth, assignor to L. A. Crossett Co., North Abington, Mass. Arch support. No. 1,404,624; Jan. 24.
 McIvor, Norman A., Edmonton, Alberta, Canada. Arch. No. 1,412,477; Apr. 11.
 McKain, George L., deceased, Parkersburg, W. Va.; L. McKain administratrix. Wire-line-cutting device. No. 1,403,470; Jan. 10.
 McKain, Lina, administratrix. (See McKain, George L.)
 McKallip, John C., Houston, Tex. Sealed joint for liquid receptacles. No. 1,418,155; May 30.
 McKasty, Martin F., New Hyde Park, N. Y. Vine protector for spraying machines. No. 1,408,815; Mar. 7.
 McKay, Augusta P., assignor to McKay Disk Plow Co., Rome, Ga. Hitch for tractor plows. No. 1,436,595; Nov. 21.
 McKay, Augusta P., assignor to McKay Disk Plow Company, Rome, Ga. Steering arrangement for disk plows. No. 1,438,772; Dec. 12.
 McKay Disk Plow Company. (See McKay, Augusta P., assignor.)
 McKay, Edward C. (See Case, Francis M., assignor.)
 McKay, Henry N., San Francisco, Calif., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,402,366; Jan. 3.
 McKay, John A., Toronto, Ontario, Canada, assignor to General Electric Company. Electrical ceiling-fitting connection. No. 1,412,748; Apr. 11.
 McKeage, Guillaume R., Montrose, Pa. Automobile lock. No. 1,414,991; May 2.
 McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Device for guiding, clearing, and tensioning yarn. No. 1,405,792; Feb. 7.
 McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Stop motion for winding machines. No. 1,406,572; Feb. 14.
 McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Combined yarn clearer and tension device. No. 1,423,864; July 25.
 McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Device for guiding, clearing, and tensioning yarn. No. 1,435,539; Nov. 14.
 McKean, William C., assignor of one-fifth to W. A. Griffith, Pittsburgh, one-tenth to C. M. Clarke, Sewickley, and one-tenth to W. G. Doolittle, Edgeworth, Pa. Instructing device for teaching target designation. No. 1,402,940; Jan. 10.
 McKean, William L., Martins Ferry, Ohio, assignor to Steel Works Appliance Company, Pittsburgh, Pa. Tin-plate-cleaning machine. No. 1,414,365; May 2.
 McKechnie, James, Barrow-in-Furness, assignor to Vickers Limited, Westminster, London, England. Reciprocating engine. No. 1,419,159; June 13.
 McKechnie, James, and T. Fenner, assignors to Vickers Limited, Westminster, London, England. Broaching and surface finishing of holes or the like. No. 1,425,122; Aug. 8.
 McKee, Amos S., Chicago, Ill. Automatic scale. No. 1,434,553; Nov. 7.
 McKee, Carolyn, Waltham, Mass. Burner for gas-stove ovens. No. 1,404,783; Jan. 31.
 McKee, Emelius M. (See Saxton, Thomas G., assignor.)
 McKee, Garnet W., Rockford, Ill. Proportional fuel mixer. No. 1,404,211; Jan. 24.
 McKee, Garnet W., Rockford, Ill. Impeller for centrifugal compressors. No. 1,426,581; Aug. 22.
 McKee Glass Company. (See Sailer, George D., assignor.)
 McKee, Philip L., Chicago, Ill. Greenhouse construction. No. 1,434,250; Oct. 31.
 McKee, Ralph H., New York, N. Y. Chromic-acid regeneration. No. 1,408,618; Mar. 7.
 McKee, Ralph H., New York, N. Y. Electrode. No. 1,433,017; Oct. 24.
 McKee, Ralph J., assignor to Chicago Manufacturing & Distributing Company, Chicago, Ill. Track-bolt wrench. No. 1,437,602; Dec. 5.
 McKee, Robert G., Peru, Ind. Waste retainer for journal boxes. No. 1,416,105; May 16.
 McKee, Stillman W., Los Angeles, Calif. Follow-up filing system. No. 1,419,394; June 13.
 McKee, Stillman W., and J. H. Allen, Los Angeles, Calif.; said Allen assignor to said McKee. Shelf with label. No. 1,402,877; Jan. 10.
 McKee, Walter S., Chicago, Ill. Tractor link. No. 1,418,316; June 6.
 McKee, Walter S., Chicago, Ill. Dipper-tooth point with hollow surfaces. No. 1,427,610; Aug. 29.
 McKee, Willis, assignor to The Elyria Iron & Steel Company, Cleveland, Ohio. Welding apparatus. No. 1,420,720; June 27.
 McKellar, Judson L., assignor to Gasau-Thompson Company, Inc., Brooklyn, N. Y. Bed-spring fabric. No. 1,405,143; Jan. 31.
 McKellar, Judson L., assignor to Gasau-Thompson Company, Inc., Brooklyn, N. Y. Convertible chair and couch. No. 1,405,931; Feb. 7.
 McKelvy, James A., Harrisburg, Pa. Traffic shelter. No. 1,431,243; Oct. 10.
 McKenna Brass & Manufacturing Company. (See De Markus, Louis, assignor.)
 McKenna Brass & Manufacturing Company. (See Haller, Joseph F., assignor.)
 McKenna, Daniel W., Los Angeles, Calif. Meat-saw cleaner. No. 1,438,540; Dec. 12.
 McKenna, James, and H. E. Chase, assignors to H. L. Judd Company, Wallingford, Conn. Extension rod. No. 1,412,561; Apr. 11.
 McKenna, Michael H. (See McEldowney, Robert, assignor.)
 McKenna, Michael H., Cleveland, Ohio. Power machine for bending metal bars or rods. No. 1,414,744; May 2.
 McKenna, Michael H., Cleveland, Ohio. Motor-truck-loading windlass. No. 1,433,289; Oct. 24.
 McKenney, Emerson, Philadelphia, Pa., assignor of one-half to G. McKenney, Bangor, Me. Saw. No. 1,402,427; Jan. 3.
 McKenney, Galen. (See McKenney, Emerson.)
 McKenzie, Daniel B., Eufaula, Ala. Rail-joint supporter. No. 1,436,664; Nov. 28.
 McKenzie, Neil, Sault Ste. Marie, Mich. Shuttle driver for sewing machines. No. 1,413,175; Apr. 18.
 McKenzie, Robert F., assignor of one-fourth to G. G. Wilson, Scottsville, Ky. Rim expander and contractor. No. 1,434,786; Nov. 7.
 McKenzie, Thomas W., Calgary, Alberta, Canada. Combination switch and alarm. No. 1,408,619; Mar. 7.
 McKenzie, William H., Oakland, Calif. Cutting tool. No. 1,409,960; Mar. 21.
 McKeown, John C., Chicago, Ill. Truss. No. 1,417,929; May 30.
 McKeown, Samuel C., East Orange, assignor to Splittorf Electrical Company, Newark, N. J. Circuit breaker. No. 1,402,519; Jan. 3.
 McKesson & Robbins, Incorporated. (See Gane, Eustace H., assignor.)
 McKibbin, Joe S., Los Angeles, Calif. Wrench. No. 1,423,499; July 18.

- McKillican, James W. A., Montreal, Quebec, Canada. Tobacco pipe. No. 1,410,586; Mar. 28.
- McKim, John F., San Jose, Calif. Hutch. No. 1,422,283; July 11.
- McKinley, Charles W., assignor to The Willys-Overland Company, Toledo, Ohio. Carrier for spare rims or wheels. No. 1,410,107; Mar. 21.
- McKinley, Charles W., assignor to The Willys-Overland Company, Toledo, Ohio. Internal-gear-drive axle. No. 1,439,968; Dec. 26.
- McKinley, George A. (See Gregory, Frank E., assignor.)
- McKinley, Harold J. (See Burns, David E., assignor.)
- McKinley, John A., et al. (See Towers, Lewis E., assignor.)
- McKinney, Edward C., et al. (See Mitchell, Robert B., assignor.)
- McKinney, Eva J., Clinton, Ill. Bedclothes shield. No. 1,409,961; Mar. 21.
- McKinney, Joseph E., Minneapolis, Minn. Antislipping device. No. 1,403,799; Jan. 17.
- McKinney, Lee R., Linton, Ind. Tongue-operated lock for truck wheels. No. 1,424,929; Aug. 8.
- McKinney Manufacturing Company. (See Cade, Charles W., assignor.)
- McKinney, Peter A., et al. (See Mitchell, Robert B., assignor.)
- McKinney, Thomas J., et al. (See Kelley, Benjamin F., assignor.)
- McKinnie, Victor P., New York, N. Y., assignor to Ward Baking Company. Advertising device. No. 1,415,596; May 9.
- McKinnon, Allan, assignor to McKinnon Vacuum Trolley Harp Company, Holyoke, Mass. Trolley head. No. 1,438,251; Dec. 12.
- McKinnon Dash Company. (See Drumb, John, assignor.)
- McKinnon, James T., Detroit, Mich. Extensible truck body. No. 1,419,160; June 13.
- McKinnon Vacuum Trolley Harp Company. (See McKinnon, Allan, assignor.)
- McKinstry, George W., assignor to American Optical Company, Southbridge, Mass. Eye protector. No. 1,404,039; Jan. 17.
- McKiraan, Samuel, Golden, assignor of two-thirds to F. A. Fuller, Denver, Colo. Extracting metals from ores. No. 1,425,667; Aug. 15.
- McKissick, William H., Tulsa, Okla. Tubing drainer for well apparatus. No. 1,404,874; Jan. 31.
- McKnight, Al D., et al. (See Taylor, Boone U., assignor.)
- McKnight, Richard, Chicago, Ill. Filing device. No. 1,421,515; July 4.
- McKoy, Edwin A., and G. D. Moore, New Orleans, La. Harvesting stumps. (Reissue.) No. 15,394; June 27.
- McLachlan, John, East Elmhurst, N. Y. Device for opening and closing chain links. No. 1,409,876; Mar. 14.
- McLagan, William N., assignor of forty-nine per cent to T. J. Ronin and G. W. Morgan, Sycamore, Ill. Trap nest. No. 1,430,457; Sept. 26.
- McLain, Robert H., Schenectady, N. Y., assignor to General Electric Company. Control of electromagnetic switches. No. 1,419,872; June 13.
- McLain, Wade H., deceased; A. D. Franklin, administrator, assignor of one-half to W. P. Simpson, Erwin, Tenn. Vacuum container. No. 1,430,575; Oct. 3.
- McLanahan Stone Machine Co. (See Krider, George E., assignor.)
- McLane, Joseph A., Morgantown, W. Va. Method and apparatus for producing weftless cloth. No. 1,420,271; June 20.
- McLaren, Alexander. (See McLaren, Walter, assignor.)
- McLaren, Alexander. (See Sharp, Lee C., assignor.)
- McLaren, Andrew B., assignor to E. & A. Gunther Co., Ltd., Toronto, Ontario, Canada. Collapsible box. No. 1,414,196; Apr. 25.
- McLaren, Henry, assignor of one-half to J. & H. McLaren, Limited, Leeds, York, England. Motor windlass. No. 1,434,957; Nov. 7.
- McLaren, J. & H., Limited. (See McLaren, Henry, assignor.)
- McLaren, Walter, Chicago, Ill., assignor to A. McLaren, Dayton, Ohio. Apparatus for manufacturing cup pastry. No. 1,417,757; May 30.
- McLaren, Walter, assignor to A. McLaren, Dayton, Ohio. Making cup pastry. No. 1,438,541; Dec. 12.
- McLarty, John, assignor of one-half to J. Hasselberg, Klamath Falls, Oreg. Logging truck. No. 1,436,999; Nov. 28.
- McLaughlin, Charles E. (See Gabris, Filbert L., assignor.)
- McLaughlin, Charles W., Lock No. 4, and H. F. Rodgers, Charleroi, Pa. Pot-handling machine. No. 1,413,176; Apr. 18.
- McLaughlin, Everett. (See Naujoks, W., and McLaughlin.)
- McLaughlin, Frank, Ottawa, Ontario, Canada. Powder dispenser. No. 1,416,043; May 16.
- McLaughlin, Frank, Toronto, Ontario, Canada. Device for feeding fluid, semifluid, and plastic substances. No. 1,427,758; Aug. 29.
- McLaughlin, James, Pontardulais, Wales. Shackle, chain, coupling, or the like. No. 1,419,974; June 20.
- McLaughlin, Joseph, Fordwich, Ontario, Canada. Resilient vehicle wheel. No. 1,426,582; Aug. 22.
- McLaughlin, Milton P., Wakefield, assignor of one-third to F. F. Coggin, Somerville, and one-third to R. P. Whitcher, Melrose, Mass. Grease-cup plug. No. 1,430,458; Sept. 26.
- McLaughlin, Robert, assignor of one-half to A. G. Patton, Monmouth, Ill. Gate-hinge construction. No. 1,417,758; May 30.
- McLaughlin, Robert, assignor of one-half to A. G. Patton, Monmouth, Ill. Farm-gate hinge. No. 1,421,794; July 4.
- McLaughlin, William, Los Angeles, assignor of one-half to C. E. Norton, Glendale, Calif. Recuperator for glass furnaces and the like. No. 1,432,706; Oct. 17.
- McLaughlin, William J., Owatonna, Minn. Ice-cream overrun tester. No. 1,416,730; May 23.
- McLaughlin, Wilson L., Decatur, Ill. Communitated fuel. No. 1,435,540; Nov. 14.
- McLaws, Adam J., Detroit, Mich. Tractor. No. 1,410,488; Mar. 21.
- McLean, Donald H., administrator. (See Thofehn, Hermann G. C.)
- McLean, Randolph J., administrator. (See McLean, Randolph J., jr., assignor.)
- McLean, Randolph J., jr., deceased, by R. J. McLean, administrator, Woodstock, New Brunswick, Canada. Renewable fuse. No. 1,439,830; Dec. 26.
- McLean, Warren L., San Francisco, Calif. Screw driver. No. 1,415,251; May 9.
- McLean, Warren L., San Francisco, Calif. Chuck. No. 1,431,533; Oct. 10.
- McLellan, Samuel T., Charleston, W. Va. Valve. No. 1,439,565; Dec. 19.
- McLellan, Samuel T., assignor to T. E. Perry, Charleston, W. Va. Rim expander and contractor. No. 1,435,867; Nov. 14.
- McLellan, William, et al. (See Michie, A. C., and Weeks, assignors.)
- McLendon, Oliver P., and H. G. Smith, Kingsville, Tex.; said Smith assignor to said McLendon. Ball-bearing car sash. No. 1,424,502; Aug. 1.
- McLennan, Alexander, Ross, England. Treatment of leather with india rubber. No. 1,425,530; Aug. 15.
- McLeod, Archibald, Grand Rapids, Mich. Top for desks and the like and making and finishing the same. No. 1,406,270; Feb. 14.
- McLeod, Donald, Tacoma, Wash. Scaffold for ship construction. No. 1,409,559; Mar. 14.
- McLeod, Harry S. (See Gorrell, M. J., and McLeod.)
- McLeod, Nelson W., New York, N. Y. Pneumatic-tire casing. No. 1,423,771; July 25.
- McLeod, Walter H., Granite Falls, Minn. Movable headlight. No. 1,411,924; Apr. 4.
- McLeod, Walter H., St. Paul, Minn. Movable headlight. No. 1,420,564; June 20.
- McLeran, Alvord M., Chicago, Ill. Power tool grinder. No. 1,432,402; Oct. 17.
- McLey, Henry F., Pattonsburg, Mo. Cattle guard. No. 1,433,898; Oct. 31.
- McLoughlin, Francis J., Brooklyn, N. Y. Typewriter. No. 1,425,029; Aug. 8.
- McLouth, Sydney C. (See Beebe, Martin, assignor.)
- McMahan, George W., Lincoln, Ill. Dip net. No. 1,432,478; Oct. 17.
- McMahan, Minnie O., Dallas, Tex. Underskirt. No. 1,433,635; Oct. 31.
- McMahon, Arthur, Scotia, Calif. Link pin for dredge-bucket chains. No. 1,429,518; Sept. 19.
- McMahon, Daniel F., Cicero, Ill. Shock absorber. No. 1,410,940; Mar. 28.
- McMahon, Frederick F., Bridgeport, Conn. Device for hanging crates. No. 1,408,755; Mar. 7.
- McMahon, Nora E., Columbia, Tenn. Indicating plate. No. 1,404,460; Jan. 24.
- McMahon, Patrick F., Bethlehem, Pa. Incinerator. No. 1,439,675; Dec. 19.
- McMahon, Robert B. (See Pierini, Humbert, assignor.)
- McManis, John V., Kirksville, Mo. Treatment table. No. 1,417,675; May 30.
- McManis, John V., Kirksville, Mo. Treatment table. No. 1,427,004; Aug. 22.
- McManis, John V., Kirksville, Mo., and F. Koenigkramer, Cincinnati, Ohio. Treatment stool. No. 1,415,252; May 9.
- McManus, Charles E., New York, N. Y. Bottle-cap-making machine. No. 1,402,780; Jan. 10.
- McManus, Charles E., New York, N. Y. Carrier for cork-rod bakers. No. 1,409,223; Mar. 14.
- McManus, Charles E., New York, N. Y. Cork-rod-ejector machine. No. 1,409,224; Mar. 14.
- McManus, Charles E., New York, N. Y. Locking attachment for cork-rod bakers. No. 1,412,125; Apr. 11.
- McManus, Charles E., New York, N. Y. System for making and handling cork disks. No. 1,432,197; Oct. 17.
- McMaster, George E., Bellingham, Wash. Moving colored-shadow and flash-light sign. No. 1,410,489; Mar. 21.
- McMeans, William, West Liberty, Iowa. Grain elevator. No. 1,434,134; Oct. 31.
- McMerney, Dennis J., Portland, Oreg. Furnace. No. 1,428,488; Sept. 5.
- McMichael, James D., Rochester, N. Y. Saw guard. No. 1,427,005; Aug. 22.
- McMillan, Ernest C. (See McMillan, John R. and E. C.)

Alphabetical list of patentees—Continued.

- McMillan, Fred, Beaver Dam, Wis. Rope-weaving machine. No. 1,436,812; Nov. 28.
- McMillan, James, Jr., Piedmont, W. Va. Combined collision mat and torpedo-deflecting device. No. 1,410,820; Mar. 28.
- McMillan, John R. and E. C., Bushong, Kans. Clearing attachment for thrashing machines. No. 1,415,666; May 9.
- McMillan, Samuel D., Lexington, N. C. Ticket stamp. No. 1,432,769; Oct. 24.
- McMillen, Harry. (See Rowe, Ernest N., assignor.)
- McMillen, Samuel, assignor to Mackintosh Hemphill Company, Pittsburgh, Pa. Journal bearing. No. 1,419,506; June 13.
- McMillin, Louis J., Indianapolis, Ind. Vehicle dumping apparatus. No. 1,433,018; Oct. 24.
- McMillin, Louis J., Indianapolis, Ind. Wheel clamp for dumping vehicles. No. 1,433,019; Oct. 24.
- McMinn, John E., assignor to Peerless Manufacturing Company, Louisville, Ky. Coal chute. No. 1,438,124; Dec. 5.
- McMonagle, Thomas, Augusta, Me. Shaving brush. No. 1,436,624; Nov. 21.
- McMorran, Edward E., et al. (See Cremer, Frederick, assignor.)
- McMullen, Allen, Kenwood, assignor to Oneida Community, Limited, Oneida, N. Y. Game trap. No. 1,430,242; Sept. 26.
- McMullen, John, Buffalo, N. Y., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Reinforced car ends. No. 1,412,210; Apr. 11.
- McMullen, Joseph B., Catonsville, assignor to Acme Motor Shield Corporation, Baltimore, Md. Windshield attachment. No. 1,434,714; Nov. 7.
- McMullen, Joseph I., Washington, D. C. Tractor. No. 1,421,270; June 27.
- McMullen, Robert V., Eureka, Kans., assignor to The Midland Supply Company, Pawhuska, Okla. Fishing tool. No. 1,417,616; May 30.
- McMurdo, John, Winnipeg, Manitoba, Canada. Grain door. No. 1,424,206; Aug. 1.
- McMurry, John D. (See Cary, J. H., and McMurry.)
- McMurry, Walter J. (See Adams, John C., assignor.)
- McMurry, Alden L., Washington, D. C. Speed regulator for motor vehicles. No. 1,431,169; Oct. 10.
- McMurtry, Edward A., Chicago, Ill. Photographic exposure meter. No. 1,409,225; Mar. 14.
- McNab, Alexander, Bridgeport, Conn. Rudder. No. 1,402,080; Jan. 3.
- McNab, Joseph W. (See Tobias, William L., assignor.)
- McNab & Harlin Manufacturing Company. (See Banks, Frederick R., assignor.)
- McNabb, Dustin W., et al. (See Boe, Edd, assignor.)
- McNairy, Jacob W., Schenectady, N. Y., assignor to General Electric Company. Instrument for measuring carbon dioxide in gas mixtures. No. 1,436,273; Nov. 21.
- McNally, John F., and R. A. Bradley, Emporia, Kans. Clutch pulley. No. 1,422,873; July 18.
- McNama, Frank L., et al. (See Beyer, Clarence B., assignor.)
- McNamara, Charles D., Fair Play, Colo. Aeroplane. No. 1,423,131; July 18.
- McNamara, Edward M., Chicago, Ill. Mop holder and wringer. No. 1,409,747; Mar. 14.
- McNamara, Grace E., Plymouth, Ind. Corset clasp. No. 1,416,850; May 23.
- McNamara, John W., et al. (See Bockover, Walter L., assignor.)
- McNamara, Matthew J., assignor of one-half to J. R. Fleming, Scranton, Pa. Railway-switch guard. No. 1,426,583; Aug. 22.
- McNamara, Vincent J., New York, N. Y. Fountain shaving brush. No. 1,417,082; May 23.
- McNamee, Patrick J., New York, N. Y. Ground-gripping device. No. 1,430,243; Sept. 26.
- McNamee, Thomas, Philadelphia, Pa. Bottle closure. No. 1,425,401; Aug. 8.
- McNannama, Loren G. (See Chancellor, C. A., McNannama, and Houghton.)
- McNary, James E., Chicago, Ill. Man pack carrier. No. 1,407,290; Feb. 21.
- McNary, Peter M. (See Powell, F. E., and McNary.)
- McNaughton, John, New York, N. Y. Mop. No. 1,423,444; July 18.
- McNeal, George E., Cleveland, Ohio. Partition structure. No. 1,426,584; Aug. 22.
- McNeel, William P., San Antonio, Tex. Speed-regulating device. No. 1,416,567; May 16.
- McNeely, George R. (See Walter, H. F., and McNeely.)
- McNeil, Alfred H., Chingford, England. Thermostatic regulating or controlling apparatus. No. 1,416,851; May 23.
- McNeil, Claude P. (See Brinker, J. E., and McNeil.)
- McNeil, Claude P., New York, N. Y. Coated granules. No. 1,421,271; June 27.
- McNeil, James W., Newark, N. J. Sheet-metal barrel. No. 1,417,617; May 30.
- McNeil, James W., Newark, N. J. Sheet-metal barrel. No. 1,428,337; Sept. 5.
- McNeil, John, assignor to The John Douglas Company, Cincinnati, Ohio. Self-closing faucet. No. 1,418,664; June 6.
- McNeill, Edward, New York, N. Y. Clothes drier. No. 1,409,877; Mar. 14.
- McNeill, John D., Chicago, Ill. Apparatus for rendering metal homogeneous. No. 1,419,280; June 13.
- McNemar, Corry E., Manhattan, Kans. Tire-repair tool. No. 1,410,819; Mar. 28.
- McNicholas, Hiram, Connell, Wash. Station indicator. No. 1,425,879; Aug. 15.
- McNiece, Thomas B., Mansfield, assignor of one-half to F. L. Garrison, Cincinnati, Ohio. Fish stringer. No. 1,417,759; May 30.
- McNiff, Gilbert P., assignor to National Tube Company, Pittsburgh, Pa. Cylinder and making same. No. 1,420,721; June 27.
- McNiff, John T., assignor to R. F. McNiff, Waterbury, Conn. Business hours placard. No. 1,423,485; July 18.
- McNiff, Raymond F. (See McNiff, John T., assignor.)
- McNish, Jess G., Lawrence, Kans. Movable headlight. No. 1,411,925; Apr. 4.
- McNulty, John, Gulfport, Miss. Collapsible jacket for foul-air removers. No. 1,430,459; Sept. 26.
- McNulty, John, Gulfport, Miss. Foul-air remover. No. 1,430,460; Sept. 26.
- McPeck, Edison, Sardis, Ohio. Headlight dimmer. No. 1,413,415; Apr. 18.
- McPhee, Joseph F. (See Holmes, Henry, assignor.)
- McPherson, Elmer T., Wallingford, Conn. Auger bit. No. 1,417,760; May 30.
- McPhillips, John R., and H. S. Bowes, London, Ontario, Canada. Attachment for phonographs. No. 1,410,108; Mar. 21.
- McQuaid, Harry W., assignor to The Timken Roller Bearing Company, Canton, Ohio. Determining the suitability of steel for casehardening. No. 1,425,787; Aug. 15.
- McQuaid, John H., Belmont, Fla. Vine support. No. 1,432,403; Oct. 17.
- McQuay-Norris Manufacturing Company. (See Kronable, John B., assignor.)
- McQuay-Norris Manufacturing Company. (See Mummert, Arden J., assignor.)
- McQuarrie, James L., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,406,668; Feb. 14.
- McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,409,386; Mar. 14.
- McQueen, Francis W., assignor of one-half to L. M. Hengesbaugh, Flint, Mich. Quick-action device for vises or wrenches. No. 1,415,103; May 9.
- McQueen, James W., Waterliet, Mich. Rotary engine. No. 1,434,446; Nov. 7.
- McQuiston, John D., Sioux City, Iowa. Car-door lock. No. 1,422,589; July 11.
- McQuitty, Robert A., London, England. Manufacturing sheets of gelatin. No. 1,407,075; Feb. 21.
- McRae, William W., Waituna Waikari, New Zealand. Rim for the wheels of motor cars and other vehicles. No. 1,420,329; June 20.
- McRea, Forbes. (See Appleton, C., and McRea.)
- McRea, Thomas K. (See Allen, W. R., and McRea.)
- McRoberts, Donal C., Indianapolis, Ind., assignor to G & J Tire Company. Making inner tubes and the like. No. 1,406,669; Feb. 14.
- McRoberts, Donal C., Indianapolis, Ind., assignor to G & J Tire Company. Apparatus for making inner tubes and the like. No. 1,433,561; Oct. 31.
- McRoberts, John E., Parma, Idaho. Resilient wheel. No. 1,434,497; Nov. 7.
- McSpadden, Elbert A., Crawfordsville, Ind. Damper seat. No. 1,407,210; Feb. 21.
- McSweeney, William H., et al. (See Abell, Arthur, assignor.)
- McVeety, Charles, Cheltenham, Pa. Humidifier for furnaces. No. 1,438,318; Dec. 12.
- McVeigh, Edgar N., assignor to The Keever Starch Company, Columbus, Ohio. Producing laundry starch. No. 1,406,050; Feb. 7.
- McVicker, Emery M., Milwaukee, Wis. Rail fastener. No. 1,414,784; May 2.
- McVicker, Robert J., New York, N. Y. Interchangeable tooth. No. 1,407,557; Feb. 21.
- McVoy, Vincen P., Mobile, Ala., assignor to United States Railway Supply Company, Dover, Del. Drifting valve. No. 1,403,129; Jan. 10.
- McWane, Charles P., Birmingham, Ala. Tire protector. No. 1,406,202; Feb. 14.
- McWhirter, John S., New York, N. Y. Brake-operating mechanism for street cars and similar vehicles. No. 1,409,226; Mar. 14.
- McWhirter, John S., New York, N. Y. Slot cleaner for street railways. No. 1,431,474; Oct. 10.
- McWhirter, John S., New York, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,433,734; Oct. 31.
- McWhorter, Allen, Riverton, N. J. Grass-edge trimmer. No. 1,416,106; May 16.
- McWhorter, William H. (See Treiber, T. R., and McWhorter.)
- McWilliams, Anderson W., Oklahoma, Okla. Automobile locking device. No. 1,406,670; Feb. 14.
- McWilliams, Everett. (See Brzazowsky, O. W., and McWilliams.)
- McWilliams, James A., Chicago, Ill. Ice pick. No. 1,415,887; May 16.
- McWilliams, John A., Philadelphia, Pa. Packing and display box. No. 1,413,677; Apr. 25.

Alphabetical list of patentees—Continued.

- McWilliams, Walter, Florence Township, Burlington Co., N. J. Automobile signal. No. 1,408,461; Mar. 7.
- McWorter, John E., assignor to Autoplanes Company of America, St. Louis, Mo. Flying machine. No. 1,438,929; Dec. 12.
- Meacham, Aldah R., Oklahoma, Okla. Moving-picture film and producing the same. No. 1,402,879; Jan. 10.
- Meacham, Benjamin E., Lorain, Ohio, assignor to American Stove Company, St. Louis, Mo. Oven-heat regulator. No. 1,421,281; June 27.
- Mead Cycle Company. (See Lewis, George S., assignor.)
- Mead Cycle Company. (See Meiselbach, August D., assignor.)
- Mead, Frederick W., Solihull, England. Lubrication system of internal-combustion engines. No. 1,428,177; Sept. 5.
- Mead, Henry L., Erie, Pa. Vacuum-package apparatus. No. 1,434,018; Oct. 31.
- Mead, James S., Cincinnati, Ohio. Collar button. No. 1,425,670; Aug. 15.
- Mead, John H., Toronto, Ontario, Canada. Valve. No. 1,434,447; Nov. 7.
- Mead, Samuel N. (See Grierson, P. S., and Mead.)
- Mead, William H., Autaugaville, Ala. Wire tightener and twister. No. 1,418,956; June 6.
- Mead-Morrison Manufacturing Company, The. (See Morris, A. E., and Ecks, assignors.)
- Meade, Henry L., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,416,226; May 16.
- Meade, James M., Honeoye, N. Y. Stovepipe thimble. No. 1,428,294; Sept. 5.
- Meade, Joseph R., Roosevelt, assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Landing gear for aircraft. No. 1,406,575; Feb. 14.
- Meade, Richard K., Baltimore, Md. Kiln. No. 1,416,657; May 16.
- Meadoff, Abraham S., New York, N. Y. Attachment for automobile wheels. No. 1,410,208; Mar. 21.
- Meadoff, Abraham S., New York, N. Y. Automobile wheel. No. 1,410,209; Mar. 21.
- Meador, Arthur G., Clovis, N. Mex. Draft equalizer. No. 1,419,881; June 13.
- Meadowcroft, John R., Montreal, Quebec, Canada. Dry-pipe valve. No. 1,428,700; Sept. 12.
- Meadowcroft, John R., Montreal, Quebec, Canada, assignor, by mesne assignments, to General Fire Extinguisher Company, New York, N. Y. Sprinkler. No. 1,405,611; Feb. 7.
- Meadows, Bobby H. (See Carlin, Bernard, assignor.)
- Meadows, Thomas C., New York, M. Hauber, Jr., Haverstraw, and H. W. Charlton, New York, N. Y. Saltpeter manufacture. No. 1,433,290; Oct. 24.
- Meadows, Thomas C., and H. D. Ruhm, assignor to Eastern Potash Corporation, New York, N. Y. Eliminating color from caustic alkali. No. 1,415,186; May 9.
- Meakin, Edgar T., Berkeley, Calif. Continuous press. No. 1,421,282; June 27.
- Meakin, Edgar T., Berkeley, Calif. Apparatus for producing fish meal. No. 1,421,283; June 27.
- Mears, Neal F., Chicago, Ill. Musical transposing device. No. 1,431,972; Oct. 17.
- Mears, William T., Petersburg, Va. Vehicle stake. No. 1,411,576; Apr. 4.
- Measuregraph Company, The. (See Hosch, G. C., and Kyle, assignors.)
- Measuregraph Company, The. (See Hosch, G. C., and Owen, assignors.)
- Measuregraph Company. (See Hosch, W. E., and Turner, assignors.)
- Measuregraph Company, The. (See Hosch, Walter E., assignor.)
- Measuregraph Company, The. (See Nugent, Edwin T., assignor.)
- Measuregraph Company, The. (See Pedersen, Johannes T., assignor.)
- Measuregraph Company, The. (See Reichmann, Frederick, assignor.)
- Measuregraph Company, The. (See Stocke, John F., assignor.)
- Measuregraph Company, The. (See Turner, Douglas, assignor.)
- Measuregraph Company, The. (See Wheeler, J. L., and Reed, assignors.)
- Measuregraph Company, The. (See Wheeler, John L., assignor.)
- Mecano Limited. (See Hornby, Frank, assignor.)
- Mechanical Improvement Co. (See de Martino, Joseph, assignor.)
- Mechanical Production Co. (See Drahonovsky, John B., assignor.)
- Mechanical Rubber Company, The. (See Kent, William J., assignor.)
- Mechano Gear Shift Company. (See Richardson, Bayard E., assignor.)
- Mechau, Emil, Rastatt, Germany. Illuminating device for moving-picture apparatus. No. 1,417,089; May 23.
- Mechau, Emil, Rastatt, Germany. Kinematographic apparatus. No. 1,421,523; July 4.
- Mechling, Fidelis M., Wichita, Kans. Beam hanger. No. 1,426,834; Aug. 22.
- Mecky, A., Company. (See Davis, Clarence M., assignor.)
- Mecky, A., Company. (See Gerson, Nikolaus, assignor.)
- Mecky, A., Company. (See Ledig, Richard G., assignor.)
- Mecky, A., Company. (See Papini, Antonio, assignor.)
- Meconi, Alberto, Munich, Germany, assignor to T. Meconi, Cumberland, Md. Window cleaner. No. 1,423,239; July 18.
- Meconi, Tacope. (See Meconi, Alberto, assignor.)
- Mecorney, Ralph H., St. Albans, Vt. Theater-seat-indicating apparatus. No. 1,403,048; Jan. 10.
- Medart Company, The. (See Kaiser, A. G., Nahirny, and Erleben, assignors.)
- Meden, Eloi H., assignor, by mesne assignments, to A. G. A. Railway Light & Signal Co., Inc., Elizabeth, N. J. Railway signaling apparatus. No. 1,436,401; Nov. 21.
- Medholdt, Louis T., Winthrop, assignor to S. A. Woods Machine Company, Boston, Mass. Side-leg construction for matchers and the like. No. 1,406,470; Feb. 14.
- Medici, Charles O. (See Medici, Joseph L. and C. O.)
- Medici, Joseph L. and C. O., Detroit, Mich. Condiment holder. No. 1,425,328; Aug. 8.
- Medvec, John J., Minneapolis, Minn. Billiard cue, ferrule, and tip. No. 1,429,752; Sept. 19.
- Meed, James E., Palestine, W. Va. Saw-filing machine. No. 1,425,602; Aug. 15.
- Meeder, Herbert L., assignor of three-eighths to L. S. Hall and two-eighths to J. Inglis, Denver, Colo. Internal-combustion engine. No. 1,410,946; Mar. 28.
- Meeder, Herbert L., assignor of three-eighths to L. S. Hall and two-eighths to J. Inglis, Denver, Colo. Starter for automobile engines. No. 1,418,449; June 6.
- Meehan, Paul A., Cleveland, Ohio, assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Duplex tunnel kiln. No. 1,437,769; Dec. 5.
- Meek, David R., assignor to Meek Oven Manufacturing Company, Inc., Westport, Conn. Baking oven. No. 1,408,220; Feb. 28.
- Meek Oven Manufacturing Company. (See Meek, David R., assignor.)
- Meeker, John A., Potsdam, N. Y. Butter-fat gauge. No. 1,421,524; July 4.
- Meeker, William H. (See Baldwin, Oscar C., assignor.)
- Meeks, Arthur R., Columbus, Ga. Tensioning device for shuttles. No. 1,428,445; Sept. 5.
- Meeks, Fred, Los Angeles, Calif. Soap holder. No. 1,416,962; May 23.
- Meenan, Peter F., Detroit, Mich. Switch. No. 1,409,882; Mar. 14.
- Megathlin, Ralph S., Somerville, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Model making. No. 1,417,274; May 23.
- Megenity, Ralph A., Kansas City, Mo. Concrete construction. No. 1,402,429; Jan. 3.
- Megenity, Ralph A., Kansas City, Mo. Securing facings and the like to walls and the like. No. 1,429,682; Sept. 19.
- Megenity, Ralph A., Kansas City, Mo. Stud for concrete construction. No. 1,429,683; Sept. 19.
- Megill, Edward L., New York, N. Y. Gauge pin. No. 1,408,756; Mar. 7.
- Megill, Edward L., New York, N. Y. Feed gauge for printing presses. No. 1,416,488; May 16.
- Meginniss, Francis R. (See Spalt, E. B., and Meginniss.)
- Mehlberger, Louis, Detroit, Mich. Fender for motor vehicles. No. 1,438,844; Dec. 12.
- Mehlhorn, Paul. (See Jaekle, F., and Mehlhorn.)
- Mehlin, Otto F., West New York, assignor to Auto Safety Device Company, Newark, N. J. Automobile lock. No. 1,420,205; June 20.
- Mehlis, Ferdinand, Berlin-Buchholz, Germany. Emergency bearing for railway cars. No. 1,422,596; July 11.
- Mehn, Hermann, Berlin-Tempelhof, assignor to Dr. K. Glahn, Berlin-Wilmersdorf, Germany. Electrical water heater. No. 1,418,011; May 30.
- Mehr, Fred. (See Kleiber, H., and Mehr.)
- Mehrtens, August C., Milwaukee, Wis. Rotary valve structure for internal-combustion engines. No. 1,411,449; Apr. 4.
- Meier, Charles, Haverhill, Iowa. Pneumatic organ player. No. 1,405,932; Feb. 7.
- Meier, Eric J., Dorchester, Mass. Anchor. No. 1,414,992; May 2.
- Meier, Frederick H., Webster City, Iowa. Sectional clay block structure for sewers and drainage. No. 1,430,094; Sept. 26.
- Meier, Richard. (See McClain, John B., assignor.)
- Meier, William, New York, N. Y. Pedal-controlled mixing faucet. No. 1,402,632; Jan. 3.
- Meier, William, New York, N. Y. Mixing faucet. No. 1,402,633; Jan. 3.
- Meier, William, New York, N. Y. Pedal-control liquid mixer. No. 1,418,193; May 30.
- Meier-Gaynor Manufacturing Co. (See Gaynor, John J., assignor.)
- Meikle, George S., Manhattan, assignor to S. Sternau & Company, Inc., Brooklyn, N. Y. Heater. No. 1,415,890; May 16.
- Meikle, George S., New York, assignor to S. Sternau & Company, Inc., Brooklyn, N. Y. Stand for alcohol burners. No. 1,421,284; June 27.
- Meiklejohn, Ernest H. (See Luetgert, A. C., and Meiklejohn.)
- Meiklejohn, William. (See Shardlow, William, assignor.)

Alphabetical list of patentees—Continued.

- Melli, Otto, and P. Blumberg, assignors to The Meili-Blumberg Company, Inc., New Holstein, Wis. Steering-gear-control attachment. No. 1,405,854; Feb. 7.
- Meili-Blumberg Company, The. (See Meili, O., and Blumberg, assignors.)
- Meinhardt, Jacob A., Chicago, Ill. Mop and supporting frame therefor. No. 1,414,036; Apr. 25.
- Meinhardt, Jacob A., Chicago, Ill. Mop holder. No. 1,414,037; Apr. 25.
- Meilink, Charles F., Toledo, Ohio. Fire-resisting structure. No. 1,428,340; Sept. 5.
- Meinersmann, William, Elizabeth, assignor to Metal & Thermit Corporation, Chrome, N. J. Electric furnace. No. 1,434,395; Nov. 7.
- Meinhardt, Jacob A., Chicago, Ill. Mop frame and handle coupling. No. 1,422,368; July 11.
- Meinig, Arthur H., Omaha, Nebr. Sign. No. 1,407,944; Feb. 28.
- Meir, George. (See Di Como, Charles, assignor.)
- Meisel, Charles A., assignor to Meisel Press Manufacturing Company, Boston, Mass. Numbering head. No. 1,421,525; July 4.
- Meisel, Charles A., Dorchester, assignor to Meisel Press Manufacturing Company, Boston, Mass. Securing means for printing plates. No. 1,423,486; July 18.
- Meisel, Michael M., Philadelphia, Pa. Hairpin. No. 1,437,770; Dec. 5.
- Meisel Press Manufacturing Company. (See Meisel, Charles A., assignor.)
- Meiselbach, August D., assignor to Mead Cycle Company, Chicago, Ill. Cycle. No. 1,409,748; Mar. 14.
- Meiser, Wilhelm. (See Bosch, C., and Meiser.)
- Meisner, Joseph, New York, N. Y. Safety purse. No. 1,425,889; Aug. 15.
- Meissel, Henry A., assignor to Kahn Tailoring Company, Indianapolis, Ind. Spool holder for sewing machines. No. 1,423,487; July 18.
- Meissner, William O., assignor to Sterling Devices Company, Chicago, Ill. Nonset stop for phonographs. No. 1,419,164; June 13.
- Meister, Daniel J., Washington, D. C. Water-heating apparatus. No. 1,404,134; Jan. 17.
- Meitner, Elemer, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Correction mechanism for integrating devices. No. 1,415,601; May 9.
- Mejdell, Thor, assignor to A/S Labrador, Christiania, Norway. Production of alumina from aluminium nitrate solutions. No. 1,413,754; Apr. 25.
- Mejdell, Thor, assignor to A/S Labrador, Christiania, Norway. Removing iron from solutions containing aluminium. No. 1,421,804; July 4.
- Melaney, William H., Pittsburgh, Pa. Rolling mill. No. 1,407,334; Feb. 21.
- Melanson, Charles G., Lynn, Mass. Headlight. No. 1,408,306; Feb. 28.
- Melanson, Charles G., Lynn, Mass. Headlight. No. 1,428,109; Sept. 5.
- Melanson, Charles G., Lynn, Mass. Headlight. No. 1,428,110; Sept. 5.
- Melcher, George S., Sharon, Mass., assignor to C. W. McConnell, Boston, Mass., E. Macleod, L. Soule, Westwood, Mass., F. B. Look, Northampton, Mass., and C. Macleod, Philadelphia, Pa., trustees, doing business under the name of The Mason Regulator Company. Pressure regulator. No. 1,436,973; Nov. 28.
- Melchiorri, Louis. (See Di Giacomo, G., and Melchiorri.)
- Meldal, Edward, London, England. Apparatus for use in the repair of roads and the like. No. 1,424,507; Aug. 1.
- Meldrum, Claron W., Ocean Park, Calif. One-piece football. No. 1,408,116; Feb. 28.
- Meldrum, John T., Tippecanoe, Ohio. Track gauge and level. No. 1,413,416; Apr. 18.
- Meldrum-Gabrielson Corporation. (See Gabrielson, Carl, assignor.)
- Mele, John M., East Haven, Conn. Signal device. No. 1,428,045; Sept. 5.
- Meleg, Joseph, Beaver Falls, Pa. Automobile sleigh. No. 1,435,489; Nov. 14.
- Melidona, Antonio, Niagara Falls, N. Y. Automobile frame. No. 1,423,240; July 18.
- Melin, August V., Norway, Mich. Snow and mud shoe. No. 1,411,740; Apr. 4.
- Melin, Emile, Marseille, France. Elastic wheel hub. No. 1,433,638; Oct. 31.
- Melind, Louis J., Chicago, Ill. Time stamp. No. 1,411,290; Apr. 4.
- Meling, Waldemar M., New York, N. Y. Musical transposing chart. No. 1,436,771; Nov. 28.
- Melish, Thomas G., Cincinnati, Ohio. Holder for jars. No. 1,421,705; July 4.
- Mellage, Charles M., St. Louis, Mo. Sole-tempering box. No. 1,417,090; May 23.
- Mellblom, Adolph A., Chicago, Ill. Spark plug. No. 1,425,329; Aug. 8.
- Mellen, Bert F. (See Ward, T. W., and Mellen.)
- Meller, Karl, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Electromagnetic coupling. No. 1,434,136; Oct. 31.
- Mellet, Lemuel, and T. Curran, Watertown, said Curran assignor of his entire right to W. T. Beattie, Arlington, Mass. Fender for motor-driven vehicles. No. 1,408,117; Feb. 28.
- Mellin, Carl E., Schenectady, N. Y. Fluid-pressure turbine. No. 1,431,748; Oct. 10.
- Mellin, George E., Staten Island, assignor to C. W. Hunt Company, Inc., West New Brighton, Staten Island, N. Y. Apron conveyor. No. 1,432,076; Oct. 17.
- Mellinger, Cortez A. (See Cowdell, Charles B., assignor.)
- Melish, Frank. (See Lyon, De Witt T., assignor.)
- Mellon, Harry J., Pittsburgh, Pa. Combination pen and pencil holder and calendar. No. 1,428,968; Sept. 12.
- Mellor, Harry, et al. (See Schnell, Charles A., assignor.)
- Mellor, John. (See Crossby, W. E. J., and Mellor.)
- Mellor, Ralph, assignor to Kestner Evaporator Company, Philadelphia, Pa. Evaporator. No. 1,424,254; Aug. 1.
- Mellor, Thomas, Chicopee, Mass. Air valve. No. 1,439,744; Dec. 26.
- Mellott, Howard S., Morenci, Mich., assignor to The By-Products Recovery Co., Toledo, Ohio. Producing a condensed-milk product. No. 1,423,810; July 25.
- Melloy, James H., and W. Owen, assignors to Wm. Muir and Company, Limited, Manchester, England. Gear cutting, slotting, and like machines. No. 1,422,462; July 11.
- Melnick, Polikarp, Camden, N. J. Windmill. No. 1,418,194; May 30.
- Melniker, Abraham, and S. Calmanson, Brooklyn, N. Y. Support for hammocks. No. 1,431,408; Oct. 10.
- Meloon, Joseph A., Needham, Mass. Window attachment. No. 1,405,057; Jan. 31.
- Melown, George E., McKeesport, Pa. Lubricating device for rolling mills. No. 1,421,805; July 4.
- Melton, Perry O., Aberdeen, S. Dak. Metallic alloy for repair purposes. No. 1,429,959; Sept. 26.
- Meltz, Julius B., Everett, assignor to A. L. Smith Iron Works, Chelsea, Mass. Bending machine. No. 1,438,321; Dec. 12.
- Meltz, Julius B., Everett, assignor to A. L. Smith Iron Works, Chelsea, Mass. Twisting machine. No. 1,438,322; Dec. 12.
- Meltzer, Benjamin, Brooklyn, N. Y. Automatic vehicle brake. No. 1,410,947; Mar. 28.
- Melville, Albert, Morrisville, Pa. Car journal. No. 1,426,895; Aug. 22.
- Melville, Alexander P., et al., executors. (See Lumsden, J. D., Mackenzie, Robinson, and Fort.)
- Melvin, Frederick M., La Plata, Mo. Plural-disk cushion clutch. No. 1,407,561; Feb. 21.
- Melvin, John H., Columbus, assignor of one-half to E. B. Dillon, Cleveland, Ohio. Ignition system for internal-combustion engines. No. 1,434,789; Nov. 7.
- Melvin, Paul A., Chicago, Ill. Water motor. No. 1,403,702; Jan. 17.
- Melvin, William O., Lakewood, Ohio. Display attachment for counters. No. 1,421,806; July 4.
- Mewaker, Morris E., assignor to Maass & Kemper, Inc., Baltimore, Md. Garment. No. 1,406,203; Feb. 14.
- Menard, Henry J., assignor to H. R. Manufacturing Company, Chicago, Ill. Lock for controlling levers. No. 1,434,556; Nov. 7.
- Menard, Henry J., and A. C. Saxton, assignors to H. R. Manufacturing Company, Chicago, Ill. Lock for controlling levers. No. 1,437,853; Dec. 5.
- Menasha Wooden Ware Co. (See Cooper, Simon, assignor.)
- Mendel, Carlo, Alexandria, Egypt. Stabilizing aircraft by means of gyroscopic effects. No. 1,431,244; Oct. 10.
- Mendel, Michael, New York, N. Y. Sifting device. No. 1,402,520; Jan. 3.
- Mendel-Drucker Company, The. (See Luttmann, Joseph, assignor.)
- Mendelson, Max, New York, N. Y. Folding chair. No. 1,404,537; Jan. 24.
- Mendenhall, Charles A., Farmland, Ind. Resilient wheel. No. 1,433,396; Oct. 24.
- Mendenhall, Forrest C., Chicago, Ill. Back rest. No. 1,404,461; Jan. 24.
- Mendenhall, William P., East Orange, N. J. Tail-light and license-plate holder. No. 1,419,745; June 13.
- Mendez, Manuel J., Mexico, Mexico, assignor to W. H. Miner, Chazy, N. Y. Tandem draft gear for railway cars. No. 1,427,491; Aug. 29.
- Mendle, Milton D., assignor to American Fixture & Show-Case Mfg. Company, St. Louis, Mo. Display fixture. No. 1,430,666; Oct. 3.
- Mendler, Charles, San Francisco, Calif. Securing means. No. 1,412,480; Apr. 11.
- Mendler, Charles, San Francisco, Calif. Securing device. No. 1,412,481; Apr. 11.
- Mendoza, Arnulfo, Los Angeles, Calif. Toothbrush. No. 1,432,715; Oct. 17.
- Menefee, Harry R. (See McGill, P. K., and Menefee.)
- Meneley, Fred L. (See Girard, L. B., and Meneley.)
- Menendez Montes, Eduardo, Gijon, Spain. Can opener. No. 1,404,880; Jan. 31.
- Mengel Company, The. (See Moore, John A., assignor.)
- Mengel Company, The. (See Toal, Robert, assignor.)
- Mengel, William R., Chicago, assignor to C. J. Peterson, Oak Park, Ill. Optical projection apparatus. No. 1,434,219; Oct. 31.
- Menger, George, Oak Park, Ill. Heating device. No. 1,406,204; Feb. 14.
- Menges, Albert C., Memphis, Tenn., assignor to Menges Motors Company, Greenville, Miss. Vehicle spring. No. 1,411,640; Apr. 4.

- Menges Motors Company. (See Menges, Albert C., assignor.)
- Menk, George L., St. Louis, Mo. Air cooling and circulating device. No. 1,424,843; Aug. 8.
- Menke, Meinard A., Hagerstown, Md. Filter. No. 1,434,905; Nov. 7.
- Menkin, Max, New York, N. Y. Releasable self-fastening button. No. 1,427,614; Aug. 29.
- Menkin, Max, New York, N. Y. Powder puff. No. 1,437,473; Dec. 5.
- Mennie, Edward W., Detroit, Mich. Cotter-pin extractor. No. 1,434,557; Nov. 7.
- Mennie, Robert S., Chicago, Ill. Stay bolt. No. 1,438,845; Dec. 12.
- Mennie, Robert S., Chicago, Ill., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,424,733; Aug. 1.
- Mennillo, Ciro R., Los Angeles, Calif. Securing device for automobile spare wheels. No. 1,439,115; Dec. 19.
- Mensching, William H., Brooklyn, N. Y. Tool holder. No. 1,402,001; Jan. 3.
- Mensoian, George, Los Angeles, Calif. Display vehicle. No. 1,418,596; June 6.
- Menten, Theodore J., Brooklyn, N. Y. Retainer for indicator record charts. No. 1,414,296; Apr. 25.
- Mentzer, Buford F. (See Minick, W. L., and Mentzer.)
- Mentzer, John P., Chicago, Ill. Fuse device. No. 1,405,533; Feb. 7.
- Menzenwerth, Erwin G., St. Louis, Mo. Piston ring. No. 1,406,054; Feb. 7.
- Mepstead, George S., Mortlake, London, England. Friction driving gear for motor vehicles. No. 1,424,581; Aug. 1.
- Mercer, Frederick B. M., Toronto, and C. F. Bradburn, Tillsonburg, Ontario, Canada. Mill-spout gate. No. 1,427,834; Sept. 5.
- Mercer, Henry H., Claremont, N. H., assignor to Sullivan Machinery Company. Reel-driving mechanism. No. 1,409,896; Mar. 14.
- Mercer, Lewis F., Chicago, Ill. Traveler's safe. No. 1,412,253; Apr. 11.
- Mercer, William B. (See Towne, W. H., Thjomoe, and Mercer.)
- Merchant, Alexander, jr., Forres, Scotland. Jack for vehicles. No. 1,426,664; Aug. 22.
- Merchant, Melvin H., assignor to C. L. Jordan, Syracuse, N. Y. Tire-chain tightener. No. 1,404,213; Jan. 24.
- Mercier, Daniel, Annonay, Ardèche, France. Machine for the treatment of skins and leather. No. 1,411,056; Mar. 28.
- Mercier, Henri, Paris, France. Stabilizing means for suspended vehicles. No. 1,423,002; July 18.
- Mercier, Henri, Paris, France. Automobile axle and suspension therefor. No. 1,440,022; Dec. 26.
- Merckel, Charles O., Milwaukee, Wis. Clamp. No. 1,439,745; Dec. 26.
- Merdzinski, John, Grand Rapids, Mich. Extension table. No. 1,411,741; Apr. 4.
- Meredith, Howard. (See Meredith, John E., assignor.)
- Meredith, Jaquelin M., Jr., Norfolk, Va. Wheel rim. No. 1,415,670; May 9.
- Meredith, John E., assignor to H. Meredith, Birmingham, England. Label. No. 1,414,144; Apr. 25.
- Meredith, Milton E., et al. (See Taylor, Joseph H., assignor.)
- Meredith, Oscar G., East Goshen Township, Chester County, assignor of one-half to H. F. Taylor, West Chester, Pa. Animal trap. No. 1,402,002; Jan. 3.
- Meredith, William, Huntington Beach, and W. L. Foster, Whittier, Calif. Tubing catcher. No. 1,428,385; Sept. 5.
- Meredith, Wynn, Alameda, assignor to Petroleum Rectifying Company, San Francisco, Calif. Dehydrator. No. 1,428,178; Sept. 5.
- Meredith, Wynn, Alameda, assignor to Petroleum Rectifying Company, San Francisco, Calif. Automatic discharge means for dehydrators. No. 1,429,363; Sept. 19.
- Meredith, Wynn, Alameda, assignor to Petroleum Rectifying Company, San Francisco, Calif. Central circulation dehydrator for petroleum oils. No. 1,430,245; Sept. 26.
- Meredith, Wynn, Alameda, assignor to Petroleum Rectifying Company, San Francisco, Calif. Stratifying dehydrator. No. 1,430,246; Sept. 26.
- Mereen, Arno, Berkeley, Calif. Edger. No. 1,422,463; July 11.
- Mergenthaler Linotype Company. (See Beck, James H., assignor.)
- Mergenthaler Linotype Company. (See Kennedy, David S., assignor.)
- Mergenthaler Linotype Company. (See Marlatt, George E., assignor.)
- Mergenthaler Linotype Company. (See Rousseau, Joseph L., assignor.)
- Mergenthaler Linotype Company. (See Thompson, John S., assignor.)
- Mergott, J. E., Company, The. (See Fuller, Franz A., assignor.)
- Merickel, John W., Miami, Fla. Air and water dispensing apparatus. No. 1,406,471; Feb. 14.
- Merifield, Martin F., Hicksville, Ohio. Baby swing. No. 1,418,318; June 6.
- Merigold, William A., Jr., et al. (See Frey, George W., assignor.)
- Merithew, Jerry J., Akron, Ohio. Vacuum cleaner. No. 1,414,907; May 2.
- Merkel, Herman, East Orange, and J. Buecher, Newark, N. J.; said Buecher assignor to said Merkel. Fastening device for wooden boxes and the like. No. 1,410,210; Mar. 21.
- Merkler, Henry F., Granite City, assignor of one-half to W. B. Willis, East St. Louis, Ill. Railway rail. No. 1,438,323; Dec. 12.
- Merkle, Francis L., Portland, Me. Guard chain for pneumatic tires. No. 1,422,117; July 11.
- Merkle, Leon G., Linden, N. Y. Milk cooler. No. 1,418,957; June 6.
- Merkler, Joseph A. (See Reinhardt, T. H., and Merkler.)
- Merle, John. (See Wilson, Edwin, assignor.)
- Merlien, Hiram A., et al. (See Whitney, William A., assignor.)
- Merolle, Augustus L. (See Carvalho, L. R. N., and Merolle.)
- Merrefield, Glenn W., Johnstown, Pa. Thermit mixture. No. 1,430,667; Oct. 3.
- Merrell, Irving S., assignor to Merrell-Soule Company, Syracuse, N. Y. Condensing apparatus. No. 1,403,804; Jan. 17.
- Merrell, Irving S., assignor to Merrell-Soule Company, Syracuse, N. Y. Condensing apparatus. No. 1,406,055; Feb. 7.
- Merrell, Irving S., assignor to Merrell-Soule Company, Syracuse, N. Y. Condensing process and apparatus. No. 1,410,492; Mar. 21.
- Merrell, Irving S., assignor to Merrell-Soule Company, Syracuse, N. Y. Desiccated buttermilk. No. 1,430,312; Sept. 26.
- Merrell-Soule Company. (See Merrell, Irving S., assignor.)
- Mervett, Harold V., Milton West, Ontario, Canada. Clothes tray. No. 1,414,145; Apr. 25.
- Merriam, Charles F., Trenton, N. J. Producing educational photographs. No. 1,427,615; Aug. 29.
- Merriam, Cyrus B., assignor of one-half to J. A. Merriam, Detroit, Mich. Fastener. No. 1,432,482; Oct. 17.
- Merriam, James A. (See Merriam, Cyrus B., assignor.)
- Merrick, Frank W., Boston, Mass. Shoe upper and the like, and finishing the edges thereof. No. 1,406,673; Feb. 14.
- Merrick, Frank W., Boston, Mass. Guide or guard device for work-penetrating tools of sewing and other machines. No. 1,408,821; Mar. 7.
- Merrick, Silas C., New Brighton, Pa. Self-spreading cotter pin. No. 1,403,090; Jan. 10.
- Merrifield, M. L., et al. (See Curran, Oscar R., assignor.)
- Merrifield, W. G., et al. (See Curran, Oscar R., assignor.)
- Merrill, Alfred N., Oxford, N. J. Clutch lock. No. 1,425,404; Aug. 8.
- Merrill, Allan B., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Expandable tire-vulcanizing core. No. 1,435,970; Nov. 21.
- Merrill, Anna M., et al., administratrix. (See Merrill, Herbert W.)
- Merrill Company, The. (See Mills, Louis D., assignor.)
- Merrill, Cortez, Oelwein, Iowa. Bottle stopper. No. 1,416,227; May 16.
- Merrill, David R. (See Frazer, Lamb, and Merrill.)
- Merrill, Eugene A., Alhambra, Calif. Heater. No. 1,437,538; Dec. 5.
- Merrill, Frank H., Los Angeles, Calif. Purifying sodium carbonate and the like. No. 1,419,463; June 13.
- Merrill, George F., et al., administrator. (See Merrill, Herbert W.)
- Merrill, Herbert W., deceased, by A. M. Merrill, administratrix, and G. P. Merrill, administrator, Saginaw, Mich. Machine for making wood fiber. No. 1,431,319; Oct. 10.
- Merrill, Joseph J., Chicago, Ill., assignor to Corn Products Refining Company. Apparatus for manufacturing dextrin. No. 1,425,497; Aug. 8.
- Merrill, Joseph J., Chicago, Ill., assignor to Corn Products Refining Company. Method of and apparatus for manufacturing dextrin. No. 1,428,604; Sept. 12.
- Merrill, Orson E., Beloit, Wis. Interconvertible mower and sweeper device. No. 1,439,832; Dec. 26.
- Merrill Process Company, The. (See Macdonald, John W. F., assignor.)
- Merrill, Robert T., assignor to The Crown Ventilator Company, Milwaukee, Wis. Ventilator and chimney cap. No. 1,417,761; May 30.
- Merrill, Wilbur L., Schenectady, N. Y., assignor to General Electric Company. Automatic reversing control. No. 1,425,890; Aug. 15.
- Merriman, Henry H., Deckerville, Mich. Cultivator. No. 1,402,521; Jan. 3.
- Merriman, Henry H., Deckerville, Mich. Cultivator. No. 1,402,880; Dec. 10.
- Merritt, Benjamin F., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transfer tool for paper files. No. 1,420,050; June 20.
- Merritt, Edward L., Oakland, Calif. Lettering. No. 1,429,445; Sept. 19.
- Merritt, Frank W., and A. E. Watts, Duluth, Minn. Level-registering means. No. 1,422,118; July 11.
- Merritt, Matthew M., South Middleton, assignor to Merritt Metals Company, Salem, Mass. Electrolytically-coated wire. No. 1,405,534; Feb. 7.

Alphabetical list of patentees—Continued.

- Merritt, Matthew M., Middleton, assignor to Merritt Metals Company, Salem, Mass. Electrolytically-coated wire. No. 1,405,535; Feb. 7.
- Merritt Metals Company. (See Merritt, Matthew M., assignor.)
- Marrow Machine Company, The. (See Stedman, William H., assignor.)
- Merry, Ernest W., Sheffield, England, assignor to Pyrotan Leather Corporation, Wilmington, Del. Tanning hides and skins. No. 1,415,671; May 9.
- Merry, Ernest W., Sheffield, England, assignor, by mesne assignments, to Pyrotan Leather Corporation, Wilmington, Del. Tanning hides and skins. No. 1,427,221; Aug. 29.
- Merrymann, William E., Richmond, Ind. Nut lock. No. 1,434,558; Nov. 7.
- Mersch, Chris M., Litchville, N. Dak. Lock. No. 1,435,124; Nov. 7.
- Mersfelder, William L., Detroit, Mich. Furnace. No. 1,416,111; May 16.
- Mershon, John H., and W. T. Jeffries, Van Alstyne, Tex. Vapor generating and burning apparatus. No. 1,438,846; Dec. 12.
- Mershon, Ralph D., New York, N. Y. Electrolytic apparatus. No. 1,433,736; Oct. 31.
- Mershon, Ralph D., New York, N. Y. Electrolytic condenser. No. 1,437,189; Nov. 28.
- Mershon, Ralph D., New York, N. Y. Excitation of electrolytic condensers. No. 1,439,525; Dec. 19.
- Mershon, Ralph D., New York, N. Y. Excitation of electrolytic condensers. No. 1,439,526; Dec. 19.
- Merson, James. (See Skelley, J. M., and Merson.)
- Mertens, Roy A. (See Williams, Elbert L., assignor.)
- Merting, Karl. (See Yale, R. H., Hutchins, and Merting.)
- Mertz, Boyd F. and G. P., Northumberland, Pa. Grater. No. 1,414,657; May 2.
- Mertz, Frank, assignor of one-half to C. S. Mishler, Johnstown, Pa. Windshield wiper. No. 1,403,703; Jan. 17.
- Mertz, George P. (See Mertz, Boyd F. and G. P.)
- Mertzinger, Pierre W., Malakoff, France. Headlight. No. 1,418,319; June 6.
- Merwin, Eugene D., Seattle, Wash. Sand washer and separator. No. 1,410,340; Mar. 21.
- Merwin, George M. (See Benjamin, B. R., and Merwin.)
- Merwin, George M., Berwyn, Ill., assignor to International Harvester Company. Snapping roll. No. 1,433,020; Oct. 24.
- Merwin, Newton D., assignor of one-half to P. W. Porter, Higganum, Conn. Plane iron. No. 1,419,400; June 13.
- Merz, Charles H., et al. (See Michie, A. C., and Weeks, assignors.)
- Merz, Jacob, Chicago, Ill. Device for repairing pneumatic tires. No. 1,414,091; Apr. 25.
- Merz, Jacob, Chicago, Ill. Spare-tire holder. No. 1,417,678; May 30.
- Merz, Jacob, assignor to Perpetual Air Bag Company, Chicago, Ill. Air bag. No. 1,414,090; Apr. 25.
- Merzenich, William T., Minneapolis, Minn. Grain separator. No. 1,416,489; May 16.
- Mesaros, John, Wheeling, W. Va. Tobacco pipe. No. 1,423,620; July 25.
- Meserole, Milton D., assignor to Hayes & Meserole Mfg. Co., Milford, Conn. Hair curler. No. 1,416,301; May 16.
- Meserole, Milton D., Milford, assignor to Hayes & Meserole Mfg. Co., New Haven, Conn. Barrette. No. 1,422,464; July 11.
- Meserole, Milton D., assignor to Hayes & Meserole Mfg. Co., Milford, Conn. Hair curler. No. 1,437,347; Nov. 28.
- Mesinger, Frederick, New York, N. Y. Drive belt. No. 1,424,767; Aug. 8.
- Mesinger, Frederick, New York, N. Y. Link belt. No. 1,424,768; Aug. 8.
- Mesker, Bernard T., assignor to Mesker Brothers Iron Company, St. Louis, Mo. Metal casket. No. 1,421,018; June 27.
- Mesker Brothers Iron Company. (See Mesker, Bernard T., assignor.)
- Mesker Brothers Iron Company. (See Mesker, F., and Beuc, assignors.)
- Mesker, Frank, and J. Beuc, assignors to Mesker Brothers Iron Company, St. Louis, Mo. Metal window construction. No. 1,421,019; June 27.
- Messenger, Jack E., Des Moines, Iowa. Shutter for automobile radiators. No. 1,428,647; Sept. 12.
- Messenger, Jane, Pacific Grove, Calif. Ornamental insect. No. 1,408,017; Feb. 28.
- Messer, Peter J., Olean, N. Y. Display device. No. 1,431,019; Oct. 3.
- Messer, Peter J., Olean, N. Y. Intermittent mechanism. No. 1,435,319; Nov. 14.
- Messer, Peter J., Olean, N. Y. Display device. No. 1,435,937; Nov. 21.
- Messina, Angelo C. (See Messina, Joseph and A. C.)
- Messina, Joseph and A. C., Pittsburgh, Pa. Lock. No. 1,435,320; Nov. 14.
- Messman, Frederick J., Chicago, Ill. Automatic coffee and cream urn and faucet. No. 1,413,755; Apr. 25.
- Messner, William C., Green Bay, Wis. Diestock-oiling handle. No. 1,404,784; Jan. 31.
- Messrs. Reid Press Limited. (See Allan, Richard S., assignor.)
- Messier, Oskar, Berlin, Germany. Apparatus for the production of cinematographic picture series. No. 1,432,405; Oct. 17.
- Mestekin, Bernard, Washington, D. C. Gem setting. No. 1,440,229; Dec. 26.
- Mestekin, Bernard, Washington, D. C. Link for chain bracelets and detachable hinges for the same. No. 1,440,230; Dec. 26.
- Mészáros, John, and F. Molnár, Glenalun, W. Va. Rail fastener. No. 1,404,992; Jan. 31.
- Metal Craft Company. (See Walker, Hugh D., assignor.)
- Metal Recording Disc Company. (See Wadsworth, Henry L., assignor.)
- Metal Saw and Machine Co. (See Stowell, Byron F., assignor.)
- Metal & Thermit Corporation. (See Kardos, Emanuel, assignor.)
- Metal & Thermit Corporation. (See Lubowsky, Simon J., assignor.)
- Metal & Thermit Corporation. (See Meinersmann, William, assignor.)
- Metal & Thermit Corporation. (See Paul, Ira, assignor.)
- Metallbank und Metallurgische Gesellschaft, Aktiengesellschaft. (See Kaisser, Karl, assignor.)
- Metallie Industries, Inc. (See Christopher, Arthur B., assignor.)
- Metallic Shaft Company, The. (See Lard, Allan E., assignor.)
- Metalurgical Plant Construction Company Limited. (See Lavaud, Clark, and Baines, assignors.)
- Metals Extraction Corporation, The. (See Field, Samuel, assignor.)
- Metals Recovery Company. (See Sayre, Ralph E., assignor.)
- Metals Recovery Company. (See Schwarz, Alfred, assignor.)
- Metals Repair and Supply Company. (See Heacox, Ross D., assignor.)
- Metcalfe, Alpha H., assignor to H. A. Allen & Co., Attleboro, Mass. Belt buckle. No. 1,429,155; Sept. 12.
- Metcalfe, Benjamin A. (See Nelson, Leon J., assignor.)
- Metcalfe, Cyrus W., Greenriver, Utah. Automobile extractor. No. 1,432,077; Oct. 17.
- Metcalfe, Earl H., New York, N. Y. Filing cabinet. No. 1,433,836; Oct. 31.
- Metcalfe, Eloise H., Baltimore, Md. Closet attachment. No. 1,402,307; Jan. 3.
- Metcalfe, Florence D. (See Metcalfe, Louie F., assignor.)
- Metcalfe, Louie F., assignor to F. D. Metcalfe, Greenville, Ala. Union working garment. No. 1,411,119; Mar. 28.
- Metcalfe, Louie F., assignor to F. D. Metcalfe, Greenville, Ala. Union working garment. No. 1,411,120; Mar. 28.
- Metcalfe, Walter M., Liverpool, England. Self-propelled vehicle. No. 1,404,462; Jan. 24.
- Metcalfe, Mortimer D., New York, N. Y., assignor, by mesne assignments, to G. Seeber, sr., Elizabeth, N. J. Secondary clock. No. 1,432,566; Oct. 17.
- Metcalfe, Robert F., Erie, Pa. Engine. No. 1,406,205; Feb. 14.
- Metcalfe, Robert F., Erie, Pa. Burner. No. 1,416,734; May 23.
- Metcalfe, Robert F., Erie, Pa. Controlling device for boiler furnaces. No. 1,422,369; July 11.
- Metcalfe, Robert F., assignor to Skinner Engine Company, Erie, Pa. Burning fuel and apparatus therefor. No. 1,402,243; Jan. 3.
- Metcalfe, Robert F., assignor to Skinner Patent Holding Company, Erie, Pa. Fuel nozzle. No. 1,436,351; Nov. 21.
- Metcalfe, Sydney A., Chicago, Ill. Toy building construction. No. 1,426,087; Aug. 15.
- Meteor Mixing Machine Co. (See Trust, Josephine and H., assignors.)
- Metheny, Jesse J., assignor of one-half to J. L. Burns, Stuart, Iowa. Attachment for fuel tanks. No. 1,432,714; Oct. 17.
- Methot, Homer, Red Bank, N. J. Washing machine. No. 1,402,634; Jan. 3.
- Metropolitan Edison Company. (See Spangler, Charles H., assignor.)
- Metropolitan Electric Manufacturing Company. (See Elditz, Charles L., assignor.)
- Metropolitan Electric Manufacturing Company. (See Winklehaus, Frederick O., assignor.)
- Metropolitan Engineering Company, et al. (See Ostrander, A. E., and Williams, assignors.)
- Metropolitan Sewing Machine Corporation. (See Weis, John P., assignor.)
- Metallbank und Metallurgische Gesellschaft Aktiengesellschaft. (See Schopper, Walter, assignor.)
- Metternich, Alice M., Chicago, Ill. Illuminating means for vanity cases. No. 1,432,297; Oct. 17.
- Mettler, Christoph, Sr., Menno, S. Dak., assignor to The Wonder Grain Cleaner Company, St. Paul, Minn. Grain cleaner. (Reissue.) No. 15,275; Jan. 24.
- Metz, Archie J., Cincinnati, Ohio. Lock block for steel bed springs. No. 1,412,482; Apr. 11.
- Metz, Henry. (See Schwarz, John J., assignor.)
- Metz, Herman A. (See Myers, Chester N., assignor.)
- Metz, Hermann, A. (See Schirmacher, Karl, assignor.)
- Metz, William F. (See Bradley, J. G., and Metz, assignors.)
- Metzgar, Chester W., Easton, Pa., assignor to Ingersoll-Grand Company, Jersey City, N. J. Valve-seat retainer. No. 1,411,795; Apr. 4.

- Metzgar, Chester W., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Fluid compressor. No. 1,427,835; Sept. 5.
- Metzgar, Chester W., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Fluid compressor. No. 1,430,577; Oct. 3.
- Metzgar, Chester W., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Compressor regulator. No. 1,430,578; Oct. 3.
- Metzger, Charles, assignor of one-third to L. Leicht and one-third to J. Walter, Yonkers, N. Y. Sled attachment. No. 1,410,701; Mar. 28.
- Metzger, Charles T. (See Kramer, J., Kuehne, and Metzger.)
- Metzger, Floyd J., New York, N. Y., assignor to Air Reduction Company, Incorporated. Transportation of hydrocyanic acid. No. 1,408,757; Mar. 7.
- Metzger, Floyd J., New York, N. Y., assignor to Air Reduction Company, Inc. Acetylene tank. No. 1,419,746; June 13.
- Metzger, Floyd J., assignor to Air Reduction Company, New York, N. Y. Retort. No. 1,422,878; July 18.
- Metzger, Floyd J., New York, N. Y., assignor to Air Reduction Company, Incorporated. Signal device. No. 1,437,436; Dec. 5.
- Metzger, Floyd J., New York, N. Y., assignor to Air Reduction Company, Inc. Production of alkali-metal cyanides. No. 1,439,909; Dec. 26.
- Metzger, Fritz L., Avalon, Pa. Spacing bar. No. 1,421,807; July 4.
- Metzger, John, assignor to Security Amusement Engineering Corporation, Los Angeles, Calif. Amusement apparatus. No. 1,419,578; June 13.
- Metzger, Maurice, Montreal, Quebec, Canada. Film-splicing machine. No. 1,437,348; Nov. 28.
- Metzger, Modeste A. (See Jernberg, C. R., Metzger, and Larson.)
- Metzger, Stanley G., Hale, England. Pneumatic piano and organ player. No. 1,412,061; Apr. 11.
- Metzger, Willye C., Mobile, Ala. Ash pan. No. 1,424,508; Aug. 1.
- Metzler, Frederick C., Shoshone, Wyo. Tail-docking device. No. 1,425,671; Aug. 15.
- Metzler, John B. (See Lutzmann, Friedrich, assignor.)
- Metzner, Albert W. (See Sherman, J. Q., and Metzner.)
- Meuer, George J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,436,045; Nov. 21.
- Meunier, Charles, Great Neck, N. Y. Gutter hanger. No. 1,438,127; Dec. 5.
- Meunier, Charles, Great Neck, L. I., N. Y. Gutter hanger. No. 1,438,774; Dec. 12.
- Meunier, Leon F. (See Chapuy, A., and Meunier.)
- Meunier, Roswell M., Tomahawk, Wis. Lock. No. 1,404,463; Jan. 24.
- Meurer Steel Barrel Company. (See Reynolds, Henry S., assignor.) (Reissue.)
- Meutsch, Charles C., Chicago, Ill. Upholstered curved arm, back, seat, etc. No. 1,414,824; May 2.
- Meutsch, Charles C., Chicago, Ill. Cushion-making machine. No. 1,414,825; May 2.
- Meuvly, John J., Chicago, Ill. Automatic expandible engine connecting-rod pin. No. 1,410,493; Mar. 21.
- Meyenberg, William H., Lemont, assignor to J. J. Bleadon, Chicago, Ill. Electromedical apparatus. No. 1,431,675; Oct. 10.
- Meyer, A. F., Mfg. Co. (See Hauter, William B., assignor.)
- Meyer, Adolf A., New York, N. Y. Pattern and making the same. No. 1,434,906; Nov. 7.
- Meyer, Adolph F., St. Paul, Minn. Spring. No. 1,404,464; Jan. 24.
- Meyer, Anthony J., St. Louis, Mo. Metal shelving construction. No. 1,435,321; Nov. 14.
- Meyer, Arnold, New York, N. Y. Electric connector. No. 1,433,397; Oct. 24.
- Meyer, Arthur R., and E. A. Reed, Chicago, Ill., assignors to Wilson-Jones Loose Leaf Company. Shifting-post binder. No. 1,439,479; Dec. 19.
- Meyer, Aubrey E., White Plains, N. Y. Combing device for textile fibers. No. 1,429,519; Sept. 19.
- Meyer, August, Minneapolis, Minn., and P. R. Walsh, assignors, by mesne assignments, to Duplex Holding Company, St. Louis, Mo. Method of and apparatus for treating timber and the like. No. 1,422,119; July 11.
- Meyer, Carl H., Washington, Pa. Roller attachment for sleds. No. 1,412,413; Apr. 11.
- Meyer, Christian F., Reading, assignor to Textile Machine Works, Wyomissing, Pa. Needle bar for full-fashioned machines. No. 1,420,857; June 27.
- Meyer, Emil C. W., Cleveland, Ohio. Nonskid device for horseshoes. No. 1,420,331; June 20.
- Meyer, Eugene, et al. (See Perkins, Frank C., assignor.)
- Meyer, Felix E. (See Geldermann, H., and Meyer.)
- Meyer, Frank E., St. Paul, Minn. Typewriter and card puncher combined. No. 1,439,134; Dec. 19.
- Meyer, Frank W., assignor to The Oshkosh Trunk Company, Oshkosh, Wis. Shoe box for trunks. No. 1,412,563; Apr. 11.
- Meyer, Frank W., assignor to The Oshkosh Trunk Company, Oshkosh, Wis. Trunk-locking device. No. 1,412,564; Apr. 11.
- Meyer, Franz, assignor to the Firm of Carl Zeiss, Jena, Germany. Iris diaphragm. No. 1,411,219; Mar. 28.
- Meyer, Fred G. (See Johnson, C., and Meyer.)
- Meyer, Fred G., Detroit, Mich. Bottle-capping machine. No. 1,403,971; Jan. 17.
- Meyer, Fred G., Detroit, Mich. Bottle-capping machine. No. 1,425,672; Aug. 15.
- Meyer, Frederick, Buffalo, N. Y. Combined door lock and latch. No. 1,415,104; May 9.
- Meyer, Friedrich W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Apparatus for producing modified currents, etc. No. 1,408,118; Feb. 28.
- Meyer, Friedrich W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Operation, regulation, and control of dynamo-electric machines. No. 1,408,758; Mar. 7.
- Meyer, Friedrich W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controlling and regulating apparatus and system. No. 1,410,702; Mar. 28.
- Meyer, Friedrich W., Madison, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Method and apparatus for measuring the flow of fluids. No. 1,411,796; Apr. 4.
- Meyer, Friedrich W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controlling and regulating apparatus for alternating-current dynamo-electric machines. No. 1,411,862; Apr. 4.
- Meyer, Friedrich W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controlling and regulating apparatus and system. No. 1,420,858; June 27.
- Meyer, Friedrich W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Regulating and control apparatus and system. No. 1,422,120; July 11.
- Meyer, Friedrich W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Control means for electromagnetic hammers and the like. No. 1,433,962; Oct. 31.
- Meyer, Fritz. (See Hocke, Johann, assignor.)
- Meyer, George H., et al. (See Perkins, Frank C., assignor.)
- Meyer, George J., Milwaukee, Wis. Door hanger. No. 1,402,944; Jan. 10.
- Meyer, George J., Milwaukee, Wis. Bottle-washing machine. No. 1,429,960; Sept. 26.
- Meyer, George L. N., Milwaukee, Wis. Cafeteria? No. 1,412,254; Apr. 11.
- Meyer, George W., and C. A. Roos, Cincinnati, Ohio. Adjustable shore. No. 1,415,602; May 9.
- Meyer, Gustav, and A. Haacke, St. Louis, Mo. Truing apparatus for connecting rods of crank shafts. No. 1,404,782; Jan. 31.
- Meyer, Harold J., St. Joseph, Mo. Dispensing and display device. No. 1,402,635; Jan. 3.
- Meyer, Harry R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Mounting of control apparatus. No. 1,416,046; May 16.
- Meyer, Harry R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,416,047; May 16.
- Meyer, Henry A., assignor to The Wolf Electrical Promoting Company, Cincinnati, Ohio. Cloth-cutting machine. No. 1,435,125; Nov. 7.
- Meyer, Henry R., Cedar Rapids, Iowa. Folding ironing board. No. 1,425,030; Aug. 8.
- Meyer, Hermann, Berlin, assignor to August Riedinger, Ballonfabrik Augsburg Aktiengesellschaft, Augsburg, Germany. Collapsible boat. No. 1,419,464; June 13.
- Meyer, John, and Fred J. Manseau, Cottonwood, Idaho. Combined wagon and automobile truck dumping and weighing platform. No. 1,403,805; Jan. 17.
- Meyer, John F. (See Bennett, George W., assignor.)
- Meyer, John G., Baltimore, Md. Gas water radiator. No. 1,402,522; Jan. 3.
- Meyer, John P., West Hoboken, N. J. Window-cleaning device. No. 1,409,055; Mar. 7.
- Meyer, Joseph A., Newark, N. J. Leather-splitting machine. No. 1,410,703; Mar. 28.
- Meyer, Joseph A., Newark, N. J. Leather-splitting machine. No. 1,434,019; Oct. 31.
- Meyer, Leo P., et al. (See Perkins, Frank C., assignor.)
- Meyer, Ludwig F., Cleveland, Ohio. Wrench. No. 1,405,795; Feb. 7.
- Meyer, Nathan S., New York, N. Y. Button. No. 1,407,945; Feb. 28.
- Meyer, Orval C., Vincennes, Ind. Vehicle light. No. 1,404,041; Jan. 17.
- Meyer, Robert, assignor to Societe Les Etablissements Ponlone Freres, Paris, France. Manufacture of diaminoacridine. No. 1,410,494; Mar. 21.
- Meyer, Robert F. A., New York, N. Y. Door and window lock. No. 1,426,896; Aug. 22.
- Meyer, Robert T., Canton, Ohio. Separator. No. 1,402,783; Jan. 10.
- Meyer, Roy M., Chicago, Ill. Map cabinet. No. 1,438,128; Dec. 5.
- Meyer, Samuel N., New York, N. Y. Collapsible rim. No. 1,428,386; Sept. 5.
- Meyer, Siegfried, New York, N. Y. Ash tray and receptacle. No. 1,422,879; July 18.
- Meyer, Svend M., and W. James, Brooklyn, assignors to Magno Storage Battery Corporation, New York, N. Y. Alloy. No. 1,425,330; Aug. 8.
- Meyer, Svend M., and W. James, Brooklyn, assignors to Magno Storage Battery Corporation, New York, N. Y. Storage battery. No. 1,437,986; Dec. 5.
- Meyer, Svend M., and W. James, Brooklyn, assignors to Magno Storage Battery Corporation, New York, N. Y. Storage battery. No. 1,440,023; Dec. 26.

Alphabetical list of patentees—Continued.

- Meyer, Svend M., and W. James, Brooklyn, assignors to Magno Storage Battery Corporation, New York, N. Y. Storage battery. No. 1,440,024; Dec. 26.
- Meyer, William, Rosedale, Kans. Change maker. No. 1,413,756; Apr. 25.
- Meyer, William, Chicago, Ill. X-ray stand. No. 1,414,658; May 2.
- Meyer, William, Chicago, Ill. Therapeutic apparatus. No. 1,430,095; Sept. 26.
- Meyer, William, Chicago, Ill. X-ray apparatus. No. 1,430,096; Sept. 26.
- Meyer, William C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Wax-thread sewing machine. No. 1,406,206; Feb. 14.
- Meyer, William C., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Wax-thread sewing machine. No. 1,409,193; Mar. 14.
- Meyer, William C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sewing machine. No. 1,411,797; Apr. 4.
- Meyer, William C., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sewing machine. No. 1,411,798; Apr. 4.
- Meyer, William C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. No. 1,429,520; Sept. 19.
- Meyer, William C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sewing machine. No. 1,431,973; Oct. 17.
- Meyer, William H., (See Ireland, W. S., and Meyer.)
- Meyer, William H., St. Louis, Mo. Motion-picture projector. No. 1,413,050; Apr. 18.
- Meyer, William H., St. Louis, Mo., assignor, by mesne assignments, to The Davis Sewing Machine Company. Clothes wringer. No. 1,402,244; Jan. 3.
- Meyer, William H., St. Louis, Mo., assignor, by mesne assignments, to The Davis Sewing Machine Company. Washing machine. No. 1,412,292; Apr. 11.
- Meyer, William H., St. Louis, Mo., assignor, by mesne assignments, to The Davis Sewing Machine Company. Clothes wringer. No. 1,418,821; June 6.
- Meyer, William K., New York, N. Y. Necktie. No. 1,412,665; Apr. 11.
- Meyercord, George R., Chicago, Ill., assignor to Haskellite Manufacturing Corporation, a Corporation of New York. Method of and apparatus for gluing sheets edge to edge. No. 1,418,597; June 6.
- Meyering, J. V., Trunk Company. (See Hamlin, Ben M., assignor.)
- Meyers, Albert J., Seattle, Wash. Pipe wrench. No. 1,437,539; Dec. 5.
- Meyers, George F., New York, N. Y. Hoisting apparatus. No. 1,427,310; Aug. 29.
- Meyers, Herbert H., (See MacDowell, C. H., and Meyers.)
- Meyers, Herbert H., (See MacDowell, C. H., Meyers, and Pattison.)
- Meyers, J. Nicholas, Philadelphia, Pa. Educational device. No. 1,419,882; June 13.
- Meyers, J. Nicholas, Philadelphia, Pa. Tracing device. No. 1,421,975; July 4.
- Meyers, John F., assignor to The Buckeye Twist Drill Company, Alliance, Ohio. Drill-twisting method and machine. No. 1,428,387; Sept. 5.
- Meyers, John M., Janesville, Wis., assignor to General Motors Corporation, Detroit, Mich. Tractor. No. 1,417,193; May 23.
- Meyers, John M., Janesville, Wis., assignor to General Motors Corporation, Detroit, Mich. Farm tractor. No. 1,428,854; Sept. 12.
- Meyers, John M., Janesville, Wis., assignor to General Motors Corporation, Detroit, Mich. Self-cleaning tractor driving wheel. No. 1,434,354; Oct. 31.
- Meyers, John W., Elyria, Ohio. Reversible interchangeable rubber heel. No. 1,417,275; May 23.
- Meyers, Julius R., Glencoe, Ill. Cheese mold. No. 1,402,782; Jan. 10.
- Meyers, Julius R., Glencoe, Ill. Forming cheese. No. 1,415,942; May 16.
- Meyers, Julius R., Glencoe, Ill. Making cheese. No. 1,415,943; May 16.
- Meyers, Julius R., Evanston, Ill. Cheese packing. No. 1,415,944; May 16.
- Meyers, Julius R., Glencoe, Ill. Cheese mold. No. 1,434,396; Nov. 7.
- Meyers, Louis, New York, N. Y. Wardrobe-trunk rack. No. 1,405,341; Jan. 31.
- Meyers, Louis, Brooklyn, N. Y. Lock. No. 1,411,220; Mar. 28.
- Meyers, William H., (See Leech, F. J., and Meyers.)
- Meyerson, Max, New York, N. Y. Tool box. No. 1,414,826; May 2.
- Meyerson, Max, New York, N. Y. Folding carrier. No. 1,431,974; Oct. 17.
- Meyrowitz, Emil B., Ridgefield, N. J. Goggles. No. 1,432,406; Oct. 17.
- Mezger, Charles P., Glenburnie, Md. Printing device. No. 1,428,795; Sept. 12.
- Mhoon, McKee, Lindsay, Calif. Radiator water gauge. No. 1,439,969; Dec. 26.
- Miami Cycle & Mfg. Co., The. (See Heise, Roscoe S., assignor.)
- Micha, Léon, Antwerp, Belgium. Elastic wheel. No. 1,426,587; Aug. 22.
- Michael, Alfred, assignor to Eagle Pencil Company, New York, N. Y. Pencil. No. 1,406,056; Feb. 7.
- Michael, Preston E., (See Green, Elmer E., assignor.)
- Michael, Robert E., Los Angeles, Calif. Vacuum duster. No. 1,433,021; Oct. 24.
- Michael, Robt. W., (See Feller, Adolph F., assignor.)
- Michael, Willis R., York, Pa. Lock. No. 1,429,609; Sept. 19.
- Michaels, Charles, New York, N. Y. Radiator guard. No. 1,411,121; Mar. 28.
- Michaels, Chauncey A., New York, N. Y., assignor of one-half to A. H. Swank, Fremont, Ohio. Holder for towels and other articles. No. 1,409,056; Mar. 7.
- Michaels, Joseph, St. Louis, Mo. Safety hatpin. No. 1,413,231; Apr. 18.
- Michaels, Maurice A., (See Millard, R. W., and Michaels.)
- Michaels, Maurice A., assignor to J. Panigot, Meriden, Conn. Ball caster. No. 1,438,543; Dec. 12.
- Michaelsen, William H., Mount Vernon, N. Y. Mechanical connector. No. 1,422,880; July 18.
- Michaelson, Nelson A., Uniontown, Pa. Mine cage. No. 1,433,022; Oct. 24.
- Michalczyk, Wladyslaw, Elizabethport, N. J. Boring tool. No. 1,436,974; Nov. 28.
- Michalek, John, Chicago, Ill. Lock. No. 1,416,855; May 23.
- Michalick, Fred, Ely, Iowa. Musical toy. No. 1,417,343; May 23.
- Michalski, Joseph J., Buffalo, N. Y. Theft detector for automobiles. No. 1,412,483; Apr. 11.
- Michalski, Joseph J., Buffalo, N. Y. Theft detector for automobiles. No. 1,414,521; May 2.
- Michalski, Joseph J., Buffalo, N. Y. Theft detector for automobiles. No. 1,419,401; June 13.
- Michalski, Julius L., Milwaukee, Wis. Display device. No. 1,407,874; Feb. 28.
- Michalski, Teofil, Manville, N. J. Water skate. No. 1,413,602; Apr. 25.
- Michaud, Joseph O., Fort Kent, Me. Vehicle transmission mechanism. No. 1,431,020; Oct. 3.
- Michel, Joseph A., (See Hallock, Edward F., assignor.)
- Michel, Max., (See Keller, Theodore, assignor.) (Re-issue.)
- Michelin, André J., Paris, France. Manufacturing vehicle wheels. No. 1,413,051; Apr. 18.
- Michelin, André J., Clermont-Ferrand, France. Valve attachment for pneumatic tires. No. 1,430,461; Sept. 26.
- Michelin, André J., Paris, France. Pneumatic tire. No. 1,432,483; Oct. 17.
- Michelin, André J., Paris, France. Brake-drum wheel. No. 1,439,571; Dec. 19.
- Michelis, Otto A., Detroit, Mich. Wire loop. No. 1,428,701; Sept. 12.
- Michell, Anthony G. M., Melbourne, Victoria, Australia. Mechanism for the interconversion of reciprocating and rotary motion. No. 1,409,057; Mar. 7.
- Michell, Anthony G. M., Melbourne, Victoria, Australia. Crankless reciprocating mechanism. No. 1,418,598; June 6.
- Michell, Anthony G. M., Melbourne, Victoria, Australia, assignor to Michell Bearings Limited, Westminster, England. Method and apparatus for pumping fluids. No. 1,421,976; July 4.
- Michell Bearings Limited. (See Michell, Anthony G. M., assignor.)
- Michell Bearings Limited. (See Newbigin, Henry T., assignor.)
- Michell, Carl H., (See Whipple, Ralph, assignor.)
- Michelsen, Henry C., Yonkers, N. Y. Internal-combustion engine. No. 1,406,271; Feb. 14.
- Michelsen, Michael, Newport News, Va. Horseshoe. No. 1,416,658; May 16.
- Michie, Arthur C., Newcastle-upon-Tyne, and E. G. Weeks, Northumberland, assignors to C. H. Merz and W. McLellan, Westminster, London, England. Low-temperature distillation. No. 1,423,134; July 18.
- Michigan Malleable Iron Company. (See Waterbor, E. F., and Simpson, assignors.)
- Michigan Mutual Liability Company. (See Brower, Willis A., assignor.)
- Michigan Steel Tube Products Co. (See Berg, Richard O. and S., assignors.)
- Michigan Stove Company, The. (See Maul, Henry C., assignor.)
- Michna, Nicholas A., Chicago, Ill. Winter inclosure for automobiles. No. 1,425,031; Aug. 8.
- Michon, Joseph H. M., Toledo, Ohio. Accelerator. No. 1,404,785; Jan. 31.
- Michot, Georges, Dromara, Ireland, assignor to Fibre Corporation Limited, London, England. Scutching machine for flax and other fibrous materials. No. 1,429,753; Sept. 19.
- Michot, Georges, Dromara, Ireland, assignor to The Fibre Corporation, Limited, London, England. Machine for deseeding flax. No. 1,436,185; Nov. 21.
- Michoud, Arnold, Yverdon, Switzerland. Self-indicating target. No. 1,402,523; Jan. 3.
- Michoud, Arnold, Yverdon, assignor to firm: Société Cibles Automatiques Michoud S. A., Neuchâtel, Switzerland. Target apparatus. No. 1,406,674; Feb. 14.

- Mickels, Selim A., and A. Newnam, Oakland, Calif. Fruit picker. No. 1,418,599; June 6.
- Mickelson, Alfred O., Chicago, Ill. Advertising device. No. 1,418,157; May 30.
- Mickelson, Martin, Muskegon Heights, Mich. Elevator device. No. 1,415,603; May 9.
- Mickley, Karl, assignor to the Firm Alfred Joël & Co., Zurich, Switzerland. Shock absorber. No. 1,421,977; July 4.
- Mcclausch, Alexander, Cleveland, Ohio. Portable oil stove. No. 1,440,309; Dec. 26.
- Micon, David, Benton Harbor, Mich. Method and apparatus for filling roll edges. No. 1,428,796; Sept. 12.
- Micon, David, Benton Harbor, Mich. Mattress. No. 1,428,797; Sept. 12.
- Middaugh, Elmer, Canton, Ohio. Automobile-radiator shield. No. 1,404,786; Jan. 31.
- Middlebrook, Owen B., et al. (See Currie, Jasper J., assignor.)
- Middlemiss, Bruce A., Chuquiqui Camata, Chile, assignor to Chile Exploration Company, New York, N. Y. Excavating machinery. No. 1,405,796; Feb. 7.
- Middleton, Charles J., assignor to The Foxboro Company, Foxboro, Mass. Measuring instrument. No. 1,403,972; Jan. 17.
- Middleton, Ferris A., San Francisco, Calif. Automatic driver. No. 1,417,624; May 30.
- Middleton, Guy N. (See Stuart, A. T., and Middleton.)
- Middleton, Harry C. (See Williams, J. N., and Middleton.)
- Middleton, Percy R., assignor of one-half to J. C. Lalor, New York, N. Y. Treating silver-bearing ores or residues. No. 1,403,516; Jan. 17.
- Mid-East Specialty Company. (See Johnson, Fred I., assignor.)
- Midgley, Albert H., assignor of one-half to C. A. Vanderbilt & Company, Limited, Acton Vale, England. Self-regulating continuous-current dynamo. No. 1,419,071; June 6.
- Midgley, Ephraim A., Salt Lake City, Utah. Reamer and burrer. No. 1,414,480; May 2.
- Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Bead construction. No. 1,403,091; Jan. 10.
- Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Vulcanizing equipment. No. 1,417,551; May 30.
- Midgley, Thomas, Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Device for removing cores from tire casings. No. 1,438,930; Dec. 12.
- Midgley, Thomas, Jr., Lancaster, assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Hydrometer. No. 1,412,884; Apr. 18.
- Midgley, Thomas, Jr., assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Fuel tank. No. 1,424,369; Aug. 1.
- Midgley, Thomas, Jr., assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Hydrometer. No. 1,432,773; Oct. 24.
- Midgley, Thomas, Jr., assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. System of control. No. 1,435,132; Nov. 7.
- Midland Company, The. (See Schartow, Frank E., assignor.)
- Midland Supply Company, The. (See McMullen, Robert V.)
- Midland Supply Company, The. (See Moyer, Virgil W., assignor.)
- Midson, James J., South Brisbane, Queensland, Australia. Bottle. No. 1,428,969; Sept. 12.
- Midura, Stanislaw, Perth Amboy, N. J. Key for brake shoes and hangers. No. 1,438,049; Dec. 5.
- Mid-West Box Company. (See Fairchild, Walter H., assignor.)
- Mid-West Box Company. (See Heinrichs, Berg, assignor.)
- Midwest Engine Company. (See Sargent, Charles E., assignor.)
- Midwest Engine Company. (See Schleyer, Victor, assignor.)
- Midwest Engine Company. (See Steele, Frederick P., assignor.)
- Midwest Engine Company. (See Wait, Henry H., assignor.)
- Mid-West Publishing Company. (See Le Roy, Edgar D., assignor.)
- Midwest Steel and Supply Company, Inc. (See Jordahl, Anders, assignor.)
- Miehle Printing Press & Manufacturing Co. (See Blaine, Joseph R., assignor.)
- Miehle Printing Press and Manufacturing Company, The. (See Dudley, Edward F., assignor.)
- Miehle Printing Press and Manufacturing Company. (See Stevens, Burt D., assignor.)
- Miehle Printing Press and Manufacturing Company et al. (See White, Joseph, assignor.)
- Mientkiewicz, Ignatz, Waterbury, Conn. Rail joint and fastener. No. 1,409,058; Mar. 7.
- Miescher, Karl, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Aminoalcohol of the quinoline series and making same. No. 1,434,806; Oct. 31.
- Miessner, Benjamin F., New York, N. Y. Speaking-tube apparatus for aircraft. No. 1,418,388; June 6.
- Miethe, Carl, Chicago, Ill. Vehicle spring wheel. No. 1,421,808; July 4.
- Mieville, Herbert C., assignor to Federal System of Bakeries of America, Inc., Davenport, Iowa. Heating system. No. 1,410,025; Mar. 21.
- Mieville, Herbert C., New York, N. Y., assignor to Squire Products Company, Pittsburgh, Pa. Roaster. No. 1,432,407; Oct. 17.
- Miggett, William L., Detroit, Mich. Automobile. No. 1,409,749; Mar. 14.
- Migl, Albert J., Yoakum, Tex. Grease-cup-attaching means. No. 1,432,716; Oct. 17.
- Migletta, Riccardo, Meriden, Conn. Ice-cream-cone machine. No. 1,418,195; May 30.
- Miglio, Peter, Marseilles, Ill. Miner's lamp. No. 1,430,247; Sept. 26.
- Mihalich Anton, East Pittsburgh, Pa. Making phosphor copper. No. 1,435,649; Nov. 14.
- Mihalyi, Joseph. (See Craven, F. S., and Mihalyi.)
- Mihara, Saiichiro, Gardena, Calif. Scale. No. 1,436,600; Nov. 21.
- Mikesell, Azariah H., assignor of one-half to J. Dietrich, Oakland, and one-tenth to C. Dietrich, San Francisco, Calif. Composition of matter for fire and water proof paint. No. 1,415,380; May 9.
- Mikesell, Ray M., Percy, Iowa. Metal tip for shoe laces. No. 1,414,701; May 2.
- Mikolasek, Venceslaus F., Lankin, N. Dak. Lighting and ignition system for automobiles. No. 1,421,285; June 27.
- Mikshel, John J., Chicago, Ill., assignor to J. T. Ryerson & Son. Flue-cleaning machine. No. 1,406,047; Feb. 7.
- Mikulasek, John, Newton, Iowa. Ironing machine. No. 1,417,625; May 30.
- Milan, William W., Paden, Okla. Ironing board. No. 1,420,206; June 20.
- Milbradt, Clarence J., Chicago, Ill. Slicer and grater. No. 1,414,297; Apr. 25.
- Milburn, Alvin, Keensburg, Ill. Air filter for internal-combustion engines. No. 1,414,993; May 2.
- Milburn Implement Manufacturing Co. (See Aton, William E., assignor.)
- Milburn, Thomas Y. (See Fields, James Y., assignor.)
- Mildon, James J., Brooklyn, N. Y. Steam-boiler system. No. 1,402,430; Jan. 3.
- Mileometer Company, The. (See Smulski, Theodore J., assignor.)
- Miles, Casper W., Anderson Township, Hamilton County, Ohio. Nitrogen fixation. No. 1,408,625; Mar. 7.
- Miles, Charles H., assignor to Miles Piston Ring Company, Chicago, Ill. Tool for facilitating the removal and replacement of piston rings. No. 1,412,953; Apr. 18.
- Miles, George B., Washington, Ill. Shot-putting sling. No. 1,419,682; June 13.
- Miles, George F., New York, N. Y. Wind and rain shield. No. 1,416,112; May 16.
- Miles, George W., Sandwich, Mass., assignor to Ross Chemical Company. Oxidizing resin. No. 1,410,211; Mar. 21.
- Miles, Harvey, Detroit, Mich. License-plate holder. No. 1,440,310; Dec. 26.
- Miles, Lewis C., Boise, Idaho. Winding drum. No. 1,408,463; Mar. 7.
- Miles Piston Ring Company. (See Miles, Charles H., assignor.)
- Milholen, Charles F., Kannapolis, N. C. Ash pan. No. 1,423,352; July 18.
- Milholland, John, Leechburg, Pa. Pair furnace. No. 1,427,009; Aug. 22.
- Milito, Peter, assignor of one-half to S. Di Giacomo, Utica, N. Y. Musical instrument. No. 1,425,032; Aug. 8.
- Militor Corporation, The. (See Notman, Robert L., assignor.)
- Milk Bottle Crate Company. (See Thomall, Timothy V., assignor.)
- Milker, Herbert P., assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Thermometer. No. 1,439,254; Dec. 19.
- Milkey, Lester E., Sandusky, Ohio. Drier. No. 1,438,129; Dec. 5.
- Milkie, George A., Brooklyn, N. Y. Smoking pipe. No. 1,428,446; Sept. 5.
- Millar, George A. (See Ryding, H. C., and Millar.)
- Millar, William H., Glasgow, Scotland. Semaphore signaling apparatus. No. 1,435,543; Nov. 14.
- Millard, Edward F., Hopkinton, Mass. Making wood pulp. No. 1,413,180; Apr. 18.
- Millard, Fred, Grand Rapids, Mich. Coin-controlled vending machine. No. 1,412,565; Apr. 11.
- Millard, John W., Upper Darby, Pa. Automobile brake mechanism. No. 1,431,975; Oct. 17.
- Millard, Reginald W., Meriden, Conn., and M. A. Michaels, Cambridge, Mass., assignors to Foster, Merriam & Company. Electrolyte indicator for storage batteries. No. 1,414,745; May 2.
- Millen, George B. (See MacGregor, D. G., Millen, and Stanley.)
- Millen, Rudolph A., Detroit, Mich. Ratchet wrench. No. 1,422,121; July 11.
- Miller, Abner. (See Walsh, W., and D. H. and A. Miller.)
- Miller, Adam C., New York, N. Y. Transmission pedal. No. 1,410,495; Mar. 21.

Alphabetical list of patentees—Continued.

- Miller, Albert, et al. (See Miller, A., and Matthews, assignors.)
- Miller, Albert, and C. C. Matthews, assignors of two-thirds to C. F. Miller and one-third to A. Miller, Columbus, Ohio. Stool. No. 1,407,433; Feb. 21.
- Miller, Albert A. (See Barnes, C., and Miller.)
- Miller, Albert O., Porter, Minn. Alarm for elevator grain bins. No. 1,432,078; Oct. 17.
- Miller, Albin, Prince George, British Columbia, Canada. Bottle. No. 1,419,747; June 13.
- Miller, Aldus C. (See Miller, Oscar R. and A. C.)
- Miller, Alexander. (See Sheinker, George S., assignor.)
- Miller, Allen L., Republic, Ohio. Gas saver. No. 1,403,517; Jan. 17.
- Miller, Alten S., Baltimore, Md. Automatic mechanism for controlling the flow of fluids. No. 1,438,847; Dec. 12.
- Miller, Arnold W., assignor to C. H. Hook, Pittsburgh, Pa. Relief valve. No. 1,423,135; July 18.
- Miller, Arthur, Columbus, Ohio. Garden tool. No. 1,423,865; July 25.
- Miller, Arthur E. (See Johnson, Charles H., assignor.)
- Miller, Arthur E. (See Sonne, O. E., Proctor, and Miller.)
- Miller, Arthur W., Roselle Park, and W. L. Conklin, Boundbrook, N. J., assignors to Pathé Exchange, Inc., New York, N. Y. Automatic electric film cutter. No. 1,425,405; Aug. 8.
- Miller, Austin E., Cheney, Wash. Gate. No. 1,437,671; Dec. 5.
- Miller, Benjamin F., Vienna, Va. Bag holder. No. 1,424,026; July 25.
- Miller, Benjamin F., assignor of forty-five per cent to F. L. Miller, Henderson, Tex. Brake shoe. No. 1,420,274; June 20.
- Miller, Bert C., assignor to F. W. Richert, Milwaukee, Wis. Tool for adjusting tappets and the like. No. 1,435,544; Nov. 14.
- Miller, Byron A., Mansfield, Ohio. Machine guard. No. 1,430,918; Oct. 3.
- Miller, Byron Y., San Luis Obispo, Calif. X-ray stereoscope. No. 1,440,231; Dec. 26.
- Miller, Carl P., and R. E. Lee, Fargo, N. Dak. Grain-washing machine. No. 1,403,092; Jan. 10.
- Miller-Chapman Company. (See Chapman, Earle E., assignor.)
- Miller-Chapman Company. (See Southard, John H., assignor.)
- Miller, Charles C., Fort Wayne, Ind. Folding box. No. 1,421,526; July 4.
- Miller, Charles E., assignor to Universal Arch Company, Chicago, Ill. Arch brick. No. 1,439,632; Dec. 19.
- Miller, Charles F., et al. (See Miller, A., and Matthews, assignors.)
- Miller, Charles F., Omaha, Nebr. Butter-cutting machine. No. 1,414,994; May 2.
- Miller, Charles F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Underfeed stoker. No. 1,406,883; Feb. 14.
- Miller, Charles F., Morton, Pa., assignor to The Westinghouse Electric & Manufacturing Co. Stoker. No. 1,406,884; Feb. 14.
- Miller, Charles F., assignor to Chicago Shoe Machinery Company, Chicago, Ill. Thread-measuring device for leather-stitching machines. No. 1,431,478; Oct. 10.
- Miller, Charles F., assignor to Chicago Shoe Machinery Company, Chicago, Ill. Automatic presser-foot mechanism for leather-stitching machines. No. 1,431,479; Oct. 10.
- Miller, Charles F., Morton, and R. M. Allen, Swissvale, Pa., assignors to Westinghouse Electric & Manufacturing Co. Fuel-feeding mechanism. No. 1,414,746; May 2.
- Miller, Charles J., Moselle, Miss. Railway signal device. No. 1,424,509; Aug. 1.
- Miller, Charles J., Moselle, Miss. Railway switch. No. 1,432,606; Oct. 17.
- Miller, Chester D., Los Angeles, Calif. Clamp. No. 1,419,288; June 13.
- Miller, Clarence J. H., East Cleveland, Ohio. Game apparatus. No. 1,406,473; Feb. 14.
- Miller, Daniel K., deceased, by M. G. Campbell, executrix, Philadelphia, Pa. Lock. No. 1,430,176; Sept. 26.
- Miller, David H. (See Walsh, W. D. and H. and A. Miller.)
- Miller, Dorr. (See Gruenberg, W. A., and Miller.)
- Miller, Duncan, deceased, by G. A. Ramsdell, administrator, Indianapolis, Ind. Metallic railway tie. No. 1,415,672; May 9.
- Miller, E. A. (See Müller, Eduard F., assignor.)
- Miller, Earl M. (See Lebzelter, William F., assignor.)
- Miller, Earl M. (See Stehman, Paul K., assignor.)
- Miller, Edgar A., Youngstown, Ohio. Battery post. No. 1,434,307; Oct. 31.
- Miller, Edward, Malta, Mont. Slat for binder aprons. No. 1,405,312; Jan. 31.
- Miller, Edward A., Downs, Kans. Match-scratching attachment for lamps. No. 1,414,995; May 2.
- Miller, Edward C., Williamsport, Pa. Liquid dam preparation. No. 1,417,091; May 23.
- Miller, Edward J. (See Patterson, J. A., and Miller.)
- Miller, Edward P., and V. V. Nelson, Atwater, Minn. Calf weaner. No. 1,408,018; Feb. 28.
- Miller, Edwin H., Chicago, Ill., assignor to Norris Alister-Ball Company. Alarm clock. No. 1,402,524; Jan. 3.
- Miller, Elias N., Laramie, Wyo. Sealing device for wells. No. 1,411,057; Mar. 28.
- Miller, Emmett M., Bassett, Nebr. Variable-speed gearing. No. 1,405,713; Feb. 7.
- Miller, Ernest W. (See Fitch, H. H., and Miller.)
- Miller, Ernest W., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Starch-preparing apparatus. No. 1,418,320; June 6.
- Miller, Esther M., Pittsburgh, Pa. Cutting-allowance computer. No. 1,404,158; Jan. 17.
- Miller, Everard F., assignor to The Faultless Rubber Company, Ashland, Ohio. Apparatus for manufacturing catheters and the like. No. 1,404,042; Jan. 17.
- Miller, Flora E., Sparta, Ill. Heel protector for ladies' shoes. No. 1,417,934; May 30.
- Miller, Forest L. (See Miller, Benjamin F., assignor.)
- Miller, Francis, Cincinnati, Ohio. Awning bracket. No. 1,429,754; Sept. 19.
- Miller, Frank E., New York, N. Y. Bone resector. No. 1,423,866; July 25.
- Miller, Frank H., Montgomery, Ala. Apparel. No. 1,404,465; Jan. 24.
- Miller, Frank H., Montgomery, Ala. Union suit. No. 1,404,629; Jan. 24.
- Miller, Frank P., Meadville, Pa. Bracket. No. 1,423,535; July 25.
- Miller, Frank P., Meadville, Pa. Cutting tool. No. 1,431,829; Oct. 10.
- Miller, Frank P., Meadville, Pa. Coupling. No. 1,431,830; Oct. 10.
- Miller, Frank P., Meadville, Pa. Cutting tool. No. 1,431,831; Oct. 10.
- Miller, Frank P., Downingtown, Pa. Apparatus for treating paper stock. No. 1,432,774; Oct. 24.
- Miller, Frederick B., Scottsdale, Pa. Wheel. No. 1,422,597; July 11.
- Miller, Frederick E., assignor to St. Louis Cash Register Company, Incorporated, St. Louis, Mo. Cash-registers tab-actuating mechanism. No. 1,427,311; Aug. 29.
- Miller, Frederick F., Napanee, Ontario, Canada. Oil burner. No. 1,429,521; Sept. 19.
- Miller, Frederick H., New York, N. Y. Toy vehicle. No. 1,402,636; Jan. 3.
- Miller, Frederick H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fuse. No. 1,438,606; Dec. 12.
- Miller, Frederick H., and J. H. Procter, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Fuse. No. 1,438,607; Dec. 12.
- Miller, George E., Etna, Pa. Tap. No. 1,432,079; Oct. 17.
- Miller, George P., Foxcroft, Me. Lens-grinding apparatus. No. 1,406,407; Feb. 14.
- Miller, Grace V., Oakland, Calif. Comb. No. 1,425,269; Aug. 8.
- Miller, Gustave E. W., assignor to Miller Safety Tooth Brush Company, Boston, Mass. Brush casing and handle. No. 1,432,717; Oct. 17.
- Miller, Guy, Springfield, La. Game. No. 1,402,637; Jan. 3.
- Miller, Harry W., assignor to Ero Manufacturing Company, Chicago, Ill. Side-car center brace. No. 1,403,049; Jan. 10.
- Miller, Henry. (See Smith, R. S., and Miller.)
- Miller, Henry, New York, N. Y. Device for securing and supporting doors. No. 1,418,822; June 6.
- Miller, Henry, assignor to American Can Company, San Francisco, Calif. Container. No. 1,419,883; June 13.
- Miller, Henry B. (See Herrick, William H., assignor.)
- Miller, Henry C., Waterford, N. Y. Stopping mechanism for sewing machines. No. 1,428,648; Sept. 12.
- Miller, Henry C., Milwaukee, Wis. Book-cover hinge. No. 1,437,854; Dec. 5.
- Miller, Henry C., Waterford, N. Y. Buttonhole machine. No. 1,438,848; Dec. 12.
- Miller, Henry L. (See Rush, Allan C., assignor.)
- Miller, Herbert C., Pittsburgh, Pa. Artificial limb. No. 1,424,734; Aug. 1.
- Miller, Herbert T., Rochester, N. Y. Sleigh runner for motor vehicles. No. 1,406,207; Feb. 14.
- Miller, Herman O., Bridgeport, Conn. Necktie holder. No. 1,411,058; Mar. 28.
- Miller, Hiram C., Parkesburg, Pa. Locking device for steering wheels. No. 1,421,020; June 27.
- Miller, Hiram C., Parkesburg, Pa. Locking device for steering wheels. No. 1,428,649; Sept. 12.
- Miller, Hobart G. (See Cronenberger, George J., assignor.)
- Miller, Homer. (See Kidder, A. B., and Miller.)
- Miller, Homer B., Gardiner, Me., assignor to United Shoe Machinery Corporation, Paterson, N. J. Eyeletting machine. No. 1,436,186; Nov. 21.
- Miller, J. Hall. (See Camp, Warner H., assignor.)
- Miller, James, South Glens Falls, N. Y. Clothesline. No. 1,411,927; Apr. 4.
- Miller, James, Stonington, Ill. Extensible shade and curtain fixture. No. 1,435,613; Nov. 14.
- Miller, James C., Pittsburgh, and A. Isles, Swissvale, Pa., assignors to The W. R. Miller Company. Gas producer. No. 1,435,322; Nov. 14.
- Miller, James M., Newport, Okla. Rope swivel socket. No. 1,432,117; Oct. 17.
- Miller, James M., Rosemont, Pa. Vehicle wheel. No. 1,436,046; Nov. 21.
- Miller, James R., McRae, Ga. Auto valve grinder. No. 1,402,081; Jan. 3.

- Miller, Jesse B., Tulsa, Okla. Lacing and unlacing device. No. 1,435,410; Nov. 14.
- Miller, John, Savanna, Ill. Battery fastener. No. 1,438,130; Dec. 5.
- Miller, John, Amesbury, assignor to Miller Trolley Shoe Company, Boston, Mass. Trolley shoe. No. 1,440,093; Dec. 26.
- Miller, John A., Homewood, Ill. Pleasure-railway construction and operation. No. 1,409,750; Mar. 14.
- Miller, John A., Homewood, Ill. Pleasure railway. No. 1,409,751; Mar. 14.
- Miller, John A., Homewood, Ill. Pleasure-railway structure. No. 1,415,187; May 9.
- Miller, John A., Chicago, Ill. Truss structure. No. 1,438,452; Dec. 12.
- Miller, John A., Los Angeles, Calif., assignor to L. R. Wilder, Chicago, Ill. Railway signaling and train-control system. No. 1,419,289; June 13.
- Miller, John C., Covington, Ky., assignor to The Evaporating and Drying Machinery Company, Cincinnati, Ohio. Apparatus for the drying of liquids and semiliquids. No. 1,407,701; Feb. 28.
- Miller, John C., Covington, Ky., assignor to The Evaporating and Drying Machinery Company, Cincinnati, Ohio. Evaporator. No. 1,415,255; May 9.
- Miller, John C., assignor to The Willys-Overland Company, Toledo, Ohio. Wheel block. No. 1,427,222; Aug. 29.
- Miller, John D. (See White, Robert O., assignor.)
- Miller, John E., Olean, N. Y. Chain fastener. No. 1,435,125; Nov. 7.
- Miller, John E., Olean, N. Y. Antislipping device. No. 1,437,258; Nov. 28.
- Miller, John G., et al., executors. (See Lumsden, J. D., Mackenzie, Robinson, and Fort.)
- Miller, John H., MacDunn, W. Va. Coal-loading apparatus. No. 1,411,928; Apr. 4.
- Miller, John H., Baltimore, Md. Building structure. No. 1,437,946; Dec. 5.
- Miller, John H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. No. 1,408,119; Feb. 28.
- Miller, John H., Oak Park, assignor to Jewell Electrical Instrument Company, Chicago, Ill. Battery tester. No. 1,408,759; Mar. 7.
- Miller, John H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. No. 1,412,791; Apr. 11.
- Miller, John W., Waukegan, Ill. Smoking appliance. No. 1,433,468; Oct. 24.
- Miller, Joseph, Minneapolis, Minn. Tank for refrigerators. No. 1,415,381; May 9.
- Miller, Joseph B., Indianapolis, Ind. Fire-extinguishing composition and preparing same. No. 1,421,527; July 4.
- Miller, Joseph E., Incorporated. (See Blacher, Samuel, assignor.)
- Miller, Joseph H. (See Mustee, Lawrence F., assignor.)
- Miller, Leonard S., Cincinnati, G. Sensabaugh, Dayton, and W. D. Shelby, Columbus, Ohio. Pole raising and straightening device. No. 1,403,337; Jan. 10.
- Miller, Lewis B. (See Kennedy, William H., assignor.)
- Miller, Lewis W., Muskogee, Okla. Convertible furniture. No. 1,419,465; June 13.
- Miller, Lloyd J., Newark, N. J., assignor to Telescope Cot Bed Company, Inc. Folding table. No. 1,416,048; May 16.
- Miller Lock Company, The. (See Jackson, Arthur C., assignor.)
- Miller Lock Company, The. (See Soley, Frank, assignor.)
- Miller, Louis, Brooklyn, N. Y. Sanding machine. No. 1,420,438; June 20.
- Miller, Louis A., assignor to Winchester Repeating Arms Company, New Haven, Conn. Flashlight. No. 1,421,528; July 4.
- Miller, Louis C., Verona Borough, N. J. Fire-alarm system and controlling means therefor. No. 1,435,323; Nov. 14.
- Miller, Louis G., Westmont Borough, Pa. Bolster. No. 1,436,187; Nov. 21.
- Miller, Louis G., Westmont Borough, Pa. Truck bolster. No. 1,436,188; Nov. 21.
- Miller, Louisa, Ware, Mass. Dustpan. No. 1,404,466; Jan. 24.
- Miller, Ludvic M., Winneconne, Wis. Extension foot for ladders. No. 1,419,748; June 13.
- Miller, Marie, Ottawa, Ontario, Canada. Combination boiler and strainer. No. 1,428,388; Sept. 5.
- Miller, Martin L., and H. B. Stoner, Brookville, Pa. Camera stand. No. 1,408,900; Mar. 7.
- Miller, Max C., Cumberland Hill, assignor to J. Fleischer, Providence, R. I. Cuff button. No. 1,429,290; Sept. 19.
- Miller, Max C., Cumberland Hill, assignor to Jencks Knitting Machine Company, Pawtucket, R. I. Transferring webs to knitting machines. No. 1,434,718; Nov. 7.
- Miller, Max V., New York, N. Y. Display device and blank. No. 1,419,638; June 13.
- Miller, Max V., New York, N. Y. Display device and blank. No. 1,438,963; Dec. 19.
- Miller, Merritt, Canton, Ohio. Aluminum rolling pin. No. 1,438,544; Dec. 12.
- Miller, Nicholas, Chicago, Ill. Stamp affixing device. No. 1,418,600; June 6.
- Miller, Nicholas M., Aurora, Ill. Blending, grading, and bagging bin. No. 1,440,165; Dec. 26.
- Miller, Odean D., Valparaiso, Ind. Jogger-rack attachment. No. 1,434,907; Nov. 7.
- Miller, Olin P., Woodland, Ga. Transmission. No. 1,427,223; Aug. 29.
- Miller, Oscar L., et al. (See Crawford, Frank E., assignor.)
- Miller, Oscar R. and A. C., Philadelphia, Pa. Nut lock. No. 1,404,630; Jan. 24.
- Miller, Ose Z., Houston, Tex. Mold. No. 1,404,310; Jan. 24.
- Miller, Otto, Lake Township, Berrien County, Mich. Lever lock. No. 1,421,021; June 27.
- Miller, P. E. (See Hoffman, Fred D., assignor.)
- Miller, Philip M., Brooklyn, N. Y. Vehicle-wheel pneumatic-tire rim. No. 1,402,003; Jan. 3.
- Miller, Ralph, Birmingham, England. Milling and like cutting tool. No. 1,411,799; Apr. 4.
- Miller, Ralph, Birmingham, and S. C. Icke, Acocks Green, near Birmingham, England. Tool holder for lathes, shaping, planing, and other like machines. No. 1,405,714; Feb. 7.
- Miller, Raymond J., Rochester, N. Y. Machine for cutting key seats. No. 1,438,324; Dec. 12.
- Miller, Raymond S., Stockton, Calif. Trousers supporter. No. 1,427,406; Aug. 29.
- Miller, Robert H., Scranton, assignor to G. W. Shoemaker, Dalton, Pa. Washboard. No. 1,421,094; June 27.
- Miller, Robert H., assignor to Detroit Stove Works, Detroit, Mich. Electric switch. No. 1,427,312; Aug. 29.
- Miller, Robert L., Spokane, Wash. Valve mechanism for automatic train-control apparatus. No. 1,424,420; Aug. 1.
- Miller, Robert N., Altoona, Pa. Railway-track-scale construction. No. 1,411,502; Apr. 4.
- Miller, Roy J., Columbus, Wis. Disk-record file. No. 1,412,537; Apr. 11.
- Miller, Roy J., Columbus, Wis. Hen's nest. No. 1,412,566; Apr. 11.
- Miller Rubber Company, The. (See Flemming, Charles F., assignor.)
- Miller Rubber Company, The. (See Harrison, M. M., and Morton, assignors.)
- Miller Rubber Company, The. (See Johnston, J. F., and Bulley, assignors.)
- Miller Rubber Company. (See Knepper, Christopher B., assignor.)
- Miller Rubber Company, The. (See Lehr, John, assignor.)
- Miller Rubber Company, The. (See Macklin, Otto H., assignor.)
- Miller Rubber Company, The. (See Morton, H. A., and Harrison, assignors.)
- Miller Rubber Company, The. (See Ofensend, Chase F., assignor.)
- Miller Rubber Company, The. (See Robertson, Isaac W., assignor.)
- Miller Rubber Company, The. (See Stoner, Arthur W., assignor.)
- Miller, Rudolph, assignor of one-half to L. Klagg, St. Michael, Pa. Automatic gas lock. No. 1,419,884; June 13.
- Miller Safety Tooth Brush Company. (See Miller, Gustave E. W., assignor.)
- Miller Saw-Trimmer Company. (See Klorer, Charles P., assignor.)
- Miller Saw-Trimmer Company. (See Smith, Walter H., assignor.)
- Miller, Seaman, New York, N. Y. Ornamental textile. No. 1,406,208; Feb. 14.
- Miller, Sigfrid A., Oakland, Calif. Combination auto bed and tent. No. 1,428,897; Sept. 12.
- Miller, Stanley G., Chatham, Ontario, Canada. Automobile lock. No. 1,423,955; July 25.
- Miller, Stanley S., Glens Falls, N. Y. Paper-making machine. No. 1,438,050; Dec. 5.
- Miller, Stuart P., Philadelphia, Pa., assignor to The Barrett Company. Flake paracoumaron. No. 1,431,676; Oct. 10.
- Miller, Stuart P., Philadelphia, Pa., assignor to The Barrett Company. Purification of naphthalene. No. 1,438,710; Dec. 12.
- Miller, Theodore H., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Bowl clamp. No. 1,407,702; Feb. 28.
- Miller, Theodore H., assignor to Waterbury Buckle Co., Waterbury, Conn. Garment fastener button. No. 1,418,823; June 6.
- Miller, Thomas B., and R. A. Paxton, Kansas City, Kans. Tire chain. No. 1,432,484; Oct. 17.
- Miller, Thomas L., Sonora, Tex. Automobile body brace. No. 1,433,143; Oct. 24.
- Miller, Thomas R., Sacramento, Calif. Means for indicating the wear in journal bearings. No. 1,433,217; Oct. 24.
- Miller, Thomas S., South Orange, N. J. Towing engine. No. 1,405,612; Feb. 7.
- Miller, Thomas S., South Orange, N. J. Towing vessel. No. 1,423,576; July 25.
- Miller, Thomas S., South Orange, N. J. Attaching means for cables. No. 1,437,987; Dec. 5.
- Miller, Thomas S., South Orange, N. J. Cableway. No. 1,438,453; Dec. 12.
- Miller, Thomas S., South Orange, N. J. Excavating cableway. No. 1,438,608; Dec. 12.

Alphabetical list of patentees—Continued.

- Miller, Thomas W., assignor to The Faultless Rubber Company, Ashland, Ohio. Making sponge-rubber balls. No. 1,409,059; Mar. 7.
- Miller Train Control Corporation, The. (See Murray, William B., assignor.)
- Miller Transmission Company, The. (See Gruenberg, W. A., and Miller, assignors.)
- Miller Trolley Shoe Company. (See Miller, John, assignor.)
- Miller Trolley Shoe Company. (See Whittaker, John L., assignor.)
- Miller, W. R., Company. (See Miller, J. C., and Isles, assignors.)
- Miller, Waldo W., Angola, Ind. Protecting device. No. 1,413,925; Apr. 25.
- Miller, Walter F. (See Koenneke, H. P., and Miller.)
- Miller, Walter F., Dayton, Ohio. Expandable core for curing automobile tires and the like. No. 1,420,490; June 20.
- Miller, Walter M., Dougherty, Iowa. Adjustable gun sight. No. 1,428,389; Sept. 5.
- Miller, Washington J., Oakland, Calif. Hairpin. No. 1,410,948; Mar. 28.
- Miller, Wilbur G. (See Topp, M. J., and Miller.)
- Miller, William E., Savannah, Ga. Collapsible rim. No. 1,423,811; July 25.
- Miller, William G., Boston, Pa. Amusement device. No. 1,430,396; Sept. 26.
- Miller, William J. (See Frayer, L. A., and Miller.)
- Miller, William J. (See Van Atti, Peter, assignor.)
- Miller, William J., Goose Creek, Tex. Calipers. No. 1,411,929; Apr. 4.
- Miller, William J., Swissvale Borough, Pa. Process and apparatus for feeding glass. No. 1,413,757; Apr. 25.
- Miller, William J., Swissvale Borough, Pa. Apparatus for manufacturing glass articles. No. 1,428,855; Sept. 12.
- Miller, William L., assignor to Gisholt Machine Company, Madison, Wis. Slide rule. No. 1,431,409; Oct. 10.
- Miller, Zachary T., Bliss, Okla. Blinder. No. 1,406,675; Feb. 14.
- Miller, Zachary T., Bliss, Okla. Blinder. No. 1,406,676; Feb. 14.
- Miller, Zachary T., Bliss, Okla. Strap-end-attaching device. No. 1,407,291; Feb. 21.
- Miller & Pardee, Inc. (See Pardee, Harvey S., assignor.)
- Millers Falls Company. (See Parsons, William J., assignor.)
- Millers Falls Company. (See Ryther, Henry A., assignor.)
- Millers Falls Company. (See Shortell, W. H., and Sutcliffe, assignors.)
- Millhouse, Ross, Los Angeles, Calif. Cleaning device. No. 1,421,529; July 4.
- Millice, Paul S., Hamilton, Ohio, assignor to Herring-Hall-Marvin Safe Company, New York, N. Y. Safe. No. 1,404,043; Jan. 17.
- Millice, Paul S., Hamilton, Ohio, assignor to Herring-Hall-Marvin Safe Company, New York, N. Y. Safe. No. 1,404,044; Jan. 17.
- Milligan, George R. E. (See Earle, Ethan H., assignor.)
- Milligan, Harlan R. (See Ewart, G. B., and Milligan.)
- Milligan, John F., assignor to Liquid Measuring Devices Corporation, New York, N. Y. Liquid-measuring apparatus. No. 1,427,115; Aug. 29.
- Milligan, Lowell H., New Kensington, Pa., assignor to Newton D. Baker, Secretary of War. Making arsenic trichloride. No. 1,421,978; July 4.
- Milligan, William F., et al. (See Smith, James H., assignor.)
- Milliken, Foster, Lawrence, N. Y. Alloy. No. 1,432,607; Oct. 17.
- Milliken, George, assignor to one-half to W. A. Moore, Orangeville, Ill. Hammer-blade attachment. No. 1,439,572; Dec. 19.
- Milliken, George P. (See Sewall, D. O., Milliken, and Hannaford.)
- Milliken, Humphreys, New York, N. Y. Apparatus for extracting dust and fume from gases or air in which they are carried in suspension. No. 1,405,613; Feb. 7.
- Milliken, Isaac H., Aspinwall, assignor to The McConway & Torley Company, Pittsburgh, Pa. Coupling and yoke connection. No. 1,404,878; Jan. 31.
- Milliken, Isaac H., Aspinwall, and W. J. Regan, assignors to The McConway & Torley Company, Pittsburgh, Pa. Uncoupling mechanism. No. 1,417,543; May 30.
- Milliken, Isaac H., Aspinwall, and W. J. Regan, assignors to The McConway & Torley Company, Pittsburgh, Pa. Uncoupling mechanism. No. 1,417,544; May 30.
- Milliken, Isaac H., Aspinwall, and W. J. Regan, assignors to The McConway & Torley Company, Pittsburgh, Pa. Uncoupling mechanism. No. 1,417,545; May 30.
- Milliken, Isaac H., Aspinwall, and W. J. Regan, assignors to The McConway & Torley Company, Pittsburgh, Pa. Uncoupling mechanism. No. 1,417,546; May 30.
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- Milliken, Isaac H., Aspinwall, and W. J. Regan, assignors to The McConway & Torley Company, Pittsburgh, Pa. Uncoupling mechanism. No. 1,417,548; May 30.
- Milliken, John A., Bayonne, assignor to J. E. Marsden, Atlantic City, N. J. Glass-cutting machine. No. 1,402,457; Jan. 3.
- Milling, James H., Dallas, Tex. Stick file. No. 1,438,849; Dec. 12.
- Millity, Vlada, Detroit, Mich. Nonrefillable bottle. No. 1,408,376; Feb. 28.
- Millity, Vlada, Detroit, Mich. Bottle closure. No. 1,430,313; Sept. 26.
- Mills, Arthur, Sacramento, Calif. Trailer wheel for motor trucks. No. 1,434,137; Oct. 31.
- Mills Baking Company. (See Janney, Peyton R., assignor.)
- Mills, Bertie E., assignor to Mills Novelty Company, Chicago, Ill. Tremolo device for electric self-playing violins. No. 1,407,434; Feb. 21.
- Mills, Bertie E., assignor to Mills Novelty Company, Chicago, Ill. Electric self-playing violin. No. 1,425,533; Aug. 15.
- Mills, Bertie E., assignor to Mills Novelty Company, Chicago, Ill. Muting instruments of the viol class. No. 1,431,677; Oct. 10.
- Mills, Bertie E., assignor to Mills Novelty Company, Chicago, Ill. Music-sheet feeder. No. 1,435,614; Nov. 14.
- Mills, Bertram M., Pawtucket, R. I. Humidifier. No. 1,439,319; Dec. 19.
- Mills, Chester B., East McKeesport, Pa., assignor to Westinghouse Electric & Manufacturing Company. Current-collecting device. No. 1,427,407; Aug. 29.
- Mills, Clarence H., Albany, N. Y. Portfolio. No. 1,403,806; Jan. 17.
- Mills, Claud E., Des Moines, Iowa. Differential-gear structure. No. 1,409,389; Mar. 14.
- Mills, Claud E., Des Moines, Iowa. Reverse-gear structure. No. 1,415,673; May 9.
- Mills, Courtney A., and J. G. Baker, Asheville, N. C. Nut holder. No. 1,431,832; Oct. 10.
- Mills, Edward F., Lynn, Mass. Pressure gauge. No. 1,430,097; Sept. 26.
- Mills, Edward F., Salem, Mass., assignor to A. Schrader's Son, Inc., Brooklyn, N. Y. Pressure controller or instrument. No. 1,430,098; Sept. 26.
- Mills, Francis H., Boston, Mass. Bottle closure. No. 1,428,295; Sept. 5.
- Mills, Frank B., Frogmarsh Mills, near Stroud, England. Machine for the manufacture of buttons. No. 1,433,963; Oct. 31.
- Mills, H. S. (See Sandell, Henry K., assignor.)
- Mills, Herbert S. (See Oveson, Carl A., assignor.)
- Mills, Herbert S. (See Peterson, Oscar, assignor.)
- Mills, Herbert S. (See Sandell, Henry K., assignor.)
- Mills, Isaac H., Turtle Creek, Pa. Bore-enlarging device. No. 1,412,538; Apr. 11.
- Mills, James B., Toronto, Ontario, Canada. Automobile washer. No. 1,433,964; Oct. 31.
- Mills, James H., Gallipolis, Ohio. Electrically-heated radiator. No. 1,406,057; Feb. 7.
- Mills, John, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Means for and method of wave transmission. No. 1,412,567; Apr. 11.
- Mills, John, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Two-way transmission with repeaters. No. 1,434,790; Nov. 7.
- Mills, John H. T. (See Mills, Virgil H. and J. H. T.)
- Mills, Lewis E., Bryan, Ohio. Tire boot. No. 1,438,657; Dec. 12.
- Mills, Louis D., assignor to The Merrill Company, San Francisco, Calif. Apparatus for removing gases from liquids. No. 1,433,965; Oct. 31.
- Mills, Louis D., Redwood City, assignor to The Merrill Company, San Francisco, Calif. No. 1,433,966; Oct. 31.
- Mills, Mabel N., New York, N. Y. Lady's undergarment. No. 1,419,940; June 20.
- Mills Novelty Company. (See Mills, Bertie E., assignor.)
- Mills, Ronald V., Sandy Spring, Md. Excluding water from oil and gas wells. No. 1,421,706; July 4.
- Mills, Thomas A., Clapham, London, assignor to Zeechrome Limited, London, England. Color cinematography. No. 1,407,875; Feb. 28.
- Mills, Virgil H. and J. H. T., Hubbard, Tex. Oil burner. No. 1,409,390; Mar. 14.
- Mills, William Anacortes, and C. Percy, Bellingham, assignors of one-third to C. H. Kent, Seattle, Wash. Machine for relfanging cans. No. 1,407,076; Feb. 21.
- Mills, William S., Trumbull and H. E. Bisailon, Bridgeport, Conn. Stop-motion device. No. 1,424,844; Aug. 8.
- Mills Works & Machinery Limited, The. (See Hardy, George, assignor.)
- Millsaps, Daniel W., Washington, D. C. Door spring. No. 1,405,735; Feb. 7.
- Millsaps, Daniel W., assignor to Automatic Mail Exchange Co., Washington, D. C. Mail-bag receiver. No. 1,425,406; Aug. 8.
- Milmoe, Michael J., assignor to F. B. Redington Company, Chicago, Ill. Carton-filling mechanism. No. 1,425,997; Aug. 15.
- Milmoe, Michael J., assignor to F. B. Redington Company, Chicago, Ill. Box forming and stapling machine. No. 1,438,252; Dec. 12.
- Milne, Alexander, assignor to Newark Watch Case Material Company, Newark, N. J. Watch holder. No. 1,430,021; Sept. 26.
- Milne, Alexander, assignor to Newark Watch Case Materials Company, Newark, N. J. Watch holder. No. 1,438,964; Dec. 19.

- Milne, Charles K., Hamilton, Ontario, Canada. Weighing machine. No. 1,403,704; Jan. 17.
- Milner, Bert B., New York, N. Y. Corrugated metal plate. No. 1,425,207; Aug. 8.
- Milner, Bert B., New York, N. Y. Manufacturing corrugated metal plates. No. 1,425,208; Aug. 8.
- Milner, Edwin E., Scott Township, Allegheny County, and W. J. Lytle, Rosslyn Farms Borough, assignors to H. L. Dixon Company, Carnegie, Pa. Muffle-flattening oven and leer. No. 1,426,309; Aug. 15.
- Milner, Edwin E., Scott Township, Allegheny County, and W. J. Lytle, Rosslyn Farms Borough, assignors to H. L. Dixon Company, Carnegie, Pa. Plate-glass-annealing leer. No. 1,426,310; Aug. 15.
- Milnor, Joseph W., assignor to The Western Union Telegraph Company, New York, N. Y. Amplifier. No. 1,415,382; May 9.
- Milnor, Joseph W., assignor to The Western Union Telegraph Company, New York, N. Y. Method of and apparatus for telegraphic transmission. No. 1,439,633; Dec. 19.
- Milo Machinery Company Proprietary Limited. (See Wriedt, Frederick, assignor.)
- Milosevich, Matt, Trinidad, Colo. Pole or post base mold. No. 1,435,127; Nov. 7.
- Milse, Gustav, Bremen, Germany, assignor to E. Zimmermann, New York, N. Y. Exchangeable india-rubber heel. No. 1,438,775; Dec. 12.
- Milson, John E., Watertown, assignor to Pioneer Chemical Company, Revere, Mass. Soap. No. 1,430,099; Sept. 26.
- Milstead, Herbert L., Chandlerville, Ill. Cut-out for automobiles. No. 1,411,364; Apr. 4.
- Miltimore, Chancy K., Janesville, Wis. Pocket protector. No. 1,409,306; Mar. 14.
- Milton, John L., Louisville, Ky. Electrical system. No. 1,405,536; Feb. 7.
- Milton, John L., assignor to The Teagle Company, Cleveland, Ohio. Electric switch. No. 1,405,537; Feb. 7.
- Milton, John L., assignor to The Teagle Company, Cleveland, Ohio. Driving mechanism for ignition generators. No. 1,412,414; Apr. 11.
- Milton, John L., Cleveland, Ohio, assignor to Motor Ignition & Devices Company. Magneto ignition system for internal-combustion engines. No. 1,421,286; June 27.
- Milton, John L., assignor, by mesne assignments, to The Teagle Company, Cleveland, Ohio. Magneto ignition system for internal-combustion engines. No. 1,423,672; July 25.
- Milton, John V., and C. E. Marsh, Webb City, Mo. Camp table. No. 1,436,772; Nov. 28.
- Milton, Joseph B., Enid, Okla. Thrashing machine. No. 1,413,758; Apr. 25.
- Milwaukee Corrugating Co. (See Albert, Michael, assignor.)
- Milwaukee Corrugating Company. (See Curtis, Lewis E., assignor.)
- Milwaukee Corrugating Company. (See Jones, Edmund H., assignor.)
- Milwaukee Gas Specialty Company. (See Rutz, Arnold O., assignor.)
- Milwaukee Reliance Boiler Works. (See Shover Lamar H., assignor.)
- Milwaukee Stamping Co. (See Clausen, William C., assignor.)
- Milwaukee Stamping Co. (See Petrie, August, assignor.)
- Milz, Max J., Taft, Calif. Pump-gear cable guide. No. 1,430,826; Oct. 3.
- Mimms, Claude, jr. (See Mimms, Edward N. and C., jr.)
- Mimms, Edward N. and C., jr., Guthrie, Ky. Lubricating system for engine crank cases. No. 1,430,919; Oct. 3.
- Minck, Paul H., Petersdorf, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Preparing a permanent and spinnable solution in the cupric ammonia process. No. 1,421,707; July 4.
- Minck, Paul H., Petersdorf, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Producing spun material resembling wool, cotton, or chappe from viscose solutions. No. 1,428,246; Sept. 5.
- Mine & Smelter Supply Company, The. (See Pollard, G. T., and Johnson, assignors.)
- Mine & Smelter Supply Company, The. (See Thompson, Charles E., assignor.)
- Mineart, Christ, and Hugh J. Cole, Brighton, Iowa. Corn-planter marker. No. 1,403,908; Jan. 17.
- Miner, Carl S. (See Stoddard, E. S., and Miner.)
- Miner, Carl S., assignor to The Quaker Oats Company, Chicago, Ill. Food product. No. 1,434,498; Nov. 7.
- Miner, Charles A., assignor to Limousine Body Company, Kalamazoo, Mich. Door and wall panel for vehicle bodies. No. 1,420,051; June 20.
- Miner, Clarence E., assignor of one-half to E. Crooks, Concordia, Kans. Flexible conduit for bolters. No. 1,407,211; Feb. 21.
- Miner, Eugene S., assignor of one-half to S. B. Sargeant, San Francisco, Calif. Attachment for tire carriers. No. 1,411,742; Apr. 4.
- Miner, Evermont B., Portland, Oreg. Tube beading or flanging machine. No. 1,420,383; June 20.
- Miner, Joseph A., assignor to American Metal Furniture Company, Indianapolis, Ind. Storage cabinet. No. 1,416,409; May 16.
- Miner, Paul H., Brockton, Mass. Sign. No. 1,418,012; May 30.
- Miner, Theodore J. (See Garvey, R., and Miner.)
- Miner, William. (See O'Connor, John F., assignor.)
- Miner, William H. (See Brenne, Arild M., assignor.)
- Miner, William H. (See Dath, Charles E., assignor.)
- Miner, William H. (See Geiger, William A., assignor.)
- Miner, William H. (See Lewis, Goodrich Q., assignor.)
- Miner, William H. (See Mendez, Manuel J., assignor.)
- Miner, William H. (See O'Connor, John F., assignor.)
- Miner, William H. (See Strid, Sven J., assignor.)
- Miner, William H. (See Townsend, Frederick B., assignor.)
- Miner, William H. (See Williams, Keith, assignor.)
- Miner, William H., Chazy, N. Y., assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump car. No. 1,402,172; Jan. 3.
- Miner, William H., Chazy, N. Y. Reinforced wood box-car end. No. 1,432,198; Oct. 17.
- Miner, William H., Chazy, N. Y., and J. F. O'Connor, Chicago, Ill.; said O'Connor assignor to said Miner. Railway friction draft rigging. No. 1,416,113; May 16.
- Mineral and Chemical Company. (See MacCarthy, Florence B., assignor.)
- Minerals Separation North American Corporation. (See Bailey, Lewis, assignor.)
- Minerals Separation North American Corporation. (See Broadbridge, W., Edser, and Sellers, assignors.)
- Minerals Separation North American Corporation. (See Edser, E., Sulman, and Jones, assignors.)
- Minetti, Antonio P., Ukiah, Calif. Protecting vegetation from frost. No. 1,437,149; Nov. 28.
- Minge, Einar, Chicago, Ill. Priming cup for internal-combustion engines. No. 1,439,015; Dec. 19.
- Mingle, Joseph P., assignor to Ball Brothers Glass Manufacturing Company, Muncie, Ind. Leer feeder. No. 1,436,455; Nov. 21.
- Minich Railway Appliance Corporation. (See Minich, Russell H., assignor.)
- Minich, Russell H., assignor to Minich Railway Appliance Corporation, Philadelphia, Pa. Car brake. No. 1,416,371; May 16.
- Minich, William L., Jr., and B. F. Mentzer, Waynesboro, Pa. Milk-bottle cap. No. 1,409,194; Mar. 14.
- Minier, William H., assignor to The K-M Manufacturing Company, Toledo, Ohio. Windshield wiper. No. 1,439,746; Dec. 26.
- Mininberg, Nathan, assignor to Bran Products Company, Dickinson, N. Dak. Flaked food product and producing the same. No. 1,411,641; Apr. 4.
- Mininberg, Nathan, assignor to Bran Products Company, Dickinson, N. Dak. Puffed food product and producing the same. No. 1,426,756; Aug. 22.
- Mining and Metallurgical Process Proprietary Limited. (See Rigg, Gilbert, assignor.)
- Minkemyer, James B., et al. (See Pierce, F. A., and Davidson, assignors.)
- Minkemyer, John G., et al. (See Pierce, F. A., and Davidson, assignors.)
- Minkoff, Charles I., New York, N. Y. Tag. No. 1,403,338; Jan. 10.
- Minks, Robert A., Dewey, Ill. Stack-forming apparatus. No. 1,415,891; May 16.
- Minneapolis Steel & Machinery Company. (See Junkin, John C., assignor.)
- Minneapolis Steel & Machinery Co. (See Record, J. L., and Campbell, assignors.)
- Minney, Arthur W., Stockton, Calif. Oil guide and dust protector. No. 1,405,313; Jan. 31.
- Minnich, Delbert W., Wadsworth, Ohio. Auto attachment. No. 1,416,569; May 16.
- Minnich, Mary C. (See Minnich, Simon B., assignor.)
- Minnich, Simon B., assignor to M. C. Minnich, Landisville, Pa. Press. No. 1,407,162; Feb. 21.
- Minnick, Alfred, Newark, N. J., assignor to M-V. All Weather Train Controller Company, Wilmington, Del. Safety auto control. No. 1,418,601; June 6.
- Minnick, Frederick L., assignor to Tubular Steel Automobile Wheel Manufacturing Company, Spokane, Wash. Wheel. No. 1,431,320; Oct. 10.
- Minnick, Warren R., Reading, Pa. Display panel. No. 1,423,003; July 18.
- Minnier, Blythe J. (See Bickel, H. F., and Minnier.)
- Minnier, Blythe J., Watertown, N. Y., and H. F. Bickel, Plainfield, N. J. Automatic train-pipe connector. No. 1,424,582; Aug. 1.
- Minnis, George F., Chicago, Ill., assignor to National Safety Window Device Company. Anchor and clip for window-washers' harness. No. 1,404,993; Jan. 31.
- Minnis, Henry M., Wylie, Tex. Cistern outlet. No. 1,416,228; May 16.
- Minor, Frank W., Richmond, Va. Reproducer. (Reissue.) No. 15,269; Jan. 17.
- Minor, Marcus L., Atlanta, Ga. Double clasp. No. 1,419,683; June 13.
- Minor, Robert B., San Antonio, Tex. Can opener. No. 1,406,750; Feb. 14.
- Minor, William A., assignor to Luitwieler Pumping Engine Company, Rochester, N. Y. Deep-well pump. No. 1,425,673; Aug. 15.
- Minorsky, Nicolai, New York, N. Y. Automatic steering device. No. 1,436,280; Nov. 21.
- Minshull, Robert, Waterloo, Wis., assignor of one-half to P. B. Goddard, Wilmette, Ill. Stable appliance. No. 1,423,241; July 18.

Alphabetical list of patentees—Continued.

- Minton, Calvin J., Gage, Okla. Stock yoke. No. 1,411,863; Apr. 4.
- Minton, John P. (See Arnold, H. D., and Minton.)
- Minton, John P., East Orange, N. J., and C. A. Finley, Brooklyn, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone transmitter. No. 1,432,885; Oct. 24.
- Minton, Ogden, Greenwich, Conn. Apparatus for maintaining and removing liquid seal for vacuum apparatus. No. 1,423,242; July 18.
- Minton, Richard. (See Donovan, William J., assignor.)
- Mintz, Harry, Boston, Mass. Couch hammock. No. 1,414,432; May 2.
- Mintz, Harry, Boston, Mass. Hammock. No. 1,414,433; May 2.
- Mintz, Harry, Boston, Mass. Attachment for bedsprings. No. 1,431,976; Oct. 17.
- Mintz, Harry, Boston, Mass. Davenport bed. No. 1,437,771; Dec. 5.
- Mintz, M. J., et al. (See Abrams, Arthur J., assignor.)
- Mintzies, Louis, Brooklyn, N. Y. Cuspidor. No. 1,406,472; Feb. 14.
- Minutoli, Saint, Houston, Tex. Display device. No. 1,413,483; Apr. 18.
- Minvielle, Leonard L. (See Jewell, H. B., and Minvielle.)
- Miolla, Ralph, Mount Vernon, N. Y. Universal test indicator. No. 1,413,232; Apr. 18.
- Mioton, Sidney F., New Orleans, La. Fluid-measuring apparatus. No. 1,411,503; Apr. 4.
- Mirk, Paul, New York, N. Y. Thermostatic valve-controlling apparatus. No. 1,408,120; Feb. 28.
- Mirk, Paul, New York, N. Y. Thermostatic air valve. No. 1,408,121; Feb. 28.
- Mirk, Paul, New York, N. Y. Thermostatic device. No. 1,408,122; Feb. 28.
- Mirrieles, James F., assignor, by mesne assignments, to The Avey Drilling Machine Company, Cincinnati, Ohio. Drive mechanism for drilling and like machines. No. 1,439,747; Dec. 26.
- Mischke, Paul, East Rutherford, N. J. Ash sifter. No. 1,421,809; July 4.
- Mishler, Cloyd S. (See Mertz, Frank, assignor.)
- Misenheimer, Lindsay W., Great Falls, S. C. Frictional bushing coupling. No. 1,422,598; July 11.
- Miskin, Arthur R., Ucon, Idaho. Earth scraper. No. 1,427,693; Aug. 29.
- Misner, Edgar D., Detroit, Mich. Wringer. No. 1,409,752; Mar. 14.
- Missouri Paper Products Company. (See Goodyear, Charles H., assignor.)
- Missouri Paper Products Company. (See Hochenauer, J. Jr., assignor.)
- Mistalske, Peter J. (See Mistalske, Stanley J. and P. J.)
- Mistalske, Stanley J. and P. J., Chicago, Ill. Screw driver. No. 1,434,791; Nov. 7.
- Mitchel, John B., Bowmanville, Ontario, Canada. Sound amplifier. No. 1,408,761; Mar. 7.
- Mitchell, Andrew W., assignor to Ran W. Hat Shop Inc., Norwalk, Conn. Forming lining surfaces in hats. No. 1,429,364; Sept. 19.
- Mitchell, Ardon M., assignor of one-half to K. M. Widmer, Tuckahoe, N. Y. Making fireproof building material. No. 1,408,760; Mar. 7.
- Mitchell, Arthur K., Bronxville, assignor to St. Joseph Lead Company, New York, N. Y. Dipper for shoveling machines. No. 1,418,321; June 6.
- Mitchell, C. M., et al. (See Kirkpatrick, Otey R., assignor.)
- Mitchell, C. W. (See Jamison, Hermon E., assignor.)
- Mitchell Camera Co. (See Mitchell, George A., assignor.)
- Mitchell, Daniel B., Carlisle, Ky. Dog collar. No. 1,408,123; Feb. 28.
- Mitchell, Frank B., Hove, England. Repeating and stopping device for talking machines and the like. No. 1,429,755; Sept. 19.
- Mitchell, Frederick, assignor of one-half to C. M. Ford, Brooklyn, N. Y. Theatrical lamp. No. 1,417,935; May 30.
- Mitchell, Frederick W., and J. E. Pfeffer, Chicago, Ill. Method of and apparatus for purifying liquids. No. 1,431,245; Oct. 10.
- Mitchell, George, London, England. Apparatus for deshelling seeds having hard shells. No. 1,411,177; Mar. 28.
- Mitchell, George A., Huntington Park, assignor to Mitchell Camera Co., Los Angeles, Calif. Kinetograph movement. No. 1,403,339; Jan. 10.
- Mitchell, George A., assignor to Mitchell Camera Co., Los Angeles, Calif. Tripod and tripod clamp. No. 1,426,088; Aug. 15.
- Mitchell, George E., Haverhill, Mass. Windshield top for automobiles. No. 1,435,490; Nov. 14.
- Mitchell, George L. (See Glaudel, George, assignor.) (Reissue.)
- Mitchell, Harrison, J., Seattle, Wash., assignor to P. B. Yates Machine Company, Beloit, Wis. Cutter head. No. 1,405,614; Feb. 7.
- Mitchell, Harry C., Yonkers, N. Y. Ornamenting device and method. No. 1,422,599; July 11.
- Mitchell, Harry R., assignor to Mitchell Products Company, Seattle, Wash. Float-operated circuit closer. No. 1,435,411; Nov. 14.
- Mitchell, Harry R., assignor to Mitchell Products Company, Seattle, Wash. Battery terminal. No. 1,438,454; Dec. 12.
- Mitchell, Howard S., Homer, La. Fire extinguisher. No. 1,421,979; July 4.
- Mitchell, Irvie D., Rose, Iowa. Draft equalizer. No. 1,425,407; Aug. 8.
- Mitchell, Isaac, Oakland, Calif. Leather press. No. 1,437,002; Nov. 28.
- Mitchell, J. R., et al. (See Keller, John F., assignor.)
- Mitchell, John, and J. C. G. Cossey, London, England. Coupling for railway and like vehicles. No. 1,431,833; Oct. 10.
- Mitchell, John B., et al. (See Mitchell, Robert B., assignor.)
- Mitchell, John C., Sterling, Kans. Irrigating machine. No. 1,429,756; Sept. 19.
- Mitchell, John E., St. Louis, Mo. Cotton extracting and cleaning machine. No. 1,426,588; Aug. 22.
- Mitchell, John E., and D. Parks, St. Louis, Mo. Heel-forming attachment for heel-building machines. No. 1,403,184; Jan. 10.
- Mitchell, John E., and D. Parks, St. Louis, Mo. Heel-log-cutting machine. No. 1,423,621; July 25.
- Mitchell, John E., and D. Parks, St. Louis, Mo. Heel-blank-building machine. No. 1,432,080; Oct. 17.
- Mitchell, John H., Price Creek, Colo. Antismut grain and soil treating process and apparatus. No. 1,409,564; Mar. 14.
- Mitchell, John R. (See Andersen, C. F., and Mitchell.)
- Mitchell, Joseph, Farmington, Conn. Wrench. No. 1,411,365; Apr. 4.
- Mitchell, Joseph B., Detroit, Mich. Safety door for banks. No. 1,413,235; Apr. 18.
- Mitchell, Lawrence O., Kansas City, Mo. Tire. No. 1,430,100; Sept. 26.
- Mitchell, Lorin E., and A. J. White, Cleveland, Ohio, assignors to General Electric Company. Tipless incandescent lamp and similar article. No. 1,423,956; July 25.
- Mitchell, Lorin E., and A. J. White, Cleveland, Ohio, assignors to General Electric Company. Stem-making machine. No. 1,423,957; July 25.
- Mitchell, Mary P., Eaton, Ohio. Tire. No. 1,410,704; Mar. 28.
- Mitchell, Oliver, Brookline, Mass. Fountain pen. No. 1,416,302; May 16.
- Mitchell, Oliver, Brookline, Mass. Fountain pen. No. 1,431,538; Oct. 10.
- Mitchell, Oliver, Brookline, Mass. Fountain pen. No. 1,431,539; Oct. 10.
- Mitchell, Presse B., Homer, La. Collapsible bit. No. 1,435,491; Nov. 14.
- Mitchell Products Company. (See Mitchell, Harry R., assignor.)
- Mitchell, Raymond C., assignor to Webster & Perks Tool Company, Springfield, Ohio. Spindle cooling and lubricating means. No. 1,404,538; Jan. 24.
- Mitchell, Richard S. M., Port Jefferson, N. Y. Rotary piston apparatus. No. 1,405,736; Feb. 7.
- Mitchell, Richard S. M., Port Jefferson, N. Y. Pump. No. 1,432,081; Oct. 17.
- Mitchell, Robert B., assignor of one-eighth to J. B. Mitchell, five-sixteenths to E. C. McKinney, and one-fourth to P. A. McKinney, Homestead, Pa. Bottle-holder. No. 1,436,515; Nov. 21.
- Mitchell, Samuel, Detroit, Mich. Station indicator. No. 1,414,369; May 2.
- Mitchell, Thurston W. (See Holmsted, F. K., and Mitchell.)
- Mitchell, William A., Denison, Tex. Step. No. 1,436,281; Nov. 21.
- Mitchell, William A., Denison, Tex. Adjustable device for dressing down bearings. No. 1,438,389; Dec. 12.
- Mitchell, William F., Clifton, N. J., assignor of one-half to F. R. Allen, Passaic, N. J. Grease cellar. No. 1,423,502; July 18.
- Mitchell, William H., Richmond, Ind. Doll head. No. 1,414,968; May 2.
- Mitchell, William H., Sulphur Well, Ky. Hoe drill. No. 1,415,674; May 9.
- Mitchell, William M., Louisville, Ky., assignor to The P. & M. Company, Chicago, Ill. Rail anchor. No. 1,408,626; Mar. 7.
- Mitchell, William R. (See Smith, Oscar A., assignor.)
- Mitchell, William S. (See Coyle, A. A., and Mitchell.)
- Mitelman, Leon, Chicago, Ill. Wave motor. No. 1,420,332; June 20.
- Mitnick, Jacob J. (See Epstein, H., Mitnick, and Bernstein.)
- Mitrovich, John I., San Francisco, Calif. Groove cutter. No. 1,411,864; Apr. 4.
- Mitsareff, Blagoye D., Wolf Point, Mont. Wheel clamp. No. 1,430,177; Sept. 26.
- Mitscherling, Waldemar O., assignor to Atlas Powder Company, Wilmington, Del. Preparation and preservation of viscose solutions of cellulose for the production of films, threads, and filaments. No. 1,415,040; May 9.
- Mitscherling, Waldemar O., assignor to Atlas Powder Company, Wilmington, Del. Carrying out acid or alkaline reductions. No. 1,432,775; Oct. 24.

Alphabetical list of patentees—Continued.

- Mitscherling, Waldemar O., assignor to Atlas Powder Company, Wilmington, Del. Preparation of viscose solutions of cellulose for the production of cellulose films, filaments, or threads. No. 1,435,650; Nov. 14.
- Mittag, Albert H., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 1,423,958; July 25.
- Mittag, Albert H., Schenectady, N. Y., assignor to General Electric Company. Frequency changer. No. 1,423,959; July 25.
- Mittasch, Alwin, and F. Winkler, assignors to Badische Anilin- & Soda-Fabrik, Ludwigshafen-on-the-Rhine, Germany. Manufacture of finely-divided sulphur. No. 1,429,522; Sept. 19.
- Mittasch, Alwin, and M. Schumann, assignors, by mesne assignments, to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Bavaria, Germany. Desulphurizing gases. No. 1,430,920; Oct. 3.
- Mittasch, Alwin, J. Jannek, and G. Wietzel, assignors to Badische Anilin- & Soda-Fabrik, Ludwigshafen-on-the-Rhine, Germany. Recovery of valuable products from coal gases. No. 1,412,954; Apr. 18.
- Mittelsadt, William, Ludington, Mich. Shoe attachment. No. 1,411,642; Apr. 4.
- Mitton-Braley Aero-Plane Control Co. (See Mitton, R. E., and Braley, assignors.)
- Mitton, Robert E., and W. M. Braley assignors to Mitton-Braley Aero-Plane Control Co., Salt Lake City, Utah. Controlling mechanism for flying machines. No. 1,422,288; July 11.
- Mitts, Philip S., and W. J. Winston, assignors to Mitts & Merrill, Saginaw, Mich. Cutting machine. No. 1,423,867; July 25.
- Mitts, Philip S., and W. J. Winston, assignors to Mitts & Merrill, Saginaw, Mich. Adjustable mounting for stationary knives of cutting machines. No. 1,430,668; Oct. 3.
- Mitts & Merrill. (See Mitts, P. S., and Winston, assignors.)
- Mitzel, Harvey F., Providence, R. I., assignor to The Revere Rubber Company. Fuse-cap protector. No. 1,416,856; May 23.
- Miura, Masashi. (See Ikeda, J., and Miura.)
- Mix, Edwin S., Rochester, N. Y. Laundry marker. No. 1,409,391; Mar. 14.
- Mix, Edwin S., assignor to North East Electric Company, Rochester, N. Y. Electric connection. No. 1,403,185; Jan. 10.
- Mix, Edwin S., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. No. 1,427,162; Aug. 29.
- Mix, George W., assignor to F. E. Mason & Son, Batavia, N. Y. Embossing machine. No. 1,410,212; Mar. 21.
- Mix, Melville W., Mishawaka, Ind. Airplane fuselage. No. 1,402,431; Jan. 3.
- Mix, Melville W., Mishawaka, Ind. Airplane fuselage. No. 1,428,341; Sept. 5.
- Mixon, Louis L., assignor of three-eighths to R. A. Steward, Tulsa County, and one-fourth to G. A. Cairns, Tulsa, Okla. Concrete building block. No. 1,412,666; Apr. 11.
- Mixer, John F., Los Angeles, Calif. Device for dispensing gasoline. No. 1,408,901; Mar. 7.
- Miyagi, Takeo, Waipahu, Hawaii. Automobile bumper. No. 1,412,212; Apr. 11.
- Mizer, Joseph J., assignor to Walker Manufacturing Company, Racine, Wis. Lifting jack. No. 1,435,324; Nov. 14.
- Mizer, Joseph J., and V. Jakob, assignors to Walker Manufacturing Company, Racine, Wis. Vehicle roller jack. No. 1,437,606; Dec. 5.
- Mizuno, Rihachi, Kita Ku, Osaka, Japan. Glove. No. 1,404,214; Jan. 24.
- Mizusawa, Isoma, et al. (See Yamamoto, Yoshitaro, assignor.)
- M-L Magneto Syndicate Limited, The. (See Watson, Ernest A., assignor.)
- Moakler, John W., East Worcester, N. Y. Driving mechanism for motor vehicles. No. 1,438,051; Dec. 5.
- Moakley, Henry, assignor to H. C. Ford, New York, N. Y. Weighing instrument. No. 1,435,250; Nov. 14.
- Möbefabrik und Vertriebsgesellschaft m. b. H. (See Schenk, Georg, assignor.)
- Moberry, Leonard A., Oakland, Calif. Hair comb. No. 1,419,579; June 13.
- Mobley, Andrew J., et al. (See Bodie, Albert B., assignor.)
- Mobley, Lawrence J., and A. V. Hays, Springfield, Mo. Transmission gear. No. 1,424,208; Aug. 1.
- Mochar Leather Goods Corporation. (See Charsky, Benjamin, assignor.)
- Mochel, Louise A., Chicago, Ill. Copyholder. No. 1,417,762; May 30.
- Mocine, Harry F. (See Heslewood, W. R., and Mocine.)
- Mocine, Harry F., et al., trustees. (See Heslewood, W. R., and Mocine, assignors.)
- Mock, Frank C., assignor to Stromberg Motor Devices Company, Chicago, Ill. Carburetor. No. 1,404,879; Jan. 31.
- Mock, Frank C., assignor to The Stromberg Motor Devices Company, Chicago, Ill. Carburetor. No. 1,416,857; May 23.
- Mock, Frank C., assignor to Stromberg Motor Devices Company, Chicago, Ill. Carburetor. No. 1,416,858; May 23.
- Mock, Hugo, New York, N. Y. Confectionery. No. 1,402,004; Jan. 3.
- Mock, Hugo, New York, N. Y. Food product. No. 1,414,576; May 2.
- Mock, Hugo, New York, N. Y. Coffee-making device. No. 1,428,046; Sept. 5.
- Mock, Hugo, New York, N. Y. Heat insulator. No. 1,433,088; Oct. 24.
- Mock, Hugo, New York, N. Y. Packaging articles. No. 1,434,397; Nov. 7.
- Modern Broom Machinery Company. (See Duvall, G. W., and Beebe, assignors.)
- Modern Grinder Manufacturing Co. (See Bockshe, Ely, assignor.)
- Modine, Arthur B., Chicago, Ill. Radiator core. No. 1,416,570; May 16.
- Modine, Arthur B., Racine, Wis. Detachable-core radiator. No. 1,433,398; Oct. 24.
- Modine, Arthur B., Racine, Wis. Temperature-controlling mechanism for internal-combustion engines. No. 1,433,399; Oct. 24.
- Modjeski, Ralph, Philadelphia, Pa. Reinforced bridge span. No. 1,417,936; May 30.
- Moe, George J. (See Robertson, A. F., and Moe.)
- Moe, Gerhard, Eau Claire, Wis. Taking photographic measurements. No. 1,414,481; May 2.
- Moe, Gerhard, Eau Claire, Wis. Photographic measuring device. No. 1,418,002; June 6.
- Moe, Leonidas L., assignor to The Motor Hotels Company, Denver, Colo. Automobile hotel. (Reissue.) No. 15,333; Apr. 11.
- Moekel, Hartmann J., St. Louis, Mo. Photographer's lamp. No. 1,430,827; Oct. 3.
- Moellendick, Philipp, New York, N. Y. Gas burner attachment. No. 1,414,146; Apr. 25.
- Moeller, Annetta T., Indianapolis, Ind. Powder puff. No. 1,438,850; Dec. 12.
- Moeller, Isak, and R. Arkwright, New Glasgow, Nova Scotia, Canada, assignors to S. H. Campbell, St. Louis, Mo. Uncoupling device. No. 1,439,833; Dec. 26.
- Moeller, Joseph F., assignor to W. Porter, Chicago, Ill. Cigarette case. No. 1,408,464; Mar. 7.
- Moeller, Peter B., Flint, Mich. Auto direction signal. No. 1,405,314; Jan. 31.
- Moeller, Richard, and O. Otterson, Michigan City, Ind. Crude-oil-burning furnace. No. 1,417,092; May 23.
- Moen, Herman C., and G. H. Benson, Cambridge, Wis. Conveying apparatus. No. 1,415,892; May 16.
- Moen, Louis, Ulen, Minn. Key holder. No. 1,410,213; Mar. 21.
- Moersch, William, Belvedere, N. J. Water-power system. No. 1,434,138; Oct. 31.
- Moffat, David D., Hayden, Ariz. Ore concentration. No. 1,415,105; May 9.
- Moffat, Frederick W., Weston, Ontario, Canada. Electric water heater. No. 1,406,994; Feb. 21.
- Moffat, Frederick W., Weston, Ontario, Canada. Electric furnace. No. 1,413,678; Apr. 25.
- Moffat, Frederick W., Weston, Ontario, Canada. Electric heating element. (Reissue.) No. 15,477; Oct. 24.
- Moffat, Frederick W., Weston, Ontario, Canada. Electric oven. No. 1,438,253; Dec. 12.
- Moffat, John Q., et al. (See Wyckoff, Clyde E., assignor.)
- Moffatt, Ansil, Indianapolis, Ind., assignor to E. H. Wolcott, trustee for associate underwriter, and said Moffatt. Vegetable albuminoid and producing it. No. 1,425,033; Aug. 8.
- Moffatt, Edward H. and W. H., Toronto, Ontario, Canada. Stall. No. 1,427,224; Aug. 29.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Trimming mechanism for sewing machines. No. 1,403,807; Jan. 17.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Stitch-forming mechanism for sewing machines. No. 1,405,855; Feb. 7.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Sewing machine for applying button stay strips. No. 1,422,220; July 11.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine frame. No. 1,423,243; July 18.
- Moffatt, James R., assignor to Union Specialty Machine Company, Chicago, Ill. Feeding mechanism for sewing machines. No. 1,439,432; Dec. 19.
- Moffatt, James R., and A. H. Simmons, assignors to Union Special Machine Company, Chicago, Ill. Device for positioning loopers of sewing machines for threading. No. 1,403,093; Jan. 10.
- Moffatt, William H. (See Moffatt, Edward H. and W. H.)
- Moffett, Harley M., Deshler, Ohio. Automobile direction signal. No. 1,408,377; Feb. 28.
- Moffett, Patrick F., Worcester, Mass. Instrument for teaching and perfecting penmanship. No. 1,418,196; May 30.
- Moffitt, Clyde B., Omaha, and E. Dau, Scribner, Nebr.; said Dau assignor to said Moffitt. Motor-truck dump. No. 1,403,050; Jan. 10.
- Moffitt, Percy R., Pawtucket, R. I. Key-locking escutcheon. No. 1,405,144; Jan. 31.
- Mogford, Edmund C., assignor to Clark Equipment Company, Buchanan, Mich. Axle for motor vehicles. No. 1,437,474; Dec. 5.
- Mogni, Charles M., New York, N. Y. Stripping machine. No. 1,433,400; Oct. 24.

Alphabetical list of patentees—Continued.

- Mohawk Carpet Mills, Inc. (See Hathaway, Edgar F., assignor.)
- Mohawk Carpet Mills Inc. (See Lea, Charles, assignor.)
- Mohegan Tube Co. (See Sussman, Maxwell H., assignor.)
- Mohn, Albert. (See Mohn, Thomas and A.)
- Mohn, Arnold, Chicago, Ill. Waterproofing. (Reissue.) No. 15,465; Oct. 10.
- Mohn, Mina L. (See Foster, Bert D., assignor.)
- Mohn, Thomas and A., Red Wing, Minn. Automobile rim. No. 1,415,675; May 9.
- Mohnacs, Andrew I., Passaic, N. J. Vegetable cutter. No. 1,423,950; July 25.
- Mohr, Adolph. (See Rowe, E. C., and Mohr.)
- Mohr, Carl J. and U. J., Dayton, Ohio. Ladder platform and roof jack. No. 1,423,725; July 25.
- Mohr, Carl J. and U. J., Dayton, Ohio. Paint-bucket holder. No. 1,423,726; July 25.
- Mohr Company. (See Mohr, Otto H., assignor.)
- Mohr, Herman M., Clinton, Mass. Manuscript holder. No. 1,431,834; Oct. 10.
- Mohr, Otto H., assignor to Mohr Company, Inc., Chicago, Ill. Reflector shade. No. 1,437,259; Nov. 28.
- Mohr, Robert, assignor of one-half to Naamloose Venootschap De Eibergsche Stoomblekerij, Voorheen G. J. Ten Cate En Zoon, Eibergen, Netherlands. Method and device for bleaching textile fibers and fabrics, tissues, and the like. No. 1,304,467; Jan. 24.
- Mohr, Urban J. (See Mohr, Carl J. and U. J.)
- Mohrbacher, Adolph, Denver, Colo. Universal fence-wire attachment for concrete posts. No. 1,431,321; Oct. 10.
- Mohrman, Herman R., Dell Rapids, S. Dak. Combined puller and press. No. 1,426,835; Aug. 22.
- Mohs, Julius, Dessau, assignor to Deutsche Werke Aktien-gesellschaft, Berlin, Germany. Grater. No. 1,408,762; Mar. 7.
- Mohun, John L., New York, N. Y. Car roof. No. 1,429,961; Sept. 26.
- Moir, George E., Campbellton, New Brunswick, Canada. Flying machine. No. 1,403,909; Jan. 17.
- Moir, William A., Burwood, near Sydney, New South Wales, Australia. Differential gearing for automobile driving axle. No. 1,407,703; Feb. 28.
- Moisant, Alfred J., New York, N. Y., assignor, by mesne assignments, to General Research Laboratories. Apparatus for and process of preparing ozone compounds. No. 1,406,058; Feb. 7.
- Moise, Harmon D., assignor of sixty per cent to R. B. Belser, Sumter, S. C. Automatic flushing apparatus. No. 1,413,484; Apr. 18.
- Mojonnier Bros. Co. (See Frohring, W. O., and Mojonnier, assignors.)
- Mojonnier Bros. Co. (See Mojonnier, Julius J., assignor.)
- Mojonnier Bros. Co. (See Mojonnier, Timothy, assignor.)
- Mojonnier, Julius J. (See Frohring, W. O., and Mojonnier.)
- Mojonnier, Julius J., Oak Park, assignor, by mesne assignments to Mojonnier Bros. Co., Chicago, Ill. Vacuum-pan condenser. No. 1,431,322; Oct. 10.
- Mojonnier, Timothy, Oak Park, assignor to Mojonnier Bros. Co., Chicago, Ill. Liquid cooler. No. 1,437,540; Dec. 5.
- Mokler, Herbert R., Bradford, Ill. Clamp. No. 1,403,808; Jan. 17.
- Molas, Edouard E., Paris, France. Device for the protection of the cooling means of explosion motors against the effects of frost. No. 1,405,797; Feb. 7.
- Molby, Frank M., Los Angeles, Calif. Gas brooder stove. No. 1,410,532; Mar. 21.
- Molenda, Henry, Ollie, Mont. Ventilator. No. 1,430,828; Oct. 3.
- Molesworth, Frank, Auckland, New Zealand. Nail for packing cases and the like. No. 1,428,111; Sept. 5.
- Molesworth, Henry B., Bexley, England. Motor-driven road vehicle. No. 1,404,631; Jan. 24.
- Molin, Arthur E., Stillman Valley, Ill. Aeroplane. No. 1,433,325; Nov. 14.
- Molinari, Domenico, Brooklyn, N. Y. Bottle stopper and measuring glass. No. 1,419,580; June 13.
- Moline Heat. (See Shurtleff, Wilfred, assignor.)
- Moline Plow Company. (See Dickinson, Harry S., assignor.)
- Moline Plow Company. (See Esping, Conrad, assignor.)
- Moline Plow Company Incorporated. (See Seaholm, John P., assignor.)
- Molins, Walter E., London, England. Apparatus for applying adhesives alternately to both faces of sheets of paper or the like. No. 1,419,466; June 13.
- Molins, Walter E., London, England. Apparatus for collecting and conveying cigarettes or the like. No. 1,422,600; July 11.
- Molique, George A., Wood River, Ill. Steam trap. No. 1,427,116; Aug. 29.
- Moll, Frederick L., Turramurra, near Sydney, New South Wales, Australia. Apparatus for the artificial incubation of eggs. No. 1,438,455; Dec. 12.
- Moller, Edward A., Baltimore, Md. Mortise Gauge. No. 1,432,485; Oct. 17.
- Moller, Edvard M. (See Benedict, H. A., and Moller.) (Reissue.)
- Moller, Otto F., assignor to National Motor Car & Vehicle Corporation, Indianapolis, Ind. Windshield-supporting bracket. No. 1,416,114; May 16.
- Mollet, Nicholas, Massillon, Ohio. Advertising sign. No. 1,421,022; June 27.
- Mollier, Walther, Vienna, Austria, assignor to Siemens-Schuck rtwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Three-phase driving system for marine propellers. No. 1,433,089; Oct. 24.
- Molloy, Daniel E., Fall River, Mass. Carding or straightening the fibers of cotton. No. 1,406,474; Feb. 14.
- Molloy, Daniel E., assignor of one-half to J. K. Lanning, Fall River, Mass. Carding or straightening the fibers of cotton. No. 1,427,077; Aug. 22.
- Molloy, Joseph T., and H. H. Hempte, Poughkeepsie, N. Y. Hatch for automobile and other doors. No. 1,419,639; June 13.
- Molloy, Patrick J., New York, N. Y. Water heating and circulating system. No. 1,411,291; Apr. 4.
- Molloy, William J., Chicago, Ill. Convertible revolver pistol. No. 1,411,800; Apr. 4.
- Molnár, Frank. (See Mészáros, J. and Molnár.)
- Molnar, Theodore G., New York, N. Y. Gas meter. No. 1,439,185; Dec. 19.
- Moloney, Thomas O., et al. (See Carter, Lionel A., assignor.)
- Molony, Donald P., assignor to Marvel Carburetor Company, Flint, Mich. Carburetor. No. 1,404,215; Jan. 24.
- Moltz, Charles J., Richmond, Va. Screw jack. No. 1,435,412; Nov. 14.
- Molyneux, George E., Bayonne, N. J. Trimming mechanism for automatic sewing machines. No. 1,403,518; Jan. 17.
- Molyneux, George E., Bayonne, N. J. Stopping mechanism for sewing machines, etc. No. 1,417,093; May 23.
- Molynoux, George E., Bayonne, N. J. Wheel lock for quick-detachable wheels. No. 1,417,276; May 23.
- Molyneux, George E., Bayonne, N. J., assignor to The Singer Manufacturing Company. Feeding mechanism for sewing machines. No. 1,402,945; Jan. 10.
- Molyneux, Lucy. (See Phelps, V. D., and Molyneux.)
- Mombaruzzo, Luigi. (See Benvisuto, P., and Mombaruzzo.)
- Mombaruzzo, Luigi, assignor of one-third to P. Benvisuto and one-third to O. O. Ceccarini, New York, N. Y. Reducing valve. No. 1,437,437; Dec. 5.
- Momsen, Walter W. (See Huss, F. E., and Momsen.)
- Monaco, Antonio, Buenos Aires, Argentina. Suspenders. No. 1,414,199; Apr. 25.
- Monaghan, Thomas H., Chicago, Ill. Air heater. No. 1,425,674; Aug. 15.
- Monahan, Daniel C., Warren, Ill. Track construction. No. 1,438,456; Dec. 12.
- Monahan, Henry, Meriden, Conn. Line holder. No. 1,423,868; July 25.
- Monahan, Louis J., deceased, B. J. Daly, Oshkosh, Wis., administrator. Air-dispensing apparatus. No. 1,414,092; Apr. 25.
- Monahan, Thomas W., New York, N. Y. Valve. No. 1,419,290; June 13.
- Monarch Bobbin Cleaner Co. (See Stutts, Asa L., assignor.)
- Monarch Engineering Company, The. (See De Ville, Edward J., assignor.)
- Monarch Engineering Company. (See Stephenson, James R., assignor.)
- Monarch Marking System Company, The. (See Kohnle, Frederick, assignor.)
- Monarch Metal Products Company. (See Lane, Alfred M., assignor.)
- Monarch Tag Company, The. (See Kohnle, Frederick, assignor.)
- Moncrief, Jesse R. (See De Vol, B. E., and Moncrief.)
- Moncre, Robinson, Alexandria, Va. Lock for demountable rims and tires. No. 1,417,549; May 30.
- Mondo, Charles J. (See Lo Verde, J., and Tubiolo, assignors.)
- Monette, Francis. (See Laurier, R. C., and Monette.)
- Monger, Roy S., New York, assignor to L. Stickley, Fayetteville, and J. G. Stickley, New York, N. Y. Furniture structure. No. 1,402,432; Jan. 3.
- Mongermon, Eugène, assignor to Société Anonyme des Aeroplanes G. Voisin, Paris, France. Lubricating arrangement for internal-combustion engines. No. 1,440,094; Dec. 26.
- Mongillo, Enrico, Bradford, Pa. Amusement apparatus. No. 1,402,368; Jan. 3.
- Moninger, Annie R., administrator. (See Moninger, Robert D.)
- Moninger, Robert D., deceased, Washington, Pa. A. R. Moninger, administrator. Photographic-printing apparatus. No. 1,417,403; May 23.
- Monitor Bi-Loop Radiator Company. (See Vaux, Frederick J., assignor.)
- Monitor Controller Company. (See Whittingham, George H., assignor.)
- Monitor Controller Company of Baltimore. (See Holmes, W. T., and Whittingham, assignors.)
- Monitor Stove Company, The. (See Holler, G. F., and Schmidt, assignors.)
- Monitor Stove Company, The. (See Koehler, Julius B., assignor.)
- Monk, Richard B., Sheldon, Iowa. Storm-sash fastener. No. 1,412,191; Apr. 11.

Alphabetical list of patentees—Continued.

- Monkhorst, Hermanus G., Delft, Netherlands. Cork-cutting machine. No. 1,430,829; Oct. 3.
- Monmouth, Joseph C., Catonsville, Md. Attachment for tobacco pipes. No. 1,423,869; July 25.
- Monolithic Hollow Concrete Form Company. (See Hillman, E. B., Kimber, and Dadisman, assignors.)
- Monosmith, David J., Spencer, Ohio. Liquid pistol. No. 1,410,026; Mar. 21.
- Monrie, Collier, Waco, Tex. Hair clipper. No. 1,416,115; May 16.
- Monro, Archibald V. H., Wellington, New Zealand. Reinforced cover sheet. No. 1,411,504; Apr. 4.
- Monro, David L., Calcutta, India. Truck for handling loaded-goods platforms and working the same. No. 1,436,665; Nov. 28.
- Monroe Calculating Machine Company. (See Phinney, Edgar E., assignor.)
- Monroe Calculating Machine Company. (See White, Nelson, assignor.)
- Monroe, Collier, Waco, Tex. Hair clipper. No. 1,417,094; May 23.
- Monroe, E. P. (See Taylor, Sidney, assignor.)
- Monroe, Gilbert K., Sidney, Ohio. Machine for crushing metal containers. No. 1,402,433; Jan. 3.
- Monroe, Simon E., Philadelphia, Pa. Comb. No. 1,415,188; May 9.
- Monroe, Will K., assignor to The Crown Hoisting Machinery Company, Cleveland, Ohio. Means for steering tractors. No. 1,404,468; Jan. 24.
- Monroe-Louisiana Carbon Company. (See Matlock, Chancey, assignor.)
- Monsarrat, Nicholas L., assignor to H. W. Kuechenmeister, St. Louis, Mo. Valve. No. 1,409,393; Mar. 14.
- Monsen, Adolph, Logansport, Ind. Oiling system for internal-combustion engines. No. 1,416,490; May 16.
- Montague, Harley H., Denver, Colo. Machine for manufacturing and finishing flowerpots. No. 1,439,970; Dec. 26.
- Montague, John W., Trenton, and V. G. Patrick, Postelle, assignors to Universal Seed Loading Company, Helena, Ark. Grain conveyor. No. 1,420,726; June 27.
- Montague, Merrell S., Twin Falls, assignor of one-half to J. W. Jones, Rigby, Idaho. Beet harvester. No. 1,434,834; Nov. 7.
- Monte, Fred, Newark, N. J. Dishwashing machine. (Reissue.) No. 15,264; Jan. 10.
- Montee, Tracy D., Iloilo, P. I. Pressure operated switch. No. 1,416,491; May 16.
- Monteilhet, Antonin, assignor to Société Anonyme des Télégraphes Edouard Belin, Paris, France. Electric transmission arrangement. No. 1,411,366; Apr. 4.
- Monteilhet, Antonin, assignor to Société Anonyme des Télégraphes Edouard Belin, Paris, France. Method of and apparatus for facsimile telegraphy. No. 1,434,064; Oct. 31.
- Montelius, Carl O. J. (See Ameln, R., and Montelius.)
- Montero, Juan C., Washington, D. C. Indicator. No. 1,414,298; Apr. 25.
- Montgomery, Gustavus A., assignor of one-half to The Guiberson Corporation, Dallas, Tex. Bit holding tool. No. 1,407,292; Feb. 21.
- Montgomery, J. R., Company, The. (See Mason, George L., assignor.)
- Montgomery, James, Scottdale, Pa., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Flask-centering device for helical ramming machines. No. 1,434,960; Nov. 7.
- Montgomery, James P., assignor of forty per cent to C. H. Brand, Moore, and ten per cent to J. G. Lindsay, Norman, Okla. Pump. No. 1,420,052; June 20.
- Montgomery, John H., New York, N. Y. Closure for bottles, jars, and other receptacles. No. 1,427,694; Aug. 29.
- Montgomery, John T., Verona, Mo. Automobile puller and power mechanism. No. 1,406,752; Feb. 14.
- Montgomery, Joseph H., San Jose, Calif. Forced-feed oiler. No. 1,438,163; Dec. 5.
- Montgomery, Leal L., Superior, Wis. Mixer. No. 1,433,469; Oct. 24.
- Montgomery, LeRoy. (See Church, I., and Montgomery.)
- Montgomery, Oran W., Lakewood, Ohio. Portable electric liquid heater. No. 1,425,034; Aug. 8.
- Montgomery, Philip, Hartford, Conn. Shock absorber. No. 1,439,433; Dec. 19.
- Montgomery, Robert M., Pontiac, Mich. Seat. No. 1,406,059; Feb. 7.
- Montgomery, Walter R., Belpre, Kans. Chain tightener. No. 1,405,615; Feb. 7.
- Montgomery Ward & Co. (See Zint, Frank W., assignor.)
- Monti, Eudo, Turin, Italy. Preparing stable predigested foods. No. 1,416,372; May 16.
- Montonna, Ralph E., Syracuse, assignor to Semet-Solvay Company, Solvay, N. Y. Producing benzyl alcohol. No. 1,416,859; May 23.
- Montooth, Harry M., Newark, N. J. Wrench. No. 1,434,139; Oct. 31.
- Montville, Margaret C., Kansas City, Mo. Foot rest. No. 1,432,776; Oct. 24.
- Mood, Arthur E., Wichita, Kans. Radiator protector. No. 1,428,179; Sept. 5.
- Mood, Philip G., Dugger, Ind. Rail tie and fastener. No. 1,425,125; Aug. 8.
- Moodie, Kenneth. (See Duun, B. W., and Moodie.)
- Moodie, Robert P., assignor of one-third to W. H. McIntyre and one-third to A. A. Dion, Ottawa, Ontario, Canada. Furnace. No. 1,417,095; May 25.
- Moody, Fred M., Whitman, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work support. No. 1,430,579; Oct. 3.
- Moody, Fred M., Whitman, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. No. 1,436,719; Nov. 28.
- Moody, Howard N., New Orleans, La. Viscosimeter. No. 1,405,538; Feb. 7.
- Moody, Howard N., New Orleans, La. Demountable rim. No. 1,426,089; Aug. 15.
- Moody, Howard N., New Orleans, La. Demountable rim. No. 1,426,090; Aug. 15.
- Moody, John R., Los Angeles, Calif. Hinge. No. 1,423,004; July 18.
- Moody, John R., Los Angeles, Calif. Hinge. No. 1,423,812; July 25.
- Moody, Joseph E., Chicago, Ill. Pressure conduit. No. 1,404,787; Jan. 31.
- Moody, Joseph E., assignor to Massey Concrete Products Corporation, Chicago, Ill. Pole-making machine. No. 1,410,705; Mar. 28.
- Moody, Joseph F., Ranger, Tex. Gripping device. No. 1,422,289; July 11.
- Moody, Walter S., Pittsfield, Mass., assignor to General Electric Company. Electric heating apparatus. No. 1,436,891; Nov. 28.
- Moody, William E., Columbus, Ohio, assignor to J. E. Jones, Switchback, W. Va. Loading machine. No. 1,420,207; June 20.
- Moors, Benjamin M., San Francisco, and L. E. Warner, Berkeley, assignors to Motor Protector Manufacturing Company, San Francisco, Calif. Circuit breaker. No. 1,414,659; May 2.
- Moors, Benjamin M., San Francisco, and L. E. Warner, Berkeley, assignors to Motor Protector Manufacturing Company, San Francisco, Calif. Circuit breaker. No. 1,431,678; Oct. 10.
- Moors, Louis P., Cincinnati, assignor to The Cleveland Trust Company, Cleveland, Ohio. Piston for internal-combustion motors. No. 1,402,308; Jan. 3.
- Moors, Louis P., Cincinnati, assignor to The Cleveland Trust Company, Cleveland, Ohio. Piston for internal-combustion motors. No. 1,402,309; Jan. 3.
- Moomaw, Elvin B., Joplin, Mo. Liner for cylinders. No. 1,437,904; Dec. 5.
- Moomy, Joseph G., Erie, Pa. Vulcanizing rubber tubes. No. 1,403,973; Jan. 17.
- Moomy, Joseph G., Erie, Pa. Wrench mechanism. No. 1,412,667; Apr. 11.
- Moomy, Joseph G., assignor to M. H. Moomy, Erie, Pa. Making rubber tubes. No. 1,433,291; Oct. 24.
- Moomy, Mary H. (See Moomy, Joseph G., assignor.)
- Moon, Alfred E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for making endless belts or rings. No. 1,420,727; June 27.
- Moon Brothers Manufacturing Company. (See Drew, John W., assignor.)
- Moon, Charles G., Jr., Memphis, Tenn. Vehicle door pocket. No. 1,412,700; Apr. 11.
- Moon, Claude E. (See Farrell, R. P., and Moon.)
- Moon, Frank, Oakland, assignor of one-half to A. M. Turel, San Jose, Calif. Means for refrigeration. No. 1,404,400; Jan. 24.
- Moon, Freeman S., assignor to International Precipitation Company, Los Angeles, Calif. Obtaining potassium chloride. No. 1,402,173; Jan. 3.
- Moon, George A., San Francisco, Calif. Door catch. No. 1,403,910; Jan. 17.
- Moon Motor Car Company. (See Friede, Julian S., assignor.)
- Moon, T. C. (See Martin, Oscar J., assignor.)
- Mooney, Timothy J., Nashville, Tenn. Heating system. No. 1,410,706; Mar. 28.
- Mooney, W. M. (See Kitchens, Archie L., assignor.)
- Moonist, Peter, Minneapolis, Minn. Gas burner. No. 1,433,218; Oct. 24.
- Moore, Aaron T., Oatman, Ariz. Tire-boot clamp. No. 1,414,969; May 2.
- Moore, Arden W. (See Wolfe, Claud D., assignor.)
- Moore, Arlington, assignor to Hobbs Manufacturing Company, Worcester, Mass. Machine for making lock washers. No. 1,404,994; Jan. 31.
- Moore, Arlington, Boston, Mass., assignor to Clarke-Moore Corporation, Wilmington, Del. Fabricating paper containers. No. 1,413,759; Apr. 25.
- Moore, Arlington, Boston, Mass., assignor to Clarke-Moore Corporation, Wilmington, Del. Paper container. No. 1,432,718; Oct. 17.
- Moore, Arlington, Boston, Mass., assignor to Clarke-Moore Corporation, Wilmington, Del. Paper container. No. 1,436,456; Nov. 21.
- Moore, Arlington, Boston, Mass., assignor to Clarke-Moore Corporation, Wilmington, Del. Paper receptacle. No. 1,436,457; Nov. 21.
- Moore, Arthur T., Batavia, N. Y. Mechanical movement. No. 1,405,058; Jan. 31.
- Moore, Barney, Chicago, Ill. Shoe rack. No. 1,405,539; Feb. 7.

Alphabetical list of patentees—Continued.

- Moore, Benjamin S., Wilksburg, Pa., assignor to West-inghouse Electric and Manufacturing Company. Bear-ing. No. 1,424,815; Aug. 1.
- Moore Brothers Company. (See Moore, Lewis, assignor.)
- Moore, Charles, Visalia, Calif. Changeable sign. No. 1,428,390; Sept. 5.
- Moore, Charles C., El Paso, assignor of one-half to R. E. Harris, El Paso County, Tex. Toilet. No. 1,439,748; Dec. 26.
- Moore, Charles D., White Salmon, Wash. Convertible automobile furniture. No. 1,408,708; Mar. 7.
- Moore, Charles R., Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Acoustic device. No. 1,426,757; Aug. 22.
- Moore, Clarence L., assignor to E. O. Edwards, Seattle, Wash. Pipe wrench. No. 1,404,178; Jan. 17.
- Moore, Claude, Cedar Rapids, Iowa. Convertible self cleaning rake. No. 1,436,189; Nov. 21.
- Moore, Claude, Cedar Rapids, assignor to F. L. Vernon, Newton, Iowa. Pneumatic cap. No. 1,426,402; Aug. 22.
- Moore, Clyde, assignor of one-half to H. B. Longworth, Hominy, Okla. Automatic outlet valve for oil-well casings. No. 1,407,562; Dec. 21.
- Moore, David. (See Dotts, Christ F., assignor.)
- Moore Dry Kiln Co. (See Bundrick, David D., assignor.)
- Moore, Edward J. and R. H., assignors to The W. W. Sly Manufacturing Company, Cleveland, Ohio. Separator. No. 1,427,117; Aug. 29.
- Moore, Edward M., and O. V. Peet, Indianapolis, Ind. Tire repair. No. 1,426,897; Aug. 22.
- Moore, Edward Y., Cleveland, Ohio. Chain shackle and making the same. No. 1,423,244; July 18.
- Moore Electric Corporation. (See Gray, William E., assignor.)
- Moore, Ella L., Los Angeles, Calif. Desk book support. No. 1,420,439; June 20.
- Moore, Enoch, Jr., Wilmington, Del. Golf-club carrier. No. 1,437,349; Nov. 28.
- Moore, Eric C., Rochester, N. Y. Loose-leaf binder. No. 1,403,616; Jan. 17.
- Moore, Eric C., Rochester, N. Y. Loose-leaf binder. No. 1,420,353; June 20.
- Moore, Eric C., Rochester, N. Y., assignor to Kalamazoo Loose Leaf Binder Co., Kalamazoo, Mich. Loose-leaf binder. No. 1,410,707; Mar. 28.
- Moore, Frank, and A. Gray, Toronto, Ontario, Canada. Carburetor attachment. No. 1,421,530; July 4.
- Moore, Franklin L., Carthage, Mo. Abrasive-material-feeding machine. No. 1,426,758; Aug. 22.
- Moore, Fred, Aurora, Ill. Trunk bed. No. 1,429,523; Sept. 19.
- Moore, Fred R., Chicago, Ill. Automobile indicator. No. 1,419,467; June 13.
- Moore, George, Joplin, Mo. Food product and process. No. 1,415,893; May 16.
- Moore, George, Oakland, Calif. Shoe for resilient tires. No. 1,439,527; Dec. 19.
- Moore, George A., assignor to Detroit Range, Boiler & Steel Barrel Company, Detroit, Mich. Bung-flange blank. No. 1,427,616; Aug. 29.
- Moore, George D. (See McKoy, E. A., and Moore.) (Re-issue.)
- Moore, George T., Milwaukee, Wis., assignor of one-half to W. F. Hoffman, Chicago, Ill. Draft rigging. No. 1,403,617; Jan. 17.
- Moore, Giles S. and O.; said G. S. Moore assignor of his entire right to Automatic Sliding Trolley Company, Frankfort, Ind. Sleet cutter. No. 1,418,389; June 6.
- Moore, Glenn W., Upper Alton, Ill. Towline and fastener. No. 1,418,958; June 6.
- Moore, Granville. (See Buck, Homer A., assignor.)
- Moore, Harold J., Middletown, Conn., assignor to Geo. P. Ide & Company, Inc., Troy, N. Y. Soft turndown collar. No. 1,437,066; Nov. 28.
- Moore, Harold J., Middletown, Conn., assignor to Geo. P. Ide & Company, Inc., Troy, N. Y. Multiply interwoven fabric for collars and cuffs. No. 1,437,067; Nov. 28.
- Moore, Harold N., Kearney, Neb. Automatic train-pipe coupling. No. 1,408,378; Feb. 28.
- Moore, Harry. (See Moore, Raymond and H.)
- Moore, Harvey E., Peoria, Ill. Turntable. No. 1,408,379; Feb. 28.
- Moore, Henry C., Jr., et al. (See Taylor, Boone U., assignor.)
- Moore, Henry E., Brooklyn, N. Y. Steel tower. No. 1,403,051; Jan. 10.
- Moore, Herbert L. G., Hohokus, N. J. Egg holder and carrier. No. 1,429,610; Sept. 19.
- Moore, Hugh K. (See Brown, O. B., Moore, Parker, and Martinson.)
- Moore, James D., North Wilkesboro, N. C. Mechanical movement. No. 1,413,417; Apr. 18.
- Moore, Jemerson, Oklahoma, Okla. Fruit picker. No. 1,415,945; May 16.
- Moore, John A., Louisville, Ky., assignor to The Mangel Company, Louisville, Ky. Machine for notching blanks. No. 1,404,788; Jan. 31.
- Moore, John B., Latrobe, Pa. Making self-lubricating tools. No. 1,409,753; Mar. 14.
- Moore, John G., et al. (See Smith, Charles P., assignor.)
- Moore, John J., Batavia, N. Y. Vise. No. 1,423,774; July 25.
- Moore, John M., Laurel, Miss. Singletree. No. 1,424,255; Aug. 1.
- Moore, John R., Chicago, Ill. Tool holder. No. 1,423,245; July 18.
- Moore, John T., Atlanta, Ga. Railway switch. No. 1,423,005; July 18.
- Moore, John W., Detroit, Mich. Wall hanger for radiators. No. 1,410,110; Mar. 21.
- Moore, John W., Detroit, Mich. Radiator hanger. No. 1,425,891; Aug. 15.
- Moore, Ledlie D., Newtonville, Mass. Bucket for handling loose materials. No. 1,422,601; July 11.
- Moore, Levi M., Danville, Ill. Adjustable detachable bumper and carrying rack. No. 1,412,192; Apr. 11.
- Moore, Lewis, assignor to Moore Brothers Company, Joliet, Ill. Coal stove. No. 1,413,344; Apr. 18.
- Moore, Mark E., Jr., assignor to Moore Tool Company, Fairmont, Minn. Tappet-wrench set. No. 1,404,881; Jan. 31.
- Moore, Mary, Wilber, Nebr. Undergarment. No. 1,420,728; June 27.
- Moore, Merle M. (See Chappell, M. L., and Moore.)
- Moore, Millard H., Ludlow, Mass. Brush. No. 1,409,229; Mar. 14.
- Moore, Ninian R., Dubois, Pa. Automobile camp trailer. No. 1,435,251; Nov. 14.
- Moore, Otis A., Albuquerque, N. Mex. Agricultural machine. No. 1,404,882; Jan. 31.
- Moore, Otto. (See Moore, Giles S. and O.)
- Moore Pen Company. (See Liddell, John G., assignor.)
- Moore, Philip W., Hubbard Woods, assignor to The B & M Company, Chicago, Ill. Rail anchor. No. 1,433,639; Oct. 31.
- Moore, Ralph H., Aurora, Nebr. Steering device. No. 1,436,773; Nov. 28.
- Moore, Raymond, Bradford, and H. Moore, Hippaholme, England. Cleansing compound. No. 1,426,589; Aug. 22.
- Moore, Raymond G., assignor to The Bassick Company, Bridgeport, Conn. Latch for doors. No. 1,411,059; Mar. 28.
- Moore, Raymond H. (See Moore, Edward J. and R. H.)
- Moore, Raymond H., assignor to The W. W. Sly Manufacturing Company, Cleveland, Ohio. Fluid drier. No. 1,402,784; Jan. 10.
- Moore, Richard A., Brookings, Oreg. Combination tool. No. 1,421,287; June 27.
- Moore, Robert A., Cleveland, Ohio. Photographic apparatus. No. 1,415,042; May 9.
- Moore, Roswell A., Waterbury, Conn., assignor to George Frost Company, Boston, Mass. Garter. No. 1,406,995; Feb. 21.
- Moore, Roy, et al. (See Werts, William D., assignor.)
- Moore, Roy J., et al. (See Walter, William L., assignor.)
- Moore, Samuel, Scunthorpe, England. Gas generator. No. 1,418,158; May 30.
- Moore Tool Company. (See Moore, Mark E., Jr., assignor.)
- Moore, William A. (See Milliken, George, assignor.)
- Moore, William B., Chicago, Ill. Gas generator. No. 1,402,785; Jan. 10.
- Moore, William E., Pittsburgh, Pa. Car-door-operating device. No. 1,405,315; Jan. 31.
- Moore, William E., Beaver Falls, Pa. Furnace-charging device. No. 1,430,397; Sept. 26.
- Moore, William E., Chicago, Ill., assignor, by mesne assignments, to International Earth-Boring Machine Corporation. Earth-boring machine. No. 1,409,394; Mar. 14.
- Moore, William E., Milwaukee, Wis., assignor to R. D. Nuttall Company. Gear for railway motors. No. 1,417,937; May 30.
- Moore, William H., Dorris, Calif. Snap hook. No. 1,407,797; Feb. 28.
- Moore, William W., Spokane, Wash. Pneumatic tire. No. 1,415,604; May 9.
- Moore, Young, trustee. (See Schwimmer, Henry W., assignor.)
- Moorehead, John S., Langruth, Manitoba, Canada. No. 1,431,977; Oct. 17.
- Moorthouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. No. 1,431,480; Oct. 10.
- Moorthouse, Thomas E., Hawthorn, Victoria, Australia. Camera applicable to aerial photography. No. 1,420,440; June 20.
- Moorman, Charles C., Ducor, Calif. Pump. No. 1,433,401; Oct. 24.
- Moors Automatic Shade Fixtures Company. (See Moors, Walter C., assignor.)
- Moors, George F., assignor to Recip-Roto Engine Company, St. Louis, Mo. Rotary pump and engine. No. 1,408,380; Feb. 28.
- Moors, George F., assignor to Recip-Roto Engine Company, St. Louis, Mo. Rotary pump and engine. No. 1,408,381; Feb. 28.
- Moors, Walter C., Owensboro, Ky. Shade-roller stop. No. 1,403,340; Jan. 10.
- Moors, Walter C., assignor to Moors Automatic Shade Fixtures Company, Owensboro, Ky. Shade-roller safety catch. No. 1,411,865; Apr. 4.
- Mora, Bernhard. (See Schulthes, C., and Mora.)
- Mora, Bernhard, Lubeck, Germany. Code-sign translator. No. 1,433,144; Oct. 24.
- Mora, John F. (See Stranahan, James F., assignor.)

- Moraitis, Charalabos, Galveston, Tex. Sailboat. No. 1,429,156; Sept. 12.
- Moran, Edward J., Chicago, Ill. Punctureproof tire. No. 1,416,049; May 16.
- Moran, Frank J., New Britain, assignor to The Mosel Manufacturing Company, Kensington, Conn. Chuck sleeve for bit braces, etc., and manufacturing the same. No. 1,413,926; Apr. 25.
- Moran, Frank J., New Britain, and W. A. Peck, New Haven, assignors to The Simpson-Peck Mfg. Co., New Haven, Conn. Pliers. No. 1,420,729; June 27.
- Moran, Frank P., Cincinnati, Ohio. Valve. No. 1,402,082; Jan. 3.
- Moran, Robert G., Kansas City, Mo. Auxiliary accelerator pedal. No. 1,431,410; Oct. 10.
- Moran, William F., Frederick, Md. Danger signal. No. 1,423,727; July 25.
- Moran, William F., assignor to V. B. M. Company, Chicago, Ill. Washing-machine-driving mechanism. No. 1,425,209; Aug. 8.
- Morand Cushion Wheel Company. (See Morand, Joseph J., assignor.)
- Morand, Joseph J., assignor to Morand Cushion Wheel Co., Chicago, Ill. Cushion-wheel construction. No. 1,416,373; May 16.
- Morand, Joseph J., assignor to Morand Cushion Wheel Co., Chicago, Ill. Cushion-wheel construction. No. 1,438,658; Dec. 12.
- Moras, Ferdinand, Sommerfeld, Germany. Double-knee siphon. No. 1,421,531; July 4.
- Morava, Wensel, Chicago, Ill. Cotton-crop separator. No. 1,409,307; Mar. 14.
- Morava, Wensel, Chicago, Ill. Cotton-crop cleaner. No. 1,409,308; Mar. 14.
- Morawski, Jan, Buenos Aires, Argentina. Refrigerating plant. No. 1,416,492; May 16.
- Mörch, Kristoffer, Christiania, Norway. Continuous process of decomposing waste sulphite liquor. No. 1,415,843; May 9.
- Morck, Arne. (See Nordstrom, O., and Morck.)
- Mörck, Knut H., assignor, by mesne assignments, to Ericsson Manufacturing Company, Buffalo, N. Y. Impulse starter. No. 1,407,077; Feb. 21.
- Mörck, Knut H., assignor, by mesne assignments, to Ericsson Manufacturing Company, Buffalo, N. Y. Electrical ignition machine. No. 1,412,792; Apr. 11.
- Mordan, S., and Company. (See Bedford, Percy L., assignor.)
- Mordey, William M., Westminster, England. Heat treatment of articles of iron and steel and alloys thereof. No. 1,412,484; Apr. 11.
- Mordica, James F., Philadelphia, Pa. Life-saving suit. No. 1,424,174; Aug. 1.
- More, George, assignor to More Handy Truck Corporation, Brooklyn, N. Y. Portage device. No. 1,428,180; Sept. 5.
- More, Glenn, assignor to Blackstone Manufacturing Company, Jamestown, N. Y. Agitator. No. 1,412,255; Apr. 11.
- More Handy Truck Corporation. (See More, George, assignor.)
- Moreau, Joseph, assignor to P. N. Nelson, Chicago, Ill. Soldering. No. 1,426,311; Aug. 15.
- Moreau, Marcel Eli, San Francisco, Calif. Solar heating device. No. 1,424,932; Aug. 8.
- Moreau, Ovide D., Manville, assignor of one-half to J. C. Mailloux, Woonsocket, R. I. Loom heddle frame. No. 1,435,615; Nov. 14.
- Moree, Kinsel E. (See Hendrickson, R. O., and Moree.)
- Morehart, Forrest D., Milwaukee, Wis., assignor to Aldon Engineering Company, Chicago, Ill. Illuminated track diagram device. No. 1,402,639; Jan. 3.
- Morehouse, Gardner E., Moline, Ill., assignor to Toro Manufacturing Company, Minneapolis, Minn. Lawn mower. No. 1,427,617; Aug. 29.
- Morehouse, Lyman F., Montclair, N. J., assignor to American Telephone and Telegraph Company. Ciphering device. No. 1,415,106; May 9.
- Morehouse, Ralph J. (See Westen, T., and Morehouse.)
- Morel, Félix, and L. Tuloup, Paris, France. Filtering apparatus. No. 1,431,411; Oct. 10.
- Moreland, Jesse I., Chillicothe, Tex. Ink-bottle-supporting device. No. 1,439,255; Dec. 19.
- Moreland, Joseph F., Lexington, Tex. Cotton chopper. No. 1,413,760; Apr. 25.
- Morelli, William, assignor of one-half to P. J. Walsh, San Francisco, Calif. Thermostatic indicator. No. 1,406,476; Feb. 14.
- Morlock, Byron, Camden, N. J. Bean sheller. No. 1,419,072; June 6.
- Moren, Frank V., West Springfield, Mass. Tailor's try-on clasp. No. 1,419,165; June 13.
- Moren, John A., Webster, Wis. Telephone attachment for motor vehicles. No. 1,416,116; May 16.
- Morenus, Richard C., Laporte, Ind. Lighting device for player pianos. No. 1,415,041; May 9.
- Moreton, Henry H., Venice, Calif. Electrical heater. No. 1,416,963; May 23.
- Moreton, Henry H., Venice, Calif. Electrical heater. No. 1,416,964; May 23.
- Moreton, Henry H., Venice, Calif. Electrical heater. No. 1,416,965; May 23.
- Morey, Chester T., Providence, R. I. Apparatus for sorting machine elements. No. 1,424,370; Aug. 1.
- Morey, Worthie W., Columbus, Ohio. Ventilator. No. 1,417,194; May 23.
- Morfoot, Charles E., Nevada, Iowa. Collapsible table and case. No. 1,420,126; June 20.
- Morford, Isaac N., Atlanta, Ill. Wire-fence machine. No. 1,432,719; Oct. 17.
- Morgal, John F., Indianapolis, Ind. Piston ring. No. 1,406,475; Feb. 14.
- Morgan, Albert E., assignor to Jinks and Morgan Proprietary Limited, North Melbourne, Victoria, Australia. Lock. No. 1,431,481; Oct. 10.
- Morgan, Bert, Sparta, Mich. Shoe-shining outfit. No. 1,405,059; Jan. 31.
- Morgan, Chaillie E., Rockville, Ind. Can opener. No. 1,415,676; May 9.
- Morgan, Charles B., Cleveland, Ohio. Garbage receptacle. No. 1,408,957; Mar. 7.
- Morgan, Charles W. (See Parsons, L. W., Morgan, and Hussey.)
- Morgan Construction Company. (See Carroll, Elbert H., assignor.)
- Morgan Construction Company. (See George, Jerome R., assignor.)
- Morgan Construction Company. (See Isley, George H., assignor.)
- Morgan Construction Company. (See Lummis, Charles W., assignor.)
- Morgan Crucible Company Limited, The. (See Speirs, Charles W., assignor.)
- Morgan, Donald C., assignor to American Sanitary Lock Co., Indianapolis, Ind. Coin-controlled lock. No. 1,418,091; May 30.
- Morgan, Edmund C., Morgan Park, Ill. Mining machine. No. 1,424,113; July 25.
- Morgan, Edmund C., Morgan Park, Ill. Mining machine. No. 1,424,114; July 25.
- Morgan, Edmund C., New York, N. Y. Mining and loading machine. No. 1,427,118; Aug. 29.
- Morgan, Edmund C., New York, N. Y. Mining and loading machine. No. 1,427,119; Aug. 29.
- Morgan, Edmund C., New York, N. Y. Mining and loading machine. No. 1,430,669; Oct. 3.
- Morgan, Edward, and C. D. Brown, Dayton, Ohio. Piston. No. 1,409,754; Mar. 14.
- Morgan, Elizabeth A., Hampshire, Ill. Corn drier. No. 1,404,632; Jan. 24.
- Morgan Engineering Company, The. (See Morgan, William H., assignor.)
- Morgan Engineering Company, The. (See Taylor, Clarence L., assignor.)
- Morgan, Frank L., Washington, D. C., assignor to J. T. Underwood, Brooklyn, N. Y. Combined typewriting and computing machine. No. 1,433,737; Oct. 31.
- Morgan, Fred A., Selma, Calif. Handle. No. 1,429,446; Sept. 19.
- Morgan, Guy W., et al. (See McLagan, William N., assignor.)
- Morgan, Harry B., St. Louis, Mo. Shock absorber. No. 1,423,006; July 18.
- Morgan, Henry W., and E. P. Holder, Greenville, S. C. Tight band pulley. No. 1,421,708; July 4.
- Morgan, Hubert W., Lakewood, Ohio. Manufacturing synthetic leather. No. 1,436,106; Nov. 21.
- Morgan, Hubert W., Lakewood, Ohio. Manufacturing synthetic colored leather. No. 1,436,107; Nov. 21.
- Morgan, John, Iron River, Mich. Lamp support. No. 1,406,751; Feb. 14.
- Morgan, John H., Eldorado, Okla. Blower. No. 1,416,229; May 16.
- Morgan, John H., Ozark, Ala. Linter flue. No. 1,431,021; Oct. 3.
- Morgan, John H., jr. (See Morgan, John H., sr., and J. H. jr.)
- Morgan, John H., sr., and J. H. jr., Racine, Wis. Food product. No. 1,430,670; Oct. 3.
- Morgan, Joseph B., Janesville, Wis. Whip lash. No. 1,413,485; Apr. 18.
- Morgan, Neil E., Hermon, assignor to Bob White Chemical Corporation, New York, N. Y. Insecticide. No. 1,405,856; Feb. 7.
- Morgan, Philip, Lindsay, Ontario, Canada. Phonograph-record holder. No. 1,409,392; Mar. 14.
- Morgan, Porter A., Okmulgee, Okla. Combination burner. No. 1,436,516; Nov. 21.
- Morgan, Porter S. (See Winter, A., and Morgan.)
- Morgan, Ralph L., Worcester, assignor, by mesne assignments, to Greenfield Tap and Die Corporation, Greenfield, Mass. Magnetic chuck and making the same. No. 1,414,622; May 2.
- Morgan, Robert F. (See Beiswinger, W. C., and Morgan.)
- Morgan, S., Smith Company. (See Gibbs, Eugene U., assignor.)
- Morgan, Saxton J., Albany, Wis. Magazine brace. No. 1,425,270; Aug. 8.
- Morgan, Thomas, Muncie, Ind. Friction clutch. No. 1,429,962; Sept. 26.
- Morgan, Thomas J. (See Swineford, J. L., and Morgan.)
- Morgan, William, Minneapolis, and C. J. Muckle, St. Paul, Minn., assignors, by mesne assignments, to Independent Milking Machine Company. Milking apparatus. No. 1,430,022; Sept. 26.
- Morgan, William A., Los Angeles, Calif. Electric flat-iron. No. 1,430,830; Oct. 3.

Alphabetical list of patentees—Continued.

- Morgan, William H., Alliance, Ohio. Method and apparatus for shaping hot-metal blanks. No. 1,414,660; May 2.
- Morgan, William H., Alliance, Ohio. Cast metal wheel. No. 1,414,661; May 2.
- Morgan, William H., Alliance, Ohio. Cast metal wheel. No. 1,414,662; May 2.
- Morgan, William H., Alliance, Ohio. Cast metal wheel. No. 1,414,663; May 2.
- Morgan, William H., assignor to The Morgan Engineering Company, Alliance, Ohio. Plant for the manufacture of machinery and other apparatus. No. 1,420,730; June 27.
- Morgan & Wright. (See Abbott, Adrian O., Jr., assignor.)
- Morgan & Wright. (See Brushwiler, R., and Otto, assignors.)
- Morgan & Wright. (See Coe, John P., assignor.)
- Morgan & Wright. (See Eger, Ernst, assignor.)
- Morgan & Wright. (See Finn, William, assignor.)
- Morgan & Wright. (See Galpin, G., and Baer, assignors.)
- Morgan & Wright. (See Gerard, Roy H., assignor.)
- Morgan & Wright. (See Kearns, W., and Connelly, assignors.)
- Morgan & Wright. (See Rose, Reed P., assignor.)
- Morgan & Wright. (See Van Buskirk, Robert N., assignor.)
- Morgenthau, Bernard, New York, N. Y. Lock. No. 1,410,828; Mar. 28.
- Morgenthau, Bernard, New York, N. Y. Lock. No. 1,410,829; Mar. 28.
- Morgenthau, Bernard, New York, N. Y. Lock. No. 1,424,136; July 25.
- Morgenthau, Bernard. (See Alexander, Arthur A., assignor.)
- Mori, Placido. (See Hood, R. M., and Goodnow, assignors.)
- Morian, Carlos C., Olean, N. Y. Candy machine. No. 1,425,998; Aug. 15.
- Moriarty, Daniel, Oakland, Calif. Tire casing. No. 1,422,290; July 11.
- Moriarty, Daniel, Oakland, Calif. Tire rim. No. 1,439,256; Dec. 19.
- Moriarty, William F., Chicago, Ill., assignor to Service Invention & Development Company. Coin-controlled mechanism. No. 1,419,581; June 13.
- Moricca, Fred. (See Moricca, Joseph and F.)
- Moricca, Joseph and F., Wellsville, N. Y. Snowplow. No. 1,432,352; Oct. 17.
- Morin, Edgar G., Jr., San Francisco, Calif. Combination gauge. No. 1,402,005; Jan. 3.
- Morin, Henri, St.-Denis, France, assignor to La Société Genty, Hough & Cie. (Société en nom Collectif et en commandite simple), Paris, France. Tanning leathers and skins. No. 1,404,633; Jan. 24.
- Morin, Honore, New Auburn, Me. Apparatus for re-lasting shoes. No. 1,429,157; Sept. 12.
- Morin, Philace, assignor to Morin Saw Gauge Mfg. Co., Seattle, Wash. Saw set. No. 1,416,374; May 16.
- Morin Saw Gauge Mfg. Co. (See Morin, Philace, assignor.)
- Moriandi, Charles, Nanterre-Paris, assignor to Société Anonyme des Brevets Peuffaillit, Lille, France. Disintegrating vegetable fibers for use in the textile and paper industries. No. 1,410,669; Mar. 21.
- Mork, Harry S. (See Esselen, G. J., Jr., and Mork.)
- Mork, Harry S., Brookline, and G. J. Esselen, Jr., Swampscott, assignors to A. D. Little, Inc., Cambridge, Mass. Making a combustible material. No. 1,416,493; May 16.
- Mork, Harry S., Brookline, and C. F. Coffin, Jr., Watertown, assignors to The Lustron Company, South Boston, Mass. Preparing cellulose-ester products. No. 1,421,288; June 27.
- Mork, Harry S., Brookline, and C. F. Coffin, Jr., Watertown, assignors to The Lustron Company, South Boston, Mass. Preparing cellulose-ester products. No. 1,421,289; June 27.
- Mork, Harry S., Brookline, and C. F. Coffin, Jr., Watertown, assignors to The Lustron Company, South Boston, Mass. Preparing cellulose-ester products. No. 1,421,290; June 27.
- Morkrum Company. (See Krum, Charles L. and H. L., assignors.)
- Morkrum Company. (See Krum, Howard L., assignor.)
- Morley, Vivian S., Tankerton, England. Advertising device. No. 1,430,314; Sept. 26.
- Morley, Vivian S., Tankerton, England. Advertising device. No. 1,430,315; Sept. 26.
- Morneau, Valère, Montreal, Quebec, Canada. Measuring instrument. No. 1,433,640; Oct. 31.
- Morner, Dora, Stevens Point, Wis. Sanitary belt. No. 1,423,353; July 18.
- Mornhineg, Lutha A. (See Simmons, Bowie G. and H. D., assignors.)
- Morningstar, J. P. (See Hink, William H., assignor.)
- Morrall, Samuel E. and W. W. Morrall, Ohio. Corn-husking device. No. 1,430,671; Oct. 3.
- Morrall, William W. (See Morrall, Samuel E. and W. W.)
- Morrell, Albert H. (See Wishart, W., and Morrell.)
- Morrell, Glenn A., assignor of one-half to C. W. Rodgers, Seattle, Wash. Fireplace damper. No. 1,422,465; July 11.
- Morrell, Isaac V., Elgin, Ill. Voice intensifier. No. 1,415,462; May 9.
- Morrell, Jacques C., New York, N. Y. Suspension and emulsion and making same. No. 1,440,355; Dec. 26.
- Morrell, Jacques C., New York, N. Y. Suspension and emulsion and making same. No. 1,440,356; Dec. 26.
- Morrill, Charles L. (See Freuler, H. F., and Morrill.)
- Morrill, Charles L. (See Shrods, George, assignor.)
- Morrill, Herbert B., Salem, Mass. Flow-control device. No. 1,419,640; June 13.
- Morrill, Hiram D., Northfield, Vt. Stone-working table. No. 1,406,477; Feb. 14.
- Morrill, Joseph B., St. Louis, Mo., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric-wave-ranging system. No. 1,406,996; Feb. 21.
- Morris, Alfred D., assignor to The Morris Piston Company, Philadelphia, Pa. Piston packing. No. 1,405,540; Feb. 7.
- Morris, Alfred D., assignor to The Morris Metallic Packing Co., Philadelphia, Pa. Metallic packing. No. 1,426,493; Aug. 22.
- Morris Automatic Scale Company, The. (See Herman, Carl R., assignor.)
- Morris Automatic Scale Company. (See Morris, Jolly L., assignor.)
- Morris, Callie E., Brooklyn, N. Y. Syringe. No. 1,404,780; Jan. 31.
- Morris, Charles E., assignor to C. W. Parker, Leavenworth, Kans. Rocking toy. No. 1,414,785; May 2.
- Morris, Charles F., Earlsville, Va. Plow. No. 1,429,365; Sept. 19.
- Morris, Douglas, Cleveland, Ohio. Coated nail. No. 1,428,247; Sept. 5.
- Morris, Edgar L., Charlotte, N. C. Safety driving mirror for automobiles. No. 1,416,966; May 23.
- Morris, Edmund, assignor to Wilmarth Show Case Co., Grand Rapids, Mich. Sectional furniture. No. 1,434,220; Oct. 31.
- Morris, Edward B., assignor of one-half to C. C. Burns, Oakland, Calif. Gear control for automobiles. No. 1,433,023; Oct. 24.
- Morris, Emil, Clinton, Iowa. Lamp deflector. No. 1,438,390; Dec. 12.
- Morris, Frank E. (See Sherman, C. H., and Morris.)
- Morris, Frank E., Philadelphia, Pa. Device for forming pastries and the like. No. 1,416,735; May 23.
- Morris, John O., Washington, D. C., assignor to Planters Stemming Company, New York, N. Y. Tobacco-stripping machine. No. 1,436,402; Nov. 21.
- Morris, Jolly L., Crafton, Pa. Automatic cut-off for scales. No. 1,437,260; Nov. 28.
- Morris, Jolly L., Crafton, assignor to Morris Automatic Scale Company, Pittsburgh, Pa. Agitating feeder. No. 1,413,345; Apr. 18.
- Morris, Jolly L., assignor to the Morris Automatic Scale Company, Crafton, Pa. Bag holder. No. 1,432,486; Oct. 17.
- Morris, Leigh W. (See Stoms, Marion W., assignor.)
- Morris, Leonard D., Chicago, Ill. Chime-striking action. No. 1,415,256; May 9.
- Morris Metallic Packing Co., The. (See Morris, Alfred D., assignor.)
- Morris Piston Company, The. (See Morris, Alfred D., assignor.)
- Morris, Pratt C., assignor to C. W. Cooper, Thomasville, Ga. Coil-box protector. No. 1,419,120; June 6.
- Morris, Ralph, Stanford, Mont. Key ring. No. 1,427,836; Sept. 5.
- Morris, Ray, Niagara Falls, N. Y. Windmill. No. 1,422,602; July 11.
- Morris, Richard, Gwinn, Mich. Bed. No. 1,427,618; Aug. 29.
- Morris, Robert W., Roslyn, N. Y., assignor to American Telephone and Telegraph Company. Switchboard call-signal apparatus and circuits. No. 1,427,695; Aug. 29.
- Morris, Thomas A., New York, N. Y. Radiator shutter. No. 1,411,866; Apr. 4.
- Morris, Thomas B., Cincinnati, Ohio. Forming gears and the like. No. 1,407,704; Feb. 28.
- Morris, Thomas C., Vredenburgh, Ala., assignor to E. C. Atkins and Company, Indianapolis, Ind. Feeding roller. No. 1,409,395; Mar. 14.
- Morris, Thomas F., Watford, N. Y. Snap-fastener-up-setting machine. No. 1,403,438; Jan. 10.
- Morris, William B. (See Houser, A. M., and Morris.)
- Morris, William L., Chicago, Ill. Centrifugal extractor. No. 1,435,545; Nov. 14.
- Morrish, Charles B. (See Weiss, C. R., and Morrish.)
- Morrison, Alfred J., assignor of one-half to W. E. Warneke, Denver, Colo. Machine for gluing box shoulders. No. 1,417,195; May 23.
- Morrison, Alfred J., Denver, Colo., assignor to Stokes and Smith Company, Summerdale, Philadelphia, Pa. Turning finger for box-covering machines. No. 1,424,316; Aug. 1.
- Morrison, Andrew, Penn Township, Allegheny County, assignor to Dilworth, Porter & Co., Inc., Pittsburgh, Pa. Tie plate. No. 1,426,312; Aug. 15.
- Morrison, Augustus H., Amsterdam, N. Y. Friction clutch. No. 1,403,052; Jan. 10.
- Morrison Bros. (See Wertz, Austin L., assignor.)
- Morrison, Charles N., assignor to The Dow Chemical Company, Midland, Mich. Furnace. No. 1,411,450; Apr. 4.
- Morrison, Hackley, Richmond, Va. Pipe-cutting machine. No. 1,411,122; Mar. 28.

- Morrison, J. L., Company, Inc., The. (See Allen, Howard G., assignor.)
- Morrison, James, assignor to The Trailmobile Company, Cincinnati, Ohio. Rolling kitchen. No. 1,422,603; July 11.
- Morrison, John Jr., Glens Falls, N. Y. Brush. No. 1,408,763; Mar. 7.
- Morrison, John A., Mansfield, Ohio. Lifting jack. No. 1,428,702; Sept. 12.
- Morrison, John E. (See Turner, W. G., and Morrison.)
- Morrison, John W., et al. (See Fogle, Earl C., assignor.)
- Morrison, Lewis J., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Channel-flap-laying machine. No. 1,415,946; May 16.
- Morrison, Max, Trenton, N. J., assignor to The American Steel and Wire Company of New Jersey. Stranding machine. No. 1,423,776; July 25.
- Morrison, Montford, Chicago, Ill. Hysteresis power transmitter and brake for phonograph motor mechanisms. No. 1,424,769; Aug. 8.
- Morrison, Nathaniel, Kaleida, Manitoba, Canada. Box opener. No. 1,409,964; Mar. 21.
- Morrison, Robert F., Battle Creek, Mich. Sash lock. No. 1,412,062; Apr. 11.
- Morrison, Rodger, Ponsonby, Auckland, New Zealand. Device for use in the attachment of slings to the hoisting means. No. 1,433,024; Oct. 24.
- Morrison, Silvius J., Chico, Calif. Apparatus for wiring frames. No. 1,407,435; Feb. 21.
- Morrison, William, Troy, N. Y. Brush. No. 1,438,711; Dec. 12.
- Morrison, William F., Vallejo, Calif. Concrete railway tie. No. 1,410,496; Mar. 21.
- Morris, Harry E., Enfield, assignor to Harvey Frost and Company Limited, London, England. Vulcanizing apparatus. No. 1,408,382; Feb. 28.
- Morrow, Alfred J., Seattle, Wash. Warehouse truck. No. 1,428,248; Sept. 5.
- Morrow, Alfred J., assignor to C. E. Farnsworth, Seattle, Wash. Trucking mechanism. No. 1,425,999; Aug. 15.
- Morrow, Jeremiah, Wellston, Ohio. Loading apparatus. No. 1,436,517; Nov. 21.
- Morrow, Samuel W., and J. Schlutter, assignors to The Reus Bros. Co., Baltimore, Md. Piston ring. No. 1,426,403; Aug. 22.
- Morrow, William H., New York, N. Y. Shoring device. No. 1,409,755; Mar. 14.
- Morse, Albert W., Forest Hills, N. Y. Strainer. No. 1,406,272; Feb. 14.
- Morse, Albert W., Forest Hills, N. Y. Nebulizer of liquid. No. 1,439,320; Dec. 19.
- Morse, Alfred B., assignor, by mesne assignments, to J. A. Morse, South Boston, Mass. Locking nut. No. 1,427,313; Aug. 29.
- Morse Chain Company, The. (See Morse, Frank L., assignor.)
- Morse, Charles F., assignor to The Invisible Process Co., Cleveland, Ohio. Invisible ink. No. 1,423,246; July 18.
- Morse, Charles H. B. (See Somers, W. F., and Morse.)
- Morse, Frank L., assignor to The Morse Chain Company, Ithaca, N. Y. Correcting the pitch in drive chains. No. 1,405,145; Jan. 31.
- Morse, Frank W., assignor of one-half to San Fernando Manufacturing Association, San Fernando, Calif. Furniture spring. No. 1,430,248; Sept. 26.
- Morse, Frank W., assignor of one-half to San Fernando Manufacturing Association, San Fernando, Calif. Seat-cushion spring. No. 1,430,249; Sept. 26.
- Morse, Frederick L., Framingham, Mass. Protecting shoe lasts. No. 1,421,980; July 4.
- Morse, Harry W., Stanford University, assignor to West End Chemical Company, Oakland, Calif. Concentrating brines. No. 1,435,727; Nov. 14.
- Morse Instrument Company. (See Morse, Robert V., assignor.)
- Morse, John M., Syracuse, N. Y. Spoke-nipple wrench. No. 1,402,434; Jan. 3.
- Morse, John M., Syracuse, N. Y. Muffler cut-out. No. 1,422,466; July 11.
- Morse, Julia A. (See Morse, Alfred B., assignor.)
- Morse, Lawrence H. (See Tracy, J. J., and Morse.)
- Morse, Louis F., Brooklyn, N. Y. Copying apparatus. No. 1,420,491; June 20.
- Morse, Robert B., assignor of one-fourth to T. H. Lindsey and one-fourth to W. C. Manson, Southport, N. C. Shock absorber and stabilizer. No. 1,405,541; Feb. 7.
- Morse, Robert V., Ithaca, N. Y. Automatic fuse setter for machine guns. No. 1,409,195; Mar. 14.
- Morse, Robert V., assignor to Morse Instrument Company, Inc., Ithaca, N. Y. Fuse setter controller for anti-aircraft guns. No. 1,413,927; Apr. 25.
- Morse, Walter N., San Francisco, and W. F. Williams, Oakland, Calif. Auxiliary latch. No. 1,436,892; Nov. 28.
- Morse, William F., assignor to S. R. Parry, Rochester, N. Y. Box-covering machine. No. 1,419,641; June 13.
- Morse, William F., assignor to S. R. Parry, Rochester, N. Y. Paper-cutting mechanism. No. 1,424,175; Aug. 1.
- Morse, Williston L., Pawnee City, Nebr. Incubator egg tray. No. 1,417,550; May 30.
- Morski, Thomas, Manistee, Mich., assignor to American Motor Patents Company. Combined spring and shock absorber. No. 1,408,124; Feb. 28.
- Mortensen, Frantz, Helsingfors, Finland. Arrangement for separators with hanging bowls. No. 1,403,341; Jan. 10.
- Mortensen, Niels L., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor controller. No. 1,403,342; Jan. 10.
- Mortensen, Niels L., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor controller. No. 1,412,568; Apr. 11.
- Morter, Earl W., Washington Court House, Ohio. Receptacle-transferring device. No. 1,420,936; June 27.
- Mortrud, Einar, Torderod, near Moss, Norway. Evaporating liquids. No. 1,418,197; May 30.
- Mortimer, Charles G. (See Kimball, W. D., and Mortimer.)
- Mortimer, Emmet E., Woodchopper Creek, Alaska. Trap. No. 1,418,603; June 6.
- Mortimer, Louis A., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,406,678; Feb. 14.
- Mortimer, Stockton H. (See Skinner, J. M., Mortimer, and Pearson.)
- Mortimore, John, Rochester, N. Y. Invalid's bed. No. 1,432,777; Oct. 24.
- Morton, Albert H., Lowell, Mass. Pick counter. No. 1,409,196; Mar. 14.
- Morton, Charles H., et al. (See Hinchman, Alva K., assignor.)
- Morton, David F., Boston, Mass. Combustion-controlling device for furnaces or the like. No. 1,402,083; Jan. 3.
- Morton, Frank M., Phoenix, Ala. Warp-dyeing beam. No. 1,404,634; Jan. 24.
- Morton, Fred S., Worcester, Mass. Sheet-metal wheel or roller. No. 1,429,158; Sept. 12.
- Morton, Frederic C., New Haven, Conn. Tire-making machine. No. 1,423,870; July 25.
- Morton, Frederic C., New Haven, assignor to The Ansonia O & C Co., Ansonia, Conn. Armband clasp. No. 1,433,837; Oct. 31.
- Morton, Frederick R., Fresno, Calif. Scraping or leveling machine. No. 1,416,494; May 16.
- Morton, Frederick R., Fresno, Calif. Road scraper. No. 1,419,642; June 13.
- Morton, Frederick R., Fresno, Calif. Grading machine. No. 1,435,413; Nov. 14.
- Morton, Harold A. (See Harrison, M. M., and Morton.)
- Morton, Harold A., Akron, Ohio. Rubber vulcanization and product thereof. No. 1,434,909; Nov. 7.
- Morton, Harold A., and M. M. Harrison, assignors to The Miller Rubber Company, Akron, Ohio. Vulcanizing rubber. No. 1,434,908; Nov. 7.
- Morton, Harold S., Minneapolis, Minn. Truck-body lifting and dumping apparatus. No. 1,411,801; Apr. 4.
- Morton, Harry D., assignor to Automatic Arc Welding Company, Detroit, Mich. Arc welding system and operating the same. (Reissue.) No. 15,313; Mar. 21.
- Morton, Harry U., assignor to Morton Manufacturing Company, Chicago, Ill. Extensible curtain roller. No. 1,435,414; Nov. 14.
- Morton, Ira O., et al. (See Morton, William C., assignor.)
- Morton Manufacturing Company. (See Morton, Harry U., assignor.)
- Morton, Samuel S., Harrisburg, Pa. Intermittent-grip device. No. 1,423,007; July 18.
- Morton, Samuel S., Harrisburg, Pa. Transmission mechanism. No. 1,423,008; July 18.
- Morton, Samuel S., Philadelphia, Pa. Automobile transmission. No. 1,427,541; Aug. 29.
- Morton, Samuel S., Philadelphia, Pa. Endless-tread chain. No. 1,427,542; Aug. 29.
- Morton, William B., Beatrice, Nebr. Display case. No. 1,430,921; Oct. 3.
- Morton, William C., assignor of one-third to J. P. Condon and one-third to I. O. Morton, Omaha, Nebr. Universal joint. No. 1,423,577; July 25.
- Morton, William C., assignor of one-third to I. O. Morton and one-third to J. P. Condon, Omaha, Nebr. Wheel clutch. No. 1,438,457; Dec. 12.
- Morton, William E., Chorlton-cum-Hardy, England. Side car for motor cycles. No. 1,437,115; Nov. 28.
- Mosánský, Joseph, Howell, Nebr. Toy. No. 1,439,634; Dec. 19.
- Mosblack, Albert, Steubenville, Ohio. Tile press. No. 1,438,776; Dec. 12.
- Moschos, John, Demopolis, Ala. Safety device for elevators. No. 1,424,665; Aug. 1.
- Mosel, Joseph H., Lakewood, assignor to The Lakewood Engineering Company, Cleveland, Ohio. Batch box. No. 1,408,383; Feb. 28.
- Mosel, Joseph H., assignor to The Lakewood Engineering Company, Lakewood, Ohio. Truck. No. 1,432,296; Oct. 17.
- Mosel Manufacturing Company, The. (See Moran, Frank J., assignor.)
- Mosler, Jennie S., Chicago, Ill., assignor to C. M. Carr Dental Manufacturing Company, Denver, Colo. Dental instrument. No. 1,402,525; Jan. 3.
- Moseley, Annie L., San Antonio, Tex. Portable automobile grocery store. No. 1,425,789; Aug. 15.
- Mosely, William P., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Safe-deposit lock. No. 1,432,720; Oct. 17.
- Moser, Morris B., Wells, Minn. Babbitting machine. No. 1,433,838; Oct. 31.

Alphabetical list of patentees—Continued.

- Moser, Theodor, Berlin-Grünwald, Germany. Appliance for throwing mortar for the plastering of walls and the like. No. 1,423,536; July 25.
- Moser, Wilhelm. (See Mayer, B., Moser, and Würbler.)
- Moser, Wilhelm, Cannstatt, Germany. Work stand. No. 1,436,893; Nov. 28.
- Moses, Emil, Minneapolis, Minn. Power jack for automobiles. No. 1,416,736; May 23.
- Moses, Lionel, Providence, R. I. Device for hammering silver. No. 1,409,230; Mar. 14.
- Moses, Max H., San Francisco, Calif. Tire pump. No. 1,425,126; Aug. 8.
- Moses, Max H., San Francisco, Calif. Motor vehicle bumper and fender. No. 1,425,127; Aug. 8.
- Mosher, Charles D., New York, N. Y. Duplex oil strainer and filter. No. 1,403,822; Mar. 7.
- Mosher, Charles D., New York, N. Y. Furnace. No. 1,410,708; Mar. 28.
- Mosher, Charles D., New York, N. Y. Strainer and filter alarm. No. 1,411,802; Apr. 4.
- Mosher, Charles D., New York, N. Y. Oil-burning apparatus. No. 1,420,208; June 20.
- Mosher, Charles D., New York, N. Y. Furnace. No. 1,420,441; June 20.
- Mosher, Charles D., New York, N. Y. Furnace attachment. No. 1,433,903; Oct. 31.
- Mosher, Charles D., New York, N. Y. Fuel-burning apparatus. No. 1,440,095; Dec. 26.
- Mosher, Clifford C., Lima, Ohio. Rubber masticator. No. 1,435,616; Nov. 14.
- Mosher, George W., Newport, Ky. Whirligig toy. No. 1,419,402; June 13.
- Mosher, Joseph, Chicago, Ill. Arch support. No. 1,420,492; June 20.
- Mosher, Joseph, Chicago, Ill. Renewable grip handle. No. 1,425,534; Aug. 15.
- Mosher, James P., St. Francis, and E. R. Campbell, Desloge, Mo., assignors to National Lead Company, New York, N. Y. Mine-loading machine. No. 1,416,050; May 16.
- Mosier, James P., St. Francois, assignor, by mesne assignments, of one-fourth to himself, one-eighth to E. R. Campbell, one-eighth to J. A. Green, Desloge, Mo., and one-half to National Lead Company, St. Louis, Mo. Rotary car dump. No. 1,424,510; Aug. 1.
- Mosier, Orla H. (See Hempy, George L., assignor.)
- Moske, Rudolf, San Francisco, Calif. Telescope-sight mounting. No. 1,428,655; Sept. 12.
- Moskowitz, Louis. (See Cohon, B. J., and Moskowitz.)
- Moskowitz, Morris, Montclair, N. J. Antichattering coupling or connection. No. 1,428,249; Sept. 5.
- Mosley, Frank E., Shettleston, Glasgow, Scotland. Apparatus for recording the durations of sounds and intervals of silence. No. 1,405,060; Jan. 31.
- Mosman, Ernest. (See Subers, L. A., and Mosman.)
- Mosmann, Reinhard, St. Gallen, Switzerland. Sound-reproducing machine. No. 1,438,712; Dec. 12.
- Moss, Benjamin L., and J. Schury, Detroit, Mich. Fuse plug. No. 1,437,905; Dec. 5.
- Moss, Benjamin L., and J. Schury, Detroit, Mich. Multiple-fuse plug. No. 1,437,906; Dec. 5.
- Moss, Charles M. (See Hanker, F. C., and Moss.)
- Moss, Dexter W., Hannibal, Mo. Bagging machine. No. 1,438,254; Dec. 12.
- Moss, Ernest, Christchurch, New Zealand. Implement-raising and depth-regulating mechanism. No. 1,406,273; Feb. 14.
- Moss, Sam J., Dennison, Ohio. Tire attachment. No. 1,419,885; June 13.
- Moss, Sanford A., Lynn, Mass., assignor to General Electric Company. Turbosupercharger for aeroplanes. No. 1,413,418; Apr. 18.
- Moss, Sanford A., Lynn, Mass., assignor to General Electric Company. Fuel-feeding system for internal-combustion engines. No. 1,413,419; Apr. 18.
- Moss, Sanford A., Lynn, Mass., assignor to General Electric Company. Supercharger for internal-combustion engines. No. 1,413,420; Apr. 18.
- Moss, Victor G., assignor to The Champion Register Company, Cleveland, Ohio. Fireproof accounting cabinet. No. 1,409,756; Mar. 14.
- Mossay, Paul A. H., London, England. Dynamo-electric machine. No. 1,405,616; Feb. 7.
- Mossberg, Frank Company. (See Tuttle, Walter L., assignor.)
- Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Beam and reel. No. 1,426,898; Aug. 22.
- Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Making beam heads. No. 1,428,970; Sept. 12.
- Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Beam head. No. 1,433,402; Oct. 24.
- Mossberg Pressed Steel Corporation. (See Mossberg, Frank, assignor.)
- Most, Lucifer J., New York, N. Y., assignor, by mesne assignments, to Pencil Products Corporation. Magazine pencil. (Reissue.) No. 15,260; Jan. 3.
- Most, Lucifer J., assignor, by mesne assignments, to Pencil Products Corporation, New York, N. Y. Pencil. No. 1,420,275; June 20.
- Mote, Sydney C., assignor of one-half to A. P. Crouch, London, England. Rubber-covered tank for containing inflammable liquids. No. 1,406,478; Feb. 14.
- Mothersill, Thomas B. (See Grikscheit, William, assignor.)
- Motor Hotels Company, The. (See Moe, Leonidas L., assignor.)
- Motor Ignition & Devices Company. (See Milton, John L., assignor.)
- Motor Macultivator Company, The. (See McCarthy, Charles S., Jr., assignor.)
- Motor Parts Corporation. (See Lowndes, Richard H., assignor.)
- Motor Petrol Company. (See de Florez, Louis, assignor.)
- Motor Products Corporation. (See Lee, Dwight B., assignor.)
- Motor Products Corporation. (See Pritchard, William S., assignor.)
- Motor Protector Manufacturing Company. (See Mooers, B. M., and Warner, assignors.)
- Motor Protector Manufacturing Company. (See Warner, Lawrence E., assignor.)
- Motor Radiator & Manufacturing Corporation, The. (See Hromadko, Joseph A., assignor.)
- Motor Recording Corporation. (See Chase, Carl C., assignor.)
- Motor Terminals Company. (See Fitch, Benjamin F., assignor.)
- Motor Terminals Company. (See Goldrick, Albert R., assignor.)
- Motschenbacher, August, Brooklyn, assignor to L. Plaut & Co., New York, N. Y. Shade-holding attachment. No. 1,407,876; Feb. 28.
- Mott, Abram C., Jr., assignor to Abram Cox Stove Company, Philadelphia, Pa. Hot-air furnace. No. 1,428,047; Sept. 5.
- Mott, Archibald T., Indianapolis, Ind., assignor to Superior Pulley Co., St. Louis, Mo. Pulley. No. 1,410,497; Mar. 21.
- Mott, Carl W. (See Johnston, E. A., and Mott.)
- Mott, Clarence J., (See Clifford, C. C., and Mott.)
- Mott, John, Daze, N. D. Cattle tie. No. 1,408,764; Mar. 7.
- Mott, John W., Springfield, Ill. Combination curtain and shade holder. No. 1,407,877; Feb. 28.
- Mott, Otis W., Jackson, Mich. Wheel. No. 1,403,439; Jan. 10.
- Mott, Samuel B., Noblesville, Ind. Furnace grate. No. 1,429,757; Sept. 19.
- Mott, Samuel D., Passaic, assignor of one-half to A. B. Sullivan, Allendale, N. J. Aeroplane. No. 1,407,293; Feb. 21.
- Mott, William P., Chicago, Ill. Spark-testing device for gasoline engines. No. 1,423,622; July 25.
- Mott, William R., Lakewood, Ohio, assignor to National Carbon Company, Inc. Composition for producing coatings on refractory articles and articles coated therewith. No. 1,425,603; Aug. 15.
- Mott, William R., Lakewood, Ohio, assignor to National Carbon Company, Inc. Projector electrode. No. 1,439,016; Dec. 19.
- Motte, Charles M., Paris, France. Propeller for vessels. No. 1,408,765; Mar. 7.
- Motter, George J., Washington, D. C. Changeable exhibitor. No. 1,412,885; Apr. 18.
- Mottier, Walter F., El Campo, Tex. Clutch and transmission mechanism. No. 1,409,396; Mar. 14.
- Mottier, Walter F., El Campo, Tex. Plunger for baling machines. No. 1,411,367; Apr. 4.
- Mottier, Walter F., El Campo, Tex. Cotton chopper. No. 1,425,035; Aug. 8.
- Mottura, Domenico, Duluth, assignor to Universal Remedies Company, St. Louis County, Minn. Liniment. No. 1,412,129; Apr. 11.
- Mouat, Thomas G., Britenahl, Ohio. Vapor heating system. No. 1,404,995; Jan. 31.
- Mould, William T. (See Whiteley, J. W., and Mould.)
- Moulin, Marcel A. (See Favre-Bulle, M. P., and Moulin.)
- Moulin, née Chenard, Bertha M. M., guardian. (See Favre-Bulle, M. P., and Moulin.)
- Moulton, Clifford E., Ravenna, Ohio. Unit cabinet construction. No. 1,425,892; Aug. 15.
- Moulton, Fred. (See Krutzberg, E., and Moulton.)
- Moulton, Harley C., Dorchester, assignor to Arbetter Felling Machine Company, Boston, Mass. Needle-shogging mechanism for sewing machines. No. 1,434,398; Nov. 7.
- Moulton, Harley C., Dorchester, assignor to Arbetter Felling Machine Company, Boston, Mass. Presser-foot mechanism for sewing machines. No. 1,434,399; Nov. 7.
- Moulton, Harley C., Dorchester, assignor to Arbetter Felling Machine Company, Boston, Mass. Seam for sewed articles. No. 1,434,400; Nov. 7.
- Moulton, Harley C., Dorchester, assignor to Arbetter Felling Machine Company, Boston, Mass. Worktable for sewing machines. No. 1,438,255; Dec. 12.
- Moulton, Lloyd W., Syracuse, N. Y. Polishing machine. No. 1,412,865; Apr. 11.
- Mt. Carmel Manufacturing Company, The. (See Somers, William A., assignor.)
- Mount, James J. (See Forster, Adam, assignor.)
- Mount, James J., Chicago, Ill. Dental flask. No. 1,417,938; May 30.

- Mount, John H., Brownwood, Tex. Perforator. No. 1,435,869; Nov. 14.
- Mount, Sidney C., Southall, England. Metal cask, drum, or the like. No. 1,423,673; July 25.
- Mount, William H. II., jr., Millington, N. J. Office-partition structure. No. 1,430,672; Oct. 3.
- Mouradian, Alexander B., Hamilton, Ontario, Canada. Aerial toy. No. 1,410,709; Mar. 28.
- Mourcu, Charles, Paris, France. Stabilization of aerolene and the resulting product. No. 1,436,047; Nov. 21.
- Mourne, John E., Denver, Colo., assignor to The Super-heater Company, New York, N. Y. Drifting device. No. 1,411,803; Apr. 4.
- Mourontzeff, Ilia, New York, and E. I. Landress, Brooklyn, N. Y., assignors to R. Vitolo, New York, N. Y. Sun-protecting lining for hats, caps, or the like. No. 1,405,061; Jan. 31.
- Mowbray, James W., Windsor, assignor to D. A. Stewart, Listowel, Ontario, Canada. Internal-combustion engine. No. 1,434,448; Nov. 7.
- Mowe, George H., assignor to one-half to G. R. Shriver, Watertown, N. Y. Heater. No. 1,435,900; Nov. 14.
- Mower, Edward B., assignor to The Futurist Company, Chicago, Ill. Undergarment. No. 1,422,604; July 11.
- Mower, Samuel. (See Cook, A. M., and Mower.)
- Mowers, Osmyrn, Houston, Tex. Swab. No. 1,412,213; Apr. 11.
- Mowry, Adelbert F., Worcester, Mass. Sprinkler head. No. 1,415,677; May 9.
- Mowry, Robert D., Chicago, Ill. Storage-battery cell. No. 1,415,257; May 9.
- Moxey, James A., Chicago, Ill., assignor to International Harvester Company. Wagon reach bar. No. 1,419,291; June 13.
- Moxham, Arthur J., New York, N. Y. Treating ore to produce pure iron. No. 1,420,127; June 20.
- Moxham, Arthur J., New York, N. Y. Extracting iron from its ores. No. 1,420,128; June 20.
- Moxham, Arthur J., New York, N. Y. Extracting iron from its ores. No. 1,420,129; June 20.
- Moxham, Arthur J., Great Neck, N. Y. Extracting metals from their ores. No. 1,420,130; June 20.
- Moxham, Walter, Chester, Nbr. Tool for turning shaft bearings. No. 1,430,831; Oct. 3.
- Moyer, Clarence F. (See Eliven, C. A., and Moyer.)
- Moyer, Clarence F. and K. J. Pueblo, Colo. Dirigible spotlight for automobiles. No. 1,413,761; Apr. 25.
- Moyer, David A., Birdsboro, Pa., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for shaping uppers over lasts. No. 1,429,291; Sept. 19.
- Moyer, Harry R., Thornburg, Pa. Sash. No. 1,425,535; Aug. 15.
- Moyer, Jonas J., Oakland, Calif. Mouth speculum. No. 1,420,493; June 20.
- Moyer, Karl J. (See Moyer, Clarence F. and K. J.)
- Moyer Manufacturing Company. (See Henning, Peter A., Jr., assignor.)
- Moyer, Paul S., assignor to The Arid Company, Chicago, Ill. Recriscip means. No. 1,425,790; Aug. 15.
- Moyer, Ralph E., Ludington, Mich. Wrench. No. 1,427,475; Dec. 5.
- Moyer, Russell, Williamstown, Pa. Gas humidifier. No. 1,405,062; Jan. 31.
- Moyer, Virgil W., assignor to The Midland Supply Company, Pawhuska, Okla. Fishing tool. No. 1,407,879.
- Moyerman, Samuel. (See Shelly, Samuel, assignor.)
- Moyle, James R., Jacksonville, Fla. Air-bag renewer. No. 1,409,397; Mar. 14.
- Moynihan, Owen, Cleveland, Ohio. Stripping reel. No. 1,415,678; May 9.
- Mrazek, John, Chicago, Ill. Making an ornamental finish. No. 1,436,666; Nov. 28.
- Muehka, Josef, Vienna, Austria. Production of gas mixtures of nitrogen and carbon dioxide that are deficient in oxygen. No. 1,406,479; Feb. 14.
- Muehka, Josef, Vienna, Austria. Production of protective gas. No. 1,413,285; Apr. 18.
- Muek, John, Milwaukee, Wis. Roller skate. No. 1,421,532; July 4.
- Muckenbinn, Charles H., Detroit, Mich. Mechanical batter. No. 1,423,009; July 18.
- Muckle, Clarence J. (See Morgan, W., and Muckle.)
- Mudd, Melbourne M., Toledo, Ohio, assignor to The Nobly Manufacturing Company. Can opener. No. 1,420,442; June 20.
- Mudge, Harry, assignor of one-third to J. C. Wilson and one-third to C. W. Wood, Fort Collins, Colo. Stock-feeding bin. No. 1,433,904; Oct. 31.
- Mudge & Company. (See Bender, George W., assignor.)
- Muehl, Martin, Salt Lake City, Utah. Puttying gun. No. 1,435,908; Nov. 14.
- Muehl, William F., Kansas City, Mo. Well-cleaning device. No. 1,402,786; Jan. 10.
- Muehl, William F., Kansas City, Mo. Cleaning oil wells. No. 1,410,827; Mar. 28.
- Muehl, William F., Kansas City, Mo. Wheel. No. 1,427,492; Aug. 29.
- Muehle, Herman, Cleveland, Ohio. Hatpin. No. 1,424,666; Aug. 1.
- Muehleisen, Gottlieb, Alma, Wis. Dam. No. 1,435,901; Nov. 14.
- Muehlhauser, Martin W., Cleveland, Ohio. Mechanical movement. No. 1,404,635; Jan. 24.
- Mueller, Adolph, trustee. (See Eichman, Arthur W., assignor.)
- Mueller, Adolph, trustee. (See Mueller, P., and Schuermann, assignors.)
- Mueller, Adolph, trustee. (See Mueller, Philip, assignor.)
- Mueller, Adolph, trustee. (See Mueller, Robert II., assignor.)
- Mueller, Adolph, trustee. (See Wilkins, James M., assignor.)
- Mueller, Arthur W., Cincinnati, Ohio. Canopy for automobiles. No. 1,424,421; Aug. 1.
- Mueller, August E., assignor to Universal Lug Company, Chicago, Ill. Detachable tread structure for vehicle wheels. No. 1,405,542; Feb. 7.
- Mueller, Charles R., Detroit, Mich. Roll chuck. No. 1,411,292; Apr. 4.
- Mueller, Edward H., Hartford, Wis. Automobile headlight. No. 1,416,375; May 16.
- Mueller, Emil M., assignor to C. P. Goerz American Optical Company, New York, N. Y. Shutter attachment for moving-picture cameras. No. 1,420,053; June 20.
- Mueller, Eugene L., Chicago, Ill. Electron tube. No. 1,437,607; Dec. 5.
- Mueller, Frank. (See Klink, E. J., and Mueller.)
- Mueller, Frederick, Irvington, N. J. Piston or compression ring. No. 1,414,747; May 2.
- Mueller, Frederick E., Mount Vernon, assignor to The Norma Company of America, Long Island City, N. Y. Retaining cage for multiple-row ball bearings. No. 1,427,225; Aug. 29.
- Mueller, Frederick F., and R. W. Harris, Washington, assignors to Standard Chemical Company, Pittsburgh, Pa. Making ferro-uranium. No. 1,433,403; Oct. 24.
- Mueller, Frederick F., and R. W. Harris, Washington, assignors to Standard Chemical Company, Pittsburgh, Pa. Electric furnace. No. 1,433,404; Oct. 24.
- Mueller, Frederick O. (See Harvey, C. L., and Mueller.)
- Mueller, George, Salt Lake City, Utah. Bread pan or oven tray. No. 1,408,019; Feb. 28.
- Mueller, George, Salt Lake City, Utah. Screen-bottom bread-baking tray. No. 1,408,766; Mar. 7.
- Mueller, George, Salt Lake City, Utah. Baker's oven. No. 1,413,867; Apr. 25.
- Mueller, George, Salt Lake City, Utah. Oven truck. No. 1,417,096; May 23.
- Mueller, George, Salt Lake City, Utah. Wheeled oven tray or carriage. No. 1,420,567; June 20.
- Mueller, George E., La Grange, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone exchange system. No. 1,408,125; Feb. 28.
- Mueller, Henry, Oakland, Calif. Window-screen hinge. No. 1,417,097; May 23.
- Mueller, Herman. (See Goedeke, Frederick W., assignor.)
- Mueller, John A., Cliftondale, Mass. Forge. No. 1,405,146; Jan. 31.
- Mueller, John A., Cliftondale, Mass. Fuel tank for torches and the like. No. 1,405,147; Jan. 31.
- Mueller, John A., Thiensville, Wis. Beet toppler and harvester. No. 1,411,804; Apr. 4.
- Mueller, John J., Ottawa, assignor to American Nickeloid Company, Peru, Ill. Electroplating apparatus and process. No. 1,437,003; Nov. 25.
- Mueller, L. J., Furnace Company. (See Buller, Charles M., assignor.)
- Mueller, Ludwig W., Waterloo, Iowa. Foldable trestle. No. 1,411,805; Apr. 4.
- Mueller, Max E., Youngstown, Ohio. Extracting cyanides from gases. No. 1,413,762; Apr. 25.
- Mueller, Max E., Youngstown, Ohio. Extracting hydrocyanic acid from gases. No. 1,413,763; Apr. 25.
- Mueller, Max M., Chicago, Ill., assignor of one-half to W. A. Scherff, Milwaukee, Wis. Automobile door latch. No. 1,435,971; Nov. 21.
- Mueller, Michael, Racine, Wis. Lifting jack. No. 1,432,408; Oct. 17.
- Mueller, Moritz L., Seattle, Wash., assignor to Northwest Blower Kiln Co., Drying kiln. No. 1,423,136; July 18.
- Mueller, Moritz L., assignor to Northwest Blower Kiln Co., Seattle, Wash. Method and apparatus for kiln drying. No. 1,437,385; Nov. 28.
- Mueller, Philip, Decatur, Ill. Adjustable escutcheon. No. 1,436,667; Nov. 28.
- Mueller, Philip, and A. C. Schuermann, Decatur, Ill. Adjustable escutcheon. No. 1,436,668; Nov. 28.
- Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Multiple cock. No. 1,403,264; Jan. 10.
- Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Capped stopcock. No. 1,406,060; Feb. 7.
- Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Fuller ball. No. 1,413,764; Apr. 25.
- Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Basin-cock wrench. No. 1,434,401; Nov. 7.
- Mueller, Philip, and A. C. Schuermann, assignors to A. Mueller, trustee, Decatur, Ill. Elastic ball valve. No. 1,403,263; Jan. 10.
- Mueller, Philip, and A. C. Schuermann, assignors to A. Mueller, trustee, Decatur, Ill. Nipple-expanding machine. No. 1,415,043; May 9.
- Mueller, Ralph S., Cleveland, Ohio, assignor to Benjamin Electric Manufacturing Company. Swivel plug. No. 1,411,293; Apr. 4.

Alphabetical list of patentees—Continued.

- Mueller, Robert H., assignor to A. Mueller, trustee, Decatur, Ill. Interchangeable regulator and relief valve. No. 1,410,970; Mar. 21.
- Mueller, Robert H., assignor to A. Mueller, trustee, Decatur, Ill. Pipe-end reamer. No. 1,410,971; Mar. 21.
- Mueller, Robert M., New York, N. Y. Air-trap gasoline strainer. No. 1,427,619; Aug. 29.
- Mueller, William A., et al. (See Henrie, George M., assignor.)
- Mueller, William A., Aberdeen, S. Dak. Drawbar coupling for tractors. No. 1,430,922; Oct. 3.
- Muellerweiss, Herman G., and B. E. Braun, Sebawaing, Mich. Oil-level indicator. No. 1,407,670; Feb. 21.
- Muench, Carl G., St. Paul, Minn. Indented fiber board. No. 1,417,522; May 30.
- Muench, Carl G., St. Paul, Minn. Concrete building construction. No. 1,417,553; May 30.
- Mudly, William E., Alliance, Ohio. Record-filing cabinet. No. 1,406,753; Feb. 13.
- Muhlenbruch, Otto R. G., Decatur, Ill. Gauntlet glove. No. 1,433,145; Oct. 24.
- Muir, Carrie A., Los Angeles, Calif. Combination electric and gas heater. No. 1,418,667; June 6.
- Muir, Herbert H., Western Springs, Ill. Reinforcing bar for cementitious materials. No. 1,416,117; May 16.
- Muir, Robert W., Hunter, N. Dak. Potato harvester. No. 1,440,232; Dec. 26.
- Muir, Wm., and Company. (See Melloy, J. H., and Owen, assignors.)
- Mukden, Fritz G., Cleveland, Ohio. Door catch. No. 1,425,271; Aug. 8.
- Mulac, Anthony A., Alliance, Ohio, assignor to The Buckeye Twist Drill Company. Expansion reamer. No. 1,428,391; Sept. 5.
- Mulcahey, Thomas F., Colfax, Ill. Attachment for motor-vehicle wheels. No. 1,426,208; Aug. 15.
- Muldner, Carl C., jr., Maplewood, Mo. Sand toy. No. 1,429,684; Sept. 19.
- Mulford, H. K., Company. (See Pittenger, Paul S., assignor.)
- Mulford, Louis K., Denver, Colo. Spring-roller side-curtain construction for automobiles. No. 1,438,458; Dec. 12.
- Mulford, Louis K., Denver, Colo. Windshield shade and utility map holder. No. 1,439,971; Dec. 26.
- Mulford, Rowland H. (See Swaney, C. E., and Mulford.)
- Mulherin, James A., assignor of one-third to H. D. Delkeskamp, St. Louis, Mo. Bath spray. No. 1,422,291; July 11.
- Mulholland Hatch Fastener Company, The. (See Watson, Frederick W., assignor.)
- Mulholland, John E. (See Kapatas, Gregore K., assignor.)
- Mulholland, Vergil, West Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Closure for molten-glass outlets. No. 1,421,810; July 4.
- Mull, Edward A., Wauson, Ohio. Metal-bending tool. No. 1,420,731; June 27.
- Mullancy, Benjamin F., assignor to J. Purdon, trustee, Boston, Mass. Garage construction. No. 1,420,494; June 20.
- Mullen, Charles A. (See McCulloch, Samuel, assignor.)
- Mullen, James J., et al. (See Carter, Lionel A., assignor.)
- Mullen, Thomas F., Stafford Springs, Conn. Watch fob. No. 1,417,852; May 30.
- Muller, Charles, Zurich, Switzerland. Drawing apparatus. No. 1,406,061; Feb. 7.
- Müller, Christian J., Prince Bay, N. Y. Replacement valve. No. 1,426,401; Aug. 22.
- Muner, Eduard F., Leipzig-Lindenau, Germany, assignor to E. A. Miller, Millvale Extension, Pa. Liquid-coating machine. No. 1,421,811; July 4.
- Müller, Eugen L., Berlin, Germany. Valveless oil pump. No. 1,408,709; Mar. 7.
- Müller, Friedrich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Metal-cutting machine. No. 1,429,611; Sept. 19.
- Müller, Friedrich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Mechanical movement. No. 1,429,612; Sept. 19.
- Müller, Friedrich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling cutters. No. 1,429,613; Sept. 19.
- Müller, Friedrich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Milling cutter for gears. No. 1,429,614; Sept. 19.
- Müller, Friedrich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Metal-cutting machine. No. 1,429,615; Sept. 19.
- Müller, Friedrich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Making milling cutters. No. 1,429,616; Sept. 19.
- Müller, Friedrich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Metal-cutting machine. No. 1,429,617; Sept. 19.
- Müller, Friedrich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Milling cutter. No. 1,429,618; Sept. 19.
- Müller, Gebhard, Munich, Germany. Urinal. No. 1,423,537; July 25.
- Müller, Gottfried, Sumiswald, Switzerland. Frame saw. No. 1,421,533; July 4.
- Müller, Gottwalt, Berlin-Weissensee, Germany. Worm drive for electric cars, especially mine locomotives. No. 1,421,534; July 4.
- Müller, Hans. (See Koch, H., and Müller.)
- Muller, Henry L. (See O'Grady, Frederick T., assignor.)
- Muller, Henry W., Ridgewood, N. Y., assignor to Muller Paper Goods Co., Inc. Blank-feeding machine. No. 1,413,181; Apr. 18.
- Müller, Hermann, St. Gallen, Switzerland. Fastener for doormats, carpets, rugs, and the like. No. 1,416,051; May 16.
- Muller, Hermann A., Powell River, British Columbia, Canada, and W. H. Muller, Seattle, Wash. Automobile mud shoe. No. 1,410,072; Mar. 21.
- Müller, Karl. (See Goldschmidt, H., and Müller.)
- Müller, Karl, Zurich, Switzerland. Drawing apparatus. No. 1,433,839; Oct. 31.
- Müller, Max, Hamburg, Germany. Floating dock. No. 1,413,603; Apr. 25.
- Muller Paper Goods Co., Inc. (See Muller, Henry W., assignor.)
- Müller, Philipp, Leipzig, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Apparatus for evaporating liquids. No. 1,406,997; Feb. 21.
- Müller, Wilhelm, Bernburg, Germany. Pipe cleaner. No. 1,419,886; June 13.
- Muller, William H. (See Muller, Hermann A. and W. H.)
- Müller, Woldemar, Hilo, Hawaii. Automobile headlight control. No. 1,410,587; Mar. 28.
- Muller-Thym, Bernard, Kansas City, Mo. Horizontal-wick burner. No. 1,428,112; Sept. 5.
- Mullern, Emil, North Arlington, N. J. Engine piston. No. 1,428,552; Sept. 12.
- Mulligan, Lowell H., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Producing granular aluminum fluoride. No. 1,403,183; Jan. 10.
- Mullin, Edwin M., Brooklyn, N. Y. Prize ring. No. 1,435,326; Nov. 14.
- Mullinix, Elmer E., Burlington, Kans. Overshoe retainer. No. 1,409,060; Mar. 7.
- Mullins, Ervin L., and W. R. Collier, Canton, Tex. Ointment. No. 1,411,577; Apr. 4.
- Mulock, William R., Winnipeg, Manitoba, Canada. Noise-reducing typewriter platen. No. 1,415,844; May 9.
- Multiple Storage Corporation. (See Sturges, Norman D., assignor.)
- Multiplex Tool Company. (See Anderson, Emil, assignor.)
- Multipost Company. (See Balkwill, Wesley J., assignor.)
- Multipost Company. (See Schweiger, W. F., and Balkwill, assignors.)
- Multipost Company. (See Schweiger, William F., assignor.)
- Multi-X Aircraft & Motors Company. (See Kluefer, Guy L., assignor.)
- Multiplex Filing Device Company. (See Harrah, George D., assignor.)
- Mulvey, Francis, et al. (See Yeagher, William A., jr., assignor.)
- Mulvey, Robert J., Chicago, Ill. Snap fastener. No. 1,402,006; Jan. 3.
- Mulvey, Robert J., Chicago, Ill. Snap fastener. No. 1,405,933; Feb. 7.
- Mulvey, Robert J., Chicago, Ill. Garment fastener. No. 1,411,060; Mar. 28.
- Mulvey, Robert J., Chicago, Ill. Garment fastener. No. 1,423,813; July 25.
- Mulvey, Robert J., Chicago, Ill. Garment fastener. No. 1,429,292; Sept. 19.
- Mulvihill, Daniel C., Hannibal, Mo. Mine car. No. 1,408,767; Mar. 7.
- Mulvihill, Daniel C., Hannibal, Mo. Sand gate. No. 1,409,398; Mar. 14.
- Mulvihill, Daniel C., Hannibal, Mo. Molding and flask part therefor. No. 1,414,702; May 2.
- Mumaw, Carl F., Scranton, Pa. Window cleaner. No. 1,420,937; June 27.
- Mumford, John, Chillicothe, Ohio. Wrench. No. 1,423,247; July 18.
- Mumford, Russell W., New York, N. Y., assignor, by mesne assignments, to Darco Corporation, Wilmington, Del. Decolorizing carbon and making same. No. 1,402,007; Jan. 3.
- Mumford, Thomas H., jr., Washington, D. C. Agitating apparatus for tanks. No. 1,413,022; Oct. 3.
- Mummert, Arden J., University City, Mo., assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo. Piston ring. No. 1,436,774; Nov. 28.
- Mummert, Ervin S., and J. O. Dixon, assignors to Mummert-Dixon Company, Hanover, Pa. Grinding machine. No. 1,413,928; Apr. 25.
- Mummert, Harvey C., Floral Park, N. Y. Retractable landing gear for aircraft. No. 1,435,139; Nov. 7.
- Mummert-Dixon Company. (See Mummert, E. S., and Dixon, assignors.)
- Mummery, Clyde W., Detroit, Mich. Fluid-fuel burner. No. 1,431,124; Oct. 3.
- Mummery, Clyde W., Detroit, Mich. Oil burner. No. 1,434,835; Nov. 7.
- Mummery, Clyde W., Detroit, Mich. Oil burner. No. 1,439,186; Dec. 19.
- Mummery, Edwin G., Detroit, Mich. Hydrocarbon burner. No. 1,410,214; Mar. 21.

- Mundale, Oscar M., Frost, Minn. Fuel-mixing device for internal-combustion engines. No. 1,420,732; June 27.
- Mundell, James B., Chicago, Ill. Inner tube. No. 1,438,256; Dec. 12.
- Mundell, Ralph R., Chicago, Ill. Multiple-cell inner tube. No. 1,438,257; Dec. 12.
- Münder, Wilhelm, Kisligen, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Method of and apparatus for producing hydrocarbon. No. 1,431,246; Oct. 10.
- Mundie, Louis M. (See Ringer, Luther, assignor.)
- Mundt, Emil W., Bernardsville, N. J. Spade. No. 1,423,775; July 25.
- Mundy, J. S., Hoisting Engine Co. (See Imhoff, August J., assignor.)
- Mundy, John C., Philadelphia, and H. T. Wilson, Tullytown, Pa. Excavating apparatus and drag bucket. No. 1,420,733; June 27.
- Munford, Edward S., et al. (See Mallard, H., and White, assignors.)
- Munger, William S., Lawndale, assignor of one-third to T. E. Lackyard, Los Angeles, Calif. Quick-acting vise. No. 1,411,578; Apr. 4.
- Mun-Keel Products Corporation. (See Kee, R. H., and Munson, assignors.)
- Mun-Keel Products Corporation. (See Kee, Robert H., assignor.)
- Munn, Hugo L., Wausau, Wis. Paper-roll bushing. No. 1,408,126; Feb. 28.
- Munnell, Alton F. (See La Tour, L., and Munnell.)
- Munning, A. P., & Co. (See Taylor, Floyd T., assignor.)
- Munro, Donald, Bootle, England. Elevating truck. No. 1,431,023; Oct. 3.
- Munro, Edward M., London, England. Socket or base for trolley poles for electrically-propelled vehicles. No. 1,420,131; June 20.
- Munro, James H., Pen Argyl, Pa. Valley roofing. No. 1,439,434; Dec. 19.
- Munro, James H., Pen Argyl, Pa. Shingled roofing. No. 1,439,435; Dec. 19.
- Munroe, Thomas L., Fall River, Mass. Trap catch. No. 1,416,737; May 23.
- Munsing, George D., New York, N. Y. Bottle capper. No. 1,408,127; Feb. 28.
- Munsingwear Corporation, The. (See Spilsbury, Beulah G., assignor.)
- Munson, Andrew, Kenyon, Minn. Swinging mail box. No. 1,411,867; Apr. 4.
- Munson, Howard B., St. Louis, Mo. Heel-clamping device for use in trimming unattached heels. No. 1,409,565; Mar. 14.
- Munson, Howard B., Chicago, Ill. Heel-blank-clamping device. No. 1,432,082; Oct. 17.
- Munson, Sweeney, Fowler, Colo. Vehicle wheel. No. 1,423,674; July 25.
- Munson, Whitney K. (See Kee, R. H., and Munson.)
- Munter, Charles, New York, N. Y. Belt-laced garment. No. 1,407,705; Feb. 28.
- Munters, Anders J. E., assignor to Startung Kompaniet Fåhræus, Hult & Co., Stockholm, Sweden. Starting device for internal-combustion engines. No. 1,440,311; Dec. 26.
- Munthe, Christoffer, Dusseldorf-Oberkassel, Germany. Grinding machine. No. 1,431,024; Oct. 3.
- Muntwyler, Ernst, Lucerne, Switzerland. Electric flat-iron. No. 1,402,245; Jan. 3.
- Muntwyler, Ernst, Lucerne, Switzerland. Electric heating apparatus. No. 1,402,246; Jan. 3.
- Muntz, William E., London, England. Spigot tap. No. 1,403,186; Jan. 10.
- Munzner, Charles, Chicago, Ill., assignor to American Stove Company, St. Louis, Mo. Door latch. No. 1,416,495; May 16.
- Murch, Charles S., Highland Park, Mich. Bottle protector. No. 1,424,667; Aug. 1.
- Murchie, James, Tupper Lake, N. Y. Welding table. No. 1,402,881; Jan. 10.
- Murchison, Kenneth M., New York, N. Y. Kitchenette. No. 1,438,713; Dec. 12.
- Murchison, Ray A., Kewanee, Ill. Guiding attachment for sewing machines. No. 1,403,094; Jan. 10.
- Murdo, Johanna, Minneapolis, Minn. Furnace grate. No. 1,413,286; Apr. 18.
- Murdoch, Henry D., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,437,068; Nov. 28.
- Murdoch, Kelso, assignor to The Murdoch Manufacturing and Supply Company, Cincinnati, Ohio. Regulator for antifreezing drinking fountains. No. 1,419,292; June 13.
- Murdoch Manufacturing and Supply Company, The. (See Murdoch, Kelso, assignor.)
- Murdoch, Van Quinton, Columbus, Ohio. Pencil grip. No. 1,421,535; July 4.
- Muren, Albert L., Burlington, Iowa. Battery construction. No. 1,416,738; May 23.
- Muret, Leon C., Nice, France. Agricultural tractor. No. 1,412,366; Apr. 11.
- Murk, Olof, Warren, Minn. Thistle eradicator. No. 1,429,293; Sept. 19.
- Murnane, Cornelius, Carlton, near Melbourne, Victoria, Australia. Farm tractor. No. 1,406,209; Feb. 14.
- Murnane, Daniel J., Jr. (See Lavigne, J. P., and Murnane.)
- Murphey, James A., Philadelphia, Pa. Automobile lock. No. 1,425,408; Aug. 8.
- Murphey, Pinkney H., Pueblo, Colo. Musical toy. No. 1,434,910; Nov. 7.
- Murphy, Charles L., Cincinnati, Ohio. Closure for containers. No. 1,420,734; June 27.
- Murphy Door Bed Company. (See Noack, William A., assignor.)
- Murphy, Edward E., Winchester, Mass. Method and means for burning carbonaceous fuel and water. No. 1,430,832; Oct. 3.
- Murphy, Edwin J., Schenectady, N. Y., assignor to General Electric Company. Electromagnetic clutch and reversing mechanism. No. 1,424,027; July 25.
- Murphy Engineering Co. (See Murphy, Peter W., assignor.)
- Murphy, Floyd M. (See Collier, D. C., and Murphy.)
- Murphy, Francis W., Philadelphia, Pa. Match box. No. 1,404,136; Jan. 17.
- Murphy, G. W. J., Company. (See Bourque, David, assignor.)
- Murphy, James J. (See Petersen, William A., assignor.)
- Murphy, John F., assignor of one-half to H. B. Wood, Worcester, Mass. Making wood base cutting dies. No. 1,402,526; Jan. 3.
- Murphy, John F., assignor of one-half to H. B. Wood, Worcester, Mass. Making metal-base cutting dies. No. 1,420,276; June 20.
- Murphy, John M., Shamokin, Pa. Pipe carrier for signaling systems. No. 1,402,435; Jan. 3.
- Murphy, Lloyd T., St. Marys, Ohio. Continuous extractor. No. 1,414,703; May 2.
- Murphy, Nicholas, Detroit, Mich. Curtain-window light. No. 1,424,511; Aug. 1.
- Murphy, P. H., Company. (See Murphy, Walter P., assignor.)
- Murphy, Patrick J. (See Armstrong, Abel, assignor.)
- Murphy, Peter, Newark, N. J. Furnace. No. 1,415,107; May 9.
- Murphy, Peter W., assignor to Murphy Engineering Co., Detroit, Mich. Valve mechanism. No. 1,402,946; Jan. 10.
- Murphy, Pierce J., Tecumseh, Nebr. Automatic safety signal device. No. 1,402,640; Jan. 3.
- Murphy, Robert N., Ottawa, Ontario, Canada. Heating system. No. 1,409,231; Mar. 14.
- Murphy, Robert N., Ottawa, Ontario, Canada. Humidifier for heaters. No. 1,419,582; June 13.
- Murphy, Sylvester R., Omaha, Nebr., and G. Dumas, Tie Siding, Wyo. Resilient tire. No. 1,434,719; Nov. 7.
- Murphy, Thomas F., New York, N. Y. Safety razor. No. 1,416,571; May 16.
- Murphy, Thomas H., Brooklyn, N. Y. Tar, sand, and asphalt mixer. No. 1,405,543; Feb. 7.
- Murphy, Thomas J., assignor of one-half to J. P. B. Duffy, Rochester, N. Y. Alternating-current motor. No. 1,419,749; June 13.
- Murphy, Walter B., and W. G. Dunning, Philadelphia, Pa., assignors to The Barrett Company. Sublimation of hydrocarbons. No. 1,409,897; Mar. 17.
- Murphy, Walter H., assignor of one-half to A. Kingston, St. Louis, Mo. Internal-combustion motor. No. 1,430,747; Oct. 3.
- Murphy, Walter M. (See Barrett, Thomas, assignor.)
- Murphy, Walter P. (See Bonsall, Charles D., assignor.)
- Murphy, Walter P. (See Burns, Thomas J., assignor.)
- Murphy, Walter P. (See Court, Clarence W., assignor.)
- Murphy, Walter P. (See Gilpin, Garth G., assignor.)
- Murphy, Walter P. (See Mayhew, Edward A., assignor.)
- Murphy, Walter P. (See Murray, George E., assignor.)
- Murphy, Walter P. (See Nicholas, Charles W., assignor.)
- Murphy, Walter P. (See Schlusser, Edgar B., assignor.)
- Murphy, Walter P. (See Sisson, V. E., and Feters, assignors.)
- Murphy, Walter P. (See Sisson, Vinton E., assignor.)
- Murphy, Walter P. (See Slick, Edwin E., assignor.)
- Murphy, Walter P. (See Truman, P. H., and Sisson, assignors.)
- Murphy, Walter P., New York, N. Y. Railway car. No. 1,404,469; Jan. 24.
- Murphy, Walter P., New York, N. Y. Dump car. No. 1,406,274; Feb. 14.
- Murphy, Walter P., New York, N. Y. Metal end structure for railway cars. No. 1,410,710; Mar. 28.
- Murphy, Walter P., Chicago, Ill. Centering device for car couplings. No. 1,415,463; May 9.
- Murphy, Walter P., New York, N. Y. Corrugated-sheet-metal car end. No. 1,422,881; July 18.
- Murphy, Walter P., New York, N. Y. Hopper-car door. No. 1,425,210; Aug. 8.
- Murphy, Walter P., New York, N. Y. End structure for railway cars. No. 1,432,886; Oct. 24.
- Murphy, Walter P., New York, N. Y. Cast-metal door for railway cars of the dumping type. No. 1,432,887; Oct. 24.
- Murphy, Walter P., New York, N. Y., assignor to P. H. Murphy Company, Parnassus, Pa. Car roof. No. 1,418,959; June 6.
- Murphy, William J., Philadelphia, Pa. Cooking utensil. No. 1,423,961; July 25.
- Murphy, William M., Glenside, Pa. Drink-mixing machine. No. 1,415,679; May 9.

Alphabetical list of patentees—Continued.

- Murray, Alexander, assignor to The Marietta Paint & Color Company, Marietta, Ohio. Stain composition. No. 1,422,292; July 11.
- Murray, Alexander W., Wellesley Hills, Mass. Dispensing can. No. 1,404,883; Jan. 31.
- Murray, Arthur II. (See Nelson, Emil A., assignor.)
- Murray, Athol F. B. (See Faye, William E., assignor.)
- Murray, Charles E., Chicago, Ill. Cloth-sponging machine. No. 1,431,412; Oct. 10.
- Murray, Charles F., Evanston, Ill. Automobile lock. No. 1,422,221; July 11.
- Murray Company, The. (See Hancock, William L., assignor.)
- Murray Company, The. (See Henry, Nelson B., assignor.)
- Murray, Ethelbert T. R., Hertfordshire, England. Lamp fitting. No. 1,407,473; Feb. 21.
- Murray, Ethelbert T. R., Hertfordshire, England. Illuminated sign. No. 1,440,096; Dec. 26.
- Murray, Forrest H., Cambridge, Mass. Arc-describing instrument. No. 1,427,493; Aug. 29.
- Murray, Frederick G., Cedar Rapids, Iowa. Milk can. No. 1,432,888; Oct. 24.
- Murray, George C., Chicago, Ill. Drawbar yoke. No. 1,418,450; June 6.
- Murray, George E., Battle Creek, Mich., assignor to W. P. Murphy, Chicago, Ill. Car-coupling release rigging. No. 1,422,293; July 11.
- Murray, Harry E., assignor to Murray-Dayton Corporation, Chicago, Ill. Spark intensifier for ignition plugs. No. 1,406,480; Feb. 14.
- Murray, Howard J., Brooklyn, N. Y. Thermoelectric transformer. No. 1,406,576; Feb. 14.
- Murray, Howard J., Brooklyn, N. Y. Automatic electric weight-measuring device for movable carriers. No. 1,407,078; Feb. 21.
- Murray, Howard J., Brooklyn, N. Y. Electro-mechanical power transforming, converting, and regenerative device. No. 1,409,061; Mar. 7.
- Murray, James H., Waterville, Me. Boiler-feed regulation. No. 1,435,546; Nov. 14.
- Murray, James M., Berlin, N. H., assignor to International Paper Company. Method of and apparatus for feeding pulp to the forming wires of paper-making machines. No. 1,421,981; July 4.
- Murray, John, London, England. Bookbinding machinery. No. 1,410,498; Mar. 21.
- Murray, John, London, England. Machine for flattening or straightening book covers or cases and the like. No. 1,424,583; Aug. 1.
- Murray, John A. (See Hanlon, George J., assignor.)
- Murray, John B., Wilmington, Ill. Rail joint. No. 1,413,765; Apr. 25.
- Murray, John B., Wilmington, Ill. Rail joint. No. 1,425,036; Aug. 8.
- Murray, John B., Wilmington, Ill. Rail joint. No. 1,433,840; Oct. 31.
- Murray, John B., Wilmington, Ill. Rail joint. No. 1,436,775; Nov. 28.
- Murray, John J., et al. (See Davis, Mortimer D., assignor.)
- Murray, John L., Masterton, New Zealand. Preparation for the treatment of dancing floors. No. 1,404,216; Jan. 24.
- Murray, John L., Audubon, N. J. Catamenial calendar. No. 1,406,210; Feb. 14.
- Murray, John P. (See Locke, E. B., and Murray.)
- Murray, Joseph B. (See Murray, Thomas E., Jr., and J. B.)
- Murray, Joseph B. and T. E., jr., Brooklyn, N. Y. Electric welding. No. 1,438,545; Dec. 12.
- Murray, Joseph H., and M. Wesson, Struthers, Ohio. Pitch burner. No. 1,439,116; Dec. 19.
- Murray, Lee, assignor to Durkee-Atwood Company, Minneapolis, Minn. Collapsible vulcanizing form. No. 1,404,217; Jan. 24.
- Murray, Madeline, San Francisco, Calif. Educational device. No. 1,405,063; Jan. 31.
- Murray, Milton, Williams Wharf, Va. Make-and-break ignition device. No. 1,423,137; July 18.
- Murray, Robert L., Bushey Heath, assignor to The Telephone Manufacturing Company, (1920) Limited, London, England. Telephone. No. 1,412,539; Apr. 11.
- Murray, Robert W., New Lexington, Ohio. Pump valve. No. 1,427,837; Sept. 5.
- Murray, Russell T., Laporte, and J. W. Tasker, Michigan City, Ind.; said Murray assignor to said Tasker. Fluting machine. No. 1,433,025; Oct. 24.
- Murray, Thomas E. (See Hoffer, Le Roy H., assignor.)
- Murray, Thomas E. (See Phelps, G. H., and Murray, assignors.)
- Murray, Thomas E. (See Rypinski, Albert B., assignor.) (Reissue.)
- Murray, Thomas E. (See Williams, Herbert H., assignor.)
- Murray, Thomas E., Brooklyn, N. Y. Vehicle wheel. No. 1,405,617; Feb. 7.
- Murray, Thomas E., Brooklyn, N. Y. Tubular molding core for pipes. No. 1,406,577; Feb. 14.
- Murray, Thomas E., Brooklyn, N. Y. Molding pipes of plastic material. No. 1,406,578; Feb. 14.
- Murray, Thomas E., jr. (See Murray, Joseph B. and T. E., jr.)
- Murray, Thomas E., jr. (See Phelps, G. H., and Murray.)
- Murray, Thomas E., jr., Brooklyn, N. Y. Electric welding. (Reissue.) No. 1,546,6; Oct. 10.
- Murray, Thomas E., jr., and J. B., Brooklyn, N. Y. Welding machine. No. 1,420,735; June 27.
- Murray, Thomas E., jr., and J. B., Brooklyn, N. Y. Fuse. No. 1,435,651; Nov. 14.
- Murray, William B., Danville, Ill., assignor to The Miller Train Control Corporation, Staunton, Va. Train-stopping apparatus. No. 1,431,025; Oct. 3.
- Murray-Dayton Corporation. (See Murray, Harry E., assignor.)
- Murrie, John L., Yonkers, N. Y. Cracking hydrocarbon oils distilled from crude petroleum, shale oil, and oil obtained from gilsonite or similar hydrocarbon-bearing materials and apparatus therefor. No. 1,435,652; Nov. 14.
- Murrill, Paul I., Plainfield, N. J., assignor to R. T. Vanderbilt Company, Inc., New York, N. Y. Accelerator for vulcanizing rubber. No. 1,436,894; Nov. 28.
- Murtha, Walter B., New York, N. Y. Safety device for paper-cutting machines and the like. No. 1,408,020; Feb. 28.
- Musebeck, George E., et al. (See Musebeck, George E., assignor.)
- Musebeck, George E., assignor of one-fourth to G. E. Musebeck, one-fourth to R. Jennings, one-fourth to C. W. Conaway and one-fourth to W. A. Wadsworth, Milwaukee, Wis. Vamp-forming machine. No. 1,440,166; Dec. 26.
- Musgrave, Bernard, Amersham Common, England. Boiler-flue baffle. No. 1,436,190; Nov. 21.
- Musgrave, Charles A., assignor of one-half to A. N. Hendry, Seattle, Wash. Attachment for milk-can-washing machines. No. 1,428,491; Sept. 5.
- Musgrave, Ellen S., Amersham Common, England. Means for use in poaching eggs. No. 1,417,679; May 30.
- Musgrave, Mark, Pittsburg, Kans. Valve-spring compressor. No. 1,424,512; Aug. 1.
- Mushall, Frank, Chicago, Ill. Screen frame. No. 1,427,620; Aug. 29.
- Musselman, Thomas H., Richmond, Tex. Folding table. No. 1,431,172; Oct. 10.
- Musser, Alfred J., assignor of one-third to J. S. Fisher, Indiana, and one-third to J. W. Klingensmith, Commodore, Pa. Block form. No. 1,402,084; Jan. 3.
- Mussleman, Frank, et al. (See Skinner, Frank R., assignor.)
- Musson, Edward T., Toronto, Ontario, Canada, assignor to Curtiss Aeroplane and Motor Corporation. Wing jig. No. 1,434,559; Nov. 7.
- Mustee, Lawrence F., Cleveland, Ohio, assignor to J. H. Miller. Machines for folding napkins, towels, and the like. No. 1,404,636; Jan. 24.
- Muster, Fritz and H. Rugsau, Switzerland. Transporting case. No. 1,411,976; Apr. 4.
- Muster, Hans. (See Muster, Fritz and H.)
- Mustonen, Peter, Superior, Wis. Oven. No. 1,417,404; May 23.
- Muszynski, John, Collinsville, Conn. Bicycle tire. No. 1,431,323; Oct. 10.
- Mutchmor, Arthur A., Oakland, Calif. Wrench. No. 1,344,911; Nov. 7.
- Muth, John, assignor to The E. H. Hotchkiss Company, Norwalk, Conn. Staple-driving machine. No. 1,408,823; Mar. 7.
- Muther, Lorenz. (See Althouse, Charles F., assignor.)
- Muther, Lorenz. (See Lautenschlager, William F., assignor.)
- Muther, Lorenz. (See Wales, Alfred B., assignor.)
- Mutscheller, Arthur, New York, N. Y., assignor to Wappler Electric Company, Inc. Pressure regulator for vacuum tubes. No. 1,409,460; Mar. 14.
- Mutscheller, Arthur, and K. Stoye, New York, N. Y., assignors to Wappler Electric Company. Radiographic plate changer. No. 1,426,899; Aug. 22.
- Mutual Furniture Manufacturing Company, The. (See Jacobs, James M. H., assignor.)
- Muzzy, William H., Chicago, Ill. Reserve-supply device for automobile fuel tanks. No. 1,407,798; Feb. 28.
- Muzzy, William H., Chicago, Ill. Gasoline reserve and control device for automobiles. No. 1,407,799; Feb. 28.
- Muzzy, William H., Chicago, Ill. Gasoline-reserve device. No. 1,407,800; Feb. 28.
- Muzzy, William H., Chicago, Ill. Automatic gas reserve for automobiles. No. 1,435,653; Nov. 14.
- Myatt, John W., assignor to Ledgers Limited, Tipton, England. Loose-leaf book or binder. No. 1,412,701; Apr. 11.
- Myatt, W. J., & Company Limited. (See Myatt, William J., assignor.)
- Myatt, William J., assignor to W. J. Myatt & Company Limited, Birmingham, England. Refillable pencil holder. No. 1,420,938; June 27.
- Myer, Bert, and J. Brown, Elkhart, Kans. Wrench. No. 1,421,536; July 4.
- Myer, Bert W., and J. Brown, Elkhart, Kans. Calf weaner. No. 1,428,794; Sept. 12.
- Myers Aircraft Corporation. (See Myers, George F., assignor.)
- Myers, Albert C., Niles, Calif. Track switch. No. 1,403,053; Jan. 10.
- Myers, Austin H., and P. A. Collins, Hanover, Pa. Washing apparatus. No. 1,410,711; Mar. 28.

- Myers, Bertha B., Los Angeles, Calif. Foldable sunshade frame. No. 1,407,040; Feb. 21.
- Myers, Carmon A., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Calendar construction. No. 1,406,062; Feb. 7.
- Myers, Charles E., assignor to M. J. Gill and F. J. Tillman, St. Louis, Mo. Stapling machine. No. 1,437,541; Dec. 5.
- Myers, Charles G., Philadelphia, Pa. Shaving brush. No. 1,419,887; June 13.
- Myers, Charles G., and O. C. Billman, Cleveland, Ohio. Light concentrator and projector. No. 1,433,292; Oct. 24.
- Myers, Charles S., Hazleton, Pa. Window screen. No. 1,417,763; May 30.
- Myers, Chester N., Valley Falls, assignor to H. A. Metz, New York, N. Y. Complex arseno-stibino compounds and making the same. No. 1,422,294; July 11.
- Myers, Clarence E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Connector. No. 1,432,029; Oct. 17.
- Myers, Claud M., Chicago, Ill. Cord support. No. 1,418,960; June 6.
- Myers, Clyde J., assignor to Swartz Electric Company, Indianapolis, Ind. Electric-current-changing means. No. 1,424,256; Aug. 1.
- Myers, D. D., et al. (See Kelley, Benjamin F., assignor.)
- Myers, Derbin S., Lakemore, Ohio, assignor, by mesne assignments, to S. Johnstone, Buffalo, N. Y. Tire. No. 1,402,947; Jan. 10.
- Myers, Edgar W., San Francisco, Calif. Method of and apparatus for amalgamating metals. No. 1,436,518; Nov. 21.
- Myers, Edward D., Shelby, Mich. Speedometer driving gear. No. 1,420,054; June 20.
- Myers, Ernest C. (See Schauer, L. A., and Myers.)
- Myers, Eugene O., Los Angeles, Calif. Tool for facing valve seats. No. 1,430,673; Oct. 3.
- Myers, Eugene V., East Orange, N. J. Brake. No. 1,410,111; Mar. 21.
- Myers, Eugene V., East Orange, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Making tire valves. No. 1,402,247; Jan. 3.
- Myers, F. E., and Brother Company, The. (See Myers, Philip A., assignor.)
- Myers, Florence B., Minneapolis, Minn. Building block. No. 1,410,588; Mar. 28.
- Myers, Frank A., Plainville, assignor to The Stanley Works, New Britain, Conn. Butt hinge. No. 1,409,461; Mar. 14.
- Myers, Frederick W., assignor of one-half to F. E. Pieper, Des Moines, Iowa. Antiskid and traction device. No. 1,425,037; Aug. 8.
- Myers, George F., New York, N. Y., assignor to Myers Aircraft Corporation. Aircraft. No. 1,419,507; June 13.
- Myers, George F., New York, N. Y., assignor to Myers Aircraft Corporation. Aircraft. No. 1,427,314; Aug. 29.
- Myers, George W., Philadelphia, Pa. Differential clutch gearing. No. 1,406,211; Feb. 14.
- Myers, Harry A., assignor to G. A. Reach, Philadelphia, Pa. Caddy bag. No. 1,429,524; Sept. 19.
- Myers, Harry H., Mobile, Ala. Milk-bottle protector. No. 1,411,868; Apr. 4.
- Myers, Harry S., Van, Pa. Winding drum. No. 1,411,061; Mar. 28.
- Myers, Harry S., Van, Pa. Arrangement of winch elements. No. 1,413,287; Apr. 18.
- Myers, Harry S., Van, Pa. Hoist brake. No. 1,413,421; Apr. 18.
- Myers, Harry S., Van, Pa. Gear shift. No. 1,414,038; Apr. 25.
- Myers, Harry S., Van, Pa. Extension clutch control. No. 1,418,265; May 30.
- Myers, Henry E., Bowman, N. D. Eye tester. No. 1,414,888; May 2.
- Myers, Henry G. (See Chandler, F. F., and Myers.)
- Myers, Hubert A., Company, The. (See Myers, Hubert A., assignor.)
- Myers, Hubert A., Company, The. (See Straw, Arceemes D., assignor.)
- Myers, Hubert A., assignor to The Hubert A. Myers Company, Toledo, Ohio. Method and apparatus for making glass. No. 1,413,766; Apr. 25.
- Myers, Hubert A., assignor to The Hubert A. Myers Company, Toledo, Ohio. Mold and treating same. No. 1,427,226; Aug. 20.
- Myers, Hubert A., assignor to Toledo Scale Company, Toledo, Ohio. Weight-indicating mechanism. No. 1,433,738; Oct. 31.
- Myers, Hubert A., assignor to The Hubert A. Myers Company, Toledo, Ohio. Gathering and discharging means for molten material. No. 1,437,855; Dec. 5.
- Myers, Lewis C. (See Hess, E. B., and Myers.)
- Myers, Lewis C., Brooklyn, assignor to Royal Typewriter Company, Inc., New York, N. Y. Sound-muffling pad for typewriting machines. No. 1,419,293; June 13.
- Myers, Loring W., Lubec, Me. Life raft. No. 1,434,402; Nov. 7.
- Myers, Louis, Detroit, Mich. Broaching machine. No. 1,437,856; Dec. 5.
- Myers, Morton E., assignor to The Precision Machine Co. Inc., New York, N. Y. Magazine for cinematographic projectors. No. 1,424,735; Aug. 1.
- Myers, Parke G., Cairo, Ohio, assignor to The Automatic Signal & Sign Company, Canton, Ohio. Signal device. No. 1,411,888; Apr. 4.
- Myers, Philip A., assignor to The F. E. Myers and Brother Company, Ashland, Ohio. Pump. No. 1,428,181; Sept. 5.
- Myers, Philip A., assignor to F. E. Myers & Brother, Ashland, Ohio. Power head. No. 1,437,988; Dec. 5.
- Myers, Ray G., Canal Fulton, Ohio. Door opener. No. 1,431,413; Oct. 10.
- Myers, Samuel F., Los Angeles, Calif. Fireplace damper. No. 1,407,351; Feb. 21.
- Myers, Shipley F., New York, N. Y. Changeable picture plate holder for cameras. No. 1,435,617; Nov. 14.
- Myers, Thomas L., Oakland, Calif., assignor to American Equipment Company, Chicago, Ill. Drier for use in the manufacture of articles from tender clay. No. 1,403,440; Jan. 10.
- Myers, Walter S., Darby, Pa., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Centrifugal casting machine. No. 1,428,048; Sept. 5.
- Myers, William L., Industry, Ill. Gate latch. No. 1,402,436; Jan. 3.
- Myers, William M., St. Joseph, Mo. Wrench. No. 1,406,408; Feb. 14.
- Myers, Wilson R., assignor of one-half to G. W. Burt, Portland, Oreg. Machine for mixing ice and salt and packing same in tubs. No. 1,404,135; Jan. 17.
- Myers, Wilson R., assignor of one-half to G. W. Burt, Portland, Oreg. Ice-delivering mechanism. No. 1,433,026; Oct. 24.
- Myers, Wilson R., assignor of one-half to G. W. Burt, Portland, Oreg. Ice and salt dispenser. No. 1,433,027; Oct. 24.
- Myerscough, John W. (See Urquhart, Henry H., assignor.)
- Mygind, Carl C., Kansas City, Mo. Amusement device. No. 1,411,451; Apr. 4.
- Myles, William, Bradwardine, Manitoba, Canada. Portable filling station. No. 1,403,911; Jan. 17.
- Mylius, Walter G., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. No. 1,433,739; Oct. 31.
- N. V. Lyn-Protectie. (See Höchstädter, Martin, assignor.)
- N. V. "Lyn-Protectie," Maatschappij tot Exploitatie Van Electro-Technische en Andere Oetrooten. (See Höchstädter, Martin, assignor.)
- Naamlooze Vennootschap De Eibergsche Stoomblekerij, Voorheen, G. J. Ten Cate En Zonen. (See Mohr, Robert, assignor.)
- Naamlooze Vennootschap Handel-Maatschappij Planeet. (See Kampmann, Gerhardt S. R., assignor.)
- Naamlooze Vennootschap Philips' Gloeilampenfabrieken. (See Holst, G., and Oosterhuis, assignors.)
- Nabers, Horace Z., Columbia, S. C. Ventilating transom. No. 1,403,054; Jan. 10.
- Nach, Philip, Weirton, W. Va. Massage comb. No. 1,436,776; Nov. 28.
- Nachenius, Henri A. J. de Bijl, Haarlem, Netherlands. Means for propelling vessels. No. 1,437,350; Nov. 28.
- Nacker, Owen M., assignor of one-half to A. P. Brush, Detroit, Mich. Vehicle axle. No. 1,430,833; Oct. 3.
- Nadell, Abraham M., Revere, Mass. Garment fastener. No. 1,425,038; Aug. 8.
- Nadolny, Teodor, Elizabeth, N. J. Lock. No. 1,411,123; Mar. 28.
- Naeser, Lindsay C., Johannesburg, Transvaal, South Africa. Vehicle springing. No. 1,414,147; Apr. 25.
- Naether, Ernest, Vevey, Switzerland. Electric-current controller. No. 1,418,726; June 6.
- Nagano, Yashuhiko, San Francisco, Calif. Can opener. No. 1,402,437; Jan. 3.
- Nagano, Yashuhiko, San Francisco, Calif. Camera. No. 1,433,967; Oct. 31.
- Nagel, Gustav J., New York, N. Y. Banded cigar, band label, and applying same. No. 1,405,148; Jan. 31.
- Nagel, Harry C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Rheostat. No. 1,433,740; Oct. 31.
- Nagel, Joseph S., White, S. Dak. Heater. No. 1,414,299; Apr. 25.
- Nagel, W. G., Electric Company, The. (See Decker, Hugh L., assignor.)
- Nagel, William. (See Easley, Thomas L., assignor.)
- Nagelvoort, Adriaan, assignor to The Nitrogen Corporation, Providence, R. I. Producing sodium bicarbonate and hydrogen. (Reissue.) No. 15,314; Mar. 21.
- Nagle, John J., Dublin, Ireland. Tobacco pipe. No. 1,434,261; Oct. 31.
- Nagle, Samuel C., London, England. Amusement device. No. 1,437,261; Nov. 28.
- Nagle, William, San Francisco, Calif. Friction transmission. No. 1,428,898; Sept. 12.
- Nagy, Berthold, Brooklyn, N. Y. Feeding attachment for crown-cork-making machines. No. 1,419,583; June 13.
- Nagy, Berthold and S., Brooklyn, N. Y. Attachment for feeding cupped articles. No. 1,414,786; May 2.
- Nagy, Charles K., Gainesville, N. Y. Stone-gathering machine. No. 1,406,063; Feb. 7.
- Nagy, Stephen. (See Nagy, Berthold and S.)
- Nahhas, Nemer F., et al. (See Fay, Joseph G., assignor.)
- Nahiray, Jacob. (See Kaiser, A. G., Nahirny, and Erxleben.)

Alphabetical list of patentees—Continued.

- Nailor, Bessie J., Mechanicsburg, Pa. Poultry holder. No. 1,438,659; Dec. 12.
- Nair, Louis, New Britain, Conn. Ball cock. No. 1,416,496; May 16.
- Naismith, Donald M., Pittsburgh, Pa. Boiler. No. 1,426,590; Aug. 22.
- Naismith, Donald M., assignor, by mesne assignments, of one-half to The McAleeman Corporation, Pittsburgh, Pa. Boiler. No. 1,432,721; Oct. 17.
- Najarian, Herand K., Salt Lake City, Utah. Screening machine and vibrating hammer therefor. No. 1,425,039; Aug. 8.
- Najarian, Jerry, Hartford, Conn. Insulating composition. No. 1,427,621; Aug. 29.
- Nakagawa, Waichi, Kitaku, Japan. Tube expander. No. 1,433,028; Oct. 24.
- Nakasora, Seiachiro, Niles, Calif. Direction indicator. No. 1,424,513; Aug. 1.
- Nakayama, Mizuhiko, and K. Adachi, Tokyo, Japan. Utilization of wastes or scraps of leather. No. 1,402,085; Jan. 3.
- Nalawajk, Mike. (See Kubicki, Andrew, assignor.)
- Nalle, Ernest, et al., trustees. (See Paul, Christian F., Jr., assignor.)
- Namura, Takeo, Walnut Grove, Calif. Tire pump. No. 1,430,250; Sept. 26.
- Nande Corporation. (See Everett, Edward A., assignor.)
- Nañez, Angel, New York, N. Y. Boat. No. 1,432,611; Oct. 17.
- Nanfaldt, Ernest F., New Haven, Conn. Making asbestos yarn. No. 1,437,438; Dec. 5.
- Nanni, Menotti, Chicago, Ill. Safe. No. 1,410,027; Mar. 21.
- Nanquette, Leon, Paris, France. Stove. No. 1,438,660; Dec. 12.
- Napier, D. & Son, Limited. (See Rowledge, Arthur J., assignor.)
- Napier, Frank L. (See Napier, Nelson W., assignor.)
- Napier, John S. (See Hoyt, S. T., and Napier.)
- Napier, Montague S., Cannes, France. Piston. No. 1,403,560; Jan. 17.
- Napier, Nelson W., Benton Harbor, assignor of one-half to F. L. Napier, St. Joseph, Mich. Distributing truck. No. 1,405,316; Jan. 31.
- Napolitan, Francis J., Jersey City, N. J., assignor to American Abrasive Metals Company. Plate for use in lining burglar-proof vaults and similar purposes. No. 1,422,295; July 11.
- Napper, Arthur J. E. (See Fournier, Frederick G. J., assignor.)
- Narans, Karl B., and G. R. Gampher, Eldorado, Ill. Combined lightning arrester and choke coil. No. 1,430,674; Oct. 3.
- Narizzano, John, Hampton Wick, England. Machine for covering wire with silk, cotton, or the like. No. 1,416,497; May 16.
- Naroda, Tony, Whiting, Ind. Shoe-lace-cutting device. No. 1,411,294; Apr. 4.
- Narrow, Anton H., Memphis, Tenn. Type bar or slug. No. 1,434,308; Oct. 31.
- Narrow, Anton H., Memphis, Tenn. Type-setting machine. No. 1,438,131; Dec. 5.
- Narsh, Joseph M., St. Louis, Mo. Feathering current wheel. No. 1,436,352; Nov. 21.
- Narsh, Joseph M., assignor, by mesne assignments, to Inland Products Company, St. Louis, Mo. Device for manufacture of piston rings. No. 1,439,017; Dec. 19.
- Nash, Charles A., Seattle, Wash. Injector for steam engines. No. 1,417,853; May 30.
- Nash, Charles J., assignor to Universal Draft Gear Attachment Co., Chicago, Ill. Draft arm for railway cars. No. 1,408,768; Mar. 7.
- Nash Engineering Company. (See Jennings, Irving C., assignor.)
- Nash, Harmon F., San Francisco, Calif. Marcel waver. No. 1,408,769; Mar. 7.
- Nash, Lewis, H., South Norwalk, Conn. Turbo displacement motor. No. 1,429,044; Sept. 12.
- Nash Receiver Sight Corporation. (See Gordon, Fred W., assignor.)
- Nash, Thomas, Kamloops, British Columbia, Canada. Disk sharpener. No. 1,420,568; June 20.
- Nashua Gummed & Coated Paper Company. (See Gautier, Trevor R., assignor.)
- Nashua Gummed & Coated Paper Company. (See Kimball, Wallace D., assignor.)
- Nashua Gummed & Coated Paper Company. (See Kimball, W. D., and Mortimer, assignors.)
- Nashua Gummed & Coated Paper Company. (See Kimball, W. D., and Rideout, assignors.)
- Nashua Machine Company. (See Sabin, John, assignor.)
- Nashua Manufacturing Company. (See Whipple, W., and Ekdahl.)
- Nasmith, John I. (See Ruckham, G. T., and Nasmith.)
- Nasmith, John W., Heaton Mersey, England. Combing machine. No. 1,402,369; Jan. 3.
- Nasmith, John W., Heaton Mersey, England. Combing machine. No. 1,402,370; Jan. 3.
- Nasmith, John W., Heaton Mersey, Manchester, England. Corner-staying metal-edging and like machine. No. 1,419,344; June 13.
- Nasmith, John W., Stockport, England. Combing machine. No. 1,416,739; May 23.
- Nasmith, John W., Manchester, England. Combing machine. No. 1,430,023; Sept. 26.
- Nass, Fred W., Chicago, Ill. Window screen. No. 1,438,777; Dec. 12.
- Nass, Robert. (See Friess, G., and Nass.)
- Nassoit, Harry B., New York, N. Y. Baby carriage. No. 1,413,422; Apr. 18.
- Nassoiy, Edward F., and G. E. Johnson, Sparks, Nev. Lantern attachment. No. 1,413,486; Apr. 18.
- Naterman, Henry D., Los Angeles, assignor of one-half to F. E. Winship, Riverside, Calif. Vehicle bumper. No. 1,409,462; Mar. 14.
- Nathan, Albert F., Plainfield, N. J. Miter-curve cutter. No. 1,406,481; Feb. 14.
- Nathan, Albert F., Plainfield, N. J. Diaphragm. No. 1,413,234; Apr. 18.
- Nathan Manufacturing Company. (See Kassander, Leopold, assignor.)
- Nathan, Walter S., Milwaukee, Wis. Lamp-position controller. No. 1,416,376; May 16.
- Nathanson, William. (See Emmer, M., and Nathanson.)
- National Acme Company, The. (See Fancher, C. J., and Johnson, assignors.)
- National Acme Company, The. (See Johnson, R. A., and Fancher, assignors.)
- National Airless Tire Company. (See Braden, Charles H., assignor.)
- National Airless Tire Company. (See Lane, Orlando A., assignor.)
- National Aniline & Chemical Company. (See Bates, Joseph S., assignor.)
- National Aniline & Chemical Company. (See Cunningham, Orin D., assignor.)
- National Aniline and Chemical Company. (See Cutrona, D. J., McCann, and Bissell, assignors.)
- National Aniline & Chemical Company, Inc. (See Lewis, Harry F., assignor.)
- National Aniline & Chemical Company. (See Ralph, W. M., and Flett, assignors.)
- National Aniline & Chemical Company, Inc. (See Slimm, John B., assignor.)
- National Atmospheric Power & Light Company. (See Chenoweth, William B., assignor.)
- National Biscuit Company. (See Beers, F., and Powell, assignors.)
- National Biscuit Company. (See Oakes, Earle T., assignor.)
- National Biscuit Company. (See Taylor, George A., assignor.)
- National Blank Book Company. (See Schade, John, assignor.)
- National Boiler Washing Co. of Illinois. (See Graham, Leslie B., assignor.)
- National Boiler Washing Company. (See Otis, S., and Wichman, assignors.)
- National Boiler Washing Company. (See Otis, Spencer, assignor.)
- National Brake & Electric Company. (See Aikman, Burton S., assignor.)
- National Brake & Electric Company. (See Beckwith, Raymond A., assignor.)
- National Bread Wrapping Machine Company. (See Sévigné, H. A., and Arnold, assignors.)
- National Carbon Company. (See Benedict, Bernard, assignor.)
- National Carbon Company. (See Benner, R. C., and French, assignors.)
- National Carbon Company. (See French, Harry F., assignor.)
- National Carbon Company. (See Hamister, Victor C., assignor.)
- National Carbon Company. (See Hazlett, Clarence W., assignor.)
- National Carbon Company. (See Hopple, William, assignor.)
- National Carbon Company. (See Huntley, Alton K., assignor.)
- National Carbon Company. (See Marshall, Edward L., assignor.)
- National Carbon Company. (See Mott, William R., assignor.)
- National Carbon Company. (See Reed, David C., assignor.)
- National Carbon Company. (See Wells, Alfred A., assignor.)
- National Carbon Company. (See Wilker, Arthur V., assignor.)
- National Carbon Company, Inc. (See Benner, R. C., and French, assignors.)
- National Carbon Company, Inc. (See Hamister, Victor C., assignor.)
- National Card Mounting Company, The. (See List, Frank X., assignor.)
- National Cash Register Company, The. (See Martin, Haakon A., assignor.)
- National Cash Register Company, The. (See McCoy, William D., assignor.)
- National Cash Register Company, The. (See Phillips, Frederick, assignor.)
- National Cash Register Company, The. (See Skerl, Francesco, assignor.)
- National Casket Company. (See Thumm, Christian G., assignor.)
- National Dump Car Co. (See Hart, Harry S., assignor.)

Alphabetical list of patentees—Continued.

- National Dump Car Company. (See Hosceit, William J., assignor.)
 National Enameling & Stamping Co. (See Kieckhefer, Alfred J., assignor.)
 National Equipment Company. (See Bausman, Alonzo L., assignor.)
 National Evaporator Corporation. (See Harris, Gordon D., assignor.)
 National Finance Company. (See Grey, Robert, assignor.)
 National Fireworks Manufacturing Company, The. (See Van Doren, John B., assignor.)
 National Gas Furnace Company. (See Walpole, Benjamin M., assignor.)
 National Gauge & Equipment Company. (See Axen, John L., assignor.)
 National Grain Savers Association. (See Bell, Lorenzo W., assignor.)
 National India Rubber Company. (See Huestis, Thomas B., assignor.)
 National Lead Company. (See Mosier, J. P., and Campwetter, Reinhold D., assignor.)
 National Lead Company et al. (See Mosier, James P., assignor.)
 National Lead Company. (See Tolman, Charles P., assignor.)
 National Lead Company of California. (See Gregory, Herbert, assignor.)
 National Lock Company. (See Johnson, D. E., and Madsen, assignors.)
 National Lock Washer Company. (See Cochran, Robert L., assignor.)
 National Machinery Co., The. (See Clouse, William L., assignor.)
 National Malleable Castings Company. (See Bazeley, Arthur J., assignor.)
 National Malleable Castings Company, The. (See Coffin, Walter E., assignor.)
 National Manufacturing Company, The. (See Schoen-Otto F., assignor.)
 National Mayonnaise Machine Company. (See Drucker, William J., assignor.)
 National Metal Products Company. (See Buckley, George H., assignor.)
 National Motor Car & Vehicle Corporation. (See Möller, bell, assignors.)
 National Motor Control Co. (See Heller, Jesse B., assignor.)
 National Oil Company. (See Ebsen, William A., assignor.)
 National Oil Purifier Company, The. (See Corwin, Frank E., assignor.)
 National Paper Can Company. (See Annen, James E., assignor.)
 National Pipe Bending Company, The. (See Wright, Willis M., assignor.)
 National Pneumatic Company. (See Forman, Paris R., assignor.)
 National Pneumatic Company. (See Gottschalk, Albert, assignor.)
 National Pneumatic Company. (See Keller, Ernest, assignor.)
 National Pneumatic Company. (See Laurent, Thomas, assignor.)
 National Pneumatic Company. (See Parsons, Raymond H., assignor.)
 National Pneumatic Company. (See Paul, Abram F., assignor.)
 National Pump Company. (See Hull, Nathaniel D., assignor.)
 National Radio Company. (See Golden, Alphonsus L., assignor.)
 National Retarder Company. (See Gallagher, Alfred H., assignor.)
 National Retarder Company. (See Stagner, Bert A., assignor.)
 National Safety Appliance Company, The. (See Folker, Howard S., assignor.)
 National Safety Appliance Company. (See Levin, W. S., and Wiet, assignors.)
 National Safety Churn Company, The. (See Hubble, Alfred G., assignor.)
 National Safety Device Company. (See Woodring, Alberto I., assignor.)
 National Safety Window Device Company. (See Minnis, George F., assignor.)
 National Sales Machine Company. (See Reith, George C., assignor.)
 National Seal Company. (See Smith, Arthur D., assignor.)
 National Specialty Manufacturing Company. (See Bussinger, William J., assignor.)
 National Spring & Wire Company. (See King, F. B., and Stevens, assignors.)
 National Supply Company, The. (See Wright, Clyde S., assignor.)
 National Tube Company. (See Bark, William, assignor.)
 National Tube Company. (See Beattie, Thomas W. C., assignor.)
 National Tube Company. (See Bullard, Edward P., jr., assignor.)
 National Tube Company. (See Foll, Charles, assignor.)
 National Tube Company. (See McNiff, Gilbert P., assignor.)
 National Tube Company. (See Pinkney, David H., assignor.)
 National Tube Company. (See Rabold, George, Sr., assignor.)
 National Tube Company. (See Rosenkranz, Max, assignor.)
 National Wood Renovating Company. (See Haynes, William J., Jr., assignor.)
 Natter, Otto, Cannstatt, Germany. Lubricating pump. No. 1,413,052; Apr. 18.
 Naudulaitis, Kleofas, Chicago, Ill. Window adjuster. No. 1,425,675; Aug. 15.
 Naudulaitis, Kleofas, Chicago, Ill. Protector for horses. No. 1,425,676; Aug. 15.
 Naugatuck Chemical Company, The. (See Cadwell, Sidney M., assignor.)
 Naugle, Girardus G., York, Pa. Lubricating system for automobiles. No. 1,432,778; Oct. 24.
 Naugle, Harry M., Canton, Ohio. Metal-lath-attaching clip. (Reissue.) No. 15,301; Mar. 7.
 Naujoks, William, and E. McLaughlin, Los Angeles, Calif. Mouthpiece for wood-wind musical instruments. No. 1,413,929; Apr. 25.
 Naumberg, Robert E., et al. (See Hendricks, Henry S., assignor.)
 Naumburg, Robert E., Winchester, assignor to Saco-Lowell Shops, Lowell, Mass. Tension device. No. 1,437,116; Nov. 28.
 Naumkeag Buffing Machine Company. (See Hodgkins, Edward F., assignor.)
 Naus, Theodore, Chicago, Ill. Pneumatic tire. No. 1,436,720; Nov. 28.
 Nauts, Frank A., assignor to The Gendron Wheel Co., Toledo, Ohio. Toy motor vehicle. No. 1,407,879; Feb. 28.
 Navarre, Gaston, Boulogne-sur-Seine, France. Typewriting machine. No. 1,432,779; Oct. 24.
 Navarre, Placide O., Paris, France. Machine for removing the stalks from fruits. No. 1,414,889; May 2.
 Nave, Vincent, Providence, R. I. Tire. No. 1,427,622; Aug. 29.
 Navius, Thomas J., Ottawa, Ill. Illuminated pennant. No. 1,415,680; May 9.
 Navone, John O., Oakland, Calif. Reclaiming rubber. No. 1,424,668; Aug. 1.
 Navoni, Louis A., Seattle, Wash. Automobile bumper. No. 1,414,300; Apr. 25.
 Nayer, Carl F., assignor to W. E. Kier, Chicago, Ill. Type-feeding device. No. 1,414,148; Apr. 25.
 Naylor, Carl G., and G. F. Hauf, assignors to Robertson Brothers Manufacturing Company, Chicago, Ill. Trough. No. 1,424,371; Aug. 1.
 Naylor, Jesse R., Portland, Oreg. Traffic signal. No. 1,431,414; Oct. 10.
 Naylor, Ralph B., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Accelerator. No. 1,418,824; June 6.
 Naylor, Ralph B., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Vulcanizing rubber. No. 1,418,825; June 6.
 Nazel, Ralph W. (See Fritsch, E. J., and Nazel.)
 Neahr, Jacob E., New York, N. Y. Match holder. No. 1,413,991; Apr. 25.
 Neahr, Jacob E., New York, N. Y. Combined match safe and igniting device. No. 1,432,889; Oct. 24.
 Neahr, Will C., Denver, Colo. Display stand for incandescent electric lamps. No. 1,408,128; Feb. 28.
 Neahr, Will C., assignor to The Protective Signal Manufacturing Company, Denver, Colo. Lamp support. No. 1,430,101; Sept. 26.
 Neal, Anna L., administratrix. (See Davidson, William S.)
 Neal, Burton, St. Louis, and G. H. Hebebrand, Kinloch, Mo. Driving mechanism for producing gyratory motion. No. 1,423,871; July 25.
 Neal, Burton, St. Louis, and G. H. Hebebrand, Kinloch, Mo. Self-balancing mechanism for producing gyratory motion. No. 1,434,252; Oct. 31.
 Neal, Daniel D. (See Boone, Elsworth E., assignor.)
 Neal, Darel, Redondo Beach, Calif. Foldable stove. No. 1,428,113; Sept. 5.
 Neal, Earl W., assignor to Western Electric Company, Incorporated, New York, N. Y. Heater. No. 1,405,064; Jan. 31.
 Neal, Earl W., assignor to Western Electric Company, Incorporated, New York, N. Y. Grid-lining method and machine. No. 1,434,836; Nov. 7.
 Neal, Elmer E., New Haven, Conn., assignor to Marlin-Rockwell Corporation, New York, N. Y. Bomb structure. No. 1,415,947; May 16.
 Neal, Elmer E., Philadelphia, Pa., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del. Taper roller bearing. No. 1,440,312; Dec. 26.
 Neal, Enoch E., Malden, Mass. Coal chute. No. 1,423,872; July 25.
 Neal, Franklin G. (See Seelar, L. F., and Neal.)
 Neal, Harry W., assignor of one-half to Hall-Neal Furnace Company, Indianapolis, Ind. Automatic air circulator for heating furnaces. No. 1,426,900; Aug. 22.
 Neal, Joseph A., et al., trustees. (See Neal, Joseph A., assignor.)
 Neal, Joseph A., Mobile, Ala., assignor to J. C. Haswell, Dayton, Ohio, H. Stover, Mobile, and J. A. Neal, Crichton, Ala., trustees. Separating device for sawing machines. No. 1,435,252; Nov. 14.

Alphabetical list of patentees—Continued.

- Neal, Spencer G., New York, N. Y., assignor to Automatic Straight Air Brake Company, Wilmington, Del. Air-brake apparatus. No. 1,411,368; Apr. 4.
- Neal, Spencer G., New York, N. Y., assignor to Automatic Straight Air Brake Company, Wilmington, Del. Air-brake apparatus. No. 1,418,961; June 6.
- Neal, Spencer G., New York, N. Y., assignor to Automatic Straight Air Brake Company, Wilmington, Del. Compensating valve. No. 1,433,405; Oct. 24.
- Neal, Spencer G., New York, N. Y., assignor to Automatic Straight Air Brake Company, Wilmington, Del. Compensating valve. No. 1,433,406; Oct. 24.
- Neal, Spencer G., New York, N. Y., assignor to Automatic Straight Air Brake Company, Wilmington, Del. Compensating valve. No. 1,433,407; Oct. 24.
- Neal, Spencer G., New York, N. Y., assignor to Automatic Straight Air Brake Company, Wilmington, Del. Air-brake apparatus. No. 1,434,746; Nov. 7.
- Neale, Alvin R., Adel, Iowa. Mechanism for operating doors. No. 1,426,591; Aug. 22.
- Neale, Charles C., St. Paul, Minn., assignor of one-half to F. Reichmann, Webster Groves, Mo. Liquid-dispensing apparatus. No. 1,402,086; Jan. 3.
- Neary, Philip, Walla Walla, Wash. Portable hopper. No. 1,428,605; Sept. 12.
- Neathammer, Joseph A., Alhambra, Ill. Gear housing. No. 1,423,675; July 25.
- Nebeker, F. O., et al. (See Gunn, Charles H., assignor.)
- Nebeling, Edmund R., Brooklyn, N. Y. Clasp. No. 1,404,637; Jan. 24.
- Nebeling, Edmund R., New York, N. Y. Separable fastener. No. 1,430,462; Sept. 26.
- Neeb, Samuel G. (See Wagner, H. F., and Neeb.)
- Neece, Thomas C. (See Pettet, William T., assignor.)
- Needham, George H., assignor of one-half to G. J. Needham, Newark, N. J. Illuminated number plate. No. 1,429,758; Sept. 19.
- Needham, George J. (See Needham, George H., assignor.)
- Needham, Joseph, New York, N. Y. Valve device. No. 1,402,527; Jan. 3.
- Needham, Joseph, Passaic, N. J. Gas mixer. No. 1,411,062; Mar. 28.
- Needham, Joseph, Passaic, N. J. Gas mixer. No. 1,411,063; Mar. 28.
- Needham, Moses W., Waco, Tex. Soft-rubber tire filler. No. 1,421,537; July 4.
- Needham, William H., assignor to Boston Pressed Metal Co., Worcester, Mass. Ejecting mechanism for die presses. No. 1,405,425; Feb. 7.
- Needham, William H., assignor to Boston Pressed Metal Co., Worcester, Mass. Press-feeding mechanism. No. 1,422,605; July 11.
- Needham, William H., assignor to Boston Pressed Metal Company, Worcester, Mass. Forming an article of sheet metal. No. 1,427,315; Aug. 29.
- Needy, William H. H., Hagerstown, Md. Balance staff for timepieces. No. 1,423,446; July 18.
- Neely, Albert E., Chicago, Ill. Photograph-record holder. No. 1,437,608; Dec. 5.
- Neely, Frederick W., Chicago, Ill. Sheet-grouping machine. No. 1,432,890; Oct. 24.
- Neely, Jesse P., Adams, Tenn. Cultivator attachment. No. 1,424,669; Aug. 1.
- Neenan, John, Terre Haute, Ind., assignor to American Car and Foundry Company, New York, N. Y. Ejecting device for key-forming machines. No. 1,432,199; Oct. 17.
- Neese, Earl C. (See Neese, Otis V., E. L., and E. C.)
- Neese, Elo L. (See Neese, Otis V., E. L., and E. C.)
- Neese, Otis V., E. L., and E. C. Round Top, Tex. Super-locking hollow tile. No. 1,424,372; Aug. 1.
- Nefczesauskas, Joseph, Cleveland, Ohio. Door check. No. 1,402,641; Jan. 3.
- Neff, George F. (See Kasch, F. C., and Neff.)
- Neff, Harry D., Cambridge, assignor to Re-Filit Broom Company, Boston, Mass. Broom or brush unit. No. 1,411,221; Mar. 28.
- Neff, Harry D., Cambridge, assignor to Re-Filit Broom Company, Boston, Mass. Broom-bundle-making machine. No. 1,421,812; July 4.
- Neff, John, sr., West Hoboken, N. J. Embroidery machine. No. 1,432,608; Oct. 17.
- Neff, John P., East Orange, N. J., assignor to American Arch Company, New York, N. Y. Fire-box structure. No. 1,426,404; Aug. 22.
- Neft, Max, Seattle, Wash. Knife. No. 1,428,296; Sept. 5.
- Neft, Max, Seattle, Wash. Knife. No. 1,431,835; Oct. 10.
- Negbauer, Harry, New York, N. Y., assignor to E. & J. Bass, Incorporated. Ash tray. No. 1,427,838; Sept. 5.
- Négre, Joseph, St. Dié, France. Hydraulic turbine. No. 1,412,313; Apr. 11.
- Negrotto, Buchanan D., New Orleans, La. Generator drive mechanism for car trucks. No. 1,410,949; Mar. 28.
- Nehls, Wilhelm, and A. Lemke, Mazepa, Minn. Plow attachment. No. 1,425,409; Aug. 8.
- Neidig, Percy H., Madison, Nebr. Door latch. No. 1,405,857; Feb. 7.
- Neighbors, Charles C., Shreveport, La. Back-up post. No. 1,407,880; Feb. 28.
- Neighbour, Arthur G. L. and H. C. W., Brighton, Victoria, Australia. Two-cycle internal-combustion engine. No. 1,423,578; July 25.
- Neighbour, Harry C. W. (See Neighbour, Arthur G. L. and H. C. W.)
- Neighbour, Leonard B., assignor to Deere & Company, Moline, Ill. Wheel mounting. No. 1,416,740; May 23.
- Neikirk, John O., Lombard, Ill. Car construction. No. 1,405,544; Feb. 7.
- Neikirk, John O., Lombard, Ill. Fireplace. No. 1,410,341; Mar. 21.
- Neikirk, John O., Lombard, Ill. Draft mechanism. No. 1,419,508; June 13.
- Neikirk, John O., Lombard, Ill., assignor to Rodger Ballast Car Company. Combination center and side dump car. No. 1,405,149; Jan. 31.
- Neikirk, John O., Lombard, assignor to Rodger Ballast Car Company, Chicago, Ill. Railway car. No. 1,424,770; Aug. 8.
- Neikirk, John O., Lombard, assignor to Rodger Ballast Car Co., Chicago, Ill. Dump-door-operating mechanism. No. 1,428,650; Sept. 12.
- Neiley, Jewett F., Endicott, N. Y. Stamping attachment for hide splitters. No. 1,416,967; May 23.
- Neill, Joseph R. (See McIntosh, J., and Neill.)
- Neill, Paul. (See Allen, R. M., and Neill.)
- Neils, William D., Davenport, Iowa. Spring wheel. No. 1,402,882; Jan. 10.
- Neilson, Albert H., Tulsa, Okla. Reversible-slip sucker-rod socket. No. 1,433,146; Oct. 24.
- Neiman, Edna A., Brooklyn, N. Y. Container. No. 1,422,606; July 11.
- Neiman, Howard S., Brooklyn, N. Y. Toilet device. No. 1,438,778; Dec. 12.
- Neiman, Howard S., Brooklyn, N. Y. Toilet device. No. 1,439,749; Dec. 26.
- Neimeyer, John, Trenton, Ohio. Railway tie. No. 1,429,087; Sept. 12.
- Neissier, Oscar L., Chicago, Ill. Internal-combustion engine. No. 1,414,149; Apr. 25.
- Neiswender, Charles A., Topeka, Kans. Convertible porch swing and couch. No. 1,426,405; Aug. 22.
- Neitro, Albert, Seattle, Wash. Oven. No. 1,434,792; Nov. 7.
- Neitzel, Frank E., San Francisco, Calif., assignor to Bethlehem Shipbuilding Corporation, Ltd., South Bethlehem, Pa. Machine for facing propeller blades. No. 1,426,091; Aug. 15.
- Neitzel, George F., Lyons, Nebr. Vehicle-unloading platform. No. 1,403,055; Jan. 10.
- Nekoosa Motor and Machine Co. (See Beadle, Warren E., assignor.)
- Nekritz, Louis, Brooklyn, N. Y. Manufacturing liquid polish. No. 1,431,026; Oct. 3.
- Neldner, Edward E., Milwaukee, Wis. Two-cycle engine. No. 1,405,545; Feb. 7.
- Neldner, Roman, Milwaukee, Wis. Transposing device for player pianos. No. 1,408,824; Mar. 7.
- Nelesen, William, Sheboygan, Wis. Machine for collecting waste metal articles. No. 1,416,860; May 23.
- Nell, Gustave M., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Throttle valve. No. 1,413,288; Apr. 18.
- Nell, Gustave M., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Tool-retaining means. No. 1,430,102; Sept. 26.
- Neller, Albert H., Fairfield, Iowa. Overhead track connection. No. 1,419,684; June 13.
- Neller, Albert H., Fairfield, Iowa. Hinge for gates and other closures. No. 1,437,736; Dec. 5.
- Neller, Albert H., assignor to The Loudon Machinery Company, Fairfield, Iowa. Hoist. No. 1,432,409; Oct. 17.
- Nellis, Frank E., jr. (See Post, C. E., and Wagner, assignors.) (Reissue.)
- Nelsen, Andrew, Chicago, Ill. Can-polishing machine. No. 1,415,258; May 9.
- Nelsen, Walter S., Vallejo, Calif. Radium emergency light. No. 1,412,955; Apr. 18.
- Nelson, Adolph L., Indianapolis, Ind. Piston. No. 1,409,757; Mar. 14.
- Nelson, Adolph L., Indianapolis, Ind. Internal-combustion engine. No. 1,429,159; Sept. 12.
- Nelson, Adolph L., Indianapolis, Ind. Piston. No. 1,438,132; Dec. 5.
- Nelson, Albin J., Eau Claire, Wis. Temperature and pressure controller. No. 1,439,750; Dec. 26.
- Nelson, Aleck, Woodland, Calif. Thrashing machine. No. 1,408,770; Mar. 7.
- Nelson, Alexander W., Newark, N. J., assignor to Nelson Tool & Machine Company, Incorporated. Adjustable angle plate. No. 1,414,970; May 2.
- Nelson, Alfred. (See Duncan, C. A., and Nelson.)
- Nelson, Alfred C., Lakewood, assignor to The William B. Pollock Company, Youngstown, Ohio. Ladle car and ladle therefor. No. 1,405,065; Jan. 31.
- Nelson, Alfred C., Lakewood, and E. J. Reilly, assignors to The William B. Pollock Company, Youngstown, Ohio. Hot-metal car. No. 1,438,661; Dec. 12.
- Nelson, Andrew, and O. H. Hinnard, Chattanooga, Tenn. Fire-grate oven attachment. No. 1,424,584; Aug. 1.
- Nelson, Arthur W., Williamsport, Pa. Sash supporter. No. 1,437,672; Dec. 5.
- Nelson, Arthur W., assignor to Stone Thompson Manufacturing Company, Chicago, Ill. Automobile rim lug and wedge. No. 1,425,677; Aug. 15.
- Nelson, August W., Spokane, Wash. Traction means for automobiles. No. 1,406,212; Feb. 14.

- Nelson, Axel M., assignor to General American Tank Car Corporation, Chicago, Ill. Tank car. No. 1,429,685; Sept. 19.
- Nelson, Bernard S., assignor to A. M. Lockett & Co. Ltd., New Orleans, La. Oil heater. No. 1,427,408; Aug. 29.
- Nelson, Bert O., Scandinavia, Wis. Boom adjuster. No. 1,414,890; May 2.
- Nelson, Carl F. (See Hammond, E. C., and Nelson.)
- Nelson, Carl G. (See Radlein, A. L., and Nelson.)
- Nelson, Charles A., et al. (See Taylor, Boone U., assignor.)
- Nelson, Charles A., Utica, N. Y., assignor to Savage Arms Corporation. Recoil check. No. 1,429,619; Sept. 19.
- Nelson, Charles A., assignor to Savage Arms Corporation, Utica, N. Y. Extractor mechanism for firearms. No. 1,435,327; Nov. 14.
- Nelson, Chester A. (See Prestes, George J., assignor.)
- Nelson, Christian K., Onawa, Iowa, assignor of one-half to R. Stover, Chicago, Ill. Confection. No. 1,404,539; Jan. 24.
- Nelson, Clare. (See Reed, F. P., and Nelson.)
- Nelson, Edward. (See Zetterman, Axel L., assignor.)
- Nelson, Ellin. (See Dehlin, August G., assignor.)
- Nelson, Emil A., assignor, by mesne assignments, to A. H. Murray, Detroit, Mich. Gasket and making same. No. 1,430,103; Sept. 26.
- Nelson, Eric H., and E. A. Dewald, Massillon, Ohio, assignors to The Griscom Russell Company, New York, N. Y. Combined feed and brine pump. No. 1,405,737; Feb. 7.
- Nelson, Erik W., New Rochelle, N. Y. Shutter mechanism for motion-picture machines. No. 1,417,098; May 23.
- Nelson, Erik W., New Rochelle, N. Y. Magazine light trap for motion-picture cameras. No. 1,437,989; Dec. 5.
- Nelson, Ernest H., Duluth, Minn. Chain tightener. No. 1,407,946; Feb. 28.
- Nelson, Frank C., Clarksburg, W. Va. Clothes hanger. No. 1,421,709; July 4.
- Nelson, George R., Center City, Minn. Power attachment. No. 1,428,651; Sept. 12.
- Nelson, George W., Minneapolis, Minn. Foot-measuring device. No. 1,429,963; Sept. 26.
- Nelson, Gustaf T., Beaumont, Tex. Steering mechanism. No. 1,419,977; June 20.
- Nelson, Gustave C., assignor to The Borg & Beck Company, Moline, Ill. Friction clutch. No. 1,427,623; Aug. 29.
- Nelson, Harold, Brooklyn, N. Y. Device for taking in holding and paying out fish lines. No. 1,405,546; Feb. 7.
- Nelson, Herman C. (See Engstrom, O. L., and Nelson.)
- Nelson, Ienar F., Racine, Wis. Belt or chain tightener. No. 1,425,604; Aug. 15.
- Nelson, J. F. Foster, et al. (See Riley, George, assignor.)
- Nelson, James D., Cincinnati, Ohio. Electric signal system. No. 1,403,561; Jan. 17.
- Nelson, James D., Cincinnati, Ohio. Electric-alarm transmitter. No. 1,427,543; Aug. 29.
- Nelson, James H., Kansas City, Mo. Toy shooting gallery. No. 1,412,625; Apr. 11.
- Nelson, John. (See Baicker, Martin, assignor.)
- Nelson, John. (See Trachy, E. R., and Nelson.)
- Nelson, John, Glasgow, Scotland. Apparatus for the cracking of hydrocarbon oils and the like. No. 1,412,540; Apr. 11.
- Nelson, John, Glasgow, Scotland. Manufacture of carbon for pigmental and other purposes. No. 1,414,482; May 2.
- Nelson, John, Bridgeport, Conn. Doorknob lock. No. 1,422,467; July 11.
- Nelson, John, Ottawa, Kans. Display rail. No. 1,425,211; Aug. 8.
- Nelson, John, and G. Seeds, Newton, Iowa, assignors to Automatic Electric Washer Co., Inc. Operating mechanism for washing machines. No. 1,417,099; May 23.
- Nelson, John A., Charleston, S. C. Fuse. No. 1,422,122; July 11.
- Nelson, Jos. E., & Sons. (See Tanner, Inos B., assignor.)
- Nelson, Joseph M., Minneapolis, Minn. Door opening and closing device. No. 1,426,901; Aug. 22.
- Nelson, Joyce C., Minneapolis, Minn., assignor of one-sixth to W. H. Nelson, one-sixth to W. N. Nelson, and one-sixth to S. A. Vandusen, Tracy, Minn. Seat support for motor cycles. No. 1,419,294; June 13.
- Nelson, Karl O., and O. Albert, assignors to Galland-Henning Mig. Co., Milwaukee, Wis. Valve. No. 1,438,325; Dec. 12.
- Nelson, Lawrence C., Chicago, and J. C. Polan, Berwyn, Ill., assignors, by mesne assignments, to Stewart Manufacturing Corporation, Wilmington, Del. Automobile curtain window. (Reissue.) No. 15,508; Dec. 19.
- Nelson, Leon J., Los Angeles, Calif., assignor of one-half to B. A. Metcalf, Denver, Colo. Shoe-polish container and holder. No. 1,402,948; Jan. 10.
- Nelson, Lewis D., Union City, Mich. Bag-tying machine. No. 1,429,160; Sept. 12.
- Nelson, Lionel, Wellington, New Zealand. Gas producer. No. 1,408,465; Mar. 7.
- Nelson, Nels A., assignor to Baco Electric Co., Bode, Iowa. Electric heating iron. No. 1,425,040; Aug. 8.
- Nelson, Nels H., Spencer, Iowa. Rolling window screen. No. 1,405,618; Feb. 7.
- Nelson, Nicolay. (See Barwell, J. W., Ward, Nelson, Hingher, Booth, and Blows.)
- Nelson, Nordahl O., Westby, Wis. Vehicle runner. No. 1,438,326; Dec. 12.
- Nelson, Norris E. and O., Seattle, Wash. Automatic circuit breaker. No. 1,435,870; Nov. 14.
- Nelson, Olof, assignor to The Robbins Company, Attleboro, Mass. Name-plate attachment. No. 1,405,547; Feb. 7.
- Nelson, Oscar M., New Orleans, La. Clarifier. No. 1,428,798; Sept. 12.
- Nelson, Otto. (See Nelson, Norris E. and O.)
- Nelson, Otto, Chicago, Ill. Diestock. No. 1,403,519; Jan. 17.
- Nelson, Otto, Chicago, Ill. Boiler feed. No. 1,433,968; Oct. 31.
- Nelson, Paul E., Red Wing, Minn. Bleaching liquid and manufacturing same. No. 1,414,039; Apr. 25.
- Nelson, Perry N. (See Moreau, Joseph, assignor.)
- Nelson, Philip M., Seattle, Wash. Shoe-lacing device. No. 1,421,291; June 27.
- Nelson, Ralph M., Sellersville, Pa., assignor to United States Gauge Company, New York, N. Y. Pressure gauge. No. 1,436,895; Nov. 28.
- Nelson, Raymond D., Mount Horeb, Wis. Shoe-string clamp for shoes. No. 1,412,256; Apr. 11.
- Nelson, Raymond F., Detroit, Mich. Tool kit for motor vehicles. No. 1,419,166; June 13.
- Nelson, Roy A., Chicago, Ill. Reinforced steel plate. No. 1,427,120; Aug. 29.
- Nelson, Theodore H., Chicago, Ill. Lockout mechanism for intercommunicating telephone systems. No. 1,419,403; June 13.
- Nelson, Thorwald E., Minneapolis, Minn. Starter for internal-combustion engines. No. 1,434,309; Oct. 31.
- Nelson Tool & Machine Company. (See Nelson, Alexander W., assignor.)
- Nelson, Towal. (See Somerville, George W., assignor.)
- Nelson, Victor V. (See Miller, E. P., and Nelson.)
- Nelson, Walter H., et al. (See Nelson, Joyce C., assignor.)
- Nelson, Wesley D., Chicago, Ill. Drum. No. 1,431,836; Oct. 10.
- Nelson, Will N., et al. (See Nelson, Joyce C., assignor.)
- Nelson, William, assignor, by mesne assignments, to Consolidated American Fastener Companies, Inc., New York, N. Y. Machine for making the socket members of snap buttons. No. 1,432,083; Oct. 17.
- Nelson, William E., San Antonio, Tex. Molding apparatus. No. 1,433,905; Oct. 31.
- Nelson, William J., Centralia, Wash. Hoisting apparatus. No. 1,412,956; Apr. 18.
- Nemecek, Milo V., and R. Stroppel, Cedar Rapids, Iowa. Can-capping machine. No. 1,435,415; Nov. 14.
- Nemeth, Stephen P., et al. (See Margo, Louis, assignor.)
- Nemeth, Stephen P., Dayton, Ohio. Machine for navigating the air. No. 1,414,577; May 2.
- Némety, Joseph, Trenton, N. J. Automatically-operated railway gate. No. 1,420,132; June 20.
- Nemo Circle Company. (See Kops, Waldemar, assignor.)
- Neppell, Harry N., New York, N. Y. Hat. No. 1,418,198; May 30.
- Nerger, Frederick, Chicago, Ill. Rubber heel. No. 1,404,045; Jan. 17.
- Nero, Arvid H., New Britain, assignor to The Arrow Electric Company, Hartford, Conn. Electric switch. No. 1,417,405; May 23.
- Nero, Arvid H., New Britain, assignor to The Arrow Electric Company, Hartford, Conn. Electric switch. No. 1,420,569; June 20.
- Neron, Aimé, New Bedford, Mass. Mechanic's tool of the handsaw type. No. 1,425,536; Aug. 15.
- Nesbit, Arthur F., Wilkensburg, Pa. Direct-current transformer. No. 1,421,538; July 4.
- Nesbit, Arthur F., Wilkensburg, Pa. Apparatus for controlling unidirectional electric currents. No. 1,437,439; Dec. 5.
- Nesbit, Joseph N. G., Atlanta, Ga. Horsepower calculator and recorder. No. 1,407,352; Feb. 21.
- Nesbitt, Hugh S., Detroit, Mich. Ginger-ale settler. No. 1,402,528; Jan. 3.
- Nesbitt, James H., Cleveland, Ohio. Apparatus for tilting automobiles. No. 1,435,654; Nov. 14.
- Nesbitt, Milton S., Payette, Idaho. Seed drier. No. 1,431,978; Oct. 17.
- Nesbitt, Robert D., et al. (See Armstrong, Frank T., assignor.)
- Nesland, Gustave, Davenport, Iowa. Camp stool. No. 1,417,680; May 30.
- Nesmevter, John B., Omaha, Nebr. Hack saw. No. 1,413,182; Apr. 18.
- Ness, Harold, Jersey City, N. J., assignor, by mesne assignments, of one-half to L. F. Nortier, New York, N. Y. Reboring tool. No. 1,436,669; Nov. 28.
- Ness, Harold, Jersey City, N. J., assignor, by mesne assignments, of one-half to L. F. Nortier, New York, N. Y. Means for indicating interruptions in ignition circuits. No. 1,436,670; Nov. 28.
- Ness, Jules M., Vermilion, S. Dak. Double envelope. No. 1,419,888; June 13.
- Nesser, Nicholas, assignor to Nesser & Company, Chicago, Ill. Golf bag. No. 1,424,317; Aug. 1.
- Nesser & Company. (See Nesser, Nicholas, assignor.)
- Nester, Ellen D., Gardner, Mass. Child's clothing. No. 1,424,318; Aug. 1.

Alphabetical list of patentees—Continued.

- Nester, Martin, Detroit, Mich. Dumping body. No. 1,432,487; Oct. 17.
- Nestle's Food Company. (See Garrett, Richard M., assignor.)
- Nestor Johnson Manufacturing Company. (See Ritter, Charles A., assignor.)
- Nestor Manufacturing Company, Inc. (See Cumner, M. S., and Geissenhainer, assignors.)
- Neth, George C., Dayton, Ohio. Metal-cutting-machine tool. No. 1,418,727; June 6.
- Neth, George J. (See Stern, M. C., and Neth.)
- Nethercut, Edgar S. (See Peterson, Burt A., assignor.)
- Netherton, John W., assignor of one-half to H. C. Hardt, South Bend, Ind. Antislashing device for automobiles. No. 1,429,366; Sept. 19.
- Nettgens, Heinrich, Alsbrieden, near Zurich, assignor to Eduard Straub-Keller, Sulgen, Switzerland. Burner for gaseous and liquid fuels. No. 1,415,383; May 9.
- Nettle, William E., P. Selby, J. Blythe, and J. H. Holman, Johannesburg, Transvaal, South Africa. Reciprocating rock drill for supplying water to bore holes during drilling. No. 1,428,606; Sept. 12.
- Nettlefold, Oswald, London, England. Device for locking nuts and the like. No. 1,415,681; May 9.
- Nettles, Lu E., Elbridge, Tenn. Cotton-picker's sack. No. 1,424,670; Aug. 1.
- Neu, Hugo, New York, N. Y., and L. Blaha, Lyndhurst, N. J. Protective device for automobiles. No. 1,403,343; Jan. 10.
- Neubeck, Walter G. (See Herterich, W. F., and Neubeck.)
- Neubert, Fritz E. (See Winnertz, P. B., and Neubert.)
- Neubert, Richard L., Knoxville, Tenn. Traveling hoist. (Reissue.) No. 15,295; Feb. 28.
- Neubert, Walter P., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Device for connecting circuit controllers with railway switches. No. 1,405,548; Feb. 7.
- Neudeck, Harry W., Fort Dodge, Iowa. Road-surfacing machine. No. 1,412,193; Apr. 11.
- Nendorff, Frederick, and R. R. Reid, Atlanta, Ga. Steam boiler. No. 1,432,722; Oct. 17.
- Neuenschwander, Lewis, assignor to Electric Fruit Marking Machine Co., Los Angeles, Calif. Electric fruit-marking machine. No. 1,421,292; June 27.
- Neuenschwander, Lewis, Los Angeles, assignor to Electric Fruit Marking Co., San Francisco, Calif. Electric fruit-marking machine. No. 1,421,539; July 4.
- Neuland, Alfons H., Bergenfield, N. J. Electromagnetic transmission. No. 1,410,215; Mar. 21.
- Neuland, Alfons H., Glendale, assignor to Neuland Electrical Company, Inc., San Francisco, Calif. Dynamo-electric machine. No. 1,418,390; June 6.
- Neuland Electrical Company. (See Neuland, Alfons H., assignor.)
- Neuman, Clarence. (See Johnson, O., and Neuman.)
- Neumann, Math, St. Cloud, Minn., Automatic calf feeder. No. 1,417,554; May 30.
- Neumann, Math, St. Cloud, Minn. Automatic calf feeder. No. 1,437,004; Nov. 28.
- Neumann, R., Hardware Co., The. (See Isidor, Joseph S., assignor.)
- Neumann, R., Hardware Co., The. (See Lotz, William A., assignor.)
- Neumann, R., Hardware Co., The. (See Tueckmantel, Hugo, assignor.)
- Neumar, Lewis G., Chicago, Ill. Ash sifter. No. 1,439,436; Dec. 19.
- Neumeyer, Horace F., Macungie, Pa. Apparatus for treating oil. No. 1,426,836; Aug. 22.
- Neumeyer, Horace F., Macungie, assignor to H. G. Biehn, Quakertown, Pa. Appliance for flushing closets. No. 1,428,971; Sept. 12.
- Neun, Dora E., assignor to G. W. Carnick Co., New York, N. Y. Manufacture of activated pancreatin and stabilization of same. No. 1,404,137; Jan. 17.
- Neuner, Clarence M., et al. (See Neuner, Martin C., assignor.)
- Neuner, Clarence M., Los Angeles, Calif. Envelope-making machine. No. 1,411,369; Apr. 4.
- Neuner, Martin C., assignor of one-third to C. M. Neuner and O. C. Reichert, Los Angeles, Calif. Game board. No. 1,420,334; June 20.
- Neuschwanger, Elmer G., Kansas City, Kans. Gas-heat retainer and flame cleanser. No. 1,414,664; May 2.
- Neusiis, Carl H., Baker, Oreg. Acetylene miner's lamp. No. 1,420,133; June 20.
- Neustadter Bros. (See Ballin, Maurice, assignor.)
- Neuteboom, Boudewijn B. (See Taylor, C. H., and Neuteboom.)
- Neuteboom, Boudewijn B., Detroit, Mich., assignor, by mesne assignments, to Sinclair Molitor Corporation, New York, N. Y. Vehicle seat support. No. 1,428,652; Sept. 12.
- Neuteboom, Boudewijn B., Detroit, Mich., assignor, by mesne assignments, to Winther Motors, Inc., Kenosha, Wis. Universal-joint casing. No. 1,428,799; Sept. 12.
- Never Scratch Auto Washer Company, The. (See Sandholm, Oscar N., assignor.)
- Neviczky, Eleanor H., McKeesport, Pa. Safety gas valve. No. 1,423,010; July 18.
- Nevins, Ennis, El Paso, Tex. Quantity regulator. No. 1,411,124; Mar. 28.
- Nevistich, Frank. (See Carapina, M., and Nevistich.)
- New Britain Machine Company, The. (See Hodge, George O., assignor.)
- New Comer, Daniel A., assignor to C. R. Welch and E. R. Clayton, Los Angeles, Calif. Steering gear and draw-bar for trailers. No. 1,403,442; Jan. 10.
- New Haven Clock Co. (See Porter, Wilson E., assignor.)
- New Ideal Power Company. (See Eppley, Charles S., assignor.)
- New Jersey Foundry & Machine Company. (See Hesccock, E. N., and Smith, assignors.)
- New Jersey Optical Co. (See Durgin, Edgar R., assignor.)
- New Jersey Patent Company. (See Constable, John P., assignor.)
- New Jersey Patent Company. (See Edison, T. A., and Kircher, assignors.)
- New Jersey Patent Company. (See Edison, Thomas A., assignor.)
- New Jersey Patent Company. (See Holland, Newman H., assignor.)
- New Jersey Patent Company. (See Rodman, Isaac P., assignor.)
- New Jersey Patent Company. (See Shakespeare, William M., assignor.)
- New Jersey Silk Machinery Company. (See Hines, Robert E., assignor.)
- New Jersey Testing Laboratories. (See Ellis, Carleton, assignor.)
- New Jersey Zinc Company, The. (See Borchardt, Walter O., assignor.)
- New Jersey Zinc Company, The. (See Breyer, F. G., Croll, and Farber, assignors.)
- New Jersey Zinc Company, The. (See Singmaster, J. A., and Breyer, assignors.)
- New Jersey Zinc Company, The. (See Singmaster, J. A., Breyer, and Farber, assignors.)
- New, John R., Mayfield, Ky. Combination chair, ironing board, and stepladder. No. 1,439,437; Dec. 19.
- New Process Copper Castings Company. (See Smith, James, assignor.)
- New Speed Carburetor Company. (See Speed, James A., assignor.)
- New, Thomas E., assignor to Precision Equipment Company, Cincinnati, Ohio. Spark plug. No. 1,405,549; Feb. 7.
- New Way Harvester Company, The. (See Christiansen, Christian, assignor.)
- New York Bath Manufacturing Co. (See Driver, Wilbur B., assignor.)
- New York Bath Manufacturing Co. (See Holley, William V., assignor.)
- New York Belting & Packing Company. (See Cobb, Henry Z., assignor.)
- New York Belting and Packing Company. (See Ostromilensky, Iwan, assignor.)
- New York Belting and Packing Company. (See Somerville, Albert A., assignor.)
- New York Consolidated Card Company, The. (See Cohen, Stanley A., assignor.)
- New York Couch Bed Company. (See Sisbower, G. F., and Pittoni, assignors.)
- New York Engineering Company. (See Colven, J. M., and Lowy, assignors.)
- New York Engineering Company. (See Ludlum, A. C., and Lowy, assignors.)
- New York Mackintosh Clothing Co. (See Geis, Leopold H., assignor.)
- New York Wire & Spring Company. (See Wernig, Frederick A., assignor.)
- New Zealand Co-Operative Honey Producers' Association, Limited. (See Smedley, Cornelius, assignor.)
- New Zealand Flusher Company Limited, The. (See Johns, Stuart O., assignor.)
- Newark Gear Cutting Machine Co. (See Eberhardt, Ulrich S., assignor.)
- Newark Watch Case Materials Company. (See Milne, Alexander, assignor.)
- Newberry, Dale W., Virginia, Ill. Motor-car attachment. No. 1,402,883; Jan. 10.
- Newberry, George I., Fulton, Ky. Seed-collector device for mowers. No. 1,429,294; Sept. 19.
- Newberry, John A., Huntington, W. Va. Cable splice. No. 1,427,494; Aug. 29.
- Newbigin, Henry T., Newcastle-upon-Tyne, assignor to Michell Bearings Limited, London, England. Journal and like bearing. No. 1,405,317; Jan. 31.
- Newbury, Warren C., East Boston, Mass., assignor to Samuel Cabot, Inc. Cleansing compound. No. 1,415,605; May 9.
- Newby, Ellsberry, Fresno, Calif. Treating dried figs. No. 1,434,837; Nov. 7.
- Newby, General T., Jr., New Bern, N. C. Cultivator. No. 1,408,902; Mar. 7.
- Newby, Henry H., San Quentin, Calif. Surf board. No. 1,404,790; Jan. 31.
- Newcom, Harvey C., Gregory, S. Dak. Crank handle. No. 1,432,891; Oct. 24.
- Newcom, Harvey C., Gregory, S. Dak. Crank handle. No. 1,439,018; Dec. 19.

- Newcomb, Alcanzo D., Norfolk, assignor, by mesne assignments, of one-half to R. D. L. Fletcher, Cape Charles, and one-half to R. T. Marsh, Richmond, Va. Oarlock for boats. No. 1,408,129; Feb. 28.
- Newcomb, Alcanzo D., Norfolk, assignor, by mesne assignments, of one-half to R. D. L. Fletcher, Cape Charles, and one-half to R. T. Marsh, Richmond, Va. Lifeboat. No. 1,408,130; Feb. 28.
- Newcomb, Alcanzo D., Norfolk, assignor, by mesne assignments, of one-half to R. D. L. Fletcher, Cape Charles, and one-half to R. T. Marsh, Richmond, Va. Releasing mechanism for life boats. No. 1,416,498; May 16.
- Newcomb, Alcanzo D., Norfolk, assignor, by mesne assignments, of one-half to R. D. L. Fletcher, Cape Charles, and one-half to R. T. Marsh, Richmond, Va. Hatch for boats. No. 1,416,499; May 16.
- Newcomb, Cyrus B. (See Blum, William A., assignor.)
- Newcomb, Romie J., Baltimore, Md. Manure loader. No. 1,423,676; July 25.
- Newcombe, John W., Detroit, Mich. Centrifugal dust separator. No. 1,420,665; June 27.
- Newdick, Norton A., Columbus, Ohio. Coal-loading machine. (Reissue.) No. 15,339; Apr. 18.
- Newdick, Norton A., Columbus, Ohio, assignor to J. E. Jones, Switchback, W. Va. Coal-loading machine. No. 1,413,128; Apr. 18.
- Newdick, Norton A., Columbus, Ohio, assignor to J. E. Jones, Switchback, W. Va. Loading machine. No. 1,413,129; Apr. 18.
- Newe, Robert A., Houston, Tex. Electric signal apparatus for elevators. No. 1,418,322; June 6.
- Newell, Alfred T., Birmingham, Ala. Railway-track paving. No. 1,407,436; Feb. 21.
- Newell, Alfred T., Birmingham, Ala. Culvert and arch construction. No. 1,433,219; Oct. 24.
- Newell, Alfred T., Birmingham, Ala. Roadway. No. 1,435,618; Nov. 14.
- Newell, Alfred T., Birmingham, Ala. Roadway. No. 1,436,896; Nov. 28.
- Newell Automatic Garage Door Company. (See Newell, Fredrick B., assignor.)
- Newell, Frank C., Jr., assignor, by mesne assignments, to L. D. Sampson, New York, N. Y. Phrenological chart. No. 1,410,342; Mar. 21.
- Newell, Frank K., Philadelphia, Pa. Soap-chipping device. No. 1,436,721; Nov. 28.
- Newell, Fredrick B., Denver, Colo., assignor to Newell Automatic Garage Door Company. Automatically-operated garage door. No. 1,436,048; Nov. 21.
- Newell, Louis B., assignor to Carr-Lowrey Glass Company, Baltimore, Md. Bottle. No. 1,419,509; June 13.
- Newell Mfg. Co., The. (See Barnwell, Harry T., assignor.)
- Newell Mfg. Co., The. (See Newell, William A., assignor.)
- Newell, Peter S. H., Leonia, N. J., assignor to The Diamond Products Corporation, Wilmington, Del. Figure toy. No. 1,428,182; Sept. 5.
- Newell, William A., assignor to The Newell Mfg. Co., Inc., Ogdensburg, N. Y. Curtain rod and rod support. No. 1,428,972; Sept. 12.
- Newell, William C., Portland, Oreg. Automatic heat-controlled cut-out. No. 1,439,707; Dec. 26.
- Newgirk, Michael H. (See Martin, H. G., and Newgirk.)
- Newhall, Henry B. (See Karitzky, John, assignor.)
- Newhall, Henry B. (See Pleister, H. W., and Karitzky, assignors.)
- Newhall, Henry B. (See Pleister, Henry W., assignor.)
- Newhall, Henry B. (See Sherwood, Daniel R., assignor.)
- Newhard, John H. (See Fegely, J. P., and Newhard.)
- Newhouse, Ray C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Steering device. No. 1,425,678; Aug. 15.
- Newkirk, Edgar H., Tulsa, Okla. Underreamer. No. 1,414,704; May 2.
- Newkirk, Perry B., Seattle, Wash., assignor to F. M. Bowden (in trust), Toronto, Ontario, Canada. Motor-vehicle transmission mechanism. No. 1,417,406; May 23.
- Newkirk, William P., assignor of one-third to E. J. Brock and one-third to G. A. Black, St. Louis, Mo. Packing. No. 1,437,262; Nov. 28.
- Newland, Barnett, New York, N. Y., assignor to Incandescent Supply Company. Holder for globes. No. 1,417,939; May 30.
- Newland, Charles L., Eltham, England. Machine-tool holder. No. 1,406,064; Feb. 7.
- Newland, Charles L., Eltham, England. Closure for bottles, jars, and other receptacles. No. 1,426,209; Aug. 15.
- Newlin, Otto, Wallace, Mich. Log loading and unloading grapple. No. 1,429,161; Sept. 12.
- Newlyn, Thomas J., El Paso, Tex. Cosmetic lotion. No. 1,408,384; Feb. 28.
- Newman, A. L., Company. (See Burgess, Andrew O., assignor.)
- Newman, Albert T., assignor to J. A. Rankin, Emporia, Kans. Oil burner. No. 1,410,028; Mar. 21.
- Newman, Andrew. (See Mickels, S. A., and Newman.)
- Newman, Barna, New York, N. Y. Waterproof hat protector. No. 1,417,100; May 23.
- Newman, Charles L., Berkeley, Calif. Parachute. No. 1,423,248; July 18.
- Newman Clock Company, The. (See Healy, E. C., and Schmidt, assignors.)
- Newman Clock Company Inc., The. (See Healy, Ellis C., assignor.)
- Newman Clock Company Inc., The. (See Renshaw, C. E., and Davis, assignors.)
- Newman Clock Company Inc., The. (See Renshaw, C. E., and Healy, assignors.)
- Newman Clock Company Inc., The. (See Renshaw, Charles E., assignor.)
- Newman Clock Company Inc., The. (See Richards, Benjamin, assignor.)
- Newman, Edwin F. S., Washington, D. C., assignor to N. D. Baker, Secretary of War, trustee. Detecting gases. No. 1,419,685; June 13.
- Newman, Emil, Fessenden, N. Dak. Hitch. No. 1,417,344; May 23.
- Newman, Fred, Louisville, Ky. Flue cleanout. No. 1,435,078; Nov. 7.
- Newman, George W. (See Pitt, F. D., and Newman.)
- Newman, Harry C., assignor of one-third to H. D. Eberle and one-third to S. C. Rogers, Los Angeles, Calif. Jack. No. 1,435,128; Nov. 7.
- Newman, Henry, assignor to Newman & Volk Incorporated, New York, N. Y. Cap. No. 1,410,216; Mar. 21.
- Newman, Horatio H., et al. (See Rhodes, John A., assignor.)
- Newman, I., & Son. (See Newman, Samuel J., assignor.)
- Newman, Isidor, New York, N. Y. Electric machine tool. No. 1,431,749; Oct. 10.
- Newman, Joseph S., Cleveland, Ohio. Telephone instrument. No. 1,439,117; Dec. 19.
- Newman, Martin F., assignor to Wm. B. Scaife & Sons Company, Oakmont, Pa. Purifying and decolorizing water. No. 1,418,013; May 30.
- Newman, Mary J., Fort Smith, Ark. Trap. No. 1,425,410; Aug. 8.
- Newman, Samuel H., Algoma, Wis. Closet seat. No. 1,408,903; Mar. 7.
- Newman, Samuel J., assignor to I. Newman & Sons, New Haven, Conn. Clasp for corsets. No. 1,402,642; Jan. 3.
- Newman, Samuel J., assignor to I. Newman & Sons, New Haven, Conn. Corset. No. 1,402,643; Jan. 3.
- Newman, Victor F., and M. W. Loomis, Red Cliff, Colo. Concentrating table and method. No. 1,423,777; July 25.
- Newman & Guardia, Limited. (See Mason, Percy G., assignor.)
- Newman & Volk Incorporated. (See Newman, Henry, assignor.)
- Newsom, Henry. (See Squire, H. E., and Newsom.)
- Newsom, John F. (See Attenborough, L. G., and Newsom.)
- Newsom, John F., Palo Alto, Calif. Electrically-heated cooking device. No. 1,437,005; Nov. 28.
- Newsom, Joseph N., and H. E. Harder, assignors to Newsom Valve Company, St. Louis, Mo. Valve device for pneumatic tires. No. 1,423,873; July 25.
- Newsom Valve Company. (See Newsom, J. N., and Harder, assignors.)
- Newton, Charles H., London, England. Printing machine. No. 1,409,015; Mar. 7.
- Newton, Charles W., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Vamp-perforating machine. No. 1,439,019; Dec. 19.
- Newton, Daniel L., Fullerton, assignor to Union Tool Company, Torrance, Calif. Power hitch for pump-cables. No. 1,433,090; Oct. 24.
- Newton, Emmett S., et al. (See Kien, Edward T., assignor.)
- Newton, Frank C. (See Jones, J. E., and Newton.)
- Newton, Herbert B., Brookline, Mass. Hose-leg supporter. No. 1,424,771; Aug. 8.
- Newton, Herbert B., Brookline, Mass. Mold. No. 1,431,027; Oct. 3.
- Newton, James Q., Denver, Colo. Securities sales outfit. No. 1,417,854; May 30.
- Newton, John W. (See Dickens, C. S., Schley, and Newton.)
- Newton, Richard T. (See Dyer, Harry W., assignor.)
- Newton, Richard T., New York, N. Y. Motor wheel. No. 1,408,385; Feb. 28.
- Newton, Richard T., New York, N. Y. Glare screen. No. 1,408,386; Feb. 28.
- Newton, Richard T., New York, N. Y. Bumper bracket. No. 1,422,777; July 11.
- Newton, Richard T., New York, N. Y. Vehicle accessory. No. 1,427,624; Aug. 29.
- Newton, Richard T., New York, N. Y. Automobile lock. No. 1,430,463; Sept. 26.
- Newton, Richard T., New York, N. Y. Bumper attachment means. No. 1,430,464; Sept. 26.
- Newton, Richard T., New York, N. Y. Automobile bumper. No. 1,432,723; Oct. 17.
- Newton, Ruth E., assignor to Campbell Art Company, Elizabeth, N. J. Paper doll. No. 1,436,671; Nov. 28.
- Newton, William J., assignor to Harvey Hubbell, Inc., Bridgeport, Conn. Electric flush receptacle. No. 1,439,438; Dec. 19.
- Ney, Andrew F., East Kew, Victoria, Australia. Machine for filling rectangular metal boxes with vests. No. 1,418,451; June 6.

Alphabetical list of patentees—Continued.

- Ney, J. M., Company, The. (See Pfunder, Emil L., assignor.)
- Ney, J. M., Company, The. (See Weinstein, Louis J., assignor.)
- Ney, J. M., Company, The. (See Wolfe, Leon S., assignor.)
- Neyland, William M., Goliad, Tex. Support. No. 1,409,566; Mar. 14.
- Neyman, Gertrude M., et al. (See Logan, Sylvester M., assignor.)
- Niagara Alkali Company. (See Low, Frank S., assignor.)
- Niagara Metal Stamping Corporation. (See Armstrong, John A., assignor.)
- Niagara Sprayer Co. (See Tower, Max L., assignor.)
- Niblock, Frederick, Singapore, Straits Settlements. Construction of spring buffers. No. 1,411,977; Apr. 4.
- Niblock, Thomas E., Great Falls, Mont. Automatic control of electrical furnaces. No. 1,430,104; Sept. 26.
- Niceley, William O., assignor to The E. G. Lang Manufacturing Company, New York, N. Y. Merchandise display container. No. 1,427,839; Sept. 5.
- Nicholson, Frank J. C., Baltimore, Md. Automatic oiling device for internal-combustion engines. No. 1,415,464; May 9.
- Nicholas, Charles W., Tarentum, Pa., assignor to W. P. Murphy, Chicago, Ill. Uncoupling device. No. 1,428,051; Sept. 5.
- Nicholas Power Company. (See Horton, Charles, assignor.)
- Nicholas Power Company. (See Power, Nicholas, assignor.)
- Nicholas Power Company. (See Uhlemann, Theodore F., assignor.)
- Nicholaus, Herman C. (See Haller, J. G., and Nicholson.)
- Nicholls, Albert E., Wilson Creek, Wash. Internal-combustion engine. No. 1,423,677; July 25.
- Nicholls, John S. C., Boston, and M. W. Smith, Somerville, Mass. Exercising apparatus. No. 1,416,741; May 23.
- Nicholls, William H., Brooklyn, N. Y. Molding machine. No. 1,403,809; Jan. 17.
- Nichols, Aaron S., New York, N. Y. Shaft collar. No. 1,409,758; Mar. 14.
- Nichols, Aaron S., New York, N. Y. Veneer drier. No. 1,431,138; Oct. 3.
- Nichols, Charles F. (See Webb, James P., assignor.)
- Nichols, Clarence N. (See Copley, Charles H., assignor.)
- Nichols, Edgar B., Rochester, N. Y. Chain-link construction. No. 1,430,834; Oct. 3.
- Nichols, Edgar B., Rochester, N. Y., assignor to American Flyer Mfg. Co., Chicago, Ill. Producing complementary parts. No. 1,430,024; Sept. 26.
- Nichols, Edgar B., and C. W. Carroll, assignors to The Pfander Company, Rochester, N. Y. Joint for hinged covers. No. 1,408,387; Feb. 28.
- Nichols, Edward R., Bridgeport, Conn. Knife sharpener. No. 1,438,052; Dec. 5.
- Nichols, Elliott S., Detroit, Mich. Safety device for tractors. No. 1,436,191; Nov. 21.
- Nichols, Emory D., Chicago, Ill. Penholder. No. 1,407,563; Feb. 21.
- Nichols, George J., Minneapolis, Minn. Combined spat and leg covering. No. 1,438,327; Dec. 12.
- Nichols, George J., and B. F. Orear, Minneapolis, Minn. Folding table. No. 1,402,174; Jan. 3.
- Nichols, George T., assignor of one-third to J. P. Walling, Gainesville, Tex. Automobile wheel rim. No. 1,423,354; July 18.
- Nichols, Harold W., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Selective receiving system. No. 1,420,055; June 20.
- Nichols, Harold W., Maplewood, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated, Radio transmission. No. 1,422,882; July 18.
- Nichols, Harry J., Washington, D. C. Pyrotechnic composition. No. 1,419,295; June 13.
- Nichols, Henry, New York, N. Y. Resilient wheel. No. 1,404,046; Jan. 17.
- Nichols, Henry, New York, N. Y. Wheel. No. 1,404,047; Jan. 17.
- Nichols, Holt, Rupert, Idaho. Manifold heater. No. 1,426,592; Aug. 22.
- Nichols, James S., S. T. Billingsly, and H. E. Scoggins, Atlanta, Ga. Wheel rim. No. 1,419,889; June 13.
- Nichols, John H., Oilfields, Calif. Oil-well pump. No. 1,417,764; May 30.
- Nichols, Leon W., and W. Leedy, Youngstown, Ohio. Ventilator. No. 1,412,063; Apr. 11.
- Nichols, Malcolm P., New Haven, Conn. Dirigible light projector. No. 1,416,119; May 16.
- Nichols, May H., Pomona, Calif. Building block for school purposes. No. 1,402,438; Jan. 3.
- Nichols, Royal B., East Lynn, Mass. Swimming board. No. 1,402,529; Jan. 3.
- Nichols, Samuel W., Edmonton, Alberta, Canada. Turbine. No. 1,405,551; Feb. 7.
- Nichols, Thomas M., Ashland, Ky. Crane. No. 1,434,623; Nov. 7.
- Nichols, Thomas M., Ashland, Ky. Hoisting means. No. 1,434,624; Nov. 7.
- Nichols, Walter S., Lowell, Ind. Rail joint. No. 1,435,019; Nov. 7.
- Nichols, Watt M., and R. L. Harding, Ranger, Tex. Steel-tank construction. No. 1,402,949; Jan. 10.
- Nichols, Wesley G., Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Recovering manganese steel. (Reissue.) No. 15,435; Aug. 22.
- Nichols, Wesley G., assignor to American Manganese Steel Company, Chicago, Ill. Heat treatment of manganese steel. No. 1,427,121; Aug. 29.
- Nichols, Wesley G., assignor to American Manganese Steel Company, Chicago, Ill. Inserted-center railway crossing. No. 1,427,122; Aug. 29.
- Nicholson, Eberhardt P. (See Roth, C. T., and Nicholson.)
- Nicholson, Floyd C., Buffalo, N. Y. Electric switching apparatus. No. 1,402,310; Jan. 3.
- Nicholson, Frank H., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,405,552; Feb. 7.
- Nicholson, George B., Pittsburgh, Pa. Multiple-chamber visible-flow oil pump. No. 1,424,176; Aug. 1.
- Nicholson, Henry A., Auckland, New Zealand. Construction of ships' hulls. No. 1,402,530; Jan. 3.
- Nicholson, John, deceased, by K. B. Nicholson, executrix, Houston, Tex., assignor to The Texas Company, New York, N. Y. Track-spraying apparatus. No. 1,419,686; June 13.
- Nicholson, Kate B., executrix. (See Nicholson, John.)
- Nicholson, Samuel D., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Producing phosphor metals. No. 1,425,679; Aug. 15.
- Nicholson, Stanley W. (See Lawrence, J. D., and Nicholson.)
- Nicholson, Stanley W., assignor to Dura Mechanical Hardware Company, Toledo, Ohio. Window construction. No. 1,404,048; Jan. 17.
- Nicholson, Stanley W., assignor to Dura Mechanical Hardware Company, Toledo, Ohio. Window-controlling mechanism. No. 1,412,569; Apr. 11.
- Nicholson, Stanley W., assignor to Dura Mechanical Hardware Company, Toledo, Ohio. Vehicle window-control mechanism. No. 1,414,523; May 2.
- Nicholson, Stanley W., assignor to The Dura Company, Toledo, Ohio. Window-control mechanism. No. 1,439,751; Dec. 26.
- Nicholson, Stanley W., assignor to The Dura Company, Toledo, Ohio. Window-controlling device. No. 1,440,025; Dec. 26.
- Nicholson, Thomas G., Chicago, Ill. Floor construction. No. 1,427,625; Aug. 29.
- Nicholson, W. H., & Co. (See Beiswinger, W. C., and Morgan, assignors.)
- Nichterlein, Paul, assignor to Firm Carl Zeiss, Jena, Germany. Optical square. No. 1,430,316; Sept. 26.
- Nick, Peter, Los Angeles, Calif. Dilator combination. No. 1,428,653; Sept. 12.
- Nickerson, Ahira S., Westport, Mass. Resilient wheel. No. 1,414,093; Apr. 25.
- Nickerson, Arthur S., Whitinsville, Mass. Device for enriching milk. No. 1,412,415; Apr. 11.
- Nickerson, William E., Cambridge, assignor to Gillette Safety Razor Company, Boston, Mass. Blade-sharpening machine. No. 1,427,163; Aug. 29.
- Nickl, Josef, assignor to Waffenfabrik Mauser Aktiengesellschaft, Oberndorf-on-the-Neckar, Germany. Recoil loading pistol. No. 1,413,184; Apr. 18.
- Nickl, Josef, assignor to Waffenfabrik Mauser Aktiengesellschaft, Oberndorf-on-the-Neckar, Germany. Recoil-loading pistol. No. 1,413,185; Apr. 18.
- Nickl, Josef, assignor to Waffenfabrik Mauser, Aktiengesellschaft, Oberndorf-on-the-Neckar, Germany. Recoil-loading pistol. No. 1,427,966; Sept. 5.
- Nickl, Josef, assignor to Waffenfabrik Mauser, Aktiengesellschaft, Oberndorf-on-the-Neckar, Germany. Recoil-loading pistol. No. 1,427,967; Sept. 5.
- Nickol, Frederick C., assignor to City Machine & Tool Works, Dayton, Ohio. Machine for building laminated armature cores and the like. No. 1,426,759; Aug. 22.
- Nickol, Frederick C., assignor to City Machine & Tool Works, Dayton, Ohio. Machine for blanking and assembling disks. No. 1,426,760; Aug. 22.
- Nicol, Edward W. L., Forest Hill, London, England. Blotting attachment for penholders. No. 1,405,550; Feb. 7.
- Nicks, Ira G., Denver, Colo. Mechanical toy. No. 1,437,990; Dec. 5.
- Nickum, George S., Glendale, Calif. Braking device. No. 1,433,220; Oct. 24.
- Nickum, Walter D., Glendale, Calif. Electrolytic apparatus and depolarizing the same. No. 1,428,049; Sept. 5.
- Nickum, Walter D., Glendale, Calif. Electrolytic apparatus and depolarizing the same. No. 1,428,050; Sept. 5.
- Nicola, Peter, Danville, Pa. Artificial arm. No. 1,422,468; July 11.
- Nicolai, Charles O., New York, N. Y. Can-opening machine. No. 1,405,066; Jan. 31.
- Nicolai, Edward F. (See Hawxhurst, J. J., Jr., and Nicolai.)
- Nicolai, Henry J. (See Remmen, J. B., and Nicolai.)
- Nicolaus, Frederic G., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Oven burner. No. 1,416,500; May 16.
- Nicolaus, Frederic G., and J. Roy, Cleveland, Ohio, assignors to American Stove Company, St. Louis, Mo. Combined gas and coal range. No. 1,420,495; June 20.

Alphabetical list of patentees—Continued.

- Nicoll, Herbert. (See Gibson, R. E., and Nicoll.)
 Nicols, William L., Tuscumbia, Ala. Hand-propelled vehicle. No. 1,415,259; May 9.
 Nicolson, Alexander M., assignor to Western Electric Company, Incorporated, New York, N. Y. Making piezoelectrical crystals. No. 1,414,370; May 2.
 Nicolson, Alexander M., Hilledale, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Piezo-electric device and producing the same. No. 1,438,965; Dec. 19.
 Nicolussi, Charles. (See Nicolussi, Engelbert, assignor.)
 Nicolussi, Engelbert. (See Fial, Wojciech, assignor.)
 Nicolussi, Engelbert, Glendive, Mont., assignor of one-half to C. Nicolussi, Chicago, Ill. Culinary implement. No. 1,428,703; Sept. 12.
 Niederberger, Otto. (See Kuebler, E., and Niederberger.)
 Niedermayer, George, assignor to The Tell Machine & Tool Co., Cleveland, Ohio. Expansible reamer. No. 1,429,045; Sept. 12.
 Nield, Douglas. (See Carradus, T. W., and Nield.)
 Niell, Magnus, Stockholm, Sweden. Camera. No. 1,410,029; Mar. 21.
 Niell, Magnus, Stockholm, Sweden. Photographic-roll-film spool. No. 1,423,355; July 18.
 Nielsen, Bertel A., Kvissel, Denmark. Apparatus for displaying light advertisements. No. 1,407,564; Feb. 21.
 Nielsen, Carl, Minneapolis, Minn., assignor, by mesne assignments, to O. C. Hansen Manufacturing Company, Milwaukee, Wis. Feeding and gathering mechanism for sewing machines. No. 1,432,084; Oct. 17.
 Nielsen, Charles I. J., Philadelphia, Pa. Vegetable cutter. No. 1,432,892; Oct. 24.
 Nielsen, Chris, Ruthven, Iowa. Farm gate. No. 1,425,411; Aug. 8.
 Nielsen, Christen, Copenhagen, Denmark. Splash screen for automobiles. No. 1,432,724; Oct. 17.
 Nielsen, Daisy D., Los Angeles, Calif. Hair curler. No. 1,408,131; Feb. 28.
 Nielsen, Eilius, Vejle, Denmark. Bed or the like. No. 1,429,759; Sept. 19.
 Nielsen, Hans H., Kolding, Denmark. Motor. No. 1,424,585; Aug. 1.
 Nielsen, Henry O., Tremonton, Utah. Permutation padlock. No. 1,408,771; Mar. 7.
 Nielsen, Henry O., Tremonton, Utah. Permutation lock. No. 1,408,772; Mar. 7.
 Nielsen, Jens P., Chicago, Ill. Pencil clip. No. 1,407,474; Feb. 21.
 Nielsen, Jens W., C. H. Hansen, Chicago, Ill., and T. Christoffersen, South Bethlehem, Pa. Scraper. No. 1,411,452; Apr. 4.
 Nielsen, Niels, Pittsburg, Calif. Indicating mechanism for rotary helical cookers. No. 1,406,213; Feb. 14.
 Nielsen, Niels C., and A. Althuo, Copenhagen, Denmark. Cork-cutting machine. No. 1,403,097; Jan. 10.
 Nielsen, Niels D., Elyria, Ohio. Carburizing materials. No. 1,405,553; Feb. 7.
 Nielsen, Niels, D., Elyria, Ohio. Carburizing material. No. 1,416,501; May 16.
 Nielsen, Niels J., Aarhus, Denmark. Milk can for transport. No. 1,439,834; Dec. 26.
 Nielsen, Peter J., Philadelphia, Pa. Boom winch. No. 1,411,295; Apr. 4.
 Nielsen, Simon. (See Turk, W. F., and Nielsen.)
 Nielson, Albert W. (See Jones, A. G., and Nielson.)
 Niemeyer, Alvin D., Denison, Tex. Tray-supporting device. No. 1,436,601; Nov. 21.
 Niemuth, Joseph F., Ramsay, Mich. Desk. No. 1,430,405; Sept. 26.
 Nienhold, Johannes, Berlin, Germany. Vacuum rectifier. No. 1,434,310; Oct. 31.
 Nieradka, John, Detroit, Mich. Combination wrench and pipe cutter. No. 1,402,311; Jan. 3.
 Nierzwicki, Dominik, J. (See Werner, E., and Nierzwicki.)
 Nies, John D., St. Charles, assignor to Kimble Electric Company, Chicago, Ill. Brush mounting. No. 1,428,342; Sept. 5.
 Nieschang, Charles C. F., Fort Wayne, Ind. Automobile bumper. No. 1,410,343; Mar. 21.
 Niesen, Edward, Iron Mountain, Mo. Table. No. 1,419,978; June 20.
 Niesner, John E. (See Eichensehr, G. C., and Niesner.)
 Niess-Waner, Edwin G., Pittsburgh, Pa. Vehicle tire. No. 1,436,672; Nov. 28.
 Niewiarowski, Piotr, and T. Halagarda, Omaha, Nebr. Direction indicator. No. 1,409,883; Mar. 14.
 Nigh, Omar I., Washington, D. C. Signal light for automobiles. No. 1,415,465; May 9.
 Nightingale, Alvin E., Cedarville, Mass. Seed drill. No. 1,419,296; June 13.
 Nightingale, Alvin E., Cedarville, Mass. Furrow opener or drill tooth. No. 1,431,247; Oct. 10.
 Nightingale, Donald A. (See Bader, W., and Nightingale.)
 Nightlinger, Benjamin F., Sr., Duluth, Minn. Wrench. No. 1,412,702; Apr. 11.
 Nihon Denki Kogijo Kabushiki Kaisha. (See Yanai, Teizo, assignor.)
 Nihon Kokwan Shaft Kabushiki Kwaisha. (See Okano, Sotaro, assignor.)
 Nihoul, Armand. (See Clerc, Camille, assignor.)
 Nikola, George J., Chicago, Ill. Protected fabric. No. 1,429,295; Sept. 19.
 Nikonow, John P., New York, N. Y. Sounding device. No. 1,406,482; Feb. 14.
 Nilan, Thomas. (See Dooley, J. J., and Nilan.)
 Nileon, Richard D., Bell, Pa. Rope ladder construction. No. 1,424,115; July 25.
 Niles-Bement-Pond Company. (See Blood, Harold L., assignor.)
 Niles-Bement-Pond Company. (See Cullen, J. K., and Sears, assignors.)
 Niles-Bement-Pond Company. (See Cullen, James K., assignor.)
 Niles-Bement-Pond Company. (See Greenleaf, G. E., and Randolph, assignors.)
 Niles-Bement-Pond Company. (See Parkes, Albert W., assignor.)
 Niles-Bement-Pond Company. (See Pyle, Lewis M., assignor.)
 Niles-Bement-Pond Company. (See Sears, W. T., and Jager, assignors.)
 Niles-Bement-Pond Company. (See Sears, Willard T., assignor.)
 Niles, Glenn H., Ridgefield Park, N. J., assignor to The Improved Equipment Company, New York, N. Y. Retort bench and operating the same. No. 1,438,258; Dec. 12.
 Nilson, A. H., Machine Co., The. (See Nilson, Axel H., assignor.)
 Nilson, A. H., Machine Co., The. (See Olson, Mauritz, assignor.)
 Nilson, Andrew, assignor to Eureka Smokeless Furnace Co., Chicago, Ill. Furnace. No. 1,434,140; Oct. 31.
 Nilson, Axel H., assignor to The A. H. Nilson Machine Co., Bridgeport, Conn. Wire straightener. No. 1,414,371; May 2.
 Nilson, Carl E. J., Stockholm, Sweden. Gearing. No. 1,432,609; Oct. 17.
 Nilson, Carl E. J., Stockholm, Sweden. Time recorder with movable card holder. No. 1,434,311; Oct. 31.
 Nilson, Harold and L., Wayzata, Minn. Transmission casing for traction machines. No. 1,415,606; May 9.
 Nilson, Harold and L., Wayzata, Minn. Traction machine. No. 1,430,835; Oct. 3.
 Nilson, John L., and J. Prince, Chicago, Ill. Air pump. No. 1,404,470; Jan. 24.
 Nilson, Leonard. (See Nilson, Harold and L.)
 Nilson, Leonard, Wayzata, Minn. Tractor. No. 1,424,177; Aug. 1.
 Nilson, Nils, Salt Lake City, Utah. Water heater. No. 1,430,466; Sept. 26.
 Nilson, Oliver C., Carthage, Mo. Corner clamp for concrete forms. No. 1,408,021; Feb. 28.
 Nilsson, Carl J., Cambridge, Mass. Ice-cream cabinet. No. 1,424,373; Aug. 1.
 Nilsson, Elizabeth, et al. (See Weeden, Arthur W., assignor.)
 Nilsson, Hjalmar, Hammond, Ind., assignor, by mesne assignments, to Continental Transport Company, Chicago, Ill. Sled. No. 1,405,858; Feb. 7.
 Nilsson, Holger A. E., Hammarby, Storvik, Sweden. Evaporating liquids generating acid vapors. No. 1,440,026; Dec. 26.
 Nilsson, Lilly N., et al. (See Weeden, Arthur W., assignor.)
 Nilsson, Nils A. H. (See Avander, F. A., Nilsson, and Ekman.)
 Nilsson, Oscar F., New York, N. Y. Garment fastener. No. 1,404,471; Jan. 24.
 Nimz, William E. (See Rumpf, M., and Nimz.)
 Nipper, William R., Grants Pass, Ore. Fruit-jar cover. No. 1,422,883; July 15.
 Nisewanger, Jacob F., Tranquillity, Calif. Differential for vehicles. No. 1,418,452; June 6.
 Nishizawa, Yushichi. (See Shibata, Y., and Nishizawa.)
 Nisle, Hertha J., Chicago, Ill. Cradle. No. 1,420,134; June 20.
 Nissen, Eugene F., Alameda, Calif. Safety envelope. No. 1,407,212; Feb. 21.
 Nissrod, John W., Jacksonville, Fla. Stump puller. No. 1,420,736; June 27.
 Nitch, Frank O., Cleveland, Ohio. Boiler cleaner. No. 1,437,857; Dec. 5.
 Nitrogen Corporation, The. (See Arnold, E. E., and St. Clair, assignors.)
 Nitrogen Corporation, The. (See Clancy, John C., assignor.)
 Nitrogen Corporation, The. (See Nagelvoort, Adriaan, assignor.) (Reissue.)
 Nitrogen Corporation, The. (See St. Clair, Palmer, jr., assignor.)
 Nitsch, Charles H. (See Weightman, W. A., and Nitsch.)
 Nittel, Frederick W., assignor to M. S. Company, Attleboro, Mass. Making watch-chain swivels. No. 1,425,128; Aug. 8.
 Niven, William R., Boston, Mass. Elevator stop and lock. No. 1,409,016; Mar. 7.
 Niver, Raymond W., assignor to Thatcher Manufacturing Company, Elmira, N. Y. Leer feeder. No. 1,427,164; Aug. 29.
 Nix, J. M. (See Fletcher, Theodore, assignor.)
 Nixon, A. A. (See Kuffel, David C., assignor.)
 Nixon, Albion K., San Francisco, assignor of one-half to A. Casper, Vallejo, Calif. Caster. No. 1,428,899; Sept. 12.

Alphabetical list of patentees—Continued.

- Nixon, George C., Detroit, Mich., and F. C. Raab, Syracuse, N. Y. Hardening metal articles. No. 1,415,260; May 9.
- Nixon, George C., and F. C. Raab, Syracuse, N. Y. Case-hardening articles. No. 1,415,261; May 9.
- Nixon, Jeddy D., Oklahoma, Okla. Apparatus for pumping oil. No. 1,412,886; Apr. 18.
- Nixon, Jeddy D., Houston, Tex. Windshield. No. 1,436,816; Nov. 28.
- Nixon, John B., Butler, Pa. Combined mill and display device. No. 1,405,318; Jan. 31.
- Nixon Nitration Works. (See Schuster, Charles, assignor.)
- No. 2 D. R. Cotton Mills, Limited. (See Andrew, Thomas, assignor.)
- Noack, Carl O., Stamford, Conn. Folding typewriter. No. 1,403,810; Jan. 17.
- Noack, Carl O., Stamford, Conn., assignor to The Hammond Typewriter Company. Folding typewriter. No. 1,433,641; Oct. 31.
- Noack, William A., Alameda, assignor of one-half to Murphy Door Bed Company, San Francisco, Calif. Disappearing structure. No. 1,412,367; Apr. 11.
- Nobby Manufacturing Company. (See Mudd, Melbourne M., assignor.)
- Noble, Arnold J., Sudbury, Ontario, Canada. Rail-joint plates. No. 1,434,403; Nov. 7.
- Noble, Charles H., Bad Axe, Mich. Automobile signal. No. 1,424,374; Aug. 1.
- Noble, Donald, Bridgeport, Conn. Gear-shifting mechanism. No. 1,404,049; Jan. 17.
- Noble, Donald, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Paper-feeding mechanism. No. 1,424,116; July 25.
- Noble, Donald, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Perforating machine. No. 1,425,041; Aug. 8.
- Noble, Donald, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Stop motion for perforating machines. No. 1,429,447; Sept. 19.
- Noble, Eldridge H., deceased, Waukegan, Ill., W. J. Smith, administrator. Oil can. No. 1,423,503; July 18.
- Nobbs, George H., Watertown, Mass. Tractor. No. 1,406,754; Feb. 14.
- Nobbs, George H., Watertown, Mass. Internal-combustion engine. No. 1,418,668; June 6.
- Noble, Harry G., Toledo, Ohio. Oil cup. No. 1,429,448; Sept. 19.
- Noble, Herbert, Boston, Mass. Automatic printing and recording mechanism for scales. No. 1,433,470; Oct. 24.
- Noble, Howard C., assignor to North & Judd Manufacturing Company, New Britain, Conn. Antirattler for window sashes. No. 1,406,409; Feb. 14.
- Noble, Paul O., Schenectady, N. Y., assignor to General Electric Company. Electric arc welding. No. 1,439,972; Dec. 26.
- Noble, Thomas, Quathiaski Cove, British Columbia, Canada. Pump. No. 1,430,923; Oct. 3.
- Noble, Warren, Providence, assignor to Tubular Woven Fabric Company, Pawtucket, R. I. Valve and nozzle. No. 1,403,056; Jan. 10.
- Noblette, Bert, Winchester, Ky. Antislipping sandal. No. 1,408,388; Feb. 28.
- Nobs, Frederick W., et al. (See Dennis, Howard B., assignor.)
- Noda, Yukichi, San Francisco, Calif. Flower stand. No. 1,431,679; Oct. 10.
- Noel, James M., Hannibal, Mo. Parcel-post container. No. 1,440,233; Dec. 26.
- Noé, Samuel B., Ocean Grove, N. J. Maximum-pressure inflating valve and gauge. No. 1,423,447; July 18.
- Noe, Walter E., New York, N. Y. Pencil. No. 1,427,409; Aug. 29.
- Noe, Walter R., New York, N. Y. Hairpin. No. 1,434,961; Nov. 7.
- Noe, William H., Montrose, N. Y. Fermenting tank. No. 1,402,248; Jan. 3.
- Noel, Celest J., Detroit, and K. K. Hicks, assignors to K. E. Wicks, trustee, Grand Rapids, Mich. Motor-vehicle driving means. No. 1,426,902; Aug. 22.
- Noel, Clarence J., Orange Cove, Calif. Pump. No. 1,435,547; Nov. 14.
- Noel, John S., assignor to D. Devendorf, Grand Rapids, Mich. Kerosene burner. No. 1,430,105; Sept. 26.
- Noel, Raymond, Sr., Dubois, Pa. Baby walker. No. 1,419,890; June 13.
- Noelting, Clarence B. (See Noelting, William H., and C. B.)
- Noelting, William H., assignor to Faultless Caster Company, Evansville, Ind. Ball-bearing caster. No. 1,424,028; July 25.
- Noelting, William H., assignor to Faultless Caster Company, Evansville, Ind. Top-bearing-caster socket. No. 1,426,494; Aug. 22.
- Noelting, William H. and C. B., assignors to Faultless Caster Company, Evansville, Ind. Leg-mount caster. No. 1,414,150; Apr. 25.
- Notzli, Fred A., Oakland, Calif. Dam construction. No. 1,410,217; Mar. 21.
- No-Frez Silo Co. (See Boos, Casper M. B., assignor.)
- Noisger, Fred N. (See George, W. C., and Noisger.)
- Noisger, Charles F. (See Braley, Charles L., assignor.)
- Nogtzay, Andor T., Wichita, Kans. Differential gearing. No. 1,404,791; Jan. 31.
- Noiseless Typewriter Company, The. (See Going, George G., assignor.)
- Nojd, Andrew S. (See Mattson, John A., assignor.)
- Nolan, Bernard J. (See MacIntyre, Edwin J. G., assignor.)
- Nolan, Clyde, Elkhart, Ind., assignor of one-half to B. F. Winterhoff and one-half to American Steam Conveyor Corporation, Chicago, Ill. Self-opening bucket. No. 1,411,453; Apr. 4.
- Nolan, Clyde, assignor to American Steam Conveyor Corporation, Chicago, Ill. Self-opening bucket. No. 1,411,454; Apr. 4.
- Nolan, Clyde, assignor of one-half to B. F. Winterhoff, Elkhart, Ind. Windmill. No. 1,416,052; May 16.
- Nolan, Harry L., Maplewood, Mo. Pump for oil wells. No. 1,402,950; Jan. 10.
- Nolan, Peter J., Chester, Pa. Transom attachment. No. 1,417,626; May 30.
- Nolan, Thomas C. (See Potter, L. D., and Nolan.)
- Nolan, William E., Wilkinsburg, Pa. Transformation. No. 1,424,845; Aug. 8.
- Nolde & Horst Co., The. (See Robinson, Frank W., assignor.)
- Nolen, James G., New York, N. Y. Radiator alarm. No. 1,408,022; Feb. 28.
- Noil, George L., Madison, N. J. Antifriction skid. No. 1,421,540; July 4.
- Nolte, Frederick J., New York, N. Y. Device for holding pencils or other writing instruments. No. 1,410,589; Mar. 28.
- Nolte, John J., San Francisco, Calif. Revolving pan rack. No. 1,430,748; Oct. 3.
- Nolting, Charles E., Little Rock, Ark. Automobile radiator support. No. 1,432,725; Oct. 17.
- Nolting, Philip H., St. Louis, Mo. Shirt. No. 1,417,101; May 23.
- Nolty, Lewis, Lancaster, Pa. Folding table. No. 1,421,541; July 4.
- Nonnemacher, Clyde S., Wenonah, N. J. Strap fastener. No. 1,421,813; July 4.
- Nonnemacher, Clyde S., Wenonah, N. J. Strap fastener. No. 1,421,814; July 4.
- Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Diestock. No. 1,404,996; Jan. 31.
- Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Diestock. No. 1,404,997; Jan. 31.
- Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Diestock. No. 1,418,323; June 6.
- Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Diestock. No. 1,422,222; July 11.
- Nonnenmann, Adolf, New York, N. Y. Pin. No. 1,422,607; July 11.
- Nonsuch, Sciota A., Philadelphia, Pa. Appliance for finishing crank pins. No. 1,412,887; Apr. 18.
- Noonan, Albert S., assignor to Foss-Hughes Company, Philadelphia, Pa. Bumper for motor vehicles. No. 1,435,728; Nov. 14.
- Norall, Carl A., Los Angeles, Calif. Automatic fuel saver. No. 1,432,610; Oct. 17.
- Norballe, Hans J., and J. L. Lawson, Hertfordshire, England. Multiple contact electric switch. No. 1,404,884; Jan. 31.
- Norcross, Crandall U., assignor to Alaska Freezer Company, Winchendon, Mass. Power unit for driving ice-cream freezers and other appliances. No. 1,418,962; June 6.
- Nord, Carl V., Seattle, Wash. Lubricating device for automobiles. No. 1,422,608; July 11.
- Nordang, Peter. (See Johnson, O., and Nordang.)
- Nordberg, Bruno V., Milwaukee, Wis. Uniflow steam engine. No. 1,409,309; Mar. 14.
- Nordbo, Olaf, Malden, Mass. Winding and sharpening apparatus. No. 1,407,475; Feb. 21.
- Nordell, Carl H., assignor to J. Kenney, Chicago, Ill. Water softener. No. 1,410,712; Mar. 28.
- Norden, Carl S., Haverhill, Mass. Process and machine for making wetting. No. 1,407,294; Feb. 21.
- Norden, Carl S., Haverhill, Mass. Shoe-ripping machine. No. 1,410,590; Mar. 28.
- Norden, S., & Company. (See Norden, Svan, assignor.)
- Norden, Svan, Cranston, assignor to S. Norden & Company, Providence, R. I. Forming and affixing tips to corset and shoe laces. No. 1,412,086; Apr. 11.
- Norden, Walter S., Big Rock, Tenn. Rim expanding and contracting tool. No. 1,428,052; Sept. 5.
- Nordfors, Conrad. (See Wood, H. A. W., and Nordfors.)
- Nordfors, Conrad, Jersey City, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Printing couple. No. 1,421,982; July 4.
- Nordfors, Conrad, Jersey City, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Machine for counting out and marking printed products. No. 1,421,983; July 4.
- Nordgren, Oscar R., Watertown, S. Dak. Combination ignition tester, spark intensifier, and grounding device. No. 1,432,118; Oct. 17.
- Nordin, Ernst F., Gottenborg, Sweden. Cylinder lock. No. 1,432,353; Oct. 17.
- Nordin, Herbert O. N., Chicago, Ill. Film marker. No. 1,411,370; Apr. 4.
- Nordin, Josef A., assignor to Aktiebolaget Stille-Werner, Stockholm, Sweden. Feed device for meat-slicing machines. No. 1,438,459; Dec. 12.

Alphabetical list of patentees—Continued.

- Nordin, Petrus L., Minneapolis, Minn. Hand stamp. No. 1,408,389; Feb. 28.
- Nordiska Kullager Aktiebolaget. (See Leon, Karl O., assignor.)
- Nordiska Kullager Aktiebolaget. (See Lindman, Konrad W., assignor.)
- Nordiska Kullager Aktiebolaget. (See Svenning, Robert W., assignor.)
- Nordiska Kullager Aktiebolaget. (See Weibull, Ernst H. W., assignor.)
- Nordiska Nav Aktiebolaget. (See Enstrom, E., and Hilding, assignors.)
- Nordlum, Carl J., Minneapolis, Minn. Wagon-loading machine. No. 1,409,399; Mar. 14.
- Nordlund, August, Evanston, Ill. Forming pipe unions. No. 1,408,890; Feb. 28.
- Nordmark, Henry P., Grand Rapids, assignor of one-half to F. I. Chichester, Allegan, Mich. Transfer mechanism for registers. No. 1,428,607; Sept. 12.
- Nordmark, Herman, assignor of one-half to T. J. Johnson, Chicago, Ill. Toy. No. 1,415,682; May 9.
- Nordnes, John L., Waukesha, Wis. Fender for motor vehicles. No. 1,407,881; Feb. 28.
- Nordstedt, Einar A., Joliet, Ill. Dimmer. No. 1,434,404; Nov. 7.
- Nordstrom, Elof, Newark, N. J., assignor, by mesne assignments, to American Dan Bottle Seal Corporation. Stamping mechanism. No. 1,426,000; Aug. 15.
- Nordstrom, John P., Brooklyn, assignor of one-third to A. N. Spooner and one-third to D. M. Tulloch, New York, N. Y. Pile. No. 1,429,964; Sept. 26.
- Nordström, Ott, Matfors, and A. Mörc, Sundsvall, Sweden. Means for continuous predrying of fuel. No. 1,423,728; July 25.
- Nordyke, Addison H., assignor to Indianapolis Manufacturing Company, Indianapolis, Ind. Supporting means for strips of veneer and the like. No. 1,418,014; May 30.
- Nordyke, Horace W., assignor to Indianapolis Manufacturing Company, Indianapolis, Ind. Process of treating separators for storage batteries. No. 1,415,683; May 9.
- Nordyke & Marmon Company. (See Ziegler, Leslie I., assignor.)
- Norehus, Emil F., Minneapolis, Minn. Truck for vehicles. No. 1,419,510; June 13.
- Norelius, Emil F., Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Gun-mount brake. No. 1,429,40; Sept. 19.
- Norelius, Emil F., Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Main frame and suspension for tractors. No. 1,429,449; Sept. 19.
- Norgaard, Elmer E. (See Ingraham, J., and Norgaard.)
- Norgren, Gustavus, Centerville, S. D. Corn-husking machine. No. 1,422,609; July 11.
- Norgren, Oscar B. (See Schmidt, C. H., and Norgren.)
- Norgren, Oscar B. (See Warn, C. A., and Norgren.)
- Norlander, Charles A., assignor of one-half to C. E. Davidson, Greenville, Ill. Carburetor. No. 1,423,579; July 25.
- Norling, Reinhold A., Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Switch handle. No. 1,434,660; Nov. 7.
- Norma Company of America, The. (See Mueller, Frederick E., assignor.)
- Norma Company of America, The. (See Schmidt, Hermann, assignor.)
- Norman, Carl C., Chicago, Ill. Sandpapering machine. No. 1,406,275; Feb. 14.
- Norman, Edward R., Chicago, Ill. Packing ring. No. 1,428,654; Sept. 12.
- Norman, George, assignor to B. S. A. Guns Limited, Birmingham, England. Projectile for line-throwing guns. No. 1,418,963; June 6.
- Norman, George, assignor to B. S. A. Guns Limited, Birmingham, England. Line-throwing apparatus. No. 1,418,964; June 6.
- Norman, Gustav, Aberdeen, Wash. Clasp. No. 1,410,950; Mar. 28.
- Norman, William, Weston-super-Mare, England. Trouser support and the like. No. 1,403,974; Jan. 17.
- Norman, William, Padroni, Colo. Towel holder. No. 1,426,495; Aug. 22.
- Normand, Henry S. (See Smith, O. L., and Normand.)
- Normand, Henry S., Waterbury, Conn., assignor to Consolidated American Fastener Companies, Inc., New York, N. Y. Machine for making snap fasteners. No. 1,429,088; Sept. 12.
- Normandin, Levi P., Highland Park, Mich. Plow. No. 1,403,618; Jan. 17.
- Normandy, Charles O., Malden, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for mounting shoes on lasts. No. 1,430,025; Sept. 26.
- Normoyle, Daniel J., et al. (See Parsons, John H., assignor.)
- Norquist, Clyde L., Jamestown, N. Y. Gentleman's dressing case and desk. No. 1,410,713; Mar. 28.
- Norquist, Lester E., Denver, Colo. Face-illuminating razor. No. 1,429,760; Sept. 19.
- Norrie, James, Quincy, Mass. Mangle. No. 1,415,262; May 9.
- Norris, Allister-Ball, Company. (See Miller, Edwin H., assignor.)
- Norris, Almon E., Brookline, Mass. Hoisting apparatus. No. 1,419,167; June 13.
- Norris, Almon E., Brookline, Mass. Winch system for vehicles. No. 1,433,091; Oct. 24.
- Norris, Almon E., Brookline, Mass., and J. Ecks, Milwaukee, Wis., assignors to The Mead-Morrison Manufacturing Company, East Boston, Mass. Door. No. 1,406,214; Feb. 14.
- Norris, David I., Middlebranch, and L. A. Johnston, North Canton, Ohio. Sheaf elevator. No. 1,402,787; Jan. 10.
- Norris, Edwin V., West Seneca, N. Y. Garment supporter. No. 1,428,250; Sept. 5.
- Norris, Elmer B., Buffalo, N. Y. Method and apparatus for conveying molding flasks. No. 1,431,248; Oct. 10.
- Norris, Frederick J., Fall River, assignor to Draper Corporation, Hopedale, Mass. Leno or cross-weaving loom. No. 1,416,410; May 16.
- Norris, Hallie, Pittsburgh, Pa. Spring oiler. No. 1,415,263; May 9.
- Norris, Harvey O., Dayton, Ohio. Paint sprayer. No. 1,427,495; Aug. 29.
- Norris, Henry M., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Center-drain turntable. No. 1,426,496; Aug. 22.
- Norris, John J., Suttons Bay, Mich. Spark plug. No. 1,403,441; Jan. 10.
- Norris, John O., Pittsburg, Kans. Safety lever switch lock. No. 1,428,800; Sept. 12.
- Norris, Lewis W., Oakland, Calif. Well-boring device. No. 1,427,410; Aug. 29.
- Norris, Paul E. (See Cook, T. R., and Norris.)
- Norris, Paul E., Wilkinsburg, assignor to Westinghouse Union Battery Company, Swissvale, Pa. Sealing structure for storage-battery terminal posts. No. 1,419,511; June 13.
- Norris, Paul E., Swissvale, Pa., and C. H. Witmer, Niagara Falls, N. Y., assignors to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Battery-plate-finishing machine. No. 1,404,050; Jan. 17.
- Norsk Hydro-Elektrisk Kvaestofaktieselskab. (See Halvorsen, Birger F., assignor.)
- Norskog, Adolph G., Miles City, Mont. Grain-saving device. No. 1,415,684; May 9.
- North American Watch Company, Mansfield, Ohio. Watch-cases and watchcase guards. No. 1,58,511; Sept. 5.
- North British Rubber Company, The. (See Porritt, Benjamin D., assignor.)
- North British Rubber Company Limited. (See Johnston, Alexander, assignor.)
- North British Rubber Company Limited, The. (See Williams, William A., assignor.)
- North Bro's. Mfg. Co. (See Fegley, T. J., and Snyder, assignors.)
- North Bro's Mfg. Co. (See Leopold, George O., assignor.)
- North, Charles E., New York, N. Y. Extracting butter fat or oil from milk and cream. No. 1,416,053; May 16.
- North, Clarence L., El Paso, Tex. Manufacture of bricks. No. 1,440,234; Dec. 26.
- North Coast Dry-Kiln Company. (See Gilbreath, Victor G., assignor.)
- North Coast Dry-Kiln Company. (See Grondal, Bror L., assignor.)
- North, Dewey K., McCracken, Kans. Speed regulator for thrasher cylinders. No. 1,404,472; Jan. 24.
- North East Electric Company. (See Dorsey, Farnum F., assignor.)
- North East Electric Company. (See Halbleib, Edward A., assignor.)
- North East Electric Company. (See Hutchins, William H., assignor.)
- North East Electric Company. (See Lee, Thomas L., assignor.)
- North East Electric Company. (See Mix, Edwin S., assignor.)
- North East Electric Company. (See Schulz, C. G., and Croll, assignors.)
- North East Electric Company. (See Sullivan, Raymond H., assignor.)
- North, George H., Cranston, assignor to Gorham Manufacturing Company, Providence, R. I. Candle holder. No. 1,407,801; Feb. 28.
- North, Grace C. (See Cooper, Grace.)
- North, Paul, et al. (See Haber, Henry J., assignor.)
- North & Judd Manufacturing Company, The. (See Carpmill, J. F., and Troop, assignors.)
- North & Judd Manufacturing Company, The. (See Carpmill, John F., assignor.)
- North & Judd Manufacturing Company. (See Noble, Howard C., assignor.)
- Northcraft, Ambro J., St. Louis, Mo. Spool rack. No. 1,405,554; Feb. 7.
- Northern Equipment Company. (See Veenischoten, Vincent V., assignor.)
- Northern Trust Company, The, trustee. (See Lang, Lincoln A., assignor.)
- Northern Trust Company, The, et al., executors. (See Turner, Samuel J.)
- Northey, John P., Toronto, Ontario, Canada. Key bolt. No. 1,424,319; Aug. 1.
- Northey, John P., Toronto, Ontario, Canada. Key bolt. No. 1,439,635; Dec. 19.
- Northfield Iron Company. (See Brown, Chauncey L., assignor.)
- Northfield Iron Company. (See Compton, Glenn A., assignor.)

Alphabetical list of patentees—Continued.

- Northon, John, Clare, Mich. Road leveler. No. 1,428,973; Sept. 12.
- Northrop, Henry B., Beverly, Mass. Arch support for shoes. No. 1,437,991; Dec. 5.
- Northrop, John K., et al. (See Loughhead, Malcolm, assignor.)
- Northrop, Jonas, Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Loom-temple thread cutter. No. 1,421,815; July 4.
- Northrup, Elmer C., San Francisco, Calif. Box-nailing machine. No. 1,423,778; July 25.
- Northrup, Thomas A., Parkersburg, W. Va. Cable swivel. No. 1,413,487; Apr. 18.
- Northrup, William G., Toledo, Ohio. Tilting headlight. No. 1,437,542; Dec. 5.
- Northwest Blower Kiln Co. (See Mueller, Moritz L., assignor.)
- Northwest Engineering Company. (See Burke, Paul, assignor.)
- Northwestern Corporation, The. (See Bolen, Emerson A., assignor.)
- Northwestern Manufacturing Company. (See Shallcross, Wilmer M., assignor.)
- Northwood, Joseph K., Washington, D. C. Dental impression cup. No. 1,411,503; Apr. 4.
- Nortier, Louis F. (See Ness, Harold, assignor.)
- Norton, A. O., Inc. (See Gormley, Frank L., assignor.)
- Norton, Charles E. (See McLaughlin, William, assignor.)
- Norton, Charles H., assignor to Norton Company, Worcester, Mass. Grinding-wheel-balancing device. No. 1,402,312; Jan. 3.
- Norton, Charles H., assignor to Norton Grinding Company, Worcester, Mass. Truck for waste material. (Reissue.) No. 15,356; May 16.
- Norton, Charles H., assignor to Norton Company, Worcester, Mass. Cross-feed mechanism for machine tools. No. 1,416,054; May 16.
- Norton, Charles H., assignor to Norton Company, Worcester, Mass. Machine for forming rolls. No. 1,419,073; June 6.
- Norton, Charles L., Boston, Mass., assignor to Refractories Machinery Manufacturing Company, Pittsburgh, Pa. Machine for molding brick shapes. No. 1,426,761; Aug. 22.
- Norton, Charles L., Newton, Mass., assignor to Refractories Machinery Manufacturing Company, Pittsburgh, Pa. Brick machine. No. 1,434,662; Nov. 7.
- Norton, Clarence T., Merrill, Iowa. Clutch-control lever. No. 1,430,317; Sept. 26.
- Norton Company. (See Alden, George I., assignor.)
- Norton Company. (See Beecher, Milton F., assignor.)
- Norton Company. (See Chapman, William H., assignor.)
- Norton Company. (See Dunbar, H. W., and Turner, assignors.)
- Norton Company. (See Fraser, Warren F., assignor.)
- Norton Company. (See Jeppson, George N., assignor.)
- Norton Company. (See Katzenstein, Leon L., assignor.)
- Norton Company. (See Norton, Charles H., assignor.)
- Norton Company. (See Turner, A., and Dunbar, assignors.)
- Norton, David G., and A. Durot, Manchester, England, assignors to Sir James Farmer & Sons Limited, Salford, Manchester, England. Cloth-piling machine. No. 1,418,199; May 30.
- Norton, Elisha S., Aspinwall, Pa. Necktie press. No. 1,435,729; Nov. 14.
- Norton, Frank L., St. Louis, Mo. Concrete mixing and distributing apparatus. No. 1,410,030; Mar. 21.
- Norton, Fred E., assignor to Jefferies-Norton Corporation, Worcester, Mass. Refrigerating apparatus. No. 1,418,015; May 30.
- Norton, Frederick H., Langley Field, Va. Art of and apparatus for making figured surfaces. No. 1,410,591; Mar. 28.
- Norton, George F., and E. A. Ende, Mayville, Wis. Corn-snapping mechanism for silo fillers. No. 1,423,138; July 18.
- Norton Grinding Company. (See Norton, Charles H., assignor.) (Reissue.)
- Norton Iron Works. (See Alexander, True, assignor.)
- Norton, Lewis C., Chicago, Ill. Rod packing for hydraulic doorchecks. No. 1,438,546; Dec. 12.
- Norton, Michael. (See Scholtz, J., and Norton.)
- Norton, Nathan A. (See Lahey, D. E., and Norton.)
- Norton, Richard, Sacramento, Calif. Potato peeling and cleaning machine. No. 1,436,519; Nov. 21.
- Norton, Theodor. (See Lange, M. E., and Norton.)
- Norton, Tom, Llandrindod Wells, Wales. Fence. No. 1,408,132; Feb. 28.
- Norton, William X., San Francisco, Calif. Lock bracket for spotlights. No. 1,431,139; Oct. 3.
- Norwalk Tire and Rubber Company, The. (See Converse, Francis B., assignor.)
- Norway Welt Shoe Corporation. (See Madson, Amos, assignor.)
- Norwood, Harry E., and F. G. Maier, assignors to Perfect Window Regulator Company, New York, N. Y. Window opening and closing mechanism. No. 1,439,373; Dec. 19.
- Norwood, Harry G., Baltimore, Md. Lock nut. No. 1,406,065; Feb. 7.
- Norwood, Harry Y., assignor to Taylor Instrument Cos., Rochester, N. Y. Valve mechanism. No. 1,425,412; Aug. 8.
- Norwood, John E., Baltimore, Md. Piston ring. No. 1,404,540; Jan. 24.
- Norzi, Ercole, Turin, assignor to Società Anonima "Aclastice," Vercelli, Italy. Manufacture of articles of horny material. No. 1,421,095; June 27.
- Nossack, Kurt, assignor to Firm P. Stauss & H. Ruff, Cottbus, Germany. Device for making reinforcing web. No. 1,440,027; Dec. 26.
- Notman, Robert L., Springfield, Mass., assignor to The Militor Corporation, New York, N. Y. Motor-cycle frame. No. 1,420,638; June 27.
- Nott, George, Swansea, England. Acetylene-gas generator. No. 1,414,329; Apr. 25.
- Nott, John A., assignor, by mesne assignments, of one-half to I. Krupnick, Chicago, Ill. Sliding support for typewriters. No. 1,426,762; Aug. 22.
- Nott, William J., West Croydon, South Australia. Pump valve. No. 1,406,885; Feb. 14.
- Nottage, William H., Chelmsford, England, assignor to Radio Corporation of America. Radiosignaling apparatus. No. 1,432,354; Oct. 17.
- Nottingham, Edwin I., Washington, D. C. Tire carrier. No. 1,412,703; Apr. 11.
- Nouse, Edgar W., et al. (See Cress, Hurve L., jr., assignor.)
- Novak, Edward, Clarks, Nebr. Hog crate and holder. No. 1,436,897; Nov. 28.
- Novak, Joseph, Chicago, Ill. Toothbrush. No. 1,417,407; May 23.
- Novak, Leon, New York, N. Y. Scraping tool. No. 1,412,888; Apr. 18.
- Novelty Cup & Cone Company. (See Winder, Samuel E., assignor.)
- Novelty Patents Company, The. (See Bergens, William J., assignor.)
- Novick, Abraham, assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y. Process and mechanism for attaching strings to envelopes and the like. No. 1,402,008; Jan. 3.
- Novick, Abraham, assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y. Blank-locating device. No. 1,407,565; Feb. 21.
- Novick, Abraham, Brooklyn, assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y. Machine for making lined envelopes. No. 1,421,816; July 4.
- Novick, Abraham, Brooklyn, assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y. Creasing mechanism. No. 1,421,817; July 4.
- Novick, Abraham, assignor to F. L. Smithe Machine Co., Inc., New York, N. Y. Machine brake. No. 1,426,092; Aug. 15.
- Novick, Abraham, Brooklyn, assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y. Cylinder-adjusting device. No. 1,432,030; Oct. 17.
- Novick, Abraham, Brooklyn, assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y. Blank-feeding mechanism. No. 1,432,031; Oct. 17.
- Novick, Abraham, Brooklyn, assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y. Safety stop for blank pickers. No. 1,432,032; Oct. 17.
- Novick, Abraham, assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y. Safety device for envelope machines. No. 1,434,141; Oct. 31.
- Novick, Abraham, Brooklyn, and E. Fish, assignors to F. L. Smithe, New York, N. Y. Liquid-level gauge. No. 1,413,235; Apr. 18.
- Novick, Abraham, Brooklyn, and E. Fish, assignors to F. L. Smithe, New York, N. Y. Liquid-level indicator. (Reissue.) No. 15,447; Sept. 5.
- Novick, William, Brooklyn, N. Y. Bath appliance. No. 1,404,401; Jan. 24.
- Novitzky, Emil, Detroit, Mich. Adjustable shoe and boot tree. No. 1,406,276; Feb. 14.
- Novitzky, Emil, Detroit, Mich. Centering gauge for lathes. No. 1,414,483; May 2.
- Novitzky, Emil, Detroit, Mich. Frame fastener for beds or other articles. No. 1,419,297; June 13.
- Novo, Maurice L., Guadalupe, Calif. Cultivator. No. 1,426,665; Aug. 22.
- Novotny, Emil E., Logan, assignor to J. S. Stokes, Philadelphia, Pa. Manufacture of phonographic articles. No. 1,404,792; Jan. 31.
- Novotny, Emil E., assignor to John S. Stokes, Philadelphia, Pa. Manufacture of printing-plate matrices. No. 1,410,031; Mar. 21.
- Novotny, Emil E., Logan, Pa., assignor to J. S. Stokes, Philadelphia, Pa. Sound record. No. 1,440,097; Dec. 26.
- Nowak, Alois K. (See Irish, W. E., and Nowak.)
- Nowak, Walter, Buffalo, N. Y. Safety razor. No. 1,403,562; Jan. 17.
- Nowakowski, Albert J. (See Pedersen, S. C., and Nowakowski.)
- Nowlan, John B., assignor of two-thirds to S. Bitterman, Denver, Colo. Radio apparatus. No. 1,437,772; Dec. 5.
- Noyes, Arthur A., Boston, Mass., and C. L. Burdick, Sheffield, Ala. Treating gas mixtures containing nitrogen oxides. No. 1,433,969; Oct. 31.
- Noyes, Charles H., Mondamin, Iowa. Wrench. No. 1,424,178; Aug. 1.

- Noyes, Thomas S. (See Wyatt, Kirke K., assignor.)
 Noyes, William S., Chicago, Ill. Reducing-valve apparatus. No. 1,424,846; Aug. 8.
 Nuckolls, Stephen F., Bingham, Utah. Computer. No. 1,436,282; Nov. 21.
 Nuerwell, Fred W. (See Stephenson, J. G., and Nuerwell.)
 Nuerwell, Fred W., Tulsa, Okla. Connecting-rod gauge and straightener. No. 1,408,023; Feb. 28.
 Nuerwell, Fred W., Tulsa, Okla. Axle gauge. No. 1,408,024; Feb. 28.
 Nuesse, Gustav C., Hibbing, Minn. Loader. No. 1,416,118; May 16.
 Nugent, Edwin T., assignor, by mesne assignments, to The Measuregraph Company, St. Louis, Mo. Fabric guide for measuring machines. No. 1,409,567; Mar. 14.
 Nunamaker, Henry S., Cleveland, Ohio. Drafting machine. No. 1,436,673; Nov. 28.
 Nunn, Cora R. (See Kriehoff, Antou, assignor.)
 Nusbaum, George W., et al. (See Nusbaum, Wilbur J., assignor.)
 Nusbaum, George W., Takoma Park, Md. Percussion firing mechanism. No. 1,415,044; May 9.
 Nusbaum, Wilbur J., Washington, D. C., assignor of one-third to G. W. Nusbaum, Takoma Park, Md., and one-third to R. L. Baxter, Washington, D. C. Automobile tool. No. 1,424,514; Aug. 1.
 Nussim, Melach J., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Constant-volume regulator for turbocompressors. No. 1,408,710; Mar. 7.
 Nussim, Melach J., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Impeller. No. 1,437,609; Dec. 5.
 Nussim, Melach J., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Impeller. No. 1,437,610; Dec. 5.
 Nuss, George F., Chicago, Ill. Oil arrester for spark plugs. No. 1,411,296; Apr. 4.
 Nuss, George H., deceased, Cincinnati, Ohio, and C. F. Heckel, Newport, Ky.; I. R. Nuss, executrix. Starch buck. No. 1,405,067; Jan. 31.
 Nuss, George H., deceased, Cincinnati, Ohio, and C. F. Heckel, Newport, Ky.; I. R. Nuss, executrix. Tray filling and leveling mechanism. No. 1,405,068; Jan. 31.
 Nuss, Isabel R., executrix. (See Nuss, G. H., and Heckel.)
 Nuta, Meyer, Chicago, Ill. Internal-combustion engine. No. 1,406,886; Feb. 14.
 Nutbrown, Charles E. (See Clements, C., Swart, and Nutbrown.)
 Nutini, Adolfo, Verona, Italy. Gear wheel. No. 1,425,042; Aug. 8.
 Nutt, Buell W., assignor to The Strong, Kennard and Nutt Company, Cleveland, Ohio. Legging. No. 1,426,593; Aug. 22.
 Nuttall, R. D., Company. (See Keim, Lester H., assignor.)
 Nuttall, R. D., Company. (See Moore, William E., assignor.)
 Nutter, Harry A., Seymour, Ind. Expansion-socket wrench. No. 1,438,391; Dec. 12.
 Nutter, Karl I., Martinsville, Ind. Demountable wheel rim. No. 1,421,096; June 27.
 Nutting, William B., Gervais, Ore. Measuring device. No. 1,413,767; Apr. 25.
 Nutting, William B., Cortland, Ore. Spark arrester. No. 1,416,968; May 23.
 Ny, Jules A., Berkeley, Calif. Process and apparatus for covering lithograph rolls. No. 1,407,163; Feb. 21.
 Nydegger, Max. (See Fels, William, assignor.)
 Nydegger, Otto, Bern, and H. Schellenberg, Personico, Switzerland. Producing urea from lime nitrogen. No. 1,417,277; May 23.
 Nye, Harry, Akron, Ohio. Mold. No. 1,435,020; Nov. 7.
 Nye, Ralph D., Canton, Ohio. Furnace valve. No. 1,411,297; Apr. 4.
 Nye, Victor W., and E. M. Amthor, Buffalo, N. Y. Automatic train-stopping apparatus. No. 1,408,025; Feb. 28.
 Nylund, Erik L., Detroit, Mich. Railway switch. No. 1,425,680; Aug. 15.
 Nyman, Alexander, Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Polymorphous dynamo-electric machine. No. 1,404,885; Jan. 31.
 Nyman, Alexander, Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Starting mechanism for automobiles. No. 1,437,069; Nov. 28.
 Nyman, John O., assignor to The Central Metal Products Company, Canton, Ohio. Metal door. No. 1,439,439; Dec. 19.
 Nyman, John O., and J. P. Pearson, Canton, Ohio. Sheet-metal partition. No. 1,417,102; May 23.
 Nyquist, Harry, Woodridge, N. J., assignor to American Telephone and Telegraph Company. Distortion-measuring apparatus. No. 1,435,328; Nov. 14.
 Nysewander, David J., Toledo, Ohio. Liquid-fuel burner. No. 1,427,227; Aug. 29.
 Nystrom, A. J., & Co. (See Beckley, Major H. E., assignor.)
 Nystrom, A. J., and Company. (See Swanson, Frank H., assignor.)
 Nystrom, Ernest, Oakland, Calif. Motor-vehicle bumper. No. 1,416,861; May 23.
 Nystrom, Karl F. (See Coleman, J. M., and Nystrom.)
 Nystrom, Karl F., Montreal, Quebec, Canada. Truck construction. No. 1,404,886; Jan. 31.
 Nystrom, Karl F., Montreal, Quebec, Canada. Grain valve. No. 1,404,887; Jan. 31.
 Nystrom, Karl F., Montreal, Quebec, Canada. Striking plate. No. 1,440,313; Dec. 26.
 Nystrom, Martin, assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Governor mechanism for talking machines. No. 1,403,344; Jan. 10.
 Nystrom, Martin, assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Brake mechanism for talking machines. No. 1,406,579; Feb. 14.
 Nystrom, Martin, assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Pawl and ratchet device. No. 1,406,580; Feb. 14.
 Nystrom, Martin, assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Motor. No. 1,437,263; Nov. 28.
 Nystrom, Martin, assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Supporting structure for phonograph motors. No. 1,437,673; Dec. 5.
 Nystrom, Martin, assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Record file for phonographs. No. 1,438,392; Dec. 12.
 Nystrom, Martin, and J. Spring, assignors to The Brunswick-Balke-Collender Company, Chicago, Ill. Speed regulator for phonographs. No. 1,437,264; Nov. 28.
 O & J Machine Company, The. (See Johnson, J. E., and Oslund, assignors.)
 O. & J. Machine Company, The. (See Oslund, Charles H., assignor.)
 O-K Elevator Safety Lock Company. (See McCarty, Homer B., assignor.)
 Oak, Noah J., Lynn, Mass. Grading and sorting machine for potatoes. No. 1,425,791; Aug. 15.
 Oakes, Ben, Detroit, Mich. Sprinkler. No. 1,428,553; Sept. 12.
 Oakes Co., The. (See Hoyt, George W., assignor.)
 Oakes Company, The. (See Oakes, William H., assignor.)
 Oakes Company, The. (See Weaver, Harry A., assignor.)
 Oakes, Earle T., assignor, by mesne assignments, to National Biscuit Company, New York, N. Y. Impregnating and coating composition and preparing same. No. 1,411,371; Apr. 4.
 Oakes, Frank J., Indianapolis, Ind., assignor to Link-Belt Company, Chicago, Ill. Chain. No. 1,419,891; June 13.
 Oakes, Frank J., Indianapolis, Ind., assignor to Link-Belt Company, Chicago, Ill. Bushing for carrier rollers, etc. No. 1,419,892; June 13.
 Oakes, Lucian R., Tipton, Ind. Circuit control for electric display signs and the like. No. 1,408,307; Feb. 28.
 Oakes, Otto L., Boise, Idaho. Tractor-controlling means and the like. No. 1,414,988; May 2.
 Oakes, Owen F., Boston, Mass. Automatic stitch-controlling means for knitting machines. No. 1,430,836; Oct. 3.
 Oakes, William H., assignor to The Oakes Company, Indianapolis, Ind. Spare-wheel lock. No. 1,430,083; Oct. 3.
 Oakford, Frederic, Philadelphia, assignor of one-half to A. W. Jones, Germantown, Philadelphia, Pa. Humidor. No. 1,423,356; July 18.
 Oakley, Clifford H., Trenton, N. J. Rubber mat. No. 1,421,818; July 4.
 Oakley, George, assignor to Consolidated Car Heating Company, Albany, N. Y. Door-engine control circuits. No. 1,424,257; Aug. 1.
 Oakley, John. (See Perkins, J. L., Sickles, and Oakley.)
 Oakley, John, Springfield, Mass. Broach. No. 1,423,814; July 25.
 Oakley, John, Springfield, Mass. Broach. No. 1,432,410; Oct. 17.
 Oakman, Erwin H., Atlanta, Ga. Inkwell. No. 1,416,862; May 23.
 Oakville Company. (See Boden, George, assignor.)
 Oasis Manufacturing Co. (See York, Edgar L., assignor.)
 Oates, Eugene C. (See Von Roeder, B. G., and Oates.)
 Oatman, David C., Buffalo, and F. G. Curvin, Medina, assignors to Frederick H. Church, Rochester, N. Y. Windshield cleaner. No. 1,414,578; May 2.
 Obach, Kazimierz A., assignor of one-half to J. Weliszek, Winnipeg, Manitoba, Canada. Motor sleigh. No. 1,414,891; May 2.
 O'Banion, Jay I., Seattle, Wash. Oil composition. No. 1,417,103; May 23.
 O'Bannon, Maurice, Daytona Beach, Fla. Tire. No. 1,426,763; Aug. 22.
 Ober, Alfred, Hamburg, Germany. Parallel vise. No. 1,440,167; Dec. 26.
 Oberfell, George G. (See Burrell, G. A., Oberfell, and Voress.)
 Oberlander, Chalmers L., Bucyrus, Ohio. Key holder. No. 1,420,335; June 20.
 Oberlander, Samuel, New York, N. Y. Cutting device and receptacle therefor. No. 1,429,162; Sept. 12.
 Obermiller, Maximilian W., New York, N. Y. Cut-off valve for pneumatically-operated musical instruments. No. 1,415,894; May 16.
 Obermiller, Maximilian W., New York, N. Y. Polishing table. No. 1,414,895; May 16.
 Oberreich, Louis H., Indianapolis, Ind. Shock absorber. No. 1,414,094; Apr. 25.

Alphabetical list of patentees—Continued.

- Oberschmidt, Frederick H., Cleveland, Ohio, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor controller. No. 1,431,249; Oct. 10.
- Obert, Casin W., Mount Vernon, N. Y. Auxiliary pressure-relief device for steam boilers. No. 1,429,296; Sept. 19.
- O'Brien, William. (See Bennett, A. M., Elliott, and O'Brien.)
- O'Brien, William. (See Elliott, W. B., and O'Brien.)
- Obole, James A., Torrance, Calif. Micrometer attachment. No. 1,416,573; May 16.
- Oboukhoff, Nikolai, Harbin, China. Frequency changer and generator of alternating current. No. 1,426,001; Aug. 15.
- O'Brien, Chester J., Chicago, Ill. Bar spacer. No. 1,427,516; Aug. 29.
- O'Brien, Chester J., Chicago, Ill. Concrete insert. No. 1,429,686; Sept. 19.
- O'Brien, Francis J. T., Ocean Park, Calif. Apparatus for preparing food products. No. 1,409,463; Mar. 14.
- O'Brien, Harold F., Los Angeles, Calif., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,437,070; Nov. 28.
- O'Brien, Henry G., assignor to Trumbull Steel Company, Warren, Ohio. Continuous hot mill. No. 1,425,537; Aug. 15.
- O'Brien, Hugh M., Corona, N. Y. Bell trap. No. 1,411,125; Mar. 28.
- O'Brien, James H., Manchester, N. H. Fire shutter for moving-picture machines. No. 1,423,139; July 18.
- O'Brien, John E. (See Harter, C., assignor.)
- O'Brien, John G., and F. A. Picard, Saginaw, Mich. Fuel-reserve-supply system. No. 1,409,310; Mar. 14.
- O'Brien, John G., and F. A. Picard, Saginaw, Mich. Reserve-supply system for tanks. No. 1,425,681; Aug. 15.
- O'Brien, John J., Brooklyn, N. Y. Check protector. No. 1,402,531; Jan. 3.
- O'Brien, John O. (See Thornton, John E., assignor.)
- O'Brien, Joseph C., assignor to Pittsburgh Gear & Machine Company, Pittsburgh, Pa. Involute toothed gear. No. 1,412,889; Apr. 18.
- O'Brien, Joseph J., Springfield, Mass. Vehicle bumper. No. 1,418,453; June 6.
- O'Brien, Joseph J., Springfield, Mass. Retaining clip. No. 1,422,610; July 11.
- O'Brien, Thomas, Limited. (See Shrimpton, Raymond J., assignor.)
- O'Brien, Thomas, Philadelphia, Pa. Insulated joint for railway rails. No. 1,407,566; Feb. 21.
- O'Brien, William B. (See Griggs, B. G., and O'Brien.)
- O'Brien, William J., Providence, R. I. Safety catch. No. 1,433,029; Oct. 24.
- O'Brien, William L., and O. H. Spencer, Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Coil-winding machine. No. 1,406,215; Feb. 14.
- O'Bryan, Lawrence T., W. M. Silk, Louisville, Ky., and T. H. Kirk, Lexington, Ky. Packing leaf tobacco. No. 1,413,863; Apr. 25.
- Ocean Bond Co. (See Rogers, Allen, assignor.)
- Ochiltree, Ned A., Omaha, Nebr. Desk tray or basket. No. 1,408,026; Feb. 28.
- Ochoa, Victor L., El Paso, Tex. Wrench. No. 1,417,196; May 23.
- Ochs, George F. A., Newark, N. J. Anchoring means for track rails. No. 1,408,391; Feb. 28.
- Ochs, Ralph J., San Bernardino, and C. E. Hodes, San Francisco, Calif. Auto theft signal. No. 1,408,133; Feb. 28.
- Ochs, Werner, Bad Liebenstein, Germany. Machine for inserting lacing hooks. No. 1,429,965; Sept. 26.
- Ochsnet, Emil, Sutton, Nebr. Radiator. No. 1,421,542; July 4.
- Ockleston, William H., Bourn, and T. B. Carmichael, Waterloo, near Liverpool, England. Tanning. No. 1,413,488; Apr. 18.
- O'Connell, Bernard W. (See Erwin, L. B., and O'Connell.)
- O'Connell, Edward, St. Louis, Mo. Washing machine. No. 1,433,221; Oct. 24.
- O'Connell, Joseph A. (See Boyd, Frank W., assignor.)
- O'Connell, Thomas F., assignor to Paramount Hosiery Form Drying Co., Chicago, Ill. Drying and shaping structure for drying lace hosiery. No. 1,402,532; Jan. 3.
- O'Connell, William, Cincinnati, Ohio. Two-in-one rubber tire. No. 1,422,123; July 11.
- O'Connor, Daniel J., assignor to Twisted Wire & Steel Co., New York, N. Y. Box-strapping tool. No. 1,413,768; Apr. 25.
- O'Connor, Gerald G., Pittsburgh, Pa. Adjustable handle for tools. No. 1,413,869; Apr. 25.
- O'Connor, James A., Bridgeport, Conn. Fountain pen. No. 1,423,448; July 18.
- O'Connor, John, New York, N. Y. Sash fastener. No. 1,428,447; Sept. 5.
- O'Connor, John B., assignor to Lyon Metallic Manufacturing Company, Aurora, Ill. Detachable support. No. 1,416,969; May 23.
- O'Connor, John B., assignor to Lyon Metallic Manufacturing Company, Aurora, Ill. Shelving. No. 1,418,324; June 6.
- O'Connor, John B., assignor to Lyon Metallic Manufacturing Company, Aurora, Ill. Manufacturing shelving. No. 1,431,173; Oct. 10.
- O'Connor, John B., assignor to Lyon Metallic Manufacturing Company, Aurora, Ill. Locker. No. 1,438,547; Dec. 12.
- O'Connor, John F. (See Miner, W. H., and O'Connor.)
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand brake. No. 1,403,187; Jan. 10.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand brake. No. 1,403,188; Jan. 10.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Means for suspending cars upon trucks. No. 1,405,619; Feb. 7.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,405,620; Feb. 7.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand brake. No. 1,405,621; Feb. 7.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Shock-absorbing mechanism. No. 1,407,882; Feb. 28.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Mechanical movement. No. 1,407,883; Feb. 28.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Shock absorber. No. 1,421,819; July 4.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Shock absorber. No. 1,421,820; July 4.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,421,821; July 4.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,421,822; July 4.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand brake. No. 1,421,823; July 4.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Coupling-release mechanism. No. 1,429,589; Sept. 19.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,429,687; Sept. 19.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,429,688; Sept. 19.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,429,690; Sept. 19.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,431,324; Oct. 10.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,433,293; Oct. 24.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,433,294; Oct. 24.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,434,284; Nov. 21.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Bolster-locking center pin. No. 1,434,499; Nov. 7.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Antifriction center bearing. No. 1,436,283; Nov. 21.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. High-capacity spring. No. 1,439,374; Dec. 19.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. High-capacity spring. No. 1,439,375; Dec. 19.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,439,376; Dec. 19.
- O'Connor, John J., et al., trustees. (See Hammond, Laurens, assignor.) (Reissue.)
- O'Connor, Joseph N., Seattle, Wash. Sanitary creeper car. No. 1,432,612; Oct. 17.
- O'Connor, Michael J., Bloomingdale, N. J. Resilient tire. No. 1,405,859; Feb. 7.
- O'Connor, Michael J., Bloomingdale, N. J. Muffler for explosive engines. No. 1,412,416; Apr. 11.
- Oda, Cinco S., assignor of one-half to P. N. Fisher, Boston, Mass. Belt buckle. No. 1,417,855; May 30.
- Odarka, Teijin, West Orange, N. J. Toy. No. 1,429,761; Sept. 19.
- O'Dea, Arthur T., Pittsburgh, Pa. Metal crate. No. 1,408,392; Feb. 28.
- Odell, Allan F., Brooklyn, N. Y. Producing organic acids. No. 1,425,605; Aug. 15.
- Odell, Freeman, Lake George, N. Y. Saw set. No. 1,440,098; Dec. 26.
- Odell, George W., Montreal, Quebec, Canada, assignor to Computing-Tabulating-Recording Company, New York, N. Y. Recording machine for mechanically-determined calculations. No. 1,406,066; Feb. 7.
- Odell, George W., Montreal, Quebec, Canada, assignor to Computing-Tabulating-Recording Company, New York, N. Y. Computing-card-stamping machine. No. 1,406,067; Feb. 7.
- Odell, George W., Binghamton, N. Y., assignor to The International Time Recording Company of New York. Time recorder. No. 1,421,824; July 4.
- Odell, James T., Birmingham, Ala. Cotton chopper. No. 1,418,159; May 30.

- Odell, Stephen E., and F. L. Clift, Bellingham, Wash. Mining machinery. No. 1,413,289; Apr. 18.
- O'Dell, Stephen O., Detroit, Mich. Salve. No. 1,426,002; Aug. 15.
- Odenkirk, Harry C., Cleveland, Ohio. Metallic railway cross-tie. No. 1,405,556; Feb. 7.
- Odner, Valentin J., Hindaas, Sweden. Calculating wheel of calculating machines. No. 1,440,028; Dec. 26.
- Odneal, John D. (See Reese, H. D., and Harless, assignors.)
- O'Donnell, Daniel J., Cleveland, Ohio. Combination lock. No. 1,433,147; Oct. 24.
- O'Donnell, Gerald T., Chicago, Ill. Harvesting machine. No. 1,440,168; Dec. 26.
- O'Donnell, John, jr., assignor of one-half to L. H. Brown, Philadelphia, Pa. Signal for autos and other vehicles. No. 1,434,142; Oct. 31.
- O'Donnell, John R. (See Feldblet, H. L., and O'Donnell.)
- O'Donnell, Walter T., Lakewood, Ohio. Track drain. No. 1,408,134; Feb. 28.
- O'Dowd, Henry W., Jersey City, N. J., assignor to William M. Crane Company. Gas range. No. 1,403,814; Jan. 17.
- O'Dowd, Henry W., Jersey City, N. J., assignor to William M. Crane Company. Gas stove. No. 1,425,043; Aug. 8.
- O'Dowd, Henry W., Jersey City, N. J., assignor to William M. Crane Company. Gas stove. No. 1,433,092; Oct. 24.
- O'Dowd, Henry W., Jersey City, N. J., assignor to William M. Crane Company. Gas stove. No. 1,435,938; Nov. 21.
- Odson, Lenna B. (See Howell, C. J., and Odson.)
- Odson, Lenna B., Spokane, Wash. Pulley-cord clip. No. 1,405,426; Feb. 7.
- Oedell, Louis, and A. Bell, assignors to Waterbury Clock Co., Waterbury, Conn. Watch. No. 1,434,838; Nov. 7.
- Oefinger, John L., Denver, Colo. Broom holder. No. 1,423,678; July 25.
- Oehm, William N., and G. Powell, Michigan City, Ind. Nailing machine. No. 1,412,626; Apr. 11.
- Oehme, Hermann, Cologne-on-the-Rhine, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Preparation of dinitrolycol and its homologues. No. 1,426,313; Aug. 15.
- Oehrn, Hans. (See Kaltwasser, O., and Oehrn.)
- Oelsner, Anton, Gera-Untermhaus, assignor to R. E. Golde, Gera-Reuss, Germany. Device for opening and closing the hoods of motor cars. No. 1,437,351; Nov. 28.
- Oertli, Caspar. (See Oertli, Lucy and C., and Turnell.)
- Oertli, Lucy, and C., Hamilton, Mont., and H. Turnell, Elm Creek, Nebr. Automatic haystacker. No. 1,422,611; July 11.
- Oesterlein, Charles D., and L. H. Blood, assignors to The Oesterlein Machine Co., Cincinnati, Ohio. Machine tool. No. 1,405,622; Feb. 7.
- Oesterlein Machine Company, The. (See Blood, Louis H., assignor.)
- Oesterlein Machine Co. (See Oesterlein, C. D., and Blood, assignors.)
- Oestretcher, George J., West Park, assignor of one-half to J. Flachbart, Sr., Cleveland, Ohio. Ground-gripping device for vehicle wheels. No. 1,404,312; Jan. 24.
- Oettinger, Adolph J., Brookline, Mass. String adjuster for violins and the like. No. 1,431,250; Oct. 10.
- Ofeldt, Ernest G., Nyack, N. Y. Steam-boiler structure. No. 1,432,488; Oct. 17.
- Ofensend, Chase F., assignor to The Miller Rubber Company, Akron, Ohio. Apparatus for building cord tires. No. 1,405,427; Feb. 7.
- Offenhausser, Christopher. (See Hottmann, Charles W., assignor.)
- Officer, James M. (See Stackhouse, John H., assignor.)
- Offert Directoplate Company. (See Koppe, Alexander T., assignor.)
- Ogden, Clarence E., Cincinnati, Ohio. Electric controller. No. 1,410,073; Mar. 21.
- Ogden, Clarence E., Cincinnati, Ohio. Means for charging storage batteries. No. 1,430,106; Sept. 26.
- Ogden, Clarence E., Cincinnati, Ohio. Means for charging storage batteries. No. 1,430,107; Sept. 26.
- Ogden, Ellsworth P., Columbus, assignor to J. B. Owens, Zanesville, Ohio. Tunnel kiln. No. 1,418,669; June 6.
- Ogden, J. Edward. (See Fisher, Joseph K., assignor.)
- Ogden, J. Edward. (See Tomkinson, Charles C., assignor.)
- Ogden, John E., Lynchburg, Va. Record cabinet for talking machines. No. 1,422,612; July 11.
- Ogden, John E., Lynchburg, Va. Convertible stand and table. No. 1,422,613; July 11.
- Ogden, John E. (See Kennedy, Joseph, assignor.)
- Ogden, John E. (See Tomkinson, Charles C., assignor.)
- Ogden, John E., Cornwall, N. Y. Expansion anchorage. No. 1,419,979; June 20.
- Ogden, John E., Cornwall, N. Y. Expansion shield. No. 1,431,176; Oct. 10.
- Ogden, John E., Cornwall, and J. Kennedy, Richmond Hill, N. Y.; said Kennedy assignor to said Ogden. Metal-working machine. No. 1,424,671; Aug. 1.
- Ogden, John E., Mountville, and J. B. Howell, New York, N. Y.; said Howell assignor to said Ogden. Door. No. 1,431,174; Oct. 10.
- Ogden, John E., Cornwall, and J. Kennedy, Richmond Hill, N. Y.; said Kennedy assignor to said Ogden. Metal-working machine. No. 1,431,175; Oct. 10.
- Ogden, Randolph E., Rockville, Ind. Harness oiler. No. 1,426,903; Aug. 22.
- Ogden, William P., deceased, Denver, Colo., by M. E. Holmes, administratrix, assignor to J. M. Schnatterly, Spokane, Wash. Concentrator. No. 1,428,392; Sept. 5.
- Ogilvie, Julian M., London, England. Cinematographic screen. No. 1,426,317; Aug. 15.
- Ogle, John N., Adamstown, Md., assignor to C. F. Jenkins, Washington, D. C. Motion-picture apparatus. No. 1,411,668; Apr. 4.
- Oglesby, Richard A., assignor to Quick Action Ignition Company, South Bend, Ind. Driving-pulley magneto. No. 1,408,904; Mar. 7.
- O'Grady, Frederick T., Flushing, assignor of one-half to H. L. Muller, Whitestone, N. Y. Color motion-picture photography. No. 1,402,371; Jan. 3.
- Ogren, John, Stillwater, Minn. Truck body. No. 1,439,257; Dec. 19.
- Ogrissek, George A., Jersey City, N. J. Propeller. No. 1,424,672; Aug. 1.
- O'Hanlon, Felix T., Liverpool, England. Self-filling fountain or reservoir pen. No. 1,433,222; Oct. 24.
- O'Hara, James, Lebanon, Oreg. Paper machine. No. 1,420,135; June 20.
- O'Hara Waltham Dial Co., Inc. (See Kelly, James F., assignor.)
- O'Hare, James J., Melrose, Mass. Device for scaffolds and the like. No. 1,437,858; Dec. 5.
- Ohashi, Kunitomi, Tokyo, Japan. Apparatus for twisting mixed feather yarn. No. 1,436,898; Nov. 28.
- Ohaver, David W., Rockville, Ind., assignor to Henry Mansfield, Indianapolis, Ind. Hat and coat hanger. No. 1,403,815; Jan. 17.
- O'Hern, Daniel, Joliet, Ill. Railway-track crossing. No. 1,430,178; Sept. 26.
- Ohio Blower Company, The. (See Skipworth, Walter, assignor.)
- Ohio Body & Blower Company, The. (See Bancroft, James L., assignor.)
- Ohio Body & Blower Company, The. (See Mastenbrook, Henry J., assignor.)
- Ohio Brass Company, The. (See Austin, Arthur O., assignor.)
- Ohio Brass Company, The. (See Averill, Rex G., assignor.)
- Ohio Brass Company, The. (See Bovard, William P., assignor.)
- Ohio Brass Company, The. (See Henry, Georges E., assignor.)
- Ohio Brass Company, The. (See Hunzicker, Walter W., assignor.)
- Ohio Brass Company, The. (See Larsson, Ernst, assignor.)
- Ohio Brass Company, The. (See Lincoln, E. S., and Larsson, assignors.)
- Ohio Brass Company, The. (See Manz, M. W., and Matthes, assignors.)
- Ohio Brass Company, The. (See Manz, Merrill W., assignor.)
- Ohio Brass Company, The. (See Matthes, Samuel S., assignor.)
- Ohio Brass Company, The. (See Starkey, William C., assignor.)
- Ohio Cultivator Company, The. (See Griffith, Richard H., assignor.)
- Ohio Fuel Supply Company, The. (See Koch, George T., assignor.)
- Ohio Instrument Manufacturing Company, The. (See Raus, John, assignor.)
- Ohio Match Company, The. (See Parker, Lucian E., assignor.)
- Ohio Oil Company, The. (See Roberts, Marion M., assignor.)
- Ohio Tractor Company, The. (See Zuhars, B. C., and Clarke, assignors.)
- Ohio Trailer Company, The. (See Ferris, William E., assignor.)
- Ohio Varnish Company, The. (See Gstalder, Paul A., assignor.)
- Ohlbaum, Max. (See Friedman, S., and Ohlbaum.)
- Ohler, Frank L., assignor to The Houghton Elevator & Machine Co., Toledo, Ohio. Elevator-gate control device. No. 1,412,368; Apr. 11.
- Ohlgart, George P., Baltimore, Md. Impact detonator for shells or projectiles. No. 1,411,889; Apr. 4.
- Ohm, Herman C., Terre Haute, Ind. Folding fan. No. 1,420,496; June 20.
- Ohmer Fare Register Company. (See Ohmer, John F., Jr., assignor.)
- Ohmer, John F., Jr., assignor to Ohmer Fare Register Company, Dayton, Ohio. Zone-fare-computing device. No. 1,402,789; Jan. 10.
- Ohmer, W. I. (See Hochstetter, Frederick W., assignor.)
- Ohnstein, Lester, Minneapolis, Minn. Illuminated license number plate and tail light. No. 1,418,454; June 6.
- Ohnstrand, Enoch, Mohawk, N. Y., assignor to Library Bureau, Cambridge, Mass. Latch. No. 1,407,884; Feb. 28.
- Ohnstrand, Enoch, Mohawk, N. Y., assignor to Library Bureau, Cambridge, Mass. Cushion for doors of fire-resistant cabinets. No. 1,436,353; Nov. 21.
- Ohnstrand, Enoch, Mohawk, N. Y., assignor to Library Bureau, Cambridge, Mass. Lock for fireproof structures. No. 1,440,169; Dec. 26.

Alphabetical list of patentees—Continued.

- Ohrn, Erling, Rjukan, Norway. Automatically-operating nest for poultry. No. 1,436,899; Nov. 28.
- Oil Conservation Engineering Company. (See Brooks Stephen H., assignor.)
- Oil Products Appliance Co. (See Wyckoff, A. D., and de Correvont, assignors.)
- Oil Refining Improvements Company, The. (See Hood, John J., assignor.)
- Oil Well Supply Company. (See Greve, Edgar E., assignor.)
- Oil Well Supply Company. (See Mack, Patrick H., assignor.)
- Olshel, John R., Buffalo, N. Y. Windshield and the like. No. 1,407,164; Feb. 21.
- Ojeda, Amando M., Los Angeles, Calif. Tamale-making apparatus. No. 1,433,471; Oct. 24.
- Okadee Company, The. (See Vissering, Harry, assignor.)
- Okano, Sotaro Higashi Ku, Osaka, Japan, assignor to Nihon Kokwan Shaft Kabushiki Kwaisha, Tokyo, Japan. Making tubes from ingots. No. 1,413,604; Apr. 25.
- Okano, Sotaro, Higashi Ku, Osaka, Japan, assignor to Nihon Kokwan Shaft Kabushiki Kwaisha, Tokyo, Japan. Apparatus for making tubes from ingots. No. 1,413,605; Apr. 25.
- O'Keefe, James J. (See Roberts, A. O., O'Keefe, and Burby.)
- Okins, Elliott M., Auburn, Wash. Fuel-feeding apparatus. No. 1,424,258; Aug. 1.
- Oklahoma Magnetic Post Co. (See Parsons, E. B., and Bullington, assignors.)
- Okonite Company, The. (See Loomis, Everts G., assignor.)
- Okum, Abraham, et al. (See Hachalacht, Michael, assignor.)
- Olafson, Olafur J., Kandahar, Saskatchewan, Canada. Cement block and wall structure. No. 1,404,473; Jan. 24.
- Olander, August, Murray, Utah. Weed cutter. No. 1,404,313; Jan. 24.
- Olberg, Charles R., Alhambra, Calif., assignor of one-half to F. R. Schanck, Chicago, Ill. Rotary scraper. No. 1,429,089; Sept. 12.
- Olcott, Walter, South Manchester, Conn. Green-corn implement. No. 1,414,372; May 2.
- Old Colony Trust Company, trustee. (See Harman, John J., assignor.)
- Old, James H., Boston, Mass. Lens. No. 1,430,580; Oct. 3.
- Oldach, William H., Panama, Panama. Precision inter-pupillary and bridge measure. No. 1,413,606; Apr. 25.
- Olden, Frank H., Chester, Pa. Controlling means for mercerizing machines. No. 1,429,525; Sept. 19.
- Oldenquist, Charles W., West Lynn, Mass. Trolley harp. No. 1,414,301; Apr. 25.
- Older, Roy B., assignor to Allith-Prouty Company, Danville, Ill. Automobile bumper. No. 1,425,272; Aug. 8.
- Oldrieve, William T. (See Macnaughton, J., and Oldrieve.)
- Oldroyd, Fred, Cincinnati, Ohio. Mining and quarrying machine. No. 1,416,742; May 23.
- Olds, George D., jr., Brooklyn, N. Y. Machine for extracting and shredding coconut meat. No. 1,438,714; Dec. 12.
- O'Leary, Jennie, administratrix. (See Tracy, Laurence J.)
- O'Leary, Jennie, et al. (See Tracy, Laurence J., assignor.)
- O'Leary, Jeremiah B., Springfield, Mass. Handcuff holster. No. 1,413,290; Apr. 18.
- O'Leary, Margaret K., Brooklyn, N. Y. Stocking examiner. No. 1,402,788; Jan. 10.
- O'Leary, Marguerite V. (See Mansbendel, Fritz P., assignor.)
- O'Leary, Timothy. (See Brownback, Henry L., assignor.)
- O'Leary, William, Belvedere College, Dublin, Ireland. Clock. (Reissue.) No. 15,398; July 4.
- Olesberg, Oluf E., Bawlf, Alberta, Canada. Brush and chopping ax. No. 1,423,140; July 18.
- Olfort, Axel, Chicago, Ill. Window adjuster. No. 1,419,893; June 13.
- Olin, Franklin W., Alton, Ill., assignor to Western Cartridge Company. Wad bushing for loading machines. No. 1,419,941; June 20.
- Olin, Fred C., Buffalo, N. Y. Tractor. No. 1,423,962; July 25.
- Olin, John M., assignor, by mesne assignments, to Western Cartridge Company, East Alton, Ill. Battery cup. No. 1,438,779; Dec. 12.
- Oling, Abraham J., Chicago, Ill. Foot support for boot-black stands or the like. No. 1,411,455; Apr. 4.
- Olinger, Thomas, assignor to Federal Stamping Company, Holland, Mich. Furnace-regulator construction. No. 1,407,802; Feb. 28.
- Oliphant, D. A. (See Sweeney, William, assignor.)
- Oliphant, John, Chicago, Ill., assignor to Sullivan Machinery Company. Air-lift system. No. 1,427,817; Aug. 29.
- Oliphant, John, Chicago, Ill., assignor to Sullivan Machinery Company. Oil-pumping system. No. 1,440,357; Dec. 26.
- Olivé, Luis A., Barcelona, Spain. Closure for envelopes or similar wrappers. No. 1,427,165; Aug. 29.
- Oliver, Albert, New York, N. Y. Plaster ground. No. 1,403,520; Jan. 17.
- Oliver, Albert L., assignor to California Cap Company, Oakland, Calif. Waterproof electric blasting cap. No. 1,408,711; Mar. 7.
- Oliver, Charles E., Vancouver, British Columbia, Canada. Means for calcining hydromagnesite. No. 1,436,520; Nov. 21.
- Oliver Chilled Plow Works. (See Altgelt, Rudolph, J., assignor.)
- Oliver Chilled Plow Works. (See Dewend, William D., assignor.)
- Oliver Chilled Plow Works. (See Gallagher, Arthur D., assignor.)
- Oliver Chilled Plow Works. (See Heylman, Edward M., assignor.)
- Oliver, Edd C., Adrian, Mich. Phonograph. No. 1,409,759; Mar. 14.
- Oliver, Ernon V., assignor of five-twelfths to H. Peterson, Portland, Oreg. Box-dailing form. No. 1,416,230; May 16.
- Oliver, Herbert G., New York, N. Y. Reel for photographic films. No. 1,420,056; June 20.
- Oliver, Joseph F., assignor to C. E. Wakefield, Worcester, Mass. Adjustable wrench. No. 1,436,049; Nov. 21.
- Oliver, Joseph F., and J. P. Fleming, assignors to C. E. Wakefield, Worcester, Mass. Wrench. No. 1,435,548; Nov. 14.
- Oliver, Nathan A., Mattapoisett, Mass. Headlight dimmer. No. 1,429,762; Sept. 19.
- Oliver, Richard H., Bridgeburg, Ontario, Canada. Brake beam. No. 1,418,391; June 6.
- Oliver, Samuel E., Vancouver, British Columbia, Canada. Still. No. 1,419,894; June 13.
- Oliver, Sewall K., Columbia, S. C. Warp take-up and tensioning mechanism for looms. No. 1,423,729; July 25.
- Oliver, Thomas C. (See Hechenbleikner, I., and Oliver.)
- Oliver Whyte Co. (See Jordan, Thomas B., assignor.)
- Oliyetti, Camillo, Ivrea, Italy. Magneto electric machine. No. 1,423,141; July 18.
- Olivier, Maurice G., assignor to Societe Francaise de Crins Artificiels, Paris, France. Producing molded articles of pure cellulose. No. 1,422,469; July 11.
- Olley, Maurice, Springfield, Mass. Chassis lubrication. No. 1,438,393; Dec. 12.
- Ollivier, Jocelyn, E., Haute-Savoie, France. Traction wheel. No. 1,404,051; Jan. 17.
- Olmsted, David R., Council Bluffs, Iowa. Wave motor. No. 1,407,885; Feb. 28.
- Olmsted, Robert S., Reading, Mass. Sextant for use with balloons. No. 1,425,682; Aug. 15.
- Olney, Burt C., et al. (See Adams, Frank A., assignor.)
- Olop, Stephen, Denver, Colo. Record assembling and display device. No. 1,402,009; Jan. 3.
- Olsen, Alfred N., assignor to Victor Pin-Setter Company, Rock Rapids, Iowa. Pin-setting mechanism. No. 1,414,787; May 2.
- Olsen, George, assignor of one-half to J. Droter, Washington, D. C. Direction indicator for motor vehicles. No. 1,403,521; Jan. 17.
- Olsen, George O., Boston, assignor, by mesne assignments, to The Manufacturing Engineers Inc., Brookline, Mass. Fuel heater. No. 1,413,607; Apr. 25.
- Olsen, Halften E., Chicago, Ill., assignor, by mesne assignments, to F. C. Austin Machinery Company. Combined flushing and sprinkling nozzle. No. 1,434,625; Nov. 7.
- Olsen, Hans W., Mommence, Ill. Pulley key lock. No. 1,418,728; June 6.
- Olsen, Harry R., St. Paul, Minn. Collapsible gocart. No. 1,429,966; Sept. 26.
- Olsen, Harvey, New York, assignor to M. J. Caferio, Kings County, N. Y. Cable holder. No. 1,419,584; June 13.
- Olsen, Joseph N., Estherville, Iowa. Folding chair. No. 1,412,194; Apr. 11.
- Olsen, Lawrence E., Troy, assignor to Pratt & Whitney Company, New York, N. Y. Adjustable limit gauge. No. 1,414,434; May 2.
- Olsen, Lawrence E., Troy, assignor to Pratt & Whitney Company, New York, N. Y. Adjustable limit gauge. No. 1,414,484; May 2.
- Olsen, Victor O. (See McAdam, C., and Olsen.)
- Olsen, Walter, assignor to American Gas Machine Co., Albert Lea, Minn. Collapsible oven and carrying case. No. 1,404,314; Jan. 24.
- Olshin, Samuel J., Yonkers, N. Y. Skylight or ventilated roof. No. 1,429,967; Sept. 26.
- Olshin, Samuel J., Yonkers, N. Y. Skylight. No. 1,429,968; Sept. 26.
- Olson, Albert O. (See Harder, A. P., and Olson.)
- Olson, Albert S. N., Chicago, Ill. Lithographic printing. No. 1,438,460; Dec. 12.
- Olson, Albert S. N., Chicago, Ill. Lithographic-printing press. No. 1,438,461; Dec. 12.
- Olson, Alfred. (See Olson, Oscar L., assignor.)
- Olson, Alfred A., Cardin, Okla. Boiler cleaner. No. 1,418,670; June 6.
- Olson, Andrew, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Sheet-feeding mechanism. No. 1,426,904; Aug. 22.
- Olson, Anton C., Mandan, N. Dak. Locomotive curtain. No. 1,421,293; June 27.
- Olson, Axel, St. Paul, Minn. Irrigating device for flower beds. No. 1,439,973; Dec. 26.
- Olson, Carl A., and O. S. Kallman, Minneapolis, Minn. Shock absorber for seats. No. 1,411,372; Apr. 4.
- Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Milling cutter. No. 1,425,893; Aug. 15.
- Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Grinder spindle. No. 1,433,223; Oct. 24.

- Olson, Carl P. (See Davis, Seward, assignor.)
 Olson, Charlie, Lafayette, Minn. Dishwashing machine. No. 1,421,543; July 4.
 Olson, Charles A., Jamestown, N. Y. Wrench. No. 1,419,404; June 13.
 Olson, Charles A., assignor, by mesne assignments, to Geneva Heater Company, Geneva, Ill. Water heater. No. 1,430,924; Oct. 3.
 Olson, Charles J., Muskegon, Mich., assignor to The Olson Pneumatic Saw and Valve Company, Indianapolis, Ind. Pressure valve. No. 1,406,216; Feb. 14.
 Olson, Charles W., assignor to Continental Motors Corporation, Detroit, Mich. Grinding machine. No. 1,425,331; Aug. 8.
 Olson, Charlie, St. Louis, Mo. Culinary utensil. No. 1,430,318; Sept. 26.
 Olson, Emil E., Denver, Colo., assignor to C. A. Sarber, New York, N. Y. Automobile signal. No. 1,409,898; Mar. 14.
 Olson, Ernest M., Chicago, Ill. Control mechanism for lamps. No. 1,428,974; Sept. 12.
 Olson, Francis, Story City, Iowa. Oil burner. No. 1,403,057; Jan. 10.
 Olson, Fridolf, Brooklyn, N. Y. Column mold. No. 1,405,934; Feb. 7.
 Olson, Gus L. (See Flink, C. E., Beck, and Olson.)
 Olson, Gustav, Hastings-on-Hudson, N. Y. Fastener for curtains or the like. No. 1,402,951; Jan. 10.
 Olson, Herbert O., assignor to Burd High Compression Ring Company, Rockford, Ill. Receiving rack. No. 1,433,642; Oct. 31.
 Olson, John A., Chicago, Ill., assignor to The S-P Manufacturing Company, Cleveland, Ohio. Collet chuck. No. 1,407,213; Feb. 21.
 Olson, John A., Chicago, Ill., assignor to The S-P Manufacturing Company, Cleveland, Ohio. Machine vise. No. 1,416,970; May 23.
 Olson, John A., Bergenfield, N. J., and J. E. Williamson, Yonkers, N. Y., assignors, by mesne assignments, to Stokes & Smith Company, Philadelphia, Pa. Labeling mechanism. No. 1,418,455; June 6.
 Olson, John B., assignor to James Manufacturing Company, Fort Atkinson, Wis. Valve-actuating mechanism for stock-watering bowls. No. 1,415,264; May 9.
 Olson, John J., Belview, Minn. Garment. No. 1,418,965; June 6.
 Olson Machine Works. (See Olson, Oscar, assignor.)
 Olson, Mauritz, assignor to The A. H. Nilson Machine Co., Bridgeport, Conn. Wire chain link. No. 1,440,170; Dec. 26.
 Olson, Ole A., Northwood, Iowa. Revolving toothed-disk harrow. No. 1,405,860; Feb. 7.
 Olson, Ole J., Nashua, assignor of one-half to P. R. Rost, Glasgow, Mont. Track-cleaning device. No. 1,416,231; May 16.
 Olson, Ole K., Oakdale, N. Dak. Hen's nest. No. 1,402,790; Jan. 10.
 Olson, Olof. (See Fullenwider, George R., assignor.)
 Olson, Oran, Hagan, Wis. Wire fastener. No. 1,405,715; Feb. 7.
 Olson, Oscar, assignor to Olson Machine Works, Inc., Brooklyn, N. Y. Shoe-last-remodeling machine. No. 1,402,533; Jan. 3.
 Olson, Oscar A., Ames, Iowa. Lettering instrument. No. 1,416,411; May 16.
 Olson, Oscar L., Braham, assignor of one-half to A. Olson, Stanchfield, Minn. Oil-supply indicator for automobiles. No. 1,439,258; Dec. 19.
 Olson, Otto, Little Falls, Minn. Automobile tire saver. No. 1,433,295; Oct. 24.
 Olson Pneumatic Saw and Valve Company, The. (See Olson, Charles J., assignor.)
 Olson, Robert C., Worcester, Mass. Tool handle. No. 1,409,311; Mar. 14.
 Olson, Samuel, assignor to Samuel Olson & Company, Chicago, Ill. Tray elevator. No. 1,416,743; May 23.
 Olson, Samuel, & Company. (See Olson, Samuel, assignor.)
 Olson, Walter E., Chicago, Ill. Twister for carpet strips and the like. No. 1,406,217; Feb. 14.
 Olson, William E., Stevens Point, Wis. Game. No. 1,430,838; Oct. 3.
 Olson, William F., Omaha, Nebr. Necktie former and fastener. No. 1,431,837; Oct. 10.
 Olsson, Anders H. (See Olsson, Karl, and A. H.)
 Olsson, Karl and A. H., assignors to Aktiebolaget Lidköpings Mekaniska Verkstad, Lidköping, Sweden. Change-speed wheel gear for lathes. No. 1,420,939; June 27.
 Olsson, Nils J., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Means for automatically cutting off the feed motion of machine tools. No. 1,421,544; July 4.
 Olsson, Nils J., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Automatically-operating device for cutting off the feed motion of machine tools. No. 1,436,674; Nov. 28.
 Olsson, Zacharias, assignor of six-tenths to A. Rust-Oppenheimer, New York, N. Y. Refining element and making the same. No. 1,435,972; Nov. 21.
 Oltsch, George J., South Bend, Ind. Fishing reel. No. 1,426,594; Aug. 22.
 Oltsch, George J., South Bend, Ind. Combined shock absorber and rebound snubber for vehicle springs. No. 1,429,367; Sept. 19.
 Omaha Trust Company. (See Elrod, Benjamin S., assignor.)
 O'Malley, John F., Mount Vernon, N. Y. Tripod for machine guns. No. 1,407,567; Feb. 21.
 O'Malley, William G., Buffalo, N. Y. Water jacket. No. 1,411,178; Mar. 28.
 Oman, Reuben B., Willmar, Minn. Welding torch. No. 1,419,163; June 13.
 O'Mara, John J., Brooklyn, N. Y. Casserole frame. No. 1,429,763; Sept. 19.
 O'Marr, William J., San Diego, Calif. Pile-jetting apparatus. No. 1,409,760; Mar. 14.
 Omdal, Torgeir, Brooklyn, N. Y. Combined clutch and reversing gear. No. 1,435,021; Nov. 7.
 Omnigraph Company, The. (See Strawn, Ervin E., assignor.)
 Onderdonk, Thomas W., New York, N. Y. Dental scaler. No. 1,412,130; Apr. 11.
 Ondra, Frank, assignor to Concentrators Limited, Johannesburg, Transvaal, South Africa. Concentrating pulverulent material. No. 1,421,984; July 4.
 O'Neal, Edwin T., Springfield, Mo. Tent. No. 1,410,830; Mar. 28.
 O'Neal, James, Albany, Ala. Cylinder head. No. 1,435,129; Nov. 7.
 O'Neal, John, Terre Haute, Ind. Collar button. No. 1,419,298; June 13.
 Oneida Community Limited. (See McMullen, Allen, assignor.)
 O'Neill, Edward J. (See Higby, R. C., and O'Neill.)
 O'Neill, James A., Lynn, Mass., assignor to General Electric Company. Navigation light. No. 1,415,685; May 9.
 O'Neill, Joseph, St. Louis, Mo. Weather covering for building structures. No. 1,438,780; Dec. 12.
 O'Neill, Rodolph S., assignor to O'Neill's Recorder Syndicate Limited, London, England. Junction box for electric conductors. No. 1,426,210; Aug. 15.
 O'Neill, Thomas J., Pittsburgh, Pa. Antiskid device. No. 1,423,963; July 25.
 O'Neill, William, assignor to The General Tire & Rubber Company, Akron, Ohio. Manufacture of cord tires. No. 1,437,859; Dec. 5.
 O'Neill, Charles C., and J. J. Hynes, Annear, Nebr. Corn-husking machine. No. 1,419,895; June 13.
 O'Neill, Clarence B., Clymer, Pa. Nonset automatic stop. No. 1,429,046; Sept. 12.
 O'Neill, Emmett J., and H. T. White, Fairmont, W. Va. Automatic stock-feeding device. No. 1,429,297; Sept. 19.
 O'Neill, Eugene F., assignor to Beckwith-O'Neill Company, Minneapolis, Minn. Mounting for sound-reproducing machines. No. 1,418,016; May 30.
 O'Neill, Eugene F., assignor to Beckwith-O'Neill Company, Minneapolis, Minn. Mounting for sound-reproducing machines. No. 1,418,017; May 30.
 O'Neill, Frank, Toledo, Ohio. Glass-flow-off controller. No. 1,413,183; Apr. 18.
 O'Neill, Frank, Jr., Philadelphia, Pa. Fibrous plant decorticating machine. No. 1,420,136; June 20.
 O'Neill, Frank, Jr., Philadelphia, Pa. Fibrous-plant-decorticating machine. No. 1,423,357; July 18.
 O'Neill, Haylett, Larchmont, and E. Francis, Schenectady, N. Y. Fuel burner. No. 1,429,090; Sept. 12.
 O'Neill, Henry J., et al. (See Bockover, W. L., assignor.)
 O'Neill, Henry W., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical testing system. No. 1,404,311; Jan. 24.
 O'Neill, Joseph P., St. Louis, Mo. Knockdown box or crate fastening means. No. 1,405,150; Jan. 31.
 O'Neill, Lambert, jr. (See O'Neill, Lambert, sr., and L., jr.)
 O'Neill, Lambert, sr., and L., jr., Richmond, N. Y. Steeplechase device. No. 1,427,010; Aug. 22.
 O'Neill, William. (See Simon, S., and O'Neill.)
 O'Neill, William J. (See Cosgrove, J. P., and O'Neill.)
 O'Neill, William J. (See Frazier, W. H., and O'Neill.)
 O'Neill's Recorder Syndicate Limited. (See O'Neill, Rodolph S., assignor.)
 Onepiece Bifocal Lens Company. (See Bugbee, Lucian W., assignor.)
 Oney, William M., Houston, Tex. Oil and gas burner. No. 1,416,574; May 16.
 Onnertz, Paul. (See Goldberg, P. Onnertz, and Peters.)
 Onnertz, Paul, Berlin-Wilmersdorf, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Dyeing skins, hairs, and the like. No. 1,434,449; Nov. 7.
 Ono, Einosuke, Hiraka-Gun, Akita-Ken, Japan. Producing combined dies and counterdies for swaging seamless gold crowns. No. 1,420,940; June 27.
 Ono, Iwao, Los Angeles, Calif. Dental pressure gauge. No. 1,427,496; Aug. 29.
 Onstad, Albert H., Tacoma, Wash., assignor to Weyerhaeuser Forest Products, St. Paul, Minn. Electrically-heated branding dies. No. 1,413,053; Apr. 18.
 Oosterhuis, Elko. (See Holst, G., and Oosterhuis.)
 Opel, Walter, Leipzig, Germany. Making embossed reproductions of oil paintings. No. 1,412,131; Apr. 11.
 Open Coil Heater & Purifier Co. (See Stickle, Cole, assignor.)
 O'Phee, William J. (See Johnston, James, assignor.)
 Opheim, Torgils S., Everett, Wash. Automobile direction signal. No. 1,423,249; July 18.
 Opitz, Fred M., Racine, Wis. Automobile radiator. No. 1,404,159; Jan. 17.

Alphabetical list of patentees—Continued.

- Opitz, Fred M., Racine, Wis. Radiator core. No. 1,404,160; Jan. 17.
- Opitz, William H., Fort Wayne, Ind. Dispensing tank. No. 1,422,124; July 11.
- Oppenheim, Albert. (See Christie, Lewis D., assignor.)
- Oppenheim, Leo, New York, N. Y. Calendar. No. 1,415,686; May 9.
- Oppenheim, Oberndorf & Co. (See Atkinson, Joseph M., assignor.)
- Oppenheimer, Solomon, Washington, D. C. Newspaper clamp. No. 1,428,900; Sept. 12.
- Oppman, Joseph, assignor of one-half to A. I. Daniels, Connellsville, Pa. License holder. No. 1,429,091; Sept. 12.
- Opposed Piston Oil Engine Co. (See Jankers, Hugo, assignor.)
- Opsal, Anton M., Minneapolis, Minn. Motion control for artificial limbs. No. 1,413,054; Apr. 18.
- Optische Anstalt C. P. Goerz Aktiengesellschaft. (See Gleichen, Alexander, assignor.)
- O'Quinn, Arthur M., Miami, Fla. Sizer and grader. No. 1,429,764; Sept. 19.
- Oram, Warren W. (See Steen, J. P., and Oram.)
- Orbe, Pedro, Carlin, Nev. Rat trap. No. 1,419,299; June 13.
- Orcutt, Charles C. (See Pinder, Thomas F., assignor.)
- Orcutt, Charles C. (See Reed, F. P., and Nelson, assignors.)
- Orcutt, Charles C. (See Reed, Frederic P., assignor.)
- Ord, Edward O. C., Berkeley, Calif. Gold pan. No. 1,419,405; June 13.
- Ordakowski, Felix, Clarksburg, W. Va. Device for retaining overshoes on shoes. No. 1,432,780; Oct. 24.
- Ordinance Engineering Corporation. (See Phipps, Walter H., assignor.)
- Orear, Benjamin F. (See Nichols, G. J., and Orear.)
- O'Reardon, Charles, Oakland, Calif. Replaceable knife and jaw for pliers. No. 1,413,769; Apr. 25.
- Oreck, Louis. (See Scheekman, Louis, assignor.)
- O'Reilly, John J., Brooklyn, N. Y. Pipe-bending device. No. 1,420,336; June 20.
- Orell, Svante G. H., Stockholm, Sweden. Buffer device for cars. No. 1,416,377; May 16.
- Orell, Svante G. H., Stockholm, Sweden. Bed carriage. No. 1,430,675; Oct. 3.
- Orem, Frederick S., Baltimore, Md. Carburetor for internal-combustion engines. No. 1,439,573; Dec. 19.
- Orenbuch, Samuel. (See Carmel, Joseph, assignor.)
- Orendorf, Lee J., Mulvane, Kans. Traffic signal. No. 1,405,861; Feb. 7.
- Orendorf, Oliver H., Bloomington, Ill. Latch device. No. 1,424,673; Aug. 1.
- Orenstein, Samuel, Newark, N. J. Wardrobe trunk. No. 1,421,294; June 27.
- Orsard, Carl, Wheelock, assignor of one-half to J. M. Donahue, Williston, N. D. Scraper. No. 1,404,474; Jan. 24.
- Orioka, Sadama, Palama, Honolulu, Hawaii. Endless-chain motor. No. 1,427,544; Aug. 29.
- Oriol, Ramon, Manila, P. I. Aircraft engine. No. 1,437,265; Nov. 28.
- Ormiston, Edward Q., Detroit, Mich. Dirigible headlight. No. 1,408,627; Mar. 7.
- Ormiston, Perley L., Portland, Oreg. Roller skate. No. 1,402,010; Jan. 3.
- Ormsby, Frank E., Chicago, Ill. Washing machine. No. 1,419,300; June 13.
- Ormsby, Frank E., Chicago, assignor to H-B Corporation, Ottawa, Ill. Ironing machine. No. 1,438,715; Dec. 12.
- Ornstein, Leon, Brooklyn, N. Y. Producing color effects. No. 1,410,344; Mar. 21.
- Oro, Magnar, Roxbury, Mass. Screw-driver chuck for drill presses. No. 1,415,687; May 9.
- Oro-Tone Company, The. (See Scottford, Louis K., assignor.)
- O'Rourke, Thomas W. (See Schweikert, C., and O'Rourke.)
- O'Rourke, Charles H., New Orleans, La. Aquarium. No. 1,438,133; Dec. 5.
- O'Rourke, Clement D., Dayton, Ohio. Newspaper box for street cars. No. 1,412,417; Apr. 11.
- Orr, Carey, Chicago, Ill. Golf game. No. 1,403,345; Jan. 10.
- Orr, Carleton A., Pueblo, Colo. Obtaining a combustible mixture of fuel and air. No. 1,434,020; Oct. 31.
- Orr, Carleton A., Pueblo, Colo. Hydrocarbon burner. No. 1,434,021; Oct. 31.
- Orr, Carleton A., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Hydrocarbon-burner apparatus. No. 1,415,384; May 9.
- Orr, Charles L., et al. (See Huff, George R., assignor.)
- Orr, Clifford B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Inner tube for pneumatic tires. No. 1,424,135; July 25.
- Orr, Francis L., and O. H. Jahne, Denver, Colo. Water elevator. No. 1,413,930; Apr. 25.
- Orr, George D., Cincinnati, Ohio. Accessory for automobiles. No. 1,423,730; July 25.
- Orr, Henry A., United States Navy, assignor to Government of the United States. Detecting the course of a ship. No. 1,406,218; Feb. 14.
- Orr, James R., Los Angeles, Calif. Dust cap. No. 1,432,613; Oct. 17.
- Orr, James S., Pocatello, Idaho. Device for opening cans and discharging their contents. No. 1,427,545; Aug. 29.
- Orr, John A., Chicago, Ill. Liquid gauge. No. 1,405,798; Feb. 7.
- Orr, Robert P., Albany, N. Y. Arrow. No. 1,424,674; Aug. 1.
- Orr, Robert J., Woodhaven, assignor of one-half to S. Scammacca, Brooklyn, N. Y. Writing machine. No. 1,439,708; Dec. 26.
- Orr, Walker P., Diana, Tenn. Broom press. No. 1,418,018; May 30.
- Orr, William J. W., Los Angeles, Calif. Pole splicer and tree-limb support. No. 1,439,974; Dec. 26.
- Orr, William T., Highland Park, Mich. Indicator for engines. No. 1,408,393; Feb. 28.
- Orr, William V., Cleveland, Ohio. Suction cleaner. (Re-issue.) No. 15,423; July 25.
- Orrell, Leslie C. (See Parrish, Samuel H., assignor.)
- Orrock, John W., Montreal, assignor of one-half to J. M. R. Fairbairn, Westmont, Quebec, Canada. Weather cover for track scales. No. 1,426,003; Aug. 15.
- Orrville Bedding Company, The. (See Herbert, W. J. S., and Fetzer, assignors.)
- Orsbee Co., The. (See Kennedy, Joseph, assignor.)
- Orsenigo, Henry, Mount Vernon, N. Y. Phonograph. No. 1,414,151; Apr. 25.
- Orsolino, Leocadio G., Manila, P. I. Electric battery electrolyte. No. 1,427,011; Aug. 22.
- Orson, Louis H., Cleveland, Ohio. Nursing bottle. No. 1,440,235; Dec. 26.
- Orstedt, Karl E., Boston, Mass. Holder for ornaments. No. 1,410,075; Mar. 21.
- Örström, Gustaf, assignor to Aktiebolaget Gerh. Arehns Mekaniska Verkstad, Stockholm, Sweden. Machine for packing cigarettes or similar articles. No. 1,403,098; Jan. 10.
- Örström, Gustaf, assignor to Aktiebolaget Gerh. Arehns Mekaniska Verkstad, Stockholm, Sweden. Machine for packing cigarettes or similar articles. No. 1,403,099; Jan. 10.
- Örström, Gustaf, assignor to Aktiebolaget Gerh. Arehns Mekaniska Verkstad, Stockholm, Sweden. Machine for packing cigarettes or similar articles. No. 1,432,355; Oct. 17.
- Ortega, Charles, San Diego, Calif. Packing pimentos. No. 1,434,663; Nov. 7.
- Ortega, Charles, San Diego, Calif. Roasting machine. No. 1,434,634; Nov. 7.
- Ortell, Bertha, St. Paul, Minn. Washboiler attachment. No. 1,411,456; Apr. 4.
- Ortgies, Heinrich, Erfurt, Belgium. Self-loading pistol. No. 1,403,705; Jan. 17.
- Ortgies, Heinrich, Erfurt, Germany. Cartridge magazine. No. 1,437,543; Dec. 5.
- Orth, Henry G., Fulton, N. Y. Crate. No. 1,417,555; May 30.
- Ortiz, Anselmo, Bayonne, N. J., assignor, by mesne assignments, to General Electric Company. Compound metal body and making the same. No. 1,409,017; Mar. 7.
- Ortman, Charles H., Cleveland, Ohio. Self-lubricating bolt. No. 1,428,251; Sept. 5.
- Ortman, Charles H., Cleveland, Ohio. Self-lubricating bolt. No. 1,428,252; Sept. 5.
- Ortman, William H. (See Ely, George B., assignor.)
- Orussa, Lorence, Roanoke, Ill. Toy. No. 1,421,985; July 4.
- Orzechowski, Stanley, assignor to Kohler Die & Specialty Company, De Kalb, Ill. Cream whip. No. 1,438,716; Dec. 12.
- Orzechowski, Adam K., Ellis Island, N. Y. Railway construction. No. 1,406,887; Feb. 14.
- Osberg, Gustaf, Boston, Mass. Tool holder. No. 1,407,764; Feb. 28.
- Osborn, Alden E., New York, N. Y. Internal-combustion engine. No. 1,411,064; Mar. 28.
- Osborn, Alden E., New York, N. Y. Transmission gearing. No. 1,412,214; Apr. 11.
- Osborn, Alden E., New York, N. Y. Packing gland. No. 1,416,232; May 16.
- Osborn, Alden E., New York, N. Y. Internal-combustion engine. No. 1,419,512; June 13.
- Osborn, Alden E., New York, N. Y. Motor vehicle. No. 1,421,545; July 4.
- Osborn, Alden E., New York, N. Y. Motor vehicle. No. 1,423,731; July 25.
- Osborn, Alden E., New York, N. Y. Motor vehicle. No. 1,428,053; Sept. 5.
- Osborn, Alden E., New York, N. Y. Motor vehicle. No. 1,430,676; Oct. 3.
- Osborn, Arthur S., Kansas City, Mo. Power-operated vehicle. No. 1,411,298; Apr. 4.
- Osborn, George W., Bedford, Ohio. Emery-wheel dresser. No. 1,435,022; Nov. 7.
- Osborn, Leon, Zellwood, Fla. Toothbrush. No. 1,407,214; Feb. 21.
- Osborn, Marion M., Lone Tree, N. Dak. Condiment. No. 1,405,070; Jan. 31.

Alphabetical list of patentees—Continued.

- Osborn, Warren M., assignor to Chicago Malleable Castings Company, Chicago, Ill. Rail-anchoring device. No. 1,413,055; Apr. 18.
- Osborne, Blanche G., Corning, Iowa. Typewriter pad. No. 1,417,556; May 30.
- Osborne, Frank M., Anaconda, Mont. Piston ring. No. 1,421,295; June 27.
- Osborne, Harold S., New York, N. Y., assignor to American Telephone and Telegraph Company. Signal-transmitting system. No. 1,405,428; Feb. 7.
- Osborne, Harold S., New York, N. Y., assignor to American Telephone and Telegraph Company. Signaling system. No. 1,406,998; Feb. 21.
- Osborne, Harold S., New York, N. Y., assignor to American Telephone and Telegraph Company. Inductive-interference-suppression device. No. 1,422,470; July 11.
- Osborne, Harold S., New York, N. Y., assignor to American Telephone and Telegraph Company. Multiplex signaling system. No. 1,429,248; Sept. 19.
- Osborne, Harold S., New York, N. Y., assignor to American Telephone and Telegraph Company. Means for and method of avoiding interference. No. 1,432,781; Oct. 24.
- Osborne, John W. (See Taylor, J. W., and Osborne.)
- Osborne, John W., Winchester, assignor of one-half to C. L. Williams, Chapin, Ill. Heater for incubators. No. 1,412,704; Apr. 11.
- Osborne, Lonnie E., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Lubricator. No. 1,423,011; July 18.
- Osborne, Robert E., Hamburg, N. Y. Railway spike. No. 1,416,971; May 23.
- Osburn, Clayton E., assignor of one-half to W. P. Peterson, Davenport, Iowa. Price-card holder. No. 1,403,100; Jan. 10.
- Oschmann, Adolph, Chicago, Ill. Fuel saver. No. 1,415,607; May 9.
- Ose, Yosaku, Tokyo, Japan. Manufacturing rubber shoes. No. 1,430,677; Oct. 3.
- Osgood, Edward C., Aberdeen, Md. Corn-cutting machine. No. 1,408,135; Feb. 28.
- Osgood, John L., Buffalo, N. Y. Hand grip for files. No. 1,415,948; May 16.
- Osgood, Louis A., assignor to American Automatic Scale Company, Chicago, Ill. Weighing apparatus. No. 1,402,087; Jan. 3.
- Osgood, Louis A., assignor to International Scale Company, Dayton, Ohio. Thermostat for portable scales. No. 1,421,825; July 4.
- Osgood, Robert, Torquay, England. Pneumatic tire. No. 1,431,540; Oct. 10.
- Oshanyk, Peter A., Wilton, N. Dak. Door-opening mechanism. No. 1,408,628; Mar. 7.
- Oshanyk, Peter A., Wilton, N. Dak. Timer. No. 1,409,062; Mar. 7.
- Oshkosh, Roy, assignor of one-fourth to S. W. Randolph, Manitowoc, Wis. Sectional radiator. No. 1,423,449; July 18.
- Oshkosh Trunk Company, The. (See Meyer, Frank W., assignor.)
- Oskow, Louis. (See Grebler, W., and Oskow.)
- Oster, Boyd, C., Hazleton, Pa. Crusher roll. No. 1,415,608; May 9.
- Oslund, Charles H. (See Johnson, J. E., and Oslund.)
- Oslund, Charles H., assignor to The O. & J. Machine Company, Worcester, Mass. Stop mechanism for braiding machines. No. 1,434,450; Nov. 7.
- Osmer, John E., Owosso, Mich., assignor of one-half to J. M. Jordan, Punxsutawney, Pa. Force-feed lubricator. No. 1,412,890; Apr. 18.
- Osnes, John, Garner, C. Halverson, Clear Lake, Iowa, and D. S. Foley, Minneapolis, Minn. Waterproof stock feeder. No. 1,419,468; June 13.
- Ostachowicz, Anthony, et al. (See Kozlosky, Theodore, assignor.)
- Ostberg, Anders J., and A. Kenny, Richmond, near Melbourne, Victoria, Australia, assignors to The Standard Rubber Works Proprietary Limited, Melbourne, Australia. Resilient tire. No. 1,411,506; Apr. 4.
- Ostberg, Anders J., and A. Kenny, Richmond, near Melbourne, Victoria, assignors to The Standard Rubber Works Proprietary, Limited, Melbourne, Victoria, Australia. Manufacture of sponge rubber. No. 1,422,884; July 18.
- Osteman, Carl G. (See Blood, C. W. H., and Osteman.)
- Osteman, Carl G., assignor to S. A. Woods Machine Company, Boston, Mass. Chip breaker for woodworking machines. No. 1,404,402; Jan. 24.
- Ostendorf, John A., Baltimore, Md. Resilient vehicle wheel. No. 1,415,265; May 9.
- Oster, Harry E., Toledo, Ohio. Spotlight. No. 1,430,839; Oct. 3.
- Oster, Joseph, Locust Valley, N. Y. Househeating system. No. 1,426,004; Aug. 15.
- Osterberg, Mauritz. (See Osterberg, William and M.)
- Osterberg, William and M., Modesto, Calif. System for draining land. No. 1,432,489; Oct. 17.
- Osterhout, Lyman P., Kenosha, Wis. Swimmer's motor. No. 1,433,563; Oct. 31.
- Osterlind, August F., St. Paul, Minn. Plate-mounting equipment. No. 1,438,717; Dec. 12.
- Osterloh, Joseph P., San Francisco, Calif. Bookbinder. No. 1,411,373; Apr. 4.
- Ostermann, August G., Pleasant Ridge, Mich. Tool holder. No. 1,410,714; Mar. 28.
- Osterweil, Sydney, Newark, N. J. Wardrobe trunk and garment-hanger bracket therefor. No. 1,428,554; Sept. 12.
- Ostler, Francis A., Newark, N. J. Spraying tank. No. 1,430,840; Oct. 3.
- Ostman, Erik A., Port Ludlow, Wash. Folding umbrella. No. 1,436,320; Nov. 21.
- Ostrander, Allen E., Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Brake-beam safety support. No. 1,405,429; Feb. 7.
- Ostrander, Allen E., Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Car bolster and side bearing. No. 1,432,201; Oct. 17.
- Ostrander, Allen E., Ridgewood, N. J., and H. H. Williams, Brooklyn, N. Y., assignors of one-half to American Car and Foundry Company, New York, N. Y. and one-half to Metropolitan Engineering Company, Brooklyn, N. Y. Journal box. No. 1,415,045; May 9.
- Ostrander, Allen E., Ridgewood, N. J., and H. H. Williams, Brooklyn, N. Y., assignors of one-half to American Car and Foundry Company, New York, N. Y. and one-half to Metropolitan Engineering Company, Brooklyn, N. Y. Journal box. No. 1,415,108; May 9.
- Ostrander, Allen E., Ridgewood, N. J., and H. H. Williams, Brooklyn, N. Y., assignors of one-half to American Car and Foundry Company, New York, N. Y. and one-half to Metropolitan Engineering Company, Brooklyn, N. Y. Journal box. No. 1,415,109; May 9.
- Ostrander, Allen E., Ridgewood, N. J., and H. H. Williams, Brooklyn, assignors of one-half to American Car and Foundry Company, New York, N. Y. and one-half to Metropolitan Engineering Company, Brooklyn, N. Y. Journal box. No. 1,432,200; Oct. 17.
- Ostrander, John K., New York, N. Y. Pendulum high-voltage air-break switch. No. 1,414,892; May 2.
- Ostrander, Louise M. (See Kinney, Charles, assignor.)
- Ostrom, Freeland W., Newark, and I. F. Webb, Elizabeth, N. J., assignors to The Singer Manufacturing Company. Thread-cutting mechanism for sewing machines. No. 1,438,548; Dec. 12.
- Ostromislensky, Iwan, Riga, Russia, assignor, by mesne assignments, to New York Belting and Packing Company. Vulcanizing rubber and products obtained thereby. No. 1,433,093; Oct. 24.
- Ostrov, Abram L., Llandrindod Wells, Wales. Hypodermic syringe. No. 1,402,011; Jan. 3.
- O'Sullivan, Denis J., Rome, N. Y. Combination lock. No. 1,436,285; Nov. 21.
- Osuna, José R., Philadelphia, Pa. Animal trap. No. 1,409,884; Mar. 14.
- Oswald, Alfred E., Schenectady, assignor to Underwood Typewriter Company, New York, N. Y. Typewriter stroke and word counting and signaling device and speed indicator. No. 1,411,579; Apr. 4.
- Oswald, Alfred E., Bogota, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,438,718; Dec. 12.
- Oswald, Arthur A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Portable radiating system. No. 1,418,729; June 6.
- Oswald, Earl P., Detroit, Mich. Generating plant. No. 1,415,385; May 9.
- Oswald, Earl P., Detroit, Mich., assignor to Utility Compressor Company. Fluid compressor. No. 1,431,593; Oct. 10.
- Oswald, Peter J., Bay City, Mich. Road-grading machine. No. 1,431,594; Oct. 10.
- Oswald, Richard W., Pittsburgh, Pa. Fan wheel. No. 1,423,964; July 25.
- Oswald, Sylvester J., Milwaukee, Wis. Form for concrete construction. No. 1,430,108; Sept. 26.
- Otake Fabric Company, The. (See Lorenz, William A., assignor.)
- Otis, Chandler R., San Francisco, Calif. Valve-grinding tool. No. 1,439,440; Dec. 19.
- Otis Elevator Company. (See Furlow, Floyd C., assignor.) (Reissue.)
- Otis Elevator Company. (See John, Griffith, assignor.)
- Otis Elevator Company. (See Lindquist, David L., assignor.)
- Otis, Spencer. (See Townsley, A. W., and Otis.)
- Otis, Spencer, Chicago, Ill. Locomotive-terminal fire-drawing station. No. 1,413,346; Apr. 18.
- Otis, Spencer, assignor to National Boiler Washing Company, Chicago, Ill. Apparatus for washing out and refilling boilers. No. 1,418,092; May 30.
- Otis, Spencer, and F. S. Wichman, assignors to National Boiler Washing Company, Chicago, Ill. Locomotive blow-off and refill system. No. 1,435,655; Nov. 14.
- O'Toole, Raymond J., Detroit, Mich. Toy picture exhibitor. No. 1,433,564; Oct. 31.
- O'Toole, Richard. (See Freeman, S., and O'Toole.)
- Otreba, John. (See Grochal, F., and Otreba.)
- Otremba, Frank, Burgettstown, assignor of one-half to A. Tarka, Cherry Valley, Pa. Dirigible headlight. No. 1,437,544; Dec. 5.
- Ott, Harvey N., and F. H. Bufton, assignors to Spencer Lens Co., Buffalo, N. Y. Projection apparatus. No. 1,408,027; Feb. 28.
- Ott, Harvey N., and F. H. Bufton, assignors to Spencer Lens Company, Buffalo, N. Y. Projection apparatus. No. 1,424,847; Aug. 8.

Alphabetical list of patentees—Continued.

- Ott, Joseph S., U. S. Army. Securing means for spiral puttees and the like. No. 1,402,952; Jan. 10.
- Ott, Lyman E., Oakford, Ill. Rotary brush. No. 1,410,074; Mar. 21.
- Ott, William C. P., assignor to The Born Steel Range Company, Cleveland, Ohio. Stove construction. No. 1,430,678; Oct. 3.
- Otten, Anthony J. (See Stengel, Herman, assignor.)
- Otten, Oscar A. (See Carter, F. R., Otten, and Willard.)
- Otterson Auto-Eductor Co., The. (See Otterson, George W., assignor.)
- Otterson, George W., Seattle, Wash., assignor to The Otterson Auto-Eductor Co., Springfield, Ohio. Cleaning out city catch basins. No. 1,437,006; Nov. 28.
- Otterson, George W., Seattle, Wash., assignor to The Otterson Auto-Eductor Co., Springfield, Ohio. Apparatus for cleaning sewer catch basins. No. 1,437,007; Nov. 28.
- Otterson, George W., Seattle, Wash., assignor to The Otterson Auto-Eductor Co., Springfield, Ohio. Traveling apparatus for cleaning basins. No. 1,437,008; Nov. 28.
- Otterson, Oscar. (See Moeller, R., and Otterson.)
- Otterstedt, Hans C., Svalof, Sweden. Production of oat groats and the like. No. 1,423,450; July 18.
- Otting, Karl, assignor to the Firm: Maschinen für Massenverpackung G. m. b. H., Berlin, Germany. Apparatus for delivering fastening strips for wrapping machines. No. 1,409,063; Mar. 7.
- Ottinger, Leon, New York, N. Y. Separable fastener. No. 1,411,580; Apr. 4.
- Ottinger, Leon, New York, N. Y. Handle-attaching means for door latches. No. 1,411,581; Apr. 4.
- Ottinger, Leon, New York, N. Y. Jig for forming handle holes in doors or the like. No. 1,412,037; Apr. 11.
- Ottinger, Leon, New York, N. Y. Fastening device. (Reissue.) No. 15,412; July 18.
- Ottinger, Leon, New York, N. Y. Latch. No. 1,436,050; Nov. 21.
- Ottinger, Nathan, New York, N. Y. Correspondence device. No. 1,412,668; Apr. 11.
- Ottinger, Nathan, New York, N. Y. Correspondence device. No. 1,412,669; Apr. 11.
- Ottman, Fred, Jersey City, N. J. Thermal insulator for fireproofing and heat-conservation purposes. No. 1,435,416; Nov. 14.
- Ottman, Robert E., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Protective device. No. 1,406,681; Feb. 14.
- Ottman, Robert E., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Insulating material and making same. No. 1,418,730; June 6.
- Ottmyer, Edgar F. (See Swartz, T. A., and Ottmyer.)
- Otto, Albert. (See Brushwiler, R., and Otto.)
- Otto, Charles D., Richmond Hill, N. Y. Block pavement for highways. No. 1,432,202; Oct. 17.
- Otto, Charles D., Brooklyn, N. Y. Binder for packing cases. No. 1,432,203; Oct. 17.
- Otto, Edgar W., assignor to Leather Products and Finishing Co., Los Angeles, Calif. Stationery attachment. No. 1,430,841; Oct. 3.
- Otto, Herman, Jackson, Mich. Cultivator shield. No. 1,419,687; June 13.
- Ottolenghi-Wedekind, Herta, Genova, Italy. Manufacturing design cards. No. 1,422,885; July 18.
- Ottolini, Cyrril, Calistoga, Calif. Fort disappearing gun. No. 1,422,206; July 11.
- Ottwell, Percy C. (See Schmidt, L. L., Beuchel, and Ottwell.)
- Oubridge, William A., Coventry, England. Rotary casting-machine mold. No. 1,418,826; June 6.
- Ouellette, Eugene G., Lebanon, N. H. Phonograph-record cabinet. No. 1,439,441; Dec. 19.
- Ouellette, John B., New Bedford, Mass. Stop mechanism for looms. No. 1,408,773; Mar. 7.
- Ouellette, John B., New Bedford, Mass. Stop mechanism for looms. No. 1,410,831; Mar. 28.
- Ouellette, Victor G., Clodford, Alberta, Canada. Hayrack unloader. No. 1,465,862; Feb. 7.
- Oulton, Charles B., Attleboro, Mass. Rose-engine-turning machine. No. 1,428,801; Sept. 12.
- Ourađnik, Joseph W., Kewaunee, Wis. Snow plow and roller. No. 1,436,286; Nov. 21.
- Outhier, Louis T., Eureka, Calif. Trolley. No. 1,407,353; Feb. 21.
- Outing Kumfy Kab Company. (See Brown, Reinhardt II., assignor.)
- Outlook Company, The. (See Williams, John II., assignor.)
- Outman, Orr K., Richmond, Calif., assignor to Certain-Teed Products Corporation, St. Louis, Mo. Making strip shingles. No. 1,426,497; Aug. 22.
- Ouverson, Henry H., Hanlontown, Iowa. Pump stand or head. No. 1,435,417; Nov. 14.
- Overholt, Miles, Los Angeles, Calif. Doll. No. 1,431,482; Oct. 10.
- Overlander, Jacob A., New York, N. Y. Multiple tire valve for vehicles. No. 1,433,643; Oct. 31.
- Overlock, Russell F., and L. B. Duntley, Minneapolis, Minn. Washing machine. No. 1,430,749; Oct. 3.
- Ovenshire, Charles E., et al. (See Brown, Theodore H., assignor.)
- Ovenshire, Edward C., et al. (See Brown, Theodore H., assignor.)
- Overboe, Ellert C., Kenyon, Minn. Spring wheel. No. 1,413,608; Apr. 25.
- Overbury, Frederick C., Hillsdale, N. J., assignor to The Flintkote Company, Boston, Mass. Nail. No. 1,410,076; Mar. 21.
- Overbury, Frederick C., Hillsdale, N. J., assignor, by mesne assignments, to The Flintkote Company, Boston, Mass. Machine for making shingle strips. (Reissue.) No. 15,328; Apr. 4.
- Overbury, Frederick C., Hillsdale, N. J., assignor to The Flintkote Company, Boston, Mass. Ornamental roofing. No. 1,418,456; June 6.
- Overbury, Frederick C., Hillsdale, N. J., assignor to The Flintkote Company, Boston, Mass. Machine for making ornamental roofing. No. 1,419,169; June 13.
- Overman, James F., Wilkinson, Ind. Motor vehicle. No. 1,402,175; Jan. 3.
- Overshiner, Timothy T., Marion, Ind. Tire. No. 1,413,291; Apr. 18.
- Overson, James, Big Lake, Wash. Collapsible-stake log bunk. No. 1,413,540; Apr. 18.
- Overstrom, Gustave A., Pasadena, Calif. Centrifugal ore crusher. No. 1,405,151; Jan. 31.
- Overstrom, Gustave A., Pasadena, Calif. Concentrator. No. 1,417,681; May 30.
- Overstrom, Gustave A., Pasadena, Calif. Ore-concentrating table. No. 1,417,682; May 30.
- Overton, John H. (See Roberts, H. W., and Overton.)
- Overturn, Norman F., London, Ohio. Flying machine. No. 1,407,079; Feb. 21.
- Overturn, Norman F., Cleveland, Ohio. Propeller for airplanes and the like. No. 1,407,080; Feb. 21.
- Overwyn, Jacques F., Oilfields, Calif. Automatic variable-speed transmission. No. 1,404,475; Jan. 24.
- Oveson, Carl A., assignor to H. S. Mills, Chicago, Ill. Carving machine. No. 1,435,619; Nov. 14.
- Ovren, John E., assignor of one-half to J. Johnson, Stoughton, Wis. Transmission mechanism. No. 1,436,817; Nov. 28.
- Owen, Archibald C. (See Hosch, G. C., and Owen.)
- Owen Bucket Company, The. (See Botten, Henry W., assignor.)
- Owen, Charles F., assignor to Rundle-Spence Manufacturing Co., Milwaukee, Wis. Drinking fountain. No. 1,421,296; June 27.
- Owen, Edward W., New York, N. Y. Safety envelope. No. 1,412,705; Apr. 11.
- Owen, Ernest V., assignor to The Hoover Company, Chicago, Ill. Process and apparatus for catalyzing oils and revivifying the catalyst. No. 1,427,626; Aug. 29.
- Owen, Ernest V., assignor to The Hoover Company, Chicago, Ill. Separating hydrocarbon from aluminum chloride. No. 1,430,109; Sept. 26.
- Owen, Evan J., assignor to Etowah Foundry and Machine Company, Gadsden, Ala. Sanitary closet. No. 1,421,297; June 27.
- Owen, F. Newton. (See Owen, Fletcher, assignor.)
- Owen, Fletcher, assignor to F. N. Owen, Toledo, Ohio. Thrasher. No. 1,426,498; Aug. 22.
- Owen, Harry E., Muncie, Ind. Light-shading device. No. 1,420,443; June 20.
- Owen, Ira J., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Nozzle or nozzle block for vacuum cleaners. No. 1,404,888; Jan. 31.
- Owen, Ira J., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Suction cleaner. No. 1,404,889; Jan. 31.
- Owen, John D., Harriman, Tenn. Vehicle-handling apparatus. No. 1,425,045; Aug. 8.
- Owen, Richard B., Washington, D. C. Mounting for outboard motors. No. 1,421,710; July 4.
- Owen, Robert H., Butte, Mont. Thrashing machine. No. 1,402,534; Jan. 3.
- Owen, Robert H., assignor of one-third to E. F. Maginn and one-sixth to M. H. Gleason, Butte, Mont. Cylinder for thrashing machines. No. 1,424,933; Aug. 8.
- Owen, Roy P., Waukesha, Wis., and D. B. Straley, Crown Point, Ind. Railway-rail joint. No. 1,439,574; Dec. 19.
- Owen, William L., assignor, by mesne assignments, to Penick & Ford, Ltd., Incorporated, New Orleans, La. Preservation in storage of sirups and molasses. No. 1,418,457; June 6.
- Owen, William W., Oak Park, assignor to Automatic Electric Company, Chicago, Ill. Calling device for an automatic telephone system. No. 1,435,253; Nov. 14.
- Owen, Willie. (See Melloy, J. H., and Owen.)
- Owens Bottle Company, The. (See Bragg, Thomas A., assignor.)
- Owens Bottle Company, The. (See Graham, Joseph B., assignor.)
- Owens Bottle Company, The. (See La France, Richard, assignor.)
- Owens Bottle Company, The. (See Lott, Clyde R., assignor.)
- Owens Bottle Company, The. (See Marvin, Henry C., assignor.)
- Owens Bottle Company, The. (See Press, R. W., and Schwenzfeier, assignor.)
- Owens Bottle Company, The. (See Rule, John F., assignor.)
- Owens Bottle Company, The. (See Soubier, Leonard D., assignor.)

- Owens, Charles, Chattanooga, Tenn. Gear drive for traction wheels and jack shafts. No. 1,405,430; Feb. 7.
- Owens, Francis T. (See Pierce, T. W., Owens, and Taylor.)
- Owens, Frank R., Beaver Crossing, Nebr. Combination pump jack. No. 1,431,028; Oct. 3.
- Owens, Harry S. (See Eddison, W. B., and Owens.)
- Owens, James P., Weatherford, Tex. Insect destroyer. No. 1,435,656; Nov. 14.
- Owens, Jesse C., Los Angeles, Calif. Muffler toilet valve. No. 1,426,093; Aug. 15.
- Owens, Jesse C., Los Angeles, Calif. Muffler toilet tank. No. 1,426,094; Aug. 15.
- Owens, John B. (See Ogden, Ellsworth P., assignor.)
- Owens, John H., Racine, Wis. Trap or clean-out cover. No. 1,413,236; Apr. 18.
- Owens, Matthew B., Napavine, Wash. Concrete-block machine. No. 1,410,832; Mar. 28.
- Owens, Owen, Berkeley Station, Va. Puzzle. No. 1,413,186; Apr. 18.
- Owens, P. G., et al., trustees. (See Inghram, Howard T., assignor.)
- Owens, Percy R., Mount Kisco, N. Y. Temperature-controlling system. No. 1,422,886; July 18.
- Owens, Ralph H., Lincoln, Nebr. Wrench. No. 1,423,142; July 18.
- Owens, Richard L., Minneapolis, Minn. Grain-feeding spreader. No. 1,422,297; July 11.
- Owens, Richard L., Minneapolis, Minn. Grain separator. No. 1,422,298; July 11.
- Owens, Richard L., Minneapolis, Minn. Grain separator. No. 1,422,299; July 11.
- Owens, Thomas J., Oakland, Calif. Utility clamp. No. 1,426,108; Nov. 21.
- Owens, William H., Evans City, and J. L. Taylor, West View, Pa. Dredge hull. No. 1,430,179; Sept. 26.
- Owler, Thomas D., and H. S. Gordon, assignors to Heywood-Wakefield Company, Wakefield, Mass. Car seat. No. 1,429,368; Sept. 19.
- Owsianiecki, Karol, Baltimore, Md. Water bicycle. No. 1,409,965; Mar. 21.
- Oxley, Charles, Sheffield, England. Apparatus for filing the surface of tramway rails and the like. No. 1,437,190; Nov. 28.
- Oxley, Walter T., Fergus Falls, Minn. Film clip. No. 1,415,189; May 9.
- Oxweld Railroad Service Company, The. (See Hasse, Frank C., assignor.)
- Oyler, Charles E. (See Stenger, J. B., McCaffray, and Oyler.)
- Oyston, William R. (See Thomson, H., and Oyston.)
- Ozabal, Rudolph, Chicago, Ill. Ash receptacle. No. 1,423,538; July 25.
- Ozone Pure Airifier Company. (See Haase, Arthur P., assignor.)
- P-A-T-S Manufacturing Company. (See Will, Victor R.)
- P & M Company, The. (See Blair, Rolandis A., assignor.)
- P & M Company, The. (See Henggi, Lewis O., assignor.) (Reissue.)
- P & M Company, The. (See Mitchell, William M., assignor.)
- P & M Company, The. (See Moore, Philip W., assignor.)
- P & M Company, The. (See Preston, Frederick A., assignor.)
- P & M Company, The. (See Warr, Harold G., assignor.)
- P. R. Glass Company. (See Jones, Charles H., assignor.)
- P-W-V Automatic Machine Corporation. (See Loomis, F. C., and Waite, assignors.)
- Paasche, Jens A., Chicago, Ill. Painting-booth apparatus. No. 1,418,731; June 6.
- Pabodie, Robert J., Maywood, Ill., assignor to The Griscom Russell Company, New York, N. Y. Storage heater. No. 1,425,273; Aug. 8.
- Pabodie, Robert J., Maywood, Ill., assignor to The Griscom Russell Company, New York, N. Y. Water heater. No. 1,430,679; Oct. 3.
- Pabst, Frances M., administratrix. (See Tynan, Daniel F.)
- Pabst, Fred, Company. (See Fay, Joseph W., assignor.)
- Pabst, Josef, Zurich, Switzerland. Cloth holder. No. 1,424,209; Aug. 1.
- Pace, Augustus G., Seattle, Wash. Gas and oil engine. No. 1,404,718; Jan. 24.
- Pace, Vara L., Beaumont, Tex. Player piano. No. 1,405,152; Jan. 31.
- Pacelli, Angelo, et al. (See MacAskill, Daniel A., assignor.)
- Pacey, William, Dunedin, New Zealand. Hand shears. No. 1,415,609; May 9.
- Pachesa, Peter C., Taylor Springs, Ill. Window-screen adjuster. No. 1,417,104; May 23.
- Pacific Car & Foundry Co. (See Chriswell, Frederick W., assignor.)
- Pacific Car & Foundry Co. (See Falco, Frank T., assignor.)
- Pacific Car & Foundry Co. (See Jarvis, Herbert C., assignor.)
- Pacific Car & Foundry Co. (See Ross, John C., assignor.)
- Pacific Car & Foundry Company. (See Sessoms, Hugh W., assignor.)
- Pacific Coast Biscuit Company. (See Predmore, Harvey H., assignor.)
- Pacific Fire Extinguisher Company. (See Reid, Henry C., assignor.)
- Pacific Flush Tank Company. (See Tark, Marcus B., assignor.)
- Pacific Foundry Company. (See Fowler, E. J., and Kellie, assignors.)
- Pacific Manufacturing & Electric Co. (See Heiser, Charles J., assignor.)
- Pacific Mill & Mine Supply Company. (See Folsom, Ernest B., assignor.)
- Pacific Mutual Investment Co. (See Flateboe, Einar I., assignor.)
- Pacific R. & H., Chemical Corporation, The. (See Brown, Mortimer J., assignor.)
- Pacific Sanitary Manufacturing Company. (See Gable, Benjamin F., assignor.)
- Pacific Spring Bed Co. (See Stackhouse, George, assignor.)
- Pack, Charles, New York, assignor to Doehler Die Casting Company, Brooklyn, N. Y. Die-casting process. No. 1,416,412; May 16.
- Pack, Walter, Takoma Park, Md., assignor to C. A. Rogers, Hartford, Conn. Magazine film and plate holder for cameras. No. 1,419,406; June 13.
- Pack, Walter, Takoma Park, Md., assignor to C. A. Rogers, Hartford, Conn. Sensitized-element package for photographic apparatus. No. 1,424,736; Aug. 1.
- Packard, Alden H., Woburn, assignor to one-half to J. D. Robbins, Boston, Mass. Gate lifting and releasing mechanism for elevators. No. 1,425,332; Aug. 8.
- Packard, Horace N., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Fluid meter. No. 1,416,572; May 16.
- Packard, Horace N., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Apparatus for proportioning flowing fluids. No. 1,437,611; Dec. 5.
- Packard Motor Car Company. (See Anderson, Raymond M., assignor.)
- Packard Motor Car Company. (See Be Gole, James, assignor.)
- Packard Motor Car Company. (See Church, H. D., and Gunn, assignors.)
- Packard Motor Car Company. (See Church, Harold D., assignor.)
- Packard Motor Car Company. (See Dewey, Frank H., assignor.)
- Packard Motor Car Company. (See Doolittle, Henry P., assignor.)
- Packard Motor Car Company. (See Druar, Frank J., assignor.)
- Packard Motor Car Company. (See Galloway, Robert B., assignor.)
- Packard Motor Car Company. (See Gauthier, Adolard J., assignor.)
- Packard Motor Car Company. (See Gunn, Earl G., assignor.)
- Packard Motor Car Company. (See Hammerl, Jacob, assignor.)
- Packard Motor Car Company. (See Hill, Lewis C., assignor.)
- Packard Motor Car Company. (See Hunt, Ormond E., assignor.)
- Packard Motor Car Company. (See Jolls, Le Roy E., assignor.)
- Packard Motor Car Company. (See Knapp, Archer L., assignor.)
- Packard Motor Car Company. (See McCain, George L., assignor.)
- Packard Motor Car Company. (See Moorhouse, Alfred, assignor.)
- Packard Motor Car Company. (See Peterson, Walter C., assignor.)
- Packard Motor Car Company. (See Rider, William K., assignor.)
- Packard Motor Car Company. (See Robinson, Frederick R., assignor.)
- Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
- Packard Motor Car Company. (See Waldon, Sidney D., assignor.)
- Packard Motor Car Company. (See Wieneke, Eric F., assignor.)
- Packard Motor Car Company. (See Woolson, Harry T., assignor.)
- Packard Motor Car Company. (See Woolson, Lionel M., assignor.)
- Packer, Glenn W., assignor to Goodman Manufacturing Company, Chicago, Ill. Gathering reel. No. 1,438,394; Dec. 12.
- Packer, Mortimer L., Columbus, Ohio. Fuel mixer. No. 1,420,277; June 20.
- Packers Machinery & Equipment Co. (See Jordan, Robert E., assignor.)
- Packer's Meat Smoking Corporation. (See Alsop, James N., assignor.)
- Pacz, Aladar, Cleveland, Ohio, assignor to General Electric Company. Metal and its manufacture. No. 1,410,499; Mar. 21.
- Pacz, Aladar, Cleveland, Ohio, assignor to General Electric Company. Producing alloys. No. 1,402,088; Jan. 3.
- Paddison, Eugene W., Mount Airy, N. C. Jeweler's loupe. No. 1,424,848; Aug. 8.
- Paddock, Richard B., Fort Sill, Okla. Detachable link for vehicle-wheel antiskid chains. No. 1,418,392; June 6.
- Paddock, William W., Kansas City, Kans. Band-saw guide. No. 1,415,386; May 9.

Alphabetical list of patentees—Continued.

- Pade, Max H., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Conveyor. No. 1,415,688; May 9.
- Padgett, George H., Edwards, N. Y. Road construction. No. 1,406,068; Feb. 7.
- Pachet, Hugo C., New Haven, Conn. Safety device for foot presses. No. 1,407,765; Feb. 28.
- Paetta, Santin P., New York, N. Y. Trap. No. 1,421,298; June 27.
- Pafford, Roscoe R., Wichita Falls, Tex. Adjustable square and miter. No. 1,429,765; Sept. 19.
- Pagano, Gaetano, Brooklyn, N. Y. Window shade. No. 1,402,176; Jan. 3.
- Page, Albert E., Brooklyn, N. Y., assignor to Scott & Williams, Incorporated, Boston, Mass. Yarn-holding device for knitting machines. No. 1,436,521; Nov. 21.
- Page, Edwin L., Kingsley, Iowa. Ventilated block. No. 1,404,161; Jan. 17.
- Page, Edwin L., Kingsley, Iowa. Core for making ventilated blocks. No. 1,422,370; July 11.
- Page, Edwin L., Kingsley, Iowa. Ventilated corncrib-floor mold. No. 1,422,371; July 11.
- Page, Frederick H., assignor to Handley Page Limited, London, England. Wing and similar member of aircraft. No. 1,414,200; Apr. 25.
- Page, Frederick H., assignor to Handley Page Limited, London, England. Means for balancing and regulating the lift of aircraft. No. 1,422,614; July 11.
- Page, Frederick H., assignor to Handley Page Limited, London, England. Means for balancing and regulating the lift of aircraft. No. 1,422,615; July 11.
- Page, Frederick H., assignor to Handley Page Limited, London, England. Means for balancing and regulating the lift of aircraft. No. 1,422,616; July 11.
- Page, Frederick H., assignor to Handley Page Limited, London, England. Wing and similar member of aircraft. No. 1,427,012; Aug. 22.
- Page, Frederick H., assignor to Handley Page Limited, London, England. Wing for aircraft. No. 1,433,030; Oct. 24.
- Page, John C., San Francisco, Calif. Shaving brush. No. 1,406,483; Feb. 14.
- Page, Ralph E., Binghamton, N. Y., assignor to The Tabulating Machine Company. Single-column selector for card-sorting machines. No. 1,426,499; Aug. 22.
- Page, Stephen E., Brooklyn, assignor to United Concrete Pipe Co., New York, N. Y. Pipe joint. No. 1,424,586; Aug. 1.
- Page, Victor W., New York, N. Y. Adjustable steering wheel. No. 1,402,535; Jan. 3.
- Page, Victor W., New York, N. Y. Fly wheel. No. 1,407,568; Feb. 21.
- Page, Victor W., New York, N. Y. Fan drive. No. 1,411,126; Mar. 28.
- Page, Victor W., New York, N. Y. Vehicle body and seat. No. 1,411,978; Apr. 4.
- Page, Victor W., New York, N. Y. Fuel tank. No. 1,419,896; June 13.
- Page, Victor W., New York, N. Y. Pinion-shaft housing. No. 1,420,497; June 20.
- Page, Victor W., New York, N. Y. Spring suspension. No. 1,423,451; July 18.
- Page, Victor W., New York, N. Y. Adjustable foot pedal. No. 1,425,413; Aug. 8.
- Page, Victor W., New York, N. Y. Brake drum. No. 1,425,414; Aug. 8.
- Page, Victor W., New York, N. Y. Piston. No. 1,428,492; Sept. 5.
- Page, Victor W., New York, N. Y. Main-bearing lubricator. No. 1,440,314; Dec. 26.
- Page, Webster M., Garland, N. C. Bearing gauge. No. 1,439,321; Dec. 19.
- Page & Hill Company. (See Lynch, James E., assignor.)
- Pagel, Fred, Rockford, Ill. Poultry fountain. No. 1,402,953; Jan. 10.
- Pagel, Louis, Stillwater, Minn. Snowplow. No. 1,407,947; Feb. 28.
- Pagel, Louis, Forestville, Wis. Gathering and cocking machine. No. 1,416,972; May 23.
- Pagel, William F., Sycamore, Ill. Washing machine. No. 1,402,372; Jan. 3.
- Pagel, William F., Sycamore, Ill. Plumber's torch. No. 1,409,232; Mar. 14.
- Pagel, William F., Sycamore, Ill. Internal-combustion engine. No. 1,439,377; Dec. 19.
- Pahlka, Herman J., San Francisco, Calif. Marcel iron. No. 1,412,485; Apr. 11.
- Paige, Arthur E., Philadelphia, Pa. Steering wheel. No. 1,416,413; May 16.
- Paige, Frank L., Brawley, Calif. Plow or disk harrow. No. 1,419,585; June 13.
- Paige, James H., Manchester, N. H. Cover for preserving jars. No. 1,425,212; Aug. 8.
- Paige, Jason, Evanston, Ill. Track switch. No. 1,423,965; July 25.
- Paige-Detroit Motor Car Company. (See Jandasek, Joseph, assignor.)
- Painchaud, Romeo E., et al. (See Marion, Frank, assignor.)
- Paine, Arthur P., assignor to Winchester Repeating Arms Company, New Haven, Conn. Battery hand-lamp switch. No. 1,437,476; Dec. 5.
- Paine, George L. (See Chabot, Joseph O., assignor.)
- Paine, George W., Spokane, Wash. Lacing device. No. 1,412,486; Apr. 11.
- Paine, Howard S., and J. Hamilton, Washington, D. C., dedicated, by mesne assignments, to the People of the United States. Preparing fondant or chocolate soft cream centers. No. 1,437,816; Dec. 5.
- Paine, Marshall H. (See Smith, H., and Paine.)
- Paine, William E. (See Carroll, James A., assignor.)
- Painter, Albert E. (See Dobbs, C., and Painter.)
- Paisseau, Jean, Paris, France. Manufacturing of artificial pearls and other nacreous objects. No. 1,433,395; Dec. 12.
- Pajalic, Antonio, Dearborn, Mich. Air washer. No. 1,411,374; Apr. 4.
- Pajalic, Antonio, Detroit, Mich. Timer. No. 1,434,747; Nov. 7.
- Pajean, Charles H., Evanston, Ill. Doll bag. No. 1,407,165; Feb. 21.
- Pakeman, Harry, Camden, N. J. Record disk for graphophones and forming same. No. 1,409,568; Mar. 14.
- Pako Corporation. (See Dye, Glen M., assignor.)
- Palaith, George J., Chicago, Ill. Target game. No. 1,413,770; Apr. 25.
- Palen, Frank A., New York, N. Y. Building construction. No. 1,421,299; June 27.
- Paley Engineering Company. (See Paley, Lewis A., assignor.)
- Paley, Lewis A., Manhasset, assignor to Paley Engineering Company, New York, N. Y. Apparatus for the manufacture of soap. No. 1,413,870; Apr. 25.
- Palkin, Samuel, Stamford, Conn., dedicated, by mesne assignments, to the People of the United States. Making photographic sensitizing dyes of the dicyanine type. No. 1,437,674; Dec. 5.
- Palm, Per W., Baudette, Minn. Runner attachment for motor vehicles. No. 1,404,052; Jan. 17.
- Palma, Frederic J., Denver, Colo., assignor to The Universal Coal Machine Company, Phoenix, Ariz. Rock-cutting machine. No. 1,419,980; June 20.
- Palmaffy, Nicholas, West Orange, N. J. Valve. No. 1,423,966; July 25.
- Palmer, Albert E., & Sons. (See Palmer, Harry B., assignor.)
- Palmer, Charles G., Newark, N. J. Combination wrench. No. 1,402,373; Jan. 3.
- Palmer, Charles G., Newark, N. J. Toy pistol. No. 1,407,166; Feb. 21.
- Palmer, Charles G., Newark, N. J. Door latch. No. 1,408,629; Mar. 7.
- Palmer, Charles G., Newark, N. J. Socket wrench. No. 1,410,032; Mar. 21.
- Palmer, Charles L., and J. R. Hollister, assignors to Rollemout Manufacturing Company, Sleepy Eye, Minn. Wild-pea separator. No. 1,415,610; May 9.
- Palmer, Charles S., Pittsburgh, Pa. Making hydrogen. No. 1,403,189; Jan. 10.
- Palmer, Charles S., Pittsburgh, Pa. Making sulphur-free water gas. No. 1,405,863; Feb. 7.
- Palmer, Dennis J. (See Woods, J. D., and Palmer.)
- Palmer, Edgar J., Wichita, Kans. Card holder. No. 1,419,301; June 13.
- Palmer, Edgar M., Hartford, Conn. Woodworking machine. No. 1,435,329; Nov. 14.
- Palmer Electric & Manufacturing Company, The. (See Jessen, John A., assignor.)
- Palmer Electric & Manufacturing Company, The. (See Palmer, Granville E., assignor.)
- Palmer, Elias H., Charleston, S. C. Monotrack trolley plane. No. 1,415,190; May 9.
- Palmer, Everett C., St. Charles, Mo. Pivoted folding table leg. No. 1,429,969; Sept. 26.
- Palmer, Frank. (See Palmer, Fred and F.)
- Palmer, Fred and F., Spokane, Wash. Treatment of metals. No. 1,433,408; Oct. 24.
- Palmer, George H., assignor to Dail Steel Products Company, Lansing, Mich. Ball-bearing disk wheel. No. 1,408,825; Mar. 7.
- Palmer, George H., assignor to Dail Steel Products Company, Lansing, Mich. Disk wheel. No. 1,420,337; June 20.
- Palmer, George H., assignor to Dail Steel Products Company, Lansing, Mich. Wagon. No. 1,434,839; Nov. 7.
- Palmer, Granville E., assignor to The Palmer Electric & Manufacturing Company, Boston, Mass. Service switch. No. 1,417,940; May 30.
- Palmer, Harry B., assignor to Albert E. Palmer & Sons, Owosso, Mich. Clamp machine. No. 1,420,941; June 27.
- Palmer, Herman D., Hartford, Wis., assignor to Kissel Motor Car Company. Spring hanger. No. 1,414,748; May 2.
- Palmer, James A., Jamaica Plain, Mass. Liquid polish for metallic and other surfaces. No. 1,425,046; Aug. 8.
- Palmer, Joe C., Fort Worth, Tex. Gas valve. No. 1,410,218; Mar. 21.
- Palmer, John M., Springfield, Mass. Automobile lock. No. 1,426,666; Aug. 22.
- Palmer, Lafayette, Harrisburg, Pa. Hose clamp. No. 1,419,897; June 13.
- Palmer, Leon W., Unity Station, Pa. Loading apparatus. No. 1,408,136; Feb. 28.

- Palmer, Louis H., Hurdsville, N. Dak. Starting device for elevators. No. 1,414,040; Apr. 25.
- Palmer, Louis H., Hurdsville, N. Dak. Dumping platform. No. 1,433,644; Oct. 31.
- Palmer, Lyndon C., assignor to F. N. Burt Company, Limited, Buffalo, N. Y. Container. No. 1,426,500; Aug. 22.
- Palmer, Martin J., Chicago, Ill. Pocketbook protector. No. 1,423,539; July 25.
- Palmer, Montague, Tenady, N. J. Toy airplane. No. 1,412,418; Apr. 11.
- Palmer, Percy W., Edgerton, Wis. Motion-picture machine. No. 1,425,538; Aug. 15.
- Palmer, Richard. (See Stokes, Alfred P., assignor.)
- Palmer, Richard, Teaneck, N. J. Inhaling device. No. 1,431,177; Oct. 10.
- Palmer, Stanley W., assignor to S. McClure, Beaver Dam, Wis. Top-back bracket. No. 1,404,315; Jan. 24.
- Palmer, Stanley W., assignor to S. McClure, Beaver Dam, Wis. Attaching device for stoves. No. 1,413,992; Apr. 25.
- Palmer, Stanley W., assignor to S. McClure, Beaver Dam, Wis. Hinge for stoves and ranges. No. 1,423,012; July 18.
- Palmer, Verne T., Tuscarora, N. Y. Tire chain. No. 1,410,715; Mar. 28.
- Palmer, Willard D., New London, Conn. Truss. No. 1,438,501; Dec. 12.
- Palmer-Jones, Daniel, assignor to The Tubular Scaffolding Company, Limited, London, England. Clamping device for scaffolding or the like temporary erections. No. 1,437,266; Nov. 28.
- Palmer-Bee Company. (See Bee, W. E., and Simpson, assignors.)
- Palmer-Bee Company. (See Bee, William E., assignor.)
- Palmer-Bee Company. (See McBride, Jesse E., assignor.)
- Palmer-Bee Company. (See Simpson, William E., assignor.)
- Palmerlee, Frank C. (See Heth, L. S., and Palmerlee.)
- Palmgren, Carl A., Chicago, Ill. Drill chuck. No. 1,425,213; Aug. 8.
- Palmgren, Nils A., Gottenborg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken. Nut lock. No. 1,420,737; June 27.
- Palmgren, Nils A., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Shock indicator. No. 1,438,462; Dec. 12.
- Palmolive Company, The. (See Raynor, Harold H., assignor.)
- Palmolive Company, The. (See Schwantes, Julius, assignor.)
- Palmowski, Stanislaus, New York, N. Y. Packing and boxing machine. No. 1,406,219; Feb. 14.
- Palomba, Frederick W. (See Perrotti, Charles, assignor.)
- Palt, Walter E., assignor to Curtain Supply Company, Chicago, Ill. Releasing handle for vestibule curtains. No. 1,424,375; Aug. 1.
- Palya, Peter, Allentown, Pa. Spark arrester. No. 1,410,500; Mar. 21.
- Pampinella, Frank, Brooklyn, assignor to International Motor Company, New York, N. Y. Vibration recorder. No. 1,413,771; Apr. 25.
- Pancoast, William G., Wilmette, and W. J. Grotenhuis, Chicago, Ill., assignors, by mesne assignments, to Biflex Products Company. Automobile bumper-attaching hanger. No. 1,423,874; July 25.
- Pancoast, William G., Wilmette, and W. J. Grotenhuis, Chicago, Ill., assignors, by mesne assignments, to Biflex Products Company. Automobile bumper-attaching hanger. No. 1,431,838; Oct. 10.
- Pandolfo, Camelo, Montevideo, Uruguay. Electrical fly-killing device. No. 1,429,691; Sept. 19.
- Pandolfo, Samuel C., St. Cloud, Minn. Chair. No. 1,406,888; Feb. 14.
- Pandolfo, Samuel C., St. Cloud, Minn. Table. No. 1,412,314; Apr. 11.
- Pangborn Corporation. (See Liedtke, Hugo F., assignor.)
- Paniczkowski, Josef P. (See Woroniecki, Wincenty, assignor.)
- Panigot, Jules. (See Michaels, Maurice A., assignor.)
- Panik, Joseph, and S. Clebo, West Park, Ohio. Combination milk-bottle receptacle and mail box. No. 1,418,200; May 30.
- Panoff, Nicholas B., Brooklyn, N. Y. Attachment for pipes and cigar and cigarette holders. No. 1,402,536; Jan. 3.
- Pantiga, Manuel, Santa Paula, Calif. Hand rake. No. 1,435,492; Nov. 14.
- Panzerl, Caesar, Brooklyn, N. Y. Wall-paper cutting and pasting device. No. 1,426,667; Aug. 22.
- Paolucci, Henry B., San Antonio, Tex. Automatic-feeding self-adjusting pecan cracker. No. 1,424,675; Aug. 1.
- Papay, Charles T., Ambridge, Pa. Food cabinet. No. 1,432,614; Oct. 17.
- Pape, Amand, Willow Springs, Ill. Apparatus for sealing boxes. No. 1,422,300; July 11.
- Pape, Herman G., New York, N. Y. Mouthpiece. No. 1,419,513; June 13.
- Pape, Herman G., New York, N. Y. Receiver earpiece. No. 1,425,047; Aug. 8.
- Pape, Herman G., New York, N. Y., assignor, by mesne assignments, to Beaver Machine and Tool Co., Inc., Newark, N. J. Flush switch. No. 1,408,630; Mar. 7.
- Pape, Herman G., New York, N. Y., assignor, by mesne assignments, to Beaver Machine and Tool Co., Inc., Newark, N. J. Electric switch. No. 1,412,570; Apr. 11.
- Pape, Max C. A. H., Neumühlen-Dietrichsdorf, near Kiel, assignor to Firm Carbonit Aktiengesellschaft, Hamburg, Germany. Mine. No. 1,410,833; Mar. 28.
- Pape, Max C. A. H., Kiel, assignor to Carbonit Aktiengesellschaft, Hamburg, Germany. Mine-sweeping device. No. 1,410,834; Mar. 28.
- Pape, Max C. A. H., Kiel, assignor to Carbonit Akt.-Ges., Hamburg, Germany. Cutting device. No. 1,419,302; June 13.
- Papee Machine Company. (See Webb, Thomas E., assignor.)
- Paper De-Inking Co., The. (See Eyrich, H. R., and Schreiber, assignors.)
- Paper Products Machine Company. (See Coombs, George O., assignor.)
- Paper Products Machine Company. (See Howard, Charles H., assignor.)
- Papiez, Johann, Berlin, Germany. Flying machine. No. 1,407,437; Feb. 21.
- Papini, Antonio, Philadelphia, Pa. Electric heater. No. 1,440,171; Dec. 26.
- Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Electric therapeutic lamp. No. 1,402,374; Jan. 3.
- Papini, Antonio, Philadelphia, Pa., assignor to J. H. Lynch, Asbury Park, N. J. Clasp. No. 1,412,088; Apr. 11.
- Papp, Samuel, Lowellville, Ohio. Rail-joint fastener. No. 1,425,683; Aug. 15.
- Pappalardi, Alexander, Kansas City, Mo. Quick-changing mute for band instruments. No. 1,435,173; Nov. 14.
- Pappanikolaou, George, Petersburg, Va. Smoke-cleaner. No. 1,404,998; Jan. 31.
- Pappas, Denes, Cleveland, Ohio. Foot rest. No. 1,434,561; Nov. 7.
- Pappas, Peter, Kankakee, Ill. Closure. No. 1,418,201; May 30.
- Pappas, William C., Berkeley, Calif. Billiard-cue tip. No. 1,405,864; Feb. 7.
- Pappy, Robert L., assignor to East Coast Preserving Company, Daytona, Fla. Slicing machine. No. 1,403,619; Jan. 17.
- Papst, Hilmar. (See Hall, Elmon L., assignor.)
- Para, Nicholas, Detroit, Mich. Automobile radiator. No. 1,408,631; Mar. 7.
- Paradis, Joseph E., assignor of one-half to R. Chiquette, Montreal, Quebec, Canada. Lace fastener. No. 1,428,493; Sept. 5.
- Paraffine Companies, The. (See Cunha, John V., assignor.)
- Paraffine Companies, The. (See Gruenberg, Raoul J., assignor.)
- Paraffine Companies, The. (See Rosener, Leland S., assignor.)
- Paragon Can & Cap Company Inc. (See Anderson, Gustave F., assignor.)
- Paramount Cord Tire Company, The. (See Little, D. A., and Marcha, assignors.)
- Paramount Hosiery Form Drying Co. (See O'Connell, Thomas F., assignor.)
- Paramount Rubber Consolidated, Inc. (See Roberts, Fred T., assignor.)
- Paramount Rubber Consolidated, Inc. (See Stratford, Herbert R., assignor.)
- Paranteau, George R., Ventura, Calif. Fruit-transferring device. No. 1,429,092; Sept. 12.
- Paranteau, George R., Ventura, Calif. Conveyer for fruit. No. 1,429,093; Sept. 12.
- Parcher, Lucian H., Gardner, Mass. Spring shackle. No. 1,426,406; Aug. 22.
- Parco, John, Jamestown, Calif. Transmission. No. 1,425,214; Aug. 8.
- Pardee, C., Works. (See Landback, Charles A., assignor.)
- Pardee, Frank, Hazleton, Pa. Coal breaker. No. 1,412,793; Apr. 11.
- Pardee, Frank, Hazleton, Pa. Coal breaker. No. 1,419,407; June 13.
- Pardee, Frank, Hazleton, Pa. Coal breaker. No. 1,435,330; Nov. 14.
- Pardee, Frank, Jr., Hazleton, Pa., and M. R. van W. Lyon, Boston, Mass., assignors to Anthracite Separator Company. Sprag for sledding. No. 1,426,668; Aug. 22.
- Pardee, Harvey S., assignor to Miller & Pardee, Inc., Chicago, Ill. Locking cap for automobile radiators. No. 1,422,372; July 11.
- Parent, Joseph A., Montreal, Quebec, Canada. Shoe-shining machine. No. 1,415,689; May 9.
- Parent, Joseph B., assignor of one-half to W. P. Le Jeune, New Roads, La. Bridge for violins and other stringed instruments. No. 1,433,409; Oct. 24.
- Parent, Ralph K., Union City, Ohio. Truck and wagon dump. No. 1,436,051; Nov. 21.
- Parfrey, William, New York, N. Y. Shock absorber. No. 1,433,296; Oct. 24.
- Paridon, Michael, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Means for aligning and feeding box members. No. 1,430,842; Oct. 3.
- Paridon, Michael, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Box-filling machine. No. 1,433,297; Oct. 24.

Alphabetical list of patentees—Continued.

- Paridon, Michael, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Box-filling machine. No. 1,439,835; Dec. 26.
- Paris, Auguste J., Jr., Bradford, Pa. Treating crude oil and gases. No. 1,405,153; Jan. 31.
- Paris, Auguste J., Jr., Bradford, Pa. Separating hydrocarbon vapors from gases containing them. No. 1,405,154; Jan. 31.
- Paris, Auguste J., Jr., Bradford, Pa. Separating the lighter oils from crude petroleum or coal oil. No. 1,405,155; Jan. 31.
- Paris, Auguste J., Jr., Bradford, Pa. Cleaning and refining distillates of petroleum. No. 1,405,156; Jan. 31.
- Paris, Isidor, Denver, Colo. Child's racing game. No. 1,406,484; Feb. 14.
- Paris, Joseph, Nantes, France. Spacing feed mechanism for work in punching, drilling, or like machines. No. 1,435,418; Nov. 14.
- Parish, Graham C., Lake Katrine, N. Y. Retaining means for ratchet pins. No. 1,438,549; Dec. 12.
- Parish, Le Grand, Mountain View, N. J. Locomotive fire box. No. 1,403,816; Jan. 17.
- Parisi, Sebastiano, New York, N. Y. Inner sole. No. 1,402,375; Jan. 3.
- Parizek, Frank, Chicago, Ill. Cap for gasoline or similar receptacles. No. 1,426,501; Aug. 22.
- Park, Chauncey M., Flint, Mich. Carburetor. No. 1,436,602; Nov. 21.
- Park City Cornice Works, Inc. (See Pitz, A. G., and Saur, assignors.)
- Park, George, Bayonne, N. J. Machine for removing the skins from the kernels of nuts. No. 1,410,951; Mar. 28.
- Park, Nelson V., Niles, Mich. Electroplating process. No. 1,423,815; July 25.
- Park, Russell J., St. Louis, Mo. Artificial tooth. No. 1,404,316; Jan. 24.
- Park, Thomas M., Lake Bolac, Victoria, Australia. Feeding apparatus for thrashing machines. No. 1,415,046; May 9.
- Parke, Peter, assignor to The Pullman Company, Chicago, Ill. Gear for car connections. No. 1,431,750; Oct. 10.
- Parker, Albert B., Shelbyville, Tenn. Gate. No. 1,409,018; Mar. 7.
- Parker, Albert H., Otsego, Mich. Drier for drying coated paper. No. 1,426,095; Aug. 15.
- Parker, Alfred J. (See Fletcher, Henry P., assignor.) (Reissue.)
- Parker, Arthur, Haddon Heights, assignor of one-third to L. G. Buckwalter, Merchantville, and one-third to C. Redding, Clementon, N. J. Push button for automatic overload. No. 1,413,679; Apr. 25.
- Parker, Benjamin L., Moscow, Iowa. Device for operating camera shutters. No. 1,420,137; June 20.
- Parker Brothers, Inc. (See Mann, James E., assignor.)
- Parker, C. L., et al. (See Wrenn, H. A., and Phillips, assignors.)
- Parker, Calvert, Keene, N. H. Banjo structure. No. 1,422,769; July 11.
- Parker, Charles A., Haugan, assignor of one-half to A. T. Farmer, Saltese, Mont. Rail bond. No. 1,430,110; Sept. 26.
- Parker, Charles C., assignor to The Hygienic Bottle Cap Company, Baltimore, Md. Bottle cap. No. 1,414,705; May 2.
- Parker, Charles Company, The. (See Walker, Percy H. D., assignor.)
- Parker, Charles W. (See Morris, Charles E., assignor.)
- Parker, Charles W., Kansas City, Mo., assignor to R. E. Kittredge, E. M. Lyons, and M. E. Lyons, Chicago, Ill. Door check and closer. No. 1,414,996; May 2.
- Parker, Clark, deceased, Baulkham Hills, New South Wales, Australia; E. Parker, administratrix. Post for wire fencing. No. 1,422,301; July 11.
- Parker, Claude R. (See Patton, Darrell E., assignor.)
- Parker, Ernest V., Tacoma, Wash. Valve-control mechanism for internal-combustion engines. No. 1,410,263; Mar. 21.
- Parker, Ethel, administratrix. (See Parker, Clark.)
- Parker, Frederick R., Chicago, Ill. Mounting plate for electrical protective apparatus. No. 1,405,935; Feb. 7.
- Parker, Fred G., Paterson, N. J. Seating appliance. No. 1,429,249; Sept. 19.
- Parker, Frederick R., Chicago, Ill. Relay. No. 1,408,632; Mar. 7.
- Parker, Frederick R., Chicago, Ill. Relay. (Reissue.) No. 1,5374; June 6.
- Parker, George, and C. J. Daraban, Chicago, Ill. Dispenser. No. 1,421,300; June 27.
- Parker, George D. (See Twomley, Herbert E., assignor.)
- Parker, George D., Riverside, Calif. Crate-head-making machine. No. 1,407,295; Feb. 21.
- Parker, George D., Riverside, Calif. Blotter. No. 1,416,863; May 23.
- Parker, George F. (See Dennis, Thomas L., assignor.)
- Parker, George L., Minneapolis, Minn. Swimming paddle. No. 1,409,761; Mar. 14.
- Parker, George S., Salem, Mass. Game. No. 1,428,054; Sept. 5.
- Parker, Grover, Eatontown, N. J. Brake for side-car motor cycles. No. 1,431,029; Oct. 3.
- Parker, Guy E. (See Seabolt, E. W., and Parker.)
- Parker, Howard. (See Brown, O. B., Moore, Parker, and Martinson.)
- Parker, Howard, assignor to Brown Company, Berlin, N. H. Pipe wrench. No. 1,422,302; July 11.
- Parker, Howard, assignor to Brown Company, Berlin, N. H. Crane. No. 1,426,764; Aug. 22.
- Parker, J. H., & Son, Incorporated. (See Parker, William M., assignor.)
- Parker, James W., Harrow, England. Automobile producer-gas plant. No. 1,420,570; June 20.
- Parker, James W., Chicago, Ill. Gearing. No. 1,438,134; Dec. 5.
- Parker, John, and T. Wilkie, Winnipeg, Manitoba, Canada. Automobile tail light. No. 1,406,485; Feb. 14.
- Parker, John W., Detroit, Mich. Self-aligning high-speed-ball-race bearing. No. 1,430,319; Sept. 26.
- Parker, John W., Barrington, assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Clamp. No. 1,428,608; Sept. 12.
- Parker, John W., Barrington, assignor to Brown & Sharpe Mfg. Co., Providence, R. I. Direct or sight reading micrometer. No. 1,437,352; Nov. 28.
- Parker, John W., Barrington, assignor to Brown & Sharpe Mfg. Co., Providence, R. I. Revolution counter. No. 1,437,353; Nov. 28.
- Parker, Joseph N., Bedford, Va. Tractor. No. 1,430,251; Sept. 26.
- Parker, Lee H., and H. W. Day, Wollaston, assignors to Spray Engineering Company, Boston, Mass. Method of and apparatus for applying coating. No. 1,425,333; Aug. 8.
- Parker, Leslie M., Evanston, Ill. Fastener. No. 1,436,192; Nov. 21.
- Parker, Leslie O., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Spark-gap apparatus. No. 1,428,856; Sept. 12.
- Parker, Lucian E., assignor to The Ohio Match Company, Wadsworth, Ohio. Waste collector for match machines. No. 1,430,111; Sept. 26.
- Parker, Martin, assignor to J. J. Ahern, St. Paul, Minn. Wrench. No. 1,437,612; Dec. 5.
- Parker, Oliver G., Spokane, Wash. Bed. No. 1,433,741; Oct. 31.
- Parker, Orrel A., Cleveland, Ohio. Demountable wheel. No. 1,413,347; Apr. 18.
- Parker, Pearl E. (See Westenberger, G. P., and Parker.)
- Parker, Ralph D., San Francisco, Calif. Sun and rain shield. No. 1,403,620; Jan. 17.
- Parker, Riley H., Winthrop, assignor to Gillette Safety Razor Company, Boston, Mass. Gauge. No. 1,436,354; Nov. 21.
- Parker, Riley H., Winthrop, assignor to Gillette Safety Razor Company, Boston, Mass. Internal-circumference gauge. No. 1,436,355; Nov. 21.
- Parker, Sylvester W., Alameda, Calif. Grading machine. No. 1,431,030; Oct. 3.
- Parker, Susan B., Arlington, Mass. Coil safety pin. No. 1,413,423; Apr. 18.
- Parker, Thomas H., Oakland, S. G. Gassaway, Belvedere, and J. W. Whitson, San Francisco, Calif.; said Whitson assignor to said Parker and said Gassaway. Centrifugal filter. No. 1,410,264; Mar. 21.
- Parker, Thomas H., Oakland, S. G. Gassaway, Belvedere, and J. W. Whitson, San Francisco, Calif.; said Whitson assignor to said Parker and said Gassaway. Centrifugal filter. No. 1,411,582; Apr. 4.
- Parker, Will D., assignor of one-half to R. L. Sturm, Bartlesville, Okla. Airplane propeller. No. 1,404,403; Jan. 24.
- Parker, William M. (See Harris, Oran P., assignor.)
- Parker, William M., assignor to J. H. Parker & Son, Incorporated, Parkersburg, W. Va. Attaching device. No. 1,429,369; Sept. 19.
- Parker-Russell Mining & Manufacturing Company. (See Russell, Silas B., assignor.)
- Parkersburg Rig & Reel Company, The. (See Bloss, Richard R., assignor.)
- Parkersburg Rig & Reel Company. (See Leland, H. R., and Schwemlein, assignors.)
- Parkersburg Rig & Reel Company, The. (See Lockhart, Harold J., assignor.)
- Parkes, Albert W., Dundas, Ontario, Canada, assignor to Niles-Bement-Pond Company, New York, N. Y. Metal shaper. No. 1,431,180; Sept. 26.
- Parkes, Bertrand A., assignor to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Textile-drying machine. No. 1,407,081; Feb. 21.
- Parkes, Richard W., San Francisco, Calif. Coaster. No. 1,416,864; May 23.
- Parkford, Edwin A. (See Jenkins, Howard C., assignor.)
- Parkin, David O., Venice, Calif. Radiator. No. 1,421,546; July 4.
- Parkin, John, Jr., San Rafael, Calif. Rheostat. No. 1,424,515; Aug. 1.
- Parkin, John, Jr., San Rafael, Calif. Variable condenser. No. 1,433,224; Oct. 24.
- Parkinson, Harold, Wilmington, Del. String holding and cutting adjustment for rivet-setting machines. No. 1,423,250; July 18.
- Parkinson, John P., Palo Alto, Calif. Extension-top step-ladder. No. 1,425,274; Aug. 8.
- Parks, Charles S., Kent City, Mich. Fishing reel. No. 1,434,626; Nov. 7.
- Parks, Dennis. (See Mitchell, J. E., and Parks.)
- Parks, Earl R. (See Barnes, Arthur T., assignor.)

Alphabetical list of patentees—Continued.

- Parks, Frank M., North Cohocton, and F. A. Finch, assignors to H. C. Hatch, Atlanta, N. Y. Machine for preparing farm products. No. 1,415,191; May 9.
- Parks, Harry S., Philadelphia, Pa., assignor to Pneumercator Company, New York, N. Y. Distant boiler-water-level indicator. No. 1,421,711; July 4.
- Parks, Joseph W., Altoona, Pa. Automobile radiator cover. No. 1,418,393; June 6.
- Parks, Joseph W., Altoona, Pa. Tipping hand tool. No. 1,418,394; June 6.
- Parks, Raymond, Charleston, W. Va. Changeable exhibitor. No. 1,438,396; Dec. 12.
- Parks & Woolson Machine Company. (See Richardson, Charles G., assignor.)
- Parkyn, Herbert A. (See Ashenhurst, Harold S., assignor.)
- Parkyn, Herbert A., Chicago, Ill. Refrigerating apparatus. No. 1,405,319; Jan. 31.
- Parlow, Richard. (See Scholl, J., and Parlow.)
- Parmer, Robert S., Elkhart, Ind. Golf-club carrier. No. 1,418,093; May 30.
- Parmenter, Theodore A., Racine, Wis. Valve-grinding tool and the like. No. 1,425,684; Aug. 15.
- Parmer, Margaret A., Denver, Colo. Dehydrating and recovering values from slimes. No. 1,415,387; May 9.
- Parnley, Lemuel D., Waynesboro, Pa. Adjustable bearing for connecting rods. No. 1,403,346; Jan. 10.
- Parnley, Walter C., Upper Montclair, N. J. Concrete block construction. No. 1,435,174; Nov. 14.
- Parnley, Walter C., Upper Montclair, and C. Gilman, Plainfield, N. J. Expandible-joint construction. No. 1,435,175; Nov. 14.
- Parnell-Smith, Michael S., assignor to F. Smith, London, England. Electrical heating device. No. 1,409,019; Mar. 7.
- Parradee, Edward, Grand Rapids, Mich. Electric fuse. No. 1,410,835; Mar. 28.
- Parret, Milton L., Marshalltown, Iowa. Motion-transmission device. No. 1,415,690; May 9.
- Parret, Milton L., Marshalltown, Iowa. Shutter adjuster for motion-picture machines or the like. No. 1,433,841; Oct. 31.
- Parrish, Albert D., Miltonvale, Kans. Vacuum device for automobile engines. No. 1,412,957; Apr. 18.
- Parrish, George L., and C. A. Cooley, Columbus, Ohio. Adjustable plumb and level. No. 1,413,056; Apr. 18.
- Farrish, James R., Nashville, Tenn. Sound-modifying device for phonographs. No. 1,406,069; Feb. 7.
- Parrish, Louis L., Minneapolis, Minn. Manifold heater. No. 1,402,884; Jan. 10.
- Parrish, Rial T. (See Gingrich, Kent S., assignor.)
- Parrish, Rial T. (See Schlager, Alfred M., assignor.)
- Parrish, Samuel H., assignor of one-half to L. C. Orrell, Chicago, Ill. Composition for rendering paper transparent and making same. No. 1,419,750; June 18.
- Parrish, Stephen E. (See Vanderveld, Anthony, assignor.)
- Parry, Herbert L. (See Lees, E., and Parry.)
- Parry, Samuel B. (See Morse, William F., assignor.)
- Parshall, Ralph L., Fort Collins, Colo. Venturi-fume water-stage-recording instrument. No. 1,417,941; May 30.
- Parsley, George T., Ashland, Oreg. Hack saw. No. 1,413,348; Apr. 18.
- Parsley, George T., Ashland, Oreg. Combined wrench. No. 1,422,471; July 11.
- Parslow, Earl E., San Diego, Calif. Valve-stem lubricator. No. 1,421,826; July 4.
- Parsonage, Edward E. (See Stout, J. N., and Parsonage.)
- Parsons Appliance Company. (See Parsons, Jesse, assignor.)
- Parsons, Charles A., and S. S. Cook; said Cook assignor to said Parsons; Wallsend-upon-Tyne, England. Steam superheater. No. 1,421,712; July 4.
- Parsons, Charles A., Newcastle-upon-Tyne, and S. S. Cook, Wallsend-upon-Tyne, England; said Cook assignor to said Parsons. Packing ring for rotating bodies. No. 1,428,975; Sept. 12.
- Parsons, Charles A., and S. S. Cook, Newcastle-upon-Tyne, England; said Cook assignor to said Parsons. Bearing. No. 1,438,053; Dec. 5.
- Parsons, Charles A., and S. S. Cook, Newcastle-upon-Tyne, England; said Cook assignor to said Parsons. Bearing. No. 1,438,054; Dec. 5.
- Parsons, Charles A., and S. S. Cook, Wallsend-upon-Tyne, England; said Cook assignor to said Parsons. Steam superheater. No. 1,438,397; Dec. 12.
- Parsons, Charles A., S. S. Cook, and L. M. Douglas, Newcastle-upon-Tyne, England; said Cook and said Douglas assignors to said Parsons. Thrust bearing. No. 1,403,914; Jan. 17.
- Parsons, Charles A., A. Q. Carnegie, and M. Bone, Newcastle-upon-Tyne, England; said Carnegie and said Bone assignors to said Parsons. Manufacture of blading for turbines. No. 1,420,278; June 20.
- Parsons, Charles A., A. Q. Carnegie, and M. Bone, Newcastle-upon-Tyne, England; said Carnegie and said Bone assignors to said Parsons. Manufacture of blading for turbines. No. 1,420,338; June 20.
- Parsons, Charles A., A. Q. Carnegie, M. Bone, Newcastle-upon-Tyne, and Stanley S. Cook, Wallsend-upon-Tyne, England; said Carnegie, said Bone, and said Cook assignors to said Parsons. Blading for turbines. No. 1,430,398; Sept. 26.
- Parsons, Charles A., A. Q. Carnegie, M. Bone, Newcastle-upon-Tyne, and Stanley S. Cook, Wallsend-upon-Tyne, England; said Carnegie, said Bone, and said Cook assignors to said Parsons. Manufacture of articles by extrusion. No. 1,430,399; Sept. 26.
- Parsons, Charles A., A. Q. Carnegie, M. Bone, Newcastle-upon-Tyne, and S. S. Cook, Wallsend-upon-Tyne, England; said Carnegie, said Bone, and said Cook assignors to said Parsons. Manufacture of blading for turbines. No. 1,430,400; Sept. 26.
- Parsons, Clarence B., Sweet Springs, Mo. Wrench. No. 1,424,676; Aug. 1.
- Parsons Company, The. (See Stahl, Charles E., assignor.)
- Parsons Company, The. (See Vaughn, G. A., and Stahl, assignors.)
- Parsons, Earl B. (See Haines, F. H., and Parsons.)
- Parsons, Edward B., and J. W. Bullington, assignors to Oklahoma Magnetic Post Co., Oilton, Okla. Electrical connector. No. 1,439,752; Dec. 26.
- Parsons, Frank E., Dorchester, and W. M. Robinson, Weston, Mass.; said Parsons assignor to said Robinson. Wrench handle. No. 1,420,279; June 20.
- Parsons, Frederick W., Elmira, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Safety stop for power engines. No. 1,409,020; Mar. 7.
- Parsons, Frederick W., Elmira, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve-seat retainer. No. 1,414,665; May 2.
- Parsons, Frederick W., Elmira, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Portable compressor unit. No. 1,415,047; May 9.
- Parsons, Frederick W., Elmira, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Vertical compressor unit. No. 1,418,202; May 30.
- Parsons, Frederick W., Elmira, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. High-pressure compressor unit. No. 1,430,581; Oct. 3.
- Parsons, Frederick W., Elmira, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Plate valve. No. 1,433,094; Oct. 24.
- Parsons, Frederick W., Elmira, N. Y., and F. A. Jimeron, Athens, Pa., assignors to Ingersoll-Rand Company, Jersey City, N. J. Built-up crank shaft. No. 1,431,415; Oct. 10.
- Parsons, Frederick W., Elmira, N. Y., and F. A. Jimeron, Athens, Pa., assignors to Ingersoll-Rand Company, Jersey City, N. J. Built-up crank shaft. No. 1,431,416; Oct. 10.
- Parsons, Gam A. (See Hindman, H. A., and Parsons.)
- Parsons, George C., Berwyn, Ill. Index. No. 1,404,541; Jan. 24.
- Parsons, Harold K., Southbridge, Mass. Ophthalmic mounting. No. 1,428,393; Sept. 5.
- Parsons, Harry N., assignor to U. S. Ball Bearing Manufacturing Company, Chicago, Ill. Antifriction bearing. No. 1,411,806; Apr. 4.
- Parsons, Harry N., assignor to U. S. Ball Bearing Manufacturing Company, Chicago, Ill. Antifriction bearing. No. 1,420,339; June 20.
- Parsons, Jesse, assignor to Parsons Appliance Company, Seattle, Wash. Window-operating means. No. 1,421,547; July 4.
- Parsons, John H., assignor of one-fourth to A. C. Bunnell, Ridley Park, and one-fourth to D. J. Normoyle, Philadelphia, Pa. Centrifugal gun. No. 1,408,137; Feb. 28.
- Parsons, Lester W., C. W. Morgan, Cristobal, Canal Zone, and A. R. Hussey, Boston, Mass. Coal-loading device. No. 1,435,730; Nov. 14.
- Parsons, Osborne H., Halifax, Nova Scotia, Canada. Power generator. No. 1,403,912; Jan. 17.
- Parsons, Peter L., Cristobal, Panama, Canal Zone. Aeroplane radiator. No. 1,440,315; Dec. 26.
- Parsons, Philip D., Philadelphia, Pa., assignor to Scott Paper Company. Watermarking embossing machine. No. 1,408,633; Mar. 7.
- Parsons, Philip D., Philadelphia, Pa., assignor to Scott Paper Company. Dispensing machine. No. 1,424,772; Aug. 8.
- Parsons, Philip D., Philadelphia, Pa., assignor to Scott Paper Company. Machine for folding and severing paper. No. 1,433,148; Oct. 24.
- Parsons, Raymond H., assignor to National Pneumatic Company, New York, N. Y. Electrically-controlled door lock for cars. No. 1,405,623; Feb. 7.
- Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Handle. No. 1,407,167; Feb. 21.
- Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Manufacture of swivel members. No. 1,424,029; July 25.
- Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Track for sliding doors. No. 1,429,620; Sept. 19.
- Parsons, William H., Cristobal, Canal Zone. Bottle. No. 1,438,851; Dec. 12.
- Parsons, William H., Cristobal, Canal Zone. Bottle. No. 1,438,852; Dec. 12.
- Parsons, William J., London, England. Appliance for playing race games. No. 1,414,788; May 2.
- Parsons, William J., Montague, assignor to Millers Falls Company, Millers Falls, Mass. Telescopic wrench. No. 1,417,683; May 30.
- Partee, James, Santa Cruz, Calif. Concrete building structure. No. 1,423,779; July 25.

Alphabetical list of patentees—Continued.

- Partin, Albert, Talkeetna, Alaska. Wrench. No. 1,425,415; Aug. 8.
- Partin, Albert, and M. L. Stevenson, Anchorage, Alaska. Self-cleaning comb. No. 1,440,236; Dec. 26.
- Partington, Edward, Glossop, England. Apparatus for reclaiming paper pulp and the like from the waste waters in paper-making machines. No. 1,409,885; Mar. 14.
- Partlow, Howard W., Utica, N. Y. Slug guide. No. 1,411,457; Apr. 4.
- Parton, William H., assignor of one-half to Wear-Ever Tank & Paint Co., Huron, S. Dak. Tank or storage receptacle. No. 1,427,166; Aug. 29.
- Partridge, Hugh, assignor to Partridge Tractor Company, Inc., Jacksonville, Fla. Traction wheel. No. 1,427,167; Aug. 29.
- Partridge, Ralph B., assignor to Southall & Smith Limited, Birmingham, England. Filling device. No. 1,427,013; Aug. 22.
- Partridge Tractor Company. (See Partridge, Hugh, assignor.)
- Partridge, John C., Oklahoma, Okla. Door frame and hinge. No. 1,438,781; Dec. 12.
- Parviainen, Andrew, Cromwell, Minn. Hot-air furnace. No. 1,436,900; Nov. 23.
- Pasch, Charles H., St. Louis, Mo. Welding torch. No. 1,430,026; Sept. 26.
- Paschke, Otto H., assignor to Automatic Truck Brake Company, Yakima, Wash. Automatic safety lock device. No. 1,419,469; June 13.
- Pasco, Arthur J., Oklahoma, Okla. Vent for automobile radiators. No. 1,435,331; Nov. 14.
- Pascoe, Wilbur, Detroit, Mich., assignor to Westinghouse Electric & Manufacturing Company. Inclosed toaster. No. 1,425,685; Aug. 15.
- Pasnik, Alexander M., Norwich, Conn. Valved bottom-dispensing salt shaker. No. 1,439,259; Dec. 19.
- Pass, Arthur, Fleet, England. Combination lock. No. 1,410,033; Mar. 21.
- Pass & Seymour Inc. (See Thompson, Don N., assignor.)
- Passaic Metal Ware Co. (See Prince, Frank N., assignor.)
- Passalacqua, Augusto, Paris, France. Soldering of aluminum. No. 1,402,644; Jan. 3.
- Passauer, Robert L., Marble, Pa. Lock nut. No. 1,433,410; Oct. 24.
- Passavanti, Gerardo, New York, N. Y. Film reel. No. 1,408,425; Feb. 28.
- Passavanti, Gerardo, New York, N. Y. Film reel. No. 1,429,692; Sept. 19.
- Passmore, Alphonso F., and E. B. Fletcher, Toronto, Ontario, Canada. Water heater. No. 1,408,634; Mar. 7.
- Pasturczak, Walter, assignor of one-half to F. Szulc, Fairmont, W. Va. Roundabout. No. 1,426,314; Aug. 15.
- Pataky, Anton, Conneaut, Ohio. Washboard holder. No. 1,409,233; Mar. 14.
- Patch, Ernest A., Prattsburg, N. Y. Tractor. No. 1,428,394; Sept. 5.
- Patch, James W., Fort Wayne, Ind., assignor to General Electric Company. Electrical apparatus. No. 1,436,901; Nov. 28.
- Patch, William E., St. Louis, Mo. Removing enamel from enameled metal articles. No. 1,416,865; May 23.
- Patchel, Robert E., Philadelphia, Pa. Blowtorch. No. 1,431,031; Oct. 3.
- Patchin, Doyle and G., Shawnee, Okla. Pneumatic punctureproof single-tube tire. No. 1,409,762; Mar. 14.
- Patchin, George. (See Patchin, Doyle and G.)
- Patee, Fred, Casper, Wyo. Building block. No. 1,418,160; May 30.
- Patent Button Company, The. (See Hubbell, Benjamin F., assignor.)
- Patent Button Company, The. (See White, Franklin R., assignor.)
- Patent Products Company. (See Schwimmer, Oscar, assignor.)
- Patent-Treuhand-Gesellschaft für Elektrische Glühlampen, m. b. H. (See Flückh, Karl, assignor.)
- Patent-Treuhand-Gesellschaft für Elektrische Glühlampen, m. b. H. (See Frank, Ernst, assignor.)
- Patent-Treuhand-Gesellschaft für Elektrische Glühlampen mit beschränkter Haftung. (See Le Rossignol, Robert, assignor.)
- Patents Holding Corporation. (See Prouty, Theodore C., assignor.)
- Paterson, George. (See Armstrong, R. B., and Paterson.)
- Paterson, George F., Willamina, Oreg. Valve-spring compressor. No. 1,438,782; Dec. 12.
- Paterson, Horatio M., London, England. Closure fastener. No. 1,404,476; Jan. 24.
- Paterson, John C. (See Clayden, F., and de Frece, assignors.)
- Paterson, May H. (See Paterson, William and M. H.)
- Paterson, William and M. H., Oakland, Calif. Sidehill orchard ladder. No. 1,424,934; Aug. 8.
- Paterson, William, and G. A. Rannie, Glasgow, Scotland. Aim-indicating apparatus for firearms. No. 1,432,254; Oct. 17.
- Pathe Exchange Inc. (See Chanier, Gaston L., assignor.)
- Pathe Exchange, Inc. (See Miller, A. W., and Conklin, assignors.)
- Pathe Freres Phonograph Company. (See Burckard, Albert, assignor.)
- Pathe Freres Phonograph Company. (See Widmann, Eugene A., assignor.)
- Patigian, Arthur, Modesto, Calif. Bearing scraper. No. 1,415,048; May 9.
- Patitz, Johann F. M., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Tractor. No. 1,419,113; June 6.
- Patrick, F. A., & Company. (See Witherell, Earl M., assignor.)
- Patrick, James C. (See Davison, Harry W., assignor.)
- Patrick, Theodore L., Paw Paw, Ill. Window-sash balance. No. 1,420,280; June 20.
- Patrick, Van G. (See Montague, J. W., and Patrick.)
- Patt, Sylvester, Willoughby, Ohio. Washing machine. No. 1,415,691; May 9.
- Pattberg, George A., San Leandro, Calif. Can opener. No. 1,420,666; June 27.
- Pattberg, George A., and J. E. Faustina, San Leandro, Calif.; said Faustina assignor to said Pattberg. Rack. No. 1,404,477; Jan. 24.
- Pattberg, George A., assignor of twenty-five per cent to J. A. Avellar, San Leandro, Calif. Rodent trap. No. 1,432,356; Oct. 17.
- Patten, Ernest L., Malden, Mass., assignor to Wellman Company. Machine for cutting soles. No. 1,418,604; June 6.
- Patten, Francis H., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automobile lighting system. No. 1,404,890; Jan. 31.
- Patten, Francis H., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Voltage-regulator mechanism. No. 1,435,254; Nov. 14.
- Patten, Harry, Chorlton-cum-Hardy, England. Foot support. No. 1,408,712; Mar. 7.
- Patten, Harry B., Westfield, Ind. Means for locking demountable rims to wheels. No. 1,418,458; June 6.
- Patten Manufacturing Company. (See Upton, F. B., and Kirk, assignors.)
- Patterson, Benjamin G., Oklahoma, Okla. Wrench. No. 1,402,249; Jan. 3.
- Patterson, Benjamin G., Oklahoma, Okla. Wrench. No. 1,405,716; Feb. 7.
- Patterson, Charles E., San Francisco, Calif. Electrically-controlled heater. No. 1,418,671; June 6.
- Patterson, Charlotte W., New York, N. Y. Household cleaning basket. No. 1,431,839; Oct. 10.
- Patterson, Curtis J., Kansas City, Mo., assignor to The Campbell Baking Company, Wilmington, Del. Determining condition of dough for bakery products during fermentation process. No. 1,429,526; Sept. 19.
- Patterson, Curtis J., assignor to The Campbell Baking Company, Kansas City, Mo. Apparatus for disinfecting bakery products. No. 1,437,907; Dec. 5.
- Patterson, Duncan W., assignor, by mesne assignments, to Foamite Firefoam Company, New York, N. Y. Fire-extinguishing system. No. 1,403,621; Jan. 17.
- Patterson, Duncan W., Douglaston, N. Y., and H. L. Woolfenden, Denver, Colo. Flotation of minerals. No. 1,412,215; Apr. 11.
- Patterson, Earl L., Coalinga, Calif. Combined slideable gauge and aligning device. No. 1,407,803; Feb. 28.
- Patterson, James C. (See Laurent, L. E., and Patterson.)
- Patterson, John, Jr., Aldershot, England. Hose supporter. No. 1,416,866; May 23.
- Patterson, John E., Chicago, Ill. False bottom for cooking utensils. No. 1,434,262; Oct. 31.
- Patterson, John W. (See Sides, Wilson W., assignor.)
- Patterson, John W., assignor to The Seamless Rubber Company, Inc., New Haven, Conn. Hose connection. No. 1,429,766; Sept. 19.
- Patterson, Joseph A., and E. J. Miller, Waynesburg, Pa. Connecting rod. No. 1,434,143; Oct. 31.
- Patterson, M. F., Dental Supply Company. (See Rogers, Clarence B., assignor.)
- Patterson, Marcus, Brooklyn, N. Y. Strip for floor coverings and the like. No. 1,423,143; July 18.
- Patterson, Martin L., Bogota, N. J., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Search-light-positioning means. No. 1,418,325; June 6.
- Patterson, Ralph J., Boston, Mass. Electrically-heated fireless cooker. No. 1,405,624; Feb. 7.
- Patterson, Ralph J., Boston, Mass. Electric heater. No. 1,433,472; Oct. 24.
- Patterson, William F., Philadelphia, Pa. Traction device for extracting stalled vehicles. No. 1,403,190; Jan. 10.
- Patterson, William M., Greenville, S. C. Picker-stick check. No. 1,417,557; May 30.
- Patterson-Williams Mfg. Co. (See Williams, Winfield, assignor.)
- Pattimore, Augustus T., Sacramento, Calif. Paper feed for headrests. No. 1,426,837; Aug. 22.
- Pattison, Warren E. (See MacDowell, C. H., Meyers, and Pattison.)
- Pattison, William L., Rosedale, Kans. Floor grating. No. 1,421,827; July 4.
- Patton, A. G. (See McLaughlin, Robert, assignor.)
- Patton, Darrell E., Fort Worth, Tex., assignor to C. R. Parker, North Little Rock, Ark. Puncture-proof tire. No. 1,409,021; Mar. 7.
- Patton, Hal T. (See Weatherhead, E. H., and Patton.)
- Patton, Louis R., Chicago, Ill. Shower attachment for bathtubs. No. 1,406,070; Feb. 7.
- Patureau, Arthur M., Beaumont, Tex. Shutter for motion-picture machines. No. 1,426,595; Aug. 22.

- Patzkowski, Mary L., Homestead, Okla. Letter-carrier's folding mail receptacle. No. 1,431,032; Oct. 3.
- Paul, Abram F., assignor to National Pneumatic Company, New York, N. Y. Door-operating mechanism. No. 1,412,369; Apr. 11.
- Paul, Christian F., Jr., assignor to E. Nalle, W. P. Allen, and E. Rosengren, trustees, Austin, Tex. Combined thrust bearing and driving mechanism. No. 1,407,296; Feb. 21.
- Paul, Christian F., Jr., assignor to E. Nalle, W. P. Allen, and E. Rosengren, trustees, Austin, Tex. Centrifugal separator. No. 1,409,763; Mar. 14.
- Paul, Henry A., Muskogee, Okla. Hinge. No. 1,429,527; Sept. 19.
- Paul, Ira, Brooklyn, N. Y., assignor to Metal & Thermit Corporation, Chrome, N. J. Process for eliminating phosphorus from metallic solutions. No. 1,437,191; Nov. 28.
- Paul, John L., Auvergne, Ark. Accelerator safety pedal control. No. 1,403,443; Jan. 10.
- Paul, John S., York Beach, Me. Metallic vehicle tire. No. 1,435,871; Nov. 14.
- Paul, Max, Stockton, Calif. Ditching machine. No. 1,428,055; Sept. 5.
- Paul, Raymond W., Pike Road, N. C. Back band. No. 1,423,144; July 18.
- Paul, Stephen, Lansing, Mich. Adjustable guide for hammers. No. 1,405,799; Feb. 7.
- Paul, William B. (See Bumbaugh, George L., assignor.)
- Paul, William L., Beaufort, N. C. Coin sorter. No. 1,416,120; May 16.
- Paul, William P. (See Cockcroft, Walter, assignor.)
- Paulero, Louis, assignor to American Electric Tool Company, Incorporated, Petersburg, Va. Electric hammer. No. 1,429,094; Sept. 12.
- Pauley, Max W., Rogers, Mich. Automatic stop for moving-picture machines. No. 1,406,889; Feb. 14.
- Pauling, Curt. (See Kulas, K., and Pauling.)
- Paull, Archibald W., and J. A. McGinnis, assignors to Wheeling Stamping Company, Wheeling, W. Va. Cap retainer. No. 1,430,843; Oct. 3.
- Paull, Wallace H., Birmingham, assignor to The Dunlop Rubber Company, Limited, Regent's Park, London, England. Detachable wire-spoked wheel. No. 1,410,501; Mar. 21.
- Paulsen, Christian P., Seattle, Wash. Three-in-one clamp and vise combined. No. 1,425,275; Aug. 8.
- Paulsen, Henry J., Los Angeles, Calif. Bottle-filling apparatus. No. 1,413,772; Apr. 25.
- Paulsen, Jakob A., Jersey City, N. J. Headed stopper. No. 1,425,539; Aug. 15.
- Paulson, Arthur, et al. (See Bolenbaugh, Burton R., C., and K. S., and Long, assignors.)
- Paulson, Arthur, New York, N. Y. Filing device. No. 1,402,439; Jan. 3.
- Paulson, George I. (See Brown, A. J., and Paulson.)
- Paulson, Henry, Chicago, Ill. Cross-reference catalogue index. No. 1,403,622; Jan. 17.
- Paulson, John E., Minneapolis, Minn. Potato cutter and planter. No. 1,406,679; Feb. 14.
- Paulson, Walter H., assignor to H. D. Lathrop, Chicago, Ill. Can-washing machine. No. 1,423,816; July 25.
- Paulter, Victor G., Fort Gage, Ill. Automobile radiator shield. No. 1,431,483; Oct. 10.
- Paulus, Charles L. (See Russell, H. O., and Paulus.)
- Paulus, Herman W., Richmond Hill, N. Y., assignor to Royal Baking Powder Company. Apparatus for effecting chemical reaction by means of amalgams. No. 1,411,507; Apr. 4.
- Paulus, Herman W., Richmond Hill, N. Y., assignor to Royal Baking Powder Company. Evaporator. No. 1,418,878; June 6.
- Paulus, Herman W., Richmond Hill, N. Y., assignor to Royal Baking Powder Company. Manufacturing hydrochloric acid and carbon monoxide. No. 1,420,209; June 20.
- Paulus, Herman W., Richmond Hill, N. Y., assignor to Royal Baking Powder Company. Apparatus for use in effecting chemical reactions. No. 1,420,210; June 20.
- Paulus, Herman W., Richmond Hill, N. Y., assignor to Royal Baking Powder Company. Apparatus for effecting chemical reactions. No. 1,420,211; June 20.
- Paulus, Herman W., Richmond Hill, N. Y., assignor to Royal Baking Powder Company. Method of and apparatus for electrolytic reduction and oxidation. No. 1,420,212; June 20.
- Paulus, Herman W., Richmond Hill, N. Y., assignor to Royal Baking Powder Company. Manufacture of oxalate. No. 1,420,213; June 20.
- Pauly, Carl P., Sauk Center, Minn. Automatic stock-feeding apparatus. No. 1,405,431; Feb. 7.
- Pauly, Howard C., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephonic apparatus. No. 1,403,811; Jan. 17.
- Paumier, Emile L. A., Paris, France. Photographic apparatus. No. 1,413,187; Apr. 18.
- Paupa, Joseph, Chicago, Ill. Tree protector. No. 1,420,738; June 27.
- Pausin, Hugo R., Allendale, N. J. Closure. No. 1,426,211; Aug. 15.
- Pautler, Victor G., Fort Gage, Ill. Camera. No. 1,428,395; Sept. 5.
- Pavelka, Joseph, St. Louis, Mo. Appliance for tools. No. 1,406,071; Feb. 7.
- Pavey, William B. (See French, G. M., and Pavey.)
- Pavia, Luigi, Allentown, Pa. Shuttle. No. 1,439,322; Dec. 19.
- Pavitchich, Steve, Woodriver, Ill. Drain valve. No. 1,423,679; July 25.
- Pavitt, William H., Jr., Brooklyn, N. Y., assignor of one-third to L. Wilputte and two-thirds to A. A. Wilputte, New Rochelle, N. Y. Collecting main for by-product coke ovens. No. 1,414,524; May 2.
- Pavitt, William H., Jr., Brooklyn, assignor of one-third to L. Wilputte and two-thirds to A. A. Wilputte, New Rochelle, N. Y. Settling tank. No. 1,430,181; Sept. 26.
- Pavlica, Mike, Shingleton, Mich. Nonrefillable bottle. No. 1,411,179; Mar. 28.
- Pavoni, Joseph, Sioux City, Iowa. Detachable link. No. 1,415,692; May 9.
- Pawson, Gilbert, London, England. Tapping attachment for drill presses and other machines. No. 1,433,842; Oct. 31.
- Paxflat Barrel & Crate Corporation. (See Le Fevre, G. A., and Hutchinson, assignors.)
- Paxton, Benjamin F., Valentine, Nebr. Swivel for pipes. No. 1,409,022; Mar. 7.
- Paxton, John, Cincinnati, Ohio. Shovel sifter. No. 1,432,119; Oct. 17.
- Paxton, Roy A. (See Miller, T. B., and Paxton.)
- Paxton, William M., Florence, Ala. Bridge-scoring device. No. 1,435,620; Nov. 14.
- Paye & Baker Manufacturing Company. (See Doland, Harry, assignor.)
- Paylor, Lonnie J., Danville, Va. Tobacco-hanging machine. No. 1,429,250; Sept. 19.
- Payn, Frank M. (See Rook, H. N., and Payn.)
- Payne, Arlie, Paragould, Ark. Multiple-exposure attachment for cameras. No. 1,416,502; May 16.
- Payne, Arthur R., Clarksburg, W. Va. Cleansing molds. No. 1,430,844; Oct. 3.
- Payne, Charles, et al. (See Fields, William E., assignor.)
- Payne, Charles H., Cincinnati, Ohio. Collapsible tube. No. 1,427,411; Aug. 29.
- Payne, Ernest, Binghamton, N. Y. Pivoted headlight for locomotives. No. 1,407,766; Feb. 28.
- Payne, Frank E., Chicago, Ill. Condenser. No. 1,427,318; Aug. 29.
- Payne, Frank E., Glencoe, Ill. Metallic packing. No. 1,428,976; Sept. 12.
- Payne, George A., Connellsville, Pa. Antiskid device. No. 1,431,484; Oct. 10.
- Payne, Jacob, Beatrice, Nebr. Reinforced-concrete pole. No. 1,420,571; June 20.
- Payne, John H., Jr., Schenectady, N. Y., assignor to General Electric Company. Electrode. No. 1,432,411; Oct. 17.
- Payne, Lee H., Chicago, Ill. Bottle crate. No. 1,420,444; June 20.
- Payne, Lee H., Milwaukee, Wis. Tub bottom. No. 1,427,907; Sept. 5.
- Payne, Marshall J., assignor to The Payne Valve Corporation, Staunton, Va. Tire valve. No. 1,429,047; Sept. 12.
- Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordinance Corporation, New York, N. Y. Gun. No. 1,403,623; Jan. 17.
- Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordinance Corporation, New York, N. Y. Firearm. No. 1,424,773; Aug. 8.
- Payne, Pearson M., Pittsburgh, Pa. Throttle-control mechanism. No. 1,429,528; Sept. 19.
- Payne, Raymond P. (See Evans, A. B., and Payne.)
- Payne, Samuel R., assignor to U. S. Safety First Gate Corporation, Quincy, Ill. Gate and gate-operating mechanism for railway crossings. No. 1,437,071; Nov. 28.
- Payne, Thomas F., Pittsburgh, Pa. Automobile radiator. No. 1,428,901; Sept. 12.
- Payne Valve Corporation, The. (See Payne, Marshall J., assignor.)
- Payne, William F., Stratford, Ontario, Canada. Furnace. No. 1,423,145; July 18.
- Payson, Arthur C., Milan, Ill. Valve-surfacing device. No. 1,409,764; Mar. 14.
- Payson, Arthur C., Milan, Ill. Valve-seat-surfacing device. No. 1,409,765; Mar. 14.
- Payton & Kelly Co. (See Eddy, Albert H., assignor.)
- Pazant, Octave S. (See Ruscher, H., and Pazant.)
- Pazos y Sacio, V., Newark, N. J. Method of and apparatus for smelting ores. No. 1,419,764; June 13.
- Peabody, James C., Boston, Mass. Fiber board. No. 1,406,410; Feb. 14.
- Peabody, William L., assignor of one-half to C. J. Leonard, Decatur, Ill. Headlight. No. 1,434,253; Oct. 31.
- Peach, Andy, near Danville, Ky. Tobacco finisher or ripener. No. 1,440,237; Dec. 26.
- Peacock, Arthur M., Wigan, England. Vanity case or powder box. No. 1,416,503; May 16.
- Peacock, Arthur M., Wigan, England. Box or container. No. 1,436,052; Nov. 21.
- Peacock, John W., Chatham, England. Automatic locking device for motor and other vehicles. No. 1,431,417; Oct. 10.
- Peacock, Marshall H., assignor to Peacock Radiator Guard Company, Inc., Detroit, Mich. Radiator guard. No. 1,431,595; Oct. 10.

Alphabetical list of patentees—Continued.

- Peacock Radiator Guard Company. (See Peacock, Marshall H., assignor.)
- Peacock, Samuel, Wheeling, assignor of sixty per cent to C. W. Waggoner, Morgantown, W. Va. Producing alkali-metal silicates in blast furnaces. No. 1,425,048; Aug. 8.
- Peacock, Samuel, assignor, by mesne assignments, to Wheeling Steel & Iron Company, Wheeling, W. Va. Apparatus for annealing thin steel sheets. No. 1,427,319; Aug. 29.
- Peaden, William H., Dallas, Tex. Counterbalancing and adjustable sash for windows. No. 1,405,557; Feb. 7.
- Peak, Clyde I., Barada, Nebr. Nonskid chain. No. 1,419,751; June 13.
- Penke, Edward E., Texarkana, Tex. Belt buckle. No. 1,408,028; Feb. 28.
- Peale, Richard, St. Benedict, Pa. Conveyer. No. 1,433,906; Oct. 31.
- Pearce, Henry A., Trail, British Columbia, Canada. Gear. No. 1,412,706; Apr. 11.
- Pearce, Peter D., Grand Rapids, and S. Vanden Hoek, Wyoming Township, Kent County, Mich. Ice-cream-carton filler. No. 1,434,500; Nov. 7.
- Pearce, Russell, McCartney, Pa. Carbide-lamp cleaner. No. 1,432,255; Oct. 17.
- Pearcy, Walter T., New Albany, Ind. Silencer. No. 1,422,373; July 11.
- Pearl, Eugene, New York, N. Y. File rack. No. 1,415,110; May 9.
- Pearl, Herman, Elmira, N. Y. Adjustable container for teapots. No. 1,424,774; Aug. 8.
- Pearl Victoria (Foreign & Colonial) Limited. (See Leachman, Edward C., assignor.)
- Pearlmutter, Samuel B., Revere, Mass. Fountain shaving brush. No. 1,412,958; Apr. 18.
- Pearsall, Benjamin F., Jr., Wallace, N. C. Explosive engine. No. 1,406,072; Feb. 7.
- Pearson, August E., Toronto, Ontario, Canada. Babbitting machine. No. 1,429,767; Sept. 19.
- Pearson, Carl E., Lansing, Mich. Igniting apparatus. No. 1,420,340; June 20.
- Pearson, Carl J. and L. M., Chicago, Ill. Phonograph. No. 1,419,514; June 13.
- Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Tongue support. No. 1,419,303; June 13.
- Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Automatic mower pitman. No. 1,423,013; July 18.
- Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Pitman connection. No. 1,424,935; Aug. 8.
- Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Latching mechanism. No. 1,424,936; Aug. 8.
- Pearson, Edward I., Toledo, Ohio. Specific-gravity control for electric circuits. No. 1,412,959; Apr. 18.
- Pearson, Eric G., Elizabeth, N. J. Centrifugal separator. No. 1,417,558; May 30.
- Pearson, John H., et al. (See Carmichael, Andrew R., assignor.)
- Pearson, John P. (See Nyman, J. O., and Pearson.)
- Pearson, John W. (See Power, J. S., and Pearson.)
- Pearson, John W., assignor to The Davis Sewing Machine Company, Dayton, Ohio. Gearing. No. 1,439,636; Dec. 19.
- Pearson, Lawrence J. (See Skinner, J. M., Mortimer, and Pearson.)
- Pearson, Lorain A., West Milton, Ohio. Windmill. No. 1,408,905; Mar. 7.
- Pearson, Sigrid L. M. (See Pearson, Carl J. and S. L. M.)
- Pearson, Susan C., New York, N. Y. Bath brush. No. 1,418,019; May 30.
- Pearsons, George T., New York, N. Y. Fire extinguisher. No. 1,403,191; Jan. 10.
- Pearsons, George T., New York, N. Y. Fire extinguisher. No. 1,417,559; May 30.
- Pearsons, George T., New York, N. Y. Fire-extinguishing apparatus. No. 1,431,178; Oct. 10.
- Pearsons, George T., New York, N. Y. Fire extinguisher. No. 1,431,179; Oct. 10.
- Pearsons, George T., New York, N. Y. Fire extinguisher. No. 1,431,180; Oct. 10.
- Pearsons, George T., New York, N. Y. Fire extinguisher. No. 1,439,709; Dec. 26.
- Peary, Robert E., Washington, D. C. Self-oiling hinge pin. No. 1,433,095; Oct. 24.
- Pease, C. F. Company, The. (See Green, C. A., and Schub, assignors.)
- Pease, Charles F., assignor to The C. F. Pease Company, Chicago, Ill. Tensioning device. No. 1,414,579; May 2.
- Pease Company, C. F., The. (See Pease, Charles F., assignor.)
- Pease, Edward S., and F. Reynolds, Redwood Falls, Minn. Illuminated license tag. No. 1,430,845; Oct. 3.
- Pease, Emma C., Nantucket, Mass. Hand mirror. No. 1,439,836; Dec. 26.
- Pease, Fred F., East Braintree, Mass. Wrench. No. 1,418,161; May 30.
- Pease, George S., West Carrollton, assignor to John W. Latimer, Lakewood, Ohio. Fire-resistant composition. No. 1,429,451; Sept. 19.
- Pease, Walter M., assignor of one-half W. A. Contant, Brighton, N. Y. Receptacle. No. 1,419,304; June 13.
- Peat, Richard T., Kansas City, Kans. Portable and adjustable lamp holder. No. 1,403,863; Jan. 17.
- Pechkranz, Rodolphe, Carouge-Geneva, Switzerland. Electrolyzer. No. 1,415,466; May 9.
- Peck, Calvin, Bloomfield, assignor of one-half to M. F. Grymes, Orange, N. J. Freight-car construction. No. 1,428,448; Sept. 5.
- Peck, Charles C. (See Adams, L. E., and Peck.)
- Peck, Charles H. (See Deibert, Charles J., assignor.)
- Peck, Charles L., New York, N. Y., assignor to The Dow Company. Selective removal of organic material from liquors. No. 1,426,596; Aug. 22.
- Peck, Charles L., New York, N. Y., assignor to The Dorr Company. Dehydrating activated sludge. No. 1,430,182; Sept. 26.
- Peck, Duncan W., Syracuse, N. Y. Means for cleaning third-rail tunnels of railways. No. 1,410,219; Mar. 21.
- Peck, Edward E., Los Angeles, Calif. Automobile headlight. No. 1,410,077; Mar. 21.
- Peck, Edward L. (See McDonell, G. B., and Peck.)
- Peck, Harley T., Lebanon, Ohio, assignor to The Peters Cartridge Company, Cincinnati, Ohio. Primer for small-arms ammunition. No. 1,407,767; Feb. 28.
- Peck, Harley T., Lebanon, assignor to The Peters Cartridge Company, Cincinnati, Ohio. Primer for small-arms ammunition. No. 1,416,121; May 16.
- Peck, Harley T., Lebanon, assignor to The Peters Cartridge Company, Cincinnati, Ohio. Primer for small-arms ammunition. No. 1,416,122; May 16.
- Peck, Harley T., Lebanon, assignor to The Peters Cartridge Company, Cincinnati, Ohio. Primer for small-arms ammunition. No. 1,416,123; May 16.
- Peck, Harry E., Waverly, N. Y. Shoehorn. No. 1,424,030; July 25.
- Peck, Harry E., Waverly, N. Y. Portable light support and clamp. No. 1,431,485; Oct. 10.
- Peck, Harry E., Waverly, N. Y. Blotter top. No. 1,437,908; Dec. 5.
- Peck, Harry E., Waverly, N. Y. Rocking blotter. No. 1,437,909; Dec. 5.
- Peck, Jacob G., Portland, Ore. Freezing ice cream. No. 1,408,774; Mar. 7.
- Peck, John H., Miami, Okla. Pump-rod counterbalance. No. 1,430,467; Sept. 26.
- Peck, Marion T. (See Anderson, P. A., and Peck.)
- Peck, Myles W., London, England. Spring wheel. No. 1,410,952; Mar. 28.
- Peck, Waldemar C., Naugatuck, Conn. Vehicle tire. No. 1,416,303; May 16.
- Peck, Wilbur H., Los Angeles, Calif. Separating mixed mineral particles of different degrees of specific gravity. No. 1,420,138; June 20.
- Peck, Wilbur H., Los Angeles, Calif. Differential flotation separator. No. 1,420,139; June 20.
- Peck, William A. (See Moran, F. J., and Peck.)
- Peck, Stow & Wilcox Company, The. (See Bullard, Edwin W., assignor.)
- Peck, Stow & Wilcox Company, The. (See Hahnemann, Paul R., assignor.)
- Peck, Stow & Wilcox Company, The. (See Prentice, Thomas, assignor.)
- Pecker, Joseph S., Philadelphia, Pa. Knitting machine. No. 1,435,176; Nov. 14.
- Pecker, Joseph S., Philadelphia, Pa. Warp-knitting machine. No. 1,440,238; Dec. 26.
- Peckham, Charles F., Providence, R. I. Valve. No. 1,435,549; Nov. 14.
- Peckham, Charles F., Providence, R. I. Valve. No. 1,435,550; Nov. 14.
- Peckham, Harold C. (See Jaques, Fernando O., Jr., assignor.)
- Peckham, John W., Parkston, S. Dak. Stereotype-casting frame. No. 1,423,146; July 18.
- Peckinpaugh, Ernest H., Chattanooga, Tenn. Artificial fishing bait. No. 1,435,177; Nov. 14.
- Peczenik, Charles E., London, England. Vehicle body and roof. No. 1,413,424; Apr. 18.
- Peden, Oreal D., Roscoe, Tex. Stalk cutter. No. 1,429,163; Sept. 12.
- Pedersen, Anton, Oakland, Calif. Billiard table. No. 1,439,837; Dec. 26.
- Pedersen, Arthur Z., West Orange, N. J. Noncorroding antifreeze mixture. No. 1,405,320; Jan. 31.
- Pedersen, Hans A. M., Kaldnaes, near Tönsberg, Norway. Apparatus for heating air. No. 1,404,638; Jan. 28.
- Pedersen, Harald, Trondhjem, Norway, assignor to A/S Høyangtaldene Norsk Aluminium Co., Christiania, Norway. Enabling alumina to be obtained from clay and other impure aluminous materials. No. 1,406,890; Feb. 14.
- Pedersen, Johannes T., Flushing, N. Y., assignor, by mesne assignments, to The Measuregraph Company. Fabric-measuring chart and roller therefor. No. 1,418,162; May 30.
- Pedersen, John D., Jackson, Wyo. Firearm. No. 1,410,265; Mar. 21.
- Pedersen, John D., Jackson, Wyo. Firearm. No. 1,410,266; Mar. 21.
- Pedersen, John D., Jackson, Wyo. Firearm. No. 1,410,267; Mar. 21.
- Pedersen, John D., Jackson, Wyo. Firearm. No. 1,410,268; Mar. 21.
- Pedersen, John D., Jackson, Wyo. Firearm. No. 1,410,269; Mar. 21.

- Pedersen, John D., Jackson, Wyo. Firearm. No. 1,410,270; Mar. 21.
- Pedersen, John D., Jackson, Wyo. Firearm. No. 1,423,358; July 18.
- Pedersen, John D., Jackson, Wyo. Firearm. No. 1,429,621; Sept. 19.
- Pedersen, John F., assignor of one-half to A. Astrup, Racine, Wis. Electric fixture. No. 1,431,325; Oct. 10.
- Pedersen, Olaf N., New Orleans, La. Scaling device. No. 1,431,840; Oct. 10.
- Pedersen, Oscar A., New York, N. Y. Roofing tile. No. 1,427,968; Sept. 5.
- Pedersen, Soren C., and A. J. Nowakowski, Toledo, Ohio. Shoe holder. No. 1,416,378; May 16.
- Pedersen, Waldemar J., Floral Park, N. Y. Concrete form. No. 1,407,569; Feb. 21.
- Pederson, Emil. (See Fredriksen, W., and Pederson.)
- Pederson, John, Zumbrota, Minn. Excavator. No. 1,414,201; Apr. 25.
- Pederson, John M., Nome, N. Dak. Board-pulling tool. No. 1,415,693; May 9.
- Pedery, Joseph, New York, N. Y. Tie and coat sleeve press. No. 1,433,907; Oct. 31.
- Pedrick, Howard A., Bala, Pa. Calking machine. No. 1,431,033; Oct. 3.
- Pedrick, Howard A., Bala, Pa., assignor to Pedrick Tool and Machine Company. Taper-boring machine. No. 1,436,522; Nov. 21.
- Pedrick Tool and Machine Company. (See Pedrick, Howard A., assignor.)
- Pedroarena, Urbano, and G. C. Hoffman, Gardnerville, Nev. Traction wheel. No. 1,425,334; Aug. 8.
- Peduto, Sosmo, and V. Marino, Malden, Mass. Combination pot. No. 1,419,515; June 13.
- Peebles, David D., assignor to Bair, Peebles & Tooby, Eureka, Calif. Method of concentrating liquids containing organic matter. No. 1,438,502; Dec. 12.
- Peebles, Thomas A., Pittsburgh, Pa. Furnace. (Re-issue.) No. 15,399; July 4.
- Peed, Horace S., Kansas City, Mo. External contracting brake for automobiles. No. 1,434,022; Oct. 31.
- Peed, John T., Pasadena, Calif. Antiskid device. No. 1,407,711; Feb. 28.
- Peek, Will, et al. (See Barton, Charles N., assignor.)
- Peel, Alice, Wellington, New Zealand. Combined light and indicating plate for motor vehicles. No. 1,405,157; Jan. 31.
- Peel, Samuel K., and W. Englund, Sioux Falls, S. Dak. Decoy duck. No. 1,431,751; Oct. 10.
- Peel, Wirt D., San Francisco, Calif. Honey extractor. No. 1,437,737; Dec. 5.
- Peelle Company, The. (See Fenn, Emory W., assignor.)
- Peelle Company, The. (See Peelle, Robert S., assignor.)
- Peelle Company, The. (See Wexler, Benjamin, assignor.)
- Peelle, Robert S., Hollis, N. Y., assignor to The Peelle Company. Canopy door. No. 1,404,053; Jan. 17.
- Peelle, Robert S., New York, assignor to The Peelle Company, Brooklyn, N. Y. Controlling mechanism for elevator doors. No. 1,410,271; Mar. 21.
- Peelle, Robert S., New York, assignor to The Peelle Company, Brooklyn, N. Y. Controlling mechanism for elevator doors. No. 1,410,272; Mar. 21.
- Peepor, Herman F., Apache, Okla. Sifting apparatus. No. 1,411,979; Apr. 4.
- Peerblow Manufacturing Company. (See Schmitt, Francis P., assignor.)
- Peerless Baking Equipment Company. (See Denison, Nathan B., assignor.)
- Peerless Door Control Company. (See Lacey, Paul H., assignor.)
- Peerless Husker Company. (See Hoy, Clarence A., assignor.)
- Peerless Husker Company. (See Sells, Ogden S., assignor.)
- Peerless Insulated Wire & Cable Company. (See Bradt, Merritt B., assignor.)
- Peerless Insulated Wire and Cable Company, The. (See Cook, William E., assignor.)
- Peerless Machinery Company, The. (See Lautenschlager, William F., assignor.)
- Peerless Manufacturing Company. (See McMin, John E., assignor.)
- Peerless Motor Car Company, The. (See Strickland, William R., assignor.)
- Peerless Rubber Manufacturing Company. (See Kent, William J., assignor.)
- Peerless Smoking Jacket Company. (See Leiken, Philip, assignor.)
- Peers, Henry E., Topeka, Kans., assignor to American Bureau of Engineering, Inc., Chicago, Ill. Battery rack. No. 1,410,716; Mar. 28.
- Peerson, James M., Florence, Ala. Feed mechanism for presses. No. 1,411,299; Apr. 4.
- Peerson, James M., Florence, Ala. Trumper. No. 1,428,609; Sept. 12.
- Peerson, James M., Huntsville, Ala. Double-box cotton press. No. 1,428,610; Sept. 12.
- Peet, Owen V. (See Moore, E. M., and Peet.)
- Peffer, Arthur W., Milwaukee, Wis. Dust remover. No. 1,438,719; Dec. 12.
- Peffly, Alonzo N., San Francisco, Calif. Calendar device. No. 1,430,112; Sept. 26.
- Pegaltaz, Henri, Granges, Switzerland. Surgical dilator. No. 1,433,031; Oct. 24.
- Pegler, Emile J., New York, N. Y. Transparent insulation. No. 1,428,056; Sept. 5.
- Pegram, George H., South Orange, N. J. Composite railway tie. No. 1,425,686; Aug. 15.
- Pehrson, Alfred K., assignor to Pressed Steel Car Company, Pittsburgh, Pa. Release and take-up device for brakes. No. 1,422,125; July 11.
- Peiffer, John M., Bloomington, assignor of one-half to E. J. German, Normal, Ill. Cleaner for the casting pots or pot wells of linotype and intertype machines. No. 1,429,900; Sept. 19.
- Peigler, Commodore T., Rock Hill, S. C. Internal-combustion engine. No. 1,419,688; June 13.
- Peil, Joseph, Bloomer, Wis. Valve-controlling device. No. 1,436,523; Nov. 21.
- Peiler, Karl E. (See Lorenz, E. H., and Peiler.)
- Peiler, Karl E., West Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Apparatus for feeding molten glass. No. 1,405,936; Feb. 7.
- Peine, Adolphus G., assignor to Alfred Decker & Cohn, Inc., Chicago, Ill. Coat-tail vent construction. No. 1,402,954; Jan. 10.
- Peirce, Edward, Opportunity, Wash. Chute. No. 1,440,316; Dec. 26.
- Peirce, Ralph S., Hinsdale, Ill. Attaching device. No. 1,407,570; Feb. 21.
- Peirce, Thomas J. H., Cranston, R. I. Oil burner. No. 1,410,112; Mar. 21.
- Peirce, Thomas W., Boston, Mass., F. T. Owens, Ridgway, Pa., and E. M. Taylor, New York, N. Y. Twin wall brick. No. 1,410,953; Mar. 28.
- Peirce, William B. (See Hubbell, Marian, assignor.)
- Peirez, Woolf, New York, assignor, by mesne assignments, to K. Sommers, Brooklyn, N. Y. Gutter hanger. No. 1,434,221; Oct. 31.
- Peiter, Frederick, assignor to Robert Sayre Kent, Inc., Brooklyn, N. Y. Kilm. No. 1,434,023; Oct. 31.
- Pejchar, Josef, Brooklyn, N. Y. Locking device for pins. No. 1,410,592; Mar. 28.
- Pejchar, Josef, Brooklyn, N. Y. Fastening device for brooches and other articles. No. 1,436,675; Nov. 28.
- Peleskey, Andrew, Martins Ferry, Ohio. Fencepost. No. 1,420,140; June 20.
- Pell, Henry W. L., Tonbridge, assignor to South of England Agricultural Machinery Company, Limited, Chesham, London, England. Detachable pulley. No. 1,408,138; Feb. 28.
- Pelletier, Henry E., Newark, assignor to Pelletier Products Mfg. Co., Inc., Elizabeth, N. J. Pump. No. 1,435,973; Nov. 21.
- Pelletier, Henry E., Newark, assignor to Pelletier Products Mfg. Co., Inc., Elizabeth, N. J. Stuffing box for pumps. No. 1,435,974; Nov. 21.
- Pelletier Products Mfg. Co. (See Pelletier, Henry E., assignor.)
- Pelling, Ernest R., Croydon, and V. A. Mattick, Beckenham, England. Motor tractor plow. No. 1,403,101; Jan. 10.
- Pelling, Ernest R., Croydon, and V. A. Mattick, Beckenham, England. Motor tractor. No. 1,412,132; Apr. 11.
- Pelling, Ernest R., Croydon, assignor of one-half to V. A. Mattick, Beckenham, Kent, England. Motor tractor. No. 1,412,419; Apr. 11.
- Pelmar, Joseph, Sr., Deerfield, Kans. Bolster stake. No. 1,420,691; June 27.
- Pelot, Frank D., et al., trustees. (See Pelot, Frank D., assignor.)
- Pelot, Frank D., Dallas, assignor to F. D. Pelot, R. L. Thornton, and M. F. Brown, trustees for the Holder Company, a common-law trust, Dallas County, Tex. Cigar-box lid holder. No. 1,415,388; May 9.
- Peluse, Seneca W., and E. W. Cudworth, Arlington, Vt. Lock. No. 1,439,021; Dec. 19.
- Pelterie, Robert E., Paris, France. Hydraulic pump. No. 1,418,672; June 6.
- Peltier, Arthur H., Bristol, Tenn. Auxiliary spring. No. 1,408,394; Feb. 28.
- Pelton, Alfred. (See Loy, J. Wallace, assignor.)
- Pelton, Charles H., assignor to The Thomas Manufacturing Co., Springfield, Ohio. Agricultural implement. No. 1,410,113; Mar. 21.
- Pelton, Charles H., assignor to The Thomas Manufacturing Company, Springfield, Ohio. Agricultural implement. No. 1,415,111; May 9.
- Pelton, Clyde S., Cleveland Heights, Ohio. Control valve for motor-car heaters. No. 1,437,010; Dec. 5.
- Pelton, John C., Sierra Madre, Calif. Mold-forming apparatus. No. 1,409,464; Mar. 14.
- Pelton Water Wheel Co. (See Buehle, E., and Hutchinson, assignors.)
- Pemberton, Elmer, Hyde Park, Calif. Heating and ventilating construction. No. 1,433,843; Oct. 31.
- Pembor, Thomas J. (See Watt, Frederick, assignor.)
- Pencil Products Corporation. (See Most, Lucifer J., assignor.) (Reissue.)
- Pencil Products Corporation. (See Salz, James, assignor.)
- Pendergast, Frederick W., Cambridge, Mass. Mop. No. 1,427,627; Aug. 29.
- Pendergast, George, and R. F. Ethier, Milwaukee, Wis. Fastener for license plates. No. 1,421,548; July 4.
- Pendergast, George E., Washington, D. C. Pressure detector. No. 1,408,221; Feb. 28.
- Pendleton, Charles E., Enid, Okla. Engine-exhaust cooker. No. 1,411,458; Apr. 4.

Alphabetical list of patentees—Continued.

- Pendleton, William H., Washington, D. C. Antiskidding device. No. 1,417,560; May 30.
- Pendray, Herbert J., Victoria, British Columbia, Canada. Station indicator. No. 1,417,765; May 30.
- Pendry, William R., Cleveland, Ohio. Loading chute. No. 1,408,466; Mar. 7.
- Penfield, Raymond C. (See Allen, William H., assignor.)
- Penfield, Raymond C. (See Wallace, William W., assignor.)
- Penfield, Raymond C. (See Weber, B. F., and Woodford, assignors.)
- Penfield, Raymond C., New York, N. Y., assignor to Hadfield-Penfield Steel Company, Bucyrus, Ohio. Manufacturing shells. No. 1,412,794; Apr. 11.
- Penhallegon, John J., Mineral Point, Wis. Tire-chain fastener. No. 1,407,438; Feb. 21.
- Penick & Ford, Ltd. (See Allen, Paul W., assignor.)
- Penick & Ford, Ltd. (See Lenders, A. W. H., and Allen, assignors.)
- Penick & Ford, Ltd. (See Lenders, A. W. H., and Bauer, assignors.)
- Penick & Ford, Ltd. (See Owen, William L., assignor.)
- Penland, William B., Vallejo, Calif. Folding camp table. No. 1,420,057; June 20.
- Penman, Alan C., assignor to American Car and Foundry Company, New York, N. Y. Uncoupling device. No. 1,432,204; Oct. 17.
- Penn, Charles F., assignor of one-half to R. O. Scambler, Spokane, Wash. Vehicle chassis. No. 1,414,749; May 2.
- Penn-Greg Mfg. Co. (See Pennig, Bernard T., assignor.)
- Penn Rubber Products Corporation. (See Heist, Stuart H., assignor.)
- Penner, Abram C., Oroville, assignor of one-half to G. E. Sibbett, Berkeley, Calif. Wear plate for dredge tumblers. No. 1,430,846; Oct. 3.
- Penner, Peter, Chicago, Ill. Lock. No. 1,437,072; Nov. 28.
- Pennowell, John F. (See Edwards, William H., assignor.)
- Penney, Horace B., Chicago, Ill. Window lift. No. 1,436,287; Nov. 21.
- Penney, John A., Malden, Mass. Hoop. No. 1,434,312; Oct. 31.
- Pennig, Bernard T., assignor to Penn-Greg Mfg. Co., St. Paul, Minn. Mail box in house walls. No. 1,423,351; July 18.
- Penniman, William B. D., Baltimore, Md. Apparatus for cracking oils. No. 1,429,622; Sept. 19.
- Penniman, William B. D., Baltimore, Md. Apparatus for cracking oils. No. 1,429,623; Sept. 19.
- Penning, Richard M., Clayton, Mo. Ice-marking machine. No. 1,406,999; Feb. 21.
- Pennington, Clarence S., Kansas City, Mo. Power-take-off apparatus. No. 1,403,913; Jan. 17.
- Pennington, Edward E., Exira, Iowa. Hog-catching device. No. 1,430,847; Oct. 3.
- Pennington, Harry, Wichita Falls, Tex. Oil-well heater. No. 1,426,407; Aug. 22.
- Pennington, John K., Los Angeles, Calif. Flue cap. No. 1,420,141; June 20.
- Pennington, John K., Los Angeles, Calif. Ventilator cap. No. 1,420,142; June 20.
- Pennington, John R. (See Pennington, William D., and J. R.)
- Pennington, Loyd A., Emporia, Kans. Mud-chain coupling. No. 1,414,041; Apr. 25.
- Pennington, William D. and J. R., Chicago, Ill. Clock bank. No. 1,431,752; Oct. 10.
- Pennington, William D. and J. R., Chicago, Ill. Clock bank. No. 1,431,753; Oct. 10.
- Pennock, Theodore E., Rochester, N. Y. Bottle-filling machine. No. 1,418,203; May 30.
- Pennsylvania Company for Insurances on Lives and Granting Annuities, The. (See Heidberg, F., and Vanderkleed, assignors.)
- Pennsylvania Crusher Company. (See Battey, William A., assignor.)
- Pennsylvania Crusher Company. (See Hartman, William H., assignor.)
- Pennsylvania Crusher Company. (See Hiller, Joseph L., assignor.)
- Pennsylvania-Kentucky Oil and Gasoline Refining Company. (See Tilton, Elvin, assignor.)
- Pennsylvania Pump and Compressor Co. (See Raymond, Ward, assignor.)
- Pennsylvania Wire Glass Company. (See Cox, W., and Shuman, assignors.)
- Penny, Charles A., Quincy, Ill. Lamp for incubators. No. 1,433,645; Oct. 31.
- Penny, Lonnie T., Raleigh, N. C. Engine. No. 1,440,172; Dec. 26.
- Penrod, John, Beggs, and R. D. Thompson, Okmulgee, Okla. Oil well. No. 1,413,130; Apr. 18.
- Penrod, John, and R. D. Thompson, Okmulgee, Okla. Well pump. No. 1,425,276; Aug. 8.
- Penrod, John, and R. D. Thompson, Okmulgee, Okla. Oil pump. No. 1,440,099; Dec. 26.
- Penrod, John, and R. D. Thompson, Okmulgee, Okla. Oil well. No. 1,440,100; Dec. 26.
- Penrod, William A., Dayton, Ohio. Cooker and boiler. No. 1,422,472; July 11.
- Penrod, William F., Blanchester, assignor of two-thirds to Auto Sales and Service Company, Cincinnati, Ohio. Lighting system for automobiles. No. 1,421,549; July 4.
- Penrod, William F., Cincinnati, Ohio, assignor to A. J. Wissel, trustee. Transmission-gear system. No. 1,424,210; Aug. 1.
- Pension, Thomas J. (See Wright, G. W., and Pension.)
- Pension, Thomas M., et al. (See Wright, G. W., and Pension, assignors.)
- Pente, William, Chicago, Ill. Envelope and frame for pictures and the like. No. 1,421,097; June 27.
- Pentecost, Arthur, New York, N. Y., assignor to Wales Adding Machine Company, Wilkes-Barre, Pa. Paper-carriage mechanism. No. 1,435,493; Nov. 14.
- Pentecost, Arthur, New York, N. Y., and W. W. Fisher, Orange, N. J., assignors to Wales Adding Machine Company, Wilkes-Barre, Pa. Calculating machine. No. 1,433,908; Oct. 31.
- Pentecost, Elma B., Schenectady, N. Y. Hair-dressing device. No. 1,437,440; Dec. 5.
- Penton, Carl T., Detroit, Mich. Flexible mounting for tractor frames. No. 1,425,687; Aug. 15.
- Pentz, Albert D., jr., New York, N. Y. Sterilizer. No. 1,430,925; Oct. 3.
- Peone, Valley V., Chewelah, Wash. Traction engine. No. 1,416,379; May 16.
- People of the United States. (See Longenecker, Levi S., assignor.)
- People of the United States. (See Paine, H. S., and Hamilton.)
- People of the United States. (See Palkin, Samuel.)
- People of the United States. (See Phillips, Max.)
- People of the United States. (See Polhamus, Loren G.)
- People of the United States. (See Power, F. B., and Chesnut, assignors.)
- Peoples, John S., Washington, D. C., assignor to N. D. Baker, Secretary of War, trustee. Cartridge-belt container. No. 1,406,954; Feb. 14.
- Pepin, Joseph N., Chicago, Ill., assignor of one-half to W. H. Thonmen, Plymouth, Wis. Talking machine. No. 1,437,192; Nov. 28.
- Pepin, Napoleon, Woonsocket, R. I. Envelope. No. 1,439,637; Dec. 19.
- Pepper, Alvin L., New York, N. Y. Baseball game. No. 1,412,960; Apr. 18.
- Péquignet, Henri, Montreuil, France. Internal-combustion engine. No. 1,408,775; Mar. 7.
- Peraíta, Alonzo, Guatemala, Guatemala. Pencil holder. No. 1,430,401; Sept. 26.
- Percy, Clark. (See Mills, W., and Percy.)
- Percy Kent Company. (See Lombardo, Frank, assignor.)
- Perdue, Melvin, and W. A. Shaw, Shelby, Ohio. Ball-counting machine. No. 1,438,189; Dec. 12.
- Perelman, Joseph S., Norwood, R. I. Roof-scraping machine. No. 1,415,949; May 16.
- Peress, Joseph S., Manchester, England. Flexible joint for diving dresses. No. 1,402,645; Jan. 3.
- Perfect Vacuum Canning Company. (See Bach, Nells P., assignor.)
- Perfect Window Regulator Company. (See Norwood, H. E., and Maier, assignors.)
- Perfected Window Company. (See Lancaster, George W., assignor.)
- Perfection Dehydrator Company. (See Stricker, William, assignor.)
- Perfection Electric Products Co., The. (See Kruesheld, Henry, assignor.)
- Perfection Manufacturing Company. (See Dinesen, Laurits, assignor.)
- Perfecto Gear Differential Co. (See Starr, Charles E., assignor.) (Reissue.)
- Perfecto Gear Differential Co., The. (See Williams, Fred, assignor.)
- Perfex Radiator Company. (See Wolf, Edgar P., assignor.)
- Perforated Pad Company. (See Horton, Charles H., assignor.)
- Perin, C. P., et al. (See Humbert, Karl E., assignor.)
- Perin, Charles P., et al. (See Eustis, F. A., Hayward, Schleicher, and Belcher, assignors.)
- Perin, Charles P. (See Eustis, Frederic A., assignor.)
- Perin, Donald W., Brookline, assignor, by mesne assignments, to Perin "Rolo" Company, Somerville, Mass. Removable body construction. No. 1,418,966; June 6.
- Perin "Rolo" Company. (See Perin, Donald W., assignor.)
- Perinan, Antonio T., South Bethlehem, Pa. Rotary cutting apparatus for metal work. No. 1,418,459; June 6.
- Perine, William D. N., et al. (See Smith, John E., assignor.)
- Periolat, Charles B., Chicago, Ill. Clamp. No. 1,412,961; Apr. 18.
- Perkins Appliance Company. (See Perkins, J. L., Deloghia, and Croft, assignors.)
- Perkins Appliance Company. (See Perkins, J. L., Sickles, and Oakley, assignors.)
- Perkins, B. F., & Son, Inc. (See Bartlett, Henry B., assignor.)
- Perkins B. F., & Son, Inc. (See Bidwell, Paul W., assignor.)
- Perkins, Bert B., Monticello, Minn. Silage cover. No. 1,429,624; Sept. 19.
- Perkins, Clover L., Highland Park, Ill. Publication. No. 1,436,818; Nov. 28.
- Perkins Corporation. (See Hunt, Fred L., assignor.)

- Perkins, Earl G., Youngstown, Ohio. Rheostat. No. 1,437,267; Nov. 28.
- Perkins, Earl G., Youngstown, Ohio. Casing construction for rheostats. No. 1,437,268; Nov. 28.
- Perkins, Edwin A., Jamaica, N. Y. Roller bearing. No. 1,415,694; May 9.
- Perkins, Elmer E., Chicago, Ill. Drying kiln. No. 1,430,750; Oct. 3.
- Perkins, Floyd R., assignor to Charles H. Fuller Co., Chicago, Ill. Dishwasher. No. 1,416,744; May 23.
- Perkins, Frank C., assignor of one-eighth to G. J. Meyer, one-eighth to G. H. Meyer, one-eighth to L. P. Meyer, and one-eighth to E. Meyer, Buffalo, N. Y. Electric water heater. No. 1,403,102; Jan. 10.
- Perkins, Frank P. (See Anderson, C. E., and Perkins.)
- Perkins, Frederick S., Milwaukee, Wis. Vehicle control apparatus. No. 1,413,871; Apr. 25.
- Perkins, Hiram A. (See MacDowell, G. S., and Perkins.)
- Perkins, Jonathan, Jr., San Diego, Calif. Bit-holder extension. No. 1,405,625; Feb. 7.
- Perkins, Julian L., West Springfield, F. W. Sickles, and J. Oakley, assignors to Perkins Appliance Company, Springfield, Mass. Multiple-gear-cutting machine. No. 1,409,766; Mar. 14.
- Perkins, Julian L., West Springfield, F. W. Sickles, and J. Oakley, assignors to Perkins Appliance Company, Springfield, Mass. Multiple gear-cutting machine. No. 1,430,252; Sept. 26.
- Perkins, Julian L., West Springfield, L. E. Deloghia, Agawam, and H. D. Croft, Springfield, assignors to Perkins Appliance Company, Springfield, Mass. Worm and making the same. No. 1,437,009; Nov. 28.
- Perkins, Karl D. (See Karr, A. D., and Perkins.)
- Perkins, Karl D., New York, N. Y., and A. D. Karr, Newark, N. J., assignors to Audiffren Refrigerating Machine Co., New York, N. Y. Sanitary drinking fountain. No. 1,430,848; Oct. 3.
- Perkins, Martin V. H., New York, N. Y. Lifting jack. No. 1,403,812; Jan. 17.
- Perkins, Max, Philadelphia, Pa. Hair-drawing machine. No. 1,405,626; Feb. 7.
- Perkins, Nicholas P., Princeton, W. Va. Scroll-forming machine. No. 1,413,609; Apr. 29.
- Perkins, Thomas S., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fuse. No. 1,438,609; Dec. 12.
- Perkins, Walter G. (See Sulman, H. L., Taplin, Perkins, and Picard.)
- Perkins, Wayne A., Hawthorne, Nev. Pantographic apparatus for attaching to universal drafting machines. No. 1,415,695; May 9.
- Perkins, Willis A., Worcester, Mass. Automobile direction indicator. No. 1,412,195; Apr. 11.
- Perkins-Campbell Company, The, et al. (See Campbell, W. B., and Stricker, assignors.)
- Perlberg, Frank E. (See Anglemeyer, C. O., and Perlberg.)
- Perley, Reuben N., Stoneham, Mass. Shape and structure of submarines, mobile torpedoes, or explosive carriers. No. 1,436,902; Nov. 28.
- Perlitz, Alfred W., Youngstown, Ohio. Cable fastener. No. 1,415,112; May 9.
- Perlman, Harry, New York, N. Y. Pliers for cutting insulation. No. 1,406,486; Feb. 14.
- Perlman, Lena, Philadelphia, Pa. Surgical baker. No. 1,427,908; Sept. 5.
- Perlman, Louis H., New York, N. Y., assignor to General Motors Corporation. Wheel. No. 1,434,222; Oct. 31.
- Perlman, Louis H., New York, N. Y., assignor to General Motors Corporation. Wheel. No. 1,434,223; Oct. 31.
- Perme, Frank, sr., Cleveland, Ohio. Cabinet for music rolls. No. 1,428,183; Sept. 5.
- Permento, Anthony W., San Francisco, Calif. Cotter-pin attachment. No. 1,427,696; Aug. 29.
- Permin, Fred O., New York, N. Y. Amusement device. No. 1,413,349; Apr. 18.
- Perna, Joseph, Philadelphia, Pa. Excavator and pile driver. No. 1,411,180; Mar. 28.
- Perna, Joseph, Philadelphia, Pa. Dredging hoist trolley. No. 1,428,114; Sept. 5.
- Perna, Joseph, Philadelphia, Pa. Combination excavator and pile driver. No. 1,437,545; Dec. 5.
- Pernin, René. (See Lambert, E., and Pernin.)
- Pernot, Frederick E., and L. J. Rich, Washington, D. C. Selective reception of alternating currents. No. 1,426,334; Aug. 15.
- Perony, Jean A., assignor to Societe d'Outillage Mecanique et d'Usinage d'Artilerie, St. Ouen, Seine, France. Hydraulic windlass for drop-stamping machines. No. 1,417,856; May 30.
- Perony, Jean A., St. Ouen, France, assignor to Societe d'Outillage Mecanique et d'Usinage d'Artilerie, St. Ouen, France. Plate-bending press. No. 1,422,779; July 11.
- Perot, Edward S. (See Thompson, Olof, assignor.)
- Perotti, Lewis, Newark, N. J. Press. No. 1,415,611; May 9.
- Perpetual Air Bag Company. (See Merz, Jacob, assignor.)
- Perrault, Joseph E., Watertown, and C. H. Roper, Belmont, assignors to Hood Rubber Company, Watertown, Mass. Process of and apparatus for making battery jars. No. 1,412,962; Apr. 18.
- Perreten, Ernest A., Carrollton, Mo. Churn. No. 1,402,885; Jan. 10.
- Perri, Angelo, Watertown, assignor to Reece Shoe Machinery Company, Boston, Mass. Shoe-beel-preparing machine. No. 1,405,800; Feb. 7.
- Perri, Angelo, Watertown, assignor to Reece Shoe Machinery Company, Boston, Mass. Lasting machine. No. 1,420,572; June 20.
- Perri, Angelo, Watertown, assignor to Reece Shoe Machinery Company, Boston, Mass. Wiping mechanism. No. 1,420,573; June 20.
- Perri, Angelo, Watertown, assignor to Reece Shoe Machinery Company, Boston, Mass. Wiping mechanism. No. 1,420,574; June 20.
- Perrier, Charles M., Brockton, Mass. Ladder attachment. No. 1,414,893; May 2.
- Perrin, Arthur, Brookline, Mass. Sight for firearms. No. 1,428,115; Sept. 5.
- Perrin, Edouard, Paris, France. Propelling or bearing screw of variable pitch. No. 1,402,646; Jan. 3.
- Perrin, F. W., Sr. (See Discher, William G., assignor.)
- Perrin, J. C., et al. (See Henry W., and Bassford, assignors.)
- Perrin, William B., Koshkonong, Mo. Parcel-post-envelope tag. No. 1,428,494; Sept. 5.
- Perrine, George L., Gladstone, Ore. Furnace. No. 1,416,055; May 16.
- Perrine, Wilbur H., Trenton, N. J. Inner-tube-stripping post. No. 1,419,752; June 13.
- Perris, Isidor, Cleveland, Ohio. Filler for egg crates and the like. (Reissue.) No. 15,321; Mar. 28.
- Perron, Joseph. (See Lee, Harry G., assignor.)
- Perrot, Heinrich, Calw, Germany. Compasses. No. 1,429,625; Sept. 19.
- Perrotti, Charles, assignor of one-half to F. W. Palomba, Waterbury, Conn. Pencil. No. 1,404,138; Jan. 17.
- Perry, Ernest J., Birmingham, England. Suspension chain for electroliers and for like electrical purposes. No. 1,430,402; Sept. 26.
- Perry, Frank R., Chicago, Ill., assignor, by mesne assignments, of one-half to Benjamin Motor Products Co., Detroit, Mich. Duplex carburetor. No. 1,426,335; Aug. 15.
- Perry, Frank R., Chicago, Ill., assignor, by mesne assignments, to Benjamin Motors Products Co., Detroit, Mich. Fuel vaporizer. No. 1,431,326; Oct. 10.
- Perry, Frank R., Dearborn, assignor, by mesne assignments, to Benjamin Motors Products Co., Detroit, Mich. Fuel vaporizer. No. 1,431,327; Oct. 10.
- Perry, Gilbert G. (See Behan, C. D., and Perry.)
- Perry, George R., Washington, D. C. Key holder. No. 1,423,147; July 18.
- Perry, Hugh A., Chicago, Ill. Spike fastener. No. 1,435,872; Nov. 14.
- Perry, Ira D., assignor to T. D. Bell, Chicago, Ill. Attaching device for automobile bumpers. No. 1,418,395; June 6.
- Perry, James M., assignor to himself and A. B. Hanson, Detroit, Mich. Rolling mill. No. 1,411,583; Apr. 4.
- Perry, John H., Middletown, N. Y. Tire. No. 1,413,872; Apr. 25.
- Perry, John R. (See Lombom, A. H., and Perry.)
- Perry, Joseph M., Meridian, Miss. Display rack. No. 1,424,587; Aug. 1.
- Perry, Lorenzo T., and D. H. Hale, Pittsburg, Pa. Milk-bottle holder. No. 1,434,144; Oct. 31.
- Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Body of bituminous material and producing the same. No. 1,402,177; Jan. 3.
- Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Bituminous construction material and making the same. No. 1,409,767; Mar. 14.
- Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Floor covering. No. 1,409,768; Mar. 14.
- Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Composite felt and making the same. (Reissue.) No. 15,461; Sept. 26.
- Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Construction material. No. 1,438,966; Dec. 19.
- Perry, Raymond A., Oakland, Calif. Dirigible headlight for vehicles. No. 1,423,148; July 18.
- Perry, Robert S., Cave Spring, Ga., P. W. Webster, Pelham Manor, and V. K. Boynton, assignors to Perry & Webster, Inc., New York, N. Y. Obtaining sulphur. No. 1,408,467; Mar. 7.
- Perry, Thomas E. (See McLellan, Samuel T., assignor.)
- Perry, Willis D. (See Ballard, W. F., and Perry.)
- Perry, Willis D., and W. P. Ballard, Imbler, Ore. Built-in folding breakfast table. No. 1,438,055; Dec. 5.
- Perry & Webster, Inc. (See Boynton, Vern K., assignor.)
- Perry & Webster, Inc. (See Perry, R. S., Webster, and Boynton, assignors.)
- Perry & Webster Incorporated. (See Webster, Paul W., assignor.)
- Persapol Gesellschaft mit beschränkter Haftung. (See Stiepel, Carl, assignor.)
- Persichino, Michael. (See D'Andrea, Nicola, assignor.)
- Persohn, Earl R., assignor to The Viscold Company, Leominster, Mass. Comb. No. 1,419,753; June 13.
- Persons, Charles A., Worcester, Mass. Bicycle pedal. No. 1,425,215; Aug. 8.
- Persson, Anton, Calgary, Alberta, Canada. Demountable-wheel-rim mechanism. No. 1,430,253; Sept. 26.

Alphabetical list of patentees—Continued.

- Persson, Gustaf A., assignor to The Persson Laboratories, Mount Clemens, Mich. Container for sterile liquids. No. 1,417,561; May 30.
- Persson Laboratories, The. (See Persson, Gustaf A., assignor.)
- Persson, Otto F., Erie, Pa. Variable-pitch propeller. No. 1,406,277; Feb. 14.
- Persson, Paul, Chicago, Ill. Steering-wheel lock. No. 1,411,508; Apr. 4.
- Peruzzi, Mario, Wilkes-Barre, Pa. Nut-salting machine. No. 1,423,014; July 18.
- Pesarillo, Francisco M., Seattle, Wash. Suit vacuum cleaner. No. 1,426,765; Aug. 22.
- Pesavanto, Albert F., assignor to one-half to J. B. Guerra, Wilkes-Barre, Pa. Tire valve. No. 1,436,524; Nov. 21.
- Pescara, Raul P., Barcelona, Spain. System of propellers of variable incidence and differential motion for helicopter machines. No. 1,403,624; Jan. 17.
- Pescara, Raul P., Barcelona, Spain. System of aircraft propellers, with blades of variable incidence and cambering. No. 1,427,015; Aug. 22.
- Peschardt, Christian A. C., Aalborg, Denmark. Combined water container and basin. No. 1,431,841; Oct. 10.
- Pesek, Rudolf. (See Cichy, E., and Pesek.)
- Pessell, Robert C., Bournemouth, England. Grader for potatoes, roots, and fruit. No. 1,438,783; Dec. 12.
- Pestel, Arthur, New York, N. Y. Mechanism for releasing excessive strains. No. 1,410,717; Mar. 28.
- Pesushik, Roko P., New York, N. Y. Auto brake. No. 1,428,802; Sept. 12.
- Petcher, Edward C., St. Louis, Mo. Atomizer. No. 1,422,778; July 11.
- Peter, Alfred, Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Externally-heatable ignition plug. No. 1,417,766; May 30.
- Peterke, Edward C., assignor to The Loudon Machinery Company, Fairfield, Iowa. Guard rails for pig inclosures. No. 1,408,906; Mar. 7.
- Peterman, Herbert C., Philadelphia, Pa. Bottle crate. No. 1,439,638; Dec. 19.
- Peterman, Joseph A., Brooklyn, N. Y. Sash-operating mechanism. No. 1,418,732; June 6.
- Petermann, Robert J., New York, N. Y. Knitting device. No. 1,418,967; June 6.
- Peters, Alfred. (See Goldberg, P., Onnertz, and Peters.)
- Peters, Arthur E. (See Ditson, J., and Peters.)
- Peters, Carl, St. Louis, Mo. Aeroplane. No. 1,421,550; July 4.
- Peters, Caroline A., Los Angeles, Calif. Hat. No. 1,411,509; Apr. 4.
- Peters Cartridge Company, The. (See Peck, Harley T., assignor.)
- Peters, Frank M., and W. H. Hungerford, assignors to Peters Machinery Company, Chicago, Ill. Cutting machine. No. 1,417,562; May 30.
- Peters, Frank M., and W. H. Hungerford, assignors to Peters Machinery Company, Chicago, Ill. Sealing or labeling machine. No. 1,429,095; Sept. 12.
- Peters, Frank R., New York, N. Y., assignor to Franklin Railway Supply Company. Controlling mechanism for locomotive booster motors. No. 1,425,277; Aug. 8.
- Peters, Franklin F., Vancouver, British Columbia, Canada. Saw. No. 1,412,315; Apr. 11.
- Peters, Fred W., Oakmont, assignor to Verona Tool Works, Pittsburgh, Pa. Rail anchor. No. 1,435,731; Nov. 14.
- Peters, George C., Los Angeles, Calif. Wrench. No. 1,406,755; Feb. 14.
- Peters, James A., The White House, near Scarborough, England. Motor cycle. No. 1,413,350; Apr. 18.
- Peters, James A., The White House, near Scarborough, England. Motor cycle. No. 1,413,351; Apr. 18.
- Peters, James A., The White House, near Scarborough, England. Spring fork for motor cycles. No. 1,413,352; Apr. 18.
- Peters, James A., The White House, near Scarborough, England. Motor cycle. No. 1,416,745; May 23.
- Peters, James A., The White House, near Scarborough, England. Motor cycle. No. 1,420,498; June 20.
- Peters, James O., Dawson, Iowa. Starting-crank holder. No. 1,432,490; Oct. 17.
- Peters, James T., Los Angeles, Calif. Traction shoe. No. 1,430,751; Oct. 3.
- Peters, James T., Los Angeles, Calif. Toy automobile. No. 1,432,893; Oct. 24.
- Peters, John D., Westfield Township, Plymouth County, Iowa. Force-feeding attachment for corn shellers. No. 1,435,419; Nov. 14.
- Peters, John F., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Cooling system. No. 1,424,259; Aug. 1.
- Peters, John W., Roslyn, N. Y. Lawn mower. No. 1,411,584; Apr. 4.
- Peters, Karl R., Philadelphia, Pa. Tool for truing up crank shafts. No. 1,406,756; Feb. 14.
- Peters, Karl R., Philadelphia, Pa. Universal alignment bearing reamer and babbitting bar. No. 1,417,278; May 23.
- Peters, Karl R., Philadelphia, Pa. Shim for springs and the like. No. 1,417,279; May 23.
- Peters Machine & Manufacturing Company, The. (See Thieme, William H., assignor.)
- Peters Machinery Company. (See Peters, F. M., and Hungerford, assignors.)
- Peters, Maurice M., Coventry, England. Underframe or chassis for cycle side cars and the like. No. 1,424,588; Aug. 1.
- Peters, Peter H., Downers Grove, Ill. Folding chair. No. 1,424,031; July 25.
- Peters, Robert D., Knox, Ind. Reel. No. 1,426,597; Aug. 22.
- Peters, William A., assignor, by mesne assignments, to International Patent Licensing Corporation, Chicago, Ill. Camera. No. 1,427,546; Aug. 29.
- Peters, William E., Carbondale, Pa. Window-sash attachment. No. 1,406,411; Feb. 14.
- Petersen, Anker, Winthrop, Mass., assignor to American Wiremold Company, Hartford, Conn. Braiding machine. No. 1,413,773; Apr. 25.
- Petersen, Anker, Winthrop, Mass., assignor to American Wiremold Company, Hartford, Conn. Carrier drive for braiding machines. No. 1,413,931; Apr. 25.
- Petersen, Anker, Winthrop, Mass., assignor to American Wiremold Company, Hartford, Conn. Contact device for braiding-machine stop motions. No. 1,430,680; Oct. 3.
- Petersen, Anker, Winthrop, Mass., assignor, by mesne assignments, to The American Wiremold Company, Hartford, Conn. Conduit. No. 1,439,323; Dec. 19.
- Petersen, Anker, Winthrop, Mass., assignor to American Wiremold Company, Hartford, Conn. Braiding carrier. No. 1,439,324; Dec. 19.
- Petersen, Amus, St. Louis, Mo. Trolley-pole adjuster. No. 1,420,859; June 27.
- Petersen, Christian P. (See Atherton, F. K., and Webb, assignors.)
- Petersen, Ernest H., assignor of one-half to E. C. Anderson, St. Paul, Minn. Lightning-grounding device. No. 1,437,613; Dec. 5.
- Petersen, Frank H., assignor, by mesne assignments, of one-half to A. L. Weston, Denver, Colo. Tool holder. No. 1,435,873; Nov. 14.
- Petersen, Frank H., and J. H. Darling, assignors of two-thirds to A. S. Weston, Denver, Colo., and one-third to said Petersen. Machine for regrounding automobile crank shafts. No. 1,411,181; Mar. 28.
- Petersen, Hans, Davenport, Iowa. Sectional piston for engines. No. 1,428,656; Sept. 12.
- Petersen, Hans H., Correctionville, Iowa. Loader. No. 1,426,212; Aug. 15.
- Petersen, Holger M. (See Clews, B., and Petersen.)
- Petersen, Jens P., Caruthersville, Mo. Resilient wheel. No. 1,410,593; Mar. 28.
- Petersen, John H. D., assignor to Link-Belt Company, Chicago, Ill. Handling coal. No. 1,430,183; Sept. 26.
- Petersen, Ludvig T., Youngstown, Ohio. Conveyor belt. No. 1,405,158; Jan. 31.
- Petersen, Magne H., Christiania, Norway. System for wireless transmission of writing, pictures, and the like. No. 1,436,676; Nov. 28.
- Petersen, Neil P., Montreal, Quebec, Canada, assignor to Gillette Safety Razor Company, Boston, Mass. Hardening of thin steel sheets. No. 1,431,680; Oct. 10.
- Petersen, Nels P., et al. (See Larson, Hiram A., assignor.)
- Petersen, Olaf W., assignor to Petersen Stoker Company, Buffalo, N. Y. Grate. No. 1,424,937; Aug. 8.
- Petersen, Orslov, Cedar Falls, Iowa. Edge support for roofs. No. 1,427,412; Aug. 29.
- Petersen, Paul W., Chicago, Ill. Preserving comestibles. No. 1,420,739; June 27.
- Petersen, Paul W., Chicago, Ill. Preserving comestibles. No. 1,420,740; June 27.
- Petersen, Paul W., Chicago, Ill. Method and apparatus for handling combustibles. No. 1,422,126; July 11.
- Petersen, Phee E., Seattle, Wash. Derrick. No. 1,432,726; Oct. 17.
- Petersen Stoker Company. (See Petersen, Olaf W., assignor.)
- Petersen, Valdemar, St. Ansgar, Iowa. Wire-fence fastener. No. 1,422,127; July 11.
- Petersen, Virgo S. K., Gentofte, near Copenhagen, Denmark. Measuring the consumption of heat. No. 1,437,614; Dec. 5.
- Petersen, Walter E. C., Chicago, Ill. Chartometer. No. 1,416,380; May 16.
- Petersen, William A., Excelsior Springs, Mo. Vehicle sign. No. 1,417,767; May 30.
- Petersen, William A., assignor of one-half to J. J. Murphy, Excelsior Springs, Mo. Electrical scale. No. 1,405,322; Jan. 31.
- Petersen, William F., Chicago, Ill. Baker's oven. No. 1,435,975; Nov. 21.
- Peterson, Arvid, assignor to De Laval Steam Turbine Company, Trenton, N. J. Combined pressure and speed governor for steam-operated pumps. No. 1,407,041; Feb. 21.
- Peterson, Burt A., Rockford, assignor, by mesne assignments, to E. S. Nethercut, Evanston, Ill. Winder. No. 1,430,254; Sept. 26.
- Peterson, Carl, Bridgeport, Conn. Wrench. No. 1,405,432; Feb. 7.
- Peterson, Carl, Newcastle, Ind. Lid adjuster and support. No. 1,405,433; Feb. 7.

Alphabetical list of patentees—Continued.

- Peterson, Carl A., Superior, Wis. Gas mixer. No. 1,407,476; Feb. 21.
- Peterson, Carl E., Bridgeport, Conn. Buckle. No. 1,426,905; Aug. 22.
- Peterson, Charles B., Perryville, Md. Fastening device. No. 1,413,489; Apr. 18.
- Peterson, Christian J. (See Mengel, William R., assignor.)
- Peterson, Clarence E. (See Peterson, Oscar L., H. L., and C. E.)
- Peterson, Edwin A., Madison, Wis., assignor to The Smith-Lee Company, Oneida, N. Y. Bottle cap. No. 1,402,441; Jan. 3.
- Peterson, Edwin A., Madison, Wis., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,410,594; Mar. 28.
- Peterson, Edwin A., Madison, Wis., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,427,909; Sept. 5.
- Peterson, Edwin L., Pittsburgh, Pa. Hand truck. No. 1,424,938; Aug. 8.
- Peterson, Edwin L., assignor, by mesne assignments, to Sharon Pressed Steel Company, Pittsburgh, Pa. Coupling for trucks. No. 1,432,615; Oct. 17.
- Peterson, Emil. (See Lund, Levi, assignor.)
- Peterson, Emil A., and W. J. McGinnis, Appleton, Wis. Hydraulic control attachment for beating, bleaching, and washing engines. No. 1,416,056; May 16.
- Peterson, Frank W., Chicago, Ill. Auxiliary spring for pressure gauges. No. 1,439,975; Dec. 26.
- Peterson, Frederick R., Spokane, Wash. Brake attachment for automobiles. No. 1,436,903; Nov. 28.
- Peterson, George, Spokane, Wash. Clamp. No. 1,411,930; Apr. 4.
- Peterson, George F., Salt Lake City, Utah. Carburetor. No. 1,432,033; Oct. 17.
- Peterson, George H., Story City, Iowa. Intake manifold. No. 1,402,886; Jan. 10.
- Peterson, Gust C., Jamestown, N. Y. Railway-ticket-receipt punch. No. 1,405,434; Feb. 7.
- Peterson, Hans. (See Oliver, Ernon V., assignor.)
- Peterson, Harry L. (See Peterson, Oscar L., H. L., and C. E.)
- Peterson, Johann G., Hartford, Conn. Electrical attachment plug. No. 1,425,049; Aug. 8.
- Peterson, John, Minneapolis, Minn. Storm window. No. 1,416,057; May 16.
- Peterson, John T., Melrose Park, Ill. Carburetor. No. 1,412,487; Apr. 11.
- Peterson, John T., Maywood, Ill. Soldering iron. No. 1,436,677; Nov. 28.
- Peterson, Jonathan, Brooklyn, N. Y. Container and producing same. No. 1,411,510; Apr. 4.
- Peterson, Jonathan, Brooklyn, assignor to Combination Machine Company, New York, N. Y. Packaging. No. 1,414,706; May 2.
- Peterson, Jonathan, Brooklyn, assignor to Combination Machine Company, New York, N. Y. Carton. No. 1,425,335; Aug. 8.
- Peterson, Jonathan, Brooklyn, assignor to Combination Machine Company, New York, N. Y. Labeling machine. No. 1,433,909; Oct. 31.
- Peterson, Joseph L., Wellsburg, W. Va. Clutch. No. 1,430,468; Sept. 26.
- Peterson, Leonard J. (See Freeman, J. I., and Peterson.)
- Peterson, Martin L., Detroit, Mich. Pipe-bending machine. No. 1,439,118; Dec. 19.
- Peterson, Oscar, assignor to H. S. Mills, Chicago, Ill. Player roll. No. 1,420,860; Oct. 27.
- Peterson, Oscar L., H. L., and C. E., Norwich, Conn. Antiskid device for automobile tires. No. 1,435,551; Nov. 14.
- Peterson, Palmer M. (See Ehrman, B., Johanson, and Peterson.)
- Peterson, Peter, Minneapolis, Minn. Toy cannon. No. 1,414,827; May 2.
- Peterson, Peter C., North Bend, assignor of forty-nine per cent to A. L. Johnson, Seattle, Wash. Automatic pistol. No. 1,405,321; Jan. 31.
- Peterson, Peter R., Salt Lake City, Utah, assignor to Ideal Rim Tool Co., Jacksonville, Fla. Rim tool. No. 1,423,875; July 25.
- Peterson, S. D. (See Schumacher, H. J., and Rice, assignors.)
- Peterson, Swan O., Rock Island, Ill., assignor of one-half to M. M. McCullough, Davenport, Iowa. Road-building machine. No. 1,410,114; Mar. 21.
- Peterson, Thorwald B., assignor to L. C. Sharp, Plattsmouth, Nebr. Method and means for mixing liquids with dry material. No. 1,415,851; May 9.
- Peterson, Valdimar M., assignor of one-half to C. Hair, Denver, Colo. Spark plug. No. 1,409,400; Mar. 14.
- Peterson, Wallace P. (See Osburn, Clayton E., assignor.)
- Peterson, Walter C., assignor to Packard Motor Car Company, Detroit, Mich. Gas furnace. No. 1,416,746; May 23.
- Peterson, Walter L., Lyons, Nebr. Seeder attachment for cultivators. No. 1,414,580; May 2.
- Peterson, Walter S. (See Robertson, F. J., and Peterson.)
- Peterson, William, Sargent, Nebr. Water motor. No. 1,426,838; Aug. 22.
- Petersson, Gustaf H. (See Jung, K. T. F., and Peterson.)
- Petherick, Percival E., Gisborne, New Zealand. Means for automatically displaying lantern slides. No. 1,402,791; Jan. 10.
- Pethick, Philip C., New Haven, Conn. Calendar. No. 1,429,096; Sept. 12.
- Petiot, Napoleon, New York, N. Y. Production of low-carbon ferro alloys. No. 1,428,057; Sept. 5.
- Petman, Robert, and W. C. Lister, Toronto, Ontario, Canada. Label or ticket holder for bottles. No. 1,410,220; Mar. 21.
- Petmecky, Fred, Austin, Tex. Sound reproducer. No. 1,410,115; Mar. 21.
- Petrarca, John P., Arctic, R. I. Pattern for shoe making. No. 1,425,278; Aug. 8.
- Petrasek, Charles J., New York, N. Y. Self-oiling rotary cutter. No. 1,421,713; July 4.
- Petri, Gunther H., Boston, Mass. Mixing machine. No. 1,428,704; Sept. 12.
- Petri, Peter, Lacon, Ill. Shock absorber. No. 1,405,937; Feb. 7.
- Petrie, August, assignor to Milwaukee Stamping Co., West Allis, Wis. Manufacturing extensible slide supports for wardrobe trunks. No. 1,402,012; Jan. 3.
- Petrie, Ernest J., Los Angeles, Calif. Battery. No. 1,405,627; Feb. 7.
- Petrie, Enos B., Brooklyn, N. Y. Turbine. No. 1,403,103; Jan. 10.
- Petrie, James R., San Francisco, Calif. Two-part piston ring. No. 1,426,766; Aug. 22.
- Petrik, Boniface, assignor to Société Petrik & Cie., St. Etienne, France. Sporting gun. No. 1,434,627; Nov. 7.
- Petrik, Boniface, assignor to Société Petrik & Cie., St. Etienne, France. Sporting gun. No. 1,434,628; Nov. 7.
- Petroleum Fuel Engineering Company. (See Hurley, Joseph C., assignor.)
- Petroleum Heat and Power Company. (See Fesler, Milton A., assignor.)
- Petroleum Rectifying Company. (See Harris, Ford W., assignor.)
- Petroleum Rectifying Company. (See Meredith, Wynn, assignor.)
- Petroleum Rectifying Company of California. (See Eddy, H. C., and Worthington, assignors.)
- Petroleum Rectifying Company of California. (See Eddy, Harold C., assignor.)
- Petroleum Rectifying Company of California. (See Harris, Ford W., assignor.)
- Petropoulos, George P. (See Anston, G., and Petropoulos.)
- Petrow, Alex., San Francisco, Calif. Picture frame. No. 1,421,301; June 27.
- Petrow, Alex., San Francisco, Calif. Animated doll. No. 1,432,205; Oct. 17.
- Petry, Nicholas A., Philadelphia, Pa. Ventilator. No. 1,402,647; Jan. 3.
- Petsche, Gustav L., Yonkers, N. Y. Turbine. No. 1,412,257; Apr. 11.
- Pettigrew, Fred N., Fox Lake, Wis. Drive for motor vehicles. No. 1,440,239; Dec. 26.
- Pettengill, George M., assignor to Hamel Shoe Machinery Company, Haverhill, Mass. Cement-applying device for heel-nailing machines. No. 1,412,571; Apr. 11.
- Pettengill, George M., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Heel-nailing machine. No. 1,425,540; Aug. 15.
- Pettengill, Harry I., Flint, Mich. Root-crop harvester. No. 1,426,767; Aug. 22.
- Petters Limited. (See Brooks, Herbert, assignor.)
- Petters Limited. (See Duncan, Herbert G., assignor.)
- Pettersen, Gustav. (See Hostetter, Frederick, assignor.)
- Pettersen, John A., Washington, D. C. Envelope-printing attachment for adding machines. No. 1,409,769; Mar. 14.
- Petterson, Magnus, Long Beach, Calif. Air-cushion construction. No. 1,416,233; May 16.
- Petterson, Olaf S., Denver, Colo. Vise. No. 1,418,733; June 6.
- Pettet, William T., assignor of one-half to T. C. Neece, Walnut Ridge, Ark. Fish box. No. 1,405,865; Feb. 7.
- Petty, Clyde H. (See Lewis, H., and Petty.)
- Petteys, Willard A., Wilcox, Nebr. Truck and dump wagon. No. 1,418,163; May 30.
- Pettibone Mulken Company. (See Strom, E. N., and Blomstrand, assignors.)
- Pettis, Clifton D., et al. (See Garrett, Myers A., assignor.)
- Pettis, Edson S., Mill Valley, Calif. Drum-filter agitator. No. 1,410,221; Mar. 21.
- Pettit, John D., Hollywood, Calif. Coin till. No. 1,438,135; Dec. 5.
- Petton, Charles H. (See Wilson, Newton A., assignor.)
- Petty, Carl T., Kansas City, Mo. Parcel check. No. 1,402,178; Jan. 3.
- Petty, Charles L., Haskell, Okla. Rail joint and car replacer. No. 1,416,504; May 16.
- Petty, David M., Bethlehem, Pa. Liquid rheostat. No. 1,433,646; Oct. 31.
- Petty, William E., Storm Lake, assignor to J. P. Christensen, Newell, Iowa. Folding animal crate. No. 1,406,278; Feb. 14.
- Petty, William E., Storm Lake, assignor to J. P. Christensen, Newell, Iowa. Collapsible hog crate. No. 1,426,315; Aug. 15.

Alphabetical list of patentees—Continued.

- Petyo, John, Gary, Ind. Combined clothes hanger and window ladder. No. 1,416,058; May 16.
- Petz, Frank. (See Bechart, Louis, assignor.)
- Petzold, Ferdinand P., Montreal, Quebec, Canada. Inserted-tooth saw. No. 1,434,629; Nov. 7.
- Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Reversible fulcrum and making same. No. 1,405,801; Feb. 7.
- Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Making reversible fulcrums. No. 1,407,886; Feb. 28.
- Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Reversible fulcrum. No. 1,418,734; June 6.
- Peyer, Emil, Wangen, assignor to Firm Walder & Co., Bruttisellen, Canton Zurich, Switzerland. Machine for attaching heels to boots and shoes. No. 1,403,104; Jan. 10.
- Peyron, Julius J. (See Ryan, Michael H., assignor.)
- Peyser, Joseph, Mount Vernon, N. Y., assignor, by mesne assignments, to Ackermann Manufacturing Company, Wheeling, W. Va. Seaming mechanism. No. 1,402,887; Jan. 10.
- Peyser, Joseph, Mount Vernon, N. Y., assignor, by mesne assignments, to Ackermann Manufacturing Company, Wheeling, W. Va. Seaming mechanism. No. 1,408,713; Mar. 7.
- Peyton, Ashley E., Denison, Tex. Clear-vision bank fixture. No. 1,420,942; June 27.
- Peyton, Harry, Detroit, Mich. Vehicle lamp. No. 1,420,741; June 27.
- Peyton, Joseph I. (See Hitt, S. E., and Peyton.)
- Peyton, Joseph I., Chicago, Ill., and S. E. Hitt, Elyria, Ohio. Hot-top ingot mold. No. 1,429,251; Sept. 19.
- Pezzetti, Henry, Philadelphia, Pa. Street-cleaning equipment. No. 1,426,403; Aug. 22.
- Pfaff, Michael. (See Falk, Andrew, assignor.)
- Pfanenschmidt, Paul L., Dewsbury, England. Furnace. No. 1,413,932; Apr. 25.
- Pfanhauser, Otto, Vienna, Austria. Motor plow. No. 1,402,648; Jan. 3.
- Pfannenstiehl, Harry, East Orange, N. J., and E. P. Bancroft, Brooklyn, assignors to Western Electric Company, Incorporated, New York, N. Y. Printing-telegraph receiver. No. 1,426,768; Aug. 22.
- Pfanstiehl, Carl, Highland Park, assignor to Pfanstiehl Company, Inc., North Chicago, Ill. Poppet valve. No. 1,423,876; July 25.
- Pfanstiehl Company. (See Pfanstiehl, Carl, assignor.)
- Pfandler Company, The. (See Nichols, E. B., and Carroll, assignors.)
- Pfaus, August, Sr. (See Pfaus, Fred and A., Sr.)
- Pfaus, Fred and A., Sr., Newark, N. J. Jewelry coupling. No. 1,403,192; Jan. 10.
- Pfaus, Fred and A., Sr., Newark, N. J. Bracelet construction. No. 1,406,073; Feb. 7.
- Pfeffer, John E. (See Mitchell, F. W., and Pfeffer.)
- Pfefferkorn, Otto. (See Magidson, I., Arenz, and Pfefferkorn.)
- Pfeiffer, George E. (See Budde, William, assignor.)
- Pfeiffer, John, assignor to The Springfield Auto Lock Company, Springfield, Ohio. Lock for motor vehicle. No. 1,436,525; Nov. 21.
- Pfeiffer, Paul J., assignor to The Virden Company, Cleveland, Ohio. Electric-light fixture. No. 1,416,124; May 16.
- Pfeiffer, Adam, Kingsville, Tex. Lister plow. No. 1,438,398; Dec. 12.
- Pfeiffer, Fred B., Akron, Ohio. Pneumatic tire. No. 1,426,005; Aug. 15.
- Pfeiffer, Frederick, Sr., Brooklyn, N. Y. Insect catcher and destroyer. No. 1,411,931; Apr. 4.
- Pfeiffer, Karl O., assignor to Crane Company, Chicago, Ill. Indexed handle or handwheel. No. 1,402,013; Jan. 3.
- Pfeiffer, Stephan, St. Plit, Neubau Station, Ribeauville Circle, Upper Alsace, assignor to C. Koller and C. Freysz, Strasburg, Alsace, France. Hand plane. No. 1,417,857; May 30.
- Pfeil, Frank L. H., Philadelphia, Pa. Internal-combustion engine. No. 1,423,680; July 25.
- Pfenninger, Hermann, Wädenswil, Switzerland. Heat-storing and water-evaporating plant. No. 1,418,460; June 6.
- Pfister, Charles C., Pawnee Rock, Kans. Extension feeder and thrasher. No. 1,423,149; July 18.
- Pfister & Vogel Leather Co. (See Bossert, Charles P., assignor.)
- Pfisterer, Karl, Zoffenhhausen, Germany. Mixing apparatus. No. 1,404,701; Jan. 24.
- Pfizer, Harry M., assignor to Commonwealth Steel Company, St. Louis, Mo. Car motor truck. No. 1,409,402; Mar. 14.
- Pfueger, Charles T., and W. L. Adams, assignors to The Enterprise Manufacturing Company, Akron, Ohio. Artificial bait. No. 1,418,326; June 6.
- Pfohl, Frank X., Buffalo, N. Y. Automatic counting, stacking, and transferring apparatus. No. 1,412,795; Apr. 11.
- Pfund, Hans C., Des Moines, Ia., and R. L. Ash, Nevada, Mo. Toilet-seat-cover holder and dispenser. No. 1,440,101; Dec. 26.
- Pfunder, Emil L., Windsor, assignor to The J. M. Ney Company, Hartford, Conn. Chuck collet. No. 1,413,680; Apr. 25.
- Pfyffer, Siegfried. (See Ferrière, G., and Pfyffer.)
- Phair, Robert A., Allendale, N. J., assignor, by mesne assignments, to H. Kohnstamm & Co., Inc. Laundering method and material. No. 1,435,332; Nov. 14.
- Phair, William J., Omakere, Waipawa, New Zealand. Draft coupling for plows and the like. No. 1,433,225; Oct. 24.
- Phalen, Clarence W., Quincy, Mass. Index guide. No. 1,437,773; Dec. 5.
- Phelan, Richard A., and H. A. Weguelin, St. Louis, Mo. Fume generator. No. 1,405,802; Feb. 7.
- Phelps, Clarence A., Whiting, Ind. Safety bung. No. 1,404,639; Jan. 24.
- Phelps Dodge Corporation. (See Butler, P. P., and Stout, assignors.)
- Phelps, Earle B., and A. F. Stevenson, Ridgewood, and J. C. Baker, Ridgefield Park, N. J., assignors to A. W. Johnson, New York, N. Y. Manufacture of butter fat. No. 1,404,054; Jan. 17.
- Phelps, Edwin S., New York, N. Y. Vibration recorder for automobiles and other vehicles. No. 1,408,635; Mar. 7.
- Phelps, George H., Warehouse Point, Conn., and T. E. Murray, Jr.; said Phelps assignor of his entire right to T. E. Murray, Brooklyn, N. Y. Forming flanges on tubes and similar articles. No. 1,439,480; Dec. 19.
- Phelps, Henry C., and J. C. Fox, Glendale, Calif. Antislip spring for piston rings. No. 1,422,780; July 11.
- Phelps, Joseph, North Caldwell, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,422,617; July 11.
- Phelps, Lucius J., Los Angeles, assignor of one-half to W. J. Humphreys, San Gabriel, Calif. Homogenizer. No. 1,423,488; July 18.
- Phelps, Philip M. M. (See Mahar, G. M., and Phelps.)
- Phelps, Sebring I., Wilmette, Ill. High-temperature electric heater. No. 1,402,376; Jan. 3.
- Phelps, Sebring I., Rockford, Ill. Electric heater. No. 1,432,491; Oct. 17.
- Phelps, Spencer H., assignor, by mesne assignments, to Beeman Tractor Company, Minneapolis, Minn. Wheel. No. 1,425,129; Aug. 8.
- Phelps, Victor D., Whiting, Ind., and L. Molyneux, Woodland, Ill. Scrubbing car. No. 1,402,649; Jan. 3.
- Phenoleum G. m. b. H. (See Jeschke, Richard, assignor.)
- Philadelphia Drying Machinery Company, The. (See Allsop, T., and Sibson, assignors.)
- Philadelphia Drying Machinery Company, The. (See Parkes, Bertrand A., assignor.)
- Philadelphia Storage Battery Company. (See Grinditch, William H., assignor.)
- Philadelphia Storage Battery Company. (See Martin, Harold M., assignor.)
- Philadelphia Storage Battery Company. (See Skinner, J. M., Mortimer, and Pearson, assignors.)
- Philadelphia Textile Machinery Company, The. (See Schwartz, Charles W., Jr., assignor.)
- Philbert, Major, Windsor, assignor to J. M. Campbell, Santa Rosa, Calif. Pruning device. No. 1,436,603; Nov. 21.
- Philbrick, Orle E., assignor to Smith, Whitcomb & Cook Co., Barre, Vt. Stone-polishing wheel. No. 1,404,139; Jan. 17.
- Philbrin Corporation. (See Brinton, William C., Jr., assignor.)
- Philbrook, Joshua M., Scappoose, Oreg. Power-generating system. No. 1,416,867; May 23.
- Philip, Carl. (See Walsh, Philip J., assignor.)
- Phillip, Peter C., Bowlus, Minn. Hay distributor. No. 1,407,571; Feb. 21.
- Phillip, Richard, assignor to Firm Magnet-Werk G. m. b. H. Eisenach Spezialfabrik für Elektromagnet-Apparate, Eisenach, Saxe-Weimar, Germany. Machine for reducing turning chips and the like. No. 1,420,742; June 27.
- Phillippe, Florent, sr., South Charleston, W. Va. Rapid towel hanger. No. 1,437,546; Dec. 5.
- Philippi, Carl A., New York, N. Y. Conveying and pouring device for molten metal. No. 1,437,010; Nov. 28.
- Phillips, Frank, Hammond, Ind. Auto heel rest. No. 1,418,968; June 6.
- Phillips, William E., assignor to The Stearns Conveyor Company, Cleveland, Ohio. Wheel. No. 1,427,320; Aug. 29.
- Philippi, Joseph F., Hamburg, N. Y. Blackboard. No. 1,437,193; Nov. 28.
- Phillips, Alexander W., East Orange, N. J. Treating cellulose ester products. No. 1,411,669; Apr. 4.
- Phillips, Arthur T. (See Theed, W. H. A., and Phillips.)
- Phillips, Byron B., Hudson, N. Y. Speed reducing power-transmitting mechanism. No. 1,414,894; May 2.
- Phillips, Cecil O., assignor to The American Cotton Oil Company, New York, N. Y. Food product. No. 1,410,345; Mar. 21.
- Phillips, Cecil O., assignor to American Cotton Oil Company, New York, N. Y. Treatment of cotton-seed meats. No. 1,410,346; Mar. 21.
- Phillips, Charles, Jr., Philadelphia, Pa. Telegraph transmitter. No. 1,407,572; Feb. 21.
- Phillips, Chester. (See Phillips, Homer L., assignor.)
- Phillips, Edgar V., Jamestown, N. Y. Combination fruit-jar opener and sealer. No. 1,429,452; Sept. 19.

Alphabetical list of patentees—Continued.

- Phillips, Edward H., Fort Mill, S. C. Crosstie. No. 1,427,628; Aug. 29.
- Phillips, Edward H., Fort Mill, S. C. Rail fastener. No. 1,427,629; Aug. 29.
- Phillips, Edward S., Seattle, Wash. Destroying stumps. No. 1,436,053; Nov. 21.
- Phillips, Ellis J. G., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Means for securing overhead tracks in place. No. 1,422,473; July 11.
- Phillips, Ellis J. G., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Mechanism for operating sliding doors. No. 1,428,555; Sept. 12.
- Phillips, Ellis J. G., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Hinge. No. 1,432,782; Oct. 24.
- Phillips, Ellis J. G., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Trolley track. No. 1,433,647; Oct. 31.
- Phillips, Elmer V., Philadelphia, Pa. Wall construction. No. 1,421,986; July 4.
- Phillips, Esie R., New Church, Va. Furrow opener for fertilizer distributors. No. 1,413,353; Apr. 18.
- Phillips, Francis H., Old Westbury, N. Y. Burglar alarm. No. 1,420,743; June 27.
- Phillips, Francis V., deceased; K. Phillips, administratrix, Orlando, Fla. Dado and miter attachment for saw tables. No. 1,429,097; Sept. 12.
- Phillips, Frederick, Brixton, London, England, assignor to The National Cash Register Company, Dayton, Ohio. Machine for printing and issuing tickets and the like. No. 1,425,050; Aug. 8.
- Phillips, Fredrick W., Bexley Heath, England. Taximeter. No. 1,438,853; Dec. 12.
- Phillips, Frederick W., Weymouth, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stamping machine. No. 1,439,753; Dec. 26.
- Phillips, Homer L., assignor of one-third to C. Phillips, South Bend, Ind. Flushing tank. No. 1,417,280; May 23.
- Phillips, James F. A., Trenton, N. J. Spring lubricator. No. 1,421,551; July 4.
- Phillips, Joan C., Wellesley Hills, Mass. Nursing-bottle holder. No. 1,422,223; July 11.
- Phillips, John E. (See Shepard, F. E., and Phillips.)
- Phillips, John E., Birmingham, England. Guard for power presses. No. 1,418,327; June 6.
- Phillips, John X. (See Wrenn, H. A., and Phillips.)
- Phillips, John X., Jr., et al. (See Wrenn, H. A., and Phillips, assignors.)
- Phillips, Kate, administratrix. (See Phillips, Francis V.)
- Phillips, Leland E. (See Goodwin, W. M., and Phillips.)
- Phillips, Max, Evansville, Wis., dedicated, by mesne assignments, to the people of the United States. Manufacture of synthetic thymol. No. 1,432,298; Oct. 17.
- Phillips, Mills S., Tacoma, Wash. Car-enumerating device. No. 1,421,023; June 27.
- Phillips Mine & Mill Supply Co. (See Phillips, R. F., and McCloskey, assignors.)
- Phillips, Norman E., and J. E. Mathers, Washington, D. C. Dirigible headlight for automobiles. No. 1,430,320; Sept. 26.
- Phillips, Ralph O., Somerville, Mass., assignor to The Barrett Company. Composition of matter and producing the same. No. 1,413,557; Apr. 18.
- Phillips, Raymond H., Trenton, N. J. Mat. No. 1,422,887; July 18.
- Phillips, Raymond H., assignor to Essex Rubber Company, Trenton, N. J. Handle grip. No. 1,421,098; June 27.
- Phillips, Robert F., and L. J. McCloskey, assignors to Phillips Mine & Mill Supply Co., Pittsburgh, Pa. Washer for mine-car wheels. No. 1,423,877; July 25.
- Phillips, Robert W. L., and J. R. Blaikie, Bedford, England. Furnace. No. 1,435,621; Nov. 14.
- Phillips, Thomas H., Jr., Fort Myers, Fla. Clam-dredging machine. No. 1,415,113; May 9.
- Phillips, Thomas H., assignor to The Youngstown Steel Company, Youngstown, Ohio. Forging press. No. 1,431,681; Oct. 10.
- Phillips, William H., Mile End, South Australia, Australia. Combined twine spinning and balling machine. No. 1,436,321; Nov. 21.
- Phillipson, Emil, New York, N. Y. Electric heating apparatus. No. 1,431,418; Oct. 10.
- Philo, Clinton M., and F. O. Bowers, Lansing, Mich. Game. No. 1,419,074; June 6.
- Philp, Joseph H., Los Angeles, Calif. Rotary razor. No. 1,420,948; June 27.
- Phinney, Edgar E., West Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Calculating machine. No. 1,432,256; Oct. 17.
- Phinney, Edgar E., West Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Keyboard-clearing means for calculating machines. No. 1,432,616; Oct. 17.
- Phipps, Edward H., Cincinnati, Ohio. Hinge structure. No. 1,417,563; May 30.
- Phipps, John H., and H. F. Turner, Wickliffe, Ky. Wrench. No. 1,408,958; Mar. 7.
- Phipps, Walter H., assignor to Ordnance Engineering Corporation, New York, N. Y. Chassis structure for airplanes. No. 1,416,747; May 23.
- Phoenix-Hermetic Company. (See Tallafarro, Thomas L., assignor.)
- Phoenix Horse Shoe Company. (See Boone, Enoch, assignor.)
- Phoenix Knitting Works. (See Friedlander, Arnold, assignor.)
- Phonograph Control Corporation. (See Fegley, Victor, assignor.)
- Photographic Appliances Corporation. (See Dye, Glen M., assignor.)
- Photometric Products Corporation. (See Ladd, Lester L., assignor.)
- Photostat Corporation. (See Greene, John S., assignor.)
- Piatkowski, Jozef, Cobalt, Ontario, Canada. Combination bed and wardrobe. No. 1,409,770; Mar. 14.
- Platt, Richard F., Louisville, Ky. Method of and apparatus for supplying fuel to cylinders of internal-combustion engines. No. 1,436,904; Nov. 28.
- Picard, Frank A. (See O'Brien, J. G., and Picard.)
- Picard, Hugh F. K. (See Sulman, H. L., Tapiin, Perkins, and Picard.)
- Picciotto, Salvatore, New York, N. Y. Weight-motor device. No. 1,426,598; Aug. 22.
- Picha, Louis J. (See Choate, A. B., and Picha.)
- Pichard, Charles, assignor to La Societe Pichard Freres, Paris, France. Carroting hairs. No. 1,419,754; June 13.
- Piche, Hormidas. (See Gauthier, Ferdinand, assignor.)
- Pichel, Charles L., New York, N. Y. Aerated stove. No. 1,404,640; Jan. 24.
- Pick, Albert, & Company. (See Pick, Hugo, assignor.)
- Pick, Hugo, Winnetka, assignor to Albert Pick & Company, Chicago, Ill. Culinary strainer. No. 1,406,581; Feb. 14.
- Pickard, Harold. (See Beech, Alexander C., assignor.)
- Pickard, J. F. (See Harris, H. E., and Swain, assignors.)
- Pickard, Joseph, Holyoke, Mass. Vent plug. No. 1,431,034; Oct. 3.
- Pickard, Winford D., Norman, Okla. Glare guard for windshields for automobiles, etc. No. 1,424,939; Aug. 8.
- Pickard, Winford D., Norman, Okla. Rear-axle attachment for automobiles. No. 1,424,940; Aug. 8.
- Pickareck, Joseph H., assignor to Square D Company, Detroit, Mich. Electrical switch and interlocking casing. No. 1,412,488; Apr. 11.
- Pickelsimer, Otus, Greenville, S. C. Trousers creaser and former. No. 1,406,891; Feb. 14.
- Pickens, Julius A., Easley, S. C. Can for preserves. No. 1,428,705; Sept. 12.
- Pickering, Angelina E., near Viola, Iowa. Hencoop. No. 1,436,109; Nov. 21.
- Pickering, Edwin G., Dayton, Ohio. Combination ticket and identifying means. No. 1,429,098; Sept. 12.
- Pickering, John J., Piqua, Ohio. Water-weighing machine. No. 1,435,494; Nov. 14.
- Pickering, Orien B., Endicott, N. Y. Stamp. No. 1,422,474; July 11.
- Pickering, Theodore H., assignor to Josiah Anstice & Company, Inc., Rochester, N. Y. Vegetable peeler. No. 1,424,032; July 25.
- Pickert, L., Fish Company. (See Barry, James J., assignor.)
- Pickett, Aaron T., Detroit, Mich. Electric signal alarm. No. 1,425,279; Aug. 8.
- Pickett, George F. (See Jackson, P. T., and Pickett.)
- Pickett, George F., London, England. No. 1,406,220; Feb. 14.
- Pickop, George B., New Haven, assignor to The Malleable Iron Fittings Company, Branford, Conn. Cleaning device. No. 1,415,467; May 9.
- Pickston, William T. (See Brown, W. D. R., and Pickston.)
- Pickup, John R., and F. Seeley, Murray, Iowa. Fender brace structure. No. 1,409,401; Mar. 14.
- Pico, Albert P. F. (See White, Fred G., assignor.)
- Picradis, George. (See Anthose, Frank H., assignor.)
- Pictet, Amé, Geneva, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Manufacture of levoglucosane. No. 1,437,615; Dec. 5.
- Pidgeon, Thomas, Highland Park, Ky. Stop device for levers. No. 1,427,969; Sept. 5.
- Piechocki, John C., and E. K. Boinski, Buffalo, N. Y. Wrench. No. 1,437,774; Dec. 5.
- Piel, Carl J. (See Pihl, Carl J.)
- Piel, G., Company, The. (See Long, George F., assignor.)
- Piel, G., Company, The. (See MacMichael, Ross F., assignor.)
- Pieper, Alphonse F. (See Pieper, Oscar H., and A. F.)
- Pieper, E. E. (See Myers, Frederick W., assignor.)
- Pieper, Henri, Liege, Belgium. Mixed driving of vehicles. No. 1,402,250; Jan. 3.
- Pieper, Henri, Liege, Belgium. Air-pressure brake. No. 1,437,675; Dec. 5.
- Pieper, Nicolas, Liege, Belgium. Rifle. No. 1,416,234; May 16.
- Pieper, Nicolas, Liege, Belgium. Automatic pistol. No. 1,427,413; Aug. 29.
- Pieper, Oscar H. and A. F., Rochester, N. Y. Electrically-heated receptacle. No. 1,404,317; Jan. 24.
- Pieper, Oscar H. and A. F., Rochester, N. Y. Apparatus support. No. 1,434,793; Nov. 7.
- Pierce, Burt N., Boston, Mass. Carburetor. No. 1,403,706; Jan. 17.
- Pierce, Clarence A., Lowell, Mass. Bunch-building attachment for spinning frames. No. 1,427,697; Aug. 29.

Alphabetical list of patentees—Continued.

- Pierce, Claude E., Tacoma, Wash. Envelope. No. 1,402,650; Jan. 3.
- Pierce, Earle C. (See Randall, C. J., and Pierce.)
- Pierce, Edward, West Burlington, Iowa. Cut-off saw. No. 1,430,681; Oct. 3.
- Pierce, Frank M., Chicago, Ill. Guide pin for tire-unwrapping machines. No. 1,433,648; Oct. 31.
- Pierce, Franklin A., and B. W. Davidson, Steubenville, Ohio, assignors of one-fifth to J. G. Minkemyer, one-fifth to J. B. Minkemyer, and one-fifth to E. M. Bonnell, Wheeling, W. Va. Drop fender for vehicles. No. 1,434,840; Nov. 7.
- Pierce, Frederic E. (See Chase, M. F., and Pierce.)
- Pierce, George W., Anderson, Ind. Clutch-pedal-releasing device. No. 1,435,732; Nov. 14.
- Pierce Governor Company, The. (See Lakin, Harry R., assignor.)
- Pierce, Harold S., Indianapolis, Ind., assignor to Link-Belt Company, Chicago, Ill. Drive chain. No. 1,431,035; Oct. 3.
- Pierce, Harry, assignor of one-half to F. A. Briggs, Oakland, Calif. Automatic record-centering mechanism for player pianos. No. 1,403,625; Jan. 17.
- Pierce, Harry H., assignor to The Scoria Products Company, Indianapolis, Ind. Plastic composition. No. 1,404,162; Jan. 17.
- Pierce, James E., assignor to Union Steel Products Company, Ltd., Albion, Mich. Rod coupling. No. 1,408,530; Mar. 7.
- Pierce, John K., Fort Worth, Tex. Clutch mechanism. No. 1,426,213; Aug. 15.
- Pierce, Lonnie J., and W. Famariss, assignors to Window Glass Machine Company, Pittsburgh, Pa. Leer-operating mechanism. No. 1,431,682; Oct. 10.
- Pierce, Lucien, Malden, Mass. Machine for labeling cylindrical packages. No. 1,434,748; Nov. 7.
- Pierce, Paul, Chicago, Ill. Bead pressing and guide rolls for tire-wrapping machines. No. 1,402,792; Jan. 10.
- Pierce, Paul, Chicago, Ill. Wrapping machine. No. 1,432,034; Oct. 17.
- Pierce, Ralph E., Zion, Ill. Railway-crossing-gate signal. No. 1,426,839; Aug. 22.
- Pierce, Ralph E., Larchmont, N. Y., assignor to American Telephone and Telegraph Company. Ciphering device. No. 1,426,669; Aug. 22.
- Pierce, Ralph H., and G. A. Anderson, Eugene, Oreg. Demountable rim. No. 1,416,505; May 16.
- Pierce, Robert C., Tallmadge, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Grommet-winding machine. No. 1,415,696; May 9.
- Pierce, Robert C., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Driving and stopping mechanism. No. 1,420,744; June 27.
- Pierce, Warner K. (See Broadwater, David B., assignor.)
- Pierce, William B., Chicago, Ill. Shuttle for wrapping machines. No. 1,432,894; Oct. 24.
- Pierce, William L., New York, N. Y. Friction-clutch mechanism. No. 1,420,214; June 20.
- Pierce, Winslow S., Jr., Bayville, N. Y. Gearing. No. 1,418,461; June 6.
- Pierce Wrapping Machine Company. (See Grout, Martin B., assignor.)
- Pierini, Humbert, assignor to R. B. McMahon, Greenville, Miss. Trap. No. 1,420,384; June 20.
- Piernikowski, Wladyslaw, and S. Grudzinski, Philadelphia, Pa. Spring wheel. No. 1,423,733; July 25.
- Pierpoint, Jessie, Yonkers, N. Y. Ball-bearing rail. No. 1,404,641; Jan. 24.
- Piersen, Edwin H., Topeka, Kans. Circuit making and breaking device. No. 1,416,973; May 23.
- Piersen Manufacturing Co., The. (See Caps, Arthur W., assignor.)
- Piersen Manufacturing Company, The. (See Cushman, Everett B., assignor.)
- Piersen Manufacturing Company, The. (See Schank, Harry E., assignor.)
- Pierston, A. N. (See Shepard, Wilbur L., assignor.)
- Pierston, Charles A., Sharon, Pa. Concrete railway tie. No. 1,406,074; Feb. 7.
- Pierston, Edwin W., Newark, N. J., assignor to Intertype Corporation, Brooklyn, N. Y. Automatic cut-off for typographical machines. No. 1,406,075; Feb. 7.
- Pierston, William A., Saratoga Springs, N. Y. Machine for marking articles. No. 1,425,280; Aug. 8.
- Pieser, Jackson G., A. L. Quast and J. C. Quast, Chicago, Ill.; said A. L. Quast and said J. C. Quast assignors to said Pieser. Automatic weighing machine. No. 1,428,253; Sept. 5.
- Pieters, Julien, Paris, France. Discharging device for vertical retorts. No. 1,412,627; Apr. 11.
- Pieters, Julien, Paris, France. Apparatus for discharging vertical retorts. No. 1,412,628; Apr. 11.
- Pieters, Julien, Paris, France. Arrangement for evolving distillation gases in vertical retorts. No. 1,412,629; Apr. 11.
- Pietrafesa, Joseph, Syracuse, assignor of one-third to L. Albert and one-third to M. Friedman, New York, N. Y. Lining. No. 1,433,565; Oct. 31.
- Pietszak, Stanley P., Buffalo, N. Y. Spark plug. No. 1,416,868; May 23.
- Piette, Olivier, Brussels, Belgium, assignor, by mesne assignments, to Belgian American Coke Ovens Corporation, Wilmington, Del. Coke-oven wall. No. 1,429,252; Sept. 19.
- Pietzschke, Edward W., Redondo Beach, Calif. Mechanism for turning pump rods and the like. No. 1,417,858; May 30.
- Pietzuch, Joseph, Cincinnati, Ohio. Innersole for boots and shoes. No. 1,427,547; Aug. 29.
- Pifer, John H., Larimore, N. Dak. Drive for steerable tractor wheels. No. 1,421,024; June 27.
- Pigeon, Albert M., Norristown, Pa. Yarn-tension device. No. 1,435,495; Nov. 14.
- Pigeon, Albert M., Norristown, Pa. Pressing and sustaining means for spring-beard needles. No. 1,403,105; Jan. 10.
- Pigeon, Ernest A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Testing machine for dielectric objects. No. 1,407,887; Feb. 28.
- Pigg, Edward E., Weatherford, Okla. Double-action pump. No. 1,417,105; May 23.
- Piggins, Charles R., and W. C. Hanson, Racine, Wis. Carburetor heater. No. 1,413,681; Apr. 25.
- Piggly Wiggly Corporation. (See Saunders, Clarence, assignor.)
- Pignani, Frank. (See Pignani, Lawrence and F.)
- Pignani, Frank. (See Pignani, Lorenzo and F.)
- Pignani, Lawrence and F., Blairsville, Pa. Hoist. No. 1,425,792; Aug. 15.
- Pignani, Lorenzo and F., Dilltown, Pa. Car coupling. No. 1,403,193; Jan. 10.
- Pihl, Carl J. (now by judicial change of name C. J. Piel), Boston, Mass. Thread-cutting die. No. 1,416,059; May 16.
- Pihl, Carl J. (now by judicial change of name C. J. Piel), Boston, Mass. Friction device. No. 1,420,281; June 20.
- Pike, Charles, Brooklyn, N. Y. Lock. No. 1,420,215; June 20.
- Pike, Charles, Brooklyn, N. Y. Safety lock. No. 1,437,992; Dec. 5.
- Pike, Clinton B., Birmingham, Ala., assignor, by mesne assignments, to James Thompson & Co., New York, N. Y. Canopy-frame bracket. No. 1,416,414; May 16.
- Pilcher, John A., Roanoke, Va. Railway car and truck construction. No. 1,406,076; Feb. 7.
- Pilcher, John A., Roanoke, Va. Railway car. No. 1,433,096; Oct. 24.
- Pilcher, John A., Roanoke, Va. Car-door arrangement. No. 1,434,145; Oct. 31.
- Pilcher, John A., Roanoke, Va. Car construction. No. 1,437,441; Dec. 5.
- Pilcher, Thomas D., Washington, D. C. Water heater. No. 1,438,259; Dec. 12.
- Pilcher, Thomas D., Washington, D. C. Water heater. No. 1,438,260; Dec. 12.
- Pilkington, Alfred C., Rainhill, and J. Gaskell, St. Helens, assignors to Pilkington Brothers Limited, St. Helens, Lancaster, England. Apparatus for gathering glass from a molten mass. No. 1,417,684; May 30.
- Pilkington Brothers Limited. (See Pilkington, A. C., and Gaskell, assignors.)
- Pilkington Brothers Limited. (See Slocombe, Frank E., assignor.)
- Pilkington Brothers Limited. (See Waldron, Frederic B., assignor.)
- Pilling, Henry, Chorlton-cum-Hardy, England. Cylinders of uniflow steam engines. No. 1,415,697; May 9.
- Pilliod, Charles J., assignor to D. Searies, trustee, Toledo, Ohio. Engine valve. No. 1,414,152; Apr. 25.
- Pilliod, Charles J., assignor to D. Searies, trustee, Toledo, Ohio. Valve gear. No. 1,427,840; Sept. 5.
- Pilliod, Charles J., assignor to D. Searies, trustee, Toledo, Ohio. Valve gear. No. 1,427,841; Sept. 5.
- Pillion, Louis, Dijon, France. Electric clock. No. 1,429,693; Sept. 19.
- Pillow, John R., Butler, assignor to A. B. Collner, Clarion, Pa. Traveling automobile turntable. No. 1,428,977; Sept. 12.
- Pilsbry-Becker Engineering & Supply Company. (See McGinnis, Walter R., assignor.)
- Pim, Arthur E., Buffalo, N. Y. Device for use in picking fruit. No. 1,404,163; Jan. 17.
- Pimienta, Alfredo, New York, N. Y. Denture and application. No. 1,417,345; May 23.
- Pinanski, Samuel, Boston, Mass. Projection-screen lighting. No. 1,437,442; Dec. 5.
- Pindek, Barney, et al. (See Erik, Emil, assignor.)
- Pindek, Isador, et al. (See Erik, Emil, assignor.)
- Pinder, Rudolph, Medford, Mass. Reversible clutch. No. 1,427,168; Aug. 29.
- Pinder, Thomas F., Ardmore, Pa., assignor, by mesne assignments, to C. C. Orcutt. Drying machine. No. 1,432,729; Oct. 17.
- Pindstoffe, Anders A., Frederiksberg, near Copenhagen, Denmark. Carbonator. No. 1,405,323; Jan. 31.
- Pinkney, David H., Elyria, Ohio, assignor to National Tube Company, Pittsburgh, Pa. Pipe-sawing apparatus. No. 1,407,439; Feb. 21.
- Pinnavaja, Raffaele, Buffalo, N. Y. Attachment for adjusting the pitch of wind musical instruments. No. 1,415,051; May 9.
- Pinney, George H., South Manchester, assignor to The Williams Brothers Manufacturing Company, Glastonbury, Conn. Plating. No. 1,426,769; Aug. 22.
- Pinney, Wallace E., and T. Donahue, Providence, R. I. Shade and curtain hanger. No. 1,437,354; Nov. 28.
- Pinnock-Bailey, Dr. Vivian. (See Hollis, William H., assignor.)

Alphabetical list of patentees—Continued.

- Pinson, Auguste E., Outremont, Quebec, Canada. Scrubbing glove. No. 1,403,817; Jan. 17.
- Pinsuti, Giuseppe F., New York, N. Y. Machine for grinding glass bottle stoppers. No. 1,411,511; Apr. 4.
- Pinto, Joseph. (See Pinto, Vincent and J.)
- Pinto, Ralph, Oakland, Calif. Bolt. No. 1,403,813; Jan. 17.
- Pinto, Vincent and J., Philadelphia, Pa. Speaking clock. No. 1,424,516; Aug. 1.
- Pioch, Frank J., San Francisco, Calif. Gas burner. No. 1,409,465; Mar. 14.
- Pioneer Chemical Company. (See Milson, John R., assignor.)
- Pioneer Manufacturing Company. (See Johnson, Walter A., assignor.)
- Pioneer Manufacturing Company, The. (See Leatherman, Charles H., assignor.)
- Pioneer Suspender Company. (See Croasdale, Olney, assignor.)
- Pipe, George W., St. Paul, Minn. Railway wheel clamp. No. 1,402,793; Jan. 10.
- Pipe Machinery Company, The. (See Barber, Albert J., assignor.)
- Piper, Eliza C., et al. (See Piper, Herbert H., assignor.)
- Piper, Frank R., Fairfax, Ala. Roller. No. 1,416,748; May 23.
- Piper, Herbert H., Jackson, Mo., assignor of one-half to E. C. Piper, Jackson, and one-half to J. A. Withers, Cape Girardeau, Mo. Cultivator. No. 1,418,164; May 30.
- Piper, Hiram L., Montreal, Quebec, Canada. Curtain window. No. 1,437,011; Nov. 28.
- Piper, Joseph R., and W. R. Shrecker, Worden, Ill. Piston. No. 1,411,512; Apr. 4.
- Piper, Louis R., Chicago, Ill. Transfer-slip-holder device. No. 1,433,970; Oct. 31.
- Piper, Ralph S., Chicago, Ill. Coupling transformer for radio systems. No. 1,438,854; Dec. 12.
- Piper, Walter F. (See Beardsley, E. O., and Piper.) (Re-issue.)
- Pipes, Joseph, Gueydan, La. Combined churn and clothes washer. No. 1,435,976; Nov. 21.
- Pippen, Howard L., Los Angeles, Calif. Cycle lock. No. 1,402,725; Jan. 3.
- Pippin, Clyde A., Chicago, assignor, by mesne assignments, to Camo Cart Company, Clinton, Ill. Folding gocart. No. 1,409,812; Mar. 14.
- Pippinger, Edwin B., Kansas City, Mo. Oil-gas burner. No. 1,434,263; Oct. 31.
- Pippy, George H. (See Anderton, Robert C., assignor.)
- Piqué, Jean J. (See Hardy, W. B., and Piqué.)
- Piqué, Jean J., Hampstead, London, England. Cooling and freezing of fish and the like. No. 1,431,328; Oct. 10.
- Piquerez, Emile, St.-Ursanne, Switzerland, assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill. Lubricator. (Reissue.) No. 1,550,3; Dec. 5.
- Pira, Jean, Ougree-les-Liege, Belgium. Tie plate for metal railway ties. No. 1,405,628; Feb. 7.
- Pirdun, Lewis, Sand Springs, Okla. Heating system. No. 1,438,056; Dec. 5.
- Pirkenson, Richard. (See Sprengnether, William F., assignor.)
- Pirwitz, Friedrich A. G. (See Wallensack, A., and Pirwitz.)
- Pirwitz, Friedrich A. G., Rochester, N. Y. Gauging and measuring instrument. No. 1,424,941; Aug. 8.
- Piscicelli, Roberto T., Paris, France. Calculating machine. No. 1,416,974; May 23.
- Piscitelli, Edward J., Philadelphia, Pa. Exercising apparatus. No. 1,402,179; Jan. 3.
- Pistorio, Domingo A., Washington, D. C. Fuse for projectiles. No. 1,438,328; Dec. 12.
- Pisula, Michal, Chicago, Ill. Window sash. No. 1,407,573; Feb. 21.
- Pitho Plastic Board Company. (See Lockhart, James A., assignor.)
- Pitkin, Arthur F., Schenectady, N. Y. Articulated stay bolt. No. 1,430,321; Sept. 26.
- Pitkin, Arthur F., Schenectady, N. Y. Stay bolt for steam boilers. No. 1,432,085; Oct. 17.
- Pitkin, Arthur F., Schenectady, N. Y. Sheet connection for steam-boiler stay bolts. No. 1,435,733; Nov. 14.
- Pitkin, William, London, England. Wind screen for motor cars. No. 1,427,630; Aug. 29.
- Pitman, Henry L., Elizabeth, N. J. Method and apparatus for making spring motors. No. 1,436,678; Nov. 28.
- Pitman, Henry L., Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,417,106; May 23.
- Pitman, Henry L., Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,417,685; May 30.
- Pitman, Henry M., Dallas, Tex. Nutcracker. No. 1,437,860; Dec. 5.
- Pitney-Bowes Export Corporation. (See Wheeler, Walter H., assignor.)
- Pitonl, Guido, Rochester, N. Y. Needle. No. 1,415,698; May 9.
- Pitrus, József, Chicopee Falls, Mass. Steel-cutting machine. No. 1,425,894; Aug. 15.
- Pitsanis, Thomas, Ambridge, Pa. Fuel economizer. No. 1,439,575; Dec. 19.
- Pitt, Frederick D., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo. Book-cover-attaching means. No. 1,423,017; July 18.
- Pitt, Frederick D., and G. W. Newman, assignors to Irving-Pitt Manufacturing Company, Kansas City, Mo. Temporary binder. No. 1,423,015; July 18.
- Pitt, William A., Montreal, Quebec, Canada. Sprayer. No. 1,411,513; Apr. 4.
- Pitt, William P., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo. Binder. No. 1,423,016; July 18.
- Pitt, William P., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo. Cover-attaching means for books. No. 1,423,018; July 18.
- Pitt-Taylor, Francis S., Blackpool, England. Concertina keyboard. No. 1,417,107; May 23.
- Pittelkow, Albert L., St. Paul, Minn. Attachment for sewing-machine tables. No. 1,435,473; Oct. 24.
- Pittenger, Charles E., assignor of one-half to B. Goodger, Falls City, Nebr. Grease retainer. No. 1,437,381; Nov. 28.
- Pittenger, Paul S., assignor to H. K. Mulford Company, Philadelphia, Pa. Medicinal package. No. 1,438,057; Dec. 5.
- Pitter, Walter C., Eltham, England. Means for cutting screw gauges. No. 1,433,844; Oct. 31.
- Pittinger, Harry C., Oakland, Calif. Scrubbing device. No. 1,421,302; June 27.
- Pittman, Carl L., De Leon, Texas. Safety attachment for railway-car trucks. No. 1,418,827; June 6.
- Pittman, Carl L., assignor to The Pittman Company, De Leon, Tex. Safety appliance for railway-car trucks. No. 1,426,096; Aug. 15.
- Pittman Company, The. (See Pittman, Carl L., assignor.)
- Pittman, Joseph, Detroit, Mich. Automatic discharge valve. No. 1,416,869; May 23.
- Pittman, Reinhart W., New York, N. Y. Film feed for motion-picture machines. No. 1,403,106; Jan. 10.
- Pittman, Reinhart W., New York, N. Y. Motion-picture apparatus magazine. No. 1,403,522; Jan. 17.
- Pittman, Reinhart W., New York, N. Y. Dissolving shutter for motion-picture apparatus. No. 1,404,404; Jan. 24.
- Pittman, Reinhart W., New York, N. Y. Motion-picture apparatus. No. 1,413,610; Apr. 25.
- Pittman, Reinhart W., New York, N. Y. Vest-pocket-film camera. No. 1,430,582; Oct. 3.
- Pittoni, Angelo, Lynbrook, assignor to Manhattan-Rome Company, branch of Rome Metallic Bedstead Co., Long Island City, N. Y. Hammock stand. No. 1,434,841; Nov. 7.
- Pittoni, Louis E. (See Sishower, G. F., and Pittoni.)
- Pitts, Edmund M., Philadelphia, Pa. Display device. No. 1,428,058; Sept. 5.
- Pitts, Garnet A. (See Pitts, James H., assignor.)
- Pitts, James H., assignor to G. A. Pitts, McKeesport, Pa. Sales book. No. 1,440,240; Dec. 26.
- Pitts, William C., and R. H. Haines, Memphis, Tenn. Cotton sampler. No. 1,428,978; Sept. 12.
- Pittsburgh Can Company. (See Cooke, James N., assignor.)
- Pittsburgh Engineering Works. (See Hanff, Edward A., assignor.)
- Pittsburgh Gage & Supply Company. (See Higgins, Martin G., assignor.)
- Pittsburgh Gear & Machine Company. (See O'Brien, Joseph C., assignor.)
- Pittsburgh Lamp, Brass & Glass Company. (See Ashe, Frank C., assignor.)
- Pittsburgh Oil Refining Corporation. (See Boileau, Walter K., assignor.)
- Pittsburgh Plate Glass Company. (See Brown, Christopher, assignor.)
- Pittsburgh Plate Glass Company. (See Dickey, Cromwell B., assignor.)
- Pittsburgh Plate Glass Company. (See Taylor, William H., assignor.)
- Pittsburgh Plate Glass Company. (See White, Robert W., assignor.)
- Pittsburgh Transformer Company. (See Bingay, Robert V., assignor.)
- Pittsburgh Transformer Company. (See Horelick, Samuel, assignor.)
- Pittsburgh Transformer Company. (See McClintock, Lewis G., assignor.)
- Pitz, Adolph G., and O. X. Sauer, assignors to Park City Cornice Works, Inc., Bridgeport, Conn. Skylight lift. No. 1,423,817; July 25.
- Pitz, Adolph G., and O. X. Saur, assignors to Park City Cornice Works, Incorporated, Bridgeport, Conn. Skylight lift. No. 1,432,357; Oct. 17.
- Pivar, George, assignor to Frankenthaler & Frankenthaler, New York, N. Y. Display cabinet. No. 1,428,857; Sept. 12.
- Piwczynski, Edward F. (See Willson, O., and Piwczynski.)
- Pixley, Henry L., Cleveland, Ohio. Inner tube for tires. No. 1,431,596; Oct. 10.
- Pixley, Leland F., Afton, N. Y. Ice conveyer. No. 1,423,732; July 25.

Alphabetical list of patentees—Continued.

- Place, Claude W., La Grange, Ill., assignor to General Electric Company. System of electrical distribution. No. 1,420,383; June 20.
- Place, Joseph R., Detroit, Mich. Tire. No. 1,409,771; Mar. 14.
- Place, Josiah W., Orange, N. J., assignor to United States Gauge Company, New York, N. Y. Pressure gauge. No. 1,414,153; Apr. 25.
- Place, Josiah W., Orange, N. J., assignor to United States Gauge Company, New York, N. Y. Pressure gauge. No. 1,414,154; Apr. 25.
- Placek, Antonin. (See Vlček, F. J., and Placek.)
- Plackard, Charles F., Summitville, Ind. Bed construction. No. 1,419,586; June 13.
- Plaisted, Harold M., (See Williams, Milton F., assignor.)
- Plaisted, Harold M., assignor of forty-nine one-hundredths to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Rotary pivoted hammer. No. 1,413,611; Apr. 25.
- Plaisted, Harold M., assignor of forty-nine one-hundredths to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Fine grinder. No. 1,418,735; June 6.
- Plaisted, Harold M., St. Louis, Mo., assignor of forty-nine one-hundredths to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Crusher and pulverizer. No. 1,427,842; Sept. 5.
- Plaisted, Harold M., assignor of forty-nine one-hundredths to M. F. Williams, St. Louis, Mo. Flanged pulley. No. 1,430,752; Oct. 3.
- Plaisted, Harold M., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Crusher and pulverizer. No. 1,439,754; Dec. 26.
- Plamondon, Arthur L., Boston, Mass. Thread-pull-off device for buttonhole machines. No. 1,420,745; June 27.
- Plamondon, Ernest. (See Everall, J. A., Plamondon, and Plourde.)
- Planche, Jean, Paris, France. Hydraulic motor. No. 1,413,188; Apr. 18.
- Plant, Eugene A., Porth, Glamorgan, Wales. Stud for footwear. No. 1,433,411; Oct. 24.
- Plant, Frederick L., Toronto, Ontario, Canada. Golf club. No. 1,409,966; Mar. 21.
- Plant, Leland G., Chicago, Ill. Feed-water superheater for locomotives. No. 1,435,496; Nov. 14.
- Planters Stemming Company. (See Morris, John O., assignor.)
- Plantinga, Pierre, Cleveland, Ohio. Oven-wall structure. No. 1,430,027; Sept. 26.
- Plass, Robert H., Upper Montclair, N. J. Spring wheel. No. 1,411,375; Apr. 4.
- Plastoid Products, Incorporated. (See Glaze, Herbert L., assignor.)
- Plastoid Products, Inc. (See Routt, O. L., McConnell, and Glaze, assignors.)
- Plath, Theodore C., assignor of one-half to W. R. Litzenberg and one-half to F. J. Catterlin, Los Angeles, Calif. Electric iron. No. 1,413,057; Apr. 18.
- Platt, Clarence D., Bridgeport, Conn. Rotary snap switch. No. 1,402,888; Jan. 10.
- Platt, Clarence D., Bridgeport, Conn. Inclosed-switch construction. No. 1,439,119; Dec. 19.
- Platt, Haviland H., New York, N. Y. Method and apparatus for converting motion. No. 1,414,895; May 2.
- Platt, James R., Hartford, Ark. Mechanic's rule and pencil holder. No. 1,423,359; July 18.
- Platt, Leo, New York, N. Y. Garter and making same. No. 1,410,533; Mar. 21.
- Platt, Thomas M., assignor to Southwark Foundry & Machine Company, Philadelphia, Pa. Plate-bending rolls. No. 1,438,058; Dec. 5.
- Platte, Albert L., Clinton, Ill. Sled. No. 1,408,029; Feb. 23.
- Platz, Henry T., assignor to C. M. Hall Lamp Co., Detroit, Mich. Tiltable reflector. No. 1,416,749; May 23.
- Plauson, Hermann, Hamburg, Germany. Manufacture of hexamethylene tetramine. No. 1,408,826; Mar. 7.
- Plauson, Hermann, Hamburg, Germany. Manufacture of rubber-like substances. No. 1,415,468; May 9.
- Plauson, Hermann, Hamburg, Germany. Improving the odor, taste, and digestibility of raw yeast for the purpose of employing it as edible yeast. No. 1,415,469; May 9.
- Plauson, Hermann, Hamburg, Germany. Manufacture of vinyl halides. No. 1,425,180; Aug. 8.
- Plauson, Hermann, Hamburg, Germany. Reclaiming rubber. No. 1,432,895; Oct. 24.
- Plauson, Hermann, Hamburg, Germany. Manufacture of a phosphatic manure. No. 1,434,749; Nov. 7.
- Plauson, Hermann, Hamburg, Germany. Manufacture of alkyl ethers of vinyl alcohols and homologues thereof. No. 1,436,288; Nov. 21.
- Plauson, Hermann, Hamburg, Germany. Process and apparatus for extraction of carbonaceous substances or hydrocarbons. No. 1,436,289; Nov. 21.
- Plauson, Hermann, Hamburg, Germany. Manufacture of diolefins and polymerization products. No. 1,436,819; Nov. 28.
- Plauson, Hermann, Hamburg, Germany. Manufacture of paintable compositions. No. 1,436,820; Nov. 28.
- Plauson, Hermann, Hamburg, Germany. Extraction of fusible combustibles such as Montan wax. No. 1,437,775; Dec. 5.
- Plaut, L., & Co. (See Motschenbacher, August, assignor.)
- Plaut, Menko, assignor to Firm of August Knoche-Wallwitz, G. m. b. H. Halberstadt, Germany. Insulating case for seed-breeding and infection purposes. No. 1,416,575; May 16.
- Playle, Fred O., Davenport, Iowa. Reel. No. 1,433,412; Oct. 24.
- Pleace, Richard J. (See Doulton, H. L., Corby, and Pleace.)
- Pledger, Thomas C. (See Broadway, W., and Pledger.)
- Pleines, Henry T., Cleveland, assignor to The Lakewood Engineering Company, Lakewood, Ohio. Industrial truck. No. 1,432,299; Oct. 17.
- Pleis, George W., jr. (See Pleis, George W., sr., and G. W. jr.)
- Pleis, George W., sr., and G. W. jr., Philadelphia, Pa. Secondary battery. No. 1,427,970; Sept. 5.
- Pleister, Henry W., Westfield, assignor, by mesne assignments, to H. B. Newhall, Plainfield, N. J. Expansion shield. No. 1,417,197; May 23.
- Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, Bolt anchor. No. 1,429,298; Sept. 19.
- Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, Bolt anchor. No. 1,429,299; Sept. 19.
- Pleister, Henry W., Westfield, assignor, by mesne assignments, to H. B. Newhall, Plainfield, N. J. Forming an aerial conduit, an aerial conduit, and aerial cable ring. No. 1,438,329; Dec. 12.
- Pleister, Henry W., Westfield, and J. Karitzky, Garwood, assignors, by mesne assignments, to H. B. Newhall, Plainfield, N. J. Expansion bolt. No. 1,417,198; May 23.
- Plenter, Joseph, Flint, Mich. Scraper. No. 1,411,980; Apr. 4.
- Plesece, Steve, San Francisco, Calif. Combination chair. No. 1,428,804; Sept. 12.
- Pletcher, George E., Perrytown, Tex. Topping machine. No. 1,413,774; Apr. 25.
- Pletscher, Fritz, Lucerne, Switzerland. Rear brake for motor and other cycles. No. 1,421,552; July 4.
- Pletscher, Otto, Albisrieden, Switzerland. Electric pocket lamp. No. 1,403,107; Jan. 10.
- Plew, James E., Chicago, Ill. Step-by-step-movement controller. No. 1,436,821; Nov. 28.
- Plimpton, Bentley A., assignor of one-half to The Porcelain Insulator Corporation, Lima, N. Y. Strain clamp for electrical conductors. No. 1,407,477; Feb. 21.
- Ploch, Robert, Dresden, Germany. Holding device. No. 1,412,019; Apr. 4.
- Plochocki, Antony, assignor to himself and A. Weisman, Brooklyn, N. Y. Soldering iron. No. 1,429,626; Sept. 19.
- Plonka, John, Woodlawn, Pa. Conveyer for sheet material. No. 1,432,086; Oct. 17.
- Ploof, Henry C. (See Maull, Edward N., assignor.)
- Plost, Isaac, assignor of one-half to T. R. Harris, University City, Mo. Rail tie. No. 1,419,643; June 13.
- Plough, Alfred A., assignor to Plough Chemical Company, Memphis, Tenn. Comb. No. 1,433,413; Oct. 24.
- Plough Chemical Company. (See Plough, Alfred A., as signor.)
- Plourde, Ubald. (See Everall, J. A., Plamondon, and Plourde.)
- Plowman, Walter W. (See Feldenheimer, William, assignor.)
- Pluemacher, Reinhard, Sunbury, Pa., assignor to Susquehanna Silk Mills, New York, N. Y. Self-threading slub catcher for automatic shuttles. No. 1,439,442; Dec. 19.
- Plum, John, Bridgeport, Conn. Tire armor. No. 1,404,642; Jan. 24.
- Plumb, Fayette R., Philadelphia, Pa. Method and means for securing wooden handles. No. 1,426,316; Aug. 15.
- Plumb, Herbert F., Drumheller, Alberta, Canada. Call annunciator. No. 1,418,969; June 6.
- Plume & Atwood Mfg. Co., The. (See Boomer, George A., assignor.)
- Plumlee, Denton E., and A. E. Gruber, Sego, Utah. Stamp-affixing machine. No. 1,405,324; Jan. 31.
- Plummer, Charles T. (See Baldwin, W. H., and Plummer.)
- Plummer, Clarence H., Kewaunee, Wis. Shelling peas. No. 1,415,896; May 16.
- Plummer, Frederick A., Minneapolis, Minn., assignor of one-half to A. D. Gray, Chicago, Ill. Process and apparatus for acting upon milk. No. 1,430,403; Sept. 26.
- Plump, Adolph, Redwood City, Calif. Railway spike. No. 1,409,403; Mar. 14.
- Plym, Francis J., Niles, Mich. Window construction. No. 1,432,896; Oct. 24.
- Pneumatic Cushion Co. (See Gruss, Lucien R., assignor.)
- Pneumatic Process Flotation Company. (See Towne, R. S., and Flinn, assignors.)
- Pneumercator Company. (See Parks, Harry S., assignor.)
- Pneumercator Company. (See Stancliffe, Cecil W., as signor.)
- Pocius, Raphael, Phoenixville, Pa. Manufacture of phenol and the like. No. 1,430,184; Sept. 26.
- Pocock, Frank, Salt Lake City, Utah. Beet topper. No. 1,439,187; Dec. 19.

Alphabetical list of patentees—Continued.

- Podhajny, Dmytro, Algoma, assignor of one-half to O Roth, Northfork, W. Va. Dough mixer. No. 1,432,358; Oct. 17.
- Podolsky, Boris. (See Sharron, Samuel P., assignor.)
- Podolsky, Henry, San Francisco, Calif. Tailor's work holder. No. 1,404,478; Jan. 24.
- Podolsky, Henry, San Francisco, Calif. Trap for fish. No. 1,427,321; Aug. 29.
- Poe, Charles E. (See Standley, M. G., and Poe.)
- Poe, Robert L., Chicago, assignor to Ardella C. Dilbone, Cook County, Ill. Cooking range. No. 1,407,768; Feb. 28.
- Poetzsch, Max, Ridgewood, N. J. Trimming-machine attachment. No. 1,433,474; Oct. 24.
- Pogue, Joseph L., Omak, Wash. Box-press stamp. No. 1,427,843; Sept. 5.
- Pogue, Webster V., Mount Vernon, N. Y. Compass scale. No. 1,423,019; July 18.
- Pohl, Adolph. (See Schulze, Louis H., assignor.)
- Pohl, Albert H., Berton, Manitoba, Canada. Grass and thistle digger. No. 1,430,583; Oct. 3.
- Pohl, Charles, Los Angeles, Calif. Gun sight. No. 1,421,553; July 4.
- Pohl, Charles, Los Angeles, Calif. Auxiliary inlet device for internal-combustion engines. No. 1,421,554; July 4.
- Pohl, Charles, assignor to J. O. King, Los Angeles, Calif. Automobile lock. No. 1,402,955; Jan. 10.
- Pohlmann, Hans, Wandsbek, and P. Frank, Hamburg, Germany. Construction of buildings and parts of the same which are heat and cold insulating. No. 1,436,193; Nov. 21.
- Poindexter, Robert W., assignor to N. Goodwin, Los Angeles, Calif. Producing finely-divided carbon. No. 1,402,957; Jan. 10.
- Pointon, John E. (See Keith, G., and Pointon.)
- Poirier, Alphonse, assignor to A. J. Cox, Spokane, Wash. Signal apparatus. No. 1,439,576; Dec. 19.
- Pokorny, Anton, Wyndmere, N. Dak. Rail tie and fastener. No. 1,406,305; Feb. 28.
- Pokorny, Frank, jr. (See Donovan, A. J., and Pokorny, jr.) (Reissue.)
- Pokorny, James T., Cedar Bayou, assignor of one-half to A. T. Eddington, Port Arthur, Tex. Molding machine. No. 1,423,020; July 18.
- Pokorny, James T., Cedar Bayou, assignor of one-half to A. T. Eddington, Port Arthur, Tex. Waterproofing tile and the like. No. 1,432,120; Oct. 17.
- Pokrzywa, Wacław, J. Matyga, and S. Lewandowski, Milwaukee, Wis. Safety crank for engines. No. 1,434,842; Nov. 7.
- Polak, Eduard, Groningen, Netherlands. Making pudding compositions. No. 1,426,006; Aug. 15.
- Polan, Joseph C. (See Nelson, L. C., and Polan.) (Reissue.)
- Polanek, Otto, Chicago, Ill. Blank label for book covers and applying same. No. 1,436,403; Nov. 21.
- Polansky, Arpad, Douglastown, N. Y. Combination carpet and window cleaner. No. 1,412,420; Apr. 11.
- Polaski, Henry P., and V. A. Van Horn, Big Rapids, Mich. Tractor drive gear. No. 1,405,159; Jan. 31.
- Pole and Tube Works, Inc., The. (See Schwarz, G. H., and Vintscher, assignors.)
- Poleski, John, and J. Jurcak, St. Catharines, Ontario, Canada. Depth-cutting gauge attachment for saws. No. 1,436,905; Nov. 28.
- Polhamus, Loren G., Chula Vista, Calif., dedicated, by mesne assignments, to the people of the United States. Defining cotton seed. No. 1,425,688; Aug. 15.
- Polhemus, Josiah W. (See Beaumont, H., and Polhemus.)
- Polhemus, Louis E., Miami, Ariz. Acetylene-lamp burner tip. No. 1,403,915; Jan. 17.
- Polhemus, Louis E., Miami, Ariz. Key ring and holder. No. 1,419,408; June 13.
- Polhemus, Louis E., Miami, Ariz. Key ring. No. 1,427,016; Aug. 22.
- Poliakoff, Rouvime, New York, N. Y. Lead-cable-covering press. No. 1,427,698; Aug. 29.
- Polidoro, Dominick. (See Ciotola, J., and Polidoro.)
- Polinkowsky, Lipa, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,406,221; Feb. 14.
- Polinkowsky, Lipa, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone system. No. 1,412,572; Apr. 11.
- Polinkowsky, Lipa, Antwerp, Belgium, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone switching apparatus. No. 1,433,298; Oct. 24.
- Polinkowsky, Lipa, assignor to Western Electric Company, Inc., New York, N. Y. Telephone-exchange system. No. 1,435,333; Nov. 14.
- Politowski, Peter P., Chicago, Ill. Electric cell. No. 1,402,956; Jan. 10.
- Politz, Thomas G. (See Fuller, Henry M., assignor.)
- Polyka, Joseph, Brooklyn, N. Y. Theft preventer. No. 1,414,666; May 2.
- Polk-Genung-Polk Co. (See Polk, Walter C., assignor.)
- Polk-Hueber Company. (See Hueber, Henry, assignor.)
- Polk, Ralph B., Greenwood, Ind. Tool for sectionalizing citrus fruits. No. 1,420,341; June 20.
- Polk, Thomas B. (See Hueber, Henry, assignor.)
- Polk, Walter C., Chicago, Ill., assignor to Polk-Genung-Polk Co., Fort Branch, Ind. Concrete-construction apparatus. No. 1,438,784; Dec. 12.
- Pollack, Joseph O., Chicago, Ill. Ring stretcher. No. 1,432,783; Oct. 24.
- Pollack, Oscar M., Oakland, Calif. Fastening attachment for garments. No. 1,440,241; Dec. 26.
- Pollak, Abraham, New York, N. Y. Initialed buckle, plate, and the like. No. 1,430,682; Oct. 3.
- Pollak, Abraham, New York, N. Y. Initialed buckle plate and the like. No. 1,438,550; Dec. 12.
- Pollak, Fritz, Vienna, Austria. Distilling process. No. 1,422,475; July 11.
- Pollard-Ailing Manufacturing Company. (See De Minico, Frank, assignor.)
- Pollard, Arthur L., assignor to Massey-Harris Harvester Co., Inc., Batavia, N. Y. Tractor harrow. No. 1,409,569; Mar. 14.
- Pollard, Earle R., Los Angeles, Calif. Sadiron. No. 1,431,419; Oct. 10.
- Pollard, Gurdon T., Denver, Colo. Rotary drilling machinery. No. 1,426,670; Aug. 22.
- Pollard, Gurdon T., and O. H. Johnson, assignors to The Mine & Smelter Supply Company, Denver, Colo. Drum feeder. No. 1,422,618; July 11.
- Pollard, John D., Chicago, Ill. Stethoscope. No. 1,410,034; Mar. 21.
- Pollard, Thomas J., Cranston, and L. S. Darling, Providence, R. I. Pin joint. No. 1,404,218; Jan. 24.
- Polley, William J., Haines, Oreg. Automobile lamp-mounting means. No. 1,437,355; Nov. 28.
- Pollinger, Isidor N., Brockton, Mass. Hose supporter. No. 1,407,082; Feb. 21.
- Pollitt, Frederick T. (See Willows, R. S., Pollitt, and Leach.)
- Pollitzer, Franz. (See Wucherer, R., and Pollitzer.)
- Pollman, Frederick W., Jr. (See Armstrong, Robert F., assignor.)
- Pollock, John L., Freeport, assignor of one-third to A. J. Head, Sterling, Ill., and one-third to T. G. Stewart, Highland Park, Mich. Latch. No. 1,415,192; May 9.
- Pollock, Samuel W., assignor to Max Raden, New York, N. Y. Cigar or cigarette holder. No. 1,410,954; Mar. 28.
- Pollock, William B., Company, The. (See Nelson, A. C., and Reilly, assignors.)
- Pollock, William B., Company, The. (See Nelson, Alfred C., assignor.)
- Polo, Andrew, and J. Anelli, Newark, N. J. Egg holder. No. 1,406,222; Feb. 14.
- Polson, Grover C., Berkeley, Calif. Multiple-panel-locked cabinet. No. 1,438,503; Dec. 12.
- Pomeranz, Jacob J., New York, N. Y. Lock. No. 1,419,516; June 13.
- Pomeroy, Arthur K., Washington, D. C., assignor to F. Higgins, Rockville, Md., trustee for the shareholders of the International Shoe Heel Corporation. Cushion heel. No. 1,432,617; Oct. 17.
- Pomeroy, Bernard H., Rochester, N. Y. Electric heater for vapor fuel. No. 1,412,891; Apr. 18.
- Pomeroy, Edward S., assignor to Smith & Wesson, Springfield, Mass. Automatic pistol. No. 1,431,979; Oct. 17.
- Pomeroy, Eltweed, Donna, Tex. Orchard heater. No. 1,435,939; Nov. 21.
- Pomeroy, Le D. R., Toledo, Ohio. Automatic coil former. No. 1,402,014; Jan. 3.
- Pomeroy, Percy W., assignor to The Willys-Overland Company, Toledo, Ohio. Transmission lock mechanism. No. 1,410,116; Mar. 21.
- Pomeroy, Ralph E. H., Canton, Ohio. Treating pulverized fuel. No. 1,423,150; July 18.
- Pomeroy, Ralph E. H., Canton, Ohio. Dry-pulverizing apparatus. No. 1,427,322; Aug. 29.
- Pomeroy, Ralph E. H., Canton, Ohio. Pulverizing apparatus. No. 1,431,251; Oct. 10.
- Pomeroy, Ralph E. H., Canton, Ohio. Pulverizing material. No. 1,431,252; Oct. 10.
- Pomilio, Alessandro. (See Cataldi, Benjamino, assignor.)
- Pomilio, Alessandro, New York, N. Y. Bassinet. No. 1,422,619; July 11.
- Pomilio Brothers Corporation. (See Rebuffat, Orazio, assignor.)
- Pomilio Ottorino. (See Giovannoni, Guglielmo, assignor.)
- Pomerville, George, St. Hyacinthe, Quebec, Canada. Electric water heater. No. 1,439,577; Dec. 19.
- Pomroy, Francis E., St. Paul, Minn. Coin holder. No. 1,434,501; Nov. 7.
- Pond, Coradon N., Galena, Ill. Flange oiler. No. 1,435,977; Nov. 21.
- Pondelick, Leo, assignor to E. O. Beardsley, Chicago, Ill. Differential gearing. No. 1,431,036; Oct. 3.
- Pondorf, Paul, Gossnitz, Germany, assignor to the Firm Maschinen- & Metallwarenfabrik G. m. b. H., Berlin, Germany. Method and apparatus for rolling in the neck in press-button parts or the like. No. 1,417,199; May 23.
- Ponstein, Isidore J., New Orleans, La. Fan. No. 1,418,165; May 30.
- Pontiere, Stanley M., Philadelphia, Pa. Traffic signal for motor vehicles. No. 1,410,502; Mar. 21.
- Ponting, Herbert G., and G. W. Ford, London, England; said Ford assignor to said Ponting. Film holder. No. 1,440,173; Dec. 26.
- Pooch, Louis D., Dayton, Ohio. Fertilizer and producing the same. No. 1,439,188; Dec. 19.
- Pool, J. Corbly, Santa Barbara, Calif. Oil separator. No. 1,418,970; June 6.

Alphabetical list of patentees—Continued.

- Pool, J. Corbley, assignor of one-half to W. B. Poole, Santa Barbara, Calif. Hydrocarbon still. No. 1,436,526; Nov. 21.
- Pool, Joseph E., Carnegie, Pa. Treating metal articles. No. 1,410,117; Mar. 21.
- Poole, Arthur F. (See Golber, H., and Poole.)
- Poole, Arthur F., Kenilworth, Ill., assignor to The Wahl Company, New Castle, Del. Single-magazine pencil. No. 1,406,077; Feb. 7.
- Poole, Arthur F., Kenilworth, Ill. Speed indicator for aeroplanes. No. 1,422,224; July 11.
- Poole, Arthur F., Kenilworth, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y. Totalizer clear signal. No. 1,426,502; Aug. 22.
- Poole, Homer J., and S. E. Couch, Springfield, Mass.; said Couch assignor to said Poole. Device for grinding contact points. No. 1,436,436; Nov. 21.
- Poole, Orrin C., jr., Auburndale, Mass. Adjustable support for mirrors. No. 1,432,206; Oct. 17.
- Poole, Samuel S., Boston, Mass. Flue cleaner. No. 1,415,950; May 16.
- Poole, W. E. (See Pool, J. Corbley, assignor.)
- Poore, Philip, London, England. Apparatus for treating substances in a finely divided condition. No. 1,420,944; June 27.
- Poorman, Guy R., Sherwood, Ohio. Display case. No. 1,411,890; Apr. 4.
- Pope, Alfred T., Louisville, Ky. Incubator. No. 1,407,671; Feb. 21.
- Pope, Arthur W., jr., Kenosha, Wis. Piston. No. 1,432,897; Oct. 24.
- Pope, Charles E., Springfield, Mass., assignor to Great Northern Paper Company, Millinocket, Me. Uppender. No. 1,437,547; Dec. 5.
- Pope, George F., Shabbona, Ill. Change-speed gearing. No. 1,410,347; Mar. 21.
- Pope, Hampton J., Bolling, Ala. Boll-weevil catcher. No. 1,408,030; Feb. 28.
- Pope, John W., Memphis, Tenn. Annunciator. No. 1,404,542; Jan. 24.
- Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Nail. No. 1,419,981; June 20.
- Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-grouting and lip-cutting machine. (Reissue.) No. 15,448; Sept. 5.
- Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Counter and shank fastening machine. No. 1,429,694; Sept. 19.
- Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on shoes. No. 1,431,980; Oct. 17.
- Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for cutting and assembling sectional-heel lifts. No. 1,436,722; Nov. 28.
- Pope Machine Company. (See La Montagne, Patrick P., assignor.)
- Pope Machine Company. (See Randall, Edison E., assignor.)
- Pope, Thomas H., Brooklyn, N. Y. Amusement game. No. 1,416,506; May 16.
- Pope, Thomas H., Brooklyn, N. Y. Curtain. No. 1,434,405; Nov. 7.
- Pope, Turner T., Houston, Tex. Vaporizing attachment for printing presses. No. 1,409,235; Mar. 14.
- Pope, William L., Huntersville, N. C. Two-way tractor. No. 1,409,772; Mar. 14.
- Popin, Ziva, New York, N. Y. Heater for waving hair. No. 1,416,750; May 23.
- Popkin, Morris, Malden, Mass. Carburetor lock for internal-combustion engines. No. 1,409,236; Mar. 14.
- Pople, George W., Trinidad, Colo. Railway tie and rail clamp. No. 1,410,078; Mar. 21.
- Popp, Fred W., and S. B. Clark, Vallejo, Calif. Game board. No. 1,426,599; Aug. 22.
- Popp, Lee W. (See Hamilton, George W., assignor.)
- Poppelreuter, Walther, Bonn, Germany. Automatic work-recording apparatus. No. 1,431,597; Oct. 10.
- Poppenhusen, Herman A., Hammond, Ind., assignor to Green Engineering Company, East Chicago, Ind. Liquid-cooled conduit for furnaces. No. 1,423,540; July 25.
- Poppenhusen, Herman A., Hammond, Ind., and R. T. R. Hastings, Highland Park, assignors to Sanitax Brush Company, Chicago, Ill. Brush. No. 1,438,720; Dec. 12.
- Popper, Isaac C., New York, N. Y. Automatic butter-cutting machine. No. 1,424,117; July 25.
- Popper, Isaac C., assignor to Basic Products Corporation, New York, N. Y. Collapsible field stove. No. 1,423,252; July 18.
- Popper, Isaac C., assignor to The Theroz Company, New York, N. Y. Portable heater and cooker. No. 1,437,073; Nov. 28.
- Popper, Julius S., New York, N. Y. Finger piece. No. 1,427,017; Aug. 22.
- Popper & Co., Gesellschaft mit beschränkter Haftung. (See Zollinger, Adalbert, assignor.)
- Porath, Carl A., assignor to Kokomo Steel and Wire Company, Kokomo, Ind. Fence-weaving loom. No. 1,426,007; Aug. 15.
- Porcelain Appliance Corporation. (See Harrison, Arthur W., assignor.)
- Porcelain Insulator Corporation, The. (See Plimpton, Bentley A., assignor.)
- Porcupine Manufacturing Company. (See Steell, Edgar M., assignor.)
- Porritt, Benjamin D., assignor to The North British Rubber Company, Limited, Edinburgh, Scotland. Vulcanization of rubber and other like substances. No. 1,418,166; May 30.
- Port Orford Cedar Separator Company. (See Buckhart, James W., assignor.)
- Portable Elevator Mfg. Co. (See Irey, John H., assignor.)
- Portable Machinery Co. (See Wentz, Jere L., assignor.)
- Porter, Alexander T., Elizabeth, N. J. Providing and administering medicine. No. 1,404,643; Jan. 24.
- Porter, Alexander T., Elizabeth, N. J. Producing combustible vapor. No. 1,411,182; Mar. 28.
- Porter, Arthur W., Colfax, Iowa. Traction engine. No. 1,419,689; June 13.
- Porter Brothers Textile Company. (See Hill, W. E., and Firth, assignors.)
- Porter, Burton C., Groveland, assignor of one-tenth to E. L. Barr, Clovis, Calif. Excavating machine. No. 1,410,503; Mar. 21.
- Porter, Charles E., Neville Township, Allegheny County, Pa. Car step. No. 1,415,699; May 9.
- Porter, Charles F., Chicago, Ill. Hair waver. No. 1,412,963; Apr. 18.
- Porter, Charles W., Berkeley, Calif. Process of and composition for preventing rust. No. 1,433,226; Oct. 24.
- Porter, Charles W., Berkeley, Calif. Making an explosive shell. No. 1,438,399; Dec. 12.
- Porter Chemical Company, The. (See Porter, John J., and H. M., assignors.)
- Porter, David E., administrator. (See Pratt, Albert B.)
- Porter, Donald B., San Francisco, Calif. Phonograph record. No. 1,425,281; Aug. 8.
- Porter, Edwin S., New York, N. Y. Framing device. No. 1,433,475; Oct. 24.
- Porter, Finley R., Port Jefferson, N. Y., assignor to Knight American Patents Company, Chicago, Ill. Internal-combustion engine. No. 1,428,858; Sept. 12.
- Porter, Finley R., Garden City, assignor to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Fuel-supply system. No. 1,437,861; Dec. 5.
- Porter, Harold M. (See Porter, John J. and H. M.)
- Porter, Herman O., Rochester, N. Y. Radiator cover. No. 1,402,651; Jan. 3.
- Porter, Horton B. (See Rosson, G. C., and Porter.)
- Porter, J. E., Corporation. (See Weintz, William L., assignor.)
- Porter, James R., Exmouth, England. Propulsion means for vessels. No. 1,440,242; Dec. 26.
- Porter, James S., Buffalo, N. Y. Tool for operating split wheel rims. No. 1,406,680; Feb. 14.
- Porter, John J., Hagerstown, Md. Color composition and preparing same. No. 1,402,442; Jan. 3.
- Porter, John J. and H. M., Hagerstown, Md., assignors to The Porter Chemical Company. Compartment receptacle. No. 1,430,849; Oct. 3.
- Porter, Marzell C., Jacksonville, Fla. Swinging gate. No. 1,435,079; Nov. 7.
- Porter, Philip W. (See Merwin, Newton D., assignor.)
- Porter, Philip W. (See Van Buskirk, L. W., and Porter.)
- Porter, Robert, and J. G. Ries, Chicago, Ill. Bottle cap and sifter. No. 1,420,861; June 27.
- Porter, Waterman W. (See Moeller, Joseph F., assignor.)
- Porter, Wilfrid H., Flinton, assignor of one-half to J. W. Spensley, Manchester, England. Apparatus for measuring or indicating the density of liquids in containers. No. 1,410,836; Mar. 28.
- Porter, Will R., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Spotlight projector. No. 1,408,222; Feb. 28.
- Porter, Will R., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Dental-engine handpiece. No. 1,408,907; Mar. 7.
- Porter, William B., Minneapolis, Minn. Compo-board machine. No. 1,427,971; Sept. 5.
- Porter, William K., Pittsburgh, Pa. Brake means. No. 1,418,167; May 30.
- Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Rod gong for striking clocks. No. 1,424,677; Aug. 1.
- Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Automobile clock. No. 1,428,902; Sept. 12.
- Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Chime clock. No. 1,437,012; Nov. 28.
- Porterfield, John C., Clairsville, Ohio. Shifting hitch. No. 1,428,903; Sept. 12.
- Portheim, Emil, Prague, assignor to Firm of Kinziberger & Co., Smichov-Prague, Czechoslovakia Republic. Purification of crude anthracene. No. 1,404,055; Jan. 17.
- Portheim, Emil, assignor to Kinziberger & Co., Prague, Republic of Czechoslovakia. Purification of anthraquinone. No. 1,404,056; Jan. 17.
- Portlock, William S., sr., Norfolk, Va. Lock for automobiles. No. 1,427,323; Aug. 29.
- Posa, Joseph, Bridgeport, Conn. Mouth appliance. No. 1,439,910; Dec. 26.
- Posch, Ludwig, Jersey City, N. J., assignor of one-half to M. Lancek, New York, N. Y. Vise. No. 1,405,325; Jan. 31.

- Poser, Max, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic test-lens frame. No. 1,422,303; July 11.
- Posler, Adam. (See Haessly, H. L., and Posler.)
- Posnack, Emanuel R., Brooklyn, N. Y. Recuperator and blocks for building the same. No. 1,431,486; Oct. 10.
- Posson, Edward, Chicago, Ill. Roller-bearing journal. No. 1,406,279; Feb. 14.
- Posson, Edward, Chicago, Ill. Side bearing for railway cars. No. 1,411,222; Mar. 28.
- Posson, Edward, Chicago, Ill. Door holder. No. 1,425,282; Aug. 8.
- Posson, Edward, Park Ridge, Ill. Tank outlet valve and operating mechanism therefor. No. 1,426,008; Aug. 15.
- Posson, Edward, assignor of one-half to F. C. Macgly, Chicago, Ill. Grain door for railway cars. No. 1,413,354; Apr. 18.
- Possons, Minard A., Cleveland, Ohio. Safety device for presses. No. 1,417,346; May 23.
- Post, Charles B., New London, Ohio. Tractor. No. 1,403,563; Jan. 17.
- Post, Charles B., New London, Ohio. Steering mechanism. No. 1,405,435; Feb. 7.
- Post, Charles E., and P. G. Wagner, assignors to F. E. Nellis, jr., Chicago, Ill. Nonglare headlight. (Reissue.) No. 15,449; Sept. 5.
- Post, Claude L., Chicago, Ill. Envelope-handling device. No. 1,437,443; Dec. 5.
- Post, Claude L., Chicago, Ill. Inking mechanism. No. 1,437,444; Dec. 5.
- Post, Claude L., Chicago, Ill. Printing-plate-clamping means. No. 1,437,445; Dec. 5.
- Post, Claude L., Chicago, Ill. Envelope-handling device. No. 1,439,755; Dec. 26.
- Post, Clifford W. (See Urquhart, W. R., Post, Humphrey, and Van Arsdale.)
- Post, Clyde G., North English, Iowa. Stringed musical instrument. No. 1,410,504; Mar. 21.
- Post, Ernest K., Collingswood, N. J. Front and lock rod for switches. No. 1,426,097; Aug. 15.
- Post, George B., assignor to Huff, Daland & Company, Inc., Ogdensburg, N. Y. Airplane. No. 1,423,681; July 25.
- Post, Harold L., Appleton, Wis. Basket-ball game. No. 1,407,215; Feb. 21.
- Post, Harold L., Appleton, Wis. Game or puzzle. No. 1,425,793; Aug. 15.
- Post, John H., et al. (See Hull, Horace, assignor.)
- Post, Nathaniel B., Chicago, Ill. Pop-corn mold. No. 1,421,555; July 4.
- Post, Nathaniel B., Chicago, Ill. Coffee roaster. No. 1,423,818; July 25.
- Post, Truman W., Providence, R. I., assignor to Willys Corporation, Toledo, Ohio. Automobile headlight. No. 1,405,717; Feb. 7.
- Post, Truman W., Providence, R. I., assignor to Willys Corporation, Toledo, Ohio. Headlight. No. 1,416,235; May 16.
- Post, Truman W., New York, N. Y., assignor to Willys Corporation, Toledo, Ohio. Headlight. No. 1,423,253; July 18.
- Postcraft Company, The. (See Burr, Harry J., assignor.)
- Postel, Charles, jr. (See Lockman, C. D., and Postel.)
- Postel-Vinay, Pierre J. R., Paris, assignor to Societe des Moteurs Salmson (Systeme Canton-Unne), Billancourt, Seine, France. Piston-rod connection for explosion engines. No. 1,413,682; Apr. 25.
- Postel-Vinay, Pierre J. R., assignor to Societe des Moteurs Salmson (Systeme Canton-Unne), Paris, France. Wood-slicing machine. No. 1,415,470; May 9.
- Postel-Vinay, Pierre J. R., assignor to Societe Des Moteurs Salmson (Systeme Canton-Unne), Paris, France. Compression-relief system for star-shaped engines. No. 1,420,282; June 20.
- Postl, Charles M., Chicago, Ill. Garter. No. 1,404,719; Jan. 24.
- Postma, John, Loleta, Calif. Device for the straining and canning of milk and the like. No. 1,403,108; Jan. 10.
- Poston, Furman E., and J. S. Humphries, Lake City, S. C. Mail carrier. No. 1,430,515; Sept. 26.
- Potash Extraction Corporation. (See Glaeser, Walter, assignor.)
- Potash Reduction Company. (See Runey, C. F., and Show, assignors.)
- Potash Reduction Company. (See Stevens, Truman E., assignor.)
- Potdevin, Adolph, assignor to Potdevin Machine Company, New York, N. Y. Paper bag. No. 1,435,057; Nov. 14.
- Potdevin Machine Company. (See Potdevin, Adolph, assignor.)
- Poth, Henry, Cincinnati, Ohio. Means for operating electromagnetic reciprocating tools with pulsating direct current. No. 1,407,804; Feb. 28.
- Poth, Joseph C., and H. R. Erdman, Milwaukee, Wis. Building block. No. 1,412,573; Apr. 11.
- Poth, Joseph C., Milwaukee, Wis. Building block. No. 1,438,610; Dec. 12.
- Potklick, Majc, Lilly, Pa. Sled. No. 1,407,888; Feb. 28.
- Potstada, George, Oakland, Calif. Electric heating element. No. 1,402,889; Jan. 10.
- Potstada, George, Oakland, Calif. Electric-cord retainer. No. 1,418,462; June 6.
- Potter, Arthur G., et al. (See Cook, Phillip H., assignor.)
- Potter, C. D., Company, The. (See Potter, Van C., assignor.)
- Potter, Charles F., et al. (See Sykes, George, assignor.)
- Potter, Clarence S., et al. (See House, Herbert E., assignor.)
- Potter, Elvie L. (See Potter, George E. and E. L.)
- Potter, Fred B., Los Angeles, Calif. Bending device for pipes and bars. No. 1,419,755; June 13.
- Potter, George E. and E. L., Chicago, Ill. Invisible tie holder. No. 1,413,131; Apr. 18.
- Potter, George M., et al. (See Haber, Henry J., assignor.)
- Potter, George S., Camden, N. J. Folder. No. 1,408,531; Mar. 7.
- Potter, Horace M. (See Van Kirk, Arthur C., assignor.)
- Potter, Isaac B. (See Waggoner, Claude M., assignor.)
- Potter, James C., Pawtucket, R. I. Chuck for metal-working machines. No. 1,433,032; Oct. 24.
- Potter, James C., Pawtucket, R. I. Automatic turret lathe. No. 1,433,033; Oct. 24.
- Potter, James E., Providence, R. I. Button. No. 1,425,131; Aug. 8.
- Potter, Laurens D., Emmetsburg, Iowa. Radiator protector and air-control device. No. 1,407,216; Feb. 21.
- Potter, Laurens D., and T. C. Nolan, Emmetsburg, Iowa. Loader device. No. 1,423,878; July 25.
- Potter, Molton D., deceased, A. M. Freeman, special agent, assignor to W. E. Dibble, Sioux Falls, S. Dak. Hoisting device. No. 1,426,503; Aug. 22.
- Potter, Ralph S. (See Weisberg, L., and Potter.)
- Potter, Stephen J., assignor to Sheet Lathing Corporation, Syracuse, N. Y. Plaster support for walls. No. 1,423,879; July 25.
- Potter, Thomas R. F., Brooklyn, N. Y. Check holder and punch. No. 1,417,564; May 30.
- Potter, Van C., assignor to The C. D. Potter Company, Stamford, Conn. Perch support. No. 1,436,527; Nov. 21.
- Potter, Warren T., et al. (See House, Herbert E., assignor.)
- Potter, Washington M., Freedom, Pa. Lunch kit. No. 1,404,405; Jan. 24.
- Potter, William, New York, N. Y. Carpenter's plane. No. 1,432,035; Oct. 17.
- Potter, William F., Elmira, N. Y. Automobile signal lamp. No. 1,435,080; Nov. 7.
- Potter & Buflington Company. (See Weed, Edward L., assignor.)
- Pottle, Harry G., assignor, by mesne assignments, to Ludlow Typograph Company, Chicago, Ill. Typographical mechanism. No. 1,414,707; May 2.
- Pottratz, Charles, Philadelphia, assignor of one-half to Ashton R. Powell, Hatboro, Pa. Separator for storage batteries. No. 1,410,595; Mar. 28.
- Potts, Louis M., Baltimore, Md., assignor, by mesne assignments, to American Telephone and Telegraph Company, New York, N. Y. Automatic switch for controlling motor-driven automatic machines. No. 1,403,626; Jan. 17.
- Potts, Louis M., Baltimore, Md., assignor, by mesne assignments, to American Telephone and Telegraph Company, New York, N. Y. System of telegraph distribution. No. 1,419,409; June 13.
- Potts, Peter T., Chicago, Ill., assignor to The Vortex Mfg. Co. Sanitary sundae-cup holder and dispenser. No. 1,424,517; Aug. 1.
- Potts, Samuel A. (See Gains, Chester R., assignor.)
- Potts, William H., Riverbank, Calif. Tractor hitch for scrapers. No. 1,403,627; Jan. 17.
- Pouchain, Adolfo, Turin, Italy. Manufacture of celluloid vessels. No. 1,427,972; Sept. 5.
- Pouchain, Adolfo, Turin, Italy. Negative plate for electric accumulators and the manufacture thereof. No. 1,429,300; Sept. 19.
- Pouley, Arthur D. (See Pouley, Robert E. and A. D.)
- Pouley, Robert E., Chicago, Ill., and A. D., Bayonne, N. J. Valve grinder. No. 1,412,964; Apr. 18.
- Poulsen, Oscar, et al., legatees. (See Krogh, Ferdinand W.)
- Pounder Harrow Company. (See Haumerson, Anton F., assignor.)
- Povillaitis, Marcijonas, Chicago, Ill. Grain mill. No. 1,436,404; Nov. 21.
- Powdered Coal Engineering & Equipment Company. (See Pruden, Harry B., assignor.)
- Powdered Coal Engineering and Equipment Company. (See Williams, T. F., Coy. and Pruden, assignors.)
- Powell, A. L., Power Co., The. (See Powell, Alvah L., assignor.)
- Powell, Alfred E., Bronxville, N. Y. Valve. No. 1,402,314; Jan. 3.
- Powell, Alvah L., assignor to The A. L. Powell Power Co., Miles City, Mont. Internal-combustion engine. No. 1,433,649; Oct. 31.
- Powell, Alvah L., assignor to The A. L. Powell Power Co., Inc., Miles City, Mont. Internal-combustion engine. No. 1,433,650; Oct. 31.
- Powell, Alvah L., assignor to The A. L. Powell Power Co., Miles City, Mont. Internal-combustion engine. No. 1,434,146; Oct. 31.
- Powell, Alvah L., assignor to The A. L. Powell Power Co., Inc., Miles City, Mont. Internal-combustion engine. No. 1,434,147; Oct. 31.
- Powell, Archibald D., Baintree, England. Lifting jack. No. 1,422,781; July 11.

Alphabetical list of patentees—Continued.

- Powell, Arthur P. (See Blee, J. W. H., and Powell.)
 Powell, Ashton R. (See Pottratz, Charles, assignor.)
 Powell, Charles, Pauls Valley, Okla. Wheel attachment. No. 1,404,644; Jan. 24.
 Powell, Earl J. (See Griswold, R. H., and Powell.)
 Powell, Edwin T., assignor of one-half to J. T. Powell, Wachapreague, Va. Baggage carrier. No. 1,402,958; Jan. 10.
 Powell, Everton B., Newark, N. J., assignor of one-half to F. N. Windridge, Cherrydale, Va. Hair-cutting machine. No. 1,421,350; June 27.
 Powell, Frederick E., and P. M. McNary, Providence, R. I. Anti-sparrow-roosting device. No. 1,435,940; Nov. 21.
 Powell, George C., Bancroft, Mich. Collapsible coop. No. 1,437,676; Dec. 5.
 Powell, George F., assignor of one-third to F. D. Score, Toronto, Ontario, Canada. Cap for tire valves. No. 1,413,775; Apr. 25.
 Powell, Gomert. (See Oehm, W. N., and Powell.)
 Powell, Howard L. (See Beers, F., and Powell.)
 Powell, James E., Littleton, Colo. Cylinder grinder. No. 1,437,548; Dec. 5.
 Powell, Jesse E., Los Angeles, Calif. Rotary engine. No. 1,405,326; Jan. 31.
 Powell, Jesse K., assignor to Armour and Company, Chicago, Ill. Toilet article. No. 1,430,683; Oct. 3.
 Powell, John F., Monroe, La. Portable combination wood-working machine. No. 1,417,686; May 30.
 Powell, John T. (See Powell, Edwin T., assignor.)
 Powell, Joseph M., Brooklyn, Ind., assignor to Eagle Iron Works, Des Moines, Iowa. Cutter for shale planers. No. 1,418,463; June 6.
 Powell, L. S. (See Rogers, James B., assignor.)
 Powell, R. E. (See Marshall, Chilton M., assignor.)
 Powell, Raymond E., assignor to Federal Electric Company, Chicago, Ill. Charging rack. No. 1,425,689; Aug. 15.
 Powell, Robert W. (See Stewart, A. L., and Powell.)
 Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Automatic telephone selecting system. No. 1,432,618; Oct. 17.
 Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Electromechanical telephone system. No. 1,437,356; Nov. 28.
 Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Revertive test system. No. 1,437,357; Nov. 28.
 Powels, John, New York, N. Y. Form retainer for hats. No. 1,419,517; June 13.
 Power, Dudley P., assignor of one-third to E. P. Babcock and one-third to F. Delano, Portland, Oreg. Dehydrator or drier. No. 1,422,620; July 11.
 Power Engineering Company, The. (See Coryell, William C., assignor.)
 Power, Frederick B., Washington, D. C., and V. K. Chesnut, Hyattsville, Md., dedicated, by mesne assignments, to the People of the United States. Synthetic apple oil. No. 1,436,290; Nov. 21.
 Power, George H., Tulsa, Okla. Sign support. No. 1,408,636; Mar. 7.
 Power, Harold J., Somerville, assignor to American Radio & Research Corporation, Medford, Mass. Inductance device. No. 1,429,453; Sept. 19.
 Power, Henry R., assignor to Carborundum Company, Niagara Falls, N. Y. Abrasive article. No. 1,427,844; Sept. 5.
 Power, Joseph S., assignor to The Davis Sewing Machine Company, Dayton, Ohio. Frame and casing for washing machines. No. 1,426,318; Aug. 15.
 Power, Joseph S., assignor to The Davis Sewing Machine Company, Dayton, Ohio. Washing machine. No. 1,436,679; Nov. 28.
 Power, Joseph S., assignor to The Davis Sewing Machine Company, Dayton, Ohio. Washing machine. No. 1,436,680; Nov. 28.
 Power, Joseph S., and J. W. Pearson, assignors to The Davis Sewing Machine Company, Dayton, Ohio. Locking mechanism. No. 1,432,492; Oct. 17.
 Power, Nicholas, Company. (See Power, Nicholas, assignor.)
 Power, Nicholas, Brooklyn, assignor to Nicholas Power Company, New York, N. Y. Signal attachment for film reels. No. 1,407,083; Feb. 21.
 Power, Nicholas, Brooklyn, assignor to Nicholas Power Company, New York, N. Y. Motion-picture machine. No. 1,423,452; July 18.
 Power, Nicholas, Brooklyn, assignor to Nicholas Power Company, New York, N. Y. Shutter mechanism for moving-picture machines. No. 1,427,228; Aug. 29.
 Power, Patrick M. (See Edman, John, assignor.)
 Power Specialty Company. (See Bell, John E., assignor.)
 Power Specialty Company. (See Foster, Ernest H., assignor.)
 Power Specialty Company. (See Keenan, Walter F., Jr., assignor.)
 Power Specialty Company. (See Primrose, John, assignor.)
 Power, Thomas J., Philadelphia, Pa. Floor-planing machine. No. 1,418,328; June 6.
 Power, Vincent J., Pratt, assignor of one-twentieth to B. Harms, McPherson, Kans. Riveting bar. No. 1,414,095; Apr. 25.
 Powers Accounting Machine Company. (See Lasker, William W., assignor.)
 Powers, Charles C., Kernville, Calif. Preheating means for carburetors. No. 1,404,645; Jan. 24.
 Powers, Ernest L. (See Krenke, Otto, assignor.)
 Powers, Fred W., assignor to The Powers Regulator Company, Chicago, Ill. Water mixer. No. 1,423,880; July 25.
 Powers, George B., Superior, Wis. Tree holder. No. 1,422,304; July 11.
 Powers, James, Los Angeles, Calif. Toothpick cutter and dispenser. No. 1,436,528; Nov. 21.
 Powers, John N., Washington, D. C. Sales book. No. 1,425,690; Aug. 15.
 Powers, Martin A. (See Carr, J. H., and Powers.)
 Powers, Michael E., Baltimore, Md. Lock. No. 1,433,651; Oct. 31.
 Powers Regulator Company. (See Powers, Fred W., assignor.)
 Powers, Robert E., Montreal, Quebec, Canada. Coupling centering device. No. 1,421,556; July 4.
 Powers, Robert T., Oxford, Mass. Lug strap. No. 1,406,487; Feb. 14.
 Powers, Robert T., North Oxford, Mass. Lug-strap support. No. 1,418,396; June 6.
 Powers, William P., Los Angeles, Calif. Regulator. No. 1,430,113; Sept. 26.
 Powow Manufacturing Company. (See Wells, George W., assignor.)
 Powrie, John H., New York, N. Y. Registering a plate for successive photographic printings and master or model plate for same. No. 1,439,325; Dec. 19.
 Poyner, Andy J. (See Daugherty, Elmo M., assignor.)
 Poynter, David C., Mount Vernon, Ky. Tire armor. No. 1,405,327; Jan. 31.
 Pozdeck, Adolph F., Newark, N. J. Manicuring instrument. No. 1,428,396; Sept. 5.
 Prabst, Anthony C., and N. E. Holte, Antigo, Wis. Saw guard. No. 1,414,581; May 2.
 Praetorius, Kurt, Dresden, Germany. Wall of blocks of wood and similar material. No. 1,418,464; June 6.
 Prahar, Robert L., Brooklyn, N. Y. Bag frame. No. 1,403,864; Jan. 17.
 Prall, Bryan W., West New Brighton, N. Y. Navigating instrument. No. 1,428,449; Sept. 5.
 Prange, Maurice N., Detroit, Mich. Portable sanding, abrading, and polishing machine. No. 1,421,303; June 27.
 Prat, Emile, Paris, France. Heat exchanger. No. 1,409,967; Mar. 21.
 Prat, Emile, assignor to Société des Cheminées Louis Prat & Tirage Induit, Paris, France. Induced-draft device. No. 1,434,313; Oct. 31.
 Prat, Louis, Paris, France. Locomotive draft device. No. 1,410,718; Mar. 28.
 Prater, Harry O., Clayton, Wash. Steam boiler. No. 1,407,217; Feb. 21.
 Prater, William T., Bloomfield, Mo. Stirrup. No. 1,421,304; June 27.
 Prather, Grills A., Milliken, Colo. Railway-rail anchor. No. 1,416,576; May 16.
 Pratt, Albert B., Lyndon, Vt., deceased; D. E. Porter, administrator. Firearm. No. 1,433,514; Oct. 24.
 Pratt, Alfred M. C., assignor to W. G. Ashlin, Hobart, Tasmania, Australia. Cooking stove. No. 1,439,756; Dec. 26.
 Pratt, Alphonso C., Erie, Pa. Apparatus for making grommets. No. 1,414,828; May 2.
 Pratt, Alphonso C., Deep River, Conn., assignor to Whiting & Davis Company. Machine for making link mesh. No. 1,414,829; May 2.
 Pratt, Alphonso C., Deep River, Conn., assignor to International Bead Wire Company. Bead wire and making the same. No. 1,434,720; Nov. 7.
 Pratt, Alphonso C., Deep River, Conn., assignor to International Bead Wire Company. Bead wire and making same. No. 1,434,721; Nov. 7.
 Pratt, Alphonso C., Deep River, Conn., assignor to Whiting & Davis Company. Machine for making link mesh. No. 1,436,681; Nov. 28.
 Pratt, Alphonso C., Deep River, Conn., assignor to International Bead Wire Company. Grommet or core for tire beads. No. 1,437,013; Nov. 28.
 Pratt, Alphonso C., Deep River, Conn., assignor, by mesne assignments, to Whiting & Davis Company, Plainville, Mass. Machine for making link mesh. No. 1,438,721; Dec. 12.
 Pratt, Arthur D. (See Stevens, J. A., and Pratt.)
 Pratt, Charles A., assignor to Goodman Manufacturing Company, Chicago, Ill. Storage-battery locomotive. No. 1,424,849; Aug. 8.
 Pratt, Frederick J., Detroit, Mich. Grinding gauge. No. 1,425,283; Aug. 8.
 Pratt, Frederick J., Detroit, Mich. Gauge for cylinders. No. 1,425,284; Aug. 8.
 Pratt, George R., Winnipeg, Manitoba, Canada. Fire pot. No. 1,412,133; Apr. 11.
 Pratt, Harvey S., Whiting, Iowa. Trap spring. No. 1,409,773; Mar. 14.
 Pratt, Howell D., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Ballast-cleaning machine. No. 1,404,999; Jan. 31.

- Pratt, Howell D., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Power hoe. No. 1,437,358; Nov. 28.
- Pratt, John H., Shelley, Idaho. Gate-opening attachment. No. 1,439,838; Dec. 26.
- Pratt, John T., et al., trustees. (See Estabrooke, W. L., and Jackson, assignors.)
- Pratt, John T., Tiptonville, Tenn. Tiling block. No. 1,432,567; Oct. 17.
- Pratt, Lewis M., Eldorado, Kans. Catch for screen doors and the like. No. 1,408,637; Mar. 7.
- Pratt, Manna M. (See Lucas, G. C., and Pratt.)
- Pratt Read Player Action Company, The. (See Fisher, Stanley L., assignor.)
- Pratt Read Player Action Company, The. (See Slingsby, Ernest W., assignor.)
- Pratt, Richard W., St. Louis, Mo. Driving device for automobiles, railway motor cars, and locomotives. No. 1,421,925; June 27.
- Pratt, Robert, Armstrong, Ill. Glare extinguisher. No. 1,434,750; Nov. 7.
- Pratt, Theodore, Glen Cove, N. Y. Internal combustion engine. No. 1,431,754; Oct. 10.
- Pratt, William B., Wellesley, assignor to E. H. Clapp Rubber Company, Boston, Mass. Ebonite solution. No. 1,409,570; Mar. 14.
- Pratt, William E. (See Barker, George R., assignor.)
- Pratt, William E. (See Van Fleet, Elton J., assignor.)
- Pratt, Wm. E., Mfg. Company. (See Beilharz, Carl E., assignor.)
- Pratt & Lambert. (See Ross, Hedley, assignor.)
- Pratt & Whitney Company. (See Blood, Bryant H., assignor.)
- Pratt & Whitney Company. (See Buckingham, Earle, assignor.)
- Pratt & Whitney Company. (See Hanson, Bengt M. W., assignor.)
- Pratt & Whitney Company. (See Hill, Reuben, assignor.)
- Pratt & Whitney Company. (See Hoagland, Frank O., assignor.)
- Pratt & Whitney Company. (See Knowles, Carroll, assignor.)
- Pratt & Whitney Company. (See Larsson, Anders E., assignor.)
- Pratt & Whitney Company. (See Müller, Friederich, assignor.)
- Pratt & Whitney Company. (See Olsen, Lawrence E., assignor.)
- Pratt & Whitney Company. (See Weingar, William H., assignor.)
- Pray, Louis H., Medford, Mass. Pneumatic action for pianos. No. 1,413,612; Apr. 25.
- Pray, Thomas E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining locomotive. No. 1,410,596; Mar. 28.
- Pray, Thomas E., assignor to Goodman Manufacturing Company, Chicago, Ill. Draft device for mining machines. No. 1,411,932; Apr. 4.
- Pray, Thomas E., assignor to Goodman Manufacturing Company, Chicago, Ill. Support for mining machines. No. 1,421,557; July 4.
- Prebuda, Barney, Fall River, assignor of one-half to I. Chernock, Boston, Mass. Metallic heel for shoes. No. 1,439,443; Dec. 19.
- Precision Equipment Company. (See New, Thomas E., assignor.)
- Precision Machine Co., The. (See Myers, Morton E., assignor.)
- Predmore, Harvey H., Portland, Oreg., assignor to Pacific Coast Biscuit Company. Biscuit container. No. 1,437,616; Dec. 5.
- Prefontaine, Ephrem, Buffalo, N. Y. Grab bucket. No. 1,434,065; Oct. 31.
- Prehn, Ernest, Newark, N. J. Vehicle running-board brace. No. 1,439,481; Dec. 19.
- Prehn, Martin, assignor of one-half to M. L. Talbot, New York, N. Y. Display device. No. 1,435,658; Nov. 14.
- Preimesberger, Alois L., Menasha, Wis. Friction-clutch pulley. No. 1,421,558; July 4.
- Preiswerk, Ernst, Basel, Switzerland, assignor to The Hoffmann-La Roche Chemical Works, New York, N. Y. Manufacture of 1-allyl-3,7-dimethylxanthine. No. 1,415,700; May 9.
- Prell, Henry, Chicago, Ill. Vibrator. No. 1,437,014; Nov. 28.
- Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Compressor. No. 1,408,638; Mar. 7.
- Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Clearance valve for compressors. No. 1,422,476; July 11.
- Premery, Albert E., San Francisco, Calif. Spark plug. No. 1,433,149; Oct. 24.
- Premier Appliance Company. (See Loeben, Gustave A., assignor.)
- Premier Warm Air Heater Company. (See Wood, Harry L., assignor.)
- Premo, Alexander, West St. Paul, Minn. Numbering, forming, and cutting die. No. 1,407,769; Feb. 28.
- Prendergast, Alois P., Dallas, Tex. Gauge cock. No. 1,439,444; Dec. 19.
- Prendergast, Edward, St. Louis, Mo. Grading machine. No. 1,421,559; July 4.
- Prendergast, Harold Y., Brooklyn, N. Y. Sound box for tarking machines. No. 1,408,776; Mar. 7.
- Prendergast, Harold Y., Brooklyn, N. Y. Sound box. No. 1,410,595; Mar. 21.
- Prentice, George E., Berlin, Conn. Belt buckle. No. 1,433,652; Oct. 31.
- Prentice, George E., Berlin, and R. C. Legat, New Britain, Conn. Buckle for belts. No. 1,430,255; Sept. 26.
- Prentice, Lloyd M. (See Woodhull, L. S., Prentice, and Alice.)
- Prentice, Thomas, assignor to The Peck, Stow & Wilcox Company, Southington, Conn. Wrench. No. 1,436,110; Nov. 21.
- Prentiss, William A., Holyoke, Mass. Spool. No. 1,425,895; Aug. 15.
- Presby, Leroy Q., Boston, Mass., assignor to Globe Optical Company. Lens-cutting machine. No. 1,417,468; May 23.
- Prescott, Arthur T., East Orange, N. J., assignor to George H. Frothingham Company, New York, N. Y. Door and hoisting mechanism therefor. No. 1,431,181; Oct. 10.
- Prescott, Charles A., Victoria, British Columbia, Canada. Lock. No. 1,435,874; Nov. 14.
- Prescott, Charles E., Brooklyn, N. Y. Throttle-valve operation. No. 1,404,646; Jan. 24.
- Prescott, Sydney L., New York, N. Y., and F. J. Rummier, Lyndhurst, N. J. Wood wheel. No. 1,437,993; Dec. 5.
- Prescott, Sydney L., New York, N. Y., and F. J. Rummier, Lyndhurst, N. J. Wheel. No. 1,437,994; Dec. 5.
- Prescott, William E., Harlesden, assignor to Joseph Baker & Sons Limited, London, England. Apparatus for heating or cooling chocolate and other plastic materials. No. 1,408,827; Mar. 7.
- Prescott, William E., assignor to J. Baker and Sons Limited, London, England. Machine for breaking cocoa cake or the like. No. 1,421,560; July 4.
- Prescott, William E., London, assignor to Joseph Baker, Sons and Perkins, Limited, Willesden Junction, London, England. Cooling apparatus. No. 1,427,018; Aug. 22.
- Prescott, William H., Aberdeen, Wash. Slicing utensil. No. 1,436,906; Nov. 28.
- Presner, Joseph. (See Vineberg, J. H., Halliday, and Presner.)
- Press, Jacob, Sons. (See Press, J. H., and Avery, assignors.)
- Press, Jacob H., and I. F. Avery, assignors to Jacob Press Sons, Chicago, Ill. Vehicle body. No. 1,425,541; Aug. 15.
- Press, Reece W., and C. W. Schwenzfeier, Glassboro, N. J., assignors to The Owens Bottle Company, Toledo, Ohio. Electrical recording apparatus. No. 1,416,751; May 23.
- Pressed Metals Company of Canada Limited. (See Leighton, John W., assignor.)
- Pressed Roof Piston Ring Company. (See Marshall, Lewis C., assignor.)
- Pressed Steel Car Company. (See Lockwood, Burns D., assignor.)
- Pressed Steel Car Company. (See Pehrson, Alfred K., assignor.)
- Pressler, Willard E., Fort Wayne, Ind. Slug stacker. No. 1,415,471; May 9.
- Pressure Proof Piston Ring Company. (See Hall, Andrew F., assignor.)
- Pressure Proof Piston Ring Company. (See Marshall, Lewis C., assignor.)
- Pressure Proof Piston Ring Company. (See Small, Frederick E., assignor.)
- Prestes, George J., assignor of one-fourth to C. A. Nelson, Los Angeles, Calif. Automobile jack. No. 1,403,975; Jan. 17.
- Prest-O-Lite Company, The. (See Skinner, H. O., and Smith, assignors.)
- Prest-O-Lite Company, The. (See Westlund, Albert F., assignor.)
- Preston, Carleton B., Providence, R. I. Attachment for phonographs. No. 1,423,360; July 18.
- Preston, Clarence S., San Diego, Calif. Vehicle tire. No. 1,408,714; Mar. 7.
- Preston, Clarence S., San Diego, Calif. Vehicle tire. No. 1,409,774; Mar. 14.
- Preston, Edward E., Leicester, England. Knitting-machine-needle knocking-over means. No. 1,436,529; Nov. 21.
- Preston, Edward S., Chicago, Ill., assignor to Edmunds & Jones Corporation. Vehicle lamp. No. 1,427,631; Aug. 29.
- Preston, Edwin, Oakland, Calif. Building block. No. 1,418,168; May 30.
- Preston, Frank M., Victoria, British Columbia, Canada. Underwater concrete bucket. No. 1,435,734; Nov. 14.
- Preston, Frederick A., Highland Park, assignor to The P & M Company, Chicago, Ill. Anticreeper. No. 1,430,584; Oct. 3.
- Preston, Herbert J. (See Allen, Joseph B., assignor.)
- Preston, Herbert J., Sydney, New South Wales, Australia. Electrical device for heating liquids and the like. No. 1,428,803; Sept. 12.
- Preston, Stephen, Roanoke, Va. Rotatable spider. No. 1,439,378; Dec. 19.
- Preston, Sylvester C. (See Garner, J. B., and Preston.)
- Prestoy Manufacturing Company, The. (See Carlson, Andrew H., assignor.) (Reissue.)
- Prestwich, Ernest. (See Prestwich, Wright and E.)

Alphabetical list of patentees—Continued.

- Prestwich, Sydney, Cincinnati, assignor to The American Laundry Machinery Company, Norwood, Ohio. Centrifugal extractor. No. 1,414,525; May 2.
- Prestwich, Sydney, Wilmington, Del., assignor to The American Laundry Machinery Company, Norwood, Ohio. Centrifugal extractor. No. 1,416,125; May 16.
- Prestwich, Wright and E., Lawrence, Mass. Removable handle mechanism for brushes or brooms. No. 1,423,151; July 18.
- Pretsch, Frank, Philadelphia, Pa. Tool holder. No. 1,407,478; Feb. 21.
- Preuss, Frank, Philadelphia, Pa. Tool holder. No. 1,413,490; Apr. 18.
- Prettyman, Edwin B., Porterville, Calif. Camp oven. No. 1,433,845; Oct. 31.
- Preuss, Fred A., Humphrey, Nebr. Wheel-bracing attachment. No. 1,413,491; Apr. 18.
- Prevital, Mario L., Denver, Colo. Motor-cycle spring structure. No. 1,407,218; Feb. 21.
- Prevost, Arthur A., Detroit, Mich. Wrench. No. 1,422,621; July 11.
- Prevot, Frederic P., assignor to The Bead Chain Manufacturing Co., Bridgeport, Conn. Tassel. No. 1,425,336; Aug. 8.
- Preziosi, Lorenzo, Brooklyn, N. Y. Cabinet. No. 1,431,420; Oct. 10.
- Pribble, Irvin, Topeka, Kans., assignor of one-half to Roland C. Pribble, Washington, D. C. Liquid fuel furnace. No. 1,408,468; Mar. 7.
- Pribble, Roland C. (See Pribble, Irvin, assignor.)
- Price, Abraham R., Oregon City, Oreg. Garment marker. No. 1,404,318; Jan. 24.
- Price, Albert O., assignor to J. A. Compton, Coshocton, Ohio. Phonograph resonance box. No. 1,407,574; Feb. 21.
- Price, Arthur, Freeport, N. Y. Film-conveying apparatus. No. 1,412,216; Apr. 11.
- Price, Bernard, Johannesburg, South Africa, assignor to himself and The Victoria Falls and Transvaal Power Company, Limited, London, England. Oil switch. No. 1,415,114; May 9.
- Price, Charles A., Washington, D. C. Sanitary holder for collapsible tubes. No. 1,435,622; Nov. 14.
- Price, Charles H., Sedgley, England. Corner fitting for bedsteads, cots, and mattresses. No. 1,433,097; Oct. 24.
- Price, Charles S., assignor to The Walby Storage Battery and Plate Manufacturing Company, Kansas City, Mo. Magnetic recharger. No. 1,408,532; Mar. 7.
- Price, Charles S., Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric snap switch. No. 1,432,898; Oct. 24.
- Price, Edward, Los Angeles, Calif. Amusement device. No. 1,406,412; Feb. 14.
- Price, Frank J., Brooklyn, and M. W. Gallaway, New York, N. Y. Hair-cutting device. No. 1,417,200; May 23.
- Price, Helen C., administratrix. (See Price, William T.)
- Price, James B., Cross Keys, assignor of one-half to L. Silverthorne, Newport, England. Double-acting internal-combustion engine. No. 1,429,695; Sept. 19.
- Price, John R., Charlottesville, Va., assignor to Development and Finance Company of New York, New York, N. Y. Multiple-cylinder compression pump. No. 1,413,933; Apr. 25.
- Price, Joseph W., Jr. (See Light, R. A., and Price.)
- Price, Mitchell D., Miami, Fla. Can opener. No. 1,410,837; Mar. 20.
- Price, Morris, Los Angeles, Calif. Automobile wheel locator. No. 1,434,148; Oct. 31.
- Price, Oliver O., Oroqui, Calif. Road scraper. No. 1,418,465; June 6.
- Price, Ralph A., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrolytic anode. No. 1,438,722; Dec. 12.
- Price, Sam. (See Wilson, W., and Price.)
- Price, Samuel H. (See Campbell, P. A., Eby, and Price.)
- Price, Stanton II., Chehalis, Wash. Rear-wheel attachment for tire pumps. No. 1,409,023; Mar. 7.
- Price, Stephen C., Louisiana, assignor to Barnett & Wilson Investment Company, St. Louis, Mo. Oil can. No. 1,412,090; Apr. 11.
- Price, Stephen C., assignor to F. W. Buffum, Louisiana, Mo. Pouring device for bottles and the like. No. 1,428,297; Sept. 5.
- Price, Virgil M., San Francisco, Calif. Concrete-mixer loader. No. 1,424,737; Aug. 1.
- Price, Walter J., Holyoke, Mass. Imparting a pattern finish to paper. No. 1,403,628; Jan. 17.
- Price, Walter J., Holyoke, Mass. Apparatus for imparting a pattern finish to paper and the like. No. 1,403,629; Jan. 17.
- Price, Willard B. (See Wright, H. H. L., and Price.)
- Price, William G., Yakima, Wash. Current meter. No. 1,413,355; Apr. 18.
- Price, William G., Yakima, Wash. Box or package handling apparatus. No. 1,416,060; May 16.
- Price, William G., Yakima, Wash. Apparatus for handling and delivering boxes or packages from one elevation to another. No. 1,428,184; Sept. 5.
- Price, William R. (See Diesel, W. F., and Price.)
- Price, William T. (See Crosby, Arthur P., assignor.)
- Price, William T., New Rochelle, N. Y., deceased; H. C. Price, administratrix. Horizontal-engine bed. No. 1,433,476; Oct. 24.
- Price, William T. R., assignor to International Motor Company, New York, N. Y. Spring clip. No. 1,407,479; Feb. 21.
- Price & Kepple Piano Company. (See Freborg, Charles, assignor.)
- Prichard, Robert H., Los Angeles, Calif. Canteen holder. No. 1,420,143; June 20.
- Prichard, Robert H., Los Angeles, Calif. Luggage carrier. No. 1,420,445; June 20.
- Prichard, Robert H., Los Angeles, Calif. Luggage carrier. No. 1,428,706; Sept. 12.
- Prickett, John L., assignor of one-third to E. Knauber, Manitowish, Wis. Nipple chuck. No. 1,432,121; Oct. 17.
- Pridemore, William H., Alice, Tex. Bolt holder. No. 1,412,965; Apr. 18.
- Pridham, Edwin S., Oakland, assignor to The Magnavox Company, San Francisco, Calif. Telephone transmitter. No. 1,430,257; Sept. 26.
- Pridham, Edwin S., Oakland, assignor to The Magnavox Co., San Francisco, Calif. Telephone transmitter. No. 1,430,258; Sept. 26.
- Pridham, Edwin S., and P. L. Jensen, assignors to Commercial Wireless & Development Company, San Francisco, Calif. Method of and apparatus for telephonically transmitting speech. No. 1,430,256; Sept. 26.
- Priebe, Ernest B. (See Straub, A. A., and Priebe.)
- Priesbush, John, Brooklyn, N. Y. Gramophone-record brush. No. 1,414,302; Apr. 25.
- Priess, William H., New York, N. Y., assignor to Wireless Specialty Apparatus Company, Boston, Mass. Apparatus for use in making condensers. No. 1,404,793; Jan. 31.
- Priesthoff, John B., Kokomo, Ind., assignor of one-half to G. Wilken, Latonia, Ky. Nail machine. No. 1,427,845; Sept. 5.
- Priestley, Charles M. E., assignor to Société Vedovelli Priestley & Co., Paris, France. Manufacturing electric transformers of small power. No. 1,427,324; Aug. 29.
- Priestman, Albert, Philadelphia, Pa. Pumping system. No. 1,415,701; May 9.
- Prietz, Reinhold, et al. (See Kolling, Charles H., assignor.)
- Prigan, Gustave H., assignor of one-third to E. H. Fuller and one-third to A. White, Burns, Mont. Securing device for the connecting strips of automobiles. No. 1,425,691; Aug. 15.
- Prihoda, Fred F., Charleston, W. Va. Dispensing holder. No. 1,425,416; Aug. 8.
- Prillwitz, Hans H. C. (See Laska, A. L., and Prillwitz.)
- Priluker, Max, New York, N. Y. Mask. No. 1,417,201; May 23.
- Primrose, John, assignor to Power Specialty Company, New York, N. Y. Damper control for oil stills. No. 1,425,896; Aug. 15.
- Prims, Joseph C., assignor to The A. J. Deer Company, Incorporated, Hornell, N. Y. Slicing machine. No. 1,403,564; Jan. 17.
- Primus, Charles C., Ewing, Nebr. Wagon-pole extension. No. 1,429,769; Sept. 19.
- Prince, Clarence K., Westfield, Mass. Independent zone plan for continuous foundry operations. No. 1,421,305; June 27.
- Prince, Frank N., assignor to Passaic Metal Ware Co., Passaic, N. J. Support for box covers. No. 1,418,673; June 6.
- Prince, Harry, assignor to The City Brass Foundry Company, Cleveland, Ohio. Blasting-fuse implement. No. 1,431,421; Oct. 10.
- Prince, John. (See Nilson, J. L., and Prince.)
- Prince, Oscar M., San Francisco, Calif. Turntable for motor vehicles. No. 1,404,479; Jan. 24.
- Pringle, William E., Columbus, Ohio. Drier. No. 1,431,037; Oct. 3.
- Printz, Charles H., Luray, Va. Belt attachment. No. 1,438,330; Dec. 12.
- Printz, Wilhelm, Kettwig, Germany. Fertilizer-distributing machine. No. 1,413,132; Apr. 18.
- Printz, Wilhelm, Kettwig-Ruhr, Germany. Fertilizer-distributing machine. No. 1,418,169; May 30.
- Printz, Wilhelm, Kettwig-Ruhr, Germany. Machine for distributing fertilizer. No. 1,426,671; Aug. 22.
- Prior, Walter, East Orange, and W. jr., South Orange, N. J. Machine for cutting bias strips. No. 1,432,207; Oct. 17.
- Prior, Walter, jr. (See Prior, Walter and W. jr.)
- Priori, Rev. Marino. (See Izzo, Salvatore, assignor.)
- Priskey, John, Detroit, Mich. Ice-cream remover. No. 1,425,337; Aug. 8.
- Prismatone Co., The. (See Saalburg, Charles W., assignor.)
- Pritchard, Franklin H., Schneckady, N. Y., assignor to General Electric Company. Power transmission and electric braking. No. 1,421,828; July 4.
- Pritchard, George A. (See Buckman, H. H., and Pritchard.)
- Pritchard, Howard P., Cleveland, Ohio. Boring or surfacing tool holder. No. 1,439,190; Dec. 19.
- Pritchard, Thomas W., Wilmington, N. C. Cleaning and scouring compound. No. 1,407,297; Feb. 21.
- Pritchard, William S., Detroit, Mich. Saw-filing machine. No. 1,417,687; May 30.
- Pritchard, William S., assignor to Motor Products Corporation, Detroit, Mich. Tube-cutting mechanism. No. 1,424,179; Aug. 1.

- Pritchard, William S., assignor to Motor Products Corporation, Detroit, Mich. Tube-closing mechanism. No. 1,424,180; Aug. 1.
- Pritchard, William S., assignor to Motor Products Corporation, Detroit, Mich. Method and machine for soldering tubing. No. 1,424,181; Aug. 1.
- Pritchett, William L., and W. H. Walker, Dover, Del. Embalmers' operating stand. No. 1,403,865; Jan. 17.
- Privett, Harry E., Live Oak, Fla. Tool for removing perches from automobile axles. No. 1,440,102; Dec. 26.
- Priwer, Herman F., Springfield, Ohio, assignor of one-half to J. E. Galvin. Electric-furnace platform. No. 1,436,723; Nov. 28.
- Prizma Incorporated. (See Kelley, W. V. D., and Dunning, assignors.)
- Prizma, Incorporated. (See Kelley, William V. D., assignor.)
- Probert, Edwin R., Covington, Ky. Sheet-metal roofing. No. 1,406,082; Feb. 7.
- Probert, Edwin R., Covington, Ky. Flexible or rolling metallic shutter. No. 1,437,947; Dec. 5.
- Probst, Henry W., St. Paul, Minn. Bottle carrier. No. 1,407,480; Feb. 21.
- Probst, William F., assignor to The Chillicothe Bean Snipper Company, Chillicothe, Ohio. Machine for snipping beans and other articles. No. 1,432,899; Oct. 24.
- Probstel, Philip, Brooklyn, N. Y., assignor of one-half to Charles B. Silverberg, Caldwell, N. J. Permutation valve. No. 1,412,134; Apr. 11.
- Process Engineers, Incorporated. (See De Cew, Judson A., assignor.)
- Prockter, Walter, Yamacraw, Ky. Hoist. No. 1,410,118; Mar. 21.
- Procter, Fred G., jr., Portsmouth, N. H. Nose piece for eyeglasses. No. 1,439,912; Nov. 7.
- Procter, Joseph H. (See Miller, F. H., and Procter.)
- Procter, Joseph H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical protective device. No. 1,437,074; Nov. 28.
- Procter, Joseph H., and M. J. Sandin, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Refillable fuse. No. 1,425,692; Aug. 15.
- Proctor, Benjamin, Jr., Wellesley Hills, Mass. Picture frame. No. 1,417,108; May 23.
- Proctor, Charles H., Arlington, and C. J. Wernlund, Woodbridge Township, Middlesex County, N. J., assignors to The Roessler & Hasselacher Chemical Company. Electroplating with alkaline bath. No. 1,435,875; Nov. 14.
- Proctor, Russell W. (See Sonne, O. E., Proctor, and Miller.)
- Proctor & Schwartz, Incorporated. (See Ayres, E. B., and Bogaty, assignors.)
- Proctor & Schwartz, Incorporated. (See Ayres, E. B., and Rhoads, assignors.)
- Proctor & Schwartz, Incorporated. (See Ayres, Elwood B., assignor.)
- Proctor & Schwartz, Incorporated. (See Bogaty, H., and Buckley, assignors.)
- Proctor & Schwartz, Incorporated. (See Bogaty, Hermann, assignor.)
- Proctor & Schwartz Incorporated. (See Howson, Henry, assignor.)
- Proctor & Schwartz, Incorporated. (See Kantner, Howard E., assignor.)
- Production Machine Company. (See Fuller, Rufus W., assignor.)
- Production Meter Company. (See Johnson, Austin C., assignor.)
- Products Protection Corporation, The. (See Smith, Franklin S., assignor.)
- Proffitt, John H., Fresno, assignor of one-half to R. Haass, Los Angeles, Calif. Auxiliary air intake for internal-combustion engines. No. 1,429,770; Sept. 19.
- Progress Manufacturing Company. (See Stahl, Gustav H., assignor.)
- Progress Roller Company. (See La Tour, L., and Munnell, assignors.)
- Progressive Engineering Company. (See Campbell, Charles A., assignor.)
- Progressive Machine and Metal Products Co. (See Kipniss, Abraham, assignor.)
- Projection Optics Company, Inc. (See Repp, William H., assignor.)
- Prokop, Josef, Pardubice, Czechoslovakia. Treatment of cereals. No. 1,439,379; Dec. 19.
- Prokopovitch, Andrew S., Dickson City, Pa. Bank check. No. 1,431,038; Oct. 3.
- Prokupek, Frank, Millvale, Pa. Antiskid device and tire protector. No. 1,407,298; Feb. 21.
- Prometheus, Fabrik-Elektrischer Kock- & Heizapparate, Gesellschaft mit beschränkter Haftung. (See Schulz, Willy, assignor.)
- Prosperity Co., The. (See Deckert, Fedor E. and O. R., assignors.)
- Prosser, Charles R., Melbourne, Victoria, Australia. Device for the delivery of tickets. No. 1,419,075; June 6.
- Prosser Company. (See Prosser, Joseph G., assignor.)
- Prosser, Joseph G., Chicago, Ill., assignor to Prosser Company, Boston, Mass. Method and apparatus for obtaining work in internal-combustion engines. No. 1,417,859; May 30.
- Prost, John P., St. Louis, Mo. In-a-wall furniture. No. 1,428,707; Sept. 12.
- Protective Signal Manufacturing Company, The. (See Nearn, Will C., assignor.)
- Protis, Peter, Philadelphia, Pa. Safety hook. No. 1,402,652; Jan. 3.
- Proudfoot, Charles S. (See Harry, R. J., and Proudfoot.)
- Proulx, Arthur A. (See Frank, John J., assignor.)
- Prout, Lena B., Morland, Kans. Sound amplifier for talking machines. No. 1,437,677; Dec. 5.
- Prouty, George W., Milton, Mass. Mechanical movement. No. 1,404,406; Jan. 24.
- Prouty, George W., Milton, Mass. Tire-wrapping machine. No. 1,413,776; Apr. 25.
- Prouty, Theodore C., Elgin, assignor, by mesne assignments, to Patents Holding Corporation, Chicago, Ill. Controlling apparatus for delivering oxygen. No. 1,407,575; Feb. 21.
- Prouty, Theodore C., Elgin, assignor, by mesne assignments, to Patents Holding Corporation, Chicago, Ill. Clutch mechanism. No. 1,433,299; Oct. 24.
- Prudden, Theodore M., Grafton, Mass. Belt splicer. No. 1,436,724; Nov. 28.
- Pruden, C. D., Corporation. (See Pruden, Clarence D., assignor.)
- Pruden, Clarence D., assignor to C. D. Pruden Corporation, Baltimore, Md. Sheet-metal house. No. 1,406,757; Feb. 14.
- Pruden, Harry B. (See Williams, T. F., Coy, and Pruden.)
- Pruden, Harry B., assignor to Powdered Coal Engineering & Equipment Company, Chicago, Ill. Comminuted-fuel carburetor. No. 1,437,678; Dec. 5.
- Prudhomme, Louis S., St. Boniface, Manitoba, Canada. Railway tie. No. 1,412,421; Apr. 11.
- Pruell, Joseph J., Walpole, Mass. Sash holder. No. 1,439,260; Dec. 19.
- Pruitt, August M., Cleveland, Ohio. Bottle carrier. No. 1,425,417; Aug. 8.
- Pruitt, Charles H. (See Braunger, Charles A., assignor.)
- Pruitt, Conrad D., Los Angeles, Calif. Postage-stamp-vending machine. No. 1,410,955; Mar. 28.
- Pruitt, Eugene R., Baltimore, Md. Temporary fastening. No. 1,426,098; Aug. 15.
- Pruitt, James H. (See Braunger, Charles A., assignor.)
- Prutzman, Paul W., Los Angeles, Calif., assignor to General Petroleum Corporation. Apparatus for washing insoluble powders. No. 1,426,099; Aug. 15.
- Pruzan, Mae V., New York, N. Y. Brassière. No. 1,408,139; Feb. 28.
- Pry, David A., Walnut, Pa. Rail. No. 1,420,216; June 20.
- Prym, August, Busbach, near Stolberg, Germany. Press button. No. 1,438,551; Dec. 12.
- Prym, Hans, Stolberg, Germany. Machine for mounting press buttons on cards. No. 1,407,576; Feb. 21.
- Prym, Hans, Stolberg, Germany. Press button. No. 1,439,326; Dec. 19.
- Pryor, Charles R., Garfield, Md., assignor of one-half to W. B. Stottlemeyer, Waynesboro, Pa. Internal-combustion engine. No. 1,427,632; Aug. 29.
- Pryor, Reginald C., Houghton, Mich. Amusement device. No. 1,407,084; Feb. 21.
- Pryor, Thomas J., Stathorpe, Queensland, Australia. Wrench or spanner. No. 1,407,577; Feb. 21.
- Pslander, Charles A., assignor to William Wharton, Jr., & Company, Incorporated, Easton, Pa. Universal spring box. No. 1,409,775; Mar. 14.
- Pslander, Charles A., assignor to William Wharton, Jr., & Company Incorporated. Switch mechanism. No. 1,411,869; Apr. 4.
- Pslander, Charles A., assignor to William Wharton, Jr., & Company, Incorporated, Easton, Pa. Self-adjusting guard-rail clamp. No. 1,414,708; May 2.
- Pslander, Charles A., and W. M. Henderson, assignors to William Wharton, Jr., & Company, Incorporated, Easton, Pa. Traction wheel. No. 1,418,971; June 6.
- Psotka, Marla, et al. (See Marks, Louis, assignor.)
- Public Service Cup Co. (See House, Henry A., assignor.)
- Puc, Ignaz, Wrschowitz, near Prague, Austria. Pressure fastener. No. 1,439,327; Dec. 19.
- Puc, Vojtěch, Prague-Vinohrady, Bohemia. Crochet needle. No. 1,415,472; May 9.
- Puc, Vojtěch, Prague-Vinohrady, Bohemia. Safety pin. No. 1,415,473; May 9.
- Puc, Vojtěch, Prague-Vinohrady, Bohemia. Snap button. No. 1,415,474; May 9.
- Puc, Vojtěch, Prague-Vinohrady, Bohemia. Safety pin. No. 1,415,475; May 9.
- Puc, Vojtěch, Prague-Vinohrady, Bohemia. Safety pin. No. 1,415,476; May 9.
- Puc, Vojtěch, Prague-Vinohrady, Bohemia. Dies for punching small metal parts. No. 1,415,477; May 9.
- Puc, Vojtěch, Prague-Vinohrady, Bohemia. Polishing machine. No. 1,415,478; May 9.
- Puc, Vojtěch, Prague-Vinohrady, Bohemia. Sealing device. No. 1,421,714; July 4.
- Puc, Vojtěch, Prague-Vinohrady, Bohemia. Mechanism for sorting the socket members of snap fasteners. No. 1,421,715; July 4.
- Puc, Vojtěch, Prague-Vinohrady, Bohemia. Machine for feeding articles to carding and other machines. No. 1,436,822; Nov. 28.
- Puchalski, John, Cleveland, Ohio. Keyed zither. No. 1,405,328; Jan. 31.
- Puckett, C. A., et al. (See Kirkpatrick, Otey R., assignor.)

Alphabetical list of patentees—Continued.

- Puckette, Charles C., Salford, assignor of one-half to Conner Magneto & Ignition, Limited, Stoke, Warwickshire, England. Magneto-electric machine for internal-combustion engines. No. 1,419,076; June 6.
- Puening, Franz, Pittsburgh, Pa. Coking coal. No. 1,419,908; June 13.
- Puerner, Albert E., Port Atkinson, Wis. Circuit closer for controlling electric lights. No. 1,411,300; Apr. 4.
- Puget, Jules E. L., assignor to Société Industrielle des Téléphones (Constructions Electriques, Caoutchouc, Câbles), Paris, France. Relay for telephone circuits. No. 1,437,679; Dec. 5.
- Pugh, Charles H., Limited. (See Ball, George F., assignor.)
- Pugh, G. T., et al. (See Bodie, Albert B., assignor.)
- Pugh, George W., Leona Mines, Va. Wire connector. No. 1,417,408; May 23.
- Pugh, Harry W., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone substitution apparatus. No. 1,406,223; Feb. 14.
- Pugh, Harry W., assignor to Western Electric Company, Incorporated, New York, N. Y. Adapter for calling devices. No. 1,414,373; May 2.
- Pugh, John V., Coventry, England, assignor, by mesne assignments, to Wire Wheel Corporation of America. Detachable wheel. (Reissue.) No. 15,357; May 16.
- Pugh, John V., Coventry, assignor to Rudgo-Whitworth Limited, Coventry, Warwick, England. Rotational driving connection such as detachable wheel hubs. No. 1,424,211; Aug. 1.
- Pugh, Marguerite A., New Orleans, La. Radiotherapeutic shield. No. 1,406,488; Feb. 14.
- Pugnet, Paul, Paris, France. Suspender clip. No. 1,420,746; June 27.
- Pugsley, Edwin, New Haven, Conn., assignor to The Winchester Repeating Arms Company. Battery candle. No. 1,421,561; July 4.
- Publ, William H., Zion City, Ill. Ratchet attachment for screw drivers. No. 1,415,389; May 9.
- Puke, Ferdinand J. (See Puke, Joseph H., J. F., and F. J.)
- Puke, John F. (See Puke, Joseph H., J. F., and F. J.)
- Puke, Joseph H., J. F., and F. J., Cincinnati, Ohio. Knife pouch. No. 1,431,487; Oct. 10.
- Pulig, Philip W., Philadelphia, Pa. Bag holder. No. 1,427,123; Aug. 29.
- Pullar, Harold B., Lawrenceville, Ill. Bituminous product and making the same. No. 1,409,237; Mar. 14.
- Pullar, James, Hartford, Conn. Dump wagon. No. 1,416,975; May 23.
- Pullen, George F., assignor to Waterbury Fastener Company, Waterbury, Conn. Snap-fastener top. No. 1,426,100; Aug. 15.
- Pullen, Percy J., Philadelphia, Pa., assignor to The Dentists' Supply Company. Mold for artificial teeth. No. 1,408,533; Mar. 7.
- Pullen, Rodney S., Atlantic City, N. J. Cigarette-making device. No. 1,411,933; Apr. 4.
- Pullin, Cyril G., Isleworth, England. Lubricating means for bearings external of a hollow member. No. 1,415,115; May 9.
- Pullin, Cyril G., London, England. Supplementary carburetor for starting internal-combustion engines. No. 1,424,320; Aug. 1.
- Pullman Company, The. (See Parke, Peter, assignor.)
- Pullman Company, The. (See Shaver, Milton E., assignor.)
- Pullman Couch Company. (See Kramer, J., and Wolf, assignors.)
- Pullman Davenport and Upholstered Furniture Company. (See Kramer, J., and Greaves, assignors.)
- Pullman Davenport and Upholstered Furniture Company. (See Kramer, J., Kuehne, and Koppin, assignors.)
- Pullman Davenport and Upholstery Furniture Company. (See Kramer, J., Kuehne, and Metzger, assignors.)
- Pullman Davenport & Upholstered Furniture Company. (See Kuehne, F. O., Jr., and Kramer, assignors.)
- Pullman, George, New York, N. Y. Time recorder. No. 1,422,477; July 11.
- Pullman Mfg. Company. (See Gardner, Edgar L., assignor.)
- Puls, Julius, Eagle Grove, Ia. Friction heating apparatus for polishing wheels. No. 1,417,202; May 23.
- Pulver, Ray D., Canton, S. Dak. Fastening device. No. 1,427,846; Sept. 5.
- Pulverman, Isidore, Warren, Pa. Tire gauge. No. 1,405,436; Feb. 7.
- Pumphrey, Whliard V., et al. (See Spitz, Samuel, assignor.)
- Pumpless Blow Torch Company. (See Anderson, James B., assignor.)
- Punga, Franklin, Liege, Belgium. Electrical system. No. 1,416,926; May 16.
- Punnell, William G., St. Paul, Minn. Child's vehicle. No. 1,438,662; Dec. 12.
- Punteshy, Archibald, Waterloo, Iowa. Grinding mill. No. 1,409,238; Mar. 14.
- Punin, Michael I., Norfolk, Conn., and E. H. Armstrong, Yonkers, N. Y. Selectively opposing impedance to received electrical oscillations. No. 1,415,845; May 9.
- Punin, Michael I., Norfolk, Conn., and E. H. Armstrong, Yonkers, N. Y. Radioreceiving system having high selectivity. No. 1,416,061; May 16.
- Puplett, Thomas J., Manchester, England. Internal-combustion turbine. No. 1,423,453; July 18.
- Purcell, Benjamin H., assignor of one-third to E. Lawyer and one-third to F. I. Honderik, Terre Haute, Ind. Universal carrier chain. No. 1,424,850; Aug. 8.
- Purcell, Benjamin H., assignor to The Automatic Machinery Company, Terre Haute, Ind. Leer feeder. No. 1,431,895; Oct. 10.
- Purcell, George G., Brooklyn, N. Y. Shaft attachment. No. 1,415,702; May 9.
- Purcell, Isaac S., Oak Park, assignor to Tentobed Company, Chicago, Ill. Folding cot. No. 1,434,962; Nov. 7.
- Purcell, Watson, Coleman, Tex. Transmission control. No. 1,413,133; Apr. 18.
- Purdie, Francis B., Albany, N. Y. Portable kitchenette. No. 1,406,758; Feb. 14.
- Purdin, Nettie J., assignor of one-fourth to O. B. West, Tecumseh, Okla. Dinner pail. No. 1,434,149; Oct. 31.
- Purdom, Archibald B., Blackshear, Ga. Sweet-potato vine cutter. No. 1,426,906; Aug. 22.
- Purdon, James, trustee. (See Mullaney, Benjamin F., assignor.)
- Purdy, Hugh, Belfast, Ireland. Toy building block. No. 1,424,376; Aug. 1.
- Purdy, Truman J., Sunbury, Pa. Voting booth. No. 1,426,101; Aug. 15.
- Purdy, Wilbur F., Chinook, Mont. Sickle. No. 1,428,657; Sept. 12.
- Purdy, William A., Manchester Depot, Vt. Hen nest. No. 1,435,497; Nov. 14.
- Purinton, Orren D., Providence, R. I. Fire indicator. No. 1,415,390; May 9.
- Puriton Manufacturing Corporation. (See Marsico, Geraad R., assignor.)
- Purnell, William R., U. S. Navy. Liquid-fuel burner. No. 1,413,154; Apr. 18.
- Purnell, William R., U. S. Navy. Air-control register for fuel burners. No. 1,434,406; Nov. 7.
- Purnell, William R., U. S. Navy. Air-control register. No. 1,436,823; Nov. 28.
- Purposed Mind Development Security Association of the World, The. (See McGahan, Frederick L., assignor.)
- Purviance, Nathan M., Lewiston, Idaho. Computing device. No. 1,426,332; Aug. 15.
- Purviance, Nathan M., Lewiston, Idaho. Self-feeding hammer. No. 1,435,978; Nov. 21.
- Pusey, Thomas M., Kennett Square, Pa. Electric regulator. No. 1,439,639; Dec. 19.
- Pushee, Harold B., assignor to The General Tire and Rubber Company, Akron, Ohio. Tire-repair material. No. 1,403,058; Jan. 10.
- Puter, Stephen A. D., Berkeley, Calif., and A. F. Eltscher, New York, N. Y., assignors to The Classified Automatic Directory Company. Directory cabinet. No. 1,415,703; May 9.
- Putkowski, Charles, Staten Island, assignor of one-half to W. Bronicki, Marine Harbor, N. Y. Cultivator. No. 1,417,942; May 30.
- Putnam, Henry V., Schenectady, N. Y. Dishwashing machine. No. 1,409,571; Mar. 14.
- Putnam, Alden L., Detroit, Mich., assignor to Detroit Pressed Steel Company, Wilmington, Del. Quick-mounting device for vehicle wheels. No. 1,402,440; Jan. 3.
- Putnam, Alden L., Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del. Vehicle wheel. No. 1,402,443; Jan. 3.
- Putnam, Alden L., Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del. Vehicle wheel and axle. No. 1,406,759; Feb. 14.
- Putnam, Alden L., Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del. Demountable wheel. No. 1,414,374; May 2.
- Putnam, Alden L., Detroit, Mich., assignor to Detroit Pressed Steel Company, Wilmington, Del. Disk wheel. No. 1,414,375; May 2.
- Putnam, Alden L., assignor, by mesne assignments, to Detroit Pressed Steel Company, Detroit, Mich. Vehicle wheel. (Reissue.) No. 15,358; May 16.
- Putnam, Alden L., Detroit, Mich., assignor to Detroit Pressed Steel Company, Wilmington, Del. Tire rim. No. 1,419,170; June 13.
- Putnam, Alden L., Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del. Vehicle wheel. No. 1,420,862; June 27.
- Putnam, Alden L., Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del. Dual vehicle wheel. No. 1,428,556; Sept. 12.
- Putnam, Alden L., Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del. Vehicle wheel. No. 1,438,400; Dec. 12.
- Putnam, Alden L., Detroit, Mich., assignor to Detroit Pressed Steel Company, Wilmington, Del. Hub-attachment means for automobile disk wheels. No. 1,438,401; Dec. 12.
- Putnam, Alexander S., Los Angeles, Calif. Bed-rail fastener. No. 1,423,623; July 25.
- Putnam, Burleigh, Pasadena, Calif. Machine gun. No. 1,429,370; Sept. 19.
- Putnam, Charles M., Alma, Mich. Corn stringer. No. 1,416,752; May 23.
- Putnam, Charles V., and R. F. Trimmer, East Cleveland, Ohio. Baking pan. No. 1,419,756; June 13.

- Putnam, Edwin W., Hartford, Conn. Electrically-heated fusing implement. No. 1,415,479; May 9.
- Putnam, F. A., Mfg. Co. (See Keyoum, O. C., and Putnam, assignors.)
- Putnam, Frank L., and G. Eberspacher, Houston, Tex.; said Eberspacher assignor to said Putnam. Automatic gas valve. No. 1,409,466; Mar. 14.
- Putnam, Fred A. (See Keyoum, O. C., and Putnam.)
- Putnam, Fred A., Keene, N. H., assignor to Markem Machine Company, Boston, Mass. Marking machine. No. 1,425,285; Aug. 8.
- Putnam, George E., Los Angeles, Calif. Curved-wing rotary bit. No. 1,427,019; Aug. 22.
- Putnam, Harold, et al. (See McDonald, Angus, assignor.)
- Putnam, Henry S., New York, N. Y. Electrically-operated transportation apparatus. No. 1,437,549; Dec. 5.
- Putnam, Henry S., New York, N. Y. Loading and unloading mechanism for transportation apparatus. No. 1,437,550; Dec. 5.
- Putnam, James R., assignor to Waterbury Clock Co., Waterbury, Conn. Intermittent-alarm clock movement. No. 1,416,870; May 23.
- Putnam, Mark E., and W. E. Kirst, assignors to The Dow Chemical Company, Midland, Mich. Cellulose-acetate solution. No. 1,406,224; Feb. 14.
- Putney, William W., assignor of one-fourth to C. E. Cartier and one-fourth to E. M. Holland, Grand Rapids, Mich. Hoop-forming machine. No. 1,421,829; July 4.
- Putnam, Willis E., Worcester, Mass. Fastener for swinging windows and the like. No. 1,432,784; Oct. 24.
- Putney, Leonard D. (See Farrar, A. J., and Putney.)
- Putt, Edward D. (See Stevens, W. C., and Putt.)
- Putt, Edward D., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Bead-covering machine. No. 1,409,467; Mar. 14.
- Putt, Edward D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Machine for trimming tires. No. 1,417,627; May 30.
- Putt, Edward D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tire-stripping machine. No. 1,428,979; Sept. 12.
- Putt, Edward D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Gauge for calendered rubber stock. No. 1,437,117; Nov. 28.
- Putt, Harlie O., Elkhart, Ind. Oscillator for magnetos. No. 1,423,734; July 25.
- Putt, Harlie O., Elkhart, Ind. Oscillator for magnetos. No. 1,423,735; July 25.
- Putt, Harlie O., Elkhart, assignor to Ace Magneto Company, Goshen, Ind. Collector and distributor system for high-tension magnetos. No. 1,416,507; May 16.
- Putt, Harlie O., Elkhart, Ind., assignor to The Ace Magneto Company. Automatic spark control and timing coupling for ignition magnetos. No. 1,427,847; Sept. 5.
- Puxon, Edgar, Hamilton, Ontario, Canada, assignor to Westinghouse Electric & Manufacturing Company. Change-over switch. No. 1,435,255; Nov. 14.
- Pybourn, Sydney. (See Pybourn, Thomas and S.)
- Pybourn, Thomas and S., Wolsingham, England. Hand tool. No. 1,433,566; Oct. 31.
- Pyburn, George, Airdrie, Scotland. Compound wire rope. No. 1,429,529; Sept. 19.
- Pye, Thomas P., Graton, Calif. Drier. No. 1,420,144; June 20.
- Pygeorge, Joseph. (See Gripp, R. H., and Pygeorge.)
- Pyle, Benjamin F., assignor to The Pyle Metallurgical Company, Denver, Colo. Flux. No. 1,416,871; May 23.
- Pyle, Clarence E., Philadelphia, Pa., assignor to The S. S. White Dental Manufacturing Company. Annealing device. No. 1,414,789; May 2.
- Pyle, Everett F. (See Pyle, Henry B. and E. F.)
- Pyle, Henry B. and E. F., St. Jacob, Ill. Extension tractor control. No. 1,433,742; Oct. 31.
- Pyle, Lewis M., Bryn Mawr, Pa., assignor to Niles-Bement-Pond Company, New York, N. Y. Metal planer. No. 1,434,751; Nov. 7.
- Pyle Metallurgical Company, The. (See Pyle, Benjamin F., assignor.)
- Pyle National Company, The. (See Dake, Charles W., assignor.)
- Pym, Charles F., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,406,280; Feb. 14.
- Pym, Charles F., Detroit, Mich., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Lasting boots or shoes. No. 1,412,892; Apr. 18.
- Pym, Charles F., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Lasting machine. No. 1,413,613; Apr. 25.
- Pym, Charles F., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting mechanism. No. 1,413,614; Apr. 25.
- Pym, Charles F., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Binder for use in lasting shoes. No. 1,415,951; May 16.
- Pym, Charles F., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for working uppers over lasts. No. 1,436,194; Nov. 21.
- Pyper Animated Sign Company. (See Pyper, George R., assignor.)
- Pyper, George R., assignor to Pyper Animated Sign Company, Salt Lake City, Utah. Animated sign. No. 1,403,630; Jan. 17.
- Pyper, George R., assignor to Pyper Animated Sign Company, Salt Lake City, Utah. Animated sign. No. 1,403,631; Jan. 17.
- Pyrene Manufacturing Company. (See Eckelmann, Luis E., assignor.)
- Pyrene Manufacturing Company. (See Ferguson, G. E., and Eckelmann, assignors.)
- Pyrocolor Corporation. (See Warga, Kalman, assignor.)
- Pyrotan Leather Corporation. (See Merry, Ernest W., assignor.)
- Pytlak, Stanley, McMechen, W. Va. Mousetrap. No. 1,432,300; Oct. 17.
- Q & C Company. (See Everett, Edward A., assignor.)
- Q & C Company. (See Zimmerman, Emil C., assignor.)
- Q. R. S. Music Company. (See Cunningham, Thomas A., assignor.)
- Q. R. S. Music Company. (See Spence, T. H., and Turnell, assignors.)
- Quackenbush, Cleveland H. and H. E., Cleveland, Ohio. Electric-light bulb. No. 1,425,606; Aug. 15.
- Quackenbush, Harvey E. (See Quackenbush, Cleveland H. and H. E.)
- Quackenbush, Ralph H., Baldwinsville, N. Y. Direction signal for automobiles. No. 1,438,552; Dec. 12.
- Quade, Louis K., Foley, Minn. Auto tire. No. 1,413,777; Apr. 25.
- Quagliano, Vito A., East Boston, Mass. Indicia plate for lenses. No. 1,426,770; Aug. 22.
- Quain, John R., London, England. Electric heater. No. 1,416,872; May 23.
- Quaker Oats Company, The. (See Ferguson, John L., assignor.)
- Quaker Oats Company, The. (See Laird, George, assignor.)
- Quaker Oats Company, The. (See Miner, Carl S., assignor.)
- Quaker Oats Company, The. (See Schumacher, Franz A., assignor.)
- Qualman, George J., Toledo, Ohio. Hair drier. No. 1,437,015; Nov. 28.
- Quam, James P., assignor to United Manufacturing & Distributing Company, Chicago, Ill. Air strainer for internal-combustion engines. No. 1,405,437; Feb. 7.
- Quam, James P., assignor to E. M. Adams, Chicago, Ill. Air cleaner. No. 1,434,562; Nov. 7.
- Quam, James P., assignor to E. M. Adams, Chicago, Ill. Air-cleaning device. No. 1,438,553; Dec. 12.
- Quam, Sverre, Brooklyn, N. Y. Snow remover. No. 1,404,140; Jan. 17.
- Quarles, Charles H., Charlottesville, Va., assignor to American Automatic Train Control Corporation, Baltimore, Md. Train-controlling mechanism. No. 1,439,482; Dec. 19.
- Quarles, Louis, Milwaukee, Wis. Grinder. No. 1,425,286; Aug. 8.
- Quarunstrom, Edmund G., Chicago, Ill. Portable adjustable holder for flash lights. No. 1,403,707; Jan. 17.
- Quass, Richard T., New York, N. Y. Material-handling machine. No. 1,436,907; Nov. 28.
- Quast, Arthur L. (See Pieser, J. G., and A. L. and J. C. Quast.)
- Quast, John C. (See Pieser, J. G., and A. L. and J. C. Quast.)
- Quednow, Frederick F., and G. J. Vokel, Philadelphia, Pa. Electric soldering iron. No. 1,431,039; Oct. 3.
- Quantell Corporation. (See Quantell, William P., assignor.)
- Quantell, William P., New York, N. Y., assignor to Quantell Corporation. Calculating machine. No. 1,439,710; Dec. 26.
- Quesenberry, Henry C., Delton, Va. Automatic air-brake control. No. 1,412,749; Apr. 11.
- Quesenberry, Price. (See Bidwell, Earl E., assignor.)
- Quest, John P., Chicago, Ill. Headlight for automobiles. No. 1,413,356; Apr. 18.
- Quest, William L. (See Grupe, R. M., and Quest.)
- Quick Action Ignition Company. (See Oglesby, Richard A., assignor.)
- Quick Action Ignition Company. (See Zuehlke, Julius A., assignor.)
- Quick, Brunnie W., assignor to Johnson Automatic Sealer Co., Ltd., Battle Creek, Mich. Conveyer. No. 1,427,325; Aug. 29.
- Quick, Charles F., Dallas, Tex. Elevator-controlling device. No. 1,406,489; Feb. 14.
- Quicksafe Manufacturing Company. (See Waller, R. H., and Jackson, assignors.)
- Quigley, John T., assignor to Costmeter Company, Boston, Mass. File or index equipment. No. 1,413,778; Apr. 25.
- Quigley, John T., assignor to Costmeter Company, Boston, Mass. Filing and indexing equipment. No. 1,433,846; Oct. 31.
- Quigley, John T., assignor to Costmeter Company, Boston, Mass. Filing and indexing equipment. No. 1,433,847; Oct. 31.
- Quigley, John T., assignor to Costmeter Company, Boston, Mass. Filing equipment. No. 1,433,848; Oct. 31.
- Quigley, Michael P., Port Richmond, N. Y. Nut wrench. No. 1,403,059; Jan. 10.

Alphabetical list of patents—Continued.

- Quigley, Peter J., Memphis, Tenn. Socket wrench. No. 1,436,195; Nov. 21.
- Quigley, William J. (See Thompson, C. W., and Quigley.)
- Quillet, Edmond, Vevey, Switzerland. Brickmaking machine. No. 1,433,300; Oct. 24.
- Quilling, Delyan W., Minneapolis, Minn. Dental device. No. 1,439,022; Dec. 19.
- Quimby, Charles H. (See Hinchman, Alva K., assignor.)
- Quimby, William E., Inc. (See Fay, Frank A., assignor.)
- Quin, Charles, Ottawa, Kans. Tag or label holder. No. 1,433,414; Oct. 24.
- Quinlan, Paul F., Jr., Elkins Park, Pa. Register dial. No. 1,424,518; Aug. 1.
- Quinn, Edward, Brooklyn, N. Y. Combined protector and fastener. No. 1,410,079; Mar. 21.
- Quinn, Edward A., Fresno, Calif. Combined oil and gas furnace. No. 1,432,087; Oct. 17.
- Quinn, Elmer, Philadelphia, Pa. Tool for releasing an air valve from rim of an automobile tire. No. 1,421,987; July 4.
- Quinn, Evan V., and D. Gallup, Olean, N. Y. Retort-bottom-bending device. No. 1,420,747; June 27.
- Quinn, Gilbert F., Beachmont, assignor to Simplex Rubber Company, Boston, Mass. Rubber heel. No. 1,402,377; Jan. 3.
- Quinn, Gilbert F., Revere, Mass. Attaching rubber and leather heels to shoes. No. 1,435,735; Nov. 14.
- Quinn, John N., Cincinnati, Ohio. Rolling-mill bearing. No. 1,405,438; Feb. 7.
- Quinn, John P., New York, N. Y. Repouring attachment. No. 1,406,892; Feb. 14.
- Quinn, John R. (See Schnable, E. R., and Quinn.)
- Quinn, Lawrence T., Sioux Falls, S. Dak. Windmill attachment. No. 1,412,750; Apr. 11.
- Quinn, Lee J. (See Gondeau, Wilton J., assignor.)
- Quinn, Patrick J., et al. (See Bulski, Andrew, assignor.)
- Quinn, Peter J. (See Mayne-Read, R., and Quinn.)
- Quinn, Walter J., New York, N. Y. Rail joint. No. 1,432,301; Oct. 17.
- Quinn, Wilbur, Battle Creek, Mich. Combination shovel and screen. No. 1,409,572; Mar. 14.
- Quinn, William A. (See Courtney, T. J., Quinn, and Connors.)
- Quinn, William R., New York, N. Y. Oil burner. No. 1,427,910; Sept. 5.
- Quinn, William W., assignor of one-third to E. Higgins and one-third to P. T. Klepper, Bremerton, Wash. Electric hair-clipping machine. No. 1,438,136; Dec. 5.
- Quinn Wire & Iron Works. (See Chinneck, Herbert J. L., assignor.)
- Quinton, Arthur M., Boston, Mass. Slicing-machine knife guard. No. 1,402,959; Jan. 10.
- Quirin, Emile J. F., Tioga Center, N. Y. Machine for setting out and unhairing calf and goat skins. No. 1,438,059; Dec. 5.
- Quiroga, Miguel A., Buenos Aires, Argentina. Explosion engine. No. 1,432,900; Oct. 24.
- Quiry, Alfred G., Neuilly-sur-Seine, assignor to P. J. R. Amiard, Paris, France. Soldering iron. No. 1,416,508; May 16.
- Quost, Jacques, Paris, France. Mold for building chimneys of reinforced concrete. No. 1,424,775; Aug. 8.
- Qvarnstrom, Ernest J., Attleboro, Mass. Pocket comb. No. 1,414,042; Apr. 25.
- Raab, Frederick C. (See Nixon, G. C., and Raab.)
- Rabb, Pink C., Stockton, Calif. Envelope. No. 1,433,653; Oct. 31.
- Rabe, Otto. (See Turner, Samuel J., assignor.)
- Rabe, Otto, et al., executors. (See Turner, Samuel J.)
- Raber, Harry C., assignor of one-half to W. R. Barker. Vanzant, Mo. Lock switch. No. 1,408,396; Feb. 28.
- Rabinovitz, Louis, Brooklyn, N. Y., assignor to Ellis-Foster Company, Comarone resin and making same. No. 1,416,062; May 16.
- Rabinowitz, Louis M., New York, N. Y. Eye for garments. No. 1,425,897; Aug. 15.
- Rabold, George, Sr., McKeesport, assignor to National Tube Company, Pittsburgh, Pa. Manufacture of seamless tubes. No. 1,412,195; Apr. 11.
- Raboni, Eduardo, New York, N. Y. Electric bell. No. 1,427,548; Aug. 29.
- Rabow, Louis, Berlin, Germany. Playing cards. No. 1,437,680; Dec. 5.
- Rachmil, Robert. (See Winderman, A. A. L., and Rachmil.)
- Rackham, George J. (See Reddaway, F., and Rackham.)
- Racine Dispensing Manufacturing Company. (See Hanson, Sigvort, assignor.)
- Racine, Paul F. A., Marseille, France. Apparatus for storing and distributing dangerous liquids. No. 1,432,619; Oct. 17.
- Rackham, George J., assignor to Roadless Traction, Limited, London, England. Track for endless-track vehicles. No. 1,434,630; Nov. 7.
- Rackham, George J., Putney, assignor to Roadless Traction Limited, London, England. Means for transmitting rotary motion especially suitable for endless-track vehicles. No. 1,436,604; Nov. 21.
- Rackham, George J., Putney, London, assignor to Roadless Traction Limited, London, England. Track for endless-track vehicles. No. 1,440,243; Dec. 26.
- Rackle, George L., Cleveland, Ohio. Reinforced-concrete wall construction. No. 1,404,647; Jan. 24.
- Rada, Karel E., Oak Park, Ill. Hub cap for disk wheels. No. 1,410,506; Mar. 21.
- Radcliffe, Fred, Philadelphia, Pa. Eyeglass-temple holder. No. 1,418,170; May 30.
- Radcliffe, Fred, Philadelphia, Pa. Car journal bearing and lubricating means therefor. No. 1,426,102; Aug. 15.
- Radcliffe, Fred, Philadelphia, Pa. Rotary brush. No. 1,431,329; Oct. 10.
- Radcliffe, Owen F., Los Angeles, Calif. Zinc-oxide adhesive plaster. No. 1,428,495; Sept. 5.
- Radechovsky, Frank, assignor of one-half to F. E. Lins, Milwaukee, Wis. Bundie tier. No. 1,407,481; Feb. 21.
- Radelet, Fernand, and E. Bonnet, Brussels, Belgium. Spike and screw for rails. No. 1,430,259; Sept. 26.
- Radelet, Fernand, and E. Bonnet, Brussels, Belgium. Spike for rails. No. 1,437,551; Dec. 5.
- Rademacher, August. (See Siepmann, A., and Rademacher.)
- Rademackers, William H., Newark, N. J. Apparatus for disinfecting books, etc. No. 1,412,370; Apr. 11.
- Raden, Max. (See Pollock, Samuel W., assignor.)
- Rader, August C., Reading, Mass. Toy building block. No. 1,420,748; June 27.
- Rader, August C., Reading, Mass. Window-curtain fixture. No. 1,433,227; Oct. 24.
- Rader, Cranston B. (See Howell, W. Q., and Rader.)
- Radford, Alphonse H., Philadelphia, Pa. Calculating device. No. 1,410,119; Mar. 21.
- Radford, Douglas R., Los Angeles, Calif. Retread for tires and making them. No. 1,426,672; Aug. 22.
- Radford, George S., assignor, by mesne assignments, to Central Union Trust Company of New York, New York, N. Y. Color-matching room. No. 1,423,882; July 25.
- Radford, Mary A., Oakland, Calif. Apparatus for treatment of the feet. No. 1,430,404; Sept. 26.
- Radimak, Steven, New York, N. Y. Brushing and polishing machine. No. 1,417,768; May 30.
- Radio Corporation of America. (See Goldsmith, Alfred N., assignor.)
- Radio Corporation of America. (See Nottage, William H., assignor.)
- Radio Corporation of America. (See Round, H. J., and Wright, assignors.)
- Radio Corporation of America. (See Waterman, Frank N., assignor.)
- Radio Corporation of America. (See Weagant, Roy A., assignor.)
- Radio Corporation of America. (See Wright, George M., assignor.)
- Radio Instrument Company. (See Lowell, Percival D., assignor.)
- Radium Chemical Company. (See Cameron, William H., assignor.)
- Radium Company of Colorado, Inc., The. (See Schlesinger, William A., assignor.)
- Radium Dial Company. (See Erdle, Reinor W., assignor.)
- Radlein, Albert L., and C. G. Nelson, Chicago, Ill.; said Radlein assignor to said Nelson. Book-holding attachment. No. 1,432,620; Oct. 17.
- Radley, Guy R., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Measuring device. No. 1,410,120; Mar. 21.
- Radley, Guy R., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Circuit interrupter. No. 1,437,617; Dec. 5.
- Radovich, John C., Los Angeles, Calif. Speed-regulating device for vehicles. No. 1,410,348; Mar. 21.
- Radtke, Julius F., Chicago, Ill. Automatic calendar. No. 1,439,120; Dec. 19.
- Radu, John W., assignor to Western Electric Company, Incorporated, New York, N. Y. Leading-in conductor. No. 1,426,771; Aug. 22.
- Raduhn, Ernest. (See Terenzi, A. F., and Raduhn.)
- Raettig, Bruno, Cologne-Lindenthal, Germany. Plug and socket contact. No. 1,418,171; May 30.
- Raff, Harry, Chicago, Ill., assignor of one-half to N. J. Steinau, Louisville, Ky. Advertising display sign and the like. No. 1,437,194; Nov. 28.
- Raffel, Adolph, assignor of one-half to M. E. McCallum, Louisville, Ky. Belt. No. 1,410,273; Mar. 21.
- Rafferty, William F., Toronto, Ontario, Canada. Brake mechanism. No. 1,427,326; Aug. 29.
- Rafferty, William V., assignor to General Chain Company, Providence, R. I. Chain-curling machine. No. 1,437,862; Dec. 5.
- Raffovich, Harry, Buffalo, N. Y. Tire mold. No. 1,432,901; Oct. 24.
- Raffovich, Harry, Buffalo, N. Y., assignor, by mesne assignments, to Slohm Tire & Mould Co., Inc. Tire mold. No. 1,425,693; Aug. 15.
- Rafsky, Harold R., Roxbury, Mass. White pigment. No. 1,415,391; May 9.
- Rafferty, William J., Berkeley, assignor to Standard Oil Company of California, San Francisco, Calif. Testing machine. No. 1,421,562; July 4.
- Ragan, Frederick H., Cleveland, Ohio. Gear-shift mechanism. No. 1,432,902; Oct. 24.
- Ragan, Louis A., St. Louis, Mo. Combined automobile tail light and State-license-plate holder. No. 1,415,116; May 9.
- Ragenovich, Dano P., San Francisco, Calif. Double-circuit push-button switch. No. 1,439,839; Dec. 26.

- Rager, Harvey W., Ponca, Nebr. Harness hook. No. 1,422,128; July 11.
- Raggio, Dante A., Chicago, Ill. Locking means. No. 1,421,563; July 4.
- Ragonesi, Salvatore. (See Bummara, A., and Ragonesi.)
- Ragounet, Eugene L., Miami, Fla., assignor to Air Reduction Company, Inc. Blowpipe. No. 1,417,628; May 30.
- Ragsdale, Archer C., Creal Springs, Ill. Bank-protection device. No. 1,431,755; Oct. 10.
- Ragsdale, Charles R., St. Louis, Mo. Plural-stream-distributing attachment for soda-water draft arms. No. 1,408,397; Feb. 28.
- Ragsdale, Raymond, Porterville, Calif. Shock absorber. No. 1,427,327; Aug. 29.
- Ragsdale, Raymond, Porterville, Calif. Shock absorber. No. 1,427,414; Aug. 29.
- Rahmeyer, Franz P. (See Rahmeyer, George A. and F. P.)
- Rahmeyer, George A. and F. P., Ansley, Nebr. Automatic carrier. No. 1,405,718; Feb. 7.
- Rahn, Arthur J., et al. (See Larson, Hiram A., assignor.)
- Rahn, George C., Erie, Pa. Metal-melting furnace. No. 1,403,265; Jan. 10.
- Rahr, Maximilian, Jr., Manitowoc, Wis. Storage sling for vehicle side curtains. No. 1,409,239; Mar. 14.
- Rahr, Maximilian, Jr., Manitowoc, Wis. Vehicle quarter curtain. No. 1,428,708; Sept. 12.
- Rahr, Maximilian, Jr., Manitowoc, Wis. Vehicle curtain. No. 1,428,709; Sept. 12.
- Raiber, Charles E., Salamanca, N. Y. Jack for journal boxes. No. 1,409,024; Mar. 7.
- Raible, John R., assignor to The Greif Brothers Cooperage Company, Cleveland, Ohio. Barrel. No. 1,423,254; July 18.
- Raibourn, Paul A., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical transmission systems. No. 1,413,357; Apr. 18.
- Raich, Anthony, Kemmerer, Wyo. Gear-shift indicator. No. 1,427,415; Aug. 29.
- Raich, Anthony, Kemmerer, Wyo. Lunch pail. No. 1,434,314; Oct. 31.
- Raiff, Harry L. (See Stubkjare, J. A., and Raiff.) (Re-issue.)
- Rail Joint Company, The. (See Braine, Bancroft G., assignor.)
- Rail Joint Company, The. (See Disbrow, Clarkson A., assignor.)
- Railroad Accessories Corporation. (See Lavarack, Frederick C., assignor.)
- Railroad Accessories Corporation. (See Willis, LeRoy W., assignor.)
- Railroad Supply Company, The. (See Lull, Frank E., assignor.)
- Railway Electric Manufacturing Co. (See Gnifke, Paul, assignor.)
- Railway and Industrial Engineering Company. (See Getchell, Benjamin E., assignor.)
- Railway Lock-Spike Company. (See Harris, Hubert E., assignor.)
- Railway Safety Switch Lock Company. (See Franklin, Walter H., assignor.)
- Raimbert, Louis E., Paris, France. Sand filter. No. 1,410,121; Mar. 21.
- Rainalter, Rudolph, Kansas City, Mo. Washing machine. No. 1,430,322; Sept. 26.
- Rainbow Picture Corporation. (See Shaw, Joseph, assignor.)
- Rainey, Lilius B. (See Jennings, Phillip S., assignor.)
- Rainey, Paul M., West Hoboken, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,407,042; Feb. 21.
- Rainey, William J., Philadelphia, Pa. Church communion tray and filling device. No. 1,416,126; May 16.
- Rainey-Wood Coke Company. (See Tiddy, William, assignor.)
- Rains, Solomon B., Brooklyn, N. Y. Making stockings. No. 1,417,347; May 23.
- Rairden, John J., Brooklyn, N. Y. Sediment remover. No. 1,438,723; Dec. 12.
- Rait, George B., Minneapolis, Minn. Combined intake and exhaust manifold. No. 1,431,896; Oct. 10.
- Raiziss, George W. (See Schamberg, J. E., and Raiziss.)
- Raja, Angelo G., Chicago, Ill. Wheel. No. 1,405,329; Jan. 31.
- Rajet Company. (See Byers, Joseph J., assignor.)
- Rall, Hans R., Chicago, Ill. Railway switch. No. 1,407,219; Feb. 21.
- Ralph, James S., Sullivan, Mo. Motorman's stool. No. 1,417,565; May 30.
- Ralph, Thomas L., Bridgeport, Conn., assignor, by mesne assignments, to H. Bobker, New York, N. Y. Electrical water heater. No. 1,417,409; May 23.
- Ralph, Walter M., and L. H. Flett, Buffalo, assignor to National Aniline & Chemical Company, New York, N. Y. Production of disazo dye. No. 1,415,704; May 9.
- Ralston, Oliver C., Niagara Falls, assignor to Hooker Electrochemical Company, New York, N. Y. Treating brass scrap. No. 1,402,015; Jan. 3.
- Ralston, Shirley B., Glasgow, Scotland. Apparatus for graphically ascertaining the stability and trim of ships under assumed loads. No. 1,426,103; Aug. 15.
- Ram, John H., Jersey City, N. J., assignor of one-half to E. E. Elder, Brooklyn, N. Y. Oil and grease deflector. No. 1,417,410; May 23.
- Ramage, Alexander S., et al, trustees. (See Ramage, Alexander S., assignor.)
- Ramage, Alexander S., Detroit, Mich., assignor to Chemical Research Syndicate Ltd. Production of low-boiling-point saturated hydrocarbons from heavy hydrocarbon oils. No. 1,403,194; Jan. 10.
- Ramage, Alexander S., assignor, by mesne assignments, to Bostaph Engineering Corporation, Detroit, Mich. Treating hydrocarbon oils. No. 1,407,770; Feb. 28.
- Ramage, Alexander S., assignor to F. F. Beal; said A. S. Ramage and B. Briscoe, Detroit, Mich., trustees, known as Chemical Research Syndicate, Ltd. Motor fuel. No. 1,409,404; Mar. 14.
- Ramage, Alexander S., assignor to Bostaph Engineering Corporation, Detroit, Mich. Producing aromatic hydrocarbons. No. 1,430,585; Oct. 3.
- Ramage, Alexander S., Detroit, Mich., assignor to F. F. Beal, F. L. Klingensmith, and said Alexander S. Ramage, trustees, known as The Sugar Research Syndicate, Ltd. Recovering litharge from sugar residues. No. 1,433,034; Oct. 24.
- Ramage, Alexander S., assignor to International Color & Chemical Company, Incorporated, Detroit, Mich. Recovering sucrose from solutions. No. 1,433,654; Oct. 31.
- Ramage, Alexander S., assignor to International Color & Chemical Company, Incorporated, Detroit, Mich. Recovering sucrose from solutions. No. 1,433,655; Oct. 31.
- Ramage, Alexander S., assignor to F. F. Beal, A. S. Ramage, and B. Briscoe, Detroit, Mich., trustees, known as Chemical Research Syndicate, Ltd. Conversion of aromatic ring compounds into motor spirit. No. 1,439,976; Dec. 26.
- Ramage, Thomas, The Pas, Manitoba, Canada. Automobile appliance. No. 1,424,942; Aug. 8.
- Ramberg, John H., Chicago, Ill. Sash holder. No. 1,409,573; Mar. 14.
- Rambo, Joseph F., Pomona, Calif., assignor of one-half to R. A. Schmitt, San Diego, Calif. Conduit coupling. No. 1,422,374; July 11.
- Rambusch Decorating Company. (See Rambusch, Harold W., assignor.)
- Rambusch, Harold W., Brooklyn, assignor to Rambusch Decorating Company, New York, N. Y. Means of lighting churches. No. 1,412,541; Apr. 11.
- Ramer, Jacob B., Chambersburg, Pa. Equalizing and steering gearing for motor vehicles. No. 1,424,118; July 25.
- Ramion, Pauline M., et al. (See Ramion, Peter J., assignor.)
- Ramion, Peter J., assignor to B. Hansen and P. M. Ramion, Syracuse, N. Y. Automatic railway-switch-operating mechanism. No. 1,439,977; Dec. 26.
- Ramo Manufacturing Company, The. (See McCarthy, Edward F., assignor.)
- Ramsaier, William J., New York, N. Y. Ink distributor. No. 1,415,480; May 9.
- Ramsay, Allan. (See Jackson, Thomas, assignor.)
- Ramsay, Clarence E., Palmer, Oreg. Spark arrester. No. 1,433,035; Oct. 24.
- Ramsay Condensing Locomotive Company. (See Ramsay, David M., assignor.)
- Ramsay, David M., assignor to The Ramsay Condensing Locomotive Company Limited, Glasgow, Scotland. Aircraft. No. 1,431,683; Oct. 10.
- Ramsay, Erskine, Birmingham, Ala. Automatic rolling dump. No. 1,425,051; Aug. 8.
- Ramsay, Ethan T., Reading, Pa. Dirigible headlight for motor vehicles. No. 1,428,859; Sept. 12.
- Ramsay, Frederic, Elgin, Ill. Heel attachment. No. 1,403,523; Jan. 17.
- Ramsay, Gordon A., administrator. (See Jester, Marvin H.)
- Ramsburg, Charles J., assignor to The Koppers Company, Pittsburgh, Pa. Gas-purification process. No. 1,436,196; Nov. 21.
- Ramsdell, Frederick M., Worcester, Mass. Wire-coiling device. No. 1,417,629; May 30.
- Ramsdell, Guy A., administrator. (See Miller, Duncan.)
- Ramsdell, James W., Lakeland, and F. C. Wiest, Tampa, Fla. Water-closet attachment. No. 1,430,586; Oct. 3.
- Ramsdell, Philip H., Worcester, Mass. Moving-picture machine. No. 1,404,648; Jan. 24.
- Ramsey, Clifford H., Glen Rock, N. J. Mangle. No. 1,409,405; Mar. 14.
- Ramsey, Elmer R., Denver, and A. L. Blomfield, Colorado Springs, Colo., assignors to The Dorr Company, New York, N. Y. Automatic feed control. No. 1,413,934; Apr. 25.
- Ramsey, Elmer R., Denver, and A. L. Blomfield, Colorado Springs, Colo., assignors to The Dorr Company, New York, N. Y. Automatic feed control. No. 1,413,935; Apr. 25.
- Ramsey, Frank, Shelbyville, Ky. Plow. No. 1,408,031; Feb. 28.
- Ramsey, George, assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Method and apparatus for sealing containers. No. 1,405,738; Feb. 7.
- Ramsey, George, Brooklyn, N. Y. Projectile. No. 1,426,907; Aug. 22.
- Ramsey, John T., Roanoke, Va. Internal-combustion engine. No. 1,429,164; Sept. 12.
- Ramsey, Joseph H., assignor to Albany Machine and Tool Company, Albany, N. Y. Glare shield. No. 1,413,683; Apr. 25.

Alphabetical list of patentees—Continued.

- Ramsey, Julian A., and E. R. de Money, Washington, Pa. Washing or fixing tank. No. 1,439,328; Dec. 19.
- Ramsey, Lewis F., Kansas City, Mo. Tile. No. 1,413,684; Apr. 25.
- Ran W. Hat Shop Inc. (See Mitchell, Andrew W., assignor.)
- Rancour, Alphonse, Fife Lake, Mich. Sash holding and locking device. No. 1,433,415; Oct. 24.
- Rand, Benjamin G., North Tonawanda, N. Y. Card-index cabinet. No. 1,407,948; Feb. 28.
- Rand, Frank R., London, and T. H. Sanders, Sheffield, England. Coupling for railway and other vehicles. No. 1,419,757; June 13.
- Rand, Homer S., Plainville, Kans. Gate. No. 1,428,904; Sept. 12.
- Rand, James H., North Tonawanda, N. Y. Memorandum device. No. 1,408,469; Mar. 7.
- Rand, James H., North Tonawanda, N. Y. Index. No. 1,418,466; June 6.
- Rand, James H., North Tonawanda, N. Y. Index. No. 1,418,467; June 6.
- Rand, James H., North Tonawanda, N. Y. Index tab. No. 1,427,549; Aug. 29.
- Rand, James H., North Tonawanda, N. Y. Index element. No. 1,428,298; Sept. 5.
- Rand, James H., jr., North Tonawanda, N. Y. Record cabinet. No. 1,429,628; Sept. 19.
- Rand, James H., North Tonawanda, N. Y. Sheath for index cards. No. 1,432,036; Oct. 17.
- Rand, James H., jr., North Tonawanda, N. Y. Index or display device. No. 1,435,081; Nov. 7.
- Rand, James H., jr., and V. F. King, assignors to American Cardex Co. Inc., Tonawanda, N. Y. Cabinet. No. 1,429,627; Sept. 19.
- Randall, Alonzo U., Springfield, Ohio. Alloy. No. 1,417,348; May 23.
- Randall, Arthur F., Shreveport, La. Automobile storm curtain. No. 1,409,968; Mar. 21.
- Randall, Arthur F., Shreveport, La. Automobile storm curtain. No. 1,421,716; July 4.
- Randall, Charles E., J. T. Clark, and J. T. Smith, assignors to Superior Damper Company, Springfield, Mass. Damper. No. 1,408,223; Feb. 28.
- Randall, Chester J., Naugatuck, Conn., assignor to The Goodyear's Metallic Rubber Shoe Company. Preparation of and the mixing of pigments with rubber and the like. No. 1,405,439; Feb. 7.
- Randall, Chester J., Naugatuck, Conn., assignor to The Goodyear's Metallic Rubber Shoe Company. Machine for cutting disks from sheet material. No. 1,431,541; Oct. 10.
- Randall, Chester J., and R. B. Taylor, Naugatuck, Conn., assignors to The Goodyear's Metallic Rubber Shoe Company. Solidifying pulverulent material. No. 1,405,440; Feb. 7.
- Randall, Chester J., and E. C. Pierce, Naugatuck, Conn., assignors to The Goodyear India Rubber Glove Manufacturing Company. Making water bottles and apparatus therefor. No. 1,434,407; Nov. 7.
- Randall, Edison E., assignor, by mesne assignments, to Pope Machine Company, Kankakee, Ill. Knitting machine and method of knitting. No. 1,435,736; Nov. 14.
- Randall, Edward E., Prides Crossing, Mass. Display stand. No. 1,406,893; Feb. 14.
- Randall, Ernest J., Utica, Minn. Automatic release coupling. No. 1,409,776; Mar. 14.
- Randall, James W. H., New York, N. Y. Rotary retort. No. 1,413,779; Apr. 25.
- Randall, Karl C., Edgewood, and H. A. Travers, Wilkesburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Conductor for electric furnaces. No. 1,435,256; Nov. 14.
- Randals, Tullus A., Pecos, Tex. Nut lock. No. 1,426,319; Aug. 15.
- Randecker, Leonard E., Erie, Pa. Pulp beater. No. 1,431,422; Oct. 10.
- Randle, Wilbert L., Flint Stone, Md. Antiskid means for automobile wheels. No. 1,420,667; June 27.
- Randles, George E., Cleveland, Ohio, assignor, by mesne assignments, to The Foote-Burt Company. Wringer. No. 1,411,743; Apr. 4.
- Randles, George E., Cleveland, Ohio, assignor, by mesne assignments, to The Foote-Burt Company. Wringer. No. 1,411,744; Apr. 4.
- Randlett, Willie O., Richmond, Va., assignor of one-half to C. B. Buchanan. Device for cleaning flume gratings. No. 1,420,283; June 20.
- Randlett, Willie O., Richmond, Va., assignor of one-half to C. B. Buchanan. Device for cleaning flume gratings. No. 1,429,629; Sept. 19.
- Randol, Glenn T., Marmaduke, assignor of fifty per cent to S. S. Steinberg, Paragould, Ark. Mechanical gear shift. No. 1,419,518; June 13.
- Randolph, Clifford F. (See Greenleaf, G. E., and Randolph.)
- Randolph, Iva M. (See Randolph, William J., assignor.)
- Randolph, Samuel W. (See Oskosh, Roy, assignor.)
- Randolph, William J., assignor to I. M. Randolph, Buffalo, N. Y. Container. No. 1,439,329; Dec. 19.
- Raney, Clemma R., and R. B. Hitchcock, Chicago, Ill., assignors to International Harvester Company. Adjustable straw conveyor. No. 1,426,908; Aug. 22.
- Raney, Norman A., Toronto, Ontario, Canada. Rope grip. No. 1,438,261; Dec. 12.
- Rankin, Austin H., Stoy, Ill. Auto skid-chain hook. No. 1,427,848; Sept. 5.
- Rankin, Frank E., Cambridge, Mass., assignor to Troy Laundry Machinery Company, Ltd., Chicago, Ill. Method of and apparatus for processing starch. No. 1,411,934; Apr. 4.
- Rankin, J. A. (See Newman, Albert T., assignor.)
- Rankin, Morris S., Mount Ephraim, N. J. Sound reproducer. No. 1,430,185; Sept. 26.
- Ranko, Joseph M., New York, N. Y. Shoe heel. No. 1,418,094; May 30.
- Rankow, Norman N., New York, N. Y. Paint. No. 1,436,356; Nov. 21.
- Rannfeld, Otto, Sherwood, assignor of one-fourth to R. F. Halbert, San Angelo, Tex. Insect destroyer. No. 1,402,960; Jan. 10.
- Rannie, George A. (See Paterson, W., and Rannie.)
- Ransdell, Robert W., San Diego, Calif. Combination magneto contact and oil conductor for engine crank cases. No. 1,429,454; Sept. 19.
- Ransohoff, Nathan, Cincinnati, Ohio. Tumbling barrel. (Reissue.) No. 15,498; Nov. 28.
- Ransome Concrete Machinery Company. (See Faber, John P., assignor.)
- Ransome Machinery Company (1920) Limited. (See Webb, J. R., and Blakemore, assignors.)
- Rantsch, Edward J., Brooklyn, N. Y. Axle mounting for motor vehicles. No. 1,426,009; Aug. 15.
- Rantz, Ervin J., Fort Wayne, Ind. Chiropractic table. No. 1,439,445; Dec. 19.
- Rapatoni, Ventura, near Chino, assignor of one-half to J. Ingersoll, Los Angeles, Calif. Grouser for tractor wheels. No. 1,403,195; Jan. 10.
- Rapeport, William H., Philadelphia, Pa. Fender attachment for automobiles or other vehicles. No. 1,428,116; Sept. 5.
- Rapeport, William H., Philadelphia, Pa. Bumper or fender for autos, etc. No. 1,436,682; Nov. 28.
- Raper, Howard R., Albuquerque, N. Mex. X-ray angle indicator. No. 1,408,777; Mar. 7.
- Raper, Howard R., Albuquerque, N. Mex. X-ray angle indicator. No. 1,408,778; Mar. 7.
- Raphael, Reginald D. (See Wisroth, Ernest, assignor.)
- Rapp, Axel G. J., assignor to Link-Belt Company, Chicago, Ill. Sugar-beet-cleaning screen. No. 1,431,684; Oct. 10.
- Rapp, Fred, West Albany, N. Y. Adjustable backing for rail braces. No. 1,426,772; Aug. 22.
- Rapp, Henry, Hilton, N. J. Tobacco pipe. No. 1,433,228; Oct. 24.
- Rapp, John W., Flushing, and J. Vanorio, Brooklyn, N. Y.; said Vanorio assignor to said Rapp. Airplane wing construction. No. 1,403,444; Jan. 10.
- Rapp, Samuel, London, Ohio. Railway tie. No. 1,420,749; June 27.
- Rappas, Pete. (See De Stefano, Jacob, assignor.)
- Rappelle, Theresa M., Bridgeport, Conn. Sanitary tray for high chairs. No. 1,420,061; June 20.
- Rappez, Nicolas, Haine St. Pierre, Belgium. Molding machine. No. 1,416,976; May 23.
- Rapson, Frederick L., Liverpool, England. Means for securing wheels on motor road and other vehicles. No. 1,409,777; Mar. 14.
- Rapson, Frederick L., Liverpool, England. Resilient wheel for vehicles. No. 1,413,189; Apr. 18.
- Rapson, Frederick L., Liverpool, England. Resilient wheel for vehicles. No. 1,413,190; Apr. 18.
- Rasch, Ludvik, Christiania, Norway. Indicator of speed for centrifugal separators. No. 1,428,905; Sept. 12.
- Rasche, Paul, U-Barmen, assignor to F. Kewinghaus, Barmen, Germany. Braiding machine. No. 1,428,059; Sept. 5.
- Raschick, Charles T., St. Paul, Minn. Combined pad holder and ticket punch. (Reissue.) No. 15,270; Jan. 17.
- Raschick, Charles T., St. Paul, Minn. Ticket holder and cutter. No. 1,412,893; Apr. 18.
- Rasck, George P., and L. Weeks, Des Moines, Iowa. Carton-filling machine. No. 1,411,514; Apr. 4.
- Rasely, Warren M., Worcester, Mass. Educational toy blocks. No. 1,403,196; Jan. 10.
- Rasmesen, George, Jr., Winnetka, Ill. Brush and making same. No. 1,405,938; Feb. 7.
- Rasmussen, Lorence S., and H. B. Carlson, Davenport, Iowa. Lap. No. 1,428,658; Sept. 12.
- Rasmussen, Alfred B., Walnut, Iowa. Oil gauge. No. 1,407,220; Feb. 21.
- Rasmussen, Alvin C. (See Insley, W. H., and Rasmussen.)
- Rasmussen, Alvin C., and C. G. Schmid, assignors to Insley Manufacturing Company, Indianapolis, Ind. Hoisting apparatus. No. 1,428,906; Sept. 12.
- Rasmussen, Carl, Glendale, Wis. Mop. No. 1,403,916; Jan. 17.
- Rasmussen, Clarence H., Valley Junction, Iowa. Knock-down structure. No. 1,437,195; Nov. 28.
- Rasmussen, Harry A., Los Angeles, Calif. Light deflector. No. 1,409,574; Mar. 14.
- Rasmussen, Peter, assignor of one-half to S. Knight, Denver, Colo. Mechanism for transferring pans or other objects from one conveyor to an oppositely moving conveyor. No. 1,414,667; May 2.

- Rasmussen, Peter, assignor of one-half to S. Knight, Denver, Colo. Pan-dumping apparatus for cake and cracker conveyers. No. 1,415,392; May 9.
- Rasmussen, Robert F., assignor to C. A. Libbey Company, Oshkosh, Wis. Carrier. No. 1,430,186; Sept. 26.
- Rassmann, F., Manufacturing Company. (See Rassmann, Hugo C., assignor.)
- Rassmann, Hugo C., assignor to F. Rassmann Manufacturing Company, Beaver Dam, Wis. Watering device for cattle. No. 1,402,653; Jan. 3.
- Rassmann, Hugo C., assignor to F. Rassmann Manufacturing Company, Incorporated, Beaver Dam, Wis. Watering device for cattle. No. 1,402,654; Jan. 3.
- Rassmann, Hugo C., assignor to F. Rassmann Manufacturing Company, Beaver Dam, Wis. Supporting and aligning means for stanchions. No. 1,404,057; Jan. 17.
- Rassmann, Hugo C., assignor to F. Rassmann Manufacturing Company, Beaver Dam, Wis. Watering device for cattle. No. 1,406,490; Feb. 14.
- Rassmann, Hugo C., assignor to F. Rassmann Mfg. Co., Beaver Dam, Wis. Aligning means for stanchions. No. 1,415,117; May 9.
- Rassmann, Hugo C., assignor to F. Rassmann Manufacturing Company, Inc., Beaver Dam, Wis. Watering device for cattle. No. 1,417,688; May 30.
- Rastetter, William C., Fort Wayne, Ind. Steering wheel. No. 1,420,446; June 20.
- Rastetter, William C., Fort Wayne, Ind. Steering wheel. No. 1,437,196; Nov. 28.
- Rasulis, Samuel, Chicago, Ill. Pencil. No. 1,409,406; Mar. 14.
- Ratajczak, Thomas F., assignor to The Hobart Manufacturing Company, Troy, Ohio. Automatic release. No. 1,406,491; Feb. 14.
- Ratajczak, Felix F. (See Sworski, S. F., and Ratajczak.)
- Ratcliff, C. V., et al. (See Wyssong, Bennett C., assignor.)
- Ratcliff, Ernest R. (See Bryant, William T., assignor.)
- Ratcliff, Walter W., Glidden, Iowa. Glass cutter. No. 1,402,961; Jan. 10.
- Rateau Battu Smoot Engineering Corporation. (See Caracristi, V. Z., and Smoot, assignors.)
- Ratel, Maurice, New York, N. Y. Automatic stoker of the underfeed type. (Reissue.) No. 15,402; Sept. 26.
- Rath, John, Bayonne, N. J. Spindle lock. No. 1,432,621; Oct. 17.
- Rath, Joseph J., assignor to The Available Truck Company, Chicago, Ill. Leaf-spring connection. No. 1,423,255; July 18.
- Rathbone, David H., Los Angeles, Calif. Meter. No. 1,406,682; Feb. 14.
- Rathbun, Edgar A., Pontiac, Mich. Vehicle top. No. 1,427,328; Aug. 29.
- Rathbun, George C. (See Starkey, R. P., and Rathbun.)
- Rathbun, Sherrill S., and O. P. Liebreich, Brooklyn, N. Y. Telescopic hoist. No. 1,437,681; Dec. 5.
- Rathbun, Whitman C., New Rockford, N. Dak. Push-button trip lever for low closet tanks. No. 1,420,948; June 27.
- Rathman, Gilbert, assignor of two-fifths to J. A. Brown and one-fifth to W. Hodekinson, New York, N. Y. Coffee percolator. No. 1,405,939; Feb. 7.
- Rathsmill, Louis, Penns Grove, N. J. Dress protector. No. 1,406,225; Feb. 14.
- Ratkovic, Frank X., Etna, Pa. Planting machine. No. 1,405,866; Feb. 7.
- Ratkovic, Frank X., Etna, Pa. Combination table and ladder. No. 1,408,398; Feb. 28.
- Ratner, Ezra, San Francisco, Calif. Lock. No. 1,402,962; Jan. 10.
- Rattan, Carrie S., San Francisco, Calif. Garment hanger. No. 1,422,782; July 11.
- Rattan Mfg. Co., The. (See Hatheway, George L., assignor.)
- Ratz, Edward J. (See Harlan, Frederick T., assignor.)
- Ratz, John, Fort Howard, Md. Bolting-up device. No. 1,405,739; Feb. 7.
- Ratzburg, Victor P., Newton, Mass., assignor, by mesne assignments, to Barrell Holding and Manufacturing Company, Portland, Me. Armor for vehicle tires. (Reissue.) No. 15,386; June 13.
- Ratzburg, Victor P., Newton, Mass., assignor, by mesne assignments, to Barrell Holding and Manufacturing Company, Portland, Me. Armor for vehicle tires. (Reissue.) No. 15,387; June 13.
- Rau, Henry V., Brooklyn, N. Y. Hook and eye. No. 1,407,482; Feb. 21.
- Rau, Henry V., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Marking button. No. 1,407,085; Feb. 21.
- Rauch, Gabriel. (See Vernet, C., and Rauch.)
- Rauch, Peter, Beloit, Kans. Beef tree or butcher's gambrel. No. 1,413,780; Apr. 25.
- Rauch, Samuel A., New York, N. Y. Hand stamp. No. 1,431,842; Oct. 10.
- Rauchbach, Joseph, Newark, N. J. Wardrobe trunk. No. 1,416,415; May 16.
- Raugstad, Thor, Sandness, near Stavanger, Norway. Rotary engine. No. 1,415,393; May 9.
- Raulerson, Harmon L. (See Thibodeaux, S. J., and Raulerson.)
- Raus, John, assignor to The Ohio Instrument Manufacturing Company, Cleveland, Ohio. Electrical connector. No. 1,418,468; June 6.
- Rauscher, Edward P., Pittsburgh, Pa. Winch. No. 1,413,292; Apr. 18.
- Rausse, Antonio, Northvale, N. J. Attachment for pruning shears. No. 1,426,214; Aug. 15.
- Rautenstrauch, William, Trier, Germany. Unhairing skins and hides. No. 1,435,876; Nov. 14.
- Rauth, Paul A., Boonville, Ind. Fly-paper, holder. No. 1,431,843; Oct. 10.
- Rauwald, John. (See Rauwald, Joseph J. and J.)
- Rauwald, Joseph J. and J., Milwaukee, Wis. Wall safe. No. 1,404,480; Jan. 24.
- Ravert, William I., assignor to A. W. Drake Manufacturing Co., Hazleton, Pa. Miniature fence. No. 1,426,215; Aug. 15.
- Ravenelle, Adelard E., Norwich, Conn. Lay-mark preventer. No. 1,409,778; Mar. 14.
- Ravner, Oystein. (See Goldschmidt, V. M., and Ravner.)
- Rawling, Alden W., San Francisco, assignor to G. D. Bobo, Fairmead, Calif. Vise. No. 1,430,260; Sept. 26.
- Rawlings, Arthur D., Clapham, London, and E. J. Rawlings, Batham, London, England. Automatic sash-raising mechanism. No. 1,426,104; Aug. 15.
- Rawlings, Ernest J. (See Rawlings, Arthur D. and E. J.)
- Rawlings, John J., assignor of one-half to The Rawplug Company Limited, South Kensington, London, England. Manufacture of tubular wall plugs from string or like material. No. 1,421,306; June 27.
- Rawlings, John J., assignor of one-half to The Rawplug Company Limited, London, England. Plug or socket for receiving screws or like fastenings. No. 1,438,855; Dec. 12.
- Rawlings Mfg. Co. (See Whitley, William P., assignor.)
- Rawlings, Samuel J., Kearny, N. J. Door holder. No. 1,431,040; Oct. 3.
- Rawlins, Elbert V., Appleton City, Mo. Emergency cross chain. No. 1,409,025; Mar. 7.
- Rawlplug Company Limited, The. (See Rawlings, John J., assignor.)
- Rawls, Walter O., Fort Sill, Okla. Combined cabinet and rack. No. 1,409,026; Mar. 7.
- Rawson, Homer E., assignor to Richardson Rod and Reel Company, Chicago, Ill. Fishing reel. No. 1,430,753; Oct. 3.
- Rawson, Myron R., Spokane, Wash. Log-turning mechanism. No. 1,426,409; Aug. 22.
- Rawson, Philip N., Gananoque, Ontario, Canada. Vehicle chassis. No. 1,437,911; Dec. 5.
- Rawsthorne, Robert, jr. (See Kinzler, Edward F., assignor.)
- Ray, Albert D., Cleveland, Ohio. Tractor. No. 1,416,753; May 23.
- Ray Bros. Corporation. (See Ray, Thomas and J. R., assignors.)
- Ray, Charles T., assignor to B. F. Avery and Sons, Louisville, Ky. Ridge breaker. No. 1,412,135; Apr. 11.
- Ray, Charles T., assignor to B. F. Avery & Sons, Louisville, Ky. Detachable plowshare securing means. No. 1,412,258; Apr. 11.
- Ray, Frederick, Greenwich, Conn. Packing ring. No. 1,424,377; Aug. 1.
- Ray, George W., Atlantic City, N. J. Automobile and motor-cycle tires. No. 1,416,873; May 23.
- Ray, Joshua R. (See Ray, Thomas and J. R.)
- Ray, Robert M., Oxford, N. C. Attachment for motor vehicles. No. 1,436,530; Nov. 21.
- Ray, Ruben W. (See Lincoln, J. D., and Ray.)
- Ray, Thomas and J. R., Manistee, Mich., assignors to Ray Bros. Corporation, New York, N. Y. Vacuum apparatus. No. 1,428,557; Sept. 12.
- Ray, Walter T., Virginia Beach, Va. Calculating machine. No. 1,410,507; Mar. 21.
- Ray, William R., San Francisco, Calif. High-pressure automatic burner governor. No. 1,425,338; Aug. 8.
- Ray, William R., San Francisco, Calif. Electric motor. No. 1,427,416; Aug. 29.
- Ray, William R., San Francisco, Calif. Oil burner. No. 1,406,413; Feb. 14.
- Ray, William R., San Francisco, Calif. Automatic air and oil regulator for rotary burners. No. 1,406,414; Feb. 14.
- Raybestos Co., The. (See Simpson, Sumner, assignor.)
- Raybestos Company. (See Stanley, Frederick C., assignor.)
- Rayder, Joseph A., Philadelphia, Pa. Applicator brush. No. 1,426,909; Aug. 22.
- Rayder, Thomas, Philadelphia, Pa. Shears holder. No. 1,427,849; Sept. 5.
- Rayfield, Charles L., assignor to Beneke & Kropf Manufacturing Company, Chicago, Ill. Carburetor. No. 1,412,259; Apr. 11.
- Rayfield, Charles L., assignor to Beneke & Kropf Manufacturing Company, Chicago, Ill. Circulating system for internal-combustion engines. No. 1,418,397; June 6.
- Rayfield, Charles L., Chicago, Ill., assignor to Beneke & Kropf Manufacturing Company. Thermostatic device for cooling systems of internal-combustion engines. No. 1,421,830; July 4.
- Raymond Brothers Impact Pulverizer Company. (See Raymond, Fred L., assignor.)
- Raymond Concrete Pipe Company. (See Smith, Herman R., assignor.)
- Raymond, Everett J., Des Moines, Iowa. Heat-insulator structure for incubators, brooders, waterers, and the like. No. 1,436,458; Nov. 21.

Alphabetical list of patentees—Continued.

- Raymond, Fred I., Evanston, assignor to Raymond Brothers Impact Pulverizer Company, Chicago, Ill. Pulverizing apparatus. No. 1,434,843; Nov. 7.
- Raymond, Fred I., Evanston, assignor to Raymond Brothers Impact Pulverizer Company, Chicago, Ill. Feeding device. No. 1,437,863; Dec. 5.
- Raymond, George F., Jackson, Mich. Oil burner. No. 1,403,565; Jan. 17.
- Raymond, John, Jr., Springfield, Vt. Conveyer. No. 1,402,251; Jan. 3.
- Raymond, Prosper J., and G. Adams, Detroit, Mich. Vehicle jack. No. 1,425,542; Aug. 15.
- Raymond, Reuben, Napa, Calif. Baseball glove. No. 1,421,308; June 27.
- Raymond, Ward, assignor to Pennsylvania Pump and Compressor Co., Easton, Pa. Regulator for compressors. No. 1,402,016; Jan. 3.
- Raymond, William M., Stamford, Conn. Vehicle brake. No. 1,429,771; Sept. 19.
- Raynaud, Fernand R. G., assignor to Societe Anonyme des Etablissements Raynaud & Bourceret, Paris, France. Arrangement for instantaneous repairs of suspension springs of vehicles. No. 1,421,307; June 27.
- Rayner, Edgar S., Hornsea, England. Rail fastening. No. 1,402,655; Jan. 3.
- Rayner, Herbert, Louisville, Ky. Electric combination lock. No. 1,420,575; June 20.
- Raynor, Harold H., New York, N. Y., assignor to The Palmolive Company, Milwaukee, Wis. Vanity case. No. 1,404,058; Jan. 17.
- Raynor, William E., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Trimming mechanism for sewing machines. No. 1,428,980; Sept. 12.
- Raynsford, Arthur, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,403,866; Jan. 17.
- Re, Alfred, New York, N. Y. Lock. No. 1,432,785; Oct. 24.
- Rea, Agostino, Clearcreek, Utah. Tie plate. No. 1,434,913; Nov. 7.
- Rea, Peter E. (See Sweningson, Lawrence G., assignor.)
- Rea, Robert, San Francisco, Calif. Dehydrator for fruits, vegetables, and other foods. No. 1,410,719; Mar. 28.
- Rea-Patterson Milling Company. (See Woolcott, Alfred W., assignor.)
- Reach, George A. (See Myer, Harry A., assignor.)
- Reach, Milton B., Chicopee, Mass. Playing card. No. 1,418,020; May 30.
- Reach, Milton B., Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Golf-club head. No. 1,402,537; Jan. 3.
- Reach, Milton B., Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Golf club. No. 1,433,150; Oct. 24.
- Read, Charles, Brooklyn, N. Y. Insulating covering for pipes. No. 1,419,171; June 13.
- Read, George B., Bloomington, Ill. Grain crib. No. 1,428,710; Sept. 12.
- Read, Harry S. (See Mathes, R. C., and Read.)
- Read, Harry S., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum-tube repeater circuits. No. 1,403,566; Jan. 17.
- Read, Henry H., London, England. Packing case. No. 1,414,896; May 2.
- Read, Henry H., London, England. Packing case. No. 1,427,633; Aug. 29.
- Read, Joseph F., St. Louis, Mo. Automatic priming device. No. 1,411,183; Mar. 28.
- Read Machinery Co. (See Read, Otto R., assignor.)
- Read, Otto R., assignor to Read Machinery Co., Inc., York, Pa. Attachment for mixing machines. No. 1,438,856; Dec. 12.
- Read, Walter C., Bloomfield, N. J. Brush machine. No. 1,433,151; Oct. 24.
- Reader, Edwin S. (See Hanna, Henry O., assignor.)
- Reading, Frederick, Jr., Princeton, Ontario, Canada. Gate. No. 1,409,468; Mar. 14.
- Reading, George M., Breckenridge, Tex. Portable apparatus for supporting, cutting off, and rethreading oil casings. No. 1,437,552; Dec. 5.
- Reakes, Lyburn E. (See Zabel, W. P., and Reakes.)
- Realing, Joseph M., Daytona, Fla. Amusement device. No. 1,417,566; May 30.
- Realite Pencil Manufacturing Company. (See Keeran, Charles R., assignor.)
- Real Silk Hosiery Mills. (See Goodman, Lazure L., assignor.)
- Reals, Willis O., Utica, N. Y. Valve control for automatic sprinkler systems. No. 1,432,257; Oct. 17.
- Ream, Fred H., Dayton, Ohio. Snubber. No. 1,418,828; June 6.
- Ream, Walter J., Spring Valley, Ill. Hernia bandage for infants. No. 1,404,891; Jan. 31.
- Reardon, Daniel B., Council Bluffs, Iowa. Road maintainer. No. 1,429,768; Sept. 19.
- Reardon, Fred A., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Shoe machine. No. 1,418,736; June 6.
- Reardon, Fred A., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Wood-heel-clamping device. No. 1,425,543; Aug. 15.
- Reardon, Robert E., Washington, D. C. Toy pistol. No. 1,439,023; Dec. 19.
- Reaser, Lewis, Reading, Pa. Automobile signal device. No. 1,413,237; Apr. 18.
- Reasner, Clyde W., Chicago, Ill. Ash tray. No. 1,418,737; June 6.
- Reasoner, Isaac A., and D. J. Flintjer, Winona, Mo. Pneumatic tire. No. 1,419,470; June 13.
- Reaves, John C., Plymouth, Calif. Tappet. No. 1,405,719; Feb. 7.
- Reavis, Jesse O., Fort Worth, Tex. Mirror support. No. 1,409,779; Mar. 14.
- Rebideau, Louis N., Basin, Wyo. Lid holder. No. 1,429,630; Sept. 19.
- Rebori, Attilio, Buenos Aires, Argentina. Automatic switch for point blades. No. 1,412,136; Apr. 11.
- Rebsamen, Julius, Chicago, Ill. Refrigeration. No. 1,425,216; Aug. 8.
- Rebuffat, Orazio, Naples, Italy, assignor to Pomilio Brothers Corporation, New York, N. Y. Refractory silica brick and manufacture. No. 1,420,284; June 20.
- Recen, Henry A., Kokomo, Colo. Mechanical movement. No. 1,403,632; Jan. 17.
- Recen, Henry A., Kokomo, Colo. Mechanical movement. No. 1,410,720; Mar. 28.
- Rechnitzer Alexander, Vienna, Austria. Calculating machine. No. 1,409,575; Mar. 14.
- Recip-Roto Engine Company, The. (See Hart, Ira B., assignor.)
- Recip-Roto Engine Company, The. (See Moors, George F., assignor.)
- Reck, Eugen, assignor to Freese's Patent Eisenschutz und Schraubenwellenbekleidung für Schiffe G. m. b. H., Charlottenburg, Germany. Coating for the preservation of wood, pasteboard, masonry, leather, sheet iron, etc. No. 1,418,172; May 30.
- Reck, Peter W., Bettendorf, Iowa. Divisible locking steering wheel. No. 1,426,773; Aug. 22.
- Recker, Adolph C., Oakville, assignor to The Chase Companies, Inc., Waterbury, Conn. Insulating coupling unit for pull-socket chains. No. 1,419,644; June 13.
- Recker, Adolph C., Oakville, assignor to The Chase Companies, Inc., Waterbury, Conn. Electrical attachment plug. No. 1,425,694; Aug. 15.
- Record, James L., and H. J. Campbell, assignors to Minneapolis Steel & Machinery Co., Minneapolis, Minn. Wheel. No. 1,432,493; Oct. 17.
- Records, Paul A., Perryton, Tex. Single-cylinder double-acting pump. No. 1,411,515; Apr. 4.
- Rector, Enoch, New York, N. Y., assignor, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn. Carburetor. No. 1,425,339; Aug. 8.
- Rector, Thomas M. (See Coggeshall, G. W., and Rector.)
- Reddaway, Frank, and G. J. Rackham, London, England. Tire and wheel rim to be used therewith. No. 1,408,399; Feb. 28.
- Reddick, John C., Toronto, Ontario, Canada. Typewriter. No. 1,407,440; Feb. 21.
- Reddig, Charles E., Richmond Hill, assignor to Western Electric Company, Incorporated, New York, N. Y. Belt adapter. No. 1,412,371; Apr. 11.
- Reddig, Charles E., Long Island, assignor to Western Electric Company, Incorporated, New York, N. Y. Pulley. No. 1,416,063; May 16.
- Reddig, Charles E., Richmond Hill, assignor to Western Electric Company, Incorporated, New York, N. Y. Engine-driven electric generator unit. No. 1,432,903; Oct. 24.
- Redding, Charles, et al. (See Parker, Arthur, assignor.)
- Redding, Charles E. (See Hendry, W. F., and Redding.)
- Redding, Elsie J., Mount Holly, N. J. Locking device for motor vehicles. No. 1,415,394; May 9.
- Redding, Harry B., assignor of two-thirds to I. S. Fink and one-third to The Redding Valve Company, Columbus, Ohio. Valve. No. 1,438,967; Dec. 19.
- Redding Valve Company, The. (See Redding, Harry B., assignor.)
- Reder, John, New York, N. Y. Cutlery sharpener. No. 1,439,711; Dec. 26.
- Redfield, Snowden B., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Compressor unloader. No. 1,421,309; June 27.
- Redfield, Snowden B., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Compressor unloader. No. 1,428,981; Sept. 12.
- Redford, John E. (See Wahlert, H. A., and Redford.)
- Redford, John E., Kinloch Park, assignor to The American Brake Company, St. Louis, Mo. Brake-lever connection. No. 1,417,203; May 23.
- Redford, Mattie K., Lexington, Ky. Rompers. No. 1,424,589; Aug. 1.
- Redheffer, Harry A. (See Verneau, Henry, assignor.)
- Redifer, Ray, and F. E. Chadd, Danville, Ind. Quantitative oil-dispensing bottle. No. 1,437,197; Nov. 28.
- Redington, F. B., Company. (See Milroe, Michael J., assignor.)
- Redington, Paul G., et al. (See Beyer, Clarence B., assignor.)
- Redler, Arnold, Flour Mills, Sharpness, England. Means for abstracting pulverulent material from bulk. No. 1,416,416; May 16.
- Redler, Arnold, Sharpness, England. Chain for bin dischargers and conveyors. No. 1,433,567; Oct. 31.
- Redlon, Osgood M., Bath, Me. Adjustable roof collar. No. 1,425,418; Aug. 8.

Alphabetical list of patentees—Continued.

- Redman, Frank, New York, N. Y. Shoe heel. No. 1,439,757; Dec. 26.
- Redman, Frank, New York, N. Y. Shoe heel. No. 1,439,758; Dec. 26.
- Redman, Lawrence V., A. J. Weith, F. P. Brock, Evans-ton, assignors to Redmanol Chemical Products Com-pany, Chicago, Ill. Phenolic condensation product article and manufacture. No. 1,424,738; Aug. 1.
- Redmanol Chemical Products Company. (See Redman, L. V., Weith, and Brock, assignors.)
- Redmond, Albert G., Indianapolis, Ind., assignor to Marvel Carburetor Company, Flint, Mich. Carburetor. No. 1,412,137; Apr. 11.
- Redmond, Harriet L., Boston, assignor to William Carter Company, Needham Heights, Mass. Undergarment. No. 1,405,000; Jan. 31.
- Redmond, Harriet L., Boston, assignor to The William Carter Company, Needham Heights, Mass. Undergarment. No. 1,414,202; Apr. 25.
- Redmond, Harriet L., Boston, assignor to The William Carter Company, Needham Heights, Mass. Undergarment. No. 1,414,203; Apr. 25.
- Redmond, Harriet L., Boston, assignor to The William Carter Company, Needham Heights, Mass. Undergarment. No. 1,414,204; Apr. 25.
- Redmond, Harriet L., Boston, assignor to The William Carter Company, Needham Heights, Mass. Undergarment. No. 1,414,205; Apr. 25.
- Redmond, Harriet L., Boston, assignor to The William Carter Company, Needham Heights, Mass. Infant's band. No. 1,425,898; Aug. 15.
- Redmond, Harriet L., Boston, assignor to The William Carter Company, Needham Heights, Mass. Infant's band. No. 1,425,899; Aug. 15.
- Redmond, John, New York, N. Y. Condensation receiver and pump. No. 1,411,585; Apr. 4.
- Redmond, John J. (See Couture, William L., assignor.)
- Redshaw, George L., Genora, N. D. Door for grain cars. No. 1,406,894; Feb. 14.
- Redwine, Rex F., Kerrville, Tex. Nut-handling machine. No. 1,410,122; Mar. 21.
- Ree, Albert C., Libertyville, Ill. Shock absorber. No. 1,434,024; Oct. 31.
- Reece Button Hole Machine Company, The. (See Kiewicz, John, assignor.)
- Reece Button Hole Machine Company, The. (See Reece, Franklin A., assignor.)
- Reece, Frank A., Hopkinton, Mass. Automobile head-light. No. 1,409,469; Mar. 14.
- Reece, Franklin A., Chestnut Hill, assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing machine. No. 1,424,851; Aug. 8.
- Reece-Hilton, Inc. (See Hilton, Roland C., assignor.)
- Reece, John, assignor to Reece Transmission Company, Boston, Mass. Variable-speed transmission. No. 1,428,659; Sept. 12.
- Reece, John, assignor to Reece Transmission Company, Boston, Mass. Variable-speed transmission. No. 1,428,660; Sept. 12.
- Reece, John, St. Louis, Mo., assignor to Evr Klean Seat Pad Co. Seat cover. No. 1,436,459; Nov. 21.
- Reece Shoe Machinery Company. (See Perri, Angelo, assignor.)
- Reece Shoe Machinery Company. (See Schoenky, August R., assignor.)
- Reece Transmission Company. (See Reece, John, assignor.)
- Reed, Adam, Yakima, Wash. Shield. No. 1,403,867; Jan. 17.
- Reed, Asa E., San Bernardino, Calif. Circular type of power generator. No. 1,429,971; Sept. 26.
- Reed, Benjamin E., Ridgely, Md., and J. E. Clippinger, Philadelphia, Pa. Tractor plow. No. 1,420,576; June 20.
- Reed, C. E. (See Sorensen, Sam, assignor.)
- Reed, C. E. (See Steen, B. J., and Duda, assignors.)
- Reed, Charles E., et al. (See Edwards, William A., assignor.)
- Reed, Charles J., Glenside, Pa. Treating sulphide ores. No. 1,415,897; May 16.
- Reed, Charles J., Homestead, assignor of one-half to J. G. Berryhill, San Francisco, Calif. Obtaining manganese dioxide and nitric acid. No. 1,415,395; May 9.
- Reed, Clarence E., Houston, Tex. Wrench. No. 1,412,260; Apr. 11.
- Reed, Clarence E., and S. Sorensen, Houston, Tex.; said Sorensen assignor to said Reed. Well drilling tool. No. 1,405,160; Jan. 31.
- Reed, David C., Flushing, N. Y., assignor to National Carbon Company, Inc. Electric battery. No. 1,437,553; Dec. 5.
- Reed, Earl W., Sunnyside, Wash. Motor-driven buck rake. No. 1,424,943; Aug. 8.
- Reed, Edwin, Andover, Mass. Roll. No. 1,405,161; Jan. 31.
- Reed, Edwin A. (See Wheeler, J. L., and Reed.)
- Reed, Ella, Oklahoma, Okla. Ice tongs. No. 1,413,358; Apr. 18.
- Reed, Elmer A. (See Meyer, A. R., and Reed.)
- Reed, Forrest C. (See Hoffman, P., and Reed.)
- Reed, Frank E., Houston, Tex. Pipe-laying machine. No. 1,409,407; Mar. 14.
- Reed, Frank E., Houston, Tex. Shaft coupling. No. 1,414,207; Apr. 25.
- Reed, Frank J., assignor of one-half to A. H. Siert, Omaha, Nebr. Internal combustion engine. No. 1,415,481; May 9.
- Reed, Fred A., Syracuse, N. Y. Knurling tool. No. 1,414,668; May 2.
- Reed, Frederic P., East Orange, N. J., assignor, by mesne assignments, to C. C. Orcutt. Drying machine. No. 1,431,488; Oct. 10.
- Reed, Frederic P., East Orange, N. J., assignor, by mesne assignments, to C. C. Orcutt. Coating paper. No. 1,431,489; Oct. 10.
- Reed, Frederic P., East Orange, N. J., assignor, by mesne assignments, to C. C. Orcutt. Paper-drying apparatus. No. 1,431,756; Oct. 10.
- Reed, Frederic P., East Orange, assignor to C. C. Orcutt, Long Branch, N. J. Drier for paper coating machinery. No. 1,432,302; Oct. 17.
- Reed, Frederic P., East Orange, N. J., assignor, by mesne assignments, to C. C. Orcutt. Moistening device. No. 1,432,730; Oct. 17.
- Reed, Frederic P., East Orange, N. J., assignor, by mesne assignments, to C. C. Orcutt. Vacuum pocket. No. 1,432,731; Oct. 17.
- Reed, Frederic P., East Orange, N. J., assignor, by mesne assignments, to C. C. Orcutt. Moistening device. No. 1,432,733; Oct. 17.
- Reed, Frederic P., East Orange, N. J., assignor, by mesne assignments, to C. C. Orcutt. Process and apparatus for coating paper. No. 1,432,734; Oct. 17.
- Reed, Frederic P., East Orange, N. J., assignor, by mesne assignments, to C. C. Orcutt. Drier. No. 1,432,736; Oct. 17.
- Reed, Frederic P., East Orange, N. J., and C. Nelson, Brooklyn, N. Y., assignor, by mesne assignments, to C. C. Orcutt. Drying machine. No. 1,432,732; Oct. 17.
- Reed, Frederic P., East Orange, N. J., and C. Nelson, Brooklyn, N. Y., assignors, by mesne assignments, to C. C. Orcutt. Drier. No. 1,432,735; Oct. 17.
- Reed, Frederic P., East Orange, N. J., and C. Nelson, Brooklyn, N. Y., assignors, by mesne assignments, to C. C. Orcutt. Moistening device. No. 1,433,036; Oct. 24.
- Reed, Geo. W., Jr., et al. (See Webb, Robert T., assignor.)
- Reed, Harrison P., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electrical controller. No. 1,435,979; Nov. 21.
- Reed, Hugh T., Chicago, Ill. Calendar. No. 1,427,850; Sept. 5.
- Reed, Ira M., assignor of one-third to W. B. Scott, Wil-hamston, W. Va. Regulator. No. 1,433,416; Oct. 24.
- Reed, Jacob D. (See Bausher, S. D., and Reed.)
- Reed, James W. (See Rollins, George L., assignor.)
- Reed, Katherine H. (See Reed, Roscoe C., assignor.)
- Reed, Luke D., Burnham, Ill. Vehicle cushioning and shock-absorbing device. No. 1,402,890; Jan. 10.
- Reed, Melancthon W., Marion, Ind. Wheel tread. No. 1,402,963; Jan. 10.
- Reed, Raymond T., Wichita, Kans. Collapsible tent. No. 1,415,482; May 9.
- Reed, Richard B., jr., Orange, Calif. Device for embed-ding wires in fusible sheets. No. 1,428,185; Sept. 5.
- Reed, Roscoe C., assignor, by mesne assignments, of two-thirds to Katherine H. Reed, Syracuse, N. Y. Inter-nal combustion engine. No. 1,413,541; Apr. 18.
- Reed, Roy E., et al. (See Frey, George W., assignor.)
- Reed, Russell F., San Francisco, Calif. Matrix cleaner. No. 1,425,132; Aug. 8.
- Reed, Sadie A., Long Beach, Calif. Spool and needle case. No. 1,421,099; June 27.
- Reed, Walter A., Mount Union, Pa. First-aid outfit. No. 1,437,359; Nov. 28.
- Reed, Walter C., Burnham, Ill. Tool for removing hand-hole plates. No. 1,410,597; Mar. 28.
- Reed, Walter C., Dalton, Mass. Power-transmission appa-ratus. No. 1,421,565; July 4.
- Reed, Walter S., et al., executors. (See Gayley, James.)
- Reed, William. (See Garrison, Perry J., assignor.)
- Reed, William M., assignor to Louisville Air Painting and Trimming Company, Louisville, Ky. Air-cleansing device and ventilator. No. 1,416,381; May 16.
- Reed, William R., Baltimore, Md. Ladder. No. 1,435,420; Nov. 14.
- Reed, Wilson W. (See Saylor, Clyde M., assignor.)
- Reeder, Fred E., Hominy, Okla. Can opener. No. 1,426,673; Aug. 22.
- Reedy, Alfred J., Battle Creek, Mich. Cooking stove. No. 1,413,781; Apr. 25.
- Reedy, Daniel V., Indianapolis, Ind. Freight and pas-senger elevator. No. 1,435,082; Nov. 7.
- Reedy, John H., Hamilton, Ohio. Thrust collar. No. 1,409,576; Mar. 14.
- Reedy, John H., Hamilton, Ohio. Paper-roll mounting. No. 1,419,982; June 20.
- Reedy, John H., Hamilton, Ohio. Paper-roll mounting. No. 1,419,983; June 20.
- Reekie, James D., Duluth, and G. M. Crossen, Minneapolis, Minn. Method and means for purifying water for steam boilers. No. 1,440,103; Dec. 26.
- Reenstrom, Walter, Chicago, Ill. Ventilator. No. 1,424,944; Aug. 8.

Alphabetical list of patentees—Continued.

- Reenstrom, Walter, Chicago, Ill. Forming hoods and aprons for ventilators. No. 1,424,945; Aug. 8.
- Ree-Nu-It Electric Manufacturing Company. (See Smith, W. O. and Grenache, assignors.)
- Rees Blow Pipe Manufacturing Company. (See Rees, Claude, assignor.)
- Rees, Claude, assignor to Rees Blow Pipe Manufacturing Company, San Francisco, Calif. Drying apparatus. No. 1,413,135; Apr. 18.
- Rees, Edmund S. G., Wolverhampton, England. Apparatus for maneuvering ships and aircraft. No. 1,415,705; May 9.
- Rees, Frank W., assignor to H. H. Welbon, Seattle, Wash. Adjustable auto mirror. No. 1,420,145; June 20.
- Rees, Frank W., assignor to See-All Manufacturing Co., Seattle, Wash. Mirror attachment for vehicles. No. 1,426,010; Aug. 15.
- Rees, Frederick J., London, England. Window of road vehicles. No. 1,420,617; June 20.
- Rees, Gordon, East New Annap, Nova Scotia, Canada. Handle for blacksmiths' vises. No. 1,422,478; July 11.
- Rees, Herbert C., San Antonio, Tex. Lens mount and forming same. No. 1,430,114; Sept. 26.
- Rees, Rees, Kapunda, South Australia, Australia. Method of and means for blockig saddles for steam boilers. No. 1,413,492; Apr. 18.
- Rees, Rees, Kapunda, South Australia, Australia. Method of and means for blocking or corrugating headers for steam boilers. No. 1,415,706; May 9.
- Rees, Rees, Kapunda, South Australia, Australia. Method of and means for blocking saddles for steam boilers. No. 1,431,041; Oct. 3.
- Rees, Thomas M., Kew Gardens, England. Means for sinking dies. No. 1,435,552; Nov. 14.
- Rees, Warren C., Somerville, assignor to Aseptic Service Company, Boston, Mass. Slot guard for coin-controlled locks. No. 1,434,224; Oct. 31.
- Reese, Charles B., Toledo, Ohio. High-speed bearing. No. 1,402,794; Jan. 10.
- Reese, Charles C., and C. C. Brown, Crockett, Calif. Bag-turning machine. No. 1,405,330; Jan. 31.
- Reese, Franklin T., Pittsburgh, Pa. Ratchet wrench. No. 1,428,982; Sept. 12.
- Reese, Henry D., Biloxi, and J. M. Harless, assignors of one-third to J. D. Odneal, Gulfport, Miss. Eye testing machine. No. 1,437,776; Dec. 5.
- Reese, John E., Louisville, Ky. Stoker. No. 1,403,868; Jan. 17.
- Reese, Merl W., New York, N. Y. Tie holder and retainer. No. 1,409,027; Mar. 7.
- Reese, Reese D., Virginia, Minn. Machine for making springs. No. 1,421,566; July 4.
- Reese, Samuel L., Corsicana, Tex. Well bucket. No. 1,412,432; Apr. 11.
- Reese, William C., Hayes Center, Nebr. Pump jack. No. 1,419,984; June 20.
- Reessler, Isidore, Detroit, Mich. Deodorant and disinfectant compound. No. 1,408,535; Mar. 7.
- Reeve, Charles S., Grantwood, N. J., assignor to The Barrett Company. Emulsion and making the same. No. 1,408,224; Feb. 28.
- Reeve, Sidney A., New Brighton, N. Y. Musical notation. No. 1,415,396; May 9.
- Reeves, Alex, Atlanta, Ga. Door check. No. 1,422,783; July 11.
- Reeves, Clinton D., Tacoma, Wash. Dirigible headlight. No. 1,410,508; Mar. 21.
- Reeves, Donald H., Dayton, Ohio. Pneumatic pump. No. 1,432,786; Oct. 24.
- Reeves, Edwin A., Milford, Conn. Vacuum cleaner. No. 1,429,530; Sept. 19.
- Reeves, Edwin A., Milford, Conn. Vacuum cleaner. No. 1,429,531; Sept. 19.
- Reeves, Edwin A., Milford, Conn. Vacuum cleaner. No. 1,429,532; Sept. 19.
- Reeves, Edwin A., Milford, Conn. Vacuum cleaner. No. 1,429,533; Sept. 19.
- Reeves, Francis M., Tina, Mo. Line control and gear shift for tractors. No. 1,439,759; Dec. 26.
- Reeves, George R., Chicago, Ill. Miter clamp. No. 1,416,874; May 23.
- Reeves, John B., Los Angeles, Calif. Burner. No. 1,424,739; Aug. 1.
- Reeves, John C., Huntsville, Ark. Means of identification. No. 1,410,598; Mar. 28.
- Reeves, Leslie C., Pitman, and M. A. Webb, Jr., Camden, N. J. Exercising device. No. 1,422,888; July 18.
- Reeves, Milton O., assignor to Reeves Pulley Company, Columbus, Ind. Grinding machine. No. 1,410,956; Mar. 28.
- Reeves, Milton O., assignor to Reeves Pulley Co., Columbus, Ind. Grinding machine. No. 1,430,754; Oct. 3.
- Reeves, Milton O., assignor to Reeves Pulley Company, Columbus, Ind. Transmission belt. No. 1,435,737; Nov. 14.
- Reeves Pulley Company. (See Clay, Harry C., assignor.)
- Reeves Pulley Company. (See Reeves, Milton O., assignor.)
- Re-Filit Broom Company. (See Neff, Harry D., assignor.)
- Reflector & Illuminating Co. (See Herron, James C., assignor.)
- Refractories Machinery Manufacturing Company. (See Norton, Charles L., assignor.)
- Refrigerating Specialties Company. (See Hansen, Charles C., assignor.)
- Regal Button Works, Incorporated. (See Cannon, Henry H., assignor.)
- Regan, Albert L., assignor to The Hooven & Allison Company, Xenia, Ohio. Towrope. No. 1,421,026; June 27.
- Regan Forge and Engineering Company. (See Winger, Ralph R., assignor.)
- Regan, Joseph, Rockville, Conn. Brick. No. 1,439,446; Dec. 19.
- Regan, Joseph C., New Britain, assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electric cut-out box. No. 1,406,683; Feb. 14.
- Regan, Joseph C., New Britain, assignor to The Trumbull Electric Manufacturing Co., Plainville, Conn. Support for insulating bases. No. 1,410,035; Mar. 21.
- Regan Safety Devices Company, Inc. (See Kendall, Allen B., assignor.)
- Regan Safety Devices Company, Inc. (See Shaver, Archibald, assignor.)
- Regan, William J. (See Milliken, I. H., and Regan.)
- Regan, William J., assignor to The McConway & Torley Company, Pittsburgh, Pa. Uncoupling mechanism. No. 1,417,567; May 30.
- Regen, Johannes, Vienna, Austria. Intermittent-motion gearing. No. 1,432,494; Oct. 17.
- Regina Company, The. (See Brachhausen, Gustav A., assignor.)
- Register, Robert A., Earleville, Md. Husking machine. No. 1,412,489; Apr. 11.
- Rego, Jose P., Honolulu, Hawaii. Chicken feeder. No. 1,404,543; Jan. 24.
- Regopulos, Regas, Milwaukee, Wis. Trolley-pole holder for street cars. No. 1,408,534; Mar. 7.
- Regulax Engine Corporation. (See Björkgren, Johan F., assignor.)
- Regulski, Frank, Brooklyn, assignor to Herman Scheuer & Sons, New York, N. Y. Hand bag. No. 1,425,217; Aug. 8.
- Rehak, Hans, Vienna, Austria. Hydraulic carriage-lifting jack. No. 1,420,146; June 20.
- Rehe, William, Rochester, N. Y. Willow-chair construction. No. 1,412,197; Apr. 11.
- Reh fuss, Martin O., Philadelphia, assignor to United States Chain and Forging Company, Pittsburgh, Pa. Chain-making machine. No. 1,405,379; Jan. 31.
- Reh fuss, Martin O., assignor to John Wanamaker, Philadelphia, Pa. Impressing machine. No. 1,432,568; Oct. 17.
- Rehn, Edward H., and E. A. Tousley, Lima, Ohio. Household pounding block. No. 1,420,577; June 20.
- Rehor, Joseph. (See Stark, E., and Rehor.)
- Reiber, Edward W., assignor to The Reiber-Kolz Company, Adrian, Mich. Spotlight. No. 1,427,329; Aug. 29.
- Reiber-Kolz Company, The. (See Reiber, Edward W., assignor.)
- Reich, Ewald T., Chicago, Ill. Luggage carrier and table. No. 1,431,685; Oct. 10.
- Reich, Edward E., Chicago, Ill. Locking device for pressing machines. No. 1,425,695; Aug. 15.
- Reich, Hannah, Chicago, Ill. Toy. No. 1,417,860; May 30.
- Reich, Julius, Dayton, Ohio. Surface-test indicator. No. 1,436,111; Nov. 21.
- Reich, Morris. (See Crocker, J. M., and Magune, assignors.)
- Reichard, Benjamin, New York, N. Y. Hat-creaser retainer. No. 1,406,078; Feb. 7.
- Reichard, Conrad, Frankfurt-on-the-Main, Germany. Tumbler lock. No. 1,436,357; Nov. 21.
- Reichard, Louis, Easton, Pa. Motor. No. 1,429,772; Sept. 19.
- Reichard, Walter V., Paola, Kans. Rod-line stretcher and well bumper. No. 1,436,531; Nov. 21.
- Reichart, James H., assignor to The Stereoelectric Company, Muncie, Ind. Fireless cooker. No. 1,415,049; May 9.
- Reichart, James H., assignor to The Stereoelectric Company, Muncie, Ind. Thermostatic electric switch. No. 1,415,050; May 9.
- Reichart, Louis, assignor of one-half to F. Petz, Philadelphia, Pa. Shutter-actuating device for cameras. No. 1,405,162; Jan. 31.
- Reichelt, Johann H., Lorguon, Victoria, Australia. Combined cultivator and twin seed and fertilizer sowing implement. No. 1,405,001; Jan. 31.
- Reichenbaum, Emil, Flint, Mich. Filing machine. No. 1,412,217; Apr. 11.
- Reichert, John, Racine, Wis. Tool for demountable rims and the like. No. 1,419,758; June 13.
- Reichert, Oscar C. (See Neuner, Martin C., assignor.)
- Reichhelm, George L., New York, N. Y. Liquid-producer plant and forming combustible gas. No. 1,434,025; Oct. 31.
- Reichl, Joseph, assignor to Dean Hotel Company, Kansas City, Mo. Display window. No. 1,416,875; May 23.
- Reichmann, Frank J., assignor to American Production and Trading Company, Chicago, Ill. Electric flasher sign. No. 1,407,805; Feb. 28.
- Reichmann, Frederick, Webster Groves, assignor to The Measuregraph Company, St. Louis, Mo. Lace-measuring machine. No. 1,415,483; May 9.
- Reichmann, Fritz. (See Neale, Charles C., assignor.)

- Reichold, Ludwig, Pittsfield, Mass., assignor to General Electric Company. Temperature-regulating device. No. 1,414,669; May 2.
- Reichstein, Walter, Berlin, Germany. Safety padlock. No. 1,420,578; June 20.
- Reickert, Otto J., Springfield, Mass. Vehicle headlight. No. 1,419,942; June 20.
- Reid, Alexander C., assignor to Leich Electric Company, Genoa, Ill. Telephone system. No. 1,413,782; Apr. 25.
- Reid, Alexander C., assignor to Leich Electric Co., Genoa, Ill. Rectifier system. No. 1,418,398; June 6.
- Reid, Alexander H., assignor to The Coburn Trolley Track Manufacturing Company, Chicopee, Mass. Locking and operating device for trolley switches. No. 1,414,303; Apr. 25.
- Reid, Alfred J., assignor of one-half to P. M. Savage, San Francisco, Calif. Holder for screws, nails, and the like. No. 1,426,320; Aug. 15.
- Reid, Alfred J., assignor of one-half to P. M. Savage, San Francisco, Calif. Mechanical pencil. No. 1,438,504; Dec. 12.
- Reid, Allan E., Readsboro, Vt., assignor to International Nitrogen Company, Cleveland, Ohio. Manufacture of carbide. No. 1,434,451; Nov. 7.
- Reid, Cecil H., Somerset West, South Africa. Motor. No. 1,433,037; Oct. 24.
- Reid, Chester C., New York, N. Y. Kite. No. 1,425,419; Aug. 8.
- Reid, Daniel S., assignor of one-half to W. F. Strowd, Slurria, Ala. Automatic stop for motion-picture machines. No. 1,419,759; June 13.
- Reid, Frederick G., and W. B. Allison, assignors to Harvey Rim & Wheel Company, Inc., Buffalo, N. Y. Disk-wheel construction. No. 1,412,218; Apr. 11.
- Reid, Henry C., assignor to Pacific Fire Extinguisher Company, San Francisco, Calif. Tractor. No. 1,422,375; July 11.
- Reid, Hugh. (See MacLeod, James, assignor.)
- Reid, James, Syracuse, N. Y. Piston ring. No. 1,405,331; Jan. 31.
- Reid, James, Syracuse, N. Y. Forming piston rings. No. 1,405,332; Jan. 31.
- Reid, James H., Newark, N. J., assignor, by mesne assignments, to International Nitrogen Company. Producing and securing products from lignite. No. 1,403,633; Jan. 17.
- Reid, James S., Harrisburg, Ill. Railway switch. No. 1,406,079; Feb. 7.
- Reid, James S., Harrisburg, Ill. Switch stand. No. 1,409,780; Mar. 14.
- Reid, John, New York, N. Y. Oil-burning-furnace front. No. 1,414,208; Apr. 25.
- Reid, Lester B., Gaffney, S. C. Roller-bar tips for spinning machines. No. 1,415,707; May 9.
- Reid, Remer R. (See Neudorff, F., and Reid.)
- Reid, Robert H. (See Reid, William, R. H. and W., Jr.)
- Reid, Walter W., New York, N. Y. Box. No. 1,407,869; Jan. 17.
- Reid, William, Jr. (See Reid, William, R. H. and W., Jr.)
- Reid, William, R. H., and W., Jr., Hamilton, Scotland. Resilient tire for wheels. No. 1,404,059; Jan. 17.
- Reidenbach, Herman O., assignor to L. A. Young Industries, Inc., Detroit, Mich. Spring-seat construction. No. 1,418,469; June 6.
- Reidenbach, Herman O., assignor to L. A. Young Industries, Inc., Detroit, Mich. Spring structure. No. 1,433,229; Oct. 24.
- Reidenbach, Herman O., assignor to L. A. Young Industries, Inc., Detroit, Mich. Spring structure. No. 1,433,230; Oct. 24.
- Reider, George, Los Angeles, Calif. Tire. No. 1,411,516; Apr. 4.
- Reif, Joseph, assignor of 45 per cent to F. E. Ling, Hebron, Ind. Saw set. No. 1,403,634; Jan. 17.
- Reif, Joseph, assignor of 45 per cent to F. E. Ling, Hebron, Ind. Saw-filing mechanism. No. 1,407,168; Feb. 21.
- Reiff, Emil. (See Seller, J., and Reiff.)
- Reiff and Nestor Company. (See Kline, Benton M., assignor.)
- Reifgraber, Joseph J., St. Louis, Mo. Automatic firearm. No. 1,418,021; May 30.
- Reifsnnyder, James D., Weehawken, N. J., and G. H. Fath, Denver, Colo., assignors to Stokes & Smith Company. Apparatus for feeding and gumming blanks. No. 1,403,635; Jan. 17.
- Reifurth, Otto, Bochum, Germany. Apparatus for rolling tires. No. 1,406,895; Feb. 14.
- Reigh, Clarence J., Juniata, Pa. Motor vehicle. No. 1,428,907; Sept. 12.
- Reiland, Ernest S. and P. M., St. Paul, Minn. Belt tightener. No. 1,402,891; Jan. 10.
- Reiland, Peter M. (See Reiland, Ernest S. and P. M.)
- Reilley, Edward P., Cleveland, Ohio. Vapor feed for carburetors. No. 1,409,313; Mar. 14.
- Reilly, Edgar J. (See Nelson, A. C., and Reilly.)
- Reilly, Francis J., New York, N. Y. Infant's bath chair. No. 1,414,897; May 2.
- Reilly, Ineva T., Indianapolis, Ind. Necktie holder. No. 1,439,261; Dec. 19.
- Reilly, James F., Philadelphia, Pa. Cable carrier. No. 1,429,631; Sept. 19.
- Reilly, James F., Philadelphia, Pa. Cable carrier. No. 1,429,632; Sept. 19.
- Reilly, James F., Philadelphia, Pa. Trench machine. No. 1,432,904; Oct. 24.
- Reilly, James F., Philadelphia, Pa. Trench machine. No. 1,432,905; Oct. 24.
- Reilly, Thomas A., Central Falls, R. I., assignor to J. & P. Coates (R. I.) Inc. Label. No. 1,414,830; May 2.
- Reilly, William, Kerrisdale, New Brunswick, Canada. Vulcanizer. No. 1,407,771; Feb. 28.
- Reilly, William J., Newark, N. J. Matting. No. 1,408,828; Mar. 7.
- Reiman, Abraham, Chicago, Ill. Collapsible horse. No. 1,435,738; Nov. 14.
- Reimann, Jacques, assignor to Tubes Limited, Birmingham, England. Rolling mill. No. 1,412,261; Apr. 11.
- Reimann, Jacques, assignor to Tubes Limited, Birmingham, England. Rolling mill. No. 1,424,678; Aug. 1.
- Reimer, Arthur E., executor. (See Callan, Frank J.)
- Reimers, Alfred E., Middletown, N. Y. Heating unit for sadirons. No. 1,439,121; Dec. 19.
- Reimers, William F. C., Paulina, Iowa. Fish-stringing device. No. 1,407,221; Feb. 21.
- Reimert, Robert R., Jr. (See Gatliff, Robert, assignor.)
- Rein, Wilmer A., Pleasant Springs, Wis. License tag for vehicles. No. 1,432,495; Oct. 17.
- Reinberger, Paul, Cleveland, Ohio. Fluid-current motor. No. 1,427,124; Aug. 29.
- Reinboth, Friedrich C., Berlin, Germany. Device for tensioning the iron bands of boxes. No. 1,428,060; Sept. 5.
- Reinboth, Friedrich C., Berlin, Germany. Device for strapping boxes, crates, bales, etc. No. 1,431,423; Oct. 10.
- Reineke, Charles, New York, N. Y. Reduction and multi-stroke power transmitting mechanism. No. 1,411,517; Apr. 4.
- Reiner, Emanuel. (See Hartleb, Rudolph C., assignor.)
- Reingold, Meyer, New York, N. Y. Garment. No. 1,402,089; Jan. 3.
- Reingpach, Charles P. B. (See Webb, A., Belton, and Reingpach.)
- Reinhardt, Franz, assignor to Firm Kämmer & Reinhardt, A. G., Waltershausen, Germany. Sleeping doll. No. 1,412,670; Apr. 11.
- Reinhardt, Gottlieb, Saginaw, Mich. Poultry feeder. No. 1,430,405; Sept. 26.
- Reinhardt, Theophilus H., and J. A. Merkler, Staten Island, N. Y. Garment supporter. No. 1,402,378; Jan. 3.
- Reinhardt, William, New York, N. Y. Convertible vehicle body. No. 1,427,634; Aug. 29.
- Reinhart, Leonard. (See Scheman, J., and Reinhart.)
- Reinhold, John J., Marietta, Pa. Coin wrapper. No. 1,420,285; June 20.
- Reinhold, Philip A., Akron, Ohio. Tractor and plowing attachment therefor. No. 1,423,736; July 25.
- Reinholz, Joseph J., New York, N. Y. Brush. No. 1,434,844; Nov. 7.
- Reinke, Gustave A., Westwood, Calif. Raker gauge. No. 1,431,042; Oct. 3.
- Reinke, William, et al. (See Ruehrwein, Charles J., assignor.)
- Reinl, Frank, Secaucus, N. J. Vehicle signal. No. 1,419,305; June 13.
- Reinl, Frederick, Secaucus, N. J. Window screen. No. 1,402,892; Jan. 10.
- Reinschmidt, Frank, Crookston, Minn. Towing device. No. 1,428,860; Sept. 12.
- Reinsmith, George, assignor to F. N. Hauck, Fowler, Mich. Weed cutter. No. 1,438,857; Dec. 12.
- Reip, Frank A. (See De Dominicis, V., and Reip.)
- Reis, Louis C., Duluth, Minn. Buckstay and fabricating same. No. 1,402,444; Jan. 3.
- Reisbach, Gustav B., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Rheostat. No. 1,414,709; May 2.
- Reiser, Daniel and O. J., Cleveland, Ohio. Automobile theft indicator. No. 1,408,032; Feb. 28.
- Reiser, Orin J. (See Reiser, Daniel and O. J.)
- Reiser, Reynold J., Kenosha, Wis. Transmission mechanism. No. 1,423,454; July 18.
- Reisfeld, Louis, assignor of one-half to F. Deutsch, Chicago, Ill. Sausage-linking machine. No. 1,419,985; June 20.
- Reisner, William H., Hagerstown, Md., assignor to The L. S. Starratt Company, Athol, Mass. Indicating surface gauge. No. 1,419,306; June 13.
- Reiss-Premier Pipe Company. (See Burger, Jacob D., assignor.)
- Reisszeugfabrik Eichmüller & Co. (See Renzelberg, August, assignor.)
- Reist, Henry G., Schenectady, N. Y., assignor to General Electric Company. Bearing. No. 1,430,850; Oct. 3.
- Reister, Charles V. (See Durney, E. B., and Reister.)
- Reisz, Eugen, Treptow, near Berlin, Germany. Discharge-tube relay for undulatory currents. No. 1,418,022; May 30.
- Reisz, Eugen, Treptow, near Berlin, Germany. Apparatus for converting direct currents of low voltage into direct currents of high voltage. No. 1,418,023; May 30.
- Reitenbaugh, Charles C., Rock Island, Ill. Beam compass. No. 1,404,794; Jan. 31.
- Reiter, Daniel I., New York, N. Y. Key-case holder. No. 1,403,445; Jan. 10.
- Reiter, Joseph, New York, N. Y. Life-saving and swimming apparatus. No. 1,429,773; Sept. 19.

Alphabetical list of patentees—Continued.

- Reiter, Otis F., Baltimore, Md. Stone gatherer. No. 1,425,544; Aug. 15.
- Reith, George C., Philadelphia, Pa., assignor, by mesne assignments, to National Sales Machine Company, Worcester, Mass. Vending machine and the like. No. 1,421,831; July 4.
- Rejsa, Edward A., Cedar Rapids, Iowa. Window-shade bracket. No. 1,425,052; Aug. 8.
- "Rekord Oeler" Gesellschaft mit beschränkter Haftung. (See Schneeweiss, Johann, assignor.)
- Relay Automatic Telephone Company, Limited, The. (See Herink, Henry J., assignor.)
- Reliable Auto Signal Company. (See Scheller, John M., assignor.)
- Reliance Company, The. (See Wilms, Gustav O., assignor.)
- Reliance Curing Core Limited. (See Holden, John P., assignor.)
- Reliance Elevator Company. (See Anderson, Henry C., assignor.)
- Reliance Machine & Specialty Co. (See Bartlett, Leonard, assignor.)
- Reliance Manufacturing Co. (See Hart, David A., assignor.)
- Reller, Joseph E., and W. Krecker, Long Beach, Calif.; said Krecker assignor to said Reller. Can opener and sealer. No. 1,416,577; May 16.
- Remeikis, Adomas. (See Maculskiys, Augustinas, assignor.)
- Remick, Walter L., Elizabeth, N. J. Gas extractor. No. 1,410,599; Mar. 28.
- Remington Accounting Machine Corporation. (See Boa, Robert G. C., assignor.)
- Remington Accounting Machine Corporation. (See Golber, H., and Poole, assignors.)
- Remington Accounting Machine Corporation. (See Goldberg, Hyman E., (now by judicial change of name Hyman Golber,) assignor.)
- Remington Accounting Machine Corporation. (See Hart, Frederick A., assignor.)
- Remington Accounting Machine Corporation. (See Marshall, Holmes, assignor.)
- Remington Accounting Machine Corporation. (See McCracken, Samuel H., assignor.) (Reissue.)
- Remington Accounting Machine Corporation. (See Poole, Arthur F., assignor.)
- Remington Accounting Machine Corporation. (See Seib, George A., assignor.)
- Remington Accounting Machine Corporation. (See Wahl, John C., assignor.)
- Remington Accounting Machine Corporation. (See Woodward, Oscar, assignor.)
- Remington, Alfred M., assignor to Simonds Manufacturing Company, Fitchburg, Mass. Blade-holding device. No. 1,405,867; Feb. 7.
- Remington, Alfred M., assignor to Simonds Manufacturing Company, Fitchburg, Mass. Hack saw. No. 1,424,378; Aug. 1.
- Remington Arms Company, Inc. (See Maloney, Frank H., assignor.)
- Remington Arms Company, Inc. (See Sorum, Alexander E., assignor.)
- Remington, James H., Waukesha, Wis. Priming cock. No. 1,435,553; Nov. 14.
- Remington Photograph Corporation. (See Kuhn, Edmond, assignor.)
- Remington, Stillman L. (See Balser, Joseph W., assignor.)
- Remington Typewriter Company. (See Barney, Edwin E., assignor.)
- Remington Typewriter Company. (See Barr, J. H., and Barney, assignors.)
- Remington Typewriter Company. (See Barr, John H., assignor.)
- Remington Typewriter Company. (See de Clamecy, Philippe, assignor.)
- Remington Typewriter Company. (See Dodge, Elbert S., assignor.)
- Remington Typewriter Company. (See Gehrett, Walter P., assignor.)
- Remington Typewriter Company. (See Holden, Joseph B., assignor.)
- Remington Typewriter Company. (See McKay, Henry N., assignor.)
- Remington Typewriter Company. (See Phelps, Joseph, assignor.)
- Remington Typewriter Company. (See Seib, George A., assignor.)
- Remington Typewriter Company. (See Smith, Arthur W., assignor.)
- Remington Typewriter Company. (See Woodward, Oscar, assignor.)
- Remington Typewriter Company. (See Yaw, Clio B., assignor.)
- Rommel Manufacturing Company. (See Rimmel, Nicholas, assignor.)
- Rimmel, Nicholas, assignor to Rimmel Manufacturing Company, Kewaskum, Wis. Concrete mixer. No. 1,440,174; Dec. 26.
- Remmen, John B., and H. J. Nicolai, Montevideo, Minn. End-thrust device. No. 1,402,180; Jan. 3.
- Remsnider, George, Belleville, Ill. Machine for fitting punches and dies. No. 1,431,253; Oct. 10.
- Remus, Stefano, Genoa, Italy. Sparking plug for internal-combustion engines. No. 1,423,152; July 18.
- Remy Electric Company, The. (See Kennington, William O., assignor.) (Reissue.)
- Remy Electric Company, The. (See Replogle, James B., assignor.)
- Remy, Louis J., Philadelphia, Pa. Cigarette holder. No. 1,435,023; Nov. 7.
- Renaker, J. R. (See Graydon, Andrew, assignor.)
- Renard, Albert. (See Renard, Pierre and A.)
- Renard, Pierre and A., Nonancourt, France. Power loom for the manufacture of oriental, Persian, wound, and other knot-stitch carpets. No. 1,437,682; Dec. 5.
- Renaud, Aristide F., New Orleans, La., assignor to The Renaud Company, Cincinnati, Ohio. Rivet-feeding mechanism. No. 1,416,509; May 16.
- Renaud, Aristide F., New Orleans, La., assignor to The Renaud Company, Cincinnati, Ohio. Rivet-feeding mechanism. No. 1,421,310; June 27.
- Renaud Company, The. (See Renaud, Aristide F., assignor.)
- Renault, Gustave A., Paris, France. Chain especially designed for jewelry. No. 1,439,978; Dec. 26.
- Renault, Louis. (See Fuchs, Ernest, assignor.)
- Renault, Louis. (See Leisse, Pierre L., assignor.)
- Renault, Louis. (See Saives, Léon, assignor.)
- Rench, W. S. (See Ericson, Louis E., assignor.)
- Renda, Anthony, New York, N. Y. Pan with overflow-alarm device. No. 1,421,717; July 4.
- Rendell, Alan W., London, England, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-valve device. No. 1,403,870; Jan. 17.
- Renfrew, William, Watertown, Mass. Jeweler's calipers. No. 1,410,123; Mar. 21.
- Renfro, Fred M. (See Wood, Ira C., assignor.)
- Renholdt, John E., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Stop mechanism for talking machines. No. 1,432,727; Oct. 17.
- Renke, Robert, assignor to Lewis and Roth Corporation, Philadelphia, Pa. High-voltage air-break switch. No. 1,415,708; May 9.
- Renne, James D., Kimball, Nebr. Dumping mechanism for automobile trucks. No. 1,433,743; Oct. 31.
- Renner, George J., et al. (See Smith, Harry W., assignor.)
- Renner, Harold G., Detroit, Mich. Carburetor. No. 1,428,558; Sept. 12.
- Renner, Harold G., Gisborne, New Zealand. Carburetor. No. 1,429,534; Sept. 19.
- Renner & Maras. (See Maras, Hynek, assignor.)
- Rennerfelt, Ivar, Djursholm, Sweden. Electric furnace. No. 1,428,908; Sept. 12.
- Rennerfelt, Ivar, Djursholm, Sweden. Electric furnace. No. 1,428,909; Sept. 12.
- Rennerfelt, Ivar, Djursholm, Sweden. Operating electric furnaces. No. 1,428,910; Sept. 12.
- Rennerfelt, Ivar, Djursholm, Sweden. Electric furnace. No. 1,431,424; Oct. 10.
- Rennie, Arthur L., Jamaica, N. Y. Brake-band lining. No. 1,424,852; Aug. 8.
- Reno, Charles E., Webster Groves, Mo. Automobile radiator. No. 1,431,043; Oct. 3.
- Reno, Jesse W., New York, N. Y. Device for raising sunken vessels. No. 1,416,754; May 23.
- Reno Optical Company. (See Robinson, John L., assignor.)
- Renouf, Harry B., Kent, Ohio. Thawing device. No. 1,431,044; Oct. 3.
- Renshaw, Charles E., East Orange, N. J., assignor to The Newman Clock Company, Inc., New York, N. Y. Supervisory mechanism. No. 1,407,810; Feb. 28.
- Renshaw, Charles E., East Orange, N. J., assignor to The Newman Clock Company, Inc., New York, N. Y. Supervisory mechanism. No. 1,407,819; Feb. 28.
- Renshaw, Charles E., and E. C. Healy, East Orange, N. J., assignors to The Newman Clock Company, Inc., New York, N. Y. Supervisory mechanism. No. 1,407,807; Feb. 28.
- Renshaw, Charles E., and E. C. Healy, East Orange, N. J., assignors to The Newman Clock Company, Inc., New York, N. Y. Supervisory mechanism. No. 1,407,808; Feb. 28.
- Renshaw, Charles E., and E. C. Healy, East Orange, N. J., assignors to The Newman Clock Company, Inc., New York, N. Y. Supervisory mechanism. No. 1,407,812; Feb. 28.
- Renshaw, Charles E., and E. C. Healy, East Orange, N. J., assignors to The Newman Clock Company, Inc., New York, N. Y. Supervisory mechanism. No. 1,407,813; Feb. 28.
- Renshaw, Charles E., and E. C. Healy, East Orange, N. J., assignors to The Newman Clock Company, Inc., New York, N. Y. Supervisory mechanism. No. 1,407,817; Feb. 28.
- Renshaw, Charles E., East Orange, N. J., and H. C. Davis, assignors to The Newman Clock Company, Inc., New York, N. Y. Supervisory mechanism. No. 1,407,818; Feb. 28.
- Renshaw, Richard A., Woodhaven, N. Y., assignor to American Telephone and Telegraph Company. Means for and method of reducing crosstalk in four-wire circuits. No. 1,435,980; Nov. 21.
- Renstrom, Elmer F., et al. (See Tobin, Kenneth J., assignor.)
- Rente, Henry J., et al. (See Sproat, Harry J., assignor.)
- Rentscher, Joseph, Chicago, Ill. Toy telephone. No. 1,426,504; Aug. 22.
- Renwick, Charles S. (See Tittmore, F. A., and Renwick.)

Alphabetical list of patentees—Continued.

- Renwick, Frank F. (See Agnew, A. J., and Renwick.)
 Renwick, Victor D., Jr., Norristown, Pa. Lens holder for headlights. No. 1,404,649; Jan. 24.
 Renzelberg, August, assignor to Firm Reisszeugfabrik Eichmüller & Co., Nuremberg, Germany. Straight-line guide for the handles of compasses. No. 1,425,133; Aug. 8.
 Renzenbrink, Harry F., et al. (See Haynes, Guy R., assignor.)
 Replogle, Daniel B., Berkeley, Calif. Pneumatic cleaner or suction tool. No. 1,403,524; Jan. 17.
 Replogle, Daniel B., Berkeley, Calif. Dust collector for pneumatic cleaners. No. 1,416,876; May 23.
 Replogle, James B., Detroit, Mich., assignor to The Remy Electric Company. Centrifugal cut-out. No. 1,402,445; Jan. 3.
 Replogle, James B., Detroit, Mich., assignor to The Remy Electric Company. Engine governor. No. 1,424,140; July 25.
 Replogle, Mark A., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Buffer for tires. No. 1,426,910; Aug. 22.
 Replogle, Wilbert C., Detroit, Mich. Fuel-tank-control valve. No. 1,426,505; Aug. 22.
 Repp, William H., assignor to Projection Optics Company, Inc., Rochester, N. Y. Projection lens. No. 1,415,002; May 2.
 Reppe, Andrew, Winifred, Mont. Engine. No. 1,406,896; Feb. 14.
 Repper, Alois, Kladno, Czecho-Slovakia. Hardness-testing apparatus. No. 1,430,261; Sept. 26.
 Reppetto, Harvey B., assignor to Whitaker-Glessner Company, Wheeling, W. Va. Oil stove. No. 1,402,315; Jan. 3.
 Reppetto, Harvey B., assignor to Whitaker-Glessner Company, Wheeling, W. Va. Burner for oil stoves. No. 1,402,316; Jan. 3.
 Republic Carbon Company. (See Fitz Gerald, Francis A. J., assignor.)
 Requa, Frederick L., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Regulating system. No. 1,431,254; Oct. 10.
 Resanovich, Mike R., Woodlawn, Pa. Fire-extinguishing composition. No. 1,411,301; Apr. 4.
 Resch, Henry, Bayonne, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Typewriting machine. No. 1,419,172; June 13.
 Research Corporation. (See Bradley, Linn, assignor.)
 Research Corporation. (See Davis, Harvey N., assignor.)
 Research Corporation. (See Fisher, Harmon F., assignor.)
 Research Corporation. (See Hedberg, Carl W. J., assignor.)
 Research Corporation. (See Laughlin, Myron P., assignor.)
 Research Corporation. (See Lewers, George R., assignor.)
 Research Corporation. (See Wintermute, Harry A., assignor.)
 Resnik, Ernest D., New Haven, Conn. Dentifrice. No. 1,435,498; Nov. 14.
 Respass, John B., Washington, N. C. Metallic railway tie. No. 1,410,509; Mar. 21.
 Respass, Roland B., New York, N. Y., assignor, by mesne assignments, to Respro Inc., Cranston, R. I. Making leather substitute. No. 1,411,376; Apr. 4.
 Respass, Roland B., New York, N. Y., assignor, by mesne assignments, to Respro Inc., Cranston, R. I. Making artificial leather. No. 1,416,064; May 16.
 Respro Inc. (See Respass, Roland B., assignor.)
 Ressler, George S., Lansing, Mich. Vehicle lamp dimmer. No. 1,426,774; Aug. 22.
 Restak, Thomas C., East Rochester, Pa. Bolt. No. 1,427,635; Aug. 29.
 Restaurant Machinery Company. (See Zsoldos, Julius, assignor.)
 Rettig, Henry, Redlands, Calif. Cultivator. No. 1,404,544; Jan. 24.
 Rettig, William M., et al., trustees. (See Kluefer, Guy L., assignor.)
 Retzbach, Edward J., trustee. (See Retzbach, Edward J., assignor.)
 Retzbach, Edward J., St. Louis, Mo., assignor to said Edward J. Retzbach, trustee. Making and packaging pastry. No. 1,411,223; Mar. 25.
 Retzer, Christian F., and C. Lezard, Superior, Wis. Brake-beam hanger. No. 1,426,506; Aug. 22.
 Reubold, Adam, New York, N. Y. Ham-boning device. No. 1,435,877; Nov. 14.
 Reus Bros. Co., The. (See Morrow, S. W., and Schlutter, assignors.)
 Reusch, Paul R. (See Reusch, W., Altheide and Reusch.)
 Reusch, William H., Altheide, and P. R. Reusch, Anaheim, Calif. Dustless automobile breather. No. 1,437,360; Nov. 28.
 Reuse, Joseph C., Libertyville, Ill. Traction coupling. No. 1,422,129; July 11.
 Reuter, Ernest. (See Seillon, M., and Reuter.)
 Revell, Leonel F. (See Dages, Louis P., assignor.)
 Revere Rubber Company. (See Fisher, George F., assignor.)
 Revere Rubber Company. (See Gibbons, Willis A., assignor.)
 Revere Rubber Company. (See Gilson, H. R., and Fisher, assignors.)
 Revere Rubber Company. (See Gilson, Henry R., assignor.)
 Revere Rubber Company. (See Huestis, Thomas B., assignor.)
 Revere Rubber Company. (See Keith, C. H., and Madge, assignors.)
 Revere Rubber Company, The. (See Mitzel, Harvey F., assignor.)
 Revermann, Gustaaf A. W., Utrecht, Netherlands. Shovel stoker. No. 1,438,785; Dec. 12.
 Revill, Edward M. B. (See Willoughby, E. F., and Revill.)
 Revny, Alexander, Vancouver, British Columbia, Canada. Railway velocipede. No. 1,436,532; Nov. 21.
 Revolver Company. (See Boeck, William E., assignor.)
 Revolver Company. (See Germond, Henry S., Jr., assignor.)
 Rew, Leslie L. (See Lewis, J. A., and Rew.)
 Rex, Chauncey R. H. (See Hawkins, Thomas, assignor.)
 Rex, Harvey E., San Francisco, Calif. Razor stop. No. 1,433,038; Oct. 24.
 Rex Machine Tool Co. (See Callebert, Alfonse, assignor.)
 Rex Manufacturing Company. (See Hull, Matthew R., assignor.)
 Rex Tractor Co. (See Sweet, Howard M., assignor.)
 Rexroth, Fannie W., administratrix. (See Rexroth, John J., assignor.)
 Rexroth, John J., deceased, Chicago, Ill., by F. W. Rexroth, administratrix. Door hanger. No. 1,405,374; Jan. 31.
 Rexworthy, Harold S. (See Behneman, F. J., and Rexworthy.)
 Rey, Oscar, Zurich, Switzerland. Insulating tubing for electrical conduits and making same. No. 1,438,858; Dec. 12.
 Reyburn, John R., Fairfield, Conn., assignor to American Chain Co., Inc. Connecting and tightening device. No. 1,404,319; Jan. 24.
 Reyburn, John R., Fairfield, assignor to American Chain Company, Incorporated, Bridgeport, Conn. Chain non-skid unit. No. 1,416,382; May 16.
 Reyburn, John R., Fairfield, assignor to American Chain Company, Incorporated, Bridgeport, Conn. Colled-wire sash-chain-attaching device. No. 1,418,972; June 6.
 Reyes, Manuel C., Mexico, Mexico. Propeller for aeroplanes. No. 1,432,784; Oct. 24.
 Raymond, Martin H., Binghamton, N. Y. Gauging leather. No. 1,437,683; Dec. 5.
 Reyneau, Paul O. (See Dolph, N. L., and Reyneau.)
 Reynold, Claudius. (See Dubois, C. L., and Reynold.)
 Reynolds, Albert, San Jose, Calif. Weighing machine. No. 1,410,957; Mar. 28.
 Reynolds, Arthur W., Newtown, Conn. Spring tooth for cultivators. No. 1,418,173; May 30.
 Reynolds, Burl A., Topeka, Kans. Oil burner. No. 1,439,760; Dec. 26.
 Reynolds, Charles B. and C. D., Whittier, Calif. Pipe and tool joint. No. 1,407,335; Feb. 21.
 Reynolds, Charles B. and C. D., Whittier, Calif. Tool-joint lock. No. 1,417,411; May 23.
 Reynolds, Charles J., Melrose, Mass. Inflation valve. No. 1,419,471; June 13.
 Reynolds, Clarence D. (See Reynolds, Charles B. and C. D.)
 Reynolds, Earnest E., Seattle, Wash. Stovepipe holder. No. 1,435,554; Nov. 14.
 Reynolds, Floyd. (See Pease, E. S., and Reynolds.)
 Reynolds, Forrest. (See Rossi, D. A., and Reynolds.)
 Reynolds, George A., et al. (See Wilbur, Frederick H., assignor.)
 Reynolds, Harry N., et al. (See Howard, Hal, assignor.)
 Reynolds, Henry S., Brooklyn, assignor to Meurer Steel Barrel Company, Inc., New York, N. Y. Sput for metallic receptacles. (Reissue.) No. 15,413; July 18.
 Reynolds, James J., St. Louis, Mo. Flexible pipe joint. No. 1,434,631; Nov. 7.
 Reynolds, James N., Cleveland, Ohio. Device for bending metal rods or tubes. No. 1,430,323; Sept. 26.
 Reynolds, John A., Detroit, Mich. Roasting and packing ground or whole coffee. No. 1,426,011; Aug. 15.
 Reynolds, John F., Pasadena, and A. P. Worthington, Los Angeles, Calif. Toy. No. 1,433,098; Oct. 24.
 Reynolds, John N. (See Craft, E. B., and Reynolds.) (Reissue.)
 Reynolds, Joshua C., Owensboro, Ky. Apparatus for curing tobacco. No. 1,413,783; Apr. 25.
 Reynolds, Kenyon L., Breckenridge, Tex., assignor to Wallace and Brooks, Incorporated. Oil-seal gas separator. No. 1,432,208; Oct. 17.
 Reynolds, Lyman G., and A. L. Holman, Toronto, Ontario, Canada. Wrench. No. 1,428,805; Sept. 12.
 Reynolds Manufacturing Company. (See Reynolds, Samuel W., assignor.)
 Reynolds, Marion. (See Staggs, F., and Reynolds.)
 Reynolds, Mercer, Chattanooga, Tenn. Refining oils. No. 1,419,760; June 13.
 Reynolds, Morley P., assignor to The W. S. Tyler Company, Cleveland, Ohio. Screening apparatus. No. 1,423,021; July 18.
 Reynolds, R. J., Tobacco Company. (See Little, George H., assignor.)
 Reynolds, R. J., Tobacco Company. (See Strickland, Charles V., assignor.)

Alphabetical list of patentees—Continued.

- Reynolds, Richard S., Louisville, Ky. Wrapper. No. 1,421,027; June 27.
- Reynolds, Richard S., Louisville, Ky. Cigar wrapper. No. 1,430,028; Sept. 26.
- Reynolds, Robert E., New Orleans, La. Grading machine. No. 1,432,906; Oct. 24.
- Reynolds, Robert W., Darlinghurst, near Sydney, New South Wales, Australia. Electrical heater resistance element. No. 1,422,130; July 11.
- Reynolds, Samuel W., et al. (See Wilbur, Frederick H., assignor.)
- Reynolds, Samuel W., Scranton, Pa., assignor to Reynolds Manufacturing Company, Toledo, Ohio. Rein spreader and guide for harness. No. 1,406,415; Feb. 14.
- Reynolds Spring Company. (See Van Hove, Desire H., assignor.)
- Reynolds, Stephen R., Enid, Mont. Machine for bending wire. No. 1,418,470; June 6.
- Reynolds, Sydney W., Ripon, Calif. Spectacle-case clip. No. 1,411,065; Mar. 28.
- Reynolds, Thomas A., Crafton, assignor to The McConway & Torley Company, Pittsburgh, Pa. Molding machine. No. 1,417,568; May 30.
- Reynolds, Vince D., Fairmont, W. Va. Mine-door latch. No. 1,432,258; Oct. 17.
- Reynolds, William, Philadelphia, Pa. Train-controlling mechanism. No. 1,436,112; Nov. 21.
- Reynolds, William A., et al. (See Leonard, H. C., and Wenstrom, assignors.)
- Reynolds, William B., Roundup, Mont. Self-dumping mine cage. No. 1,410,124; Mar. 21.
- Reynolds, William F. R. (See Chapman, J., and Reynolds.)
- Reyoun, Orley C., and Fred A. Putnam, assignors to F. A. Putnam Mfg. Co., Keene, N. H. Traction chain for tractors. No. 1,409,577; Mar. 14.
- Rhedans, Anna L., and A. M. Hitzert, St. Louis, Mo. Grave lining. No. 1,426,600; Aug. 22.
- Rhees, Herbert P., G. Farbro, and E. Stevens, Drumright, Okla. Sucker-rod socket. No. 1,434,632; Nov. 7.
- Rheinauer, Moritz, New York, N. Y. Machine for marbling paper. No. 1,405,163; Jan. 31.
- Rheinische Metallwaaren- und Maschinenfabrik. (See Graubeding, Oskar, assignor.)
- Rheinische Metallwaaren- und Maschinenfabrik. (See Völler, K., and Graubeding, assignors.)
- Rhenania Verein Chemischer Fabriken Aktien-Gesellschaft, Zweigniederlassung Mannheim. (See Rüsberg, Friedrich, assignor.)
- Rhenstrom, Anthony, Kenosha, Wis. Bed-spring fabric. No. 1,405,868; Feb. 7.
- Rhenstrom, Anthony, Kenosha, Wis. Wire bending and knotting machine. No. 1,429,253; Sept. 19.
- Rhenstrom, Anthony, Kenosha, Wis., and O. H. Watkins, Marshalltown, Iowa, assignors to H. Richardson, Chicago, Ill. Wire-link fabric machine. No. 1,424,379; Aug. 1.
- Rhind, Hugh M., Wheaton, Ill. Golf club. No. 1,433,744; Oct. 31.
- Rhine, Marvin L., Fort Douglas, Utah. Engine. No. 1,432,788; Oct. 24.
- Rhinevault, Harry A., Chicago, Ill. Machine for making helically-coiled wire articles such as springs and the like. No. 1,431,757; Oct. 10.
- Rhoades, Aaron L., Abilene, Kans. Restraining device. No. 1,438,331; Dec. 12.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Warp stop motion for looms. No. 1,405,441; Feb. 7.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Filling clamping and parting means for looms. No. 1,409,314; Mar. 14.
- Rhoades, Alonzo E., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Feeler motion for looms. No. 1,413,784; Apr. 25.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,416,510; May 16.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Battery feed for automatic filling-replenishing looms. No. 1,417,861; May 30.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,418,471; June 6.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Filling clamping and parting mechanism for looms. No. 1,418,472; June 6.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Warp stop motion. No. 1,419,077; June 6.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Doffing device for spoolers. No. 1,425,053; Aug. 8.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Warp-tension-locking mechanism for looms. No. 1,427,636; Aug. 29.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Filling clamping and parting mechanism for looms. No. 1,427,637; Aug. 29.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Filling clamping and parting means for looms. No. 1,427,638; Aug. 29.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Filling clamping and parting mechanism for looms. No. 1,427,639; Aug. 29.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Loom shuttle. No. 1,430,187; Sept. 26.
- Rhoades, La. Quinno, Fremont, Ohio. Printing press. No. 1,409,240; Mar. 14.
- Rhoades, Mayham W., Highland, N. Y. Portable fence. No. 1,429,774; Sept. 19.
- Rhoades, Philip E., New York, N. Y., and W. M. Welling, Long Valley, N. J., assignors to Standard Armature Winding Machine Company, Inc. Armature-winding machine. No. 1,408,639; Mar. 7.
- Rhoades, Thomas, assignor of one-quarter to T. W. Rhoades and one-quarter to F. Chiarelli, Hanna, Utah. Motor sleigh. No. 1,409,408; Mar. 14.
- Rhoades, Thomas W., et al. (See Rhoades, Thomas, assignor.)
- Rhoads, Charles S., jr., Yonkers, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y. Portable electric lantern. No. 1,432,907; Oct. 24.
- Rhoads, Errett S. (See Ross, V., and Rhoads.)
- Rhoads, Harry A., Leetonia, Ohio. Trolley shoe. No. 1,430,188; Sept. 26.
- Rhoads, Harry E., assignor to The Willys-Overland Company, Toledo, Ohio. Oil pump. No. 1,410,125; Mar. 21.
- Rhoads, Harry E., assignor to The Willys-Overland Company, Toledo, Ohio. Oil pump. No. 1,421,718; July 4.
- Rhoads, Thomas H. (See Ayres, E. B., and Rhoads.)
- Rhode, Lewis W. (See Eckles, Noble, assignor.)
- Rhodes, Benjamin D., Milwaukee, Wis. Punch-press guard. No. 1,416,511; May 16.
- Rhodes, Bert O., Kalamazoo, Mich. Universal joint. No. 1,417,689; May 30.
- Rhodes, Charles J., and T. H. Webb, Wakefield, England. Press for operating upon metal and other sheets. No. 1,416,877; May 23.
- Rhodes, Edmund O., Pittsburgh, Pa., and Robert C. Haff, Hagerstown, Md., assignors, by mesne assignments, to Western Precipitation Company, Los Angeles, Calif. Obtaining potash values from potassiferous materials. No. 1,411,518; Apr. 4.
- Rhodes, Frederick H., and Alfred E. Roberts, Philadelphia, Pa., assignors to The Barrett Company. Preparing resins. No. 1,413,558; Apr. 18.
- Rhodes, Jay B., Kalamazoo, Mich. Dispensing can. No. 1,403,636; Jan. 17.
- Rhodes, Jay B., Kalamazoo, Mich. Dispensing can. No. 1,403,637; Jan. 17.
- Rhodes, Jay B., Kalamazoo, Mich. Shipping case and tray. No. 1,431,255; Oct. 10.
- Rhodes, John A., Macon, assignor of one-third to A. E. Jordan and one-third to H. H. Newman, Sandersville, Ga. Spraying apparatus. No. 1,416,065; May 16.
- Rhodes, Robert W., Greensburg, Pa. Scraper. No. 1,434,914; Nov. 7.
- Rhodes, Rowland P., assignor to Electric Controller Company, Indianapolis, Ind. Heating element for incubators. No. 1,408,308; Feb. 28.
- Rhodes, Russell I. (See Simmons, P. T., and Rhodes.)
- Rhodes, Russell I., Attleboro Falls, Mass. Box. No. 1,430,029; Sept. 26.
- Rhodes, Russell I., North Attleboro, assignor to The Mason Box Co., Attleboro Falls, Mass. Remaining box. No. 1,405,002; Jan. 31.
- Rhodes, Solon H., Riverside, assignor to International Precipitation Company, Los Angeles, Calif. Process and apparatus for electrical separation of suspended particles from gases. No. 1,413,993; Apr. 25.
- Rhodes, William A., New York, N. Y., assignor to American Telephone and Telegraph Company. Signaling system. No. 1,412,490; Apr. 11.
- Rhodes, William A., New York, N. Y., assignor to American Telephone and Telegraph Company. Desk operator's circuits. No. 1,429,972; Sept. 26.
- Rhofanium Co., The. (See Fahrenwald, Frank A., assignor.)
- Riabouchinski, Dmitri, Guethary, France. Rocket. No. 1,440,175; Dec. 26.
- Rial, Wirt D., assignor to Maryland Refining Company, Ponce City, Okla. Container for storing liquids. No. 1,408,829; Mar. 7.
- Ribble, Charles W., Toledo, Ohio. Lever lock. No. 1,408,225; Feb. 28.
- Ribéra, Charles A. M., and F. A. Serre, Nîmes, France. Automatic coupling device for railway cars. No. 1,427,759; Aug. 29.
- Riblet, Byron C., Spokane, Wash. Automobile signal. No. 1,439,122; Dec. 19.
- Riblet, George E., Long Beach, Calif. Vehicle wheel. No. 1,414,043; Apr. 25.
- Riblet, Royal N., Spokane, Wash. Traffic indicator. No. 1,420,750; June 27.
- Riblett, Lewis C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Apparatus for unwrapping inner tubes. No. 1,415,709; May 9.
- Ricard, Eloi, Melle, assignor to Société Ricard, Allenet & Cie., Distilleries des Deux-Sèvres, Melle (Deux-Sèvres), France. Vulcanizing rubber. No. 1,440,176; Dec. 26.
- Ricardo, Harry R., London, England. Hydrocarbon engine. No. 1,425,054; Aug. 8.

- Ricardo, Harry R., London, England. Rotary pump or compressor. No. 1,412,091; Apr. 11.
- Ricci, Henry, assignor of one-half to B. R. Camp, San Francisco, Calif. Candy-cutting machine. No. 1,433,910; Oct. 31.
- Riccia, Angelo D., Brussels, Belgium. Autotransformer. No. 1,426,775; Aug. 22.
- Riccio, Michael D. S., Jamestown, N. Y. Fire alarm. No. 1,425,287; Aug. 8.
- Rice, Arthur L., deceased, Adams, N. Y.; C. S. Rice, executrix. Water paint. No. 1,423,256; July 18.
- Rice, Barney B., Redlands, Calif. Gripper for job presses. No. 1,402,090; Jan. 3.
- Rice, Caroline S., executrix. (See Rice, Arthur L.)
- Rice, Charles D., West Hartford, Conn. Milling machine. No. 1,407,820; Feb. 28.
- Rice, Chester S., Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,415,266; May 9.
- Rice, Chester W. (See Kellogg, E. W., and Rice.)
- Rice, Cyrus W., Philadelphia, Pa. Determining the quantity of an appropriate chemical that should be added per unit of volume of water in order to fit it for use in the arts. No. 1,405,940; Feb. 7.
- Rice, Frank. (See Schumacher, H. J., and Rice.)
- Rice Gas Engine Company. (See Rice, John V., jr., assignor.)
- Rice, George A., Cambridge, assignor to Acme Electric Heating Company, Boston, Mass. Resistance unit. No. 1,434,225; Oct. 31.
- Rice, George H. (See Bremer, Russell H., assignor.)
- Rice, Harry E., Jr., Springfield, Ohio. Toothbrush. No. 1,404,141; Jan. 17.
- Rice, Henry C. (See Strohl, Carl H., assignor.)
- Rice, Henry M., Knoxville, Tenn. Draft controller for locomotives. No. 1,426,840; Aug. 22.
- Rice Improved Valve & Manufacturing Company. (See Rice, Reece, assignor.)
- Rice, Irving J. (See Carlson, Peter, assignor.)
- Rice, John H. (See Woodhull, L. S., Prentice, and Rice.)
- Rice, John H., Danville, Iowa. Necktie brace. No. 1,425,696; Aug. 15.
- Rice, John V., jr., assignor to Rice Gas Engine Company, Bordentown, N. J. Oscillating internal-combustion engine. No. 1,429,254; Sept. 19.
- Rice, Norman E., Chicago, Ill. Lock for motor vehicles. No. 1,430,587; Oct. 3.
- Rice, Oscar M., Beaver Falls, Pa. Theft-preventing device for motor vehicles. No. 1,402,446; Jan. 3.
- Rice, Reece, assignor, by mesne assignments, to Rice Improved Valve & Manufacturing Company, Indianapolis, Ind. Filling composition. No. 1,429,455; Sept. 19.
- Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Shaft bearing. No. 1,413,425; Apr. 18.
- Rice, Roy E., Bucyrus, Ohio, assignor to Roberts and Schaefer Company, Chicago, Ill. Limit switch for electric-driven hoists. No. 1,423,624; July 25.
- Rice, Samuel J., Chicago, Ill. Automobile jack. No. 1,425,134; Aug. 8.
- Rice, Walter L., Denver, Colo. Charge-forming device for internal-combustion engines. No. 1,406,416; Feb. 14.
- Rice, William A., Jerseyville, Ill. Process of and apparatus for separating and polishing seeds. No. 1,411,519; Apr. 4.
- Rice, William H., Tiger, Ga. Cofferdam construction. No. 1,418,879; June 6.
- Rice & Adams Corporation. (See Adams, Charles S., assignor.)
- Rice & Adams Corporation. (See Alling, E. R., and Wolf, assignors.)
- Rich, Edward P., Chicago, Ill. Compound valve. No. 1,428,254; Sept. 5.
- Rich, Harrison, Grand Rapids, Mich. Cementitious composition and making the same. No. 1,404,060; Jan. 17.
- Rich, Lester J. (See Pernot, F. E., and Rich.)
- Rich, Nick, Haileyville, Okla. Passenger register. No. 1,426,533; Nov. 21.
- Rich-Sampler Knitting Mills Company, The. (See Sampler, Samuel S., assignor.)
- Rich Tool Company. (See Jardine, Robert, assignor.)
- Richard, Alfred, Thalwil, Switzerland. Tool for use in woodworking. No. 1,404,650; Jan. 24.
- Richard, Charles D., New Brighton, assignor to Western Electric Company, Incorporated, New York, N. Y. Electrically-operated timing apparatus. No. 1,412,574; Apr. 11.
- Richard, Joseph A., Southbridge, Mass. Connection for knife handles and blades. No. 1,420,342; June 20.
- Richard, Joseph C., New York, N. Y. Medicine and hygienic food. No. 1,417,412; May 23.
- Richard, Joseph S. (See Eggleston, Benjamin, assignor.)
- Richard, Leroy L., Visalia, Calif. Auxiliary table. No. 1,412,630; Apr. 11.
- Richards, Alfred H. and N. E., Manville, R. I. Piston. No. 1,406,684; Feb. 14.
- Richards, Benjamin, Canton, Mass., assignor to The Newman Clock Company, Inc., New York, N. Y. Recording attachment for valves and the like. No. 1,407,806; Feb. 28.
- Richards, Carroll H. (See MacTavish, Duncan, assignor.)
- Richards, Charles A., Chicago, Ill. Multicolor-printing press. No. 1,417,769; May 30.
- Richards, Charles A., Chicago, Ill., and M. M. Riester, Buffalo, N. Y. Multicolor-printing press. No. 1,417,569; May 30.
- Richards, Charles E. (See Richards, James E. W. and C. E.)
- Richards, David R., St. Louis, Mo. Window construction. No. 1,437,269; Nov. 28.
- Richards, Earl M., Wilkesburg, Pa. Fluid-pressure brake. No. 1,424,033; July 25.
- Richards, Francis H., Hartford, Conn. Expansion joint. No. 1,420,217; June 20.
- Richards, Frank F., assignor to Brown & Bigelow, St. Paul, Minn. Releasable fingers for offset presses. No. 1,424,260; Aug. 1.
- Richards, George, L. N. Burt, London, and J. E. Freeborn, Walthamstow, England. Milling screw threads. No. 1,427,169; Aug. 29.
- Richards, George M., Philadelphia, Pa. Multistage unloader. No. 1,422,376; July 11.
- Richards, George W., assignor of one-half to W. P. Geib, Altoona, Pa. Truck for gas tanks. No. 1,408,400; Feb. 28.
- Richards, James E. W. and C. E., Arapahoe, Nebr. Stock waterer. No. 1,429,535; Sept. 19.
- Richards, John J., Brookline, Mass. Choke controller. No. 1,432,789; Oct. 24.
- Richards, John J., jr., Brookline, Mass. Reserve provider for fuel tanks. No. 1,432,259; Oct. 17.
- Richards, John P., Tulsa, Okla. Combined desk and chair. No. 1,424,380; Aug. 1.
- Richards, Mikel T., Bristol, Tenn. Device for holding lumber to be cut. No. 1,420,218; June 20.
- Richards, Norman E. (See Richards, Alfred H. and N. E.)
- Richards, Paul P. E., assignor of one-half to A. J. Carter, Omaha, Nebr. Train-stopping mechanism. No. 1,422,908; Oct. 24.
- Richards, Thomas E., Jr. (See Lippert, P., and Richards.)
- Richards, Walter E. W., Southall, England. Manufacture of molded articles from cement. No. 1,408,401; Feb. 28.
- Richards, William H., Knoxville, Tenn. Apparatus for casting filings for teeth. No. 1,421,988; July 4.
- Richards-Wilcox Manufacturing Company. (See Phillips, Ellis J. G., assignor.)
- Richardson, Alfred D., et al. (See Busby, Robert S., assignor.)
- Richardson, Alfred J. (See Church, William H., assignor.)
- Richardson, Bayard E., assignor to Mechano Gear Shift Company, Grand Rapids, Mich. Transmission mechanism. No. 1,413,058; Apr. 18.
- Richardson, Benjamin, Stourbridge, England. Device for suspending bowls and the like. No. 1,419,307; June 13.
- Richardson, Brodie J., and C. S. Barber, Waterbury, Conn. Hand-bag lock. No. 1,431,758; Oct. 10.
- Richardson, Charles F., and M. S. Ferguson, Kokomo, Ind. Car fender or guard. No. 1,424,590; Aug. 1.
- Richardson, Charles G., assignor to Parks & Woolson Machine Company, Springfield, Vt. Perch clock. No. 1,432,622; Oct. 17.
- Richardson, Charles V., Saffron Walden, England. Collapsible carriage. No. 1,426,601; Aug. 22.
- Richardson Company, The. (See Lukens, Alan R., assignor.)
- Richardson, Daniel J., and H. T. Wheeler, Washington, D. C. Coin controlled observation apparatus. No. 1,434,845; Nov. 7.
- Richardson, E. N., et al., trustees. (See Larsen, Edward A., assignor.)
- Richardson, Earl H., Ontario, Calif., assignor to Edison Electric Appliance Company, Inc. Electrically-heated device. No. 1,439,979; Dec. 26.
- Richardson, Emmitt D., Cawker City, Kans. Feeder. No. 1,427,640; Aug. 29.
- Richardson, Ernest, College Hill Borough, Pa. Thermometer. No. 1,423,257; July 18.
- Richardson, Francis A., San Francisco, Calif. Apparatus for determining the position of machine tools. No. 1,404,545; Jan. 24.
- Richardson, Frank S., Willards, Md. Gate. No. 1,430,851; Oct. 3.
- Richardson, Frederick J. (See Webster, D. B., and Richardson.)
- Richardson, G. M. (See Dross, William, assignor.)
- Richardson, George J., assignor to American Spotless Street System Inc., Petersburg, Va. Combined trash receptacle and advertising carrier. No. 1,424,519; Aug. 1.
- Richardson, George J., and W. Sachs, assignors to American Spotless Street System, Inc., Petersburg, Va. Combined trash receptacle and advertising carrier. No. 1,424,520; Aug. 1.
- Richardson, George R., Denbigh, N. Dak. Running gear. No. 1,423,153; July 18.
- Richardson, Henry. (See Rhenstrom, A., and Watkins, assignors.)
- Richardson, Howard E. (See Shawver, G. D. and Richardson.)
- Richardson, James H., Faulkton, S. Dak. Foldable ironing board. No. 1,407,821; Feb. 28.
- Richardson, John, West Berkeley, assignor of one-half to M. B. Richardson, Berkeley, Calif. Water heater. No. 1,403,109; Jan. 10.

Alphabetical list of patentees—Continued.

- Richardson, John H., Wakefield, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. No. 1,412,423; Apr. 11.
- Richardson, Lawrence. (See Cramer, Howard, assignor.)
- Richardson, Lawrence. (See Lamont, J. A., and Richardson.)
- Richardson, Lawrence, Louisville, Ky. Feeding device for locomotive tenders. No. 1,426,675; Aug. 22.
- Richardson, Linwood T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Plastic composition. No. 1,427,911; Sept. 5.
- Richardson, Linwood T., New Brunswick, N. J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Making electrical resistance units and the like. No. 1,439,123; Dec. 19.
- Richardson, Luther W., Rusby, Va. Cushioned wheel. No. 1,432,569; Oct. 17.
- Richardson, Mary B. (See Richardson, John, assignor.)
- Richardson, O. W., & Co. (See Grim, Cyrus, assignor.)
- Richardson, Reginald, and J. F. Key, Overton, England. Cylinder mold for paper-making machines. No. 1,411,870; Apr. 4.
- Richardson, Richard, et al. (See Gerling, Frederick, assignor.)
- Richardson, Richard, et al. (See Gerling, Frederick A., assignor.)
- Richardson, Robert N., Los Angeles, Calif. Air cooler. No. 1,428,661; Sept. 12.
- Richardson, Rod and Reel Company. (See Rawson, Homer E., assignor.)
- Richardson, Rodney G., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,439,124; Dec. 19.
- Richardson, Roy, Martinsburg, W. Va. Snow eradicator. No. 1,402,091; Jan. 3.
- Richardson, Talbert N. (See Williamson, E. H., and Richardson.)
- Richardson, Walter E. (See McDill, Rex D., assignor.)
- Richardson, Willard S., Quebec, Quebec, Canada. Clamping device for stair carpets. No. 1,402,253; Jan. 3.
- Richardson, William, jr. (See McKenzie, L., and Richardson.)
- Richardson, William B., Wilmington, N. C. Brown dye and making same. No. 1,412,707; Apr. 11.
- Richardson, William D., assignor to Swift & Company, Chicago, Ill. Regeneration or reactivation of catalyzers. No. 1,412,219; Apr. 11.
- Richardson, William D., assignor to Swift & Company, Chicago, Ill. Catalyst and producing the same. No. 1,419,936; June 20.
- Richardson, William R. (See Warwick, Charles, assignor.)
- Richardson, Zachary C., Baton Rouge, La. Pipe wrench. No. 1,412,708; Apr. 11.
- Richer, Joseph E., and J. O. Hessler, assignors to Star Tool & Manufacturing Company, Chicago, Ill. Lubricating pump. No. 1,408,470; Mar. 7.
- Richert, F. W. (See Miller, Bert C., assignor.)
- Richey, William A., and C. H. Rowles, Akron, Ohio. Gasoline and oil saver. No. 1,421,567; July 4.
- Richey, William F., Ashtabula, Ohio. Brick-scoring mechanism. No. 1,418,880; June 6.
- Richie, David R., Lansdowne, Pa., assignor to S. L. Allen & Co., Inc. Cultivator. No. 1,406,417; Feb. 14.
- Richman, Charles J., et al. (See McCartney, James B., assignor.)
- Richman, Evert F., et al. (See McCartney, James B., assignor.)
- Richman, Walter H., Philadelphia, Pa. Container. No. 1,412,966; Apr. 18.
- Richmond, Carl A., New York, N. Y., assignor to The General Railway Signal Company. Speed-control apparatus for railway cars. No. 1,409,969; Mar. 21.
- Richmond, George E., Enid, Okla. Thrashing machine. No. 1,424,119; July 25.
- Richmond, Harold A., and R. Macdonald, Jr., assignors to General Abrasive Company, Niagara Falls, N. Y. Artificial corundum and making same. No. 1,418,785; Apr. 25.
- Richmond, Henry E., Bennington, Vt. Knockdown wardrobe. No. 1,429,456; Sept. 19.
- Richmond, Howard B. (See Althaus, Walter G., assignor.)
- Richmond, John E., Eugene, Oreg. Tooth crown. No. 1,431,425; Oct. 10.
- Richmond Radiator Company. (See Heberling, Ralph H., assignor.)
- Richmond, Robert E., assignor to J. and W. A. Elliott Company, Minneapolis, Minn. Floor-forming form. No. 1,420,863; June 27.
- Richmond, Walter, assignor to J. E. Jenkins, Chicago, Ill. Electric switch mechanism. No. 1,419,898; June 13.
- Richter, Benjamin. (See Barron, Langdon S., assignor.)
- Richter, Charles J., et al. (See Hough, Samuel, assignor.)
- Richter, George A., assignor to Brown Company, Berlin, N. H. Fiber liberation. No. 1,427,125; Aug. 29.
- Richter, George A., assignor to Brown Company, Berlin, N. H. Drying chlorine. No. 1,431,981; Oct. 17.
- Richter, George A., and W. B. Van Arsdal, assignors to Brown Company, Berlin, N. H. Restoring the activity of a catalyst. No. 1,431,982; Oct. 17.
- Richter, Gustav F., Brooklyn, N. Y. Surgical and dental instrument. No. 1,437,995; Dec. 5.
- Richter, Herman F., Los Angeles, Calif. Pneumatic-tire valve. No. 1,420,499; June 20.
- Richter, Johannes, Niederlössnitz-Dresden, Germany. Stringed instrument. No. 1,409,064; Mar. 7.
- Richter, Johannes, Niederlössnitz, near Dresden, Germany. Ribbon attachment for stringed instruments. No. 1,422,784; July 11.
- Richter, Walter E., assignor to Electric Auto-Lite Corporation, Toledo, Ohio. Commutator-segment mounting. No. 1,426,105; Aug. 15.
- Richter, William, Leavenworth, Kans. Gas-pipe-manipulating apparatus. No. 1,427,699; Aug. 29.
- Richter, William H., assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa. Interrupter mechanism. No. 1,418,881; June 6.
- Richter, Willy, Olmsted, Ill. Pressure-gauge regulator. No. 1,409,028; Mar. 7.
- Richter, Willy, Olmsted, Ill. Pressure gauge. No. 1,415,710; May 9.
- Rickard, Fay E., and D. R. Robinson; said Robinson assignor to R. M. Robinson, Chicago, Ill. Sealing machine. No. 1,435,334; Nov. 14.
- Rickard, Warren P., Plymouth, Mass. Hoisting chain. No. 1,427,642; Aug. 29.
- Rickard, William H., and L. G. Walker, Pueblo, Colo. Tire carrier and lock. No. 1,407,580; Feb. 21.
- Rickcord, Reginald V., New York, N. Y. Shoe-polishing apparatus. No. 1,411,935; Apr. 4.
- Ricker, Anton, et al. (See Lindholm, Oscar, assignor.)
- Ricker, Floyd H., Los Angeles, Calif. Brake for self-propelling vehicles. No. 1,435,499; Nov. 14.
- Ricker, Leslie D., Grand Junction, Colo. Cooker. No. 1,438,137; Dec. 5.
- Rickert-Shafer Company. (See Boehm, Rudolph A., assignor.)
- Ricketts, William J., London, England. Controlling and regulating system for dynamos. No. 1,437,361; Nov. 28.
- Ricketts, James E., Kansas City, Mo. Lapping machine. No. 1,420,751; June 27.
- Rickey, Steve, assignor of one-half to S. Chorny, Moosehorn, Manitoba, Canada. Velocipede. No. 1,427,417; Aug. 29.
- Ricks, D. A., et al. (See Johnson, Adolph A., assignor.)
- Ricks, Elbert E., Philadelphia, Pa. Snow-removing machine. No. 1,408,471; Mar. 7.
- Ricks, Fred. (See Gouldbourn, J., and Ricks.)
- Ricks, Fred. (See Jerram, A. E., Gouldbourn, and Ricks.)
- Ricks, Fred, and A. A. Aston, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. No. 1,407,000; Feb. 21.
- Ricks, Hyrum, jr., assignor to Atlas Implement and Tool Company, Limited, Rexburg, Idaho. Earth scraper. No. 1,432,260; Oct. 17.
- Riddell, Guy C., assignor of one-half to W. M. Davidson, Washington, D. C. Grate bar. No. 1,402,795; Jan. 10.
- Riddell, William A., assignor to Eastman Kodak Company, Rochester, N. Y. Film-winding mechanism for cameras. No. 1,422,131; July 11.
- Riddell, William A., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-shutter speed-testing machine. No. 1,431,897; Oct. 10.
- Riddell, William A., assignor to Eastman Kodak Company, Rochester, N. Y. Finder. No. 1,437,817; Dec. 5.
- Riddell, Willis A., Indianapolis, Ind. Car replacer. No. 1,409,970; Mar. 21.
- Riddick, Samuel A., Norfolk, Va. Floor plate and shutter for same for automobiles. No. 1,413,426; Apr. 18.
- Riddle, Robert D., Spartanburg, S. C. Undercasing for motor-vehicle engines. No. 1,422,622; July 11.
- Rideal, Eric K. (See Taylor, H. S., and Rideal.)
- Ridenour, Francis M., Gainesville, Tex. Resilient wheel. No. 1,437,150; Nov. 28.
- Ridenour, Lawrence C., Higbee, Colo. Surcingle. No. 1,436,777; Nov. 28.
- Ridenour, Perry J., Silver City, N. Mex. Automobile attachment. No. 1,424,679; Aug. 1.
- Rideout, Arthur E. (See Kimball, W. D., and Rideout.)
- Rideout, William A., Oshkosh, Wis. Automobile lock. No. 1,427,912; Sept. 5.
- Rider, Fred A., Endicott, N. Y. Gate for gravity carriers. No. 1,418,024; May 30.
- Rider, William K., assignor to Packard Motor Car Company, Detroit, Mich. Airplane. No. 1,415,052; May 9.
- Ridge, Herman D., Chicago, Ill. Scale. No. 1,427,760; Aug. 29.
- Ridge, Leonard C., Toronto, Ontario, Canada. Loose-leaf or card-index device. No. 1,406,226; Feb. 14.
- Ridge, Leonard C., Toronto, Ontario, Canada. Filing apparatus. No. 1,406,227; Feb. 14.
- Ridgway, Ellis B. (See Ridgway, William H. and E. B.)
- Ridgway, Harry W., Denver, Colo. Spark arrester. No. 1,439,262; Dec. 19.
- Ridgway, Herbert N., Winthrop, Mass. Amusement device. No. 1,417,570; May 30.
- Ridgway, William H. and E. B., Coatesville, Pa. Steam hydraulic elevator. No. 1,419,761; June 13.
- Ridings, John H., Coal City, Ill. Jawed tool. No. 1,427,550; Aug. 29.
- Ridington, A. Blair, et al. (See Lowry, George A., assignor.)

- Ridley, George, Highland Park, Mich. Automatic railway signal and stop. No. 1,426,410; Aug. 22.
- Riebeth, Edwin W., Billings, Mont. Spring wheel. No. 1,411,807; Apr. 4.
- Rieck, Philip W., Little Ferry, N. J. Oil can. No. 1,403,197; Jan. 10.
- Riecken, William E., Glendale, assignor to Western Electric Company, Incorporated, New York, N. Y. Moisture proof receptacle. No. 1,426,776; Aug. 22.
- Riedel, Friedrich, Duisburg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Device for dry granulation of slag. No. 1,404,142; Jan. 17.
- Riedel, Johannes, Pinnaroo, South Australia, Australia. Tobacco pipe. No. 1,416,066; May 16.
- Riedel, Robert W., Ault, Colo. Beverage mixer. No. 1,408,033; Feb. 28.
- Riedel, Walter H., St. Paul, Minn. Gravity carrier. No. 1,406,228; Feb. 14.
- Riedesel, Arthur L., Brule, Nebr. Holding clip for pliers. No. 1,409,971; Mar. 21.
- Riedinger, Franz, assignor to firm of Carl Zeiss, Jena, Germany. Horizontal telemeter. No. 1,414,790; May 2.
- Riedler, Gottlieb, Hector, Minn. Runner-attaching device for the axles of wagons. No. 1,418,829; June 6.
- Riedmueller, Jacob, New York, N. Y. Coin-controlled vending machine. No. 1,429,633; Sept. 19.
- Riefschneider, Henry. (See Riefschneider, Walter and H.)
- Riefschneider, Walter and H., Seattle, Wash. Safety rail joint. No. 1,439,191; Dec. 19.
- Riehl, Henry E., Brooklyn, N. Y. Car for pleasure railways. No. 1,404,143; Jan. 17.
- Riehl, Henry E., Brooklyn, N. Y. Draft means for the cars of pleasure vehicles. No. 1,404,144; Jan. 17.
- Riemenschneider, Julius, Milwaukee, Wis. Sifter. No. 1,409,578; Mar. 14.
- Riendeau, Richard J., Aldenville, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tube deflation. No. 1,434,452; Nov. 7.
- Riepiung, Otto C. F., Pinole, Calif. Valve. No. 1,409,470; Mar. 14.
- Ries Engineering Company, The. (See Ries, Kurt F., assignor.)
- Ries, Ferdinand, New York, N. Y. Diamond grinder. No. 1,415,118; May 9.
- Ries, Herbert. (See Clinefelter, J. C., and Ries.)
- Ries, John G. (See Porter, R., and Ries.)
- Ries, Kurt F., assignor to The Ries Engineering Company, Dayton, Ohio. Instrument for generating electric currents for ignition starting and lighting. No. 1,411,643; Apr. 4.
- Riesner, Gerhard, Melrose, Minn. Steering mechanism. No. 1,427,641; Aug. 29.
- Riesner, Michael, Cincinnati, Ohio, assignor, by mesne assignments, to Worthington Pump and Machinery Corporation, New York, N. Y. Automatic plate valve. No. 1,413,059; Apr. 18.
- Riesner, Michael, Cincinnati, Ohio, assignor to Worthington Pump and Machinery Corporation. Air compressor. No. 1,417,571; May 30.
- Riesner, Michael, Cincinnati, Ohio, assignor to Worthington Pump and Machinery Corporation. Automatic plate valve. No. 1,417,690; May 30.
- Riesner, Michael, Cincinnati, Ohio, assignor to Worthington Pump and Machinery Corporation. Automatic plate valve. (Reissue.) No. 15,472; Oct. 17.
- Riester, Mabel M. (See Richards, C. A., and Riester.)
- Riester, Walter P. (See Burhen, Reinhard J., assignor.)
- Riesterer, Robert A., Vancouver, British Columbia, Canada. Film-cleaning device. No. 1,418,830; June 6.
- Rietschel, John, Chicago, Ill. Camper's seat. No. 1,436,908; Nov. 28.
- Rietschel, John, Oak Park, assignor to Tentobed Company, Chicago, Ill. Autobed. No. 1,404,145; Jan. 17.
- Rietveld, Harry, Milwaukee, Wis. Alarm control for dampers. No. 1,428,255; Sept. 5.
- Rietveld, Harry, Milwaukee, Wis. Spatula. No. 1,432,412; Oct. 17.
- Rietzsch, Alfred, administrator. (See Zahn, Robert.)
- Rietzke, Adolph A., assignor of one-half to H. Cornelsen, Texhoma, Okla. Steering device. No. 1,403,708; Jan. 17.
- Rifkin, Joseph, et al. (See Zeitlin, Alexandre, assignor.)
- Riffle, Jerome B., and L. H. Hartman, Uhrichville, Ohio. Kilo. No. 1,411,871; Apr. 4.
- Rigaud, Henri. (See Kendall, William G., assignor.)
- Rigby, John H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-treating machine. No. 1,412,894; Apr. 18.
- Rigby, Joseph S. R. (See Grant, R., and Rigby.)
- Rigert, Herman, Brooklyn, N. Y. Clamp. No. 1,424,034; July 25.
- Rigg, Charles D., Altoona, Pa. Bow for musical instruments. No. 1,427,851; Sept. 5.
- Rigg, Gilbert, assignor to Mining and Metallurgical Process Proprietary Limited, Melbourne, Victoria, Australia. Blast-roasting apparatus and the like. No. 1,421,989; July 4.
- Riggins, David E., Perry, Okla. Permutation lock. No. 1,413,427; Apr. 18.
- Riggle, Lida E. (See Riggle, Thomas M., assignor.)
- Riggle, Thomas M., assignor of one-eighth to L. E. Riggle, Oakland, Calif. Automatic train stop. No. 1,426,321; Aug. 15.
- Riggs, Harry A., St. Louis, Mo. Handle. No. 1,432,413; Oct. 17.
- Riggs, Henry H., Boston, Mass. Speed indicator. No. 1,417,204; May 23.
- Riggs Optical Company. (See Wahlgren, R. M., and Beatty, assignors.)
- Riggs, Ulysses G. (See Warner, F. L., and Riggs.)
- Righter, Guy A., Richmond, Ind. Selector apparatus. No. 1,412,631; Apr. 11.
- Righter, James B., East Ellsworth, Wis. Grain-milling machine. No. 1,429,908; Sept. 19.
- Rightwire, Franklin, Paterson, N. J. Antiskid-chain tightener. No. 1,405,003; Jan. 31.
- Rigsby, G. D., et al. (See Holmes, Frank M., assignor.)
- Rike, Berton I., assignor to The Rike Folding Box Company, Dayton, Ohio. Paper bucket. No. 1,407,483; Feb. 21.
- Rike Folding Box Company, The. (See Rike, Berton I., assignor.)
- Riker, Samuel M., Chester, N. J. Belt buckle. No. 1,406,281; Feb. 14.
- Riker, Samuel M., Chester, N. J. Belt buckle. No. 1,406,282; Feb. 14.
- Riker, Samuel M., Chester, N. J. Crochet needle. No. 1,409,579; Mar. 14.
- Riker, Samuel M., Chester, N. J. Crochet needle. No. 1,409,580; Mar. 14.
- Riker, Samuel M., Chester, N. J. Crochet needle. No. 1,409,581; Mar. 14.
- Riker, Samuel M., Chester, N. J. Embroidery needle. No. 1,428,397; Sept. 5.
- Riker, Samuel M., Chester, N. J. Belt buckle. No. 1,439,528; Dec. 19.
- Riker, Samuel M., Chester, N. J. Belt buckle. No. 1,439,529; Dec. 19.
- Riley, Austin A., assignor of two-thirds to Central States Bridge Company, Indianapolis, Ind. Oil burner. No. 1,423,022; July 18.
- Riley, Charles, Chicago, Ill. Collapsible container. No. 1,437,151; Nov. 28.
- Riley, Clyde C., Goshen, Ind. Flywheel for automobiles. No. 1,406,283; Feb. 14.
- Riley, George, assignor of five per cent to A. W. Lamb, Tombstone, Ariz., fifteen per cent to J. F. Nelson, ten per cent to O. E. Larsen, and thirty-five per cent to R. Riley, Los Angeles, Calif. Valve-operating mechanism for internal-combustion engines. No. 1,413,493; Apr. 18.
- Riley, George B., London, England. Telephone. No. 1,432,623; Oct. 17.
- Riley, Lynn G. (See Brooks, W. G., and Riley.)
- Riley, Lynn G., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,435,257; Nov. 14.
- Riley, Lynn G., Wilkinsburg, and S. B. Schenck, Edgewood Park, Pa., assignors to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,437,075; Nov. 28.
- Riley, Ralph J., Portland, Me. Sprocket wheel. No. 1,421,832; July 4.
- Riley, Robert S., assignor to Sanford Riley Stoker Co., Ltd., Worcester, Mass., a Corporation of Massachusetts. Coal agitator for mechanical stokers. No. 1,409,972; Mar. 21.
- Riley, Robert S., assignor to Sanford Riley Stoker Co., Worcester, Mass. Coal agitator for mechanical stokers. No. 1,413,428; Apr. 18.
- Riley, Robert S., assignor to Sanford Riley Stoker Co., Worcester, Mass. Underfeed stoker. No. 1,418,831; June 6.
- Riley, Ruby, et al. (See Riley, George, assignor.)
- Riley, Victor H., Ada, Ohio. Vehicle signal. No. 1,433,231; Oct. 24.
- Riley, William J. (See Hawley, J. E., and Caps, assignors.)
- Rilleau, Francois M., New York, N. Y. Sustaining element or feather for flying-machine wings. No. 1,428,559; Sept. 12.
- Rimailho, Emile, Paris, France. Endless-track member for the propulsion of vehicles. No. 1,438,859; Dec. 12.
- Rimailho, Emile, assignor to Compagnie des Forges et Acieries de la Marine et D'Homecourt, Paris, France. Vehicle shock absorber. No. 1,409,781; Mar. 14.
- Rimland, Morris. (See Fiss, D., and Rimland.)
- Rimmer, Robert C., et al., trustees. (See Rimmer, Robert C., assignor.)
- Rimmer, Robert C., Carrollton, Mo., assignor to R. C. Rimmer, H. O. Keltner, and O. Sherwood, trustees. Aerial vessel. No. 1,432,209; Oct. 17.
- Rimington, Walter J., Winnipeg, Manitoba, Canada. Mattress. No. 1,421,028; June 27.
- Rinaldi, Joseph, New York, N. Y. Liquid-vending machine. No. 1,430,189; Sept. 26.
- Rindfusz, Ralph E., Northampton, and Voorhees, assignors to American Writing Paper Company, Holyoke, Mass. Recovering flax fiber. No. 1,430,115; Sept. 26.
- Rindt, Vincent R., Winter, Wis. Signal. No. 1,421,990; July 4.
- Rine, Earl H., Washington, Pa. Bottle-cap extractor. No. 1,436,291; Nov. 21.
- Rine, William, Philadelphia, Pa. Tank siphon. No. 1,406,080; Feb. 7.

Alphabetical list of patentees—Continued.

- Rinebold, Wilbert H., Fostoria, Ohio. License-plate holder. No. 1,436,358; Nov. 21.
- Ring, James, Youngstown, Ohio. Fountain pen. No. 1,409,065; Mar. 7.
- Ring, John. (See Heath, Ralph D., assignor.)
- Ring, John F., Jr., Auburn, N. Y. Grease pump. No. 1,429,255; Sept. 19.
- Ring, Paul, Detroit, Mich. Motor-vehicle headlight. No. 1,439,712; Dec. 26.
- Ringe, John C., Stratford, Conn., assignor to The Singer Manufacturing Company. Sewing machine. No. 1,404,146; Jan. 17.
- Ringe, John C., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Strip guiding and controlling attachment for sewing machines. No. 1,422,808; July 11.
- Ringe, John C., Stratford, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine. No. 1,436,460; Nov. 21.
- Ringer, Luther, assignor of one-half to L. M. Mundie, Eden, N. Y. Shaft casing. No. 1,417,349; May 23.
- Ringer, Soren, Chicago, Ill. Handle and making same. No. 1,418,095; May 30.
- Rintoul, Harry E., Sheepshead Bay, N. Y. Attachment for grinding machines. No. 1,420,286; June 20.
- Riordan, Patrick D., New York, N. Y. Game apparatus. No. 1,409,029; Mar. 7.
- Riotte, Eugene A., Manhasset, N. Y., assignor to Standard Motor Construction Company, Jersey City, N. J. Internal-combustion engine. No. 1,437,016; Nov. 28.
- Ripley, David W., Fresno, Calif. Box-nailing table. No. 1,436,292; Nov. 21.
- Ripley, David W., Fresno, Calif. Box-nailing table. No. 1,436,293; Nov. 21.
- Ripper, Richard. (See Sprague, Edward, jr., assignor.)
- Rischmuller, George, San Francisco, Calif. Demountable rim. No. 1,405,803; Feb. 7.
- Rischmuller, George, San Francisco, Calif. Wheel. No. 1,432,088; Oct. 17.
- Riser, Jacob J., Shelbyville, Ind. Apparatus for resetting sound reproducers. No. 1,421,568; July 4.
- Risinger, Frank V., Youngstown, Ohio, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vacuum-feeding device for carbureters. No. 1,432,909; Oct. 24.
- Risk, Roy R., Shreveport, La. Switch. No. 1,418,674; June 6.
- Risser, Arthur I., assignor to U. S. Bottlers' Machinery Company, Chicago, Ill. Bottle-corking machine. No. 1,435,739; Nov. 14.
- Rissmann, Paul, assignor to Fisher Body Corporation, Detroit, Mich. Pull-strap fixture. No. 1,426,106; Aug. 15.
- Rissmann, Paul, assignor to Fisher Body Corporation, Detroit, Mich. Machine for the manufacture of cloth covering-tubes for automobile window sash. No. 1,431,256; Oct. 10.
- Rissmann, Paul, assignor to Fisher Body Corporation, Detroit, Mich. Automatic stuffing machine. No. 1,431,257; Oct. 10.
- Rissmann, Paul, assignor to Fisher Body Corporation, Detroit, Mich. Machine for sewing covers on cores. No. 1,431,898; Oct. 10.
- Rissmann, Paul, assignor to Fisher Body Corporation, Detroit, Mich. Panel-trimming machine. No. 1,431,899; Oct. 10.
- Rist, Edward M., St. Paul, Minn. Shooting torpedoes. No. 1,409,409; Mar. 14.
- Risty, Julia E., Pipestone, Minn. Chicken coop. No. 1,415,397; May 9.
- Ritchey, Ivan J., Franklin, Pa. Emergency feed stops for carburetors. No. 1,434,150; Oct. 31.
- Ritchie, Harry R., Springfield, Mass. Window-sash-latching device. No. 1,429,256; Sept. 19.
- Ritchie, Oscar N., Hamilton, and H. C. Boykin, Middletown, Ohio, assignors to P. Lorillard Company, New York, N. Y. Article-feeding machine. No. 1,421,569; July 4.
- Ritchie, Oscar N., Hamilton, and H. C. Boykin, Middletown, Ohio, assignors to P. Lorillard Company, New York, N. Y. Article-feeding machine. No. 1,433,911; Oct. 31.
- Ritchie, Thomas, Oskaloosa, Iowa. Stock waterer. No. 1,433,477; Oct. 24.
- Ritchie, W. C., & Company. (See Stock, Julius A., assignor.)
- Ritow, Herman, Chicago, Ill. Slide rule. No. 1,405,333; Jan. 31.
- Ritow, Herman, Chicago, Ill. Leveling instrument. No. 1,410,958; Mar. 28.
- Rittenhouse, Edward, Philadelphia, Pa. Thread guide for spinning machines. No. 1,402,538; Jan. 3.
- Rittenhouse, Leon W., Rochester, N. Y. Snowplow. No. 1,408,897; Feb. 14.
- Ritter, Charles A., assignor to Nestor Johnson Manufacturing Company, Chicago, Ill. Strap holder. No. 1,412,967; Apr. 18.
- Ritter, Charles E. (See Kaimer, R. V., and Ritter.)
- Ritter, Claude A., Cincinnati, Ohio. Playing-card hand holder. No. 1,410,959; Mar. 28.
- Ritter, Daniel W. (See Berry, Robert C., assignor.)
- Ritter, Emil F., Somerville, N. J. Toilet seat. No. 1,436,605; Nov. 21.
- Ritter, Emil F., Somerville, N. J. Pot cover. No. 1,436,606; Nov. 21.
- Ritter, Gilbert P., Washington, D. C., assignor to The McConway & Torley Company, Pittsburgh, Pa. Coupling and yoke connection. No. 1,404,892; Jan. 31.
- Ritter, Herman W. (See Gibbons, W. A., and Ritter.)
- Ritter, John A., Lansdowne, Pa. Automobile storage-battery-charging system. No. 1,439,483; Dec. 19.
- Ritter, Joseph R., Hastings, assignor to Ritter Self-Fastening Containers Company, Jacksonville, Fla. Box, closure, and fastener. No. 1,413,994; Apr. 25.
- Ritter, Max, Dresden, Germany. Railway-carriage and like window. No. 1,409,471; Mar. 14.
- Ritter Self-Fastening Containers Company. (See Ritter, Joseph R., assignor.)
- Rittman, Walter F., New York, N. Y., assignor to Synthetic Hydro-Carbon Company, Pittsburgh, Pa. Manufacture of light hydrocarbons and the like. No. 1,419,121; June 6.
- Rittman, Walter F., assignor to Synthetic Hydrocarbon Company, Pittsburgh, Pa. Treatment of hydrocarbons. No. 1,419,122; June 6.
- Rittman, Walter F., assignor to Synthetic Hydro-Carbon Company, Pittsburgh, Pa. Manufacture of benzene, toluene, and other aromatic hydrocarbons and the like. No. 1,419,123; June 6.
- Rittman, Walter F., assignor to Synthetic Hydrocarbon Company, Pittsburgh, Pa. Treatment of xylene and other similar hydrocarbons. No. 1,419,124; June 6.
- Rittman, Walter F., assignor to Synthetic Hydrocarbon Company, Pittsburgh, Pa. Treating hydrocarbons. No. 1,419,125; June 6.
- Rittmeyer, Louis C. (See Lovejoy, F. B., and Rittmeyer.)
- Rittmeyer, Rudolf, Brooklyn, N. Y. Punch and die apparatus. No. 1,406,081; Feb. 7.
- Ritz, August N., Milwaukee, Wis. Combined mucilage cap and spreader. No. 1,407,949; Feb. 28.
- Ritz, Robert E., Milwaukee, Wis. Mucilage-cap structure. No. 1,405,442; Feb. 7.
- Ritzel, George B. (See Klein, R., and Ritzel.)
- Ritzler, Clement H., New Buffalo, Mich. Railway tie. No. 1,440,177; Dec. 26.
- Ritzman, Charles H., Dumont, Iowa. Pool-game-tallying device. No. 1,430,262; Sept. 26.
- Ritz-Woller, Oliver C., Chicago, Ill. Windshield cleaner. No. 1,402,657; Jan. 3.
- Rius, Henry, and J. M. Fontanals, New York, N. Y. Purse. No. 1,437,362; Nov. 28.
- Rivera, Luis J. (See Marquez, Jose S., assignor.)
- Rivers, Willie L., and G. B. Dixon, Dallas, Tex. Hanger. No. 1,423,455; July 18.
- Riverside Peanut Co. (See Worth, William A., assignor.)
- Riverview Cemetery Company. (See Thompson, C. W., and Quigley, assignors.)
- Riviere, Hal, Columbus, Ga. Combined tension device and guide for thread. No. 1,424,182; Aug. 1.
- Rives, George H., New York, N. Y. Antiskid device for shoe heels. No. 1,431,045; Oct. 3.
- Rivett, Arthur W., St. Louis, Mo. Talking machine. No. 1,430,469; Sept. 26.
- Riza, George P., Dallas, Tex. Fish-catching device. No. 1,405,740; Feb. 7.
- Rizzolo, Alfred G. (See Bevere, A., Greco, and Rizzolo.)
- Rizzon, Sebastiano, and R. Ciccioli, New York, N. Y. Ornamenting the surfaces of stone. No. 1,410,721; Mar. 28.
- Roach, Finis E., Chicago, Ill. Dental impression flask or tray. (Reissue.) No. 15,265; Jan. 10.
- Roach, Finis E., Chicago, Ill. Flask. No. 1,434,408; Nov. 7.
- Roach, Joseph H., Brookline, Pa. Laterally-movable tuyere. No. 1,439,578; Dec. 19.
- Roach, Leonard L., Galesburg, Ill. Cultivator. No. 1,439,579; Dec. 19.
- Roach, Patrick J., and D. Carter, Toronto, Ontario, Canada. Liquid meter. No. 1,420,752; June 27.
- Roadless Traction Limited. (See Clark, Charles W., assignor.)
- Roadless Traction Limited. (See Firth, Edward I., assignor.)
- Roadless Traction, Limited. (See Johnson, Philip H., assignor.) (Reissue.)
- Roadless Traction, Limited. (See Rackham, George J., assignor.)
- Roadrails Limited. (See Dutton, Frank H., assignor.)
- Road, Elias. (See Gjerseeth, Johan L., assignor.)
- Roat, Augustus M., Williamsport, Pa. Shovel cleaner. No. 1,419,987; June 20.
- Roath, Rollin J., Ogden, Utah. Latch. No. 1,403,638; Jan. 17.
- Robb, Arthur A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Cushion tire. No. 1,433,301; Oct. 24.
- Robb, David W., Cleveland, Ohio. Steam boiler. No. 1,434,502; Nov. 7.
- Robb, John F., Cleveland Heights, Ohio. Concrete-chute distributing system. No. 1,418,738; June 6.
- Robb, John F., Cleveland, Ohio. Control mechanism for calculating machines. No. 1,421,719; July 4.
- Robbin, Joseph F., Grand Rapids, Mich. Lathe. No. 1,439,125; Dec. 19.
- Robbins Company, The. (See Nelson, Olaf, assignor.)

- Robbins, Frank M., and J. S. Hartley, assignors to Ross-Meehan Foundries, Chattanooga, Tenn. Conveyor cleat. No. 1,427,229; Aug. 29.
- Robbins, George A. H., and S. F. E. Einsiedel, Brisbane, Queensland, Australia. Resilient core for motor tires. No. 1,423,580; July 25.
- Robbins, J. Donald. (See Packard, Alden H., assignor.)
- Robbins, Percy A., San Francisco, Calif. Auxiliary brake for automobiles. No. 1,431,182; Oct. 10.
- Robeling's, John A., Sons Company. (See Green, Richard D., assignor.)
- Robertson, Victor L., assignor to L. L. Loeb, Cincinnati, Ohio. Foot rest. No. 1,430,755; Oct. 3.
- Robert, André, La Chaux de Fonds, Switzerland. Automatic distributor of liquid soap. No. 1,408,921; Mar. 7.
- Robert Bosch Aktiengesellschaft. (See Kazenmaier, August, assignor.)
- Robert Bosch Aktiengesellschaft. (See Schäfer, Max, assignor.)
- Robert Bosch Aktiengesellschaft. (See Steinhart, Hermann, assignor.)
- Robert, Frederic P., Lynnbrook, Long Island, N. Y. Wrench. No. 1,407,578; Feb. 21.
- Robert Sayre Kent, Inc. (See Peiter, Frederick, assignor.)
- Roberto, Leopoldo, Philadelphia, Pa. Graphophone. No. 1,414,898; May 2.
- Roberts, Albert R., and G. T. Smith, Chattanooga, Tenn. Bevel shearing machine. No. 1,426,216; Aug. 15.
- Roberts, Alexis O., Greene Island, J. J. O'Keefe, and A. F. Burby, Watervliet, N. Y. Combined support and guide for sliding doors. No. 1,406,898; Feb. 14.
- Roberts, Alfred E. (See Rhodes, F. H., and Roberts.)
- Roberts, Alfred E., assignor of one-fifth to H. M. Roberts, San Francisco, Calif. Washing machine. No. 1,432,122; Oct. 17.
- Roberts, Arthur, Evanston, assignor to American Coke & Chemical Company, Chicago, Ill. Coke-oven heating wall and the like. No. 1,404,061; Jan. 17.
- Roberts, Arthur, Evanston, assignor, by mesne assignments, to American Coke & Chemical Company, Chicago, Ill. By-product-recovery process. No. 1,405,629; Feb. 7.
- Roberts, Arthur, Evanston, assignor to American Coke & Chemical Company, Chicago, Ill. Coal-distillation retort. No. 1,408,640; Mar. 7.
- Roberts, Arthur, Evanston, assignor, by mesne assignments, to Chicago Trust Company, trustee, Chicago, Ill. Coke oven. No. 1,411,224; Mar. 28.
- Roberts, Arthur, Evanston, assignor, by mesne assignments, to Chicago Trust Company, trustee, Chicago, Ill. Coke oven. No. 1,430,588; Oct. 3.
- Roberts, Arthur C. (See Giles, Harvey, assignor.)
- Roberts, Arthur S., Greenville, S. C., assignor, by mesne assignments, to Surpass Chemical Co., Inc. Bleaching and dyeing vegetable and animal fibers. No. 1,429,775; Sept. 19.
- Roberts Brass Manufacturing Company. (See Roberts, William H., assignor.)
- Roberts, Charles B., Berkeley, Calif. Scraper. No. 1,418,973; June 6.
- Roberts, Charles C., Ansonia, Conn. Self-supporting clamp. No. 1,420,147; June 20.
- Roberts, Charles C., Stamford, Conn. Game. No. 1,436,909; Nov. 28.
- Roberts, Claudius H. M., Washington, D. C. Method of and apparatus for detecting the presence of one gas in another. No. 1,421,720; July 4.
- Roberts, David, assignor of one-half to L. Headrick, Wilkinsburg, Pa. Tool. No. 1,414,750; May 2.
- Roberts, Eugene, assignor to The Western States Machine Company, Salt Lake City, Utah. Centrifugal apparatus. No. 1,414,526; May 2.
- Roberts, Eugene, assignor to The Western States Machine Company, Salt Lake City, Utah. Self-oiling pulley. No. 1,436,910; Nov. 28.
- Roberts, Eugene D., Tacoma, Wash. Clutch-operating mechanism. No. 1,423,023; July 18.
- Roberts, Francis V., Los Angeles, Calif. Shoe-polishing appliance. No. 1,436,607; Nov. 21.
- Roberts, Frank G. A. (See Campbell, C. W. R., and Roberts.)
- Roberts, Fred S. (See Stevens, George E., assignor.)
- Roberts, Fred T., Cleveland, Ohio. Method of and apparatus for preventing air bubbles in laminated rubber articles. No. 1,433,971; Oct. 31.
- Roberts, Fred T., Cleveland, Ohio, assignor to Paramount Rubber Consolidated, Inc., Philadelphia, Pa. Method of and apparatus for making sheet rubber. No. 1,435,659; Nov. 14.
- Roberts, Fredrick W., assignor to Roberts Manufacturing Co., Lockport, N. Y. Method of and apparatus for dressing grindstones and the like. No. 1,413,060; Apr. 18.
- Roberts, George E., assignor to The Spencer Metal Products Company, Spencer, Ohio. Toy piano. No. 1,423,024; July 18.
- Roberts, Harriet M. (See Roberts, Alfred E., assignor.)
- Roberts, Harry W., and J. H. Overton, Trenton, N. J. Apparatus for forming hollow rubber goods. No. 1,404,320; Jan. 24.
- Roberts, Henry P. (See Duren, Charles A., assignor.)
- Roberts, Henry S., Los Angeles, Calif. Light dimmer. No. 1,417,630; May 30.
- Roberts, Herbert L., assignor to Business Systems, Limited, Toronto, Ontario, Canada. Autographic register. No. 1,422,132; July 11.
- Roberts, Herbert L., assignor to Business Systems Limited, Toronto, Ontario, Canada. Autographic register. No. 1,424,946; Aug. 8.
- Roberts, Herbert L., assignor to Business Systems, Limited, Toronto, Ontario, Canada. Autographic register. No. 1,433,152; Oct. 24.
- Roberts, Hiram S., Albany, Ala. Seat. No. 1,415,711; May 9.
- Roberts, Howard R., Chicago, Ill. Coin-controlled mechanism. No. 1,410,510; Mar. 21.
- Roberts, Irvin, St. Paul, assignor of one-half to C. C. Edwards, Minneapolis, Minn. Sawing machine. No. 1,438,786; Dec. 12.
- Roberts, Jacob M., Norfolk, Va. Signaling apparatus. No. 1,420,618; June 20.
- Roberts, James L., Gorin, Mo. Pedigree trap nest and flock culler. No. 1,417,631; May 30.
- Roberts, John E., Albany, N. Y. Combination home-route card and empty-car waybill. No. 1,404,321; Jan. 24.
- Roberts, John F., Fresno, Calif. Grouter for tractor wheels. No. 1,427,418; Aug. 29.
- Roberts, John W. (See Case, G. W., and Roberts.)
- Roberts, John W., Grants Pass, Oreg. Tool for contracting or expanding demountable rims. No. 1,424,650; Aug. 1.
- Roberts, Joseph F., San Francisco, Calif. Electric heater. No. 1,403,639; Jan. 17.
- Roberts, Joseph H., Manchester, Conn. Bulletin board. No. 1,432,303; Oct. 17.
- Roberts, Joseph H., Manchester, Conn. Friction clutch. No. 1,433,656; Oct. 31.
- Roberts, L. R., Typewriter Company. (See Roberts, Lyman R., assignor.)
- Roberts, Lyman R., Rutherford, N. J., assignor to L. R. Roberts Typewriter Company, Stamford, Conn. Typewriter key-lever mechanism. No. 1,428,117; Sept. 5.
- Roberts, Lyman R., Rutherford, N. J., assignor to L. R. Roberts Typewriter Company, Stamford, Conn. Typewriter. No. 1,431,983; Oct. 17.
- Roberts Manufacturing Co. (See Roberts, Fredrick W., assignor.)
- Roberts, Marion M., St. Francisville, Ill., assignor to The Ohio Oil Company, Findlay, Ohio. Stuffing box. No. 1,410,600; Mar. 28.
- Roberts, Mark, Chicago Heights, Ill. Power wrench. No. 1,437,017; Nov. 28.
- Roberts, Maurice H., assignor to Harris Company, Inc., Boston, Mass. Egg beater. No. 1,413,874; Apr. 25.
- Roberts, Montague H., Jersey City, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Distributing gases. No. 1,435,555; Nov. 14.
- Roberts, Montague H., Jersey City, N. J., assignor to Air Reduction Company, Inc. Method of and apparatus for producing dry compressed gases. No. 1,439,911; Dec. 26.
- Roberts, Nash & Co. (See Giovagnoli, John, assignor.)
- Roberts, Park D. (See Roberts, Webster M. and P. D.)
- Roberts, Robert R., Washington, D. C. Deshiving and decorticating machine. No. 1,406,004; Jan. 31.
- Roberts, Theodore C., New York, N. Y., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Suspension device for vibratory structures. No. 1,435,258; Nov. 14.
- Roberts, Thomas. (See Austin, J. D., and Roberts.)
- Roberts, Thomas M. (See Waline, A. H., and Roberts.)
- Roberts, Thomas M., Chicago, Ill. Radiator cap. No. 1,402,126; Jan. 3.
- Roberts, Walter S., Edgewood Park, and C. H. Hodgkins, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Antivibration catch. No. 1,430,589; Oct. 3.
- Roberts, Webster M. and P. D., St. Joseph, Mo. Machine for baking pastry products. No. 1,423,258; July 18.
- Roberts, Webster M. and P. D., St. Joseph, Mo. Machine for and method of making pastry cones. No. 1,423,259; July 18.
- Roberts, Webster M. and P. D., St. Joseph, Mo. Machine for and method of making pastry cones. No. 1,423,260; July 18.
- Roberts Wheel & Body Works. (See Graham, Earl S., assignor.)
- Roberts, William. (See Croft, H. D., and Roberts.)
- Roberts, William, assignor of two-thirds to F. T. Lahey, Akron, Ohio. Battery plate. No. 1,414,710; May 2.
- Roberts, William F. (See Shaw, O., and Roberts.)
- Roberts, William H., assignor to Roberts Brass Manufacturing Company, Detroit, Mich. Forced-feed oil cup. No. 1,407,086; Feb. 21.
- Roberts & Mander Stove Company. (See Hawley, Everett M., assignor.)
- Roberts and Schaefer Company. (See Johnson, Robert W., assignor.)
- Roberts and Schaefer Company. (See Rice, Roy E., assignor.)
- Robertshaw Wilson. (See Bailey, G., and Robertshaw.)
- Robertson, Andrew F., and G. J. Moe, Ann Arbor, Mich. Golf-club rack. No. 1,404,893; Jan. 31.
- Robertson, Arno W., Mount Vernon, assignor to George R. Swart & Company, Inc., New York, N. Y. Paper lift. No. 1,411,520; Apr. 4.

Alphabetical list of patentees—Continued.

- Robertson Brothers Manufacturing Company. (See Burrell, William C., assignor.)
- Robertson Brothers Manufacturing Company. (See Hauf, George F., assignor.)
- Robertson Brothers Manufacturing Company.. (See Naylor, C. G., and Hauf, assignors.)
- Robertson, Charles O. (See Lichtenstein, L., and Robertson.)
- Robertson, David L. (See Fleury, Philorum, assignor.)
- Robertson, Everett W. H., St. Louis, Mo. Automatic fastening and releasing device for automobile hoods. No. 1,402,964; Jan. 10.
- Robertson, Frank E., assignor to The P. A. Geier Company, Cleveland, Ohio. Suction cleaning apparatus. No. 1,415,053; May 9.
- Robertson, Frank E., assignor to P. A. Geier Company, Cleveland, Ohio. Suction cleaning apparatus. No. 1,437,996; Dec. 5.
- Robertson, Frank J., and W. S. Peterson, Denver, Colo. Cylinder-grinding attachment for lathes. No. 1,413,061; Apr. 18.
- Robertson, Frederick D. S., Toronto, Ontario, Canada. Obtaining volatilizable metal oxides. No. 1,426,602; Aug. 22.
- Robertson, George W., Culpeper, Va. Corncrib ventilator and drier. No. 1,431,046; Oct. 3.
- Robertson, H. H., Company. (See Young, James H., assignor.)
- Robertson, Isaac W., Akron, Ohio, assignor to The Miller Rubber Company. Cord-fabric-impregnating apparatus. No. 1,413,786; Apr. 25.
- Robertson, James, Jr., Weehawken, N. J. Last for forming repair patches. No. 1,409,582; Mar. 14.
- Robertson, Jasper N., St. Thomas, Ontario, Canada. Free-oil journal lubrication. No. 1,404,651; Jan. 24.
- Robertson, Levi L., Madison, Minn. Attachment for screen doors. No. 1,432,790; Oct. 24.
- Robertson, Maxwell W., Belle Harbor, N. Y. Electrical connector. No. 1,438,554; Dec. 12.
- Robertson, Sidney E., Medon, Tenn. Wheel. No. 1,419,762; June 13.
- Robertson, Wallace B. J., Edgbaston, England. Pressing of peat and the like. No. 1,145,398; May 9.
- Robertson, William. (See Rosine C., and Boucher, assignors.)
- Robertson, William, assignor of one-half to The Fairfield Shipbuilding & Engineering Company Limited, Govan, Glasgow, Scotland. Flexible expansion coupling for rotary shafts. No. 1,407,299; Feb. 21.
- Robertson, William H., Dayton, Ohio. Wind wheel. No. 1,434,563; Nov. 7.
- Robertson, William J., and H. E. Becker, Fullerton, Calif. Cable guard for tackle blocks. No. 1,436,725; Nov. 28.
- Robeson, Frank K. (See Fontaine, P., and Robeson.)
- Robeson Process Company. (See Hurt, Henry H., assignor.)
- Robeson, Ray, and J. Lee, Withee, Wis. Snatch block. No. 1,428,118; Sept. 5.
- Robeson, William B., Port Huron, Mich. Surfacing composition and producing same. No. 1,405,941; Feb. 7.
- Robichaux, Sosthene. (See Salter, D. M., and Robichaux.)
- Robideau, Eli, Malone, N. Y. Dust collector. No. 1,431,258; Oct. 10.
- Robider, William J., Westmont, Quebec, Canada. Grain car. No. 1,422,133; July 11.
- Robidoux, William L. M., Pawtucket, R. I. Cord-fastening hook. No. 1,419,410; June 13.
- Robin, Jacob I., New York, N. Y. Apparatus for protecting checks, receipts, etc., against alterations. No. 1,413,787; Apr. 25.
- Robin, Joseph T., Streatham, London, England. Treatment of fabrics for gas mantles. No. 1,436,359; Nov. 21.
- Robins Conveying Belt Company. (See Acken, Wiley S., assignor.)
- Robins Conveying Belt Co. (See Uhlarik, Julius C., assignor.)
- Robins, Howard F., Cedar Rapids, Iowa. Pipe wrench. No. 1,420,058; June 20.
- Robins, James E., and W. S. Slack, Hagersville, Ontario, Canada. Diaphragm for sound boxes. No. 1,419,943; June 20.
- Robinson, Anna J., et al. (See Robinson, Major J., assignor.)
- Robinson, Carter B., Wyandotte, Mich. Toy aeroplane. No. 1,402,965; Jan. 10.
- Robinson, Charles, Reigate, and R. M. Chamney, London, England. Telephonic repeater. No. 1,429,634; Sept. 19.
- Robinson, Charles G., Buffalo, N. Y., assignor to The Beaver Company. Brick veneer. No. 1,431,125; Oct. 3.
- Robinson, Charles G., Buffalo, N. Y., assignor to The Beaver Company. Weatherboard. No. 1,431,126; Oct. 3.
- Robinson, Charles M., New Haven, Conn. Canopy for windshields. No. 1,416,304; May 16.
- Robinson, Clarence I. (See Howard, F. A., Robinson, and Jennings.)
- Robinson, Clarence I., New York, N. Y., assignor to Standard Oil Company, Bayonne, N. J. Treating spent fullers' earth. No. 1,403,198; Jan. 10.
- Robinson, Clarence I., Elizabeth, N. J., assignor to Standard Oil Company of New Jersey, New York, N. Y. Recovery of by-products of petroleum refining. No. 1,431,259; Oct. 10.
- Robinson, D. L., et al. (See Cudlipp, George R., assignor.)
- Robinson, Daniel C., Monessen, assignor of one-half to W. C. Johnson, Rices Landing, Pa. Chuck for tool-operating machines. No. 1,415,119; May 9.
- Robinson, David M., jr., assignor to The Stanley Works, New Britain, Conn. Safety device for presses. No. 1,431,759; Oct. 10.
- Robinson, Dighron A., Seattle, Wash. Tie-tamping machine. No. 1,415,193; May 9.
- Robinson, Dighton A., Minneapolis, Minn. Tie-tamping machine. No. 1,415,194; May 9.
- Robinson, Donald R. (See Rickard, F. E., and Robinson.)
- Robinson, E. S. (See Wright, Charles A., assignor.)
- Robinson, Edith A., administratrix. (See Robinson, Lawrence E.)
- Robinson, Edward S., Oakland, Calif. Signal lamp. No. 1,403,567; Jan. 17.
- Robinson, Edwin L., assignor of one-half to H. J. Spooner, Providence, R. I. Swivel for watch chains and the like. No. 1,417,281; May 23.
- Robinson, Ellyson S., and J. Bowers, Richmond, Va. Trolley wheel. No. 1,417,350; May 23.
- Robinson, Ernest H. (See Lumsden, J. D., Mackenzie, Robinson, and Fort.)
- Robinson, Frank T., Louisville, Ky., assignor of one-half to C. T. Howland, Petersburg, Va. Door fastener. No. 1,429,536; Sept. 19.
- Robinson, Frank W., assignor to The Nolde & Horst Co., Reading, Pa. Tucking and drop-stitch mechanism for knitting machines. No. 1,402,379; Jan. 3.
- Robinson, Frank W., assignor to The Nolde & Horst Co., Reading, Pa. Tucking mechanism for knitting machines. No. 1,425,288; Aug. 8.
- Robinson, Frank W., assignor to Schuylkill Hosiery Mills, Inc., Reading, Pa. Stripping mechanism for knitting machines. No. 1,428,398; Sept. 5.
- Robinson, Fred A., West Boylston, Mass. Combination chair and table. No. 1,435,740; Nov. 14.
- Robinson, Frederick R., assignor to Packard Motor Car Company, Detroit, Mich. Calculating device. No. 1,409,583; Mar. 14.
- Robinson, George, Berkeley, assignor of one-third to Henry I. Todd and one-third to J. F. Hurst, Berkeley, Calif. Wrench. No. 1,433,153; Oct. 24.
- Robinson, George A., Fellows, Calif. Fishing tool. No. 1,409,197; Mar. 14.
- Robinson, George A., Quincy, assignor, by mesne assignments, to State Street Trust Company, trustee, Boston, Mass. Tempering paper labels. No. 1,440,104; Dec. 26.
- Robinson, George L., Beechview, assignor to Blaw-Knox Company, Pittsburgh, Pa. Feed hopper for gas producers. No. 1,425,901; Aug. 15.
- Robinson, Harry E., Franklin, La. Internal-combustion engine. No. 1,410,601; Mar. 28.
- Robinson, Hassel D., et al. (See Smartt, Brinay, assignor.)
- Robinson, Homer, Lorain, Ohio. Annunciator. No. 1,406,899; Feb. 14.
- Robinson, James, Andover, England. Radiodirection finder. No. 1,436,941; Nov. 21.
- Robinson, James B., Chattanooga, Tenn. Buckle and band hook. No. 1,416,417; May 16.
- Robinson, Jay G., Chicago, Ill. Fire door. No. 1,407,222; Feb. 21.
- Robinson, Jay G., Chicago, Ill. Door-operating appliance. No. 1,421,721; July 4.
- Robinson, John G., Manchester, England. Means for using pulverized fuel in the furnaces of steam generators. No. 1,416,512; May 16.
- Robinson, John G., and R. A. Thom, Fairfield, Manchester, England. Oil burner. No. 1,413,615; Apr. 25.
- Robinson, John L., assignor to Reno Optical Company, Reno, Nev. Heater. No. 1,406,900; Feb. 14.
- Robinson, John T., Company. (See Taylor, Eugene H., assignor.)
- Robinson, Joseph V., Morristown, N. J. Automatic train-pipe connector. (Reissue.) No. 15,400; July 4.
- Robinson, Lawrence E., deceased, by Edith A. Robinson, administratrix, Coffeyville, Kans. Oil-well packer. No. 1,431,426; Oct. 10.
- Robinson, Major J., assignor to A. J. Robinson and M. R. Betts, Long Beach, Calif. Automobile brake. No. 1,432,414; Oct. 17.
- Robinson, Marguerietta B., London, England. Cigarette and cigar holder. No. 1,405,869; Feb. 7.
- Robinson, Neal M., Kansas City, Kans. Vehicle wheel. No. 1,422,479; July 11.
- Robinson, Oscar J., Chandler, Tex. Hand harvesting device. No. 1,439,126; Dec. 19.
- Robinson, Otis. (See Hall, W. A., and Robinson.)
- Robinson, Richard E., Kansas City, Mo. Automobile hood. No. 1,422,305; July 11.
- Robinson, Robert M., assignor to Cheatham Electric Switching Device Co., Inc., Louisville, Ky. Trolley pan. No. 1,411,670; Apr. 4.
- Robinson, Robert M., Columbia, Mo., and H. M. McDonald, Hartford, Conn., assignors to The Columbus Dental Manufacturing Company. Display holder. No. 1,404,164; Jan. 17.
- Robinson, Rose M. (See Rickard, F. E., and Robinson, assignors.)
- Robinson, Samuel, White Plains, N. Y. Windshield cleaner. No. 1,407,672; Feb. 21.

Alphabetical list of patentees—Continued.

- Robinson, Sarah, Welch, assignor of one-fourth to R. B. Anderson, Algonquin, W. Va. Washboard. No. 1,435,500; Nov. 14.
- Robinson, Thomas E., Tulsa, Okla. Casing clamp for oil wells. No. 1,402,092; Jan. 3.
- Robinson, Thomas F., Minneapolis, Minn. Safety device for motor vehicles. No. 1,407,579; Feb. 21.
- Robinson, Vincent M., St. Joseph, Mo. Dental impression tray. No. 1,406,492; Feb. 14.
- Robinson, Wallace W., Portland, Me. Strap and belt tightening buckle. No. 1,428,560; Sept. 12.
- Robinson, Walter M. (See Parsons, F. E., and Robinson.)
- Robinson, Walter W., assignor of one-half to B. F. Lyons, Beloit, Wis. Refrigerating system. No. 1,415,399; May 9.
- Robinson, William. (See McEwen, W., and Robinson.)
- Robinson, William C., Baltimore, Md. System for disposal of bilge water and recovery of sludge. No. 1,425,289; Aug. 8.
- Robinson, William J., Harrisburg, Pa. Support and making same. No. 1,429,776; Sept. 19.
- Robinson, William V., assignor to The Independent Stove Company, Owosso, Mich. Combination gas and coal range. No. 1,429,099; Sept. 12.
- Robison, Floyd W., assignor to Utility Compressor Company, Detroit, Mich. Use of sulphur dioxide in artificial refrigerating systems. No. 1,406,582; Feb. 14.
- Robison, James E., Denver, Colo. Cooling system for the radiators of automobile engines. No. 1,403,709; Jan. 17.
- Robison, James E., Denver, Colo. Automobile door-supported clean-up-kit-holding case. No. 1,411,377; Apr. 4.
- Robison, James E., Denver, Colo. Water or other liquid holding tank for automobiles. No. 1,411,378; Apr. 4.
- Robison, James E., Denver, Colo. Water-heating apparatus for radiator-provided water-cooled internal-combustion engines of automobiles and other vehicles. No. 1,411,379; Apr. 4.
- Robison, Willis A. (See Geiser, J. E., and Robison.)
- Robnett, Curtiss, Columbia, Mo. Tractor cleat. No. 1,422,377; July 11.
- Robson, Clarence E., Philadelphia, Pa. Roller bearing. (Reissue.) No. 15,345; Apr. 25.
- Robson, Herbert E., East Prahran, Melbourne, Victoria, Australia. Producing mottled decorative effects on various surfaces. No. 1,413,429; Apr. 18.
- Robson, John, Anita, Iowa. Four-horse equalizer. No. 1,423,682; July 25.
- Robson, Thomas, Windber, Pa. Stretcher. No. 1,420,945; June 27.
- Roby, David H. (See Dobbins, T. C., and Roby.)
- Roby, Everett H. (See Lockhart, C. F., and Roby.)
- Roby, Joseph A., and J. Z. Tondut, Edmonton, Alberta, Canada. Automobile rim and wheel. No. 1,432,415; Oct. 17.
- Roby, Kenneth K., assignor to The Honeywell Heating Specialties Company, Wabash, Ind. Thermostat. No. 1,437,818; Dec. 5.
- Rocher, Maurice A. L., Châtelleraut, Vienne, France. Vise having an instantaneous tightening and loosening action. No. 1,406,901; Feb. 14.
- Rocheville, Charles F., assignor to H. K. Weitzel, San Diego, Calif. Adjustable aeroplane wing. No. 1,439,127; Dec. 19.
- Roehwite, August, Hartford, Wis. Lifter for milk-bottle caps. No. 1,408,641; Mar. 7.
- Rock, George L., Waukesha, Wis. Strap tightener. No. 1,413,616; Apr. 25.
- Rock, George L., Waukesha, Wis. Strap and fastener. No. 1,420,148; June 20.
- Rock, Ira F. (See Fries, J. R., and Rock.)
- Rock Island Flow Company. (See Kaupke, Lee H., assignor.)
- Rockbestos Products Corporation. (See Heany, John A., assignor.)
- Rocke, Abraham, New York, N. Y. Garment fastener. No. 1,409,030; Mar. 7.
- Rocke, George, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Controlling the stabilizer content of cellulosic colloids. No. 1,424,212; Aug. 1.
- Rockey, Clarence H., Chicago, Ill. Universal fixture stem. No. 1,410,602; Mar. 28.
- Rockford Milling Machine Company. (See Sundstrand, Gustaf D., assignor.)
- Rockford Tool Company. (See Sundstrand, Gustaf D., assignor.)
- Rockman, Bennett, Boston, Mass. Windshield wiper. No. 1,403,710; Jan. 17.
- Rockoff, Bernard. (See Rockoff, Elias, assignor.)
- Rockoff, Elias, assignor of one-half to B. Rockoff, Chicago, Ill. Stem for electric-lighting fixtures. No. 1,423,683; July 25.
- Rockstad, Abraham, Ladysmith, Wis. Sleigh knee. No. 1,413,542; Apr. 18.
- Rockstroh, Max, Klein-Sedlitz, near Pirm, Germany. Device for measuring and recording the power consumption of machines. No. 1,429,165; Sept. 12.
- Rockstroh, Max, Klein-Sedlitz, near Pirm, Germany. Stiffening of printing presses. No. 1,437,198; Nov. 28.
- Rockwell, Albert F., Bristol, Conn., assignor to Marlin-Rockwell Corporation, New York, N. Y. Centrifugal casting machine. No. 1,403,347; Jan. 10.
- Rockwell, Albert F., Bristol, Conn., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del. Ball-lapping machine. No. 1,419,078; June 6.
- Rockwell, Albert F., Bristol, Conn., assignor to Marlin-Rockwell Corporation, New York, N. Y. Device for producing extruded sheet metal. No. 1,423,361; July 18.
- Rockwell, Byrd C., Camden, Ark. Composite lumber. No. 1,409,410; Mar. 14.
- Rockwell, Clifton C., Tucson, Ariz. Animal trap. No. 1,423,261; July 18.
- Rockwell, E. A., Company Inc. (See Rockwell, Edward A., assignor.)
- Rockwell, Edward A., New Haven, Conn., assignor to E. A. Rockwell Company, Inc., New York, N. Y. Vacuum feeding apparatus. No. 1,415,195; May 9.
- Rockwell, Edward A., Flushing, assignor to E. A. Rockwell Company, Inc., New York, N. Y. Vacuum liquid-supply system. No. 1,420,753; June 27.
- Rockwell, Edward D., Bristol, Conn. Valve-stem cap. No. 1,423,541; July 25.
- Rockwell, Herbert O., assignor to The Brady Electric & Manufacturing Company, New Britain, Conn. Cable support. No. 1,437,363; Nov. 28.
- Rockwell, Herbert O., assignor to The Brady Electric & Manufacturing Company, New Britain, Conn. Insulator support. No. 1,439,840; Dec. 26.
- Rockwell, Hugh M., Bristol, Conn., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del. Gauge. No. 1,415,054; May 9.
- Rockwell, Hugh M., Bristol, Conn., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del. Ball-loading device. No. 1,419,519; June 13.
- Rockwell, Hugh M., Bristol, Conn., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del. Device for positioning spacing members. No. 1,419,520; June 13.
- Rockwell, Hugh M., Bristol, Conn., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del. Inserting balls between race members. No. 1,419,521; June 13.
- Rockwell, Hugh M., Bristol, Conn., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del. Bore gauge. No. 1,423,542; July 25.
- Rockwell, Lea W., New Haven, Conn., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del. Making antifriction elements. No. 1,431,183; Oct. 10.
- Rockwell, Robert L. (See Stevens, H. R., Rockwell, and Howe.)
- Rockwood, Charles P., Geneva, assignor, by mesne assignments, to American Seamless Container Company, St. Charles, Ill. Pail. No. 1,406,284; Feb. 14.
- Rockwood, George I., and H. Carlson, assignors to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass. Rotary handle. No. 1,403,977; Jan. 17.
- Rockwood Sprinkler Company of Massachusetts. (See Carlson, Hjalmar G., assignor.)
- Rockwood Sprinkler Company of Massachusetts. (See Rockwood, G. I., and Carlson, assignors.)
- Rockwood, William M., Indianapolis, Ind. Ash-receiving attachment for tables and the like. No. 1,436,405; Nov. 21.
- Rod, Albert Edward Day's Bay, Wellington, New Zealand. Game. No. 1,421,570; July 4.
- Rodda, Thomas L., et al. (See Matthiasen, Matthias, assignor.)
- Roddiss, Charles H., Bedford, England. Electric heat-producing element and applications thereof to apparatus or articles. No. 1,404,063; Jan. 17.
- Roddy, Gustav R., assignor to Chain Belt Company, Milwaukee, Wis. Liquid-screening apparatus. No. 1,417,205; May 23.
- Roddy, Gustav R., assignor to Chain Belt Company, Milwaukee, Wis. Traveling water screen. No. 1,426,217; Aug. 15.
- Rodebush, Worth H., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Making glycol. No. 1,402,317; Jan. 3.
- Rodebush, Worth H., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Apparatus for producing tetrahalogenated hydrocarbons. No. 1,402,318; Jan. 3.
- Rodebush, Worth H., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Making esters. No. 1,430,324; Sept. 26.
- Rodenburg, Edward A., et al. (See Hornbostel, Adolph H. C., assignor.)
- Rodenburg, Richard W., et al. (See Hornbostel, Adolph H. C., assignor.)
- Roderick, Alexander B. (See Dillon, W. C., Toay, and Hanev, assignors.)
- Röderick Lean Manufacturing Company. (See Beer, Levi W., assignor.)
- Roderick, Marion, Missoula, Mont. Vehicle tire. No. 1,438,663; Dec. 12.
- Rodés, Luis, Tortosa, Spain. Altimeter. No. 1,404,062; Jan. 17.
- Rodger Ballast Car Company. (See Hindahl, David, assignor.)
- Rodger Ballast Car Co. (See Hosceit, William J., assignor.)

Alphabetical list of patentees—Continued.

- Rodger Ballast Car Company. (See Neikirk, John O., assignor.)
- Rodger, John M., Chicago, Ill. Power-operated churn. No. 1,421,571; July 4.
- Rodgers, Charles W. (See Morrell, Glenn A., assignor.)
- Rodgers, Claude M., and A. W. Wenger, Warsaw, Ind. Fish lure. No. 1,421,991; July 4.
- Rodgers, Claude M., and A. W. Wenger, Warsaw, Ind. Controller for fish lures. No. 1,423,025; July 18.
- Rodgers, Dominick, Pittsburgh, Pa. Garbage-disposal device. No. 1,434,066; Oct. 31.
- Rodgers, Fay T., Memphis, Tenn. Refrigerating appliance. No. 1,413,430; Apr. 18.
- Rodgers, Harris F. (See McLaughlin, C. W., and Rodgers.)
- Rodgers, Hugh, Sullivan, Ind. Rail bender. No. 1,425,135; Aug. 8.
- Rodgers, James D., Silverton, Oreg. Cultivator. No. 1,418,675; June 6.
- Rodhe, Olof, assignor to Aktiebolaget Ingeniorsfirma Fritz Egnell, Stockholm, Sweden. Gas-analyzing apparatus. (Reissue.) No. 15,409; July 11.
- Rodier, Robert S., New York, N. Y. Block and tackle apparatus. No. 1,436,608; Nov. 21.
- Rodin, Charles E. (See Wenger, E., and Rodin.)
- Rodkey, Boyd C., Cleveland, Ohio. Attachment for bed springs. No. 1,402,796; Jan. 10.
- Rodman Chemical Company. (See Rodman, Hugh, assignor.)
- Rodman, Hugh, Edgewood, assignor to Rodman Chemical Company, Verona, Pa. Carbonaceous product and making same. No. 1,420,754; June 27.
- Rodman, Hugh, Oakmont, Pa., assignor to Rodman Chemical Company. Casehardening. No. 1,432,416; Oct. 17.
- Rodman, Hugh, Oakmont, Pa., assignor to Rodman Chemical Company. Making finely-divided carbonaceous char. No. 1,433,039; Oct. 24.
- Rodman, Isaac P., assignor to New Jersey Patent Company, West Orange, N. J. Signaling system. No. 1,405,005; Jan. 31.
- Rodman, Thomas H., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor controller. No. 1,422,134; July 11.
- Rodman, Thomas H., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor controller. No. 1,437,018; Nov. 28.
- Rodolousse, Eloi, St.-Antoinin, France. Device for controlling railway trains. No. 1,406,902; Feb. 14.
- Rodow, Abraham, New York, N. Y. Rasp file. No. 1,418,974; June 6.
- Rodowicz, Stanislas, Warsaw, Poland. Vehicle with removable interchangeable superstructure. No. 1,403,568; Jan. 17.
- Rodrian Electro Metallurgical Co. Incorporated. (See Rodrian, Richard, assignor.)
- Rodrian, Richard, New York, N. Y., assignor to Rodrian Electro Metallurgical Co. Incorporated. Smelting and electrolyzing process. No. 1,426,507; Aug. 22.
- Rodriguez, Alberto, Santiago, Chile. Apparatus for cleaning and collecting smoke from foundry chimneys. No. 1,430,116; Sept. 26.
- Rodriguez, Oscar, Chicago, Ill. Valve. No. 1,434,665; Nov. 7.
- Rodriguez Serra, José E., Ponce, P. R. Film holder. No. 1,422,785; July 11.
- Rodstrom, Ingle L. (See Cotton, C., and Rodstrom.)
- Rodwell, Charles H., London Bridge, England. Golf club. No. 1,420,946; June 27.
- Roe, Allott V., Bursledon, England. Resilient tire. No. 1,421,029; June 27.
- Roe, Ernest S., assignor to Markham Air Rifle Company, Plymouth, Mich. Air gun. No. 1,419,308; June 13.
- Roe, John P., London, England. Overhead conveying system for the transport of materials. No. 1,407,673; Feb. 21.
- Roe, John P., deceased, by L. J. Roe, executrix, London, England. Carrier having gripping device for use with aerial ropeways. No. 1,436,911; Nov. 28.
- Roe, Lucy J., executrix. (See Roe, John P.)
- Roebbling's, John A., Sons Company. (See Horn, Harold J., assignor.)
- Roedell, Frederick G. (See Greenstreet, M. L., and Roedell.)
- Roeder, Daniel F., Kalamazoo, Mich. Adjustable diestock. No. 1,404,546; Jan. 24.
- Roehrig, Bernard F., Pasadena, Calif. Jar seal and applying the same. No. 1,428,711; Sept. 12.
- Roeling, Henry W., E. H. Williams, and J. G. Bauer, New Orleans, La. Fuel heater. No. 1,402,658; Jan. 3.
- Roeling, Henry W., E. H. Williams, and J. G. Bauer, New Orleans, La. Manifold for internal-combustion engines. No. 1,413,431; Apr. 18.
- Roeling, Henry W., E. H. Williams, and J. G. Bauer, New Orleans, La. Automatic coin separating and counting device. No. 1,421,992; July 4.
- Roepke, William G., Hudson, Wis. Brush. No. 1,407,674; Feb. 21.
- Roesch, Alfred, assignor to C. J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Humidity controller. No. 1,429,973; Sept. 26.
- Roesch, Alfred, assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Controlling apparatus. No. 1,430,852; Oct. 3.
- Roesch, Alfred, Brooklyn, assignor to Charles J. Tagliabue Manufacturing Co., New York, N. Y. Controller for humidity. No. 1,430,853; Oct. 3.
- Roescher, William F., Philadelphia, Pa. Gas range. No. 1,431,760; Oct. 10.
- Roesen, Oscar, Brooklyn, assignor to R. Hoe and Co., New York, N. Y. Sheet delivery. No. 1,427,852; Sept. 5.
- Roesen, Oscar, assignor to R. Hoe & Co., New York, N. Y. Inking mechanism for printing machines. No. 1,427,853; Sept. 5.
- Roesen, Oscar, and I. Tornberg, assignors to R. Hoe and Co., New York, N. Y. Plate-clamp-operating tool. No. 1,414,485; May 2.
- Roessler & Hasslacher Chemical Co. (See Stewart, Marshall E., assignor.)
- Roessler & Hasslacher Chemical Company, The. (See Proctor, C. H., and Wernlund, assignors.)
- Roessner, Ena, New York, N. Y. Hair-curling device. No. 1,406,083; Feb. 7.
- Roeth, Albert H., New York, N. Y. Building block. No. 1,419,079; June 6.
- Roether, Jacob R., Brooklyn, N. Y. Waterproofing material. No. 1,414,670; May 2.
- Roever, Julius, Richmond Hill, N. Y. Bed. No. 1,424,853; Aug. 8.
- Rofe, Charles A., Marton, New Zealand. Lifting iron for motor cars. No. 1,421,993; July 4.
- Rofe, Thomas E., et al. (See Stevenson, Cecil V., assignor.)
- Rogatchoff, Theodore, Baltimore, Md. Crosshead adjuster. No. 1,416,418; May 16.
- Rogatchoff, Theodore, Baltimore, Md. Piston. No. 1,433,478; Oct. 24.
- Rogatz, William B., assignor to Farmers Standard Carbide Co., Plattsburg, N. Y. Manufacturing calcium carbide. No. 1,422,135; July 11.
- Rogers, Alfred, Milton, Mass. Washbasin. No. 1,408,402; Feb. 28.
- Rogers, Allen, Brooklyn, assignor to Ocean Bond Co., Inc., New York, N. Y. Treating shark skins and the like. No. 1,412,968; Apr. 18.
- Rogers, Allen L., et al. (See Bodie, Albert B., assignor.)
- Rogers, Burling L., Baltimore, Md. Radiator construction. No. 1,409,198; Mar. 14.
- Rogers, Charles A. (See Pack, Walter, assignor.)
- Rogers, Charles E., Detroit, Mich. Evaporating pan. No. 1,417,943; May 30.
- Rogers, Charles E., New London, Conn. Yarn reel. No. 1,428,119; Sept. 5.
- Rogers, Charles E., New London, Conn. Yarn reel. No. 1,439,330; Dec. 19.
- Rogers, Charles L. and M. C., Weehawken, N. J., and W. W. Brown, Chestertown, N. Y. Cooling or refrigerating apparatus. No. 1,414,209; Apr. 25.
- Rogers, Charles O., Atlantic, assignor to Charles J. Jager Company, Boston, Mass. Power pumping unit. No. 1,433,479; Oct. 24.
- Rogers, Clarence B., Seattle, Wash. Electric heating unit. No. 1,426,411; Aug. 22.
- Rogers, Clarence B., Seattle, Wash., assignor to M. F. Patterson Dental Supply Company, St. Paul, Minn. Bunsen attachment for blowpipes. No. 1,420,947; June 27.
- Rogers, Clarence B., Seattle, Wash. Valve for high-pressure gas regulation. No. 1,427,854; Sept. 5.
- Rogers, David M., and A. T. Masterman, London, England. Electrolytic apparatus for preparing hypochlorite solutions. No. 1,409,782; Mar. 14.
- Rogers, Edward E., New York, N. Y. Sharpening device. No. 1,426,911; Aug. 22.
- Rogers, Edward J., Anacortes, Wash. Sewing-machine needle plate. No. 1,424,854; Aug. 8.
- Rogers, Elmer J., Quincy, Mass. Piston-ring tool. No. 1,406,686; Feb. 14.
- Rogers, Frank. (See Burke, P. W., and Breeding, assignors.)
- Rogers, Frank J., Independence, Kans. Well-cleaning device. No. 1,423,625; July 25.
- Rogers, Franklin L., New York, N. Y. Timber-clamping device. No. 1,437,019; Nov. 28.
- Rogers, Fred E., East Orange, N. J. Speed-changing mechanism. No. 1,410,722; Mar. 28.
- Rogers, George L., assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa. Shears. No. 1,422,786; July 11.
- Rogers, George L., assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa. Sickie. No. 1,430,470; Sept. 26.
- Rogers, Grafton L., et al. (See Brown, John L., assignor.)
- Rogers, Harold W., Schenectady, N. Y., assignor to General Electric Company. System of motor control. No. 1,411,586; Apr. 4.
- Rogers, Harry R., assignor to Chicago Car Seal Company, Chicago, Ill. Seal. No. 1,423,881; July 25.
- Rogers, Herbert D., Lewistown, Ill. Bee escape. No. 1,423,883; July 25.
- Rogers, Hiram C., St. Louis, Mo. Automobile body heater. No. 1,428,299; Sept. 5.
- Rogers, Homer, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Producing alkyl anilines. No. 1,413,494; Apr. 18.
- Rogers, James B., assignor of one-half to L. S. Powell, Chicago, Ill. Spark plug. No. 1,410,723; Mar. 28.

- Rogers, James W., Long Beach, Calif. Pedal lock. No. 1,411,521; Apr. 4.
- Rogers, John A. (See Swan, J. B., Rogers, and Jackson.)
- Rogers, John C. (See Alder, F., and Rogers.)
- Rogers, John F., Cleveland Heights, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Fuel-feeding mechanism for gas producers. No. 1,435,942; Nov. 21.
- Rogers, John F., Cleveland Heights, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Fuel-feeding mechanism. No. 1,439,912; Dec. 26.
- Rogers, John F., Cleveland Heights, and J. S. McClimon, assignors to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Valve. No. 1,402,181; Jan. 3.
- Rogers, Karl H., Philadelphia, Pa. Toy figure. No. 1,409,411; Mar. 14.
- Rogers, Louis, Albion, assignor of sixty per cent to W. V. Hamel, Erie, Pa. Road planer. No. 1,432,791; Oct. 24.
- Rogers, Manly C. (See Rogers, Charles L. and M. C., and Brown.)
- Rogers, Milton W., Live Oak, Fla. Inner-tube protector for clincher rims. No. 1,406,687; Feb. 14.
- Rogers, Miron W., Harwich, Mass. Insect exterminator. No. 1,405,334; Jan. 31.
- Rogers, Richard H., Paddington, London, England. Beam or like structural member for use in reinforced concrete construction and other purposes. No. 1,433,232; Oct. 24.
- Rogers, Robert D., assignor of one-half to G. B. Somerville, Johnstown, Pa. Dumping truck. No. 1,429,974; Sept. 26.
- Rogers, Spencer C., et al. (See Newman, Harry C., assignor.)
- Rogers, Spencer C., Ocean Park, Calif. Shipping-tag holder. No. 1,405,006; Jan. 31.
- Rogers, Thomas C. (See Bell, T. W., and Rogers.)
- Rogers, William H., Perth Amboy, N. J. Reversing mechanism for engines. No. 1,403,569; Jan. 17.
- Rogers, William R., St. Louis, Mo. Truck frame. No. 1,438,664; Dec. 12.
- Rogerson, Wallace M., assignor to Wallace Institute, Chicago, Ill. Educational appliance. No. 1,435,660; Nov. 14.
- Rogert, Emil M., Euclid Heights, Ohio. Bath cock. No. 1,434,963; Nov. 7.
- Roginger, John, Chicago, Ill. Extension table. No. 1,414,304; Apr. 25.
- Roghmans, Theodor, Sonsbeck, Germany. Monorail railway with aeroplane cars. No. 1,415,400; May 9.
- Rogilio, Joe B., Houston, Tex. Steam generator. No. 1,415,952; May 16.
- Rognlie, Severin J., Lewistown, Mont. Phonograph. No. 1,420,668; June 27.
- Rohde, Thomas A., Timothy, Wis. Cheese ring. No. 1,411,066; Mar. 28.
- Rohder, Carl A., Denver, Colo. Device for dispensing contents of bottles. No. 1,408,472; Mar. 7.
- Rohland, Charles A., assignor to Vacuum Glass Machine Company, Uniontown, Pa. Machine for the manufacture of vacuum-wall containers. No. 1,436,197; Nov. 21.
- Rohland, Curt J., Worcester, Mass., and J. H. Wheelock, Fitzwilliam, N. H., assignors, by mesne assignments, to J. H. Wheelock, Worcester, Mass. Signal and alarm system. No. 1,439,761; Dec. 26.
- Röhm, Otto, Darmstadt, Germany. Making glue and the like from glue material. No. 1,405,741; Feb. 7.
- Röhm, Otto, Darmstadt, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Means for greasing leather of all kinds and for oil tanning. No. 1,414,044; Apr. 25.
- Röhm, Otto, Darmstadt, Germany, assignor to The Chemical Foundation, Inc. Tanning with aluminum salts. No. 1,421,723; July 4.
- Röhm, Otto, Darmstadt, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Tanning with iron salts. No. 1,426,322; Aug. 15.
- Röhm & Haas Aktiengesellschaft. (See Bauer, Walter, assignor.)
- Rohmer, Gabriel E., Brooklyn, N. Y. Die-casting machine. No. 1,403,266; Jan. 10.
- Rohn, George F., Electric Company. (See Rohn, George F., assignor.)
- Rohn, George F., assignor to George F. Rohn Electric Company, Milwaukee, Wis. Fuse. No. 1,404,322; Jan. 24.
- Rohn, George F., assignor to George F. Rohn Electric Company, Milwaukee, Wis. Fuse holder. No. 1,404,323; Jan. 24.
- Rohn, George F., assignor to George F. Rohn Electric Company, Milwaukee, Wis. Fuse puller. No. 1,404,324; Jan. 24.
- Rohn, Oscar E., assignor to Union Special Machine Company, Chicago, Ill. Guiding device for sewing machines. No. 1,435,661; Nov. 14.
- Rohn, Wilhelm, Hanau, Germany. Induction furnace. No. 1,431,686; Oct. 10.
- Rohne, Even J., Minneapolis, Minn. Thermostat and thermostatic control device. No. 1,434,633; Nov. 7.
- Rohne, Even J., assignor of one-half to O. K. Boe, Minneapolis, Minn. Electric vulcanizer. No. 1,426,603; Aug. 22.
- Rohnow, Gustav F. W., Kenosha, Wis. Multiple-screen mixing device. No. 1,404,652; Jan. 24.
- Rohr, Andrew J. (See Durham, C. E., and Rohr.)
- Rohr, Henry R., Buckhannon, W. Va. Curtain pole. No. 1,406,685; Feb. 14.
- Rohr, Joseph, and H. Gilbert, Brooklyn, N. Y. Device for removing coconut shells. No. 1,413,386; Apr. 18.
- Rohrer, Daniel W., Trenton, N. J. Permutation padlock. No. 1,434,315; Oct. 31.
- Rohrer, John M., Orwigsburg, Pa. Oil can. No. 1,419,988; June 20.
- Rohrer, John W., Columbus, Ohio. Driving mechanism for locomotive stokers. No. 1,421,994; July 4.
- Rohrich, Ralph A. (See Theberath, Joseph C., assignor.)
- Rohrs, Friederich W., Rosedale, Md. Motor fuel. No. 1,425,136; Aug. 8.
- Roiderer, Richard, Cleveland, Ohio. Brick mold. No. 1,440,105; Dec. 26.
- Roikjer, Andrew H., Boise, Idaho. Interlocking device for avoiding double exposures and blank films. No. 1,427,973; Sept. 5.
- Roirant, Emile, assignor to A. Wilzin, St. Ouen, Seine, France. Machine or apparatus for the manufacture of bottles and other blown glassware. No. 1,438,665; Dec. 12.
- Rojas, Florical A., New York, N. Y. Rheostat. (Reissue.) No. 15,478; Oct. 24.
- Róka, Koloman, assignor to the firm of Holzoverkohlungs-Industrie Actien-Gesellschaft, Konstanz, Baden, Germany. Chlorination of acetylene. No. 1,418,882; June 6.
- Roland, Duane E. E., Philadelphia, Pa. Cutting attachment for tube forming machines. No. 1,413,191; Apr. 18.
- Roland, Fred B. (See Chandler, C. D., and Roland.)
- Roley, Adam, Basil, Ohio. Sled. No. 1,411,808; Apr. 4.
- Rolfes, George H., assignor to Handlan-Buck Manufacturing Company, St. Louis, Mo. Bail holder for lanterns. No. 1,405,007; Jan. 31.
- Rolfes, George H., assignor to Handlan-Buck Manufacturing Company, St. Louis, Mo. Lamp. No. 1,418,832; June 6.
- Rolfes, George H., assignor to Handlan-Buck Manufacturing Company, St. Louis, Mo. Lamp and making bases therefor. No. 1,427,126; Aug. 29.
- Rolland, Edmond, Boulogne-sur-Seine, France. Hydraulic reaction wheel for watering or other purposes. No. 1,435,140; Nov. 7.
- Rollermout Manufacturing Company. (See Palmer C. L., and Hollister, assignors.)
- Roller, Conrad C., Buffalo, N. Y. Metallurgical furnace. No. 1,429,777; Sept. 19.
- Roller, Frank W., East Orange, N. J., assignor to Roller-Smith Company. Measuring instrument. No. 1,435,259; Nov. 14.
- Roller-Smith Company. (See Roller, Frank W., assignor.)
- Rollins, George L., Kansas City, Mo. Combined milk pail and stool. No. 1,426,508; Aug. 22.
- Rollins, George L., Kansas City, Mo., assignor of one-half to J. W. Reed, Chicago, Ill. Sounding toy. No. 1,404,894; Jan. 31.
- Rollins, John O., Sawtelle, Calif. Bottle closure. No. 1,431,427; Oct. 10.
- Rollins, John O., Sawtelle, Calif. Attachment for stoves. No. 1,434,151; Oct. 31.
- Rollins, William T., assignor to R. Codman, Jr., Boston, Mass. Antiskid attachment for elastic tires. No. 1,423,026; July 18.
- Rollins, Wingate, Hyde Park, C. K. Seymour, Winchester, and J. A. Sargent, Cambridge, Mass. Vehicle lock. No. 1,415,401; May 9.
- Rolls-Royce Limited. (See Elliott, A. G., and Southern, assignors.)
- Rolls-Royce Limited. (See Hall, Horace C., assignor.)
- Rolls-Royce Limited. (See Royce, Frederick H., assignor.)
- Rolph, Henry M., Markham, Ontario, Canada. Plant marker. No. 1,435,178; Nov. 14.
- Rolph, Thomas W., Sebring, Ohio, assignor to General Electric Company. Shade holder. No. 1,430,854; Oct. 3.
- Rolph, William M., London, England. Signaling apparatus for use with motor-driven and other vehicles. No. 1,406,493; Feb. 14.
- Rolph, William M., London, England. Signaling apparatus. No. 1,406,494; Feb. 14.
- Roman, Lewis, Akron, Ohio. Reinforcement for ice-cream tubs and making same. No. 1,432,123; Oct. 17.
- Romans, Charles, Bloomington, Ill. Ear-corn cleaner. No. 1,413,617; Apr. 25.
- Romans, Edgar D., assignor to G. Waldref, St. Paul, Minn. Manifold bracket. No. 1,417,691; May 30.
- Rombough, Charles E., Long Beach, Calif. Hatpin. No. 1,420,500; June 20.
- Romeiser, Wilhelm, Lichterfelde, near Berlin, and L. Schiff, Berlin, assignors to H. Malzoff, Dresden, Saxonia, Germany. Device for preventing the theft of motor cars and the like. No. 1,428,450; Sept. 5.
- Römer, Adolf, Stuttgart, and L. Blangely, Mannheim, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Tanning. No. 1,414,045; Apr. 25.
- Römer, Adolf, Stuttgart, and L. Blangely, Mannheim, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Tanning. No. 1,421,722; July 4.
- Romer, John C., Brooklyn, N. Y. Umbrella stand. No. 1,413,432; Apr. 18.

Alphabetical list of patentees—Continued.

- Romero, Luis A., San Francisco, Calif. Making coffee extract. No. 1,428,256; Sept. 5.
- Romine, James C., South Bend, Ind. Wrench. No. 1,403,199; Jan. 10.
- Romine Manufacturing Co. (See Burgess, Harry A., assignor.)
- Romine, Raymond, Waldo, W. Va. Novelty. No. 1,435,179; Nov. 14.
- Romine, William M. (See Clark, W. J., and Romine.)
- Rominger, H. Darrill. (See Anderson, Ralph, assignor.)
- Romm, Joseph, New York, N. Y. Display rack. No. 1,439,841; Dec. 26.
- Rommer, Isaac A., Brooklyn, N. Y. Walking toy. No. 1,414,210; Apr. 25.
- Rommer, Isaac A., Brooklyn, N. Y. Guide. No. 1,429,166; Sept. 12.
- Rommer, Isaac A., Brooklyn, N. Y. Display device for walking figures. No. 1,439,640; Dec. 19.
- Rommer, Isaac A., Brooklyn, N. Y. Display device for walking figures. No. 1,439,641; Dec. 19.
- Ronalter, Joseph M., Stafford Springs, Conn. Electric switch. No. 1,428,186; Sept. 5.
- Ronca, Louis, Jersey City, N. J. Steering-wheel lock. No. 1,429,696; Sept. 19.
- Rondelli, Tito, Turin, and Q. Sestini, Bergamo, Italy, assignors of one-third to Sestron (Foreign patents.) Limited, London, England. Coloration of metallic surfaces. No. 1,417,413; May 23.
- Rondelli, Tito, Turin, and Q. Sestini, Bergamo, Italy, assignors of one-third to Sestron (Foreign Patents) Limited, London, England. Oxidation of ferrous surfaces. No. 1,439,447; Dec. 19.
- Roneo Limited. (See Barman, Louis M., assignor.)
- Roney, Henry C., Princeton, W. Va. Throttle valve. No. 1,409,783; Mar. 14.
- Ronin, Thoms J., et al. (See McLagan, William N., assignor.)
- Ronk, Albert T. (See Kercher, L. and A. T. and G. T. Ronk.)
- Ronk, George T. (See Kercher, L., and A. T. and G. T. Ronk.)
- Ronning, Adolph. (See Ronning, Andrean G. and A.)
- Ronning, Andrean G. and A., Minneapolis, Minn. Universal hitch device. No. 1,406,418; Feb. 14.
- Rontey, Pierre A., and R. Taylor, Coscob, Conn. Picture constructor. No. 1,415,712; May 9.
- Rood, Fletcher C., Walla Walla, Wash. Flushing tank. No. 1,426,509; Aug. 22.
- Roof, John A., Canastota, N. Y. Apparatus for cleansing and sterilizing empty cans. No. 1,411,380; Apr. 4.
- Roof, Robert M., Anderson, Ind. Internal-combustion engine. No. 1,416,977; May 23.
- Roof, Robert M., Anderson, Ind. Multiple-valve-grinding machine. No. 1,424,035; July 25.
- Roof, Walter R., Chicago, Ill. Protective covering for waterproofing coating on concrete. No. 1,407,772; Feb. 28.
- Roofing Patents Company, The. (See Speer, Alexander S., assignor.)
- Roof, Harold N., and F. M. Payn, Friendship, Wis. Emergency repair hub for automobiles. No. 1,407,675; Feb. 21.
- Rooks, J. E., Andersonville, Ga. Bed bottom. No. 1,427,020; Aug. 22.
- Rooney, Patrick J., New Rochelle, N. Y. Power-transmission appliance. No. 1,415,120; May 9.
- Rooney, William H., New York, N. Y. Apparatus for keeping police-officers' records. No. 1,437,076; Nov. 28.
- Roop, Joseph L., Los Angeles, Calif. Film-driving means. No. 1,437,152; Nov. 28.
- Roope, Rufus P., et al. (See Brown, Edward W., assignor.)
- Roos, Charles A. (See Meyer, G. W., and Roos.)
- Roos, Delmar G., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Holder for rims and tires. No. 1,407,300; Feb. 21.
- Roos, Delmar G., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Clutch. No. 1,424,036; July 25.
- Roos Foundries, Inc. (See Gallagher, Richard D., assignor.)
- Roos, Henry W., Cincinnati, Ohio. Lifting implement. No. 1,415,055; May 9.
- Roost, Richard. (See Huebsch, J. and Roost.)
- Root, Bertwell C., assignor to Hydraulic Machinery Company Limited, Montreal, Quebec, Canada. Pulp thickener. No. 1,438,860; Dec. 12.
- Root, Bertwell C., assignor to Hydraulic Machinery Company Limited, Montreal, Quebec, Canada. Pulp screen. No. 1,438,861; Dec. 12.
- Root, Chapman J. (See Samuelson, Alexander, assignor.)
- Root, Frank J., Chicago, Ill. Treating coal. No. 1,425,012; Aug. 15.
- Root, Fred N., Kalamazoo, Mich. Life guard for street cars or similar vehicles. No. 1,414,435; May 2.
- Root, Lemma J., Seattle, Wash. Clutch. No. 1,410,511; Mar. 21.
- Root, Sidney W., et al. (See Wagner, Leslie A., assignor.)
- Root, Waldo D., and C. E. Helmick, Pleasant Valley, Oreg.; said Root assignor to said Helmick. Water motor. No. 1,434,264; Oct. 31.
- Root, Walter E., Seattle, Wash. Automobile signal. No. 1,405,870; Feb. 7.
- Root, Walter E., Seattle, Wash. Vehicle signal. No. 1,420,343; June 20.
- Root, William D., assignor, by mesne assignments, to The Guardian Savings and Trust Company, trustee, Cleveland, Ohio. Corn popping and vending machine. No. 1,436,726; Nov. 28.
- Roots, James D., West Kensington, London, England. Revolving-cylinder internal-combustion engine. No. 1,437,447; Dec. 5.
- Roots, James D., West Kensington, London, England. System of aerial railways. No. 1,438,862; Dec. 12.
- Rope, Arthur E., Brooklyn, N. Y. Combination vanity case. No. 1,421,311; June 27.
- Rope, Arthur E., Brooklyn, N. Y. Combination face brush. No. 1,422,787; July 11.
- Rope, Arthur E., Brooklyn, N. Y. Rubber heel. No. 1,426,218; Aug. 15.
- Roper, Charles H. (See Perrault, J. E., and Roper.)
- Roper, Osmer W., Vineland, N. J. Article carrier. No. 1,437,777; Dec. 5.
- Roquefort-Villeneuve, Jean L. L., Paris, France. Constructional toy. No. 1,428,496; Sept. 5.
- Rorison, John C., New York, N. Y. Fountain pen. No. 1,425,607; Aug. 15.
- Rosa, John B., Detroit, Mich. Tile-making apparatus. No. 1,433,417; Oct. 24.
- Rosak, Karl, Berlin, Germany. Manufacturing counter pieces to gauges, formed bars, profile pieces, and the like. No. 1,423,154; July 18.
- Rosamond, Arthur R., Laramie, Wyo., assignor to D. E. Soden, Kansas. Electric time-switch mechanism. No. 1,421,833; July 4.
- Rosan, Clifford D., New Haven, Conn. Container and delivery mechanism. No. 1,421,312; June 27.
- Rosbach, Joseph, Campaw, N. J. Machine element. No. 1,402,797; Jan. 10.
- Roscoe, Anthony, Brooklyn, N. Y. Dough-cutting machine. No. 1,434,409; Nov. 7.
- Roscoe, George, Two Harbors, Minn. Signaling device. No. 1,407,822; Feb. 28.
- Roscoe, Thomas H. (See Haskin, Joseph J., assignor.)
- Rose, Abel, Cleveland, Ohio. Trousers support. No. 1,423,684; July 25.
- Rose, Anton, assignor to The Guarantee Specialty Manufacturing Company, Cleveland, Ohio. Snap fastener. No. 1,439,025; Dec. 19.
- Rose, Arthur F., New Brighton, N. Y., assignor to American Telephone and Telegraph Company. Battery supply circuits for repeaters. No. 1,436,683; Nov. 28.
- Rose, Arthur J., New York, N. Y. Pattern for trousers. No. 1,416,383; May 16.
- Rose, Connie C. (See Cox, O. M., and Rose.)
- Rose, David E., and H. E. Hossfeld, Topeka, Kans. Trunk. No. 1,413,062; Apr. 18.
- Rose, Edward E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, Trolley frog. No. 1,406,285; Feb. 14.
- Rose, Edward E., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley-frog approach. No. 1,406,286; Feb. 14.
- Rose, Edward E., and P. L. Mardis, Swissvale, Pa., assignors to Westinghouse Electric & Manufacturing Company. Push-button switch. No. 1,425,697; Aug. 15.
- Rose, Elon J., Portland, Oreg. Dental crown structure. No. 1,425,055; Aug. 8.
- Rose, Frank G. (See Lee, F. A., and Rose.)
- Rose, George F., et al. (See Houston, William, assignor.)
- Rose, Harold J. (See Sperr, F. W., Jr., and Rose.)
- Rose, Harry B., Buffalo, N. Y. Bar reverser. No. 1,406,084; Feb. 7.
- Rose, Harry E., Geary, Okla. Wrench. No. 1,402,659; Jan. 3.
- Rose, Henry, deceased, by W. H. Rose, administrator, Gainsborough, England. Machine or apparatus for wrapping cakes or blocks, such as caramels or other sweetmeats and the like. No. 1,414,831; May 2.
- Rose, Henry, deceased, by W. H. Rose, administrator, Gainsborough, England. Wrapping machine. No. 1,434,152; Oct. 31.
- Rose, Howard C., Detroit, Mich., assignor to The Ingersoll Milling Machine Company, Rockford, Ill. Circular milling machine. No. 1,421,030; June 27.
- Rose, Hugh B., Redondo Beach, Calif. Game. No. 1,407,223; Feb. 21.
- Rose, Jacob R., Philadelphia, Pa. Portable phonograph. No. 1,424,681; Aug. 1.
- Rose, James F., assignor of one-half to F. Del Vecchio, Bellaire, Ohio. Automobile locking device. No. 1,430,325; Sept. 26.
- Rose, James R. (See Harris, John, assignor.)
- Rose, James R., Edgeworth, Pa. Electric heating device. No. 1,431,184; Oct. 10.
- Rose, James R., Edgeworth, Pa., and J. Harris, Lakewood, Ohio, assignors to Carbo-Oxygen Company, Pittsburgh, Pa. Gaseous fuel. No. 1,404,219; Jan. 24.
- Rose, James R., Edgeworth, Pa., and J. Harris, Lakewood, Ohio, assignors to Carbo-Oxygen Company, Pittsburgh, Pa. Gaseous fuel. No. 1,404,220; Jan. 24.
- Rose, James R., Edgeworth, Pa., and J. Harris, Lakewood, Ohio, assignors to Carbo-Oxygen Company, Pittsburgh, Pa. Gaseous fuel. No. 1,404,221; Jan. 24.

- Rose, James R., Edgewood, Pa., and J. Harris, Lakewood, Ohio, assignors to Carbo-Oxygen Company, Pittsburgh, Pa. Gaseous fuel. No. 1,404,222; Jan. 24.
- Rose, James R., Edgeworth, Pa., and J. Harris, Lakewood, Ohio, assignors to Carbo-Oxygen Company, Pittsburgh, Pa. Gaseous fuel. No. 1,404,223; Jan. 24.
- Rose, James R., Edgeworth, Pa., and J. Harris, Lakewood, Ohio, assignors to Carbo-Oxygen Company, Pittsburgh, Pa. Gaseous fuel. No. 1,404,224; Jan. 24.
- Rose, James R., Edgeworth, Pa., and J. Harris, Lakewood, Ohio, assignors to Carbo-Oxygen Company, Pittsburgh, Pa. Gaseous fuel. No. 1,404,225; Jan. 24.
- Rose, James R., Edgeworth, Pa., and J. Harris, Lakewood, Ohio, assignors to Carbo-Oxygen Company, Pittsburgh, Pa. Gaseous fuel. No. 1,404,226; Jan. 24.
- Rose, James R., Edgeworth, Pa., and J. Harris, Lakewood, Ohio, assignors to Carbo-Oxygen Company, Pittsburgh, Pa. Gaseous fuel. No. 1,404,227; Jan. 24.
- Rose, James R., Edgeworth, Pa., and J. Harris, Lakewood, Ohio, assignors to Carbo-Oxygen Company, Pittsburgh, Pa. Gaseous fuel. No. 1,404,228; Jan. 24.
- Rose, James R., Edgeworth, Pa., and J. Harris, Lakewood, Ohio, assignors to Carbo-Oxygen Company, Pittsburgh, Pa. Gaseous fuel. No. 1,404,229; Jan. 24.
- Rose, James R., Edgeworth, Pa., and J. Harris, Lakewood, Ohio, assignors to Carbo-Oxygen Company, Pittsburgh, Pa. Gaseous fuel. No. 1,404,230; Jan. 24.
- Rose, James R., Edgeworth, Pa., and J. Harris, Lakewood, Ohio, assignors to Carbo-Oxygen Company, Pittsburgh, Pa. Gaseous fuel. No. 1,404,231; Jan. 24.
- Rose, James R., Edgeworth, Pa., and J. Harris, Lakewood, Ohio, assignors to Carbo-Oxygen Company, Pittsburgh, Pa. Gaseous fuel. No. 1,404,232; Jan. 24.
- Rose, James R., Edgeworth, Pa., and J. Harris, Lakewood, Ohio, assignors to Carbo-Oxygen Company, Pittsburgh, Pa. Gaseous fuel. No. 1,404,233; Jan. 24.
- Rose, James R., Edgeworth, Pa., and J. Harris, Lakewood, Ohio, assignors to Carbo-Oxygen Company, Pittsburgh, Pa. Gaseous fuel. No. 1,404,234; Jan. 24.
- Rose, James R., Edgeworth, Pa., J. Harris, Lakewood, Ohio, assignors to Carbo-Oxygen Company, Pittsburgh, Pa. Gaseous fuel. No. 1,404,235; Jan. 24.
- Rose, James R., Edgeworth, Pa., and J. Harris, Lakewood, Ohio, assignors to Carbo-Oxygen Company, Pittsburgh, Pa. Gaseous fuel. No. 1,404,236; Jan. 24.
- Rose, James R., Edgeworth, Pa., and J. Harris, Lakewood, Ohio, assignors to Carbo-Oxygen Company, Pittsburgh, Pa. Gaseous fuel. No. 1,404,237; Jan. 24.
- Rose, Jay, Brooklyn, assignor to Dilator Syringe Corporation, New York, N. Y. Douche nozzle. No. 1,434,964; Nov. 7.
- Rose, Joseph E., Portland, Oreg. Making artificial teeth. No. 1,407,483; Feb. 21.
- Rose, Joseph E., Portland, Oreg. Artificial tooth. No. 1,423,027; July 18.
- Rose, Marshall O., Oregon City, Oreg. Clockworks. No. 1,420,447; June 20.
- Rose, Nancy A., Republic, Wash. Pancake iron. No. 1,417,351; May 23.
- Rose, Otto W. (See Jones, J. G., and Rose.)
- Rose, Reed P., New York, N. Y. assignor to Morgan & Wright. Compounding and vulcanizing rubber and products thereof. No. 1,433,099; Oct. 24.
- Rose, Salvatore D., Seattle, Wash. Annunciator-setting device. No. 1,438,555; Dec. 12.
- Rose, Thomas W., Savannah, Ga. Valve gear. No. 1,418,473; June 6.
- Rose, William, Gainsborough, England. Apparatus for inserting articles into open-ended receptacles, envelopes, sheaths, or cases. No. 1,407,581; Feb. 21.
- Rose, William H., administrator. (See Rose, Henry.)
- Rose, William H., Jersey City, N. J. Dry-spray gun. No. 1,406,903; Feb. 14.
- Rose, William H., Jersey City, N. J. Dry-spray gun. No. 1,406,904; Feb. 14.
- Rose, William H., Jersey City, N. J. Container. No. 1,409,412; Mar. 14.
- Rose, William H., Jersey City, N. J. Cleaning device. No. 1,428,806; Sept. 12.
- Rose, William H., Jersey City, N. J. Cleaning device. No. 1,428,807; Sept. 12.
- Rosebush, Waldo E., Spokane, assignor to Inland Empire Paper Co., Millwood, Wash. Grindstone mounting. No. 1,405,335; Jan. 31.
- Rosehill, Michael, Lobley, Alberta, Canada. Tongs. No. 1,415,196; May 9.
- Röseke, Otto, Stuttgart, Germany. Alarm clock with preceding alarm. No. 1,424,213; Aug. 1.
- Röseke, Otto, Stuttgart, Germany. Alarm clock. No. 1,424,214; Aug. 1.
- Roselius, Henry, Amsterdam, Holland. Extraction of the caffeine out of coffee beans. No. 1,414,096; Apr. 25.
- Rosen, David, New York, N. Y. Battery. No. 1,417,692; May 30.
- Rosen, Hyman, New York, N. Y. Button-making machine. No. 1,431,260; Oct. 10.
- Rosen, Louis, Edgewater, Colo. Mechanical movement. No. 1,425,902; Aug. 15.
- Rosenband, Albert, Newark, N. J., assignor to Rosenband Mfg. Co. Handle-loop fastener. No. 1,436,684; Nov. 28.
- Rosenband Mfg. Co. (See Rosenband, Albert, assignor.)
- Rosenberg, Heyman, New York, N. Y. Sheet-metal structure and fastener therefor. No. 1,411,184; Mar. 28.
- Rosenberg, Heyman, New York, N. Y. Damper. No. 1,411,745; Apr. 4.
- Rosenberg, Heyman, New York, N. Y. Punch. No. 1,411,809; Apr. 4.
- Rosenberg, Heyman, New York, N. Y. Punch. No. 1,418,474; June 6.
- Rosenberg, Irving, New York, N. Y. Bumper. No. 1,414,211; Apr. 25.
- Rosenberg, Louis E. (See Spector, B., and Rosenberg.)
- Rosenblum, Samuel, Lynbrook, N. Y. Tassel. No. 1,413,618; Apr. 25.
- Rosenbluth, Edwin M. (See Scoville, Royal L., assignor.)
- Rosenbluth, Edwin M., Philadelphia, Pa. Automobile radiator water heater. No. 1,434,153; Oct. 31.
- Rosendahl, Nils M., Winthrop Harbor, assignor to F. C. Austin, Chicago, Ill. Mixing-machine-indicator attachment. No. 1,410,126; Mar. 21.
- Rosener, Leland S., assignor to The Paraffine Companies, Inc., San Francisco, Calif. Winding apparatus. No. 1,433,849; Oct. 31.
- Rosener, Leland S., San Francisco, and R. H. Taylor, Oakland, Calif., said Taylor assignor to said Rosener. Marine railway and the like. No. 1,404,407; Jan. 24.
- Rosenfeld, Arthur, St. Louis, Mo. Spark plug. No. 1,430,756; Oct. 3.
- Rosenfeld, Francis M., Elberon, assignor, by mesne assignments, to Diamond Electric Specialties Corporation, Newark, N. J. Flash light. No. 1,405,630; Feb. 7.
- Rosenfeld, Joseph E. (See Keller, Jeremiah, assignor.)
- Rosenfeld, Mortimer C. (See Anthony, Marcus O., assignor.)
- Rosenfield, Adolph A., Dayton, N. J. Mechanical cow milker. No. 1,412,092; Apr. 11.
- Rosengart, Sylvain, assignor to La Société dite; Etablissements L. Rosengart Siège Social, Paris, France. Generator for electric lamps. No. 1,416,513; May 16.
- Rosengren, Ed, et al., trustees. (See Paul, Christian F., Jr., assignor.)
- Rosenkranz, Max, assignor to National Tube Company, Pittsburgh, Pa. Cooling table. No. 1,407,169; Feb. 21.
- Rosenlof, Vecktor, Reedley, Calif. Radiator cap. No. 1,433,912; Oct. 31.
- Rosenmeyer, Herbert. (See Arendt, M., Burrows, and Rosenmeyer.)
- Rosenstein, Meyers, Minneapolis, Minn. Handle bar. No. 1,435,662; Nov. 14.
- Rosenthal, David M., Southbridge, Mass. Furniture. No. 1,412,895; Apr. 18.
- Rosenthal, Harry, New York, N. Y. Perpetual calendar. No. 1,438,724; Dec. 12.
- Rosenthal, Herman, New York, N. Y. Shipping case. No. 1,432,359; Oct. 17.
- Rosenthal, Leon W. (See Kuehn, G. F., and Rosenthal.)
- Rosenthal, Leon W., New York, N. Y., and Gustave J. Lang, Weehawken, N. J., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Electric ignition apparatus. No. 1,431,261; Oct. 10.
- Rosenthal, Morris G., assignor of one-half to F. E. Klein, Cincinnati, Ohio. Laundry tag. No. 1,415,713; May 9.
- Rosenthal, Rubin, New York, N. Y. Ring and setting. No. 1,412,810; Apr. 11.
- Rosenthal, Rubin, Brooklyn, N. Y. Ring and plate therefor. No. 1,417,352; May 23.
- Rosenwasser Bros. Inc. (See Rosenwasser, Morris, assignor.)
- Rosenwasser, Morris, New York, assignor to Rosenwasser Bros. Inc., Long Island City, N. Y. Legging. No. 1,430,030; Sept. 26.
- Rosenwinkel, Walter F. (See Gross, Jesse E., assignor.)
- Rosenzweig, Abe S. (See Coulson, William, assignor.)
- Rosh, John, Kelayres, Pa. Drill pounder. No. 1,403,871; Jan. 17.
- Rosheim, Elling I., Roland, Iowa. Mechanism for preparing molds for dental castings. No. 1,416,305; May 16.
- Rosine, Conrad, and E. N. Boucher, Chicago, Ill.; said Rosine assignor of one-half of his right to W. Robertson, Chicago, Ill. Telephone attachment. No. 1,434,265; Oct. 31.
- Rosino, Gilbert G., Sandusky, Ohio. Foot-impression-taking device. No. 1,435,943; Nov. 21.
- Rosling, Cecil, assignor of one-half to R. H. Davis, London, England. Nonreturn valve. No. 1,404,408; Jan. 24.
- Roslund, Nels P., Macworth, Saskatchewan, Canada. Animal-releasing device. No. 1,419,989; June 20.
- Ross, Adam, Waukegan, Ill. Garment. No. 1,414,155; Apr. 25.
- Ross, Arthur G., Vancouver, British Columbia, Canada. Refrigerating machine. No. 1,416,878; May 23.
- Ross, Benjamin, Brooklyn, N. Y. Shank piece for shoes. No. 1,430,190; Sept. 26.
- Ross, Charles A., Detroit, Mich. Annealing furnace. No. 1,409,584; Mar. 14.
- Ross Chemical Company. (See Miles, George W., assignor.)
- Ross, Chester H., administrator. (See Abraham, Clinton D.)
- Ross, David E., assignor to Ross Gear and Tool Company, Lafayette, Ind. Differential gear. No. 1,429,100; Sept. 12.
- Ross, David E., assignor to Ross Gear and Tool Company, Lafayette, Ind. Steering gear. No. 1,429,101; Sept. 12.

Alphabetical list of patentees—Continued.

- Ross, David E., assignor to Ross Gear & Tool Company, Lafayette, Ind. Steering gear. No. 1,429,102; Sept. 12.
- Ross, David E., assignor to Ross Gear & Tool Company, La Fayette, Ind. Steering gear. No. 1,429,103; Sept. 12.
- Ross, Elmer E. (See Lefkowitz, C. Ross, and Lubin.)
- Ross, Emmett H., Jamestown, N. Y. Comb. No. 1,429,635; Sept. 19.
- Ross, Frank V., assignor to F. M. Bowers and Son Company, Indianapolis, Ind. Gasoline clarifier and purifier. No. 1,437,153; Nov. 28.
- Ross, Frederick M., Cincinnati, Ohio. Rim breaker. No. 1,402,660; Jan. 3.
- Ross, Frederick R. W., Orange, N. J. Paper-holding device. No. 1,418,204; May 30.
- Ross Gear & Tool Company. (See Ross, David E., assignor.)
- Ross, Hedley, assignor to Pratt & Lambert, Buffalo, N. Y. Composition for treating airplane and similar fabrics. No. 1,440,178; Dec. 26.
- Ross, Herbert E., Sydney, New South Wales, Australia. Glare-preventing attachment for projector lamps. No. 1,409,413; Mar. 14.
- Ross, Hugh G., Ottawa, Ontario, Canada. Electric connector. No. 1,431,542; Oct. 10.
- Ross, Isidor B., assignor to Adjusto Shoe Lace Company, Incorporated, New York, N. Y. Adjustable tip for shoe and corset laces. No. 1,411,746; Apr. 4.
- Ross, Isidor B., assignor to Elizabeth Berlston, New York, N. Y. Adjustable tip for corset and shoe laces. No. 1,420,219; June 20.
- Ross, James, assignor to Advance Rumely Company, Laporte, Ind. Differential. No. 1,421,834; July 4.
- Ross, John C., Akron, Ohio. Tractor. No. 1,402,093; Jan. 3.
- Ross, John C., Akron, Ohio. Gearing. No. 1,402,094; Jan. 3.
- Ross, John C., Akron, Ohio. Tractor. No. 1,402,095; Jan. 3.
- Ross, John C., assignor to Pacific Car & Foundry Co., Seattle, Wash. Car truck. No. 1,406,287; Feb. 14.
- Ross, John D. and S. D., Vancouver, British Columbia, Canada. Rock pulverizer. No. 1,431,428; Oct. 10.
- Ross, Joseph H., Washington, D. C. Demurrage chart system. No. 1,431,543; Oct. 10.
- Ross, Joseph L. (See Hatcher, Charles M., assignor.)
- Ross, Lanson C., Killdeer, N. Dak. Bracing device. No. 1,437,912; Dec. 5.
- Ross, Louis S., Newtonville, Mass. Railway signal fusee, compound therefor, and making same. No. 1,430,590; Oct. 3.
- Ross, Louis S., Newtonville, Mass., assignor to Central Railway Signal Company, Pittsburgh, Pa. Composition for railway signal torpedoes. No. 1,404,653; Jan. 24.
- Ross, Maxwell, Amarillo, Tex. Dirigible-headlight construction for automobiles. No. 1,434,503; Nov. 7.
- Ross, Milton G., et al. (See Taylor, Joseph H., assignor.)
- Ross, Oscar A., New York, N. Y. Aeroplane propeller or the like. No. 1,402,539; Jan. 3.
- Ross, R. L., and Company. (See Hargreaves, William, assignor.)
- Ross, Raymond O., Goldendale, Wash. Stickpin. No. 1,438,262; Dec. 12.
- Ross Rhoads Company. (See Ross, V., and Rhoads, assignors.)
- Ross, Stanley D. (See Ross, John D. and S. D.)
- Ross, Thomas, Prestwich, near Manchester, assignor to John Hetherington and Sons Limited, Manchester, England. Combining machine. No. 1,407,170; Feb. 21.
- Ross, Vernon, and E. S. Rhoads assignors to Ross Rhoads Company, Kansas City, Mo. Store-front construction. No. 1,430,117; Sept. 26.
- Ross, Vernon, and E. S. Rhoads, assignors to Ross Rhoads Company, Kansas City, Mo. Window-front construction. No. 1,430,757; Oct. 3.
- Ross, Virgil D., Albemarle, N. C. Connecting device for automobile tops. No. 1,426,912; Aug. 22.
- Ross, William, Chicago, Ill. Grizzly or screen for grading material. No. 1,414,156; Apr. 25.
- Ross-Meehan Foundries. (See Robbins, F. M., and Hartley, assignors.)
- Roszbach, Rose, Missoula, Mont. Rim for automobile wheels. No. 1,415,402; May 9.
- Rossell, Arthur, Hucknall, England. Coal-cutting machine. No. 1,414,586; May 2.
- Rossi, Dominick, New York, N. Y. Method of and apparatus for making artificial bark. No. 1,407,950; Feb. 28.
- Rossi, Dominick A., and F. Reynolds, Cleveland, Ohio. Excavating machine. No. 1,414,832; May 2.
- Rossi, Karl M., Schenectady, N. Y. Combined guard and hanger for pulleys. No. 1,405,008; Jan. 31.
- Rossignol, Aaron T., Washington, D. C. Combination tool. No. 1,438,138; Dec. 5.
- Rossiter, George A., Brooklyn, assignor to The Carrie Gyroscopic Corporation, New York, N. Y. Gyroscopic compass. No. 1,425,056; Aug. 8.
- Rossmann, William K., assignor to American Zinc, Lead & Smelting Company, St. Louis, Mo. Making of zinc retorts and other refractory shapes. No. 1,424,120; July 25.
- Rosson, George C., Milford, and H. B. Porter, Hillsboro, Tex. Extension-step construction for cars. No. 1,432,624; Oct. 17.
- Rost, Benjamin H., New York, N. Y. Toothbrush. No. 1,413,898; May 16.
- Rost, Carl L., Indianapolis, Ind. Manufacturing lenses. No. 1,438,139; Dec. 5.
- Rost, Peter R. (See Olson, Ole J., assignor.)
- Roszmann, Joseph, Covington, Ky. Permutation lock. No. 1,429,970; Sept. 26.
- Roszmann, Joseph, Covington, Ky. Grease-cup plug. No. 1,430,591; Oct. 3.
- Rotary King Safety Razor Company, The. (See Gullborg, John S., assignor.)
- Rotary Motor Company. (See Yeatts, William, assignor.)
- Rotary Sign Company. (See Selby, W. J., and Gilbert, assignors.)
- Rote, Charles V., assignor of one-half to E. W. Brown, Lancaster, Pa. Pull mechanism for railway cars. No. 1,428,983; Sept. 12.
- Roth, Adolph E., Newark, N. J. Exhaust fan. No. 1,409,199; Mar. 14.
- Roth, Adolph E., Newark, N. J. Closable ventilator. No. 1,425,903; Aug. 15.
- Roth, Albert, and P. A. Ferguson, Pittsburgh, Pa. Temperature indicator. No. 1,429,975; Sept. 26.
- Roth, Arpad, New York, N. Y. Foot support. No. 1,423,456; July 18.
- Roth, August A., Baltimore, Md., assignor to Safety Fender Corporation, Philadelphia, Pa. Fender for motor vehicles. No. 1,435,944; Nov. 21.
- Roth, August H. (See Tino, A., and Roth.)
- Roth, August H., New York, N. Y. Caster. No. 1,407,171; Feb. 21.
- Roth, Carl H., Southport, Lancaster, England. Carpet sweeper. No. 1,407,676; Feb. 21.
- Roth, Charles G. (See Torresen, C. T., and Roth.)
- Roth, Charles T., Newark, N. J., and B. P. Nicholson, Richmond Hill, N. Y. Spark plug. No. 1,424,591; Aug. 1.
- Roth, Ernest, Philadelphia, Pa. Driving means for tanning drums. No. 1,423,028; July 18.
- Roth, Gilbert A., Hastings, Nebr. Luggage carrier. No. 1,431,429; Oct. 10.
- Roth, Gilbert A., Hastings, Nebr. Luggage carrier. No. 1,431,430; Oct. 10.
- Roth, Isidor, Brooklyn, N. Y., assignor to Benjamin & Johnes, Brassiere, No. 1,432,477; Oct. 17.
- Roth, Joe. (See Adams, George D., assignor.)
- Roth, John, Richmond, Calif. Transmission mechanism. No. 1,428,257; Sept. 5.
- Roth, John J., Dayton, Ohio. Photographic-printing machine. No. 1,414,582; May 2.
- Roth, John L. (See Leinberger, J. T., and Roth.)
- Roth, John R., Flint, Mich. Means for supporting rear-axle assemblies. No. 1,420,386; June 20.
- Roth, Louis, assignor to Sterling Bronze Company, New York, N. Y. Operating means for sash adjusters. No. 1,408,008; Mar. 7.
- Roth, Louis, assignor to Sterling Bronze Company, New York, N. Y. Aisle-illuminating means. No. 1,420,059; June 20.
- Roth, Oscar. (See Podhajny, Dmytro, assignor.)
- Roth, William, New York, N. Y. Game apparatus. No. 1,415,267; May 9.
- Roth, William, assignor of one-half to E. F. Springmeyer, St. Louis, Mo. Polishing composition. No. 1,426,107; Aug. 15.
- Rothchild, Edwin E., New York, N. Y. Sand-blast machine. No. 1,433,302; Oct. 24.
- Rothenberg, Harry, Ridgewood, assignor to Henry Hyman & Co., Inc., New York, N. Y. Portable electric light. No. 1,433,913; Oct. 31.
- Rothenberg, Daniel M., Leesport, assignor of one-third to E. P. Wanner and one-third to W. M. Fryermuth, Reading, Pa. Resilient tire. No. 1,426,108; Aug. 15.
- Rothermund, Werner F., Brooklyn, N. Y. Air brush. No. 1,429,537; Sept. 19.
- Rothert, Edward H., Seattle, Wash. Process and apparatus for electric smelting of ores. No. 1,440,106; Dec. 26.
- Rothfeld, Louis, New York, N. Y. Folding bed. No. 1,414,833; May 2.
- Rothmann, William J., New York, N. Y. Antislasher attachment for automobiles. No. 1,403,446; Jan. 10.
- Rothschild, Adolph, assignor to The Straus Co., St. Louis, Mo. Golf or caddy bag. No. 1,438,263; Dec. 12.
- Rothschild, Louis. (See Jarabek, Charles, assignor.)
- Rothstein, Bernard L., Brooklyn, N. Y. Window construction for buildings. No. 1,414,583; May 2.
- Rothwell, Bertram S. (See Schuman, F. J., and Rothwell.)
- Rottenberg, Benjamin, New York, N. Y. Lock for collapsible egg-case fillers. No. 1,412,709; Apr. 11.
- Rottmann, Clarence J. (See Coulson, J., and Rottmann.)
- Rottman, George, New York, N. Y. Armband. No. 1,410,222; Mar. 21.
- Rouch, John A., and T. H. Hastie, Tulsa, Okla. Door-securing device. No. 1,406,085; Feb. 7.
- Rouchleau, Louis J., Los Angeles, Calif. Automobile package carrier. No. 1,433,233; Oct. 24.

Alphabetical list of patentees—Continued.

- Roudanez, Georges, assignor to Lu-Min-Us-Cap Company, Chicago, Ill. Radiator cap for automobiles. No. 1,436,113; Nov. 21.
- Rougé, Raymond, Paris, France. Optical apparatus for ballistic investigation and measurement. No. 1,432,360; Oct. 17.
- Roumimper, Jacobus A., Tjilatjap, Java, assignor of one-half to L. O. Bentum, Tasikmalaja, Java, Dutch East Indies. Compressed-air water elevator. No. 1,438,863; Dec. 12.
- Round, George, Brooklyn, N. Y. Sash lock. No. 1,439,642; Dec. 19.
- Round, George, Brooklyn, N. Y. Can opener. No. 1,439,643; Dec. 19.
- Round, Henry J., London, and G. M. Wright, Chesterfield, England, assignors, by mesne assignments, to Radio Corporation of America, New York, N. Y. wireless telegraph. No. 1,403,640; Jan. 17.
- Round, John J., Wakefield, Mass. Perpetual calendar. No. 1,425,137; Aug. 8.
- Rounsefell, John V., San Francisco, Calif. Box. No. 1,439,842; Dec. 26.
- Rountree, H. W., & Brother Trunk & Bag Co. (See Rountree, Henry W., assignor.)
- Rountree, Henry W., assignor to H. W. Rountree & Brother Trunk & Bag Co., Incorporated, Richmond, Va. Clothes follower or presser. No. 1,437,684; Dec. 5.
- Rouse, John H., and A. M. de Ligne, assignors to W. A. Calvin, San Francisco, Calif. Petcock opening and closing device. No. 1,402,254; Jan. 3.
- Rouse, John J., La Crosse, Wis. Tire protector. No. 1,409,031; Mar. 7.
- Rouse, Lovell M., Portland, Oreg. Bottle capper. No. 1,409,585; Mar. 14.
- Rouse, Thomas, Stamford Hill, England. Manufacture of iron and steel. No. 1,428,061; Sept. 5.
- Roush, Herbert E. (See King, George W. and C. S., Jacoby, Roush, and Holmes.)
- Rousseau, Jean F. R., Indianapolis, Ind. Making composite metal articles. No. 1,416,879; May 23.
- Rousseau, Joseph L., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Matrix manufacture. No. 1,422,136; July 11.
- Rousseau, Joseph L., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Manufacturing matrices. No. 1,422,137; July 11.
- Rousseau, Stanislas, and W. Yoxall, East Alton, Ill., assignors to Western Cartridge Company. Antifouling metal for projectiles. No. 1,427,127; Aug. 29.
- Roussel, George, Donner, La. Means for securing rails in place. No. 1,407,677; Feb. 21.
- Roussel, George, assignor of one-fourth to R. S. Salsman, Donner, La. Means for securing rails in place. No. 1,407,678; Feb. 21.
- Rousset, Jules, Nogent-sur-Marne, France. Manufacture of hollow artificial textile articles. No. 1,427,330; Aug. 29.
- Roussilhe, Henri, Soisy sous Etioles, France. Apparatus for correcting and reproducing aerial photographs. No. 1,410,127; Mar. 21.
- Roussou, Jacques. (See Wolf, Sam, assignor.)
- Routin, Joseph L. (See Schneider, Eugène, assignor.)
- Routin, Joseph L., Paris, France. Apparatus for controlling movements at a distance. No. 1,409,586; Mar. 14.
- Routt, Orville L., G. C. McConnell, and H. L. Glaze, assignors to Plastoid Products, Inc., Los Angeles, Calif. Output carrier. No. 1,408,642; Mar. 7.
- Routt, Orville L., G. C. McConnell, and H. L. Glaze, assignors to Plastoid Products, Inc., Los Angeles, Calif. Machine for making plaster board and the like. No. 1,432,261; Oct. 17.
- Roux, Emile V., Marseilles, France. Building element or block. No. 1,420,220; June 20.
- Roux, Max, Berlin-Friedenau, Germany. Theodolite. No. 1,432,570; Oct. 17.
- Rowan, Alfred J., Sault Ste. Marie, Mich. Lubricant-controlling device for automatically controlling the lubricating system of gas engines of automobiles and other motor vehicles. No. 1,421,995; July 4.
- Rowan, George B., Portland, Oreg. Piston. No. 1,403,917; Jan. 17.
- Rowart, Eugene, Auvelais, Belgium. Apparatus for the manufacture of glass in continuous sheets. No. 1,413,238; Apr. 18.
- Rowden, George V., Hove, England. Daylight developing tank for photographic roll films. No. 1,423,457; July 18.
- Rowdon, Edwin C., Sound Beach, Conn. Gold washing and saving apparatus. No. 1,430,592; Oct. 3.
- Rowe, Edgar C., and A. Mohr, assignor to Mason, Davis & Co., Chicago, Ill. Weighing scale. No. 1,436,360; Nov. 21.
- Rowe, Ernest N., assignor of one-half to H. McMillen, Glenwood Springs, Colo. Snow vehicle. No. 1,429,636; Sept. 19.
- Rowe, George H. (See Spencer, Charles R., assignor.)
- Rowe, George H., and C. W. Humphrey, Los Angeles, Calif. Method and apparatus for metering fluid. No. 1,436,778; Nov. 28.
- Rowe, John, Casey, Iowa. Traction and antiskid device. No. 1,420,149; June 20.
- Rowe, Lewis T., Dayton, Ohio. Toe-plate press. No. 1,433,234; Oct. 24.
- Rowe, Marvin L., Albany, N. Y. Protective covering for automobile drivers. No. 1,424,215; Aug. 1.
- Rowe, Orvis F. (See Kempton, W. H., and Rowe.)
- Rowe, Walter A., Tiffin, Ohio. Lavatory. No. 1,408,830; Mar. 7.
- Rowland, Clifford B., Trenton, N. J. Sanding device for automobiles. No. 1,432,210; Oct. 17.
- Rowland, Daniel I., Denver, Colo. Mechanical movement for windmills and the like. No. 1,402,966; Jan. 10.
- Rowland, James F. (See Stauffer, J. F., and Rowland.)
- Rowland, Valsy E., Indianapolis, Ind. Floor structure. No. 1,424,422; Aug. 1.
- Rowledge, Arthur J., assignor to D. Napier & Son, Limited, London, England. Internal-combustion engine. No. 1,425,057; Aug. 8.
- Rowles, Clem H. (See Richey, W. A., and Rowles.)
- Rowley, Alfred J., assignor of one-tenth to H. Illingworth, one-tenth to N. F. Archibald, one-fiftieth to G. W. Forbes, Regina, Saskatchewan, Canada. Building construction. No. 1,436,779; Nov. 28.
- Rowley, Arthur C., assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa. Cap for hose connections. No. 1,404,895; Jan. 31.
- Rowley, Arthur C., assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa. Fire-extinguishing apparatus. No. 1,438,864; Dec. 12.
- Rowley, Clifford A. (See Crowley, J. P., and Rowley.)
- Rowley, Clifford A., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Method and apparatus for drawing wire glass. No. 1,425,218; Aug. 8.
- Rowley, Edward G., assignor of one-half to Sun Typewriter Company, Newark, N. J. Cooking vessel. No. 1,406,159; Feb. 7.
- Rowley, Edward G., assignor of one-half to Sun Typewriter Company, Newark, N. J. Percolator. No. 1,431,490; Oct. 10.
- Rowley, James F., Chicago, Ill. Matrix for stump legs. No. 1,404,896; Jan. 31.
- Rowley, James F., Chicago, Ill. Artificial limb. No. 1,409,414; Mar. 14.
- Rowley, James F., Chicago, Ill. Transplanting device. No. 1,431,185; Oct. 10.
- Roy, Benjamin J., Seattle, Wash. Purfing-groove cutter. No. 1,432,910; Oct. 24.
- Roy, Edward D., and E. W. Hudson, Greenville, S. C. Tight pulley for looms. No. 1,421,100; June 27.
- Roy, Edward H., Louisville, Ky. Refrigerator. No. 1,409,537; Mar. 14.
- Roy, Edward H., Louisville, Ky. Refrigerator. No. 1,414,097; Apr. 25.
- Roy, Edward H., Louisville, Ky. Refrigerator. No. 1,429,104; Sept. 12.
- Roy, Iréné, Paris, France. Gun-carriage trailer with combined propulsion by wheels and by endless track members. No. 1,426,219; Aug. 15.
- Roy, Joseph. (See Nicolaus, F. G., and Roy.)
- Roy, Joseph J., Glentworth, Saskatchewan, Canada. Clothespin. No. 1,408,779; Mar. 7.
- Roy, Levi J., Providence, R. I. Jeweler's clutch. No. 1,406,688; Feb. 14.
- Roy, Wilfrid J. (See Thompson, W., and Roy.)
- Roy, William O., Montreal, Quebec, Canada. Training trees. No. 1,436,198; Nov. 21.
- Royal Baking Powder Company. (See Paulus, Herman W., assignor.)
- Royal Baking Powder Company. (See Stokes, William E., assignor.)
- Royal Comb Company. (See Holden, Crofton C., assignor.)
- Royal Typewriter Company. (See Dowd, Bernard J., assignor.)
- Royal Typewriter Company, Inc. (See Hess E. B., and Handley, assignors.)
- Royal Typewriter Company, Inc. (See Hess, E. B., and Myers, assignors.)
- Royal Typewriter Company, Inc. (See Hess, Edward B., assignor.)
- Royal Typewriter Company. (See Myers, Lewis C., assignor.)
- Royal Typewriter Company. (See Utz, Anthony, assignor.)
- Royan, George, assignor to American Oven & Machine Company, Chicago, Ill. Dough mixer. No. 1,408,473; Mar. 7.
- Royce, Frederick H., assignor to Rolls-Royce Limited, Derby, England. Piston for reciprocating engines. No. 1,403,641; Jan. 17.
- Royer, William B., assignor of one-half to D. E. Shriver, Baltimore, Md. Safety valve for fluid-pressure pipes. No. 1,418,096; May 30.
- Royer, William R., Wilkes-Barre, Pa. Cap for pneumatic-tire valves. No. 1,408,959; Mar. 7.
- Royer, William R., Wilkes-Barre, Pa. Locking device for valve stems. No. 1,425,545; Aug. 15.
- Royle, Vernon, Paterson, N. J. Strainer head for tubing machines. No. 1,416,067; May 16.
- Roys, Herman E., New York, N. Y., assignor to Universal Interests, Inc. Electric heater. No. 1,426,604; Aug. 22.
- Royst, Harold S., Minneapolis, Minn. Money safe. No. 1,434,226; Oct. 31.
- Royster, Kenneth B. (See Royster, William E., Jr., and K. B.)
- Royster, William E., Jr., and K. B., Henderson, Ky. Computing machine. No. 1,414,436; May 2.

Alphabetical list of patentees—Continued.

- Boystone, William H., New York, N. Y. Toilet article. No. 1,425,138; Aug. 8.
- Rubel, Harry W., Chicago, Ill. Lavatory. No. 1,403,348; Jan. 10.
- Ruben, Samuel, New York, N. Y. Method of and apparatus for promoting chemical reactions between gases. No. 1,431,047; Oct. 3.
- Ruberoid Co., The. (See Abraham, Herbert, assignor.) (Reissue.)
- Rubin, Adolph, assignor to Sieber Products Mfg. Co., St. Louis, Mo. Corrugating machine. No. 1,420,060; June 20.
- Rubin, Tony, New York, N. Y. Car door. No. 1,440,107; Dec. 26.
- Robinson, Harry, Des Moines, Iowa. Jar-closure device. No. 1,426,605; Aug. 22.
- Rubinstein, Barnett, St. Louis, Mo. Cloth clamp. No. 1,435,981; Nov. 21.
- Rubovits, Toby, Chicago, Ill. Combined letter sheet and envelope. No. 1,413,875; Apr. 25.
- Rubsam, Charles F., Brooklyn, N. Y. Vehicle wheel. No. 1,420,448; June 20.
- Rub-Tex Products, Inc. (See Klug, Louis E., assignor.)
- Rubwood, Inc. (See Atwood, Harry N., assignor.)
- Ruby, Frank, Bridgeport, Conn. Automatic railway-accident preventer. No. 1,414,376; May 2.
- Ruche, Abraham. (See Coopersmith, Rudolph, assignor.)
- Rudd, Harry B., Mansfield, Ohio. Apparatus for sterilizing liquids. No. 1,432,124; Oct. 17.
- Ruddell, Richard, assignor to Cheney Brothers. South Manchester, Conn. Engraving machine. No. 1,434,794; Nov. 7.
- Ruddell, William A., Asbury Park, N. J. Glove pattern. No. 1,427,419; Aug. 29.
- Rudder, Walter K., Chicago, Ill. Rail joint. No. 1,409,200; Mar. 14.
- Ruddy, Thomas H., Kalama, Wash. Automatic damper for stovepipes. No. 1,405,871; Feb. 7.
- Rude, Cora, Volin, S. Dak. Flour-sifter attachment. No. 1,427,643; Aug. 29.
- Rude, Oscar L., Westby, Wis. Garden weed puller. No. 1,403,110; Jan. 10.
- Rudge-Whitworth Limited. (See Pugh, John V., assignor.)
- Rudich, Charles, assignor, by mesne assignments, to The Kny-Scheerer Corporation of America, New York, N. Y. Adjustable twin saw. No. 1,426,676; Aug. 22.
- Rudich, Emil S. (See Goetz, R. S., and Rudich.)
- Rudick, Joseph, Akron, Ohio. Mute. No. 1,411,522; Apr. 4.
- Rudiger, Abraham M. (See Brautigam, Anthony F., assignor.)
- Rudin, Karl V., Stockholm, Sweden. Full-stroke mechanism for calculating machines. No. 1,424,183; Aug. 1.
- Rudin, Karl V., Stockholm, Sweden. Zero-resetting device. No. 1,435,556; Nov. 14.
- Rudnick, George E., Boston, Mass., assignor to Victor Talking Machine Company, Camden, N. J. Drop-cover check. (Reissue.) No. 15,350; May 9.
- Rudolph, Charles W., and W. J. Schlacks, Chicago, Ill. Ratchet drive. No. 1,426,109; Aug. 15.
- Rudolph, Elmer J., Wakefield, Kans. Inner-tube cover. No. 1,406,086; Feb. 7.
- Rudolph, Emmett H., Pershing, Okla. Tank-car-loading device. No. 1,424,037; July 25.
- Rudolph, Hettie E., Bisbee, Ariz. Electrically-heated presser foot. No. 1,406,760; Feb. 14.
- Rudolph, John L., Delano, Minn. Bushing remover. No. 1,424,261; Aug. 1.
- Rudolph, Wallace A., Renville, Minn. Feed hopper for poultry. No. 1,427,021; Aug. 22.
- Rudolph, Frank, assignor to American Can Company, New York, N. Y. Flange curling and counting machine. No. 1,440,179; Dec. 26.
- Rudy, Allen W., Dalton, Ohio. Padlock protector. No. 1,429,105; Sept. 12.
- Rudy, John, New Britain, Conn. Pipe wrench. No. 1,424,381; Aug. 1.
- Rudzik, Martin. (See Windish, Fred, assignor.)
- Rueb, Earl J. (See Edney, Hiram L., assignor.)
- Ruebsamen, Albert. (See Woods, C. H., and Ruebsamen.)
- Ruebsamen, Albert, Decatur, Ill. assignor to Decatur Supply & Fare Register Company. Highway guidepost. No. 1,412,632; Apr. 11.
- Ruediger, Ernest H., Bismarck, N. Dak. Combined cold-water bath and refrigerator. No. 1,412,198; Apr. 11.
- Ruediger, Jerome J., Baltimore, Md. Sanitary milk-bottle lock. No. 1,414,584; May 2.
- Ruegg, Henry, Jr., Weehawken, N. J. Heddle. (Reissue.) No. 15,509; Dec. 19.
- Ruehl, Arthur L. (See Ruehl, Edwin H. and A. L.)
- Ruehl, August W. (See Maisack, Jacob T., assignor.)
- Ruehl, Edwin H. and A. L., St. Louis, Mo. Electric heating device. No. 1,408,403; Feb. 28.
- Ruehrwein, Charles J., assignor of one-fourth to C. J. Zube, one-fourth to J. Lawson, and one-fourth to W. Reinke, Cincinnati, Ohio. Composition of matter and making water-closet tanks and lids and water-closet seats and covers. No. 1,437,618; Dec. 5.
- Ruemelin, Richard, Stillwater, Minn. Sand-blast apparatus. No. 1,415,403; May 9.
- Ruetschi, Arnold, Lakewood, Ohio. Drill press. No. 1,434,564; Nov. 7.
- Ruff, Domenick, Youngstown, Ohio. Spring-rewinding machine. No. 1,430,326; Sept. 26.
- Ruff, Frederick A., Newark, N. J. Combined mat and luggage carrier. No. 1,418,676; June 6.
- Ruff, Otto, Breslau, Germany. Waterproofing composition. No. 1,428,258; Sept. 5.
- Ruff, William, New York, N. Y. Gaseous-fuel burner. No. 1,423,155; July 18.
- Ruffalo, John B., New York, N. Y. Type holder. No. 1,403,447; Jan. 10.
- Ruffalo, John B., New York, N. Y. Combination for printing facsimiles of typewritten letters. No. 1,411,381; Apr. 4.
- Ruffo, Emanuele, and V. Calderaro, Rome, Italy. Fire bar. No. 1,433,480; Oct. 24.
- Ruffo, Vincenzo G., Rome, Italy. Medicine against consumption. No. 1,435,335; Nov. 14.
- Ruge, Wilhelm, Berlin, Germany. Foot bandage. No. 1,406,583; Feb. 14.
- Ruger, Durl P., assignor to T. Marshall, Chicago, Ill. Voltage regulator. No. 1,402,656; Jan. 3.
- Rugg, Frank D., Greenfield, Mass. Support for ice-cream freezers. No. 1,421,724; July 4.
- Ruggles, Horace F., West Englewood, N. J. Weighing hoist for sugar cane and the like. No. 1,436,727; Nov. 28.
- Ruggles-Klingemann Co. (See Kimball, James L., assignor.)
- Ruhe, Carleton, New York, N. Y. Leather-polishing machine. No. 1,419,522; June 13.
- Ruhe, Paul P., Hoboken, N. J., and W. A. Sonen, New York, N. Y. Sewing machine. No. 1,405,443; Feb. 7.
- Ruhlandt, Walther C., Jackson, Mich. Reamer. No. 1,415,121; May 9.
- Ruhm, Herman D. (See Meadows, T. C., and Ruhm.)
- Ruhoff, Otto E., assignor to French Battery & Carbon Co., Madison, Wis. Dry-cell construction. No. 1,432,417; Oct. 17.
- Ruiz, Charles, Belleville, N. J. Valve-grinding device. No. 1,427,913; Sept. 5.
- Rule, John F., assignor to The Owens Bottle Company, Toledo, Ohio. Method and means for forming and transferring gobbs of molten glass. No. 1,413,788; Apr. 25.
- Rule, John F., assignor to The Owens Bottle Company, Toledo, Ohio. Glass apparatus. No. 1,438,402; Dec. 12.
- Rulfs, Carl H., Bannister, Tex. Adjustable wrench. No. 1,403,978; Jan. 17.
- Rullo, Vincenzo, Philadelphia, Pa. Bicycle. No. 1,439,263; Dec. 19.
- Rumberg, Victor C., Ogema, Wis. Combination door lock. No. 1,438,666; Dec. 12.
- Rumble, Elsie G., administratrix. (See Rumble, William, Jr.)
- Rumble, William, Jr., deceased, East Orange; E. G. Rumble, administratrix, assignor to Battin & Company, Newark, N. J. Cigarette or cigar holder. No. 1,415,404; May 9.
- Rumery, Charles C., and F. G. Spates, Eastport, Me. Hot-water motor appliance. No. 1,414,751; May 2.
- Rumfelt, Clarence, Oakland, Calif. Automatic commutator-brush adjuster. No. 1,406,495; Feb. 14.
- Rummler, Francis J. (See Prescott, S. I., and Rummler.)
- Rumney, Fred A., Cambridge, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Eyelet reservoir. No. 1,409,201; Mar. 14.
- Rumpf, Max, and W. E. Nimz, Chicago, Ill.; said Nimz assignor to said Rumpf. Hand stamp. No. 1,405,444; Feb. 7.
- Rumsey, William W., Milwaukee, Wis. Safety light. No. 1,425,139; Aug. 8.
- Rumsey, William W., Milwaukee, Wis. Safety light. No. 1,425,140; Aug. 8.
- Runcie, William T., Maplewood, N. J. Tent ventilator. No. 1,428,543; Sept. 5.
- Rundell, Raymond R., assignor of one-third to G. C. Haesloop, Elmira, N. Y. Combined check and closer. No. 1,425,900; Aug. 15.
- Rundle, Anna, et al. (See Snyder, William A., assignor.)
- Rundle, Earl P., et al. (See Snyder, William A., assignor.)
- Rundle, Fred A., Lockhart, Fla., assignor to Whiting Corporation, Harvey, Ill. Combination automatic and lowering brake for hoisting machines. (Reissue.) No. 15,302; Mar. 7.
- Rundle-Spence Manufacturing Co. (See Owen, Charles F., assignor.)
- Runey, Charles F., Hoffland, Nebr., and J. H. Show, Los Angeles, Calif., assignors to Potash Reduction Company, Hoffland, Nebr. Process for treating alkali-metal salts and alkali-metal-salt brines. No. 1,409,784; Mar. 14.
- Runge, Robert F., Philadelphia, Pa., assignor to The Hess-Bright Manufacturing Company. Gauge. No. 1,435,501; Nov. 14.
- Runge, Walter, Orange, N. J., assignor to International Coal Products Corporation, Richmond, Va. Obtaining tar acids. No. 1,409,588; Mar. 14.
- Runge, Walter, Orange, and H. A. Curtis, Maplewood, N. J., assignors to Bréget Corporation of America, Wilmington, Del. Recovery of phenol vapors evolved from solvent recovery process by phenolates. No. 1,439,128; Dec. 19.

- Runge, Walter, Orange, and H. A. Curtis, Maplewood, N. J., assignors to Bregate Corporation of America, Wilmington, Del. Recovery of phenol vapors by tar oils. No. 1,440,108; Dec. 26.
- Runk, John, Stillwater, Minn. Phonograph-record-cleaning attachment. No. 1,404,147; Jan. 17.
- Runkle, Harry M. (See Battelle, G., Runkle, and Tobin.)
- Runnebaum, George, Westpoint, Tenn. Bed support. No. 1,420,755; June 27.
- Runnels, Walter S., Kalamazoo, Mich. Sawing and trimming machine. No. 1,408,831; Mar. 7.
- Runnels, Walter S., Kalamazoo, Mich. Radiator cover. No. 1,422,306; July 11.
- Running, Tom, Juneau, Alaska. Seine-operating mechanism. No. 1,421,996; July 4.
- Runyan, Clarence, Aurora, Ind. Comb cleaner. No. 1,422,788; July 11.
- Rupe, Judson R., assignor to Central Wheel Company, Sturgis, Mich. Wire wheel. No. 1,411,382; Apr. 4.
- Rupe, Roscoe B., Seattle, and D. A. and A. R. Hazelton, Tacoma, Wash. Springboard-supporting device. No. 1,437,864; Dec. 5.
- Rupe, Stephen E. (See Filer, J. M., and Rupe.)
- Rupert, Dale M., et al. (See Igney, William D. F., assignor.)
- Rupert, Demus R., Huntington, Ind. Railway-crossing signal mechanism. No. 1,418,475; June 6.
- Rupp, Laurente, New York, N. Y. Razor-blade holder. No. 1,414,046; Apr. 25.
- Rupp, Laurente, New York, N. Y. Device for sharpening razor blades. No. 1,431,598; Oct. 10.
- Rupp, Raymond C., Kendallville, Ind. Door closure for the top portions of automobiles. No. 1,414,585; May 2.
- Ruppel, Charles, Cleveland, Ohio. Wood-carving machine. No. 1,433,154; Oct. 24.
- Ruppel, Frederick C., assignor to Hayes-Ruppel Manufacturing Company, Grand Rapids, Mich. Device for coating the interior of hollow articles. No. 1,404,547; Jan. 24.
- Ruppert, Jacob, Bethlehem, Pa. Saw clamp. No. 1,410,512; Mar. 21.
- Ruprecht, Albert, Asperg, Germany. Ignition plug. No. 1,412,751; Apr. 11.
- Rupright Engineering Company. (See Rupright, Frederick E., assignor.)
- Rupright, Frederick E., assignor to Rupright Engineering Company, Grand Haven, Mich. Internal-combustion engine. No. 1,405,009; Jan. 31.
- Rupright, Howard J. (See Strosacker, C. J., and Rupright.)
- Rüsborg, Friedrich, Mannheim, assignor to Firm of Rhenania Verein Chemischer Fabriken Aktien-Gesellschaft, Zweigniederlassung, Mannheim, Mannheim-Wohlgelegen, Germany. Rendering crude phosphates soluble. No. 1,428,259; Sept. 5.
- Rusch, John W., Buffalo Lake, Minn. Door-space closure for freight cars. No. 1,409,589; Mar. 14.
- Rusch, Melvin C. (See Tolkdorf, A., and Rusch.)
- Ruscher, Harold, and O. S. Payzant, New York, N. Y. Ticket carrier. No. 1,409,785; Mar. 14.
- Ruschmeyer, William J. H., Toledo, Ohio. Combination lock. No. 1,427,551; Aug. 29.
- Rush, Allan C., Los Angeles, assignor of one-half to H. L. Miller Glendale, Calif. Ocean pier. No. 1,423,884; July 25.
- Rush, Carl, Wharton, Tex. Washboard. No. 1,412,710; Apr. 11.
- Rush, Henry R., Sedan, Kans. Well-casing swage. No. 1,403,570; Jan. 17.
- Rush, Joseph K. (See Brown, William C., assignor.)
- Rush, Milton A. (See Brindamour, John B., assignor.)
- Rushmore, Samuel W., Plainfield, N. J. Starter for engines. No. 1,405,742; Feb. 7.
- Rushmore, Samuel W., Plainfield, N. J. Electric-elevator-control system. No. 1,427,644; Aug. 29.
- Rushton, Elmer T. (See Berry, R. S., and Rushton.)
- Rushton, Kenneth, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Electric locomotive. No. 1,411,185; Mar. 28.
- Rushton, Kenneth, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Ash-pan hanger for locomotives. No. 1,433,418; Oct. 24.
- Rushworth, George A. W., Manchester, England. Rotary duplicating machine. No. 1,407,087; Feb. 21.
- Rushworth, James, Aurora, Ind. Belt shifter. No. 1,404,897; Jan. 31.
- Ruskin, Lewis. (See Cohen, Jacob L., assignor.)
- Rusnak, Verona, Cleveland, Ohio. Coffee mill and sifter. No. 1,406,761; Feb. 14.
- Russ, Chester A. (See McCrary, J. H., and Russ.)
- Russ, George F., Jersey City, N. J. Envelope filling and closing machine. No. 1,421,835; July 4.
- Russ, John B., Shelton, Conn. Producing tin-coated sheets. No. 1,435,260; Nov. 14.
- Russ, John D., Spencer, W. Va. Oil-well machinery. No. 1,409,066; Mar. 7.
- Russ, John D., Spencer, W. Va. Oil-well machinery. No. 1,409,067; Mar. 7.
- Russell, Albert P., assignor to The Sherwin Williams Company, Cleveland, Ohio. Machine for making and attaching balls. No. 1,435,336; Nov. 14.
- Russel, Albert W., assignor to Russel Motor Axle Company, Detroit, Mich. Vehicle axle. No. 1,421,836; July 4.
- Russel Motor Axle Company. (See Russel, Albert W., assignor.)
- Russell, Austin P. (See Campbell, William C., assignor.)
- Russell, Charles D., St. Paul, Minn., assignor to Russell-Weber Steel Products Company, Youngstown, Ohio. Spike. No. 1,430,758; Oct. 3.
- Russell, Clarence A., Carson, Iowa. Water-circulating pump for internal-combustion engines. No. 1,433,235; Oct. 24.
- Russell Company, The. (See Kinsley, William S., assignor.)
- Russell, Earl C. (See Holmgren G., Scharnhorst, Trask, and Russell.)
- Russell, Edward J., Contesville, Pa. Cooling system for open furnace fronts. No. 1,411,186; Mar. 28.
- Russell, Emerson C., Chicago, Ill. Automobile locking device. No. 1,437,020; Nov. 28.
- Russell, Frank N., Elmira, N. Y. Trolley wheel. No. 1,418,833; June 6.
- Russell, Frank S., Chicago, Ill. Fly screen. No. 1,435,982; Nov. 21.
- Russell Grader Manufacturing Co. (See Anderson, A., and Wold, assignors.)
- Russell, Grant E., St. Louis, Mo. Fencepost and wire fastener. No. 1,426,777; Aug. 22.
- Russell, Guy M., Rochester, assignor to American Piano Company, New York, N. Y. Automatic musical instrument. No. 1,409,483; Mar. 14.
- Russell, Guy M., Rochester, assignor to American Piano Company, New York, N. Y. Automatic musical instrument. No. 1,409,487; Mar. 14.
- Russell, Guy M., Syracuse, assignor to American Piano Company, New York, N. Y. Automatic musical instrument. No. 1,409,497; Mar. 14.
- Russell, Henry F. (See Lundeen, N. J., and Russell.)
- Russell, Henry M., Wheeling, W. Va. Changing-view display apparatus. No. 1,423,262; July 18.
- Russell, Henry N. (See Webster, D. L., and Russell.)
- Russell, Herbert O., Los Angeles, Calif., and C. L. Paulus, Dayton, Ohio. Lock mechanism for machine guns. No. 1,427,855; Sept. 5.
- Russell, Herbert O., Detroit, Mich., and C. L. Paulus, Dayton, Ohio. Signal gun. No. 1,436,534; Nov. 21.
- Russell, Herbert O., Los Angeles, Calif., and C. L. Paulus, Dayton, Ohio. Bowden trigger control for machine guns. No. 1,436,535; Nov. 21.
- Russell, Herbert O., Los Angeles, Calif., and L. J. Eyler, Dayton, Ohio. Spade grip for machine guns. No. 1,436,536; Nov. 21.
- Russell, Ian N., Sydney, and G. W. Grayson, Kensington, near Sydney, New South Wales, Australia. Self-contained sanitary closet. No. 1,419,587; June 13.
- Russell, J. M. (See Clark, James H., assignor.)
- Russell, John, Maryhill, Glasgow, Scotland. Button-stitching machine. No. 1,408,474; Mar. 7.
- Russell, Joseph C., Pittsburgh, Pa. Card index. No. 1,423,029; July 18.
- Russell, Joseph C., Pittsburgh, Pa. Card index. No. 1,423,030; July 18.
- Russell, Malle L., Philadelphia, Pa. Garment supporter. No. 1,405,445; Feb. 7.
- Russell Mfg. Co., The. (See Baer, William H., assignor.)
- Russell Manufacturing Co., The. (See Fisher, William C., assignor.)
- Russell, Mitchell W., Springfield, Mass. Faucet. No. 1,429,637; Sept. 19.
- Russell, Richard F. (See Zouck, G. H., and Russell.)
- Russell, Richard F., Jersey City, N. J., assignor to Air Reduction Company, Inc. Acetylene generator. No. 1,410,603; Mar. 28.
- Russell, Richard F., Jersey City, N. J., assignor to Air Reduction Company, Inc. Acetylene generator. No. 1,410,604; Mar. 28.
- Russell, Richard F., Jersey City, N. J., assignor to Air Reduction Company, Inc. Truck. No. 1,432,037; Oct. 17.
- Russell, Robert C., Pittsburgh, Pa. Index. No. 1,435,663; Nov. 14.
- Russell, Robert C., Pittsburgh, Pa. Index. No. 1,435,664; Nov. 14.
- Russell, Samuel G., assignor to The Shakespeare Company, Kalamazoo, Mich. Fishing reel. No. 1,417,632; May 30.
- Russell, Samuel G., assignor to The Shakespeare Company, Kalamazoo, Mich. Fishing reel. No. 1,425,141; Aug. 8.
- Russell, Samuel G., assignor to Shakespeare Company, Kalamazoo, Mich. Fishing reel. No. 1,439,762; Dec. 26.
- Russell, Sarian, Beecroft, New South Wales, Australia. Appliance for teaching arithmetic. No. 1,405,610; Jan. 31.
- Russell, Silas B., assignor to Parker-Russell Mining & Manufacturing Company, St. Louis, Mo. Retort-discharging apparatus. No. 1,438,725; Dec. 12.
- Russell, Thomas C., Chicago, Ill. Electrical heating device. No. 1,419,309; June 13.
- Russell, Thomas C., Chicago, Ill. Toaster. No. 1,425,546; Aug. 15.
- Russell, Thomas C., Chicago, Ill. Commutator. No. 1,432,038; Oct. 17.
- Russell, Thomas N. (See Tesseyman, J. E., and Russell.)
- Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car roof. No. 1,410,513; Mar. 21.

Alphabetical list of patentees—Continued.

- Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car end. No. 1,414,157; Apr. 25.
- Russell, William C., East Sheen, England. Adjustable propeller device. No. 1,418,399; June 6.
- Russell, William H., New Haven, Conn. Combination tire holder and extricator. No. 1,402,447; Jan. 3.
- Russell, William N., New Haven, Conn. Antiwindow-rattler. No. 1,402,017; Jan. 3.
- Russell-Weber Steel Products Company. (See Russell, Charles D., assignor.)
- Russell-Weber Steel Products Company. (See Weber, Gottlieb, assignor.)
- Russen, Anthony C. P., Newark, N. J. Attachment for milling or grinding machines. No. 1,407,485; Feb. 21.
- Rust, Charles H., Newark, N. J. Automobile lock. No. 1,424,262; Aug. 1.
- Ruszcak, John. (See Ruszcak, Valentine and J.)
- Ruszcak, Valentine and J., Chicago, Ill. Furrow-opening apparatus. No. 1,404,795; Jan. 31.
- Ruth, Charles H., Huntington Park, Calif. Excavator. No. 1,438,332; Dec. 12.
- Rutherford, John E., Toronto, Ontario, Canada. Vehicle license-number holder and illuminator. No. 1,422,480; July 11.
- Rutherford, John T. (See Jones, R., and Rutherford.)
- Rutherford, Madison B. (See Harding, Henry C., assignor.)
- Rutherford, Nealon D., Lansing, Mich., assignor to United Engine Company. Milking machine. No. 1,416,880; May 23.
- Rutherford, Nealon D., Lansing, Mich., assignor to United Engine Company. Teat cup for milking machines. No. 1,430,191; Sept. 26.
- Ruthrauff, William E., Coffeyville, Kans. Flooring construction. No. 1,407,679; Feb. 21.
- Rutbs, Johannes K., Djursholm, assignor to Aktiebolaget Vaporackumulator, Stockholm, Sweden. Pressure lock for digesters. No. 1,419,763; June 13.
- Rutledge, Frank L., Pittsburgh, Pa. Drier. No. 1,406,496; Feb. 14.
- Rutledge, Frank I., Pittsburgh, Pa. Macaroni-trimming machine. No. 1,406,497; Feb. 14.
- Rutstrum, Calvin, Minneapolis, Minn. Skate-sharpener clamp. No. 1,420,756; June 27.
- Rutten, Frank M., and A. R. Hilsabeck, Grand Forks, N. Dak.; said Rutten assignor to said Hilsabeck. Automatic safety adjustable coupling. No. 1,436,199; Nov. 21.
- Rutter, Harley E., Pittsburgh, Pa. Wrench. No. 1,424,521; Aug. 1.
- Ruttle, Harry E., Chicago, Ill. Globe holder. No. 1,437,448; Dec. 5.
- Rutz, Arnold O., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Power-transmission belt. No. 1,427,856; Sept. 5.
- Rutz, Arnold O., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Belt. No. 1,429,638; Sept. 19.
- Rutzler, George F., Charlotte, N. C. Hook or retaining device for fire buckets or the like. No. 1,431,431; Oct. 10.
- Ruizler, Robert L., Charlotte, N. C. Hollow building block. No. 1,437,077; Nov. 28.
- Ruwitich, Julius, Chicago, Ill. Drawer construction. No. 1,438,333; Dec. 12.
- Ruzicka, Frank. (See Suffa, S. J., and Ruzicka.)
- Ruzicka, Frank L., St. Louis, Mo. Stake lock. No. 1,416,881; May 23.
- Ryall, Richard J. H. (See Cooper, T. L. R., and Todman, assignors.)
- Ryalls, Henry W., Thurmond, W. Va. Valve for gauge cocks. No. 1,421,572; July 4.
- Ryals, Hamilton, Helena, Ga. Rat trap. No. 1,431,844; Oct. 10.
- Ryan, Arthur F. (See Wellington, A. W., and Ryan.)
- Ryan, Arthur R., Calgary, Alberta, Canada. Door device. No. 1,404,238; Jan. 24.
- Ryan, Bernard, New York, N. Y. Thermostatic controller for gas-water heaters. No. 1,404,898; Jan. 31.
- Ryan, Charles H., Bronxville, N. Y. Apparatus for heating soldering irons and the like. No. 1,436,461; Nov. 21.
- Ryan, Daniel J., and L. J. Feltes, Cleveland, Ohio. Process of and apparatus for pouring metal. No. 1,426,110; Aug. 15.
- Ryan, Dennis P., Toledo, Ohio. Artificial minnow and making same. No. 1,402,798; Jan. 10.
- Ryan, John A., Rochester, N. Y. Sash-cord coupling. No. 1,425,547; Aug. 15.
- Ryan, John H., Chicago, Ill. Preparing paper-coating composition. No. 1,407,773; Feb. 28.
- Ryan, John H., Kalamazoo, Mich. Preparing paper-coating compositions. No. 1,434,227; Oct. 31.
- Ryan, John N., Enid, Okla. Muntin fastener. No. 1,410,514; Mar. 21.
- Ryan, Joseph H., Pittsburgh, Pa. Bituminous mixing machine. No. 1,420,757; June 27.
- Ryan, Lawrence F., Yonkers, N. Y. Game device. No. 1,402,799; Jan. 10.
- Ryan, Lonnie W., assignor to Lindsay Light Company, Chicago, Ill. Recovery of thorium. No. 1,407,141; Feb. 21.
- Ryan, Michael B., Milford, Conn. Chain link. No. 1,407,043; Feb. 21.
- Ryan, Michael H., assignor of one-tenth to J. J. Peyron, San Bernardino, Calif. Air-brake detail. No. 1,418,400; June 6.
- Ryan, Michael W., and M. Uttendorfer, Seattle, Wash. Radiometer. No. 1,422,378; July 11.
- Ryan, Thomas F. (See Barstow, Welch, assignor.)
- Ryan, Thomas H., Newark, N. J. Supporter hook. No. 1,406,087; Feb. 7.
- Ryan, Walter D., Schenectady, N. Y. Vehicle headlight. No. 1,428,662; Sept. 12.
- Ryan, Walter D'A., Schenectady, N. Y. Device for lighting smudge pots. No. 1,405,011; Jan. 31.
- Ryan, William. (See Gold, William P., assignor.)
- Ryan, William J., Toronto, Ontario, Canada. Safety fastener. No. 1,432,039; Oct. 17.
- Ryan-Cushing Co. (See May, Joseph M., assignor.)
- Rybicki, Edward A., Chicago, Ill., assignor, by mesne assignments, to Universal Gasket & Manufacturing Co. Automatic gasket-making machine. No. 1,404,899; Jan. 31.
- Rybicki, Valentine T., and B. Greenfield, New York, N. Y. Corner-cutting gauge for paper-cutting machines. No. 1,402,540; Jan. 3.
- Rychiger, Rudolf, and E. Küpfér, Steffisburg, Switzerland. Apparatus for producing edged work according to a pattern. No. 1,405,743; Feb. 7.
- Rydberg, Heige S. A., Malmö, Sweden. Membrane. No. 1,411,187; Mar. 28.
- Ryder, Arthur V., Eastbourne, England. Sparking plug. No. 1,403,448; Jan. 10.
- Ryder, Ely M. T., Yonkers, N. Y. Vehicle body. No. 1,413,192; Apr. 18.
- Ryder, Ely M. T., Yonkers, N. Y. Welded rail joint. No. 1,422,623; July 11.
- Ryder, Gilbert E., Leonia, N. J. Dies for making return bends. No. 1,417,944; May 30.
- Ryder, Harold W., Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling device. No. 1,434,795; Nov. 7.
- Ryder, John H., Brooklyn, assignor to Standard Wire Tire Corporation, New York, N. Y. Tire. No. 1,424,855; Aug. 8.
- Ryding, Herbert C., and A. W. Allen, Birmingham, Ala. Manufacture of open-hearth steel. No. 1,423,031; July 18.
- Ryding, Herbert C., and G. A. Millar, Birmingham, Ala. Lead spindle. No. 1,439,380; Dec. 19.
- Ryer, Carson F., et al. (See Hartin, Robert C., assignor.)
- Ryerson, Cornelius A., Toronto, Ontario, Canada. Fuel-saving attachment for furnaces. No. 1,408,536; Mar. 7.
- Ryerson, Cornelius A., Toronto, Ontario, Canada. Fuel-saving attachment for furnaces. No. 1,438,611; Dec. 12.
- Ryerson, Joseph T., & Son. (See Mikshel, John J., assignor.)
- Ryerson, Thorval L., Park Ridge, assignor to W. D. Allen Manufacturing Company, Chicago, Ill. Screw plug and making same. No. 1,419,588; June 13.
- Rygh, Olaf M., Minneapolis, Minn. Fastener. No. 1,438,264; Dec. 12.
- Rylander, Joel A., Nixon, Tex. Boll-weevil trap. No. 1,409,973; Mar. 21.
- Rylander, Parrish H., Austin, Tex. Knee pad. No. 1,436,537; Nov. 21.
- Rymal, George J., Denver, Colo. Combined cooking range and water heater. No. 1,412,633; Apr. 11.
- Rymer, John A., assignor of one-half to E. V. Tiffany, Oakland, Calif. Enameling wood or metal surfaces. No. 1,406,498; Feb. 14.
- Rynerson, Fred J., San Diego, Calif. Ladder foot. No. 1,417,353; May 23.
- Rynkiewicz, Alexander. (See Kania, Rudolf, assignor.)
- Ryon, Edward A., Pittsburgh, assignor to F. W. Siemens, Wellsboro, Pa. Glass-grinding machine. No. 1,429,106; Sept. 12.
- Ryon, Eppa H., Waltham, Mass. Valve mechanism for gas engines. No. 1,422,138; July 11.
- Rypinski, Albert B., Brooklyn, assignor to T. E. Murray, New York, N. Y. Electrical riveting. (Reissue.) No. 15,364; May 23.
- Rypinski, Albert B., assignor to T. E. Murray, Brooklyn, N. Y. Service switch. No. 1,437,778; Dec. 5.
- Ryther, Henry A., Montague, assignor to Millers Falls Company, Millers Falls, Mass. Glass cutter. No. 1,419,310; June 13.
- Rzatkiewicz, Stephen A., Milwaukee, Wis. Gate latch. No. 1,418,174; May 30.
- Rzepka, Ludwik, Chicago, Ill. Lock. No. 1,438,140; Dec. 5.
- S. H. Hoves Co. Inc. (See Barbeau, M. L., and Weber, assignors.)
- S.-A. Kummier & Matter. (See Eichenberger, Ferdinand, assignor.)
- S-P Manufacturing Company, The. (See Olson, John A., assignor.)
- Saal, Henry G. (See Schroder, Fred F., assignor.)
- Saal, Henry G. (See Stafford, Frederick S., assignor.)
- Saallburg, Charles W., assignor to The Prismatone Co., Inc., New York, N. Y. Reproducing pictures. No. 1,407,301; Feb. 21.
- Saallburg, Charles W., assignor to The Prismatone Co., Inc., New York, N. Y. Etching rolls to mutually register. No. 1,407,302; Feb. 21.
- Saallburg, Charles W., assignor to The Prismatone Co., Inc., New York, N. Y. Making grain etchings. No. 1,407,303; Feb. 21.

- Sabatelli, Michele M., Leominster, Mass. Vanity box. No. 1,414,899; May 2.
- Sabattier, Charles F. G., Paris, France. Safety device for electric motor vehicles. No. 1,409,202; Mar. 14.
- Sabin, Herbert B., Cleveland Heights, Ohio. Truck. No. 1,438,334; Dec. 12.
- Sabin, John, assignor to Nashua Machine Company, Inc., Nashua, N. H. Steam trap. No. 1,425,340; Aug. 8.
- Sabo, Nicholas, New York, N. Y. Motion-picture optical system. No. 1,409,974; Mar. 21.
- Sabot, Francis, and A. Schalk, Philadelphia, Pa. Amusement apparatus. No. 1,412,711; Apr. 11.
- Saccone, Vincenzo, Johnstown, Pa. Trolley-pole head. No. 1,417,945; May 30.
- Sachs, Philip, New York, N. Y. System of transportation. No. 1,412,896; Apr. 18.
- Sachs, Philip, New York, N. Y. System of transportation. No. 1,412,969; Apr. 18.
- Sachs, Walter. (See Richardson, G. J., and Sachs.)
- Sacker, John, Finsbury Park, London, England. Hair comb. No. 1,426,111; Aug. 15.
- Sackett, Archie R., San Pedro, Calif. Means for unloading cars. No. 1,412,316; Apr. 11.
- Sackett, Edward H., Arvada, Colo. Aerial tramway grip. No. 1,417,572; May 30.
- Sackman, William H., assignor to Light Manufacturing & Foundry Company, Pottstown, Pa. Piston. No. 1,426,918; Aug. 22.
- Sacks, George P. (See Maynard, Lee H. P., assignor.)
- Sacks, George P. (See Sanna, Anthony R., assignor.)
- Sacks, George P. (See White, George H., assignor.)
- Sacks, Herman, Chicago, Ill. Bloomers. No. 1,425,794; Aug. 15.
- Sacks, Herman, Chicago, Ill. Bloomers. No. 1,425,795; Aug. 15.
- Saco-Lowell Shops. (See Hedrick, Charles C., assignor.)
- Saco-Lowell Shops. (See Naumburg, Robert E., assignor.)
- Saddlemire, Robert L., Schenectady, N. Y. Receptacle. No. 1,410,515; Mar. 21.
- Sadler, Alfred G., Melbourne, Victoria, Australia. Theater chair. No. 1,435,741; Nov. 14.
- Sadler, F. U., Company, The. (See Sadler, Louis E., assignor.)
- Sadler, Herbert A., South Attleboro, Mass. Lid latch. No. 1,414,047; Apr. 25.
- Sadler, Louis E., assignor to The F. H. Sadler Company, Attleboro, Mass. Display easel. No. 1,419,944; June 20.
- Sadler, Louis E., assignor to The F. H. Sadler Company, Attleboro, Mass. Safety device for pins. No. 1,431,127; Oct. 3.
- Sadler, Orin W., Jr., Belle Vernon, Pa. Apparatus for polishing metal articles. No. 1,418,677; June 6.
- Sadler, Samuel S. (See Larison, S. P., and Sadler.)
- Sadler, William W., Booneville, Miss. Oiler. No. 1,404,481; Jan. 24.
- Sadowski, Jakub, Scranton, Pa. Rail support. No. 1,436,824; Nov. 28.
- Sadtler, Samuel S., Philadelphia, Pa., assignor to Essex Specialty Co., Inc., Berkeley Heights, N. J. Phosphorus compound. No. 1,433,100; Oct. 24.
- Saeck, William H., Madison, Wis. Focusing finder for cameras. No. 1,430,684; Oct. 3.
- Sacter, Olaf F., and E. O. Harris, Fergus Falls, Minn. Fastener for mud chains. No. 1,408,309; Feb. 28.
- Safepack Mills. (See Thomas, William G., jr., assignor.)
- Safetee Glass Company. (See Gibbs, Ralph A., assignor.)
- Safetee Glass Company. (See Shuman, Frank, assignor.)
- Safety Block Signal Company, The. (See Williams, Frank C., assignor.)
- Safety Car Heating & Lighting Company. (See Coffee, Bassett M., assignor.)
- Safety Car Heating and Lighting Company, The. (See Creveling, John L., assignor.)
- Safety Car Heating & Lighting Company. (See Hulse, George E., assignor.)
- Safety Car Heating & Lighting Company, The. (See Tabb, Warner T., assignor.)
- Safety Car Heating & Lighting Company. (See Varley, Thomas W., assignor.)
- Safety Car Heating and Lighting Company, The. (See Watson, Leonard A., assignor.)
- Safety Fender Corporation. (See Roth, August A., assignor.)
- Safety Release Clevis Co. (See Hulsebos, A. B., and Besten, assignors.)
- Safety Shoe Rest & Shoe Shining Company. (See Santaniello, Emilio, assignor.)
- Saffold, James W., Cleveland, Ohio. Wrench. No. 1,415,714; May 9.
- Saffold, Ray P., Esbee, Ariz. Shell for rock-drilling machines. No. 1,412,712; Apr. 11.
- Saf-Pak Manufacturing Company. (See Krannert, Victor L., assignor.)
- Safstrom, Esther V. (See Kriesel, Gustave F., assignor.)
- Safstrom, Gustaf A., Chicago, Ill. Tire tool. No. 1,439,381; Dec. 19.
- Sage, Edwin R., Baltimore, Md. Refrigeration apparatus. No. 1,430,263; Sept. 26.
- Sage, George W., jr., Port Chester, N. Y. Bicycle. No. 1,429,107; Sept. 12.
- Sage, Ralph V., and J. J. McGarrigle, Philadelphia, Pa. Side frame. No. 1,431,687; Oct. 10.
- Sager, George A., Albany, N. Y. Seat-cutting tool. No. 1,435,502; Nov. 14.
- Sagl, William, Minneapolis, Minn. Coil-forming machine. No. 1,436,322; Nov. 21.
- Sahlbin, Walter G., Boston, Mass. Hand vise. No. 1,402,893; Jan. 10.
- Said, Jesse M., assignor to Corning Glass Works, Corning, N. Y. Obtaining glass. No. 1,424,184; Aug. 1.
- Sailer, George D., assignor to McKee Glass Company, Jeannette, Pa. Glass baking dish. No. 1,413,063; Apr. 18.
- St. Clair, Byron W., Lynn, Mass., assignor to General Electric Company. Regulation of electrical apparatus. No. 1,408,040; Feb. 28.
- St. Clair, Palmer, jr. (See Arnold, E. E., and St. Clair.)
- St. Clair, Palmer, jr., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Heat exchanger or condenser. No. 1,423,695; July 25.
- St. Clair, Palmer, jr., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. High-temperature preheater for fluids. No. 1,439,340; Dec. 19.
- St. Jean, Arthur, and I. Lafeur, New Bedford, Mass. Automobile signal. No. 1,426,612; Aug. 22.
- St. John, George I., trustee, et al. (See St. John, George I., assignor.)
- St. John, George I., Berkeley, assignor to himself and to F. F. Cassidy, Nevada City, Calif., trustees. Paint oil. No. 1,408,544; Mar. 7.
- St. John, Miles C., Chicago, Ill. Mold for airplane propellers. No. 1,411,310; Apr. 4.
- St. John, Miles C., Chicago, Ill. Automatically-releasing anchoring device for aerial vehicles. No. 1,427,500; Aug. 29.
- St. John, William. (See Byers, Benjamin O., assignor.)
- St. Joseph Iron Works. (See Eklund, John G., assignor.)
- St. Joseph Lead Company. (See Mitchell, Arthur K., assignor.)
- St. Louis Brass Manufacturing Company. (See Guth, Edwin F., assignor.)
- St. Louis Brass Manufacturing Company. (See Wempner, Charles M., assignor.)
- St. Louis Car Company. (See Seelar, L. F., and Neal, assignors.)
- St. Louis Cash Register Company. (See Miller, Frederick E., assignor.)
- St. Mary College, Society of Mary, Province of Cincinnati. (See Beck, William A., assignor.)
- St. Onge, Amasa, Providence, R. I. Beater for cotton pickers. No. 1,403,975; Jan. 17.
- St. Pierre, Henry, Worcester, Mass. Antiskid device. (Reissue.) No. 15,511; Dec. 26.
- St. Pierre, Octave J., Chicago, Ill. Skate-attaching means. No. 1,405,951; Feb. 7.
- Saives, Léon, Boulogne-sur-Seine, France. Connecting-rod head. No. 1,407,442; Feb. 21.
- Saives, Léon, assignor to L. Renault, Billancourt, Seine, France. Speed-limiting mechanism for vehicles. No. 1,424,523; Aug. 1.
- Sajtar, Frank, Polar, Wis. Animal catcher. No. 1,426,220; Aug. 15.
- Sakane, Seiichi, Kamikyo-Ku, Japan. Expanding the cross sections of spun-silk yarn. No. 1,413,193; Apr. 18.
- Saklatwalla, Byramji D., and A. N. Anderson, Crafton, assignors to Vanadium Corporation of America, Bridgeville, Pa. Production of refractory metal alloys. No. 1,435,742; Nov. 14.
- Sakon, Fred W., Johnstown, Pa. Tie. No. 1,413,433; Apr. 18.
- Saladiner, Joseph M., Bryan, Tex. Cotton chopper. No. 1,411,383; Apr. 4.
- Saladiner, Joseph M., Bryan, Tex. Poison-distributing attachment for boll-weevil exterminators. No. 1,439,980; Dec. 26.
- Salas, Mariano J., Molo, Iloilo, Philippine Islands. Adjustable sole plate for plows. No. 1,414,587; May 2.
- Salata, Andrew, New York, N. Y. Filing machine. No. 1,411,936; Apr. 4.
- Salata, Andrew, New York, N. Y. Tool-operating machine. No. 1,418,205; May 30.
- Salata, George and P., Natrona, Pa. Curtain pole and shade support. No. 1,409,032; Mar. 7.
- Salata, Paul. (See Salata, George and P.)
- Salata, Paul, Natrona, Pa. Roof construction for freight cars. No. 1,417,573; May 30.
- Salathe, Frederick, Chicago, Ill., assignor of one-half to The Western Gas Construction Company, Fort Wayne, Ind. Sludge treatment process and product. No. 1,409,590; Mar. 14.
- Salathe, Frederick, jr., Santa Barbara, Calif. Insulating material. No. 1,428,230; Aug. 29.
- Salazar, Juan and P. A. Picacho, Ariz. Differential mechanism for motor vehicles. No. 1,406,584; Feb. 14.
- Salazar, Perfecto A. (See Salazar, Juan and P. A.)
- Salce, Théophile H. M. (See Falke, J. M. C., and Salce.)
- Sale, Archie P., San Antonio, Tex. Air-brake attachment. No. 1,415,405; May 9.
- Sale, Robert A., Philadelphia, Pa. Dumping cart. No. 1,425,698; Aug. 15.
- Salerno, Ferdinando G., Chicago, Ill. Depositing machine. No. 1,404,548; Jan. 24.
- Salerno, Ferdinando G., Chicago, Ill. Machine for coating cakes. No. 1,413,995; Apr. 25.
- Sales, John F., Outlook, Wash. Machine for cutting seed potatoes. No. 1,410,838; Mar. 28.

Alphabetical list of patentees—Continued.

- Salfsberg, Leroy L., Newark, N. J. Attaching device. No. 1,412,970; Apr. 18.
- Salfsberg, Leroy L., assignor, by mesne assignments, to Ivers-Lee Company, Newark, N. J. Package. No. 1,413,064; Apr. 18.
- Salfsberg, Leroy L., assignor to Ivers-Lee Company, Newark, N. J. Folding device. No. 1,432,211; Oct. 17.
- Salfsberg, Leroy L., assignor to Ivers-Lee Company, Newark, N. J. Article-feeding mechanism. No. 1,435,743; Nov. 14.
- Salgee, Charles P., Philadelphia, Pa. Fluid engine. No. 1,427,701; Aug. 29.
- Salkeld, William G., et al. (See Tobin, Kenneth J., assignor.)
- Sallada, Clarence E., Huron, S. D. Air moistener. No. 1,425,608; Aug. 15.
- Sallee, Harvey J., Whitehouse, Calif. Internal-combustion engine. No. 1,407,836; Feb. 21.
- Sallmann, Frank, Lyndhurst, N. J. Amusement-park device. No. 1,429,457; Sept. 19.
- Salmon, Harry, and H. Booton, assignors to The Expanded Metal Company, Limited, Westminster, London, England. Machine for expanding sheet metal. No. 1,408,647; Mar. 7.
- Salmon, Thomas D. (See Schwarz, P. E., and Salmon.)
- Salmon, Wilfrid, St. Paul, Minn. Railway-car door. No. 1,415,484; May 9.
- Saloun, Martin, assignor of thirty per cent to C. Stepanek, Milwaukee, Wis. Wrench. No. 1,429,639; Sept. 19.
- Salpeter, Harry. (See Hobberg, Paul O., assignor.)
- Salsbury, Charles. (See Dealy, James L., assignor.)
- Salsbury, Frank W. (See Anderson, O., and Salsbury.)
- Salsgiver, Clyde M., Highland Park, Mich. Valve-spring compressor and holder. No. 1,425,796; Aug. 15.
- Salsich, Neil E., Bethlehem, Pa. Rail joint. No. 1,432,304; Oct. 17.
- Salsich, Neil E., Bethlehem, Pa. Rail joint. No. 1,432,305; Oct. 17.
- Salsman, Robert S. (See Roussel, George, assignor.)
- Salstrom, Axel R., Jersey City, N. J. Razor-blade sharpener. No. 1,425,290; Aug. 8.
- Salter, Dougle M., and S. Robichaux, Saratoga, Tex. Cable clamp. No. 1,423,263; July 18.
- Salter, Norbert. (See Brueck, J., and Salter.)
- Salter, William A., Kansas City, Mo. Multiple-turret-tool holder. No. 1,426,778; Aug. 22.
- Salto, Salvatore, Milan, Italy. Projecting device for beams of light. No. 1,422,307; July 11.
- Salt's Textile & Manufacturing Company. (See Horsfall, Herbert, assignor.)
- Saltzer, Andrew. (See Shenk, A. M., Saltzer, A. and L.)
- Saltzer, Louis. (See Shenk, A. M., Saltzer, A. and L.)
- Saltzman, Joseph, and W. C. Veitz, Chicago, Ill.; said Veitz assignor to said Saltzman. Pressing machine. No. 1,438,556; Dec. 12.
- Saltzman, Mary P. E., Washington, D. C. Fastener. No. 1,411,188; Mar. 28.
- Salvo, Alfred L., Augusta, Ga. Flying toy. No. 1,420,449; June 20.
- Salyards, Elmer S., Rock Island, Ill. Tractor wheel. No. 1,405,804; Feb. 7.
- Salz, James, assignor, by mesne assignments, to Pencil Products Corporation, New York, N. Y. Hard-rubber pencil. No. 1,414,752; May 2.
- Salzmann, Ernst, Solothurn, Switzerland. Inkstand. No. 1,424,216; Aug. 1.
- Samad, Omin, Cincinnati, Ohio. Shock absorber. No. 1,402,967; Jan. 10.
- Samania, Dino, Milan, Italy. Automatic block apparatus for electric tramways and railways. No. 1,424,217; Aug. 1.
- Same, John C., assignor of one-half to E. J. Fitz Gerald, Rochester, N. Y. Plant cutter or harvester. No. 1,437,199; Nov. 28.
- Sammarone, Amato N., Akron, Ohio. Generator and motor support. No. 1,414,900; May 2.
- Samms, Albert V., assignor to Fire Gun Manufacturing Company, Inc., Huntington, N. Y. Valve. No. 1,409,116; Mar. 7.
- Sammons, John J., Amarillo, Tex. Nut lock. No. 1,406,161; Feb. 7.
- Samour, Tegrin M., Boston, Mass. Toy. No. 1,419,690; June 13.
- Sample, John H., Toledo, Ohio. Checker bar. No. 1,426,112; Aug. 15.
- Sampliner, Henry S. (See Anthony, Marcus O., assignor.)
- Sampliner, Samuel S., assignor to The Rich-Sampliner Knitting Mills Company, Cleveland, Ohio. Neck garment. No. 1,405,744; Feb. 7.
- Sampson, Archibald T., assignor to Sampson Access System, Inc., Lynn, Mass. Pipe-cutting apparatus. No. 1,412,220; Apr. 11.
- Sampson Access System, Inc. (See Sampson, Archibald T., assignor.)
- Sainpson, Dwight, assignor to Schwarze Electric Company, Adrian, Mich. Diaphragm-actuating stud for sound producers. No. 1,438,968; Dec. 19.
- Sampson, Leslie G., Brooklyn, N. Y., assignor to Franklin Railway Supply Company. Driving box. No. 1,421,101; June 27.
- Sampson, Lewis D. (See Newell, Frank C., Jr., assignor.)
- Sampson, Lloyd J., Worcester, Mass. Telephone attachment. (Reissue.) No. 15,512; Dec. 26.
- Sampson, Robert W., New York, N. Y. Bottle cap. No. 1,430,685; Oct. 3.
- Sampson, Robert W., Malba, N. Y. Flexible container. No. 1,433,303; Oct. 24.
- Sampson, Robert W., Malba, N. Y. Flexible container. No. 1,433,304; Oct. 24.
- Sampson, Scott M., Oakdale, Calif. Concrete-tile construction. No. 1,415,197; May 9.
- Samter, Samuel M., and C. L. Cobb, San Francisco, Calif. Opera chair. No. 1,411,747; Apr. 4.
- Samuels, Alfred S., Cliftondale, Mass. Fluid-pressure weighing mechanism. No. 1,402,661; Jan. 3.
- Samuels, Alfred S., Saugus, Mass. Holding and weighing mechanism. No. 1,407,224; Feb. 21.
- Samuels, B. F. (See Green, James F., assignor.)
- Samuels, Daniel B., New York, N. Y., assignor of one-fourth to F. B. Bradley, Short Hills, N. J., and three-fourths to Interchangeable Lock Sign Co., Inc. Display device. No. 1,429,458; Sept. 19.
- Samuels, John A., Richmond, England. Kettle. No. 1,407,088; Feb. 21.
- Samuelson, Alexander, assignor to C. J. Root, Terre Haute, Ind. Conveyor for heated glassware. No. 1,414,212; Apr. 25.
- Samuelson, Paul B., Minneapolis, Minn. Fly-trapping window screen. No. 1,411,189; Mar. 28.
- San, Louis J., New York, N. Y. Apparatus for purifying air. No. 1,434,154; Oct. 31.
- Sanberg, Martin B., Middle River, Minn. Automobile side curtain. No. 1,406,499; Feb. 14.
- Sanborn, Arthur H., and J. C. Stangier, deceased, assignors of one-third to J. C. McFarland, Chicago, Ill., B. Stangier, administratrix. Apparatus for sealing. No. 1,413,996; Apr. 25.
- Sanborn, Cora A., Brooklyn, N. Y. Liquid separator. No. 1,424,522; Aug. 1.
- Sanborn, Elmer E., Lynn, Mass. Machine for grading patterns. No. 1,413,065; Apr. 18.
- Sanborn, Eugene L., assignor to Smith Engineering Works, Milwaukee, Wis. Crusher. No. 1,402,255; Jan. 3.
- Sanborn, Frank B., Cambridge, Mass. System for indicating the speed of boats. No. 1,407,172; Feb. 21.
- Sanborn, Morton F., Pleasantville, N. Y. Oscillating rotary pendulum. No. 1,409,242; Mar. 14.
- Sanborn Sectional Weight Co. (See Sanborn, William S., assignor.)
- Sanborn, Stephen H., New Hampton, N. Y. Air-feeding device. No. 1,434,228; Oct. 31.
- Sanborn, William S., assignor to Sanborn Sectional Weight Co., Inc., New York, N. Y. Sash weight. No. 1,424,592; Aug. 1.
- Sandage, Garnet C., et al. (See Legate, William A., assignor.)
- Sandals, Nathan, Jersey City, N. J. Chiropractic sanitary paper container. No. 1,416,882; May 23.
- Sandberg, Bernhard, French Lake, Minn. Tire-chain fastener. No. 1,426,510; Aug. 22.
- Sandberg, Erik S., Skutskar, Sweden. Continuously evaporating liquids and in evaporating apparatus. No. 1,433,040; Oct. 24.
- Sandberg, Olof S., Minneapolis, Minn. Tractor excavator. No. 1,407,486; Feb. 21.
- Sandblom, Gideon E., Gottenberg, Sweden. Rotatory brush or scraper for removing rust, paint, or the like. No. 1,414,305; Apr. 25.
- Sandefur, William M., Durant, Okla. Tool for grinding watch crystals. No. 1,418,975; June 6.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Driving means for phonographs. No. 1,416,306; May 16.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Phonograph drive mechanism. No. 1,417,109; May 23.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Transmitting pictures and the like. No. 1,423,737; July 25.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Sheet-perforating machine. No. 1,423,738; July 25.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Plate holder. No. 1,434,026; Oct. 31.
- Sander, Jacob C., Lynn, assignor to Thomson Spot Welder Company, Boston, Mass. Spot welding. No. 1,416,883; May 23.
- Sander, Willy. (See von Orel, E., and Sander.)
- Sander, Willy, assignor to Firm of Carl Zeiss, Jena, Germany. Stereoscopyograph. No. 1,435,983; Nov. 21.
- Sanderfeld, Martin, Athens, Ill. Demountable tractor rim for hard surfaces. No. 1,426,511; Aug. 22.
- Sanders, Edward, Monroe, Mich. Friction-clutch lever lock. No. 1,405,336; Jan. 31.
- Sanders, Edward H., assignor to Shell Company of California, San Francisco, Calif. Identification coupon book. No. 1,407,443; Feb. 21.
- Sanders, Frank B., administrator. (See Steffel, Charles.)
- Sanders, Ira B., Fort Worth, Tex. Aeroplane. No. 1,409,241; Mar. 14.
- Sanders, James E., Gordon, Ga. Fire screen. No. 1,425,341; Aug. 8.
- Sanders, James E., Chattanooga, Tenn. Thrashing machine. No. 1,428,911; Sept. 12.
- Sanders, John H. (See Sanders, Walter J., assignor.)
- Sanders, Joseph C., assignor to American Foundry & Manufacturing Co., St. Louis, Mo. Roof drain. No. 1,434,254; Oct. 31.
- Sanders, Louis J., Takoma Park, Md. Protector. No. 1,417,414; May 23.

Alphabetical list of patents—Continued.

- Sanders, Thomas H. (See Rand, F. R., and Sanders.)
 Sanders, Walter J., assignor of one-half to J. H. Sanders, Chicago, Ill. Pipe cutter, No. 1,402,968; Jan. 10.
 Sanders, Walter J., assignor of one-half to J. H. Sanders, Chicago, Ill. Pipe cutter, No. 1,428,712; Sept. 12.
 sealing wax, No. 1,428,062; Sept. 5.
 Sanderson, Roy, Kenmore, Ohio. Method of and apparatus for making rubber nipples, No. 1,420,287; June 20.
 Sanderson, Thomas E., Woodbury, N. J. Automobile accessory, No. 1,424,382; Aug. 1.
 Sanderson, William G., Chicago, Ill. Valve seal, No. 1,426,412; Aug. 22.
 Sandford, Claude H., Fayetteville, Ark. Cylinder-polishing tool, No. 1,413,876; Apr. 25.
 Sandholm, Oscar N., assignor to The Never Scratch Auto Washer Company, Denver, Colo. Washing appliance, No. 1,426,606; Aug. 22.
 San Diego Consolidated Gas and Electric Company. (See Watson, William V., assignor.)
 Sandifer, George, Moberly, Mo. Car seal, No. 1,436,200; Nov. 21.
 Sandin, Maurits J. (See Procter, J. H., and Sandin.)
 Sandin, Maurits J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Refillable fuse, No. 1,425,699; Aug. 15.
 Sandlin, Charles, Denison, Tex. Electrically-operated handsaw, buffer, etc. No. 1,424,593; Aug. 1.
 Sandling, Elmer A., Moss Point, Miss. Electric coil box, No. 1,419,691; June 13.
 Sandman, August G., Baltimore, Md. Car truck, No. 1,410,516; Mar. 21.
 Sandman, August G., Baltimore, Md. Hatch cover for refrigerator cars, No. 1,422,139; July 11.
 Sandman, August G., Baltimore, Md. Draft rigging, No. 1,426,221; Aug. 15.
 Sandman, August G., Baltimore, Md. End plate for freight cars, No. 1,426,222; Aug. 15.
 Sandor, John, and J. Toth, Lorain, Ohio. Milk-bottle receptacle, No. 1,415,953; May 16.
 Sandquist, John V., Houston, Tex. Link, No. 1,421,997; July 4.
 Sands, A. B., & Son Co. (See Allan, Percy, assignor.)
 Sands, Charles, Kenyon, Minn. Kettle filter and cover holder, No. 1,410,128; Mar. 21.
 Sands, Edward E., Houston, Tex. Apparatus for building concrete structures, No. 1,435,337; Nov. 14.
 Sands, Walter, Minneapolis, Minn. Hat holder, No. 1,402,800; Jan. 10.
 Sands, Walter, Minneapolis, Minn. Hat holder, No. 1,419,945; June 20.
 Sandstrom, August E., New York, N. Y. Spinning top, No. 1,403,200; Jan. 10.
 Sandt, Arlington N., Red Wing, Minn. Lettering, No. 1,403,449; Jan. 10.
 Sandusky Foundry & Machine Co. (See Farnsworth, Hiland R., assignor.)
 Sandvikens Jernverks Aktiebolag. (See Stenmark, A. O. G., and Hedberg, assignors.)
 Sauer, Arthur E., Butte, Mont. Signaling mechanism, No. 1,438,463; Dec. 12.
 San Fernando Manufacturing Association. (See Morse, Frank W., assignor.)
 Sanford, Andrew J., assignor of A. H. Heisey & Company, Newark, Ohio. Glass-finishing tool, No. 1,436,825; Nov. 28.
 Sanford, Henry, New York, N. Y. Camp bed, No. 1,412,064; Apr. 11.
 Sanford, Hugh W., Knoxville, Tenn. Wheel, No. 1,420,221; June 20.
 Sanford, Hugh W., Knoxville, Tenn. Wheel and axle, No. 1,430,593; Oct. 3.
 Sanford, Hugh W., Knoxville, Tenn. Railway car, No. 1,438,787; Dec. 12.
 Sanford Riley Stoker Co. (See Riley, Robert S., assignor.)
 Sang, Charlie, Castorville, Calif. Transmission mechanism, No. 1,426,677; Aug. 22.
 Sangamo Electric Company. (See White, Otis, assignor.)
 Sanglier, Henry, Paris, France. Electric distributor for Sanitary Beverage Mixer Co. (See Wolters, Theodore A., assignor.)
 Sanitary Dishwashing Machine Company. (See Vaudreuil, John, assignor.)
 Sanitary Equipment Construction Company. (See Humphreys, Charles R., assignor.)
 Sanitary Heating and Ventilating Company. (See Cox, William F., assignor.)
 Sanitas Twin Tooth Brush Corp. (See Field, William S., assignor.)
 Sanitax Brush Company. (See Poppenhusen, H. A., and Hastings, assignors.)
 Sankey, Howard M., Alliance, Ohio. Coal pocket, No. 1,411,190; Mar. 28.
 Sankey, William J., Jr., Hatcheehubbie, Ala. Fire extinguisher for airplanes, No. 1,419,311; June 13.
 Sanna, Anthony R., Chevy Chase, Md. Making ice cream, No. 1,414,213; Apr. 25.
 Sanna, Anthony R., Chevy Chase, Md. Making ice cream, No. 1,414,214; Apr. 25.
 Sanna, Anthony R., Chevy Chase, assignor to G. P. Sacks, Bradley Hills, Md. Clarifying ice cream mix, No. 1,414,215; Apr. 25.
 Sanna, Anthony R., Chevy Chase, assignor to G. P. Sacks, Bradley Hills, Md. Making ice-cream mix, No. 1,415,715; May 9.
 Sanner, John A., Page, W. Va. Trolley pole, No. 1,430,686; Oct. 3.
 Sanner, Thomas S., Hooversville, Pa. Derailing device for aerial tramways, No. 1,409,117; Mar. 7.
 Sanness, Harold B., assignor of one-half to H. M. Madsen, Chicago, Ill. Door-knob fastener, No. 1,436,201; Nov. 21.
 Sanregret, Joseph J. (See Marksberry, E. Z., and Sanregret.)
 Sansbury, Thomas B., Daleville, Ala. Carbon-preventing means for internal-combustion engines, No. 1,409,786; Mar. 14.
 Santana, Luis, Trinidad, Cuba. Cigar maker's knife, No. 1,414,098; Apr. 25.
 Santaniello, Emilio, assignor to Safety Shoe Rest & Shoe Shining Company, Chicago, Ill. Foot rest, No. 1,435,744; Nov. 14.
 Santarelli, Thomas P., Coal Creek, Colo. Coal-mining skid, No. 1,405,337; Jan. 31.
 Santen, William H., Cincinnati, Ohio. Plastic composition, No. 1,402,969; Jan. 10.
 Santori, Frank H., New York, N. Y. Plotting instrument, No. 1,419,645; June 13.
 Santoro, Ralph, Hartford, Conn. Spring wheel, No. 1,434,067; Oct. 31.
 Santschi, Arthur E. (See Griffin, J. T., Timm, and Santschi.)
 Saperstein, Aaron, Brooklyn, N. Y. Surgical instrument, No. 1,416,514; May 16.
 Sapp, Floyd B., Green Mountain, Iowa. Endless track, No. 1,411,302; Apr. 4.
 Sapp, Thomas, London, England. Sign and advertising device, No. 1,425,142; Aug. 8.
 Sappenfield, Charles D., Tulsa, Okla. Carton, No. 1,431,128; Oct. 3.
 Sapper, Charles H. (See Wilson, P. H., and Sapper.)
 Saravia, José G., San Salvador, Salvador. Investment composition, No. 1,407,774; Feb. 28.
 Sarber, Charles A. (See Olson, Emil E., assignor.)
 Sargeant, Arthur C., Agawam, Mass. Doorstop, No. 1,410,349; Mar. 21.
 Sargeant, Sidney B. (See Miner, Eugene S., assignor.)
 Sargent, Allan C., Westford, Mass., assignor to C. G. Sargent's Sons Corporation. Drier, No. 1,432,125; Oct. 17.
 Sargent, Charles E. (See May, Laurence J., assignor.)
 Sargent, Charles E., assignor to Midwest Engine Company, Indianapolis, Ind. Engine, No. 1,437,738; Dec. 5.
 Sargeat, Frederick G., Westford, Mass., assignor to C. G. Sargent's Sons Corporation. Wire-cloth apron for fiber-drying machines and the like, No. 1,438,865; Dec. 12.
 Sargent, Frederick G., Westford, and C. T. Brooks, Lowell, Mass., assignors to C. G. Sargent's Sons Corporation. Wire-cloth apron for driers, No. 1,411,937; Apr. 4.
 Sargent, Frederick L., Burlingame, Calif. Towel dispenser, No. 1,427,420; Aug. 29.
 Sargent, Jay. (See Doyle, Patrick A., assignor.)
 Sargent, John A. (See Rollins, W., Seymour, and Sargent.)
 Sargent & Company. (See Drexler, Joseph, assignor.)
 Sargent & Company. (See Shaw, John H., assignor.)
 Sargent & Company. (See Voight, Henry G., assignor.)
 Sargent and Greenleaf, Inc. (See Diesel, W. F., and Price, assignors.)
 Sargent & Greenleaf, Inc. (See Diesel, W. F., and Weber, assignors.)
 Sargent's, C. G., Sons Corporation. (See Furbush, Frank L., assignor.)
 Sargent's, C. G., Sons Corporation. (See Sargent, Allan C., assignor.)
 Sargent's, C. G., Sons Corporation. (See Sargent, F. G., and Brooks, assignors.)
 Sargent's, C. G., Sons Corporation. (See Sargent, Frederick G., assignor.)
 Saris, Joseph H., Beloit, Wis. Cork-insert machine, No. 1,406,689; Feb. 14.
 Saris, Joseph H., Beloit, Wis. Brake or clutch lining, No. 1,416,979; May 23.
 Sarlabous, Marie. (See Sorel, D., and Sarlabous.)
 Sarlis, Theodore, Sanders, Ky., assignor of forty-nine per cent to T. E. Weldon, Sparta, Ky. Pumping apparatus for cisterns, No. 1,417,415; May 23.
 Sartore, Laurence, assignor of one-half to D. Foglia, Pittsburgh, Pa. Mechanism for preparing skins for stitching, No. 1,435,503; Nov. 14.
 Satchwell, Leonard, Burry Port, Caernarthen, Wales. Manufacture of grid resistances, No. 1,418,834; June 6.
 Sato, Ryuji, and C. Matsui, New York, N. Y. Swimming race, No. 1,424,038; July 25.
 Sato, Ryuji, and C. Matsui, New York, N. Y. Rowing race, No. 1,425,058; Aug. 8.
 Satow, Sadakichi, Sendai, Japan. Manufacturing vegetable proteid substances, No. 1,427,645; Aug. 29.
 Satterlee, Henry S., New York, N. Y. Toilet implement, No. 1,427,357; Sept. 5.
 Sattler, Herman J., Sr., Quakertown, Pa. Let-off, No. 1,418,025; May 30.
 Sauer, Adelbert, Pittsburgh, Pa. Device for effecting the combustion of fuel, No. 1,430,327; Sept. 26.
 Sauer, George A., assignor to Buckeye Iron & Brass Works, Dayton, Ohio. Oil press, No. 1,422,225; July 11.
 Sauerbrey, Wilhelm, Berlin-Treptow, Germany. Governor cock for steam heaters or the like, No. 1,412,138; Apr. 11.

Alphabetical list of patentees—Continued.

- Sauerbering, Douglas L., assignor of one-half to W. W. Abers, Wausau, Wis. Swivel connection. No. 1,436,685; Nov. 28.
- Sauers, Myrl M., Santa Cruz, Calif. Wheel puller. No. 1,416,578; May 16.
- Saulnier, Arsene, Waltham, Mass. Clock for warping machines. No. 1,437,865; Dec. 5.
- Saulnier, Raymond, assignor to Societe Anonyme des Aeroplanes Morane-Saulnier, Puteaux, France. Two-seater monoplane aeroplane. No. 1,433,637; Oct. 31.
- Saunders, Albert F., assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Teapot. No. 1,420,758; June 27.
- Saunders, Clarence, assignor to Piggly Wiggly Corporation, Memphis, Tenn. Lighting system for self-serving stores. No. 1,407,680; Feb. 21.
- Saunders, Clarence, assignor to Piggly Wiggly Corporation, Memphis, Tenn. Self-serving store. No. 1,437,554; Dec. 5.
- Saunders, Griffin A., et al. (See Butler, Israel, assignor.)
- Saunders, Randall W., Brooklyn, N. Y. Attachment plug for oiling systems for internal-combustion engines. No. 1,421,723; July 4.
- Saunders, Randall W., Brooklyn, N. Y. Safety steel strap cushion lock. No. 1,421,726; July 4.
- Saunders, William H., New York, N. Y. Nursing-bottle holder. No. 1,407,681; Feb. 21.
- Saunders, William L., Plainfield, assignor to Ingersoll-Rand Company, Jersey City, N. J. Method of and apparatus for loading. No. 1,416,515; May 16.
- Saur, Henry, Philadelphia, Pa. Abdominal appliance. No. 1,402,418; Jan. 3.
- Saur, Otto N. (See Pitz, A. G., and Saur.)
- Sausage Linking Machine Corporation. (See Hirsch, Otto C. L., assignor.)
- Saussard, Louis, Paris, France. Valveless pump. No. 1,410,129; Mar. 21.
- Sauter, Joseph H., New York, N. Y. Washing machine. No. 1,427,552; Aug. 29.
- Sautter, Michael, Spokane, Wash. Husking mitten. No. 1,423,543; July 25.
- Sauvage, Herbert J. (See Sauvage, Stanley and H. J.)
- Sauvage, Norman J., Flushing, N. Y. Automatic slack adjuster. No. 1,416,980; May 23.
- Sauvage, Stanley and H. J., Chicago, Ill. Forming cooking-oven elements. No. 1,403,642; Jan. 17.
- Sauvage, William H., Flushing, N. Y. Hand brake. No. 1,420,150; June 20.
- Sauvage, William H., Flushing, N. Y. Hand brake. No. 1,420,151; June 20.
- Sauvage, William H., Flushing, assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Slack adjuster. No. 1,411,872; Apr. 4.
- Sauvage, William H., Flushing, assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Slack adjuster. No. 1,414,671; May 2.
- Sauvage, William H., Flushing, assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Slack adjuster. No. 1,420,152; June 20.
- Sauvage, William H., Flushing, assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Slack adjuster. No. 1,429,640; Sept. 19.
- Sauvage, William H., Flushing, assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Slack adjuster. No. 1,431,048; Oct. 3.
- Sauvage, William H., Flushing, assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Slack adjuster. No. 1,435,261; Nov. 14.
- Sauvage, William H., assignor, by mesne assignments, to Atlantic Hand Brake Corporation, Buffalo, N. Y. Electric railway brake. No. 1,438,866; Dec. 12.
- Savage Arms Corporation. (See Nelson, Charles A., assignor.)
- Savage, Arthur W., San Diego, Calif. Toy machine gun. No. 1,419,646; June 13.
- Savage, Edwin H., Cleveland, assignor to The Cleveland Tractor Company, Euclid, Ohio. Track-belt unit. No. 1,403,643; Jan. 17.
- Savage, John C., Ryde, Isle of Wight, England. Aerial craft. No. 1,426,413; Aug. 22.
- Savage, Orville A., Paso Robles, Calif. Support. No. 1,429,778; Sept. 19.
- Savage, Peter M. (See Reid, Alfred J., assignor.)
- Savage, Robert L., San Francisco, Calif. Link for tractor tracks. No. 1,417,693; May 30.
- Savannah, Benjamin. (See Gibson, Fred H., assignor.)
- Savary, André, Paris, France. Change-speed gear. No. 1,423,458; July 18.
- Savary-Carlier, Léonce, Bapaume, France. Apparatus for purifying water for steam boilers and the like. No. 1,413,937; Apr. 25.
- Save-A-Handle Products Co. (See Sturgis, Herbert M., assignor.)
- Saverley, Henry E., London Mills, Ill. Spring hub. No. 1,404,409; Jan. 24.
- Savery, Edwin, assignor to Boesch Lamp Company, San Francisco, Calif. Air moistener. No. 1,430,119; Sept. 26.
- Savino, Camillo, New York, N. Y. Motor. No. 1,420,864; June 27.
- Savoie, Leo L., New Orleans, La. Spring wheel. No. 1,416,516; May 16.
- Savoie, W. Frank. (See Hoyne, Christopher E., assignor.)
- Sawdy, Leo G. (See Dewey, D. D., and Sawdy.)
- Sawicki, Joseph G., Essexville, Mich. Pneumatic tire. No. 1,413,619; Apr. 25.
- Sawicki, Joseph G., Essexville, Mich. Submerged heater for tanks. No. 1,420,759; June 27.
- Sawtell, Albert H., Providence, R. I. Tension device. No. 1,402,894; Jan. 10.
- Sawtell, Albert H., Winthrop, Mass. Tension device. No. 1,437,997; Dec. 5.
- Sawtell, Walter B., London, England. Darning machine. No. 1,427,022; Aug. 22.
- Sawyer, Asa L., East Providence, assignor to Hallam-Rice Co., Providence, R. I. Holder for collars. No. 1,414,216; Apr. 25.
- Sawyer, Charles A., et al. (See Torrey, Charles L., assignor.)
- Sawyer, Charles A., jr., Newton, Mass. Leather-working machine. No. 1,436,114; Nov. 21.
- Sawyer, Clinton H., New York, N. Y. Spar mill. No. 1,414,306; Apr. 25.
- Sawyer, Frederick L. (See Berger, Christian, assignor.)
- Sawyer, Frederick L., New York, assignor of one-half to C. Berger, Brooklyn, N. Y. Pencil. No. 1,406,585; Feb. 14.
- Sawyer, Lyddell, London, England. Process and apparatus for producing cinematographic films. No. 1,402,541; Jan. 3.
- Sawyer, Ralph J., Bethel, Me. Device for advertising, displaying, and demonstrating goods put up in cans, cartons, or otherwise. No. 1,438,335; Dec. 12.
- Sawyer, Ralph U. (See Frothingham, D. D., and Sawyer.)
- Sawyer, Walter H., Jacksonville, Fla. Invalid bed. No. 1,404,482; Jan. 24.
- Sawyer, William D. (See Carrie, James, assignor.)
- Saxe, Albert M., et al. (See Zimmerman, Ralph W., assignor.)
- Saxe, Alexander, New York, N. Y. Toothbrush. No. 1,439,913; Dec. 26.
- Saxe, Alexander, New York, N. Y. Toothbrush. No. 1,439,914; Dec. 26.
- Saxe, Iva C., Chicago, Ill. Roofing construction. No. 1,435,623; Nov. 14.
- Saxon, Herman R., assignor, by mesne assignments, to Industrial Research Corporation, Toledo, Ohio. Carrier for spare rims or wheels. No. 1,412,752; Apr. 11.
- Saxon, Herman R., assignor, by mesne assignments, to Industrial Research Corporation, Toledo, Ohio. Tire carrier for automobiles. No. 1,412,753; Apr. 11.
- Saxon, Herman R., assignor, by mesne assignments, to Electric Auto-Lite Corporation, Toledo, Ohio. Connector. No. 1,426,323; Aug. 15.
- Saxon, Herman R., assignor, by mesne assignments, to Electrical Autolite Corporation, Toledo, Ohio. Lamp. No. 1,433,972; Oct. 31.
- Saxon, Martin, St. Louis, Mo. Airplane. No. 1,433,658; Oct. 31.
- Saxton, Augustus C. (See Menard, H. J., and Saxton.)
- Saxton, Augustus C., assignor to H. R. Manufacturing Company, Chicago, Ill. Lock for controlling levers. No. 1,437,555; Dec. 5.
- Saxton, Thomas G., Boonton, N. J., assignor of one-quarter to P. G. Coleman, New York, N. Y. Wrist pin. No. 1,404,654; Jan. 24.
- Saxton, Thomas G., Boonton, N. J., assignor of one-fourth to P. G. Coleman, Brooklyn, N. Y. Piston. No. 1,410,517; Mar. 21.
- Saxton, Thomas G., assignor to E. M. McKee, Lexington, Ky. Piston packing. No. 1,408,034; Feb. 28.
- Sayer, Cyril E., Purley, England. Condensing system for locomotives. No. 1,426,113; Aug. 15.
- Sayko, Louis, Boise, Idaho. Buckle. No. 1,429,641; Sept. 19.
- Saylor, Clyde M., assignor of one-fourth to W. W. Reed, Donora, Pa. Flush-tank valve. No. 1,435,083; Nov. 7.
- Sayo, Kotaro, San Francisco, Calif. Collapsible and foldable candy basket. No. 1,412,971; Apr. 18.
- Sayre, Gordon B., et al. (See Armstrong, Frank T., assignor.)
- Sayre, Ralph E., Pittsburgh, Pa., assignor to Metals Recovery Company, New York, N. Y. Flotation agent and producing the same. No. 1,415,899; May 16.
- Scaife, Wm. B., & Sons, Company. (See Newman, Martin F., assignor.)
- Scablon, Oscar L., Glenview, Ill. Cutter. No. 1,403,644; Jan. 17.
- Sealco, Joseph, Crowley, La. Auxiliary air feed for explosive engines. No. 1,420,288; June 20.
- Scales, James T. (See Field, Elgab H., assignor.)
- Scambler, Raymond O. (See Penn, Charles F., assignor.)
- Scammacca, Stephen. (See Orr, Robert J., assignor.)
- Scanes, Arthur E. L., Ashton-on-Mersey, and A. W. Clarke, Manchester, England. Gauge for indicating the efficiency of steam condensers. No. 1,406,088; Feb. 7.
- Scanes, Arthur E. L., Ashton-on-Mersey, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited. Elastic-fluid-operated ejector. No. 1,415,406; May 9.
- Scanlan, Jack A., Chicago, Ill. Combination furniture. No. 1,402,542; Jan. 3.
- Scanlan, Jere, Dearborn, and H. Hardner, Detroit, Mich. Rustproofing coating. No. 1,436,729; Nov. 28.
- Scanlon, Hugh J., Warneburg, assignor to American Steel Company, Pittsburgh, Pa. Annealing-pot carriage. No. 1,409,118; Mar. 7.

- Scanlon, Hugh J., Waynesburg, and M. B. Kelly, assignors to American Steel Company, Pittsburgh, Pa. Annealing furnace. No. 1,409,119; Mar. 7.
- Scanlon, Oswald. (See Zilcocki, Giordano, assignor.)
- Scapin, Giuseppe, Abano, Italy. Heating plant for houses and buildings in general. No. 1,428,187; Sept. 5.
- Scarborough, Donald S., St. Louis, Mo., assignor to P. Dours, East St. Louis, Ill. Commutator and battery-charging outfit including the same. No. 1,421,998; July 4.
- Scarborough, John A., et al. (See Swope, John S., assignor.)
- Scarlett, George B., Kennett Square, Pa. Collapsible go-cart. No. 1,409,787; Mar. 14.
- Scartow, Frank E., Racine, Wis. Snap hook and assembling the same. No. 1,406,419; Feb. 14.
- Scarvie, Stanley M., Decorah, Iowa. Self-cleaning rake. No. 1,425,219; Aug. 8.
- Schaaf, John, and W. Tomaskoff, Newark, N. J. Ladder attachment. No. 1,433,236; Oct. 24.
- Schaaf, John B., assignor of one-half to C. Arbogast, Cincinnati, Ohio. Curtain-window light. No. 1,423,685; July 25.
- Schaaf, Oscar G. (See De Haven, G. E., and Schaaf.)
- Schaaff, John T., Washington, D. C. Verifying machine. No. 1,426,223; Aug. 15.
- Schaake, William, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley hanger. No. 1,404,900; Jan. 31.
- Schaake, William, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Wire-supporting structure. No. 1,406,288; Feb. 14.
- Schaake, William, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Pantograph trolley. No. 1,410,960; Mar. 28.
- Schaake, William, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley clamp. No. 1,430,594; Oct. 3.
- Schaake, William, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley pole. No. 1,431,984; Oct. 17.
- Schaake, William, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Pantograph trolley. No. 1,438,612; Dec. 12.
- Schaap, Alexander K., New York, N. Y. Explosive engine of the internal-combustion type. No. 1,408,475; Mar. 7.
- Schabhuettl, Felix. (See Schabhuettl, Joe, assignor.)
- Schabhuettl, Joe, assignor of one-half to F. Schabhuettl, Chicago, Ill. Window scaffold. No. 1,430,687; Oct. 3.
- Schacht, William F., Huntington, Ind. Protective cap. No. 1,410,605; Mar. 28.
- Schacht, William H., Painesdale, Mich. Digging and loading machine. No. 1,431,491; Oct. 10.
- Schachtman, Morris, London, England. Motor direction indicator. No. 1,428,663; Sept. 12.
- Schade, Frederik, Skive, Denmark. Device for rolling up paper and the like. No. 1,426,779; Aug. 22.
- Schade, John, assignor to National Blank Book Company, Holyoke, Mass. Loose-leaf binder. No. 1,402,018; Jan. 3.
- Schade, John, assignor to National Blank Book Company, Holyoke, Mass., having as trustees F. B. Towne, E. S. Towne, J. M. Towne, and F. W. Wilson. Friction clutch for telescoping elements. No. 1,418,329; June 6.
- Schade, John, assignor to National Blank Book Company, Holyoke, Mass. Loose-leaf metal ledger back. No. 1,439,264; Dec. 19.
- Schaele, Leo J., Pittsburgh, Pa. Desuperheater. No. 1,420,344; June 20.
- Schaeidler, John M., Sacramento, Calif. Beating device. No. 1,402,880; Jan. 3.
- Schaeidler, Wilfred J., Brooklyn, N. Y. Tank gauge. No. 1,423,544; July 25.
- Schaefer-De Lude-Wallace Company, et al. (See Schaefer, Frank M., assignor.)
- Schaefer, Frank H., Camden, N. J. By-pass valve. No. 1,417,770; May 30.
- Schaefer, Frank M., assignor of one-half to C. M. Bentley, Chicago, Ill., and one-half to Schaefer-De Lude-Wallace Company. Vegetable-paring machine. No. 1,421,837; July 4.
- Schaefer, Frederic. (See Summerbays, Elmer M., assignor.)
- Schaefer, Frederic, Pittsburgh, Pa. Brake-rod jaw. No. 1,411,873; Apr. 4.
- Schaefer, George, Russell, Kans. Standing-grain thrashing mechanism. No. 1,418,476; June 6.
- Schaefer, Henry H., Weldona, Colo. Dam. No. 1,404,325; Jan. 24.
- Schaefer, Henry H., Weldona, Colo. Gate fastener. No. 1,421,573; July 4.
- Schaefer, John, assignor of one-half to W. Steele, Chicago, Ill. Engine starter. No. 1,428,912; Sept. 12.
- Schaefer, Joseph F., Shaker Heights Village, assignor to The Van Dorn Iron Works, Cleveland, Ohio. Locking mechanism. No. 1,406,289; Feb. 14.
- Schaefer, Thomas H., St. Louis, Mo. Front-wheel drive mechanism. No. 1,420,387; June 20.
- Schaefer, William K., H. G. Greer, and E. S. McCullough, Fairmont, W. Va. Drill. No. 1,403,711; Jan. 17.
- Schaeffer, Don W., Dayton, Ohio. Illuminating mechanism. No. 1,421,838; July 4.
- Schaeffer, Leon, Brooklyn, N. Y. Flying machine. No. 1,431,129; Oct. 3.
- Schaeffer, Millington, assignor to Continental Can Company, Baltimore, Md. Lapped-seam body maker. No. 1,434,229; Oct. 31.
- Schaeffer & Budenberg Mfg. Co. (See Cornelison, Robert W., assignor.)
- Schaefer, Charles, Langenthal, Switzerland. Plant and process for distilling tar. No. 1,415,056; May 9.
- Schaefer, Charles, Langenthal, Switzerland. Apparatus for distilling tar. No. 1,415,057; May 9.
- Schaeetzke, Ferdinand A., Milwaukee, Wis. Game. No. 1,416,068; May 16.
- Schäfer, Béla B., Baden, assignor to Gleichrichter-Aktiengesellschaft Glarus, Switzerland. Polyphase choking coils for rectifiers. No. 1,413,685; Apr. 25.
- Schäfer, John C. F., Mount Pulaski, Ill. Pencil-operated lock for book covers. No. 1,419,411; June 13.
- Schäfer, Max, assignor to Firm Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Device for simultaneously starting a plurality of internal-combustion engines. No. 1,424,185; Aug. 1.
- Schäfer, William J., Santa Cruz, Calif. Direction indicator. No. 1,421,727; July 4.
- Schaff, Van D., Washington, D. C. Dilator. No. 1,413,789; Apr. 25.
- Schaffer, August, Columbus, Ohio. Room ventilator. No. 1,406,089; Feb. 7.
- Schaffer Engineering & Equipment Co. (See Schaffer, John C., assignor.)
- Schaffer, George J., Los Angeles, Calif. Automatic fire-preventive device for moving-picture-projection machines. No. 1,409,120; Mar. 7.
- Schaffer, John C., Tiffin, Ohio, assignor to Schaffer Engineering & Equipment Co., Pittsburgh, Pa. Feeder. No. 1,419,946; June 20.
- Schaffer, John C., Tiffin, Ohio, assignor to Schaffer Engineering & Equipment Co., Pittsburgh, Pa. Hydration apparatus. No. 1,420,153; June 20.
- Schaffer Loom Company, The. (See Clark, J. E., Schaffer, and Clark, assignors.)
- Schaffer, Noah S., Rochester, N. Y. Nozzle. No. 1,439,763; Dec. 26.
- Schaffer, William A. (See Clark, J. E., Schaffer, and Clark.)
- Schaffer, William A., Detroit, Mich. Internal-combustion engine. No. 1,411,384; Apr. 4.
- Schaffer, William J. (See Davis, R. K., and Schaffer.)
- Schaffner, Jacob. (See Bloedow, H., and Schaffner.)
- Schake, Charles F., St. Louis, Mo. Amusement device. No. 1,435,984; Nov. 21.
- Schakel, Jacob D., assignor to Elevator Company of America, Chicago, Ill. Adjustable bearing for elevator machines. No. 1,402,895; Jan. 10.
- Schalk, Albert. (See Sabot, F., and Schalk.)
- Schaller, Elizabeth. (See Schaller, William F., assignor.)
- Schaller, William F., San Francisco, Calif. Baker's oven. No. 1,425,342; Aug. 8.
- Schaller, William F., assignor of one-half to E. Schaller, San Francisco, Calif. Baker's oven. No. 1,428,063; Sept. 5.
- Schamberg, Jay F., and G. W. Raiziss, assignors to Dermatological Research Laboratories, Philadelphia, Pa. Medicinal compound and producing the same. No. 1,417,771; May 30.
- Schamberg, Morris I., New York, N. Y. Projecting lamp. No. 1,411,810; Apr. 4.
- Schanck, Francis R. (See Olberg, Charles R., assignor.)
- Schank, Harry E., assignor to The Piersen Manufacturing Company, Topeka, Kans. Sprocket mounting. No. 1,410,724; Mar. 28.
- Schank, Harry E., assignor to The Piersen Manufacturing Company, Topeka, Kans. Engine mounting. No. 1,410,725; Mar. 28.
- Schaper, Fred J., St. Louis, Mo. Clothesline reel. No. 1,419,589; June 13.
- Schaper, Gustav A., New York, N. Y. Automobile headlight. No. 1,435,504; Nov. 14.
- Schaper, Henry C., assignor to The General Automatic Scale Company, St. Louis, Mo. Weight indicator for scales. No. 1,402,970; Jan. 10.
- Schaper, Henry C., assignor to The General Automatic Scale Company, St. Louis, Mo. Weight indicator for scales. No. 1,423,885; July 25.
- Schärer, Arnold, New York, N. Y. Curling iron. No. 1,421,313; June 27.
- Schärer, Arnold, New York, N. Y. Hair curler. No. 1,429,167; Sept. 12.
- Scharek, Henry, Coatesville, Pa. Flag ornament. No. 1,439,644; Dec. 19.
- Scharf, Frank W., Sioux City, Iowa, assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Automatic telephone system. No. 1,438,557; Dec. 12.
- Scharfenberg, Oswald. (See Herzberg, W., and Scharfenberg.)
- Scharff, Harold C., St. Louis, Mo. Electric-lighting fixture. No. 1,435,421; Nov. 14.
- Scharman, James, Lewisville, Ind. Glove. No. 1,404,655; Jan. 24.
- Scharnhorst, William A. (See Holmgren, G., Scharnhorst, Trask, and Russell.)
- Scharpenberg, Charles C., Bakersfield, Calif. Well pumping apparatus. No. 1,428,300; Sept. 5.
- Scharpenberg, Charles C., and L. G. Gates, Bakersfield, Calif. Hoisting apparatus. No. 1,437,685; Dec. 5.

Alphabetical list of patentees—Continued.

- Schartow, Frank E., assignor to The Midland Company, South Milwaukee, Wis. Nonskid device. No. 1,409,975; Mar. 21.
- Scharwath, John A. and Elizabeth, and C. R. Burkhardt, Teaneck, N. J. Asbestos shingle. No. 1,404,483; Jan. 24.
- Schastey, Otto L., Brooklyn, N. Y. Clothesline support. No. 1,414,217; Apr. 25.
- Schat, Ane P., The Hague, Netherlands. Automatically-braked davit. No. 1,423,739; July 25.
- Schat, Ane P., San Francisco, Calif. Adjustable davit. No. 1,431,688; Oct. 10.
- Schatte, Charles, New York, N. Y. Phonograph stop mechanism. No. 1,415,954; May 16.
- Schatz, Henry J. (See Taylor, A. A., and Schatz.)
- Schatz, Herman W., Norwood, and A. M. Sosa, Cincinnati, assignors to The American Tool Works Company, Cincinnati, Ohio. Drilling machine. No. 1,413,790; Apr. 25.
- Schatzel, Albert F. (See Camp, E., and Schatzel.)
- Schaub, James A., et al. (See Dungan, John E., assignor.)
- Schaudies, Charles E., Waco, Tex. Automobile block. No. 1,403,712; Jan. 17.
- Schauer, Lawrence L., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Indicator of stripped threads. No. 1,416,579; May 16.
- Schauer, Lee A., and E. C. Myers, Pittsburgh, Pa. Surfacing machine for commutators. No. 1,416,981; May 23.
- Schauerte, George W., Alton, assignor, by mesne assignments, to Western Cartridge Company, East Alton, Ill. Base wad. No. 1,438,788; Dec. 12.
- Schauman, Karl O., San Francisco, Calif. Impact-actuated control mechanism for vehicles. No. 1,418,678; June 6.
- Schauman, Karl O., San Francisco, Calif. Bumper. No. 1,436,975; Nov. 28.
- Schauman, Karl O., San Francisco, Calif., assignor to W. H. Avery, Bumper-actuated vehicle control mechanism. (Reissue.) No. 15,467; Oct. 10.
- Schaumburger, Louis, and H. H. Clark, Terre Haute, Ind. Furnace-door pedal. No. 1,429,108; Sept. 12.
- Schavolr, Arnold L., Stamford, Conn. Combination mold. No. 1,407,682; Feb. 21.
- Schavolr, Arnold L., Stamford, Conn. Combination mold. No. 1,409,591; Mar. 14.
- Scheanblum, Grace. (See Scheanblum, Robert and G.)
- Scheanblum, Robert and G., Danbury, Conn. Combined hair form and tie. No. 1,413,359; Apr. 18.
- Scheanblum, Robert and G., Danbury, Conn. Combination hair form and tie. No. 1,413,360; Apr. 18.
- Schecher, Peter F., St. Marys, Kans. Vulcanizer. No. 1,411,225; Mar. 28.
- Schechter, Bernard, assignor to American Car Company, St. Louis, Mo. Car-seat structure. No. 1,412,139; Apr. 11.
- Scheekman, Louis, assignor of one-half to L. Oreck, Duluth, Minn. Canning device. No. 1,429,779; Sept. 19.
- Scheel, William H., Mount Vernon, N. Y. Compound for hardening common rosin and using same. No. 1,428,120; Sept. 5.
- Scheele, Walter T., Hackensack, N. Y., assignor to H. M. Specht, New York, N. Y. Cellulose solution. No. 1,408,035; Feb. 28.
- Scheele, Walter T., Hackensack, N. J., assignor to Government of the United States, represented by the Secretary of the Navy. Pyrotechnic composition. No. 1,423,264; July 18.
- Scheesley, Charles W., Jersey Shore, Pa., assignor to Susquehanna Silk Mills, New York, N. Y. Adjustable tension device. No. 1,437,200; Nov. 28.
- Schoffer, John, Newark, N. J. Stove board. No. 1,427,023; Aug. 22.
- Scheffer, Rindert. (See Fabig, Robert, assignor.)
- Scheib, Georg, Berlin, Germany. Means for injecting liquid or gaseous matter under pressure into meat or the like. No. 1,425,143; Aug. 8.
- Scheib, Otto, Barmen, Germany. Hair curler. No. 1,406,586; Feb. 14.
- Scheib, Walter H. (See Buell, W. C., Jr., and Schieb.)
- Scheibenzuber, Dagabert A., et al. (See Marko, Louis, assignor.)
- Scheid, Adolph, Auburn, Ind. Range-boiler stand. No. 1,418,883; June 6.
- Scheid, Richard, St. Louis, Mo. Muffler cut-out. No. 1,424,776; Aug. 8.
- Scheihing, George, Burlington, Iowa. Hay carrier. No. 1,421,102; June 27.
- Schein, Alexander E., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Resilient flywheel. No. 1,418,330; June 6.
- Schein, August P., assignor of one-half to W. J. McGee, Chicago, Ill. Hose support. No. 1,405,164; Jan. 31.
- Schein, August P., Morton Grove, assignor of one-half to G. Busscher, Jr., Niles Center, Ill. Auxiliary attachment for pneumatic tires. No. 1,435,338; Nov. 14.
- Schelhammer, Herman. (See Kohlmeier, G., Wing, and Schelhammer.)
- Schelhammer, Herman. (See Wing, C. E., and Schelhammer.)
- Schelhammer, Herman, Whitestone Landing, assignor to American Hard Rubber Co., New York, N. Y. Comb-cutting machine. No. 1,423,967; July 25.
- Schelhammer, Herman, Whitestone Landing, assignor to American Hard Rubber Co., New York, N. Y. Comb-cutting machine. No. 1,423,968; July 25.
- Schelhammer, Herman, Whitestone Landing, assignor to American Hard Rubber Co., New York, N. Y. Machine for removing cores from molds. No. 1,432,262; Oct. 17.
- Schell, Walter S., et al. (See Bentz, John A., assignor.)
- Schellberg, Oscar B., New York, N. Y. Medical apparatus for use in proctotherapy. No. 1,425,420; Aug. 8.
- Schellenbach, William L., Cincinnati, and D. Lacy, assignors to The Irwin Auger Bit Company, Wilmington, Ohio. Method of and mechanism for producing auger bits. No. 1,411,191; Mar. 28.
- Schellenberg, Henry. (See Nydegger, O., and Schellenberg.)
- Schelleng, John C., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge-device circuits. No. 1,437,021; Nov. 28.
- Schellens, Christopher A., Marblehead, Mass. Reduction gearing. No. 1,437,913; Dec. 5.
- Schellens, Eugene L., Pointe Claire, Quebec, Canada, assignor to Franklin Railway Supply Company. Driving-box wedge adjustment. No. 1,436,728; Nov. 28.
- Schellentrager, Eugene W., and B. E. Clarkson, Cleveland, assignors to S. D. Wright, Cleveland Heights, Ohio. Storage-battery locomotive. No. 1,413,686; Apr. 25.
- Scheller, John M., assignor to Reliable Auto Signal Company, Milwaukee, Wis. Automobile signal. No. 1,428,260; Sept. 5.
- Schellinger, Lee L., McGraw, N. Y. Running-board guard rail for freight cars. No. 1,411,938; Apr. 4.
- Schelter, John C., Rochester, N. Y., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Last. No. 1,423,740; July 25.
- Scheman, Joseph, and L. Reinhart, Courtland, Minn. Corn husker. No. 1,431,985; Oct. 17.
- Schenck, Charles, assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Pressed-steel wheel structure and making the same. No. 1,404,410; Jan. 24.
- Schenck, Charles, assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Metal wheel. No. 1,404,411; Jan. 24.
- Schenck, Charles, and L. Fine, assignors, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Wheel. No. 1,418,331; June 6.
- Schenck, Pierce D., Dayton, Ohio, assignor to Duriron Company, Inc. Armored container. No. 1,440,109; Dec. 26.
- Schenck, Samuel B. (See Riley, L. G., and Schenck.)
- Schenk, Georg, Nuremberg, assignor to the firm of Möbel-fabrik und Vertriebsgesellschaft m. b. H., Nuremberg, Bavaria, Germany. Producing oak imitation by deep poring upon common wood and upon metal surfaces. No. 1,408,643; Mar. 7.
- Schenk, Michel, assignor, by mesne assignments, to Stein-Hall Manufacturing Company, Chicago, Ill. Article of food. No. 1,411,192; Mar. 28.
- Schenk, Tamis C., Detroit, Mich. Device for clamping timbers together. No. 1,431,186; Oct. 10.
- Schenkel, Moritz, Charlottenburg, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Electric vacuum apparatus. No. 1,410,606; Mar. 28.
- Schenkel, Moritz, Charlottenburg, near Berlin, assignor to Siemens Schuckertwerke G. m. b. H., Berlin, Germany. Transformation of direct current. No. 1,418,477; June 6.
- Schenkel, Moritz, Charlottenburg, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Electric installation. No. 1,433,155; Oct. 24.
- Schenkel, Moritz, and J. Jüst, Charlottenburg, near Berlin, assignors to Siemens-Schuckert-Werke, G. m. b. H., Berlin, Germany. Electric vacuum apparatus. No. 1,422,481; July 11.
- Schentzow, Frederick A., et al. (See Walter, Frederick P., assignor.)
- Schepp, Peter. (See Flack, J., and Schepp.)
- Schepp, Peter S., and J. Flack, La Salle, Ill. Collapsible barrel. No. 1,407,487; Feb. 21.
- Schepperly, Joseph. (See Zenker, F., and Schepperly.)
- Scherer, Albert G., assignor to The Excelsior Steel Furnace Company, Chicago, Ill. Heat-distributing device. No. 1,417,772; May 30.
- Scherer, Hubert. (See Amendt, H., and Scherer.)
- Scherer, Robert, Vienna, Austria, assignor to H. Barna, St. Paul, Minn. Adhesive and coating composition. No. 1,409,472; Mar. 14.
- Scherer, William F., Weston, Wyo. Car wheel. No. 1,411,874; Apr. 4.
- Scherff, Walter A. (See Mueller, Max M., assignor.)
- Scherl nee Sandler, Anna M., widow, et al. (See Scherl, Richard.)
- Scherl, Richard, deceased, by A. M. Scherl, nee Sandler, widow, heiress of one-fourth, and V. Scherl, son, Potsdam, Germany, heir of three-fourths. Transformable vehicle. No. 1,419,769; June 13.
- Scherl, Volkhart, son, et al. (See Scherl, Richard.)
- Scherler, Fritz, and J. Lamche, Berlin, Germany. Hotbed. No. 1,410,036; Mar. 21.

- Scherler, Willy, Schaffhouse, Switzerland. Microrecording film for use in measuring apparatus. No. 1,438,403; Dec. 12.
- Schermack Corporation, The. (See Schermack, Joseph J., assignor.)
- Schermack, Joseph J., assignor to The Schermack Corporation, Detroit, Mich. Stamp-vending machine. No. 1,438,265; Dec. 12.
- Schermmerhorn, Earl W., and R. Woodruff, Schenectady, N. Y. Tool for removing valve springs. No. 1,439,530; Dec. 19.
- Schermmerhorn, George D., Reading, Mich. Folding chair. No. 1,436,202; Nov. 21.
- Schermuly, Augustus W. L., Sutton, England. Device for suspending and releasing ships' boats. No. 1,402,662; Jan. 3.
- Schermuly, Augustus W. L., Sutton, England. Fastening for boxes and other articles. No. 1,406,090; Feb. 7.
- Scherotto, John, West Hoboken, N. J., assignor to American Lithographic Company, New York, N. Y. Display device. No. 1,434,155; Oct. 31.
- Schetzl, Marx P., Oakland, Calif. Transmitting fan. No. 1,429,538; Sept. 19.
- Scheuchzer, Auguste, Renens, Switzerland. Machine for removing weeds from railway roadbeds. No. 1,402,663; Jan. 3.
- Scheuer, Ralph I., Two Rivers, Wis. Type case. No. 1,420,154; June 20.
- Scheuerman, Edward G., et al. (See Storey, William H., assignor.)
- Scheur, Herman, & Sons. (See Regulski, Frank, assignor.)
- Schevitz, Carl, Jacksonville, Fla. Expansible shoe last. No. 1,427,024; Aug. 22.
- Schey, Max, Brooklyn, N. Y. Adjustable broiler. No. 1,409,203; Mar. 14.
- Schey, Max, Brooklyn, N. Y. Heating element. No. 1,422,379; July 11.
- Schick, Gottfried, Tampa, Kans. Feeding mechanism. No. 1,439,843; Dec. 26.
- Schicklering, Alfred, Scarsdale, N. Y. Container for cards, slips, etc. No. 1,437,022; Nov. 28.
- Schidlovsky, Josef. (See Sonniechner, O., and Schidlovsky.)
- Schidrowitz, Philip, assignor to one-half to Catalpo Limited, London, England. Manufacture of caoutchouc and caoutchouc-like products. No. 1,418,976; June 6.
- Schiefele, Oliver S., Conestogo, Ontario, Canada. Method for preventing the undermining of water-washed banks. No. 1,428,808; Sept. 12.
- Schierding, William, Spokane, Wash. Automobile signal. No. 1,406,290; Feb. 14.
- Schierding, William, Spokane, Wash. Spotlight. No. 1,439,448; Dec. 19.
- Schierding, William, assignor to Universal Utilities Manufacturing Company, Spokane, Wash. Vehicle spotlight and signal. No. 1,408,476; Mar. 7.
- Schiff, Henry T., assignor to Vitanola Talking Machine Company, Chicago, Ill. Sound-reproducing machine. No. 1,440,180; Dec. 26.
- Schiff, Ludwig. (See Romeiser, W., and Schiff.)
- Schiff, Sally, Karlsruhe, Germany. Dental cement. No. 1,408,960; Mar. 7.
- Schiffbauer, Joseph, Chicago, Ill. Sectional mold. No. 1,426,512; Aug. 22.
- Schiffmann, Johannes, Ballenstedt, Germany. Making an indestructible black stamp dye for documents. No. 1,421,728; July 4.
- Schill, Emil, and F. Wordich, assignors to Continental Gas Compressing Corporation, New York, N. Y. Process of and apparatus for extracting, liquefying, and separating liquefiable constituents of gases. No. 1,415,058; May 9.
- Schiller, John J., Chicago, Ill. Internal-combustion engine. No. 1,414,307; Apr. 25.
- Schiller, Joseph W., St. Louis, Mo. Cutting attachment for sewing machines. No. 1,409,121; Mar. 7.
- Schiller, Rudolph F., Sun Prairie, Wis. Shoe-string tip. No. 1,421,999; July 4.
- Schiller, Rudolph F., Sun Prairie, Wis. Bathtub. No. 1,436,538; Nov. 21.
- Schilling, August, San Francisco, Calif. Container vent. No. 1,428,399; Sept. 5.
- Schilling, Charles F., Lacombe, Alberta, Canada. Vertical grate. No. 1,436,054; Nov. 21.
- Schilling, Le Roy C. (See Haugh, T. M., Schilling, and Finch.)
- Schilling, Louis F., Salem, Ohio. Collapsible bed. No. 1,419,765; June 13.
- Schimmel, Fridolin, Faribault, Minn. Cutter head for woodworking machines. No. 1,432,792; Oct. 24.
- Schimmel, Wilhelm, Leipzig-Stotteritz, Germany. Mechanical hand. No. 1,409,415; Mar. 14.
- Schindler, Charles, Toledo, Ohio. Amusement device. No. 1,435,665; Nov. 14.
- Schindler, John L., Mount Angel, Oreg. Tire-chain hook. No. 1,420,949; June 27.
- Schink, Charles. (See MacMichael, A., and Schink.)
- Schinkez, Albert. (See Keller, W. H., Maximilian, and Schinkez.)
- Schipper, George A., Aurora, Ind. Irreversible steering gear for Ford cars. No. 1,418,679; June 6.
- Schirmacher, Karl, Hochst-on-the-Main, Germany, assignor to H. A. Metz, New York, N. Y. Manufacture of 9,10-dihalogenanthracene- β -monosulphonic acid. No. 1,422,889; July 18.
- Schirmer, William H., assignor to The W. B. McAllister Company, Cleveland, Ohio. Wheel and making same. No. 1,435,745; Nov. 14.
- Schiske, Rudolf, Vienna, Austria. Kilometer per liter register. No. 1,435,422; Nov. 14.
- Schlacks, William J. (See Rudolph, C. W., and Schlacks.)
- Schlacks, William J., Chicago, Ill. Lubricator heater. No. 1,407,775; Feb. 28.
- Schlacks, William J., Chicago, Ill. Screen for lubricator pumps. No. 1,413,066; Apr. 18.
- Schlafly, Charles A., New Philadelphia, Ohio. Safety friction gear. No. 1,427,025; Aug. 22.
- Schlafly, Julius H., assignor to United Alloy Steel Corporation, Canton, Ohio. Making corrugated cores. No. 1,434,068; Oct. 31.
- Schlafly, Julius H., assignor, by mesne assignments, to United Alloy Steel Corporation, Canton, Ohio. Sheet-cooling machine. No. 1,434,504; Nov. 7.
- Schlagel, Alfred M., Montgomery County, near Dayton, assignor to R. T. Parrish, Dayton, Ohio. Tractor. No. 1,416,127; May 16.
- Schlagel, Alfred M., Montgomery County, near Dayton, assignor to R. T. Parrish, Dayton, Ohio. Hoisting and locking mechanism for plows. No. 1,429,043; Sept. 12.
- Schlauch, Herman, Brooklyn, N. Y. Temperature-indicating system for internal-combustion engines. No. 1,430,688; Oct. 3.
- Schlags, Frederick, Brooklyn, N. Y. Window hinge. No. 1,417,110; May 23.
- Schlamp, Philip M., Henderson, Ky. Automobile dirigible headlight mechanism. No. 1,437,556; Dec. 5.
- Schlarbaum, Wade, Mount Pleasant, Iowa. Mail box. No. 1,404,703; Jan. 24.
- Schlaupitz, Oswald, assignor to The Timken Roller Bearing Company, Canton, Ohio. Press. No. 1,426,607; Aug. 22.
- Schlaupitz, Oswald, assignor to The Timken Roller Bearing Company, Canton, Ohio. Mandrel. No. 1,431,761; Oct. 10.
- Schlaupitz, Oswald, assignor to The Timken Roller Bearing Company, Canton, Ohio. Indicating gauge. No. 1,432,212; Oct. 17.
- Schlaupitz, Oswald, assignor to The Timken Roller Bearing Company, Canton, Ohio. Indicating gauge. No. 1,435,666; Nov. 14.
- Schlecht, Harold G., Bradentown, Fla. Spark plug. No. 1,423,451; Sept. 5.
- Schlecht, Karl, Böblingen, Germany. Making printing blocks. No. 1,412,093; Apr. 11.
- Schlecht, Robert H. E., St. Louis, Mo. Swiveling headlight for automobiles. No. 1,409,122; Mar. 7.
- Schlemm, Robert, Chicago, Ill. Recuperator. No. 1,438,726; Dec. 12.
- Schleicher, Harry M. (See Burkey, H. M., and Schleicher.)
- Schleicher, Henry M. (See Eustis, F. A., Hayward, Schleicher, and Belcher.)
- Schleicher, Henry M. (See Hayward, C. R., and Schleicher.)
- Schleicher, John A., assignor to The Lufkin Rule Company, Saginaw, Mich. Combined friction and spanner wrench. No. 1,422,308; July 11.
- Schleicher, John A., assignor to The Lufkin Rule Company, Saginaw, Mich. Micrometer gauge. No. 1,424,383; Aug. 1.
- Schleier, Charles W., Detroit, Mich. Elevated landing place for aeroplanes. No. 1,433,419; Oct. 24.
- Schleifer, Riccardo, Turin, Italy. Process and machine for combing textile fibers. No. 1,408,780; Mar. 7.
- Schleifer, Riccardo, Milan, Italy. Machine for combing textile fibers. No. 1,425,059; Aug. 8.
- Schleper, Johannes F., Amsterdam, Netherlands. Method of and means for jointing electric-current conductors. No. 1,419,523; June 13.
- Schlesinger, Edgar E., Chicago, Ill., assignor to W. P. Murphy, New York, N. Y. Top-chord construction for gondola cars. No. 1,432,911; Oct. 24.
- Schlesinger, Louis, et al. (See Discher, Grant F., assignor.)
- Schlesinger, Nathan, Brooklyn, N. Y. Cuspidor. No. 1,415,955; May 16.
- Schlesinger, Sigmund, New York, N. Y. Talking machine. No. 1,417,111; May 23.
- Schlesinger, William A., Denver, Colo., assignor to The Radium Company of Colorado, Inc. Extracting values from ores. No. 1,435,180; Nov. 14.
- Schleusner, Henry, Garner, Iowa. Aerofoil. No. 1,430,759; Oct. 3.
- Schley, George B., trustee. (See Bumbaugh, George L., assignor.)
- Schley, Jack A., Dallas, Tex. Meter-box cover. No. 1,430,760; Oct. 3.
- Schley, Thomas E. (See Dickens, C. S., Schley, and Newton.)
- Schleyer, Victor, Anderson, assignor to Midwest Engine Company, Indianapolis, Ind. Sand-protected bearing for deep-well pumps. No. 1,404,698; Jan. 24.

Alphabetical list of patentees—Continued.

- Schleyer, Victor, Anderson, assignor to Midwest Engine Company, Indianapolis, Ind. Deep-well-pump lubrication. No. 1,405,380; Jan. 31.
- Schlieper, John E., Pittsburgh, Pa. Tinning apparatus. No. 1,427,853; Sept. 5.
- Schliepmann, Karl. (See Aegerter, G. W., and Schliepmann.)
- Schlinghof, Frank C., assignor to The Corona Manufacturing Company, Kenton, Ohio. Poultry roost. No. 1,422,624; July 11.
- Schloss, Joseph W., New York, N. Y., assignor to Joseph W. Schloss Co. Making hair curlers. No. 1,439,449; Dec. 19.
- Schloss, Joseph W., Co. (See Schloss, Joseph W., assignors.)
- Schloss, Leon J., Spokane, Wash. Jewelry guard. No. 1,431,689; Oct. 10.
- Schloss, Newton L., New York, N. Y. Locking device and releasing mechanism for door checks. No. 1,430,192; Sept. 26.
- Schlosser, Charles F., Brooklyn, N. Y. Commodity container. No. 1,424,682; Aug. 1.
- Schlosser, Morris, New York, N. Y. Display book. No. 1,421,574; July 4.
- Schloth, Arthur C. and H. E., Lynn, Mass. Toy. No. 1,422,789; July 11.
- Schloth, Arthur C., and H. E., Lynn, assignors to U. J. Bouchard, Boston, Mass. Alarm. No. 1,406,762; Feb. 14.
- Schloth, Herman E. (See Schloth, Arthur C. and H. E.)
- Schlötter, Max, Berlin, Germany. Producing dense and firmly-adhering tin deposits. No. 1,426,678; Aug. 22.
- Schlötter, Max, Berlin, Germany. Apparatus for automatically electroplating metallic sheets by means of a revolving cylinder. No. 1,430,855; Oct. 3.
- Schlottmann, Frederick H., Brooklyn, N. Y. Shoe-polishing device. No. 1,429,642; Sept. 19.
- Schlueter, Max L., Chicago, Ill. Tractor attachment for automobiles. No. 1,411,523; Apr. 4.
- Schlueter, Max L., Chicago, Ill. Tire or tractor belt. No. 1,439,484; Dec. 19.
- Schlueter, Max L., Chicago, Ill. Tire for vehicle wheels. No. 1,439,485; Dec. 19.
- Schluter, William, Jr., assignor to one-third to C. H. Dankworth and one-third to G. W. Dankworth, Bellaire, Ohio. Loading machine. No. 1,415,485; May 9.
- Schlutter, John. (See Morrow, S. W., and Schlutter.)
- Schlutz, Henry, Pittsburgh, Pa. Socket wrench. No. 1,432,263; Oct. 17.
- Schmaller, Ernst, assignor to P. B. Wohlrab, Racine, Wis. Steering-post transmission mechanism. No. 1,426,914; Aug. 22.
- Schmaller, Ernst, assignor to P. B. Wohlrab, Racine, Wis. Steering-post transmission mechanism. No. 1,426,915; Aug. 22.
- Schmand, Charles C., Grays River, Wash. Driving mechanism. No. 1,417,862; May 30.
- Schmehl, Louis J. (See Young, George A., assignor.)
- Schmelzer, Bruno, Jersey City, N. J. Electric fan. No. 1,416,384; May 16.
- Schmerel, Erich A., Leipzig, Germany. Button for removably fixing the suction disk of a set of teeth. No. 1,424,321; Aug. 1.
- Schmick, Henry J., Williamsport, Pa. Cam gearing. No. 1,422,000; July 4.
- Schmick, Henry J., Williamsport, Pa. Toothed gearing. No. 1,425,144; Aug. 8.
- Schmick, Henry J., Williamsport, Pa., assignor to Schmick Screw and Gear Company, Wilmington, Del. Making circumferential grooves. No. 1,434,410; Nov. 7.
- Schmick, Henry J., Williamsport, Pa., assignor to Schmick Screw and Gear Company, Wilmington, Del. Screw jack. No. 1,437,364; Nov. 28.
- Schmick Screw and Gear Company. (See Schmick, Henry J., assignor.)
- Schmicking, Edward H. (See Stromberg, W. E., and Schmicking.)
- Schmid, Albert W., Basel, Switzerland. Weighting or charging silk to be dyed black. No. 1,417,206; May 23.
- Schmid, Carl G. (See Rasmussen, A. C., and Schmid.)
- Schmid, Ernst, Anancy, France. Reciprocating engine. No. 1,413,543; Apr. 18.
- Schmid, Herman. (See Fuegel, G., and Schmid.)
- Schmid, Herman, and G. Fuegel, assignors, by mesne assignments, to Apollo Magneto Corporation, Inc., Brooklyn, N. Y. Circuit controller for internal-combustion engines. No. 1,431,599; Oct. 10.
- Schmid, Louis A., Berne, Switzerland. Watchcase. No. 1,404,656; Jan. 24.
- Schmid Manufacturing Company. (See Seastrom, Wesley E., assignor.)
- Schmid-Roost, Jakob, Oerlikon, near Zurich, Switzerland. Electric-current-transmission device. No. 1,411,939; Apr. 4.
- Schmid, William, Bronson, Mich. Artificial fish bait. No. 1,417,574; May 30.
- Schmid, William, Bronson, Mich. Fishline reel. No. 1,417,633; May 30.
- Schmid, William, Bronson, Mich. Fishline reel. No. 1,421,839; July 4.
- Schmid, William, Kalamazoo, Mich. Milling machine. No. 1,427,761; Aug. 29.
- Schmidding, Wilhelm, a Firm. (See Wachtel, Philipp, assignor.)
- Schmidgall, Carl H., Peoria, Ill. Tool. No. 1,438,931; Dec. 12.
- Schmidlin, Julius, Basel, Switzerland, and W. Brunner, Mainkur, near Frankfort-on-the-Main, Germany. Vat dyestuffs and making same. No. 1,405,446; Feb. 7.
- Schmidlin, Julius, Bergen, near Frankfort-on-the-Main, Germany, assignor to L. Cassella & Co. Gesellschaft mit beschränkter Haftung. Manufacture or production of chlorinated products of toluene and dyestuffs therefrom. No. 1,428,984; Sept. 12.
- Schmidt, Arno, Hayward, Calif. Can-filling machine. No. 1,420,222; June 20.
- Schmidt, B. L., Company. (See Jerome, Horace M., assignor.)
- Schmidt, Benjamin F., and T. D. Heyl, Los Angeles, Calif. Car pusher. No. 1,416,755; May 23.
- Schmidt, Carl H., and O. B. Norgren, assignors to Schmidt-Norgren Co., Chicago, Ill. Lathe. No. 1,409,243; Mar. 14.
- Schmidt, Charles D., Jamaica, N. Y. Antiskid device for vehicle wheels. No. 1,421,103; June 27.
- Schmidt, Charles J., assignor to Justrite Manufacturing Company, Chicago, Ill. Spark-producing mechanism. No. 1,407,225; Feb. 21.
- Schmidt, Edward F., Chicago, Ill. Game. No. 1,421,575; July 4.
- Schmidt, Emil. (See Holler, G. F., and Schmidt.)
- Schmidt, Ernest E., Blanton, Fla. Ink. No. 1,420,289; June 20.
- Schmidt, Felix A., St. Louis, Mo. Hair-dressing device. No. 1,438,141; Dec. 5.
- Schmidt, Frederick W., Philadelphia, Pa. Slide for projecting lanterns. No. 1,406,420; Feb. 14.
- Schmidt, Friedrich P., Suhl, Thuringia, Germany. Blade-sharpener. No. 1,404,326; Jan. 24.
- Schmidt, Godfrey P. (See Healy, E. C., and Schmidt.)
- Schmidt, Godfrey P. (See Wagner, C., jr., and Schmidt.)
- Schmidt, Gustave A., Raines, Tenn., assignor of one-half to F. H. McCann, Washington, D. C. Railway shower-bath car. No. 1,410,607; Mar. 28.
- Schmidt, Hans, Oefendorf, near Hamburg, Germany. Window. No. 1,437,449; Dec. 5.
- Schmidt, Henry A., Phoebus, Va. Fastening device. No. 1,416,756; May 23.
- Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Co. Blower. No. 1,407,889; Feb. 28.
- Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company. Fluid-translating device. (Reissue.) No. 15,315; Mar. 21.
- Schmidt, Henry F., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Co. Thrust bearing. No. 1,414,711; May 2.
- Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company. Lubricating journal bearing. No. 1,416,884; May 23.
- Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circulating pump. No. 1,419,692; June 13.
- Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company. Fluid-translating device. No. 1,421,840; July 4.
- Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-translating device. No. 1,421,841; July 4.
- Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-translating device. No. 1,421,842; July 4.
- Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-translating device. No. 1,421,843; July 4.
- Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-translating device. No. 1,421,844; July 4.
- Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-translating device. No. 1,421,845; July 4.
- Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. Geared turbine. No. 1,423,459; July 18.
- Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. Turbine. No. 1,424,263; Aug. 1.
- Schmidt, Henry F., Pittsburgh, Pa., assignor to The Westinghouse Electric & Manufacturing Company. Packing. No. 1,425,548; Aug. 15.
- Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company. Propeller blower. No. 1,427,859; Sept. 5.
- Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Co. Reduction gearing. No. 1,434,965; Nov. 7.
- Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company. Ejector. No. 1,437,819; Dec. 5.
- Schmidt, Herman C. (See Sheppard, C. C., and Schmidt.)
- Schmidt, Herman C., and C. C. Sheppard, Washington, D. C. Signaling device. No. 1,403,267; Jan. 10.
- Schmidt, Hermann, Stuttgart-Feuerbach, Germany, assignor, by mesne assignments, to The Norma Company of America, New York, N. Y. Ball-bearing cage. No. 1,411,303; Apr. 4.
- Schmidt, Jacob B., Milwaukee, Wis. Box-blank machine. No. 1,426,608; Aug. 22.

Alphabetical list of patentees—Continued.

- Schmidt, Jacob R., Marion, Kans. Vaporizer. No. 1,430,926; Oct. 3.
- Schmidt, John A., assignor of one-half to C. H. Dobson, Marcus, Wash. Trsq. No. 1,434,505; Nov. 7.
- Schmidt, John E., and C. E. McArthur, Chicago, Ill. Rod-straightening machine. No. 1,418,026; May 30.
- Schmidt, Joseph, Milwaukee, Wis. Rim tool. No. 1,436,115; Nov. 21.
- Schmidt, Joseph F. (See Freihofer, C. A., and Schmidt.)
- Schmidt, Karl H., Duisburg, Germany. Pump for inflating the tires of vehicles. No. 1,418,884; June 6.
- Schmidt, Leonard L., T. W. Beuchel, and P. C. Otwell, Belleville, Ill. Signal device for automobiles. No. 1,430,264; Sept. 26.
- Schmidt, Lewis W., Schenectady, N. Y. Window-shade and curtain-pole holder. No. 1,432,571; Oct. 17.
- Schmidt, Louis C., Springfield, Ill. Banana rack and cover. No. 1,414,712; May 2.
- Schmidt, Otto, Tegel, near Berlin, Germany. Weighing scale. No. 1,419,766; June 13.
- Schmidt, Paul, Passaic, N. J. Hat holder. No. 1,416,385; May 16.
- Schmidt, Paul C., New York, N. Y. Sounding toy. No. 1,418,401; June 6.
- Schmidt, Paul C., Sheephead Bay, N. Y. Self-aligning ball bearing. No. 1,439,486; Dec. 19.
- Schmidt, Robert J., Philadelphia, Pa. Heat reflecting and retaining device. No. 1,413,620; Apr. 25.
- Schmidt, Robert W., Chicago, Ill. Producing ornamental articles. No. 1,403,268; Jan. 10.
- Schmidt, Rudolph E., Cincinnati, Ohio. Adjustable metallic air propeller. No. 1,411,644; Apr. 4.
- Schmidt, Walter A., assignor to International Precipitation Company, Los Angeles, Calif. Process and apparatus for collecting suspended material from furnace gases. No. 1,413,877; Apr. 25.
- Schmidt, Walter H., Winona, Minn. Sanitary cone holder. No. 1,435,746; Nov. 14.
- Schmidt, William D., Eau Claire, Wis. Mechanical gear shift. No. 1,411,748; Apr. 4.
- Schmidt, William F., St. Louis, Mo. Keyway-slotting device. No. 1,436,826; Nov. 28.
- Schmidt-Norgren Co. (See Schmidt, C. H., and Norgren, assignors.)
- Schmitt, Emil. (See Hansen, G. and Schmitt.)
- Schmitt, Albert J. (See Magalski, John F., assignor.)
- Schmitt, Charles A., Anaconda, Mont. Window fastener. No. 1,436,780; Nov. 28.
- Schmitt, Eugene, Cincinnati, Ohio. Outgauge. No. 1,423,156; July 18.
- Schmitt, Francis P., assignor to Peerblow Manufacturing Company, Leedsdale, Pa. Burner for liquid hydrocarbon fuel. No. 1,421,031; June 27.
- Schmitt, Frederick F., Philadelphia, Pa. Mattress. No. 1,420,450; June 20.
- Schmitt, John, Portland, Oreg. Device for facilitating emplacement and displacement of flexible tires. No. 1,405,872; Feb. 7.
- Schmitt, John, Portland, Oreg. Automobile cabinet. No. 1,413,136; Apr. 18.
- Schmitt, John A., Columbus, Ohio, assignor to The Universal Milking Machine Company. Pulsator for milking apparatus. No. 1,408,036; Feb. 28.
- Schmitt, John G. (See Behn, A., and Schmitt.)
- Schmitt, Joseph H., Weehawken, N. J. Carburizing compound. No. 1,407,951; Feb. 28.
- Schmitt, Ludwig, Chicago, Ill. Spring motor. No. 1,423,032; July 18.
- Schmitt-Marcel, William, Florence, Italy. Finger-training device. No. 1,423,033; July 18.
- Schmitt, Robert A. (See Rambo, Joseph F., assignor.)
- Schmitz, Ernst, Chicago, Ill. Tin-cutting device. No. 1,402,019; Jan. 3.
- Schnaars, David R., assignor to Hoole Machine & Engraving Works, Brooklyn, N. Y. Automobile lock. No. 1,434,156; Oct. 31.
- Schnabel, Georg, Niederoderwitz, Saxony. Preservation of meat. No. 1,406,513; Feb. 14.
- Schnable, George L., and F. E. Abbott, Berwyn, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Method and apparatus for testing fibrous materials. No. 1,436,323; Nov. 21.
- Schnake, August C., Centralia, Ill. Weather strip. No. 1,403,918; Jan. 17.
- Schnatterly, J. M. (See Ogden, William P., assignor.)
- Schnebly, Henry W., et al. (See Spitz, Samuel, assignor.)
- Schneckenburger, Paul M., Wolcott, Ind. Spring wheel. No. 1,415,716; May 9.
- Schneebeli, Hugo, Courbevoie, France. Silent exhaust box for internal-combustion engines. No. 1,402,896; Jan. 10.
- Schneeweiss, Johann, Berlin-Wannsee, assignor to "Rekord Oeler" Gesellschaft mit beschränkter Haftung, Berlin-Schoeneberg, Germany. Distributor of liquids. No. 1,431,492; Oct. 10.
- Schneidenbach, Emil M., Friedrichshagen, near Berlin, Germany. Driving mechanism for water craft. No. 1,420,579; June 20.
- Schneider, Anthony, Whippany, N. J., assignor to American Cigar Company, New York, N. Y. Removable cover for containers. No. 1,403,571; Jan. 17.
- Schneider, Anthony, Whippany, N. J., assignor to American Cigar Company, New York, N. Y. Removable closure for containers. No. 1,403,572; Jan. 17.
- Schneider, Carl, Nutley, N. J. Automatic valve. No. 1,413,938; Apr. 25.
- Schneider, Charlie F., Enid, Okla. Cattle poke. No. 1,423,362; July 18.
- Schneider, Christian L., Davenport, Iowa. Window-sash weight. No. 1,426,224; Aug. 15.
- Schneider, Clara, et al. (See Zel, F. W., and Gross, assignors.)
- Schneider, Eberhard, deceased, New York, N. Y.; S. Schneider, administratrix. Film cleaning and polishing apparatus. No. 1,406,690; Feb. 14.
- Schneider, Edward J., St. Louis, Mo. Flushing receptacle. No. 1,429,643; Sept. 19.
- Schneider, Eugène, assignor, by mesne assignments, to J. L. Routin, Paris, France. Electrical apparatus for indicating and repeating movements at a distance. No. 1,402,096; Jan. 3.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for assembling piston rods and the like. No. 1,406,229; Feb. 14.
- Schneider, Eugène, assignor to J. L. Routin, Paris, France. Electric apparatus for indicating and repeating movements at a distance. No. 1,406,500; Feb. 14.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Compressed-air recuperator for guns. No. 1,421,576; July 4.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Tractor having four steering driving wheels. No. 1,422,380; July 11.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Sighting and aiming apparatus for field guns, combined with devices for correcting transverse and longitudinal inclinations of the gun carriage. No. 1,424,594; Aug. 1.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Trail-carriage guns mounted on endless tracks for varying the height of the line of fire of the gun. No. 1,429,109; Sept. 12.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for producing hooping effects in metal tubes. No. 1,429,539; Sept. 19.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Two-axled vehicle for transporting heavy gun barrels and in the adaption of guns for the use of such vehicles. No. 1,429,540; Sept. 19.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for reducing the length of recoil in guns. No. 1,435,084; Nov. 7.
- Schneider, Firm of Dr. Ing. V. C. A. (See Friedrich, Waldemar, assignor.)
- Schneider, Herman D., Brunner, Ontario, Canada. Elevating loader. No. 1,429,780; Sept. 19.
- Schneider, Herman E., Spring Valley, N. Y. Expansion device for furniture. No. 1,407,582; Feb. 21.
- Schneider, Hugo, Hastings, N. Y. Toilet-article-filling composition. No. 1,436,203; Nov. 21.
- Schneider, Isidor, New York, N. Y. Portable container. No. 1,437,023; Nov. 28.
- Schneider, Jacques, Solothurn, E. Hurlimann, Zuchwil, and Frederic Billon, Solothurn, Switzerland, assignors to the firm "Scintilla," Solothurn, Switzerland. Electric ignition dynamo. No. 1,411,304; Apr. 4.
- Schneider, Jacques, Solothurn, E. Hurlimann, Zuchwil, and F. Billon, assignors to firm "Scintilla," Solothurn, Switzerland. Magneto-electric ignition machine for internal-combustion engines. No. 1,419,767; June 13.
- Schneider, Jacques, Solothurn, E. Hurlimann, Zuchwil, and F. Billon, assignors to firm Scintilla, Solothurn, Switzerland. Bearing end plate for the ignition apparatus of internal-combustion engines. No. 1,434,316; Oct. 31.
- Schneider, Leopold C., Glenside, Pa. Air gun. No. 1,405,012; Jan. 31.
- Schneider, Leopold C., Glenside, Pa. Pipe-welding machine. No. 1,439,531; Dec. 19.
- Schneider, Louis. (See Tegtmeier, A., and Schneider.)
- Schneider, Max, Bismarckhütte, Germany. Adjustable coupling for rolling mills. No. 1,412,317; Apr. 11.
- Schneider, Stanislaw, administratrix. (See Schneider, Eberhard.)
- Schneider & Cie. (See Schneider, Eugène, assignor.)
- Schneiderman, John, George, Iowa. Fire-alarm attachment. No. 1,425,797; Aug. 15.
- Schneiders, Gottfried, Berlin-Friedenau, Germany, assignor to Aktiengesellschaft "Eos," Glarus, Switzerland. Mineral-oil and carbohydrogen-gas extracting process. No. 1,418,097; May 30.
- Schneiders, Gottfried, Berlin-Friedenau, Germany, assignor to Aktiengesellschaft "Eos," Glarus, Switzerland. Mineral-oil and carbohydrogen-gas extracting process. No. 1,418,098; May 30.
- Schnell, Charles A., Walton, assignor of one-half to J. H. Eberhard and H. Mellor, Butler County, Kans. Grain-door fastener. No. 1,405,013; Jan. 31.
- Schnell, Edward, Bartlesville, Okla. Pumping valve for oil wells. No. 1,405,447; Feb. 7.
- Schnell, Harry F., Irvington, N. J. Tire and rim for vehicles. No. 1,437,154; Nov. 28.
- Schneps, Joseph. (See Mayer, Elmer J., assignor.)
- Schneitzer, Karl Aussig, Bohemia, assignor to E. M. E. J. Bedford, Marden, Kent, England, and R. N. Kay, York, England. Preventing the formation of scale in steam boilers, evaporators, economizers, and the like. No. 1,436,686; Nov. 28.

Alphabetical list of patentees—Continued.

- Schnitker, Adelaide A., Arenzville, Ill. Educational apparatus. No. 1,433,850; Oct. 31.
- Schnoor, Peter J. A., Holstein, assignor of one-half to B. Couch, Sioux City, Iowa. Moistener for hot-air flues for hot-air furnaces. No. 1,408,404; Feb. 28.
- Schnuck, Carl F. (See Bowen, D. R., and Schnuck.)
- Schnug, Louis J. B., San Diego, Calif. Water still. No. 1,429,541; Sept. 19.
- Schnur, Bernard W. (See Winter, Louis, assignor.)
- Schober, Joseph. (See Dumas, Allie W., assignor.)
- Schoberle, Frederick P., Los Angeles, Calif. Inclined-railway apparatus. No. 1,438,266; Dec. 12.
- Schoch, William, Bryn Mawr, Pa. Latch for furnace doors. No. 1,425,904; Aug. 15.
- Schoedel, Wenzel, Comfrey, Minn. Sled knee and spindle hub. No. 1,434,317; Oct. 31.
- Schoeke, Max, Manchester, England. Vehicle wheel. No. 1,436,116; Nov. 21.
- Schoell, Reinhold, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. No. 1,420,760; June 27.
- Schoen, Arthur R., Buffalo, N. Y. Sign fastener or sign nail. No. 1,434,027; Oct. 31.
- Schoen, John L., Chicago, Ill. Piston ring. No. 1,406,763; Feb. 14.
- Schoenberg, Ralph A., (now by judicial change of name R. A. Belmont,) New York, N. Y., assignor to Beaver Machine and Tool Co., Inc., Newark, N. J. Electric switch. No. 1,409,519; Mar. 14.
- Schoenhard, William F., Kansas City, Mo. Automobile. No. 1,428,713; Sept. 12.
- Schoenky, August R., Somerville, assignor to Reece Shoe Machinery Company, Boston, Mass. Sewing machine. No. 1,420,580; June 20.
- Schoenky, August R., Somerville, assignor to Reece Shoe Machinery Company, Boston, Mass. Rounding machine. No. 1,428,261; Sept. 5.
- Schoenky, August R., Somerville, assignor to Reece Shoe Machinery Company, Boston, Mass. Driving and stopping mechanism. No. 1,437,450; Dec. 5.
- Schoenleber, John G. (See Bell, T. H., and Schoenleber.)
- Schoenner, Georg, Nuremberg, Germany. Drawing pen. No. 1,412,491; Apr. 11.
- Schoenthal, Daniel W. (See Bartlett, C. A., and Schoenthal.)
- Schoenwetter, Reinhold D., assignor, by mesne assignments, to The National Manufacturing Company, Baltimore, Md. Cigar-banding machine. No. 1,416,982; May 23.
- Schoenwetter, Reinhold D., assignor, by mesne assignments, to The National Manufacturing Company, Baltimore, Md. Cigar-banding machine. No. 1,416,983; May 23.
- Schoenwetter, Reinhold D., assignor, by mesne assignments, to The National Manufacturing Company, Baltimore, Md. Coating machine. No. 1,416,984; May 23.
- Schoenwetter, Reinhold D., assignor, by mesne assignments, to The National Manufacturing Company, Baltimore, Md. Sheet-feeding machine. No. 1,416,985; May 23.
- Schoettie, Frederick W., Oak Park, assignor of one-half to N. B. Lewis, Chicago, Ill. Water heater. No. 1,403,645; Jan. 17.
- Schofield, Clement L., assignor to Glenfield Mills, Glenfield, Pa. Reversible cushion or buffer mat. No. 1,440,181; Dec. 26.
- Schofield, George L., Frederick, Md. Cooling device for motor-driven vehicles. No. 1,415,122; May 9.
- Schofield, George L., Kansas City, Mo. Auxiliary control for motor vehicles. No. 1,420,290; June 20.
- Schofield, Harold B., Ludington, Mich., assignor, by mesne assignments, to B. A. Linderman, Chicago, Ill. Cooling system for internal-combustion engines. No. 1,404,796; Jan. 31.
- Schofield, John A., Washington, D. C., and C. W. Hall, Stamford, Conn. Handling high explosives. No. 1,402,971; Jan. 10.
- Schofield, John F., et al. (See Kammerer, Mathias and J. M., assignors.)
- Schofield, Lee. (See Stott, V. H., and Schofield.)
- Schofield, Robert, New Bedford, Mass. Warper. No. 1,439,331; Dec. 19.
- Schol, Carl H., Allendorf, Dillkreis, Germany. Press for the manufacture of stones. No. 1,429,459; Sept. 19.
- Scholes, Daniel R., assignor to Aermotor Company, Chicago, Ill. Gear casing. No. 1,427,914; Sept. 5.
- Schofield, Frederick E., Waterford, Conn. Apparatus for aircraft. No. 1,421,846; July 4.
- Schofield, Herbert, Los Angeles, Calif. Building board. No. 1,434,915; Nov. 7.
- Scholin, Axel, Chicago, Ill., assignor to Automatic Wrapping Machine Co. Label-pasting machine. No. 1,417,634; May 30.
- Scholin, Axel R., assignor to Automatic Wrapping Machine Co., Chicago, Ill. Placing wrappers on packages and mechanism for carrying out said process. No. 1,417,946; May 30.
- Scholl, Henry L., Spokane, Wash. Window-sash holder. No. 1,423,034; July 18.
- Scholl, John, and R. Parlow, Belgium, Wis. Beet-topping machine. No. 1,432,912; Oct. 24.
- Scholl, John, and R. Parlow, Belgium, Wis. Beet toppler. No. 1,432,913; Oct. 24.
- Schollhorn, William, Company, The. (See Bernard, William A., assignor.)
- Scholtz, James, and M. Norton, San Francisco, Calif. Automatic vehicle signal. No. 1,433,156; Oct. 24.
- Scholz, Carl, Charleston, W. Va. Mine car. No. 1,428,985; Sept. 12.
- Scholz, John G., and E. Weller, Belgrade, Minn. Sled-runner attachment for motor vehicles. No. 1,425,609; Aug. 15.
- Schön, Ludwig, assignor to Friedr. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Automatic switch. No. 1,405,338; Jan. 31.
- Schön, Ludwig, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Measuring the so-called firing delay for naval guns. No. 1,409,788; Mar. 14.
- Schön, Ludwig, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Electric locomotive. No. 1,418,977; June 6.
- Schön, Ludwig, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Arrangement for exciting continuous current generators. No. 1,420,761; June 27.
- Schön, Ludwig, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Releasing device for overload switches. No. 1,438,789; Dec. 12.
- Schöndeling, Wilhelm, Essen-on-the-Ruhr, Germany. Process of and device for quenching coke in narrow containers. No. 1,424,777; Aug. 8.
- Schoneman, Herman F., Chicago, Ill. Combination tooth-brush. No. 1,420,581; June 20.
- Schöner, Bernhard, and O. Siebert, Dessau Anhalt, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Azo dyes. No. 1,408,405; Feb. 28.
- Schönitzer, Rudolph I., Springfield, Ohio, assignor to Scientific Steel Wool Company, Owensboro, Ky. Apparatus for making metal wool and shavings. No. 1,419,472; June 13.
- Schönitzer, Rudolph I., Springfield, Ohio, assignor to Scientific Steel Wool Company, Owensboro, Ky. Making metal wool and shavings. No. 1,419,473; June 13.
- Schonwald, Leopold, New York, N. Y. Lock protector. No. 1,408,477; Mar. 7.
- Schoonmaker, Frank E., Detroit, Mich. Transmission mechanism. No. 1,431,049; Oct. 3.
- Schoonmaker, Harry M., Lexington, Ky. Chest for motor vehicles. No. 1,404,484; Jan. 24.
- Schoonmaker, James M., Jr., Sewickley, Pa. Apparatus for cooling internal-combustion engines. No. 1,410,726; Mar. 28.
- Schoonmaker, William H., Montclair, N. J. Heating system. No. 1,418,835; June 6.
- Schoonover, Daniel R., Tuxedo Park, N. Y. Tool. No. 1,405,339; Jan. 31.
- Schopke, Charlie, San Francisco, Calif. Nonglaring attachment for headlights. No. 1,421,847; July 4.
- Schopp, Otto, et al. (See Howard, George, assignor.)
- Schoppe, Carl W., Portland, Oreg. Automobile accessory. No. 1,417,416; May 23.
- Schopper, Walter, Frankfort-on-the-Main, Germany. Treatment of sal ammoniac skimmings. No. 1,403,060; Jan. 10.
- Schopper, Walter, assignor to Metallbank und Metallurgische Gesellschaft, Aktiengesellschaft, Frankfort-on-the-Main, Germany. Ore leaching. No. 1,417,947; May 30.
- Schöps, Hermann, Berlin, Germany. Rocking-chair. No. 1,438,667; Dec. 12.
- Schorik, Frank. (See Kantor, C. E., and Schorik.)
- Schorpp, Louis, Philadelphia, assignor of one-half to F. A. Boekemann, Collingsdale, Pa. Collapsible drinking cup. No. 1,426,916; Aug. 22.
- Schorr, Andrew J., Fort Wayne, Ind. Wagon brake. No. 1,438,613; Dec. 12.
- Schorr, Philip N., Lancaster, Ohio. Emergency tire. No. 1,428,452; Sept. 5.
- Schorsch, Ludwig, Biala, assignor to Firm G. Josephy's Erben, Bielitz, Austria. Drawing tube of ring-spinning machines. No. 1,404,165; Jan. 17.
- Schossow, Carl. (See Buckner, Ephraim E., assignor.)
- Schott, Hugo, Chicago, Ill. Metal-bending machine. No. 1,402,801; Jan. 10.
- Schott, Joseph F., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Chain. No. 1,422,790; July 11.
- Schou, Cecil V. (See La Cour, D., and Schou.)
- Schou, Gustav B., assignor of one-half to S. Goldberger, New York, N. Y. Sanding device for traction wheels. No. 1,439,129; Dec. 19.
- Schouten, John C., Kansas City, Mo. Chair. No. 1,419,947; June 20.
- Schrader's, A., Son. (See Myers, Eugene V., assignor.)
- Schrader's, A., Son, Inc. (See Mills, Edward F., assignor.)
- Schrader's, A., Son Incorporated. (See Allen, W. A., and Abbe, assignors.)
- Schrader's, A., Son, Incorporated. (See Hammond, William P., assignor.)
- Schrader's, A., Son, Incorporated. (See Henemier, Robert H., assignor.)
- Schrader's, A., Son, Incorporated. (See Kraft, Henry P., assignor.)
- Schrader's, A., Son, Incorporated. (See Ware, Archibald J., assignor.)

Alphabetical list of patentees—Continued.

- Schraepfer, Curt, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Mounting for electrodes with cooled metallic heads. No. 1,408,406; Feb. 28.
- Schram, Arthur E., St. Paul, Minn. Air-cleaning device. No. 1,409,592; Mar. 14.
- Schram, Arthur E., St. Paul, Minn. Air-cleaning device. No. 1,409,593; Mar. 14.
- Schrank, Fred J., assignor to The Swinehart Tire & Rubber Company, Akron, Ohio. Tire. No. 1,411,671; Apr. 4.
- Schrank, Fred J., assignor to The Swinehart Tire & Rubber Company, Akron, Ohio. Method and apparatus for making tires. No. 1,411,672; Apr. 4.
- Schreiber, Edward A., assignor to E. H. Gold, Chicago, Ill. Heating apparatus for refrigerator cars. No. 1,404,901; Jan. 31.
- Schreiber, Francis B., Harvey, Ill. Air-cooling shield for motor cycles. No. 1,412,634; Apr. 11.
- Schreiber, John A. (See Eyrich, H. R., and Schreiber.)
- Schreiber, Louis, Holland, Mich. Spring seat. No. 1,423,460; July 18.
- Schreiber, Walter T., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Producing liquid fuels. No. 1,405,805; Feb. 7.
- Schreiber, Walter T., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Producing liquid fuel. No. 1,405,806; Feb. 7.
- Schreiber, Walter T., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Aeroplane motor fuel. No. 1,428,913; Sept. 12.
- Schreier, Eduard, and R. Jenny, Zuchwil, Switzerland. Automatic machine for the manufacture of screws and other piecework. No. 1,412,140; Apr. 11.
- Schreiner, Andrew J., Cleveland, Ohio. Reserve-supply-controlling device for liquid receptacles. No. 1,416,885; May 23.
- Schreiner, Andrew J., Cleveland, Ohio. Reserve-supply-controlling device for liquid receptacles. No. 1,416,886; May 23.
- Schreiner, George A., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y. Die holder for folding machines. No. 1,432,264; Oct. 17.
- Schreiner, Vincent, Toledo, Ohio. Radiator core. No. 1,429,644; Sept. 19.
- Schrem, Albert, Giengen, Germany. Nail puller. No. 1,419,412; June 13.
- Schreyer, Ernest G., Chicago, Ill. Toy. No. 1,423,035; July 18.
- Schreyer, Ernest G., and C. Hewson, Chicago, Ill. Toy. No. 1,408,037; Feb. 28.
- Schriber, George F., Long Beach, Calif. Metal-sheathed pneumatic tire for vehicles. No. 1,422,791; July 11.
- Schrider, Thomas H. (See Hale, Frank H., assignor.)
- Schrivier, O. P., Company, The. (See Happensack, Edward F., assignor.)
- Schröder, Edmund, Berlin, Germany. Electric seam-welding machine. No. 1,427,231; Aug. 29.
- Schröder, Edmund, Berlin, Germany. Electric seam-welding machine. No. 1,438,867; Dec. 12.
- Schröder, Edmund, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Manufacture of flexible metal hose. No. 1,407,001; Feb. 21.
- Schröder, Edmund, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Working electric resistance welding machines operating with continuous current. No. 1,428,262; Sept. 5.
- Schroder, Fred F., assignor to H. G. Saal, Chicago, Ill. Melting apparatus. No. 1,440,244; Dec. 26.
- Schröder, Heinrich, Sheddinghausen, assignor to Landwirtschaftliche Maschinen-Gesellschaft, Hemelingen, near Bremen, Germany. Electromotor with connecting gear. No. 1,428,302; Sept. 5.
- Schröder, Hermann, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Weighing machine provided with a printing apparatus. No. 1,425,421; Aug. 8.
- Schröder, Johann, Bremen, assignor to Landwirtschaftliche Maschinen-Gesellschaft, Hemelingen, near Bremen, Germany. Device for fixing driving engines or electromotors to machines to be driven. No. 1,428,301; Sept. 5.
- Schroder, John, Cincinnati, Ohio. Crank holder for automobiles. No. 1,431,691; Oct. 10.
- Schroder, Joseph. (See Erhardt, E. W., and Schroder.)
- Schroeder, Alfred H., and R. H. Boone, Alton, Ill., assignors, by mesne assignments, to Gillespie Eden Corporation. Friction clutch. No. 1,430,689; Oct. 3.
- Schroeder Brothers Manufacturing Company. (See Schroeder, Hugo F., assignor.)
- Schroeder, Carl P., et al. (See Finney, James J., assignor.)
- Schroeder, Charles S., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Frame construction for industrial trucks. No. 1,411,875; Apr. 4.
- Schroeder, Charles S., New Brighton, N. Y., assignor, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn. Motor truck. No. 1,420,762; June 27.
- Schroeder, Charles S., New York, N. Y., assignor, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn. Controller for electric circuits. No. 1,433,237; Oct. 24.
- Schroeder, Frederick A., Chicago, Ill. Nut-slotting device. No. 1,431,690; Oct. 10.
- Schroeder, Frederick W., London, England. Pin-tumbler lock. No. 1,438,336; Dec. 12.
- Schroeder, Henry A., Chicago, Ill. Hose clamp. No. 1,407,583; Feb. 21.
- Schroeder, Henry A., Chicago, Ill. Hose clamp. No. 1,432,572; Oct. 17.
- Schroeder, Herman D., Los Angeles, Calif. Gas burner. No. 1,428,400; Sept. 5.
- Schroeder, Hugo F., assignor to Schroeder Brothers Manufacturing Company, Torrington, Conn. Making nuts and article made thereby. No. 1,429,645; Sept. 19.
- Schroeder, Karl, Dusseldorf, assignor to Firm Heinrich Lanz, Mannheim, Germany. Rotary cultivator. No. 1,430,595; Oct. 3.
- Schroeder, Oscar C., assignor to Automatic Burner Corporation, Chicago, Ill. Apparatus for feeding and measuring oils, etc. No. 1,410,767; Mar. 28.
- Schroeder, Ralph. (See Johnson, B. P., and Schroeder.)
- Schroeder, William H., East Orange, N. J. Sectional pneumatic tire. No. 1,419,768; June 13.
- Schroeder, Edmund, Brooklyn, N. Y. Ignition apparatus. No. 1,411,587; Apr. 4.
- Schroeter, Albert G., South Chicago, Ill. Pneumatic-tire protector. No. 1,408,832; Mar. 7.
- Schroff, William H., and R. A. Goudie, Chicago, Ill. Oil burner. No. 1,403,573; Jan. 17.
- Schroth, William L., Rochester, Pa. Nursing-bottle holder. No. 1,410,608; Mar. 28.
- Schrum Manufacturing Co. (See Schrum, W. T., and Krantz, assignors.)
- Schrum, Peter N., Lansing, Ill. Cultivator. No. 1,434,028; Oct. 31.
- Schrum, William T., Hammond, Ind., and E. Krantz, assignors to Schrum Manufacturing Co., Chicago, Ill. Shock absorber. No. 1,426,013; Aug. 15.
- Schryer, Paul F. (See Waring, James H., assignor.)
- Schryver, Clinton E., Chicago, Ill. Belt shifter. No. 1,427,702; Aug. 29.
- Schubert, Albert J., and J. L. Berry, Kansas City, Mo. Folding bed. No. 1,432,793; Oct. 24.
- Schubert, Anthony J., Raymond, Kans. Two-speed final-drive gear set for motor vehicles. No. 1,407,226; Feb. 21.
- Schuberth, Louis T., Chicago, Ill. Bottle receptacle. No. 1,409,416; Mar. 14.
- Schuchman, Harry, Little York, Ill. Automobile tire-chain hook. No. 1,421,577; July 4.
- Schuermann, Anton C. (See Mueller, P., and Schuermann.)
- Schuette, August E., Red Bud, Ill. Driving mechanism. No. 1,407,890; Feb. 28.
- Schuette, August E., Red Bud, Ill., assignor to Central Manufacturing Company, St. Louis, Mo. Gearing. No. 1,422,792; July 11.
- Schuette, Johann, Zeesen-Koenigs-Wusterhausen, near Berlin, Germany. Airship. No. 1,416,580; May 16.
- Schuette, Johann, Zeesen-Koenigs-Wusterhausen, near Berlin, Germany. Airship. No. 1,416,581; May 16.
- Schütte, Johann, Zeesen-Koenigs-Wusterhausen, near Berlin, Germany, assignor, by mesne assignments, to American Investigation Corporation, New York, N. Y. Pipe joint. No. 1,420,669; June 27.
- Schuette, Johann, Zeesen-Koenigs-Wusterhausen, near Berlin, Germany, assignor, by mesne assignments, to American Investigation Corporation, New York, N. Y. Pipe joint. No. 1,420,670; June 27.
- Schuette, Johann, Zeesen-Koenigs-Wusterhausen, near Berlin, Germany, assignor, by mesne assignments, to American Investigation Corporation, New York, N. Y. Pipe joint. No. 1,420,671; June 27.
- Schuette, Johann, Zeesen-Koenigs-Wusterhausen, near Berlin, Germany, assignor, by mesne assignments, to American Investigation Corporation, New York, N. Y. Airship. No. 1,420,763; June 27.
- Schuette, Johann, Zeesen-Koenigs-Wusterhausen, near Berlin, Germany, assignor, by mesne assignments, to American Investigation Corporation, New York, N. Y. Airship. No. 1,420,865; June 27.
- Schütte, Johann, Zeesen-Koenigs-Wusterhausen, near Berlin, Germany, assignor, by mesne assignments, to American Investigation Corporation, New York, N. Y. Device for inserting rivets. No. 1,422,381; July 11.
- Schuetz, Frank A. (See Hamm, W. S., and Schuetz.)
- Schuh, Henry F. (See Green, C. A., and Schuh.)
- Schuirmann, Tido R., Chenoa, Ill. Trap. No. 1,406,091; Feb. 7.
- Schulenberg, Frederick H., assignor to The Vapo Stove Company, Lima, Ohio. Hydrocarbon burner. No. 1,411,749; Apr. 4.
- Schuler, Edward, Springfield, Ill. Stage and ladder. No. 1,432,040; Oct. 17.
- Schuler, Francis X., Fort Worth, Tex. Inner lining and reinforcement for pneumatic tires. No. 1,408,644; Mar. 7.
- Schuler, Frank M., Winona, Minn. Drop-placer comb. No. 1,433,745; Oct. 31.
- Schuler, Frank M., Roselle Park, N. Y., assignor to A. E. Duber, Brooklyn, N. Y. Coated tissue paper and method of and means for coating it. No. 1,428,064; Sept. 5.

Alphabetical list of patentees—Continued.

- Schulke, Harry A., Cleveland, Ohio. Sand toy. No. 1,426,014; Aug. 15.
- Schull, Leopold, Vienna, Austria. Press. No. 1,437,024; Nov. 28.
- Schulte, Alfred, Velbert, Germany. Lock. No. 1,439,332; Dec. 19.
- Schulte, George A., Newark, N. J. Caster retainer. No. 1,439,333; Dec. 19.
- Schulte, Louis, Chicago, Ill. Brightening and hardening electrolytically-tinned articles. No. 1,415,198; May 9.
- Schulte, Louis, Chicago, Ill. Electrofinning. No. 1,423,686; July 25.
- Schulte, Walter B., Madison, Wis., assignor to Burgess Battery Company. Dry battery. No. 1,408,140; Feb. 28.
- Schulthes, Carl, Berlin, and B. Mora, Lubeck, Germany. Wind motor. No. 1,430,406; Sept. 26.
- Schultis, Charles F., assignor to United Brass Manufacturing Company, Cleveland, Ohio. Valve attachment for fire plugs. No. 1,402,182; Jan. 3.
- Schultz, Abraham J., Newark, N. J. Expandable attaching means for connecting tubular elements. No. 1,422,227; July 11.
- Schultz, Abraham J., Newark, N. J., assignor to Colonial Stamping Company, Inc. Mounting naps or caps for posts, poles, or rods. No. 1,422,226; July 11.
- Schultz, Adolf J., Kansas City, Mo. Batter pitcher. No. 1,422,382; July 11.
- Schultz, Albert C. F., Jr., Minneapolis, Minn. Internal-combustion engine. No. 1,419,693; June 13.
- Schultz, Albert J., Madison, Wis. Shoe-cleaning composition. No. 1,439,915; Dec. 26.
- Schultz, Albert L., Pittsburgh, Pa. Resilient wheel. No. 1,415,486; May 9.
- Schultz, Alfred, J. R. Tucker, and R. I. Doyle, Baltimore, Md. Metallic packing for pistons. No. 1,413,791; Apr. 25.
- Schultz, Emile J. A., Paris, France. Process and apparatus for determining the position of an inaccessible point. No. 1,428,861; Sept. 12.
- Schultz, Frank F., New York, N. Y. Protector for collar and cuff buttons. No. 1,421,314; June 27.
- Schultz, Frank P., Milwaukee, assignor of one-half to J. A. Endisch, Sheboygan, Wis. Child's vehicle. No. 1,438,267; Dec. 12.
- Schultz, Fred W. (See Schultz, Herman F. C. and F. W.)
- Schultz, Frederick A., Hasbrouck Heights, N. J. Pneumatic-tire-making machine. No. 1,411,588; Apr. 4.
- Schultz, Frederick A., Hasbrouck Heights, N. J. Vehicle tire shoe. No. 1,435,667; Nov. 14.
- Schultz, Henry, Pittsburgh, Pa. Belt fastener. No. 1,414,048; Apr. 25.
- Schultz, Herman F. C. and F. W., Youngstown, Ohio. Fastening device. No. 1,422,482; July 11.
- Schultz, James R. (See Dallmeyer, T. D., Brown, and Schultz.)
- Schultz, John. (See Hnilo, F., and Schultz.)
- Schultz, John, New York, N. Y. Stop motion for knitting machines. No. 1,414,218; Apr. 25.
- Schultz, John, Bridgeport, Conn. Railway tie. No. 1,436,912; Nov. 25.
- Schultz, John M., assignor to J. S. Chennour, Chicago, Ill. Typewriter attachment. No. 1,423,687; July 25.
- Schultz, Joe J., Windsor, N. Dak. Razor-blade holder. No. 1,431,544; Oct. 10.
- Schultz, Max M., Detroit, Mich. Kitchen cabinet. No. 1,429,697; Sept. 19.
- Schultz, Oswald R., and O. Kirsch, New York, N. Y. Method of and apparatus for making multicolor prints. (Reissue.) No. 15,286; Feb. 14.
- Schultz, Rudolph H., Brooklyn, N. Y. Device for cutting ice cream. No. 1,431,692; Oct. 10.
- Schultz, Walter L., Chicago, Ill. Bottle cap. No. 1,438,060; Dec. 5.
- Schultz, William J., assignor to Firth-Sterling Steel Company, McKeesport, Pa. Teeming device. No. 1,403,646; Jan. 17.
- Schultz, Arthur E., Chicago, Ill. Apparatus for turning and cleaning bags. No. 1,437,025; Nov. 28.
- Schulz, Carl F., Brooklyn, N. Y. Carburetor. No. 1,429,257; Sept. 19.
- Schulz, Carl G., and A. J. Croll, assignors to North East Electric Company, Rochester, N. Y. Forming field windings. No. 1,406,092; Feb. 7.
- Schulz, Carl W. (See Haenicke, Arthur, assignor.)
- Schulz, Charles. (See Jones, C. H., and Schulz.)
- Schulz, Charles L., Milwaukee, Wis. Hairpin. No. 1,433,238; Oct. 24.
- Schulz, Clyde E., Fort Dodge, Iowa. Radiator-repair machine. No. 1,405,340; Jan. 31.
- Schulz, Clyde E., assignor to Automotive Radiator Machine Company, Fort Dodge, Iowa. Radiator-repair machine. No. 1,410,410; Mar. 21.
- Schulz, Frank R., St. Louis, Mo. Luting composition. No. 1,437,156; Nov. 28.
- Schulz, Fred, Fruitville, Calif. Hydrocarbon burner. No. 1,415,123; May 9.
- Schulz, Henry L., St. Louis, Mo., assignor to Hall Tobacco Chemical Company, New York, N. Y. Insecticidal fumigator. No. 1,412,065; Apr. 11.
- Schulz, Karl K., Chicago, Ill. Driving mechanism for washing machines. No. 1,402,664; Jan. 3.
- Schulz, M., Company. (See Gustafson, Adolph P., assignor.)
- Schulz, Otto, Chicago, Ill. Truck. No. 1,414,372; May 2.
- Schulz, Otto C., assignor to Bauer & Black, Chicago, Ill. First-aid packet. No. 1,436,406; Nov. 21.
- Schulz, M., Company. (See Gustafson, Adolph P., assignor.)
- Schulz, Willy, assignor to Prometheus, Fabrik-Elektrischer Kock- & Heizapparate, Gesellschaft mit beschränkter Haftung, Frankfurt-on-the-Main, Germany. Resistance unit for electric heaters and regulating resistances. No. 1,413,939; Apr. 25.
- Schulze, Frederick W., Philadelphia, Pa. Deposit and collection receptacle. No. 1,417,773; May 30.
- Schulze, Friedrich, Ottersbeck, Germany. Harvesting machine. No. 1,431,330; Oct. 10.
- Schulze, Herman, New Braunfels, Tex. Soil tiller. No. 1,414,308; Apr. 25.
- Schulze, John F. W. (See Bailey, G. C., Fischer, and Schulze.)
- Schulze, John F. W., New York, N. Y., assignor to The Barrett Company. Fractional condensation. No. 1,413,885; June 6.
- Schulze, John H. F., Jamaica, N. Y. Trowel. No. 1,409,789; Mar. 14.
- Schulze, Louis H., assignor of three-fifths to A. Pohl, Grovedale, via Geelon, Victoria, Australia. Clamp principally for collar adjustments. No. 1,420,451; June 20.
- Schulze, Theodore, Cleveland, Ohio. Recovering caffeine. No. 1,438,558; Dec. 12.
- Schumacher, Amanda J., Columbus, Ohio. Fishing-rod support. No. 1,435,085; Nov. 7.
- Schumacher, Earl E., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Plastic composition. No. 1,422,483; July 11.
- Schumacher, Elmer L., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,421,729; July 4.
- Schumacher, Elmer L., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,428,914; Sept. 12.
- Schumacher, Elmer L., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,433,851; Oct. 31.
- Schumacher, Elmer L., assignor to American Optical Company, Southbridge, Mass. Case. No. 1,438,142; Dec. 5.
- Schumacher, Elmer L., Southbridge, and W. H. Boutelle, Sturbridge, assignors to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,410,274; Mar. 21.
- Schumacher, Elmer L., Southbridge, and W. H. Boutelle, Sturbridge, assignors to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,415,612; May 9.
- Schumacher, Franz A., Evanston, assignor to The Quaker Oats Company, Chicago, Ill. Chicken feeder and scrap container. No. 1,403,079; Jan. 17.
- Schumacher, Henry, Alma, Mo. Controlling device for pet cocks. No. 1,437,156; Nov. 28.
- Schumacher, Henry C., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Tray-feeding mechanism for box-filling machines. No. 1,415,900; May 16.
- Schumacher, Henry J., and F. Rice, Meadville, assignors of one-third to S. D. Peterson, New Castle, Pa. Game device. No. 1,422,383; July 11.
- Schumacher, John, Los Angeles, Calif. Covering for joints of wall board. No. 1,416,888; May 23.
- Schumacher, John, Los Angeles, Calif. Forming plaster board. No. 1,418,027; May 30.
- Schumacher, Paul A. (See Kluge, Albert, assignor.)
- Schumacher, Wilhelm, Osnabruck, Germany. Obtaining granular slag. No. 1,416,069; May 16.
- Schumaker, William, Minnesota Lake, Minn. Hayrack fastener. No. 1,432,914; Oct. 24.
- Schuman, Alexander C., Louisville, Ky. Vehicle signal. No. 1,409,976; Mar. 21.
- Schuman, Frank J., Cleveland Heights, and B. S. Rothwell, Cleveland, assignors to The Interstate Foundry Company, Cleveland, Ohio. Hoisting mechanism. No. 1,408,645; Mar. 7.
- Schumann, Alfred G., Baltimore, Md. Oil or gas burner. No. 1,425,343; Aug. 8.
- Schumann, Alfred G., Baltimore, Md. Oil or gas burner. No. 1,437,201; Nov. 28.
- Schumann, Edgar, Berlin-Wilmersdorf, Germany. Razor strop. No. 1,426,414; Aug. 22.
- Schumann, Gustav C., and G. Steimmig, assignors to Badische Anilin- & Soda-Fabrik, Ludwigshafen-on-the-Rhine, Germany. Manufacture of alcohols. No. 1,410,223; Mar. 21.
- Schümann, Max. (See Mittasch, A., and Schümann.)
- Schürmann, Carl, Dusseldorf, Germany. Multiple-roll supercalender. No. 1,423,969; July 25.
- Schürmann, Carl, Dusseldorf, Germany. Lever-ratchet gear. No. 1,436,407; Nov. 21.
- Schürmann, Carl, Dusseldorf, Germany. Cranking device for internal-combustion engines. No. 1,437,365; Nov. 28.
- Schürmann, Richard, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gun with laterally-adjustable barrel. No. 1,428,611; Sept. 12.

Alphabetical list of patentees—Continued.

- Schürmann, Richard, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Sighting device for armored portable guns. No. 1,430,193; Sept. 26.
- Schurr, Charles H., and E. J. Lees, assignors to The Lees-Bradner Co., Cleveland, Ohio. Thread-milling machine. (Reissue.) No. 15,410; July 11.
- Schurr, Charles H., and E. J. Lees, assignors to The Lees-Bradner Co., Cleveland, Ohio. Thread-milling machine. No. 1,432,626; Oct. 17.
- Schurtz, Ralph E., Alamogordo, N. Mex. Automatic continuous refrigerator. No. 1,414,527; May 2.
- Schury, John. (See Moss, B. L., and Schury.)
- Schuske, Henry F. G., St. Joseph, Mo. Seam-setting tool. No. 1,423,581; July 25.
- Schussler, Joseph, Bethlehem, Pa. Safety revolver holster. No. 1,421,578; July 4.
- Schuster, Charles, Perth Amboy, assignor to Nixon Nitration Works, Nixon, N. J. Compound celluloid product and making same. No. 1,434,157; Oct. 31.
- Schuster, Delbert L., Platteville, Wis. Bull ring. No. 1,413,434; Apr. 18.
- Schuster, Karl R., Brooklyn, N. Y. Monolithic flat slab. No. 1,417,774; May 30.
- Schuster, Karl R., New York, N. Y. Metal bar of curved cross section. No. 1,428,561; Sept. 12.
- Schutt, Duny A., Janesville, Wis., assignor to General Motors Corporation, Detroit, Mich. Disk-adjusting mechanism for agricultural implements. No. 1,417,207; May 23.
- Schutte, Charles C., Indianapolis, Ind. Pneumatic paper control for printing presses. No. 1,429,301; Sept. 19.
- Schüttler, William, assignor to Universal Arch Company, Chicago, Ill. Locomotive arch brick. No. 1,420,764; June 27.
- Schütz, Carl, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Self-discharging car. No. 1,403,713; Jan. 17.
- Schuyler, Montgomery, St. Louis, Mo. Gearing mechanism. No. 1,408,407; Feb. 28.
- Schuyler, Philip L., Scituate, and C. M. Snow, Boston, Mass., assignors to the trustees of the Massachusetts Automobile Club Trust. Automobile elevator. No. 1,424,186; Aug. 1.
- Schuyler, Theodore H., Syracuse, N. Y. Spring wheel. No. 1,433,239; Oct. 24.
- Schuylikh Hosiery Mills, Inc. (See Robinson, Frank W., assignor.)
- Schwab, Charles A. (See Jones, F. E., and Schwab.)
- Schwab, Henry W., Muscatine, Iowa. Flush valve. No. 1,426,841; Aug. 22.
- Schwab, Isaac M., Savannah, Ga. Nose grip. No. 1,412,542; Apr. 11.
- Schwab, John, Chicago, Ill. Tire remover. No. 1,435,624; Nov. 14.
- Schwab, Louis. (See McGuckin, John J., assignor.)
- Schwab, Robert W., Atlanta, Ga. Mattress package. No. 1,430,690; Oct. 3.
- Schwabach, Georg, Charlottenburg, near Berlin, Germany. Rotary apparatus for removing material to be dumped from furnaces. No. 1,427,026; Aug. 22.
- Schwabe, I. (See Kenter, Carl, assignor.)
- Schwagermann, William, Yonkers, N. Y., assignor to Ward Leonard Electric Company. Electric controller. No. 1,438,727; Dec. 12.
- Schwahlen, Josef, Solingen, Germany. Chuck. No. 1,410,080; Mar. 21.
- Schwab, Fred E., Chicago, Ill. Conveying apparatus. No. 1,427,860; Sept. 5.
- Schwalen, John N., New Richmond, Wis. Bag holder. No. 1,415,901; May 16.
- Schwamb, Peter, and P. Eberhardt, Arlington, Mass. Aerofoil. No. 1,428,714; Sept. 12.
- Schwanhauser, Frederick, assignor to R. Wood, New York, N. Y. Mounting. No. 1,438,790; Dec. 12.
- Schwank, James O. (See Madigan, Thomas J., assignor.)
- Schwantes, Julius, assignor to The Palmolive Company, Milwaukee, Wis. Shaving-soap container. No. 1,428,562; Sept. 12.
- Schwantes, Julius A., assignor to Palmolive Company, Milwaukee, Wis. Soap container. No. 1,436,827; Nov. 28.
- Schwarzman, Alexander, assignor to Spencer Kellogg & Sons, Inc., Buffalo, N. Y. Manufacture of varnish oils. No. 1,407,952; Feb. 28.
- Schwarz, Leonard B., New York, N. Y. Soap-dispensing device. No. 1,409,790; Mar. 14.
- Schwartz, Abraham, and J. Wieder, Boston, Mass. Artificial interchangeable tooth. No. 1,426,114; Aug. 15.
- Schwartz, Arnold A., Dunellen, N. J. Sheet-handling machine. No. 1,439,580; Dec. 19.
- Schwartz, Carl, New Rochelle, assignor to Vapor Car Heating Company, Inc., New York, N. Y. Electrical control apparatus. No. 1,422,625; July 11.
- Schwartz, Charles W., Jr., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Drying stockings on forms. No. 1,411,876; Apr. 4.
- Schwartz, Daniel H., Holyoke, assignor to Holyoke Vacuum Sluice Company, Springfield, Mass. Paper-making machine. No. 1,434,318; Oct. 31.
- Schwartz, Edward, assignor to Manhattan Electrical Supply Company, Inc., New York, N. Y. Electric toaster. No. 1,425,344; Aug. 8.
- Schwartz, Emma F., Cleveland, Ohio. Bath-tub. No. 1,432,916; Oct. 24.
- Schwartz, Fannie H., Brooklyn, N. Y. Convertible garment. No. 1,406,764; Feb. 14.
- Schwartz, Harry A., Defiance, Ohio. Casting. No. 1,423,987; Sept. 12.
- Schwartz, Harry A., assignor to Defiance Machine Works, Defiance, Ohio. Automatic chucking machine. No. 1,404,657; Jan. 24.
- Schwartz, Harry A., assignor to The Defiance Machine Works, Defiance, Ohio. Automatic chucking machine. No. 1,404,658; Jan. 24.
- Schwartz, Henry, Jr., assignor of one-half to J. H. Hincke, Denver, Colo. Peeling knife for tires. No. 1,402,097; Jan. 3.
- Schwartz, Hilbert C., Pine River, Minn. Fish-mouth opener and holder. No. 1,433,041; Oct. 24.
- Schwartz, Israel, Danbury, Conn. Wheel-truing gauge and alarm. No. 1,410,224; Mar. 21.
- Schwartz, Jacob, New York, N. Y. Tension adjuster for violin strings. No. 1,432,089; Oct. 17.
- Schwartz, Jacob G., Rockingham Township, Scott County, Iowa. Blotting inkstand. No. 1,405,558; Feb. 7.
- Schwartz, Joseph. (See Hoffman, S., Schwartz, and Holden.)
- Schwartz, Morris A., Los Angeles, Calif. Magnetic distortion motor. No. 1,431,545; Oct. 10.
- Schwartz, Samuel, Albany, N. Y. Collar. No. 1,432,126; Oct. 17.
- Schwartz, Samuel, Albany, N. Y. Collar. No. 1,432,127; Oct. 17.
- Schwartz, York A. F., London, England. Photographic printing process and solutions and material therefor. No. 1,414,309; Apr. 25.
- Schwarz, Adolf. (See Bockmühl, M., and Schwarz.)
- Schwarz, Alfred, Joplin, Mo., assignor to Metals Recovery Company, New York, N. Y. Composition and substance for use in concentration of ores and producing same. No. 1,427,232; Aug. 29.
- Schwarz, Benjamin J., N. Forister, and A. Hirt, Breeze, Ill. Cap visor and lamp support. No. 1,428,453; Sept. 5.
- Schwarz, Elmer H., Glen Rock, N. J., assignor to The Dayton Engineering Laboratories Company, Dayton, Ohio. Starting system. No. 1,405,942; Feb. 7.
- Schwarz, Gotthilf H., Newark, and M. Vintschger, Ridge-wood, assignors to The Pole and Tube Works, Inc., Newark, N. J. Container with removable locking cover. No. 1,423,157; July 18.
- Schwarz, Jacob M. J., Kewanee, Ill. Attachment for protractors. No. 1,408,646; Mar. 7.
- Schwarz, John J., assignor to H. Metz, Maywood, N. J. Engine-overhauling installation. No. 1,439,334; Dec. 19.
- Schwarz, Paul E., and T. D. Salmon, Philadelphia, Pa. Casting machine. No. 1,424,595; Aug. 1.
- Schwarze Electric Company. (See Sampson, Dwight, assignor.)
- Schwarzmann, Wolfgang E., assignor to American Bosch Magneto Company, Springfield, Mass. Magneto for multicylinder engines. No. 1,402,897; Jan. 10.
- Schwarzmann, Wolfgang E., Springfield, Mass., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Starting magneto. No. 1,412,972; Apr. 18.
- Schwarzmann, Wolfgang E., Longmeadow, Mass., assignor to American Bosch Magneto Corporation, New York, N. Y. Timing mechanism. No. 1,418,175; May 30.
- Schwarzmann, Wolfgang E., Longmeadow, assignor to American Bosch Magneto Corporation, Springfield, Mass. Adjustable interrupter cam. No. 1,426,609; Aug. 22.
- Schwarzmann, Wolfgang E., Longmeadow, assignor to American Bosch Magneto Corporation, Springfield, Mass. Spark-adjusting apparatus. No. 1,432,915; Oct. 24.
- Schwarzmann, Wolfgang E., Springfield, Mass., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Electrical condenser for mechanical interrupters. No. 1,439,764; Dec. 26.
- Schwarzmann, Wolfgang E., Long Meadow, and C. H. Alvord, West Springfield, assignors to American Bosch Magneto Corporation, Springfield, Mass. Driving attachment for ignition apparatus. No. 1,414,753; May 2.
- Schweich, Philip. (See Tillman, J. T., and Schweich.)
- Schweiger, John F., Flora, Ind. Farm gate. No. 1,418,332; June 6.
- Schweiger, William F., assignor to Multipost Company, Incorporated, Rochester, N. Y. Stamp-affixing machine. No. 1,426,780; Aug. 22.
- Schweizer, William F., and W. J. Balkwill, assignors to Multipost Company, Incorporated, Rochester, N. Y. Envelope-moistening machine. No. 1,426,781; Aug. 22.
- Schweikert, Christ, and T. W. O'Rourke, Dubuque, Iowa. Spot board for railway surveying. No. 1,438,404; Dec. 12.
- Schweikowski, Leo, Garrett, Pa. Animal hopple. No. 1,439,487; Dec. 19.
- Schweibert, Maximilian C. (See Kraft, H. P., and Schweibert.)
- Schweibert, Maximilian C., West Hoboken, N. J. Attachment for water-bottle stoppers or the like. No. 1,424,740; Aug. 1.
- Schweibert, Maximilian C., New York, N. Y. Diving dress. No. 1,430,194; Sept. 26.

Alphabetical list of patentees—Continued.

- Schweinert, Maximilian C., New York, N. Y. Dust cap. No. 1,436,462; Nov. 21.
- Schweinert, Maximilian C., West Hoboken, N. J. Tire-deflating machine. No. 1,438,464; Dec. 12.
- Schweinert, Maximilian C., New York, N. Y., and H. P. Kraft, Ridgewood, N. J. Pressure gauge. No. 1,406,230; Feb. 14.
- Schweinert, Maximilian C., New York, N. Y., and H. P. Kraft, Ridgewood, N. J. Tire valve and the like. No. 1,415,407; May 9.
- Schweinsberg, George W., Brooklyn, N. Y., assignor to U. S. Electro Galvanizing Company. Cleaning and plating apparatus. No. 1,428,563; Sept. 12.
- Schweinsberg, George W. and M. I. Doyle, Brooklyn, N. Y., assignors to U. S. Electro galvanizing Company. Apparatus for cleaning articles. No. 1,422,309; July 11.
- Schweinsbaut, Max, assignor to M. S. Company, Attleboro, Mass. Key pouch. No. 1,426,782; Aug. 22.
- Schweitzer, Edmund O., Chicago, Ill. Method of and means for breaking electric arcs. No. 1,413,997; Apr. 25.
- Schweitzer, Edmund O., Chicago, Ill. Means for controlling and measuring a current flowing in an alternating-current circuit. No. 1,422,484; July 11.
- Schweitzer, Fred W., Monitor Township, Bay County, Mich. Grader. No. 1,413,687; Apr. 25.
- Schweitzer, Hugo, assignor to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Blue wool dyestuff. No. 1,429,781; Sept. 19.
- Schweitzer, Hugo, assignor to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Reddish-violet monoazo dye for wool. No. 1,429,782; Sept. 19.
- Schweitzer, Wilhelm H., Heidelberg, Germany, assignor to Society Technochemia Aktiengesellschaft, Glarus, Switzerland. Mixed textile goods and making same. No. 1,413,621; Apr. 25.
- Schweiz Gesellschaft für Tüllindustrie A.-G. (See Cavigelli, Emanuel, assignor.)
- Schweizer, Theodor, Zurich, Switzerland. Conservation of vegetable materials. No. 1,404,549; Jan. 24.
- Schweizerische Industrie Gesellschaft. (See Knecht, Heinrich, assignor.)
- Schwemlein, William. (See Leland, H. R., and Schwemlein.)
- Schwenneke, Hans, assignor to Globe Paper Box Company, Chicago, Ill. Cover for boxes. No. 1,416,420; May 16.
- Schweuzfeier, Charles W. (See Press, R. W., and Schweuzfeier.)
- Schwerin, Frank H. (See Kopf, J. C., and Schwerin.)
- Schwerin, Frank H., West View Borough, Pa., assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Ratchet mechanism. No. 1,402,898; Jan. 10.
- Schweyer, Paul, Munich, Germany. Contrivance for theaters and cinematographs. No. 1,435,339; Nov. 14.
- Schwieger, Hedwig, née Kipp, Hanover, Germany, assignor to H. Geering, Basel, Switzerland. Closure for glasses for preserved fruits and the like. No. 1,427,128; Aug. 29.
- Schwiesow, William F., Ripon, Wis. Gasoline tank. No. 1,434,846; Nov. 7.
- Schwimmer, Henry W., assignor to Y. Moore, trustee, Indianapolis, Ind. Warming table. No. 1,433,157; Oct. 24.
- Schwimmer, Oscar, Los Angeles, Calif., assignor, by mesne assignments, to Patent Products Company. Auto signal. No. 1,439,130; Dec. 19.
- Schwinger, Albert G., Niagara Falls, N. Y. Conveyer. No. 1,427,553; Aug. 29.
- Schwinn, Frank W., Chicago, Ill. Motor-cycle stand. No. 1,435,625; Nov. 14.
- Schwitzer, Louis, assignor to Automotive Parts Company, Indianapolis, Ind. Bearing construction for fans. No. 1,423,265; July 18.
- Schwoletzky, Gustav, Eplingen-on-the-Neckar, Germany. Portable fire extinguisher. No. 1,415,717; May 9.
- Schworm, Edward F., Beach City, Ohio. Rotary toothbrush. No. 1,420,388; June 20.
- Schworm, Melville F., Massillon, Ohio. Oxyacetylene welding torch. No. 1,432,418; Oct. 17.
- Scientific Cooking Devices, Limited. (See Jones, John G., assignor.)
- Scientific Materials Company. (See Fisher, Edwin H., assignor.)
- Scientific Steel Wool Company. (See Schonitzer, Rudolph I., assignor.)
- Scintilla. (See Billow, Frederic, assignor.)
- Scintilla. (See Bohli, Jacques, assignor.)
- Scintilla. (See Bohli, Jakob, assignor.)
- Scintilla. (See Schneider, J., Hurlimann, and Billon, assignors.)
- Scintilla. (See Steiner, G., and Bohli, assignors.)
- Scintilla. (See Steiner, Gottlieb, assignor.)
- Scotfield, Edgar, New York, assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y. Double-seal friction cap. No. 1,426,917; Aug. 22.
- Scotfield, Lillian E. (See Fay, Nellie L., assignor.)
- Scotfield, Newton J., New Orleans, La. Adjustable skirt hanger. No. 1,410,411; Mar. 21.
- Scoggan, Richard R., Jeffersonville, Ind., assignor to Kentucky Switch & Signal Co. Inc., St. Matthews, Ky. Automatic track switch. No. 1,418,978; June 6.
- Scoggins, Howard E. (See Nichols, J. S., Billingsly, and Scoggins.)
- Scoby, John R., Okmulgee, Okla. Glass cutter. No. 1,411,524; Apr. 4.
- Scoby, John R., Okmulgee, Okla. Glass-cylinder cutter. No. 1,420,867; June 27.
- Scoby, John R., Okmulgee, Okla. Sheet-glass-drawing apparatus and drawing glass. No. 1,420,868; June 27.
- Scoby, John R., Okmulgee, Okla. Glass cutter. No. 1,435,985; Nov. 21.
- Solding Locks Hairpin Company. (See Smith, Homer P., assignor.)
- Scopel, Louis, Bend, Ill. Automobile draft device. No. 1,410,412; Mar. 21.
- Score, F. Dalrymple. (See Powell, George F., assignor.)
- Scoria Products Company, The. (See Pierce, Harry H., assignor.)
- Scottford, Baron H., Atlantic City, N. J. Doll support. No. 1,407,584; Feb. 21.
- Scottford, Baron H., Atlantic City, N. J. Dress. No. 1,435,878; Nov. 14.
- Scottford, Baron H., Atlantic City, N. J. Paper doll. No. 1,438,337; Dec. 12.
- Scottford, Louis K., Chicago, Ill., assignor to Cheney Talking Machine Company. Winding mechanism for spring motors. No. 1,436,687; Nov. 28.
- Scottford, Louis K., assignor to The Oro-Tone Company, Chicago, Ill. Sound box. No. 1,439,916; Dec. 26.
- Scott, Archibald, assignor to Western Metallurgical Company, Humboldt, Ariz. Recovery of metallic values from fume precipitate. No. 1,435,505; Nov. 14.
- Scott, Archibald, assignor to Western Metallurgical Company, Humboldt, Ariz. Recovery of metallic values from fume precipitate. No. 1,435,506; Nov. 14.
- Scott, Arthur E. L., Spartansburg, Ind. Gasoline strainer. No. 1,436,294; Nov. 21.
- Scott, Cecil W., Cricklewood, England. Button-mold machine and dies. No. 1,407,089; Feb. 21.
- Scott, Celestine G. (See Scott, Wilmer G., assignor.)
- Scott, Charles E., Sausalito, Calif. Tread for rails and wheels. No. 1,420,389; June 20.
- Scott, Charles E., Derry, N. H. Interlocking joint for containers. No. 1,439,450; Dec. 19.
- Scott, Charles S. (See Gettle, H. R., and Scott.)
- Scott, Dewey A., Buffalo, N. Y. Hot-air furnace. No. 1,417,775; May 30.
- Scott, Douglas W., assignor of one-half to T. Crow, Newcastle-upon-Tyne, England. Direction indicator. No. 1,406,501; Feb. 14.
- Scott, E. Harrison, assignor to Johnson Automobile Sheet Metal Works, Richmond, Ind. Roll for sheet-metal-forming machines. No. 1,415,408; May 9.
- Scott, Earl B., East Orange, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Drying and tray for use in the performance thereof. No. 1,409,473; Mar. 14.
- Scott, Ephraim J. (See Bowen, E. F., and Scott.)
- Scott, Ferd T., Mount Vernon, Ind. Radiator for automobiles. No. 1,409,791; Mar. 14.
- Scott, Field, et al. (See Crippen, Henry M., assignor.)
- Scott, Fletcher J., Hurdland, Mo. Sawing machine. No. 1,424,039; July 25.
- Scott, Frank O., assignor to Southworth Company, Mitineague, Mass. Indicating device for paper-cutting machines. No. 1,402,543; Jan. 3.
- Scott, Frank O., assignor to Southworth Company, Mitineague, Mass. Paper machine. No. 1,420,869; June 27.
- Scott, Frank V., Elizabeth City, N. C. Bean harvester. No. 1,429,168; Sept. 12.
- Scott, George H., Bridgewater, Mass. Jar holder. No. 1,430,328; Sept. 26.
- Scott, George L., Shawnee, Okla. Brake head and shoe. No. 1,433,240; Oct. 24.
- Scott, George S. (See Gustafson, Oscar R., assignor.)
- Scott, George W., Cleveland, Ohio. Bracket support for vehicle tops. No. 1,431,331; Oct. 10.
- Scott, George W., Cleveland, Ohio. Side-curtain support. No. 1,431,332; Oct. 10.
- Scott, George W., Cleveland, Ohio. Side curtain for motor vehicles. No. 1,436,781; Nov. 28.
- Scott, Glenn A., Marion, Ind. Workbench. No. 1,408,408; Feb. 28.
- Scott, Harry T., Los Angeles, Calif. Carburetor-adjusting device. No. 1,440,245; Dec. 26.
- Scott, Harvey L. (See Thomas, G. W., and Scott.)
- Scott, Howard R. and L. E., San Jose, Calif. Treating nut kernels to produce food ingredients. No. 1,416,128; May 16.
- Scott, James G., Washington, D. C. Burner for gas stoves. No. 1,416,887; May 23.
- Scott, James L., Melbourne, Victoria, Australia. Note sheet for player pianos and the like. No. 1,413,293; Apr. 18.
- Scott, Jay M., Winnipeg, Manitoba, Canada. Automatic derailment-brake attachment. No. 1,412,141; Apr. 11.
- Scott, John A., Spokane, Wash. Bread cutter. No. 1,405,720; Feb. 7.
- Scott, John E., Philadelphia, Pa. Saltcellar. No. 1,424,040; July 25.
- Scott, John J., et al. (See Carmichael, Andrew R., assignor.)
- Scott, John L., London, England. Plate heater. No. 1,429,783; Sept. 19.

Alphabetical list of patentees—Continued.

- Scott, John R., Minneapolis, Minn. Uncoupling device for car couplings. No. 1,408,833; Mar. 7.
- Scott, John T. (See Wolfe, John W., assignor.)
- Scott, John W. (See Stowers, E. S., and Scott.)
- Scott, Joseph H., assignor of one-half to E. W. Gale, San Francisco, and one-half to M. G. Burnham, San Mateo, Calif. Serpentine thrower. No. 1,436,408; Nov. 21.
- Scott, Lewis L., St. Louis, Mo. Oil-burning heating system. No. 1,427,700; Aug. 29.
- Scott, Lewis L., St. Louis, Mo. Pump. No. 1,432,041; Oct. 17.
- Scott, Lillian E. (See Scott, Howard R. and L. E.)
- Scott, Lyle G., Two Harbors, Minn. Street indicator for street cars. No. 1,404,720; Jan. 24.
- Scott, Michael J. (See Des Roches, Hilton H., assignor.)
- Scott Paper Company. (See Calvert, Frank W., assignor.)
- Scott Paper Company. (See Parsons, Philip D., assignor.)
- Scott, Philip N., Westwood, assignor to W. C. Hall, Haworth, and J. De Turk, Hackensack, N. J. Distributor for ignition systems. No. 1,418,836; June 6.
- Scott, Quincy D., Columbus, Ohio. Garment supporter. No. 1,402,899; Jan. 10.
- Scott, Raymond S., Denver, Colo. Process and apparatus for confection making. No. 1,414,528; May 2.
- Scott, Robert D., and J. G. Cadwell, Roslyn, Wash. Running gear for mining cars. No. 1,403,872; Jan. 17.
- Scott, Robert W., Spokane, Wash. Saw handle. No. 1,420,291; June 20.
- Scott, Russell M., et al. (See Belair, Joseph A. P., assignor.)
- Scott, W. J., Co. (See Gribbie, Anna B., assignor.)
- Scott, Walter, Middlesbrough, England. Elastic device for insertion in driving mechanism. No. 1,413,940; Apr. 25.
- Scott, Walter E., Providence, R. I., assignor to The C. F. Fox Company. Foldable box. No. 1,409,417; Mar. 14.
- Scott, Walter W., Amsterdam, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Sewing machine. No. 1,435,945; Nov. 21.
- Scott, William B. (See Reed, Ira M., assignor.)
- Scott, William H., Goffs, Kans. Wrench. No. 1,417,354; May 23.
- Scott, William H., Norwich, England. Motor-control system. No. 1,434,158; Oct. 31.
- Scott, William M., Tredegar Township, Chester County, Pa. Switching apparatus. No. 1,407,953; Feb. 28.
- Scott, William M., Tredegar Township, Chester County, Pa. Circuit-breaker-tripping structure. No. 1,425,700; Aug. 15.
- Scott, William R., Houston, Tex. Ballast car. No. 1,418,402; June 6.
- Scott, William S., Maplewood, N. J. Method of and apparatus for obtaining power from the surf. No. 1,418,680; June 6.
- Scott, Wilmer G., Vancouver, British Columbia, Canada, assignor to C. G. Scott, Washington, D. C. Means employed in accounting systems. No. 1,405,559; Feb. 7.
- Scott, Winifred, Montreal, Quebec, Canada. Bed covering. No. 1,403,873; Jan. 17.
- Scott, Wirt S., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Heating apparatus. No. 1,430,596; Oct. 3.
- Scott & Williams, Inc. (See Hall, A. Z., and Hughes, assignors.)
- Scott and Williams, Inc. (See Katzeumoyer, Harry E., assignor.)
- Scott & Williams, Incorporated. (See Page, Albert E., assignor.)
- Scotti, Alfredo, Whittier, Calif. Traction device. No. 1,416,237; May 16.
- Scotti, Alfredo, Whittier, Calif. Wheel for tractors. No. 1,420,870; June 27.
- Scotti, Alfredo, Whittier, Calif. Traction wheel. No. 1,420,871; June 27.
- Scotts Shipbuilding & Engineering Company Limited. (See Anderson, John P., assignor.)
- Scotts Shipbuilding & Engineering Company. (See Hutchinson, David R., assignor.)
- Sculer, Daniel, Maisonneuve, Quebec, Canada. Punch and die for angle smith work. No. 1,428,344; Sept. 5.
- Scoville, Herbert F., and M. Ladd, Sleepy Eye, Minn. Photographic-printing device. No. 1,431,432; Oct. 10.
- Scovill, Cora L., Washington, Pa. Patch poster. No. 1,414,588; May 2.
- Scovill Manufacturing Company. (See Bagg, Hollis B., assignor.)
- Scovill Manufacturing Company. (See Bennett, Morris H., assignor.)
- Scovill Manufacturing Company. (See Hogaboom, George B., assignor.)
- Scovill Manufacturing Company. (See Kendall, William G., assignor.)
- Scovill Manufacturing Company. (See Simons, Ernest D., assignor.)
- Scovill Manufacturing Company. (See Summey, David L., assignor.)
- Scoville, Frank F., Schenectady, N. Y. Lateral-motion appliance for locomotive driving boxes. No. 1,430,329; Sept. 26.
- Scoville, Frank F., Schenectady, N. Y. Vestibule for locomotives and tenders. No. 1,431,693; Oct. 10.
- Scoville, Royal L., New York, N. Y., assignor to Edwin M. Rosenbluth, Wallingford, Pa. Low-water indicator for automobiles. No. 1,435,986; Nov. 21.
- Scovronek, Abraham, Jersey City, N. J. Collar-button substitute for shirts. No. 1,409,244; Mar. 14.
- Scozzafava, Fred G., Gouverneur, N. Y. Piston ring. No. 1,419,413; June 13.
- Scranton, Henry O., Jeanerette, La. Cane harvester. No. 1,406,093; Feb. 7.
- Scranton, Henry O., Jeanerette, La. Loading mechanism. No. 1,437,914; Dec. 5.
- Scranton, Israel, Decatur, Ill. Lubricating device. No. 1,432,496; Oct. 17.
- Scribner, Edward W., and R. Depee, Donthat, Okla., assignors of one-half to N. W. Wyatt and O. Baker, Miami, Okla. Valve. No. 1,405,631; Feb. 7.
- Scriven, Edward O., assignor to Western Electric Company, Incorporated, New York, N. Y. Oscillation generator. No. 1,418,739; June 6.
- Scrivner, Jefferson D., San Benito, Tex. Ant trap. No. 1,424,596; Aug. 1.
- Scroggins, Allen C., Jr., et al. (See Dungan, John E., assignor.)
- Scruby, Basil, and G. K. Harkness, Harlow, England. Mold for use in building walls, making blocks, slabs, tiles or briquettes. No. 1,423,461; July 18.
- Scruby, George E., assignor of one-fourth to R. E. Taylor and one-fourth to T. M. McClellan, Birmingham, Ala. Paper-board box. No. 1,425,549; Aug. 15.
- Scruggs, John H., Knoxville, Tenn. Fountain pump. No. 1,412,973; Apr. 18.
- Sudder, Clifton R., St. Louis, Mo., and J. B. Huguelet, assignors to Samuel Cupples Envelope Company, Chicago, Ill. Machine for affixing fastenings to envelopes. No. 1,405,014; Jan. 31.
- Sudder, Clifton R., St. Louis, Mo., and J. B. Huguelet, assignors to Samuel Cupples Envelope Company, Chicago, Ill. Disk-feeding mechanism for eyeletting machines. No. 1,405,015; Jan. 31.
- Suelli Steel Company. (See Doerr, Harry E., assignor.)
- Scully, John J. (See Hinckley, F. C., and Scully.)
- Scully, John J. (See Lyle, M. E., Scully, and Capps.)
- Scully, John J., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Stop mechanism. No. 1,430,569; Oct. 3.
- Scully, Jones & Co. (See Foote, Robert E., assignor.)
- Scully, Thomas E., Los Angeles, Calif. Garment turner. No. 1,439,844; Dec. 26.
- Scusa, Lino, Phoenix, N. Y. Toilet-paper winder. No. 1,421,730; July 4.
- Sea, Philip N., Chicago, Ill. Phonograph-record album. No. 1,424,778; Aug. 8.
- Sea, Philip N., Chicago, Ill. Phonograph-record album. No. 1,424,779; Aug. 8.
- Sea, Frederick W., Chicago, Ill. Phonograph-record album. No. 1,424,780; Aug. 8.
- Sea, Frederick W., Chicago, Ill. Phonograph-record album. No. 1,424,781; Aug. 8.
- Seaber, Harry G., Alton, Ill. Supporting and driving apparatus. No. 1,411,305; Apr. 4.
- Seaboldt, Bert, and H. C. Brown, New York, assignor to M. B. Garibaldi, Brooklyn, N. Y. Power-actuated pneumatic tool. No. 1,402,727; Jan. 3.
- Seabright Co. (See Wright, Wilbur L., assignor.)
- Seabrook, Bagster R., Winnipeg, Manitoba, Canada, assignor, by mesne assignments, to Lyradion Manufacturing Company, Mishawaka, Ind. Talking machine. No. 1,436,689; Nov. 28.
- Seagrave, Frederic S., Detroit, Mich. Propelling attachment for children's vehicles. No. 1,419,312; June 13.
- Seagrave, Frederic S., Detroit, Mich. Propelling attachment for children's vehicles. No. 1,425,220; Aug. 8.
- Seaholm, Ernest W., assignor to General Motors Corporation, Detroit, Mich. Gear-shift lever lock. No. 1,406,231; Feb. 14.
- Seaholm, Ernest W., assignor to General Motors Corporation, Detroit, Mich. Driving mechanism for motor vehicles. No. 1,434,355; Nov. 7.
- Seaholm, Ernest W., assignor to General Motors Corporation, Detroit, Mich. Transmission mechanism for vehicles. No. 1,436,913; Nov. 28.
- Seaholm, Ernest W., and G. E. Parker, assignors to General Motors Corporation, Detroit, Mich. Tire carrier. No. 1,419,080; June 6.
- Seaholm, John P., assignor, by mesne assignments, to Moline Plow Company, Incorporated, Moline, Ill. Latch lever. No. 1,428,988; Sept. 12.
- Seaholm, Nils, Mount Vernon, N. Y. Sound modulator for phonographs. No. 1,414,673; May 2.
- Seale, George E. D. (See Bassett, J., Seale, and Davidson.)
- Scaled Case Company. (See Shellenberger, John, assignor.)
- Sealey, David A., East Orange, N. J. Phonographic sound box. No. 1,416,582; May 16.
- Seabright Co. (See Wright, Wilbur L., assignor.)
- Seal-Tite Piston Ring Co. (See Sipe, Martin E., assignor.)
- Sealy, Edward W., assignor of four-sixteenths to M. Davis, Rochester, N. Y. Vehicle wheel. No. 1,432,265; Oct. 17.
- Seaman, Charles, Brooklyn, N. Y. Needle guard for sewing machines. No. 1,410,413; Mar. 21.

Alphabetical list of patentees—Continued.

- Seaman, David J., Saginaw, Mich. Store fixture. No. 1,410,225; Mar. 21.
- Seaman, Edwin M., Mineola, N. Y. Fixture-stud adapter. No. 1,439,713; Dec. 26.
- Seaman, George Q., Jr., Brooklyn, N. Y. Change-speed gearing. No. 1,419,770; June 13.
- Seaman, Halleck W. (See Crawford, Albert G., assignor.)
- Seaman, Robert G., Summerhill, Pa. Water arch. No. 1,412,713; Apr. 11.
- Seamless Rubber Company, The. (See Caldwell, James R., assignor.)
- Seamless Rubber Company. (See De Gowin, Isaac, assignor.)
- Seamless Rubber Company, The. (See Patterson, John W., assignor.)
- Seamweld Equipment Company. (See Fay, Joseph W., assignor.)
- Searle, Frederick B., Denver, Colo. Steam drifter mechanism for locomotives. No. 1,423,688; July 25.
- Searle, Robert M., Rochester, N. Y. Copyholder. No. 1,438,268; Dec. 12.
- Searle, Robert M., Rochester, N. Y., assignor to The U. G. I. Contracting Company, Philadelphia, Pa. Vertical-retort gas-making apparatus. No. 1,427,078; Aug. 22.
- Searles, Aaron M. (See Gats, John B., assignor.)
- Searles, Daniel, trustee. (See Pilliod, Charles J., assignor.)
- Searles, Raymond R., assignor to The Fafnir Bearing Company, New Britain, Conn. Ball bearing. No. 1,418,886; June 6.
- Searles, Wayne S., assignor to Universal Optical Corporation, Providence, R. I. Eyeglass mounting. No. 1,433,481; Oct. 24.
- Searles, Wayne S., assignor to Universal Optical Corporation, Providence, R. I. Ophthalmic mounting. No. 1,433,482; Oct. 24.
- Searles, Wayne S., assignor to Universal Optical Corporation, Providence, R. I. Ophthalmic mounting. No. 1,437,557; Dec. 5.
- Searles, Wayne S., assignor to Universal Optical Corporation, Providence, R. I. Eyeglass frame. No. 1,438,338; Dec. 12.
- Sears, George V., Bingham Canyon, Utah. Rim tool. No. 1,417,863; May 30.
- Sears, George V., Salt Lake City, Utah. Rim clamp. No. 1,417,864; May 30.
- Sears, John D., et al., trustees. (See Estabrooke, W. L., and Jackson, assignors.)
- Sears, Roebuck and Co. (See Bohmker, John C., assignor.)
- Sears, Roebuck and Company. (See Drake, James C., assignor.)
- Sears, Roebuck and Co. (See Dun Lany, William P., assignor.)
- Sears, Roebuck and Co. (See Hoffman, Rudolph, assignor.)
- Sears, Roebuck and Company. (See Shee, Parke B., assignor.)
- Sears, Willard T. (See Cullen, J. K., and Sears.)
- Sears, Willard T., Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Drill-table mechanism. No. 1,414,487; May 2.
- Sears, Willard T., Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Supporting and clamping mechanism for drilling machines. No. 1,418,837; June 6.
- Sears, Willard T., Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Car-wheel-boring machine. No. 1,422,140; July 11.
- Sears, Willard T., Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Shaping machine. No. 1,423,266; July 18.
- Sears, Willard T., Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Interlocking mechanism for drilling machines. No. 1,434,752; Nov. 7.
- Sears, Willard T., Montclair, and G. W. Jager, Bloomfield, N. J., assignors to Niles-Bement-Pond Company, New York, N. Y. Drilling machine. No. 1,414,486; May 2.
- Sears, William A., Leon, Kans. Type box. No. 1,418,206; May 30.
- Sease, Virgil B., Parlin, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulose-acetate solvent composition. No. 1,434,634; Nov. 7.
- Seastrom, Wesley E., assignor to Schmid Manufacturing Company, Dubuque, Iowa. Handle joint. No. 1,421,848; July 4.
- Seaton, Benjamin C., Nashville, Tenn. Pneumatic tire. No. 1,412,492; Apr. 11.
- Seaton, Benjamin C., Nashville, Tenn. Three-way fulcrum shackle for vehicle springs. No. 1,412,493; Apr. 11.
- Seator, Robert J. (See Matthews, H., and Seator.)
- Seattle-Astoria Iron Works. (See Anderson, N. B., and Berg, assignors.)
- Seattle-Astoria Iron Works. (See Duncan, A. L., and Porry, assignors.)
- Seaver, James L., St. Louis, Mo. Latch. No. 1,430,330; Sept. 26.
- Seavey, Elmer S., Johnstown, Pa. Adjustable clamping joint. No. 1,408,834; Mar. 7.
- Seavey, Elmer S., Johnston, Pa. Method and apparatus for perforating metal shapes. No. 1,414,589; May 2.
- Seavey, Elmer S., Johnstown, Pa. Armored wheel tread. No. 1,424,524; Aug. 1.
- Seavey, Haller D., Greenfield, Mass., assignor to Maxwell Engineering and Manufacturing Company, New York, N. Y. Insulator. No. 1,429,110; Sept. 12.
- Seavell, Joseph M., Richmond, Va. Swinging carousel. No. 1,439,765; Dec. 26.
- Sebald, Thomas. (See Cooper, Robert L., assignor.)
- Sebastian, Alvin H., Albion, Mich. Game. No. 1,437,202; Nov. 28.
- Sebestakowicz, Feliks, McKeesport, Pa. Rail joint. No. 1,411,525; Apr. 4.
- Sebold, John, Newark, N. J. Gas heater. No. 1,402,183; Jan. 3.
- Sebring, Charles L. (See Kinnard, Frank M., assignor.)
- Sebring, Charles L., Sebring, Ohio. Drying rack for pottery manufacture. No. 1,410,275; Mar. 21.
- Sebring, Theosis C., Blissfield, Mich. Hot-air heater. No. 1,437,451; Dec. 5.
- Seche, Joseph M., Philadelphia, Pa. Electric iron. No. 1,419,173; June 13.
- Sechler, D. M., Implement & Carriage Company. (See Englund, Ernst E., assignor.)
- Sechrist, Clarence, York, Pa. Fluid motor. No. 1,419,772; June 13.
- Secor, John A., assignor to Advance-Rumely Company, Laporte, Ind. Preparing an explosive mixture for internal-combustion engines. No. 1,436,690; Nov. 28.
- Secqueville, Alfred E. L., assignor to Societe Anonyme Des Anciens Etablissements Secqueville and Hoyau, Gennevilliers, France. Lubricating bolt for the spring shackles of automobile vehicles. No. 1,402,900; Jan. 10.
- Secqueville, Alfred E. L., assignor to Societe Anonyme Des Anciens Etablissements Secqueville and Hoyau, Gennevilliers, Seine, France. Bonnet frame for automobile vehicles. No. 1,420,292; June 20.
- Secretary of War, United States of America. (See Malby, Seth G., assignor.)
- Security Amusement Engineering Corporation. (See Metzger, John, assignor.)
- Security Auto Lock Co. (See Gray, A. J., and Hebern, assignors.)
- Security Trust Company. (See Tibbetts, Milton, assignor.)
- Security Trust Company. (See Williams, Harvey D., assignor.)
- Security Trust & Savings Bank, executor. (See Clark, Edward W.) (Reissue.)
- Sedberry, James B., Texarkana, Ark. Grinding mill. No. 1,433,042; Oct. 24.
- Sedberry, James B., Texarkana, Ark. Grinding mill. No. 1,439,581; Dec. 19.
- Sedelbauer, William J., Toledo, Ohio. Gasoline purifier. No. 1,423,970; July 25.
- Sedgwick, Alexander K., Chicago, Ill. Extracting sulphur. No. 1,406,905; Feb. 14.
- Sedgwick, Allan E. (See Bailey, G. E., and Sedgwick.)
- Sedgwick, Isham, Riverside, Calif. Triple-drive tractor plow. No. 1,436,409; Nov. 21.
- See-All Manufacturing Co. (See Rees, Frank W., assignor.)
- See, Piler S., Gem, Kans. Dirigible headlamp. No. 1,404,148; Jan. 17.
- Sée, Jacques D., assignor to Societe Anonyme des Etablissements Hutchinson, Paris, France. Waterproofing and gasproofing composition. No. 1,431,845; Oct. 10.
- Seeber, George, sr. (See Metcalfe, Mortimer D., assignor.)
- Seeberg, Peter C., Clovis, Calif. Press for setting metal-felly wheels. No. 1,428,303; Sept. 5.
- Seeberger, Othmar, Brugg, Switzerland. Bobbinet-making machine. No. 1,421,579; July 4.
- Seederer & Co. (See Seederer, Jacob E., assignor.)
- Seederer, Jacob E., assignor to Seederer & Co., New Rochelle, N. Y. Scale. No. 1,408,038; Feb. 28.
- Seeds, George. (See Nelson, J., and Seeds.)
- Seeds, Shuble Y., Oklahoma, Okla. Washing machine. No. 1,433,483; Oct. 24.
- Seege, Herman W., Minneapolis, Minn. Reversible drive for washing machines. No. 1,404,166; Jan. 17.
- Seeger, Edwin W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Overload protective device. No. 1,413,239; Apr. 18.
- Seeger, Edwin W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controller for synchronous motors. No. 1,414,791; May 2.
- Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether composition. No. 1,405,448; Feb. 7.
- Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether solvent and composition. No. 1,405,449; Feb. 7.
- Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Base for antistatic film and composition for making the same. No. 1,415,059; May 9.
- Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether composition. No. 1,429,169; Sept. 12.
- Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Base for antistatic films and compositions for making the same. No. 1,431,900; Oct. 10.
- Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Antistatic photographic film. No. 1,434,453; Nov. 7.

- Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Antistatic photographic film. No. 1,434,454; Nov. 7.
- Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Making cellulose ethers. No. 1,437,820; Dec. 5.
- Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Making cellulose ethers. No. 1,437,821; Dec. 5.
- Seelar, Luther F., and F. G. Neal, assignors to St. Louis Car Company, St. Louis, Mo. Driving horn. No. 1,431,050; Oct. 3.
- Seeley, Clarence E., Spokane, Wash. Glass-washing apparatus. No. 1,436,361; Nov. 21.
- Seeley, Forest J. (See Maxwell, Singleton A., assignor.)
- Seely, Fred. (See Pickup, John R., and Seely.)
- Seelig, Alfred E., and V. H. Carples, New York, N. Y. Air-blowing device. No. 1,408,715; Mar. 7.
- Seelman, John J., Milwaukee, Wis. Container for fluids for injection purposes. No. 1,424,187; Aug. 1.
- Seely, Arthur Y., Blaine, Wash. Automatic weighing machine. No. 1,432,128; Oct. 17.
- Seely, Harry J., Los Angeles, Calif. Reflecting attachment for headlights. No. 1,424,525; Aug. 1.
- Seely, Harry J., Los Angeles, Calif. Spark-plug core. No. 1,424,526; Aug. 1.
- Seely, Thomas H. (See Wade, W. E., and Seely.)
- Seely, Thomas H., Dorchester, and R. C. Simmons, Beverly, Mass., assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Welt grooving and beveling machine. No. 1,416,757; May 23.
- Seelye, Howard P., Highland Park, Mich. Measuring instrument. No. 1,437,203; Nov. 28.
- Seemann, Henry, Hamburg, Germany. Worm for worm gearings. No. 1,421,580; July 4.
- Seewagen, Phillip A., Los Angeles, Calif. Press. No. 1,417,417; May 23.
- Seewald, Joseph, Brooklyn, N. Y. Garment construction. No. 1,421,849; July 4.
- Seferlis, Peter J., Ithaca, N. Y. Key-ring holder. No. 1,418,979; June 6.
- Segal, Elias, et al. (See Sheller, John C., assignor.)
- Segal Metal Products Company. (See Segal, Samuel, assignor.)
- Segal, Samuel, New York, N. Y. Key-duplicating machine. No. 1,439,382; Dec. 19.
- Segal, Samuel, assignor to Segal Metal Products Company, Inc., New York, N. Y. Lock. No. 1,403,127; Jan. 10.
- Segal, Samuel, assignor to Segal Metal Products Company, Inc., New York, N. Y. Spring pin. No. 1,403,128; Jan. 10.
- Segal, Samuel, assignor to Segal Metal Products Company, Inc., New York, N. Y. Lock. No. 1,409,245; Mar. 14.
- Segal, Samuel, assignor to Segal Metal Products Company, Inc., New York, N. Y. Mortise lock. No. 1,425,060; Aug. 8.
- Segal, Samuel, assignor to Segal Metal Products Company, Inc., New York, N. Y. Padlock. No. 1,439,131; Dec. 19.
- Segall, Moritz, San Francisco, Calif. Preserving ferns. No. 1,410,226; Mar. 21.
- Seger, Ludwig, Edgewater, N. J. Hinge lock. No. 1,437,204; Nov. 28.
- Segesser, Gottlieb, Zurich, Switzerland. Finger guard in writing. No. 1,402,319; Jan. 3.
- Segler, Albert H., assignor to Goodman Manufacturing Company, Chicago, Ill. Shaft cutting and centering machine. No. 1,427,233; Aug. 29.
- Seguin, Augustin, Paris, France. Apparatus for measuring speed. No. 1,424,384; Aug. 1.
- Segur, Howard J., Portland, Oreg. Spotlight control. No. 1,415,409; May 9.
- Sehn, Adam W., Cincinnati, Ohio. Dyeing machine. No. 1,405,341; Jan. 31.
- Sehrt, William F., Waukesha, Wis. Stud-bolt driver. No. 1,438,269; Dec. 12.
- Seib, George A., assignor to Remington Typewriter Company, Iilon, N. Y. Typewriting machine. No. 1,421,581; July 4.
- Seib, George A., Iilon, assignor to Remington Accounting Machine Corporation, New York, N. Y. Calculating machine. No. 1,423,741; July 25.
- Seib, George A., assignor to Remington Typewriter Company, Iilon, N. Y. Typewriting machine. No. 1,425,291; Aug. 8.
- Seib, George A., assignor to Remington Typewriter Company, Iilon, N. Y. Typewriting machine. No. 1,437,558; Dec. 5.
- Seib, Louis, and R. Brunner, Chicago, Ill. Piston-ring expander. No. 1,439,845; Dec. 26.
- Seibert, Charles F. O., St. Louis, Mo. Spat or legging. No. 1,416,421; May 16.
- Seibert, Frank M., and E. T. Gregg, assignors to Gulf Pipe Line Company, Houston, Tex. Transporting oil and apparatus useful therefor. No. 1,439,451; Dec. 19.
- Seiberth, Max. (See Hartmann, M., and Seiberth.)
- Seichter, Joseph F., Putnam, Ill. Manifold clamp. No. 1,402,381; Jan. 3.
- Seiders, Irwin A. P., Reading, Pa. Metal car end. No. 1,431,333; Oct. 10.
- Seidler, Charles B., Pittsburgh, Pa. Plastic building construction. No. 1,409,246; Mar. 14.
- Seidts, Frank F., Bryn Mawr, Pa. Label holder. No. 1,433,420; Oct. 24.
- Seifert, Fred, Boelus, Nebr. Chimney-flue liner. No. 1,415,199; May 9.
- Seifert, Ludwig, Chicago, Ill. Corner fastener for connecting the sides of boxes. No. 1,431,694; Oct. 10.
- Seifert, William, Schenectady, N. Y. Perpetual calendar. No. 1,435,557; Nov. 14.
- Seifert, William V., Thurman, Colo. Well-digging machine. No. 1,414,590; May 2.
- Seigle, William R., New York, N. Y. Brake or clutch. No. 1,409,247; Mar. 14.
- Seigle, William R., New York, N. Y. Modifying oils and the product thereof. No. 1,436,362; Nov. 21.
- Seigle, William R., New York, N. Y. Composite fireproof building fabric and making the same. No. 1,436,914; Nov. 28.
- Seignol, Edouard, Neuilly-sur-Seine, France. Watch. No. 1,413,941; Apr. 25.
- Seiler, Joseph, and E. Reiff, Los Angeles, Calif. Roofing tile. No. 1,416,583; May 16.
- Seiler, Louis, Baltimore, Md. Body-suspended bag or case. No. 1,416,238; May 16.
- Seiler, William, assignor of one-third to C. Hammond, Kokomo, Ind. Automobile lock. No. 1,410,609; Mar. 28.
- Seiler, William, assignor of one-third to C. Hammond, Kokomo, Ind. Automobile lock. No. 1,410,610; Mar. 28.
- Seiling, Roscoe R., Little Rock, Ark. Camping grate. No. 1,435,747; Nov. 14.
- Seillon, Martin, and E. Reuter, Paris, France. Appliance adapted for use as a tap wrench or vise. No. 1,410,611; Mar. 28.
- Seiss, George J., Toledo, Ohio. Mechanically-operated horn. No. 1,419,313; June 13.
- Seiss, George J., Toledo, Ohio. Automobile horn. No. 1,434,506; Nov. 7.
- Seiss, George J., Toledo, Ohio. Diaphragm horn. No. 1,435,340; Nov. 14.
- Seither, Eugene L., Cleveland, Ohio. Bathtub installation. No. 1,414,792; May 2.
- Seitz, Arthur J., New York, N. Y. Windshield parking sign. No. 1,436,410; Nov. 21.
- Seitz, Ernest O., assignor to C. M. Hall Lamp Company, Detroit, Mich. Lamp ring. No. 1,434,507; Nov. 7.
- Seitz, Charles G., Detroit, Mich. Disk 'clutch'. No. 1,415,841; May 9.
- Seitz, George F., Philadelphia, Pa. Embossing and printing apparatus. No. 1,420,765; June 27.
- Sekavec, Joseph. (See White, J. S., and Sekavec.)
- Selah, Howard A., assignor, by mesne assignments, to J. F. Kress, Johnstown, Pa. Clamp support. No. 1,416,386; May 16.
- Selas, Alexander, Pittsburgh, Pa. Micrometer lock. No. 1,402,665; Jan. 3.
- Selby, Bert, Indianapolis, Ind. Means for applying paste or the like to paper. No. 1,412,897; Apr. 18.
- Selby, Ernest F., Providence, R. I. Garment hanger. No. 1,432,419; Oct. 17.
- Selby, Paul. (See Nettle, W. E., Selby, Blythe, and Holman.)
- Selby, Wilber J., and J. Gilbert, Eagle, Idaho, assignors to Rotary Sign Company, Oakland, Calif. Rotary sign exhibitor. No. 1,431,433; Oct. 10.
- Selden, Arthur R., Rochester, N. Y. Shoe tree. No. 1,439,488; Dec. 19.
- Selden Company, The. (See Selden, James M., assignor.)
- Selden, James M. (See Conover, C., and Gibbs, assignors.)
- Selden, James M., assignor to The Selden Company, Pittsburgh, Pa. Catalyzing apparatus. No. 1,427,554; Aug. 29.
- Selden, Samuel, Denver, Colo. Lifting jack. No. 1,413,792; Apr. 25.
- Selden, Samuel, Denver, Colo. Lifting jack. No. 1,413,793; Apr. 25.
- Select Service Company. (See Hanson, Harry, assignor.)
- Self, Elwart T. (See Wood, A. D., Trantham, and Self.)
- Self, James C., Asheville, and J. B. Tweed, Marshall, N. C. Collapsible folding radiator filler. No. 1,430,691; Oct. 3.
- Self Lay Block & Machine Company. (See Emery, Harvey L., assignor.)
- Self-Oiling Bearing Company. (See Jones, John D., assignor.)
- Selfridge, Harrison A., New Haven, Conn. Paper-folding machine. No. 1,429,049; Sept. 12.
- Selianoff, Franz O., San Francisco, Calif. Loose-leaf binder. No. 1,438,061; Dec. 5.
- Selin, Charles H., Brooklyn, N. Y. Pump. No. 1,437,686; Dec. 5.
- Selin, Harry A., Reading, Pa. Signal device for railway train-order semaphores. No. 1,423,689; July 25.
- Selinger, Joseph, Obersteinmaur, Switzerland. Handle holder. No. 1,440,030; Dec. 26.
- Selinski, Christian, Cleveland, Ohio. Flag holder. No. 1,427,646; Aug. 29.
- Sell, Augustus H., Newark, N. J. Fastener for tape measures and other articles. No. 1,439,645; Dec. 19.
- Sell, Daniel G., Kansas City, Mo. Food product and making the same. No. 1,416,387; May 16.
- Sell, Johann C., Pryor, Okla. Loading mechanism. No. 1,435,879; Nov. 14.
- Sella, Edward J., Jewell, Iowa. Steering device. No. 1,416,986; May 23.
- Sellers, Sidney L., Philadelphia, Pa. Cleaning device. No. 1,419,948; June 20.

Alphabetical list of patentees—Continued.

- Selle, Arthur H., Palatka, Fla. Moss puller. No. 1,403,574; Jan. 17.
- Selleck, Theodore G., assignor to Deere & Company, Moline, Ill. Carbonizing metal articles. No. 1,402,449; Jan. 3.
- Sellers, G. I., and Sons Company. (See Mahoney, Clarence, assignor.)
- Sellers, Harry A., Roxbury, Mass. Nursing nipple. No. 1,431,762; Oct. 10.
- Sellers, William F., Brandywine Hundred, Del., assignor to Edge Moor Iron Company, Edgemoor, Del. Air seal for kilns. No. 1,434,796; Nov. 7.
- Sellers, William G. (See Broadbridge, W. Edser, and Sellers.)
- Sellew, Roland W., assignor to The Fafnir Bearing Company, New Britain, Conn. Ball-lapping machine. No. 1,418,887; June 6.
- Sellew, Roland W., assignor to The Fafnir Bearing Company, New Britain, Conn. Ball bearing. No. 1,418,888; June 6.
- Sellew, Roland W., assignor to The Fafnir Bearing Company, New Britain, Conn. Forming ball bearings. No. 1,435,507; Nov. 14.
- Sellgren, Axel, Winnipeg, Manitoba, Canada. Car door. No. 1,427,915; Sept. 5.
- Sellin, Adolf, Stuttgart, Germany. Filtering and purifying device. No. 1,405,873; Feb. 7.
- Selling, Otto. (See Kratz, Franz, Starker, and Selling.)
- Selman, Edna M., administratrix. (See Selman, Ray A.)
- Selman, Henry, Brooklyn, N. Y. Manufacture of paints. No. 1,412,893; Apr. 18.
- Selman, Ray A., deceased, Grand Rapids, Mich. E. M. Selman, administratrix. Radiator. No. 1,411,877; Apr. 4.
- Sells, Ogden S., assignor to Peerless Husker Company, Buffalo, N. Y. Butt remover. No. 1,412,543; Apr. 11.
- Selpatico, Amleto, Milan, Italy. Electric stove. No. 1,439,335; Dec. 19.
- Selrod, Alf, Chicago, Ill. Combined compressor and condenser. No. 1,429,460; Sept. 19.
- Selts, William A., Brooklyn, N. Y. Necktie presser. No. 1,431,334; Oct. 10.
- Seltzer, Harry W. J. (See Burton, Alexander M., assignor.)
- Selvig, John N., and R. Jongedyk, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Safety attachment and locking device for machines. No. 1,412,974; Apr. 18.
- Sem, Mathias O., assignor to Det Norske Aktieselskab for Elektrokemisk Industri, Christiania, Norway. Freeing metals from copper. No. 1,425,701; Aug. 15.
- "Semubusto" Elastische Radbereifungen Gesellschaft m. b. H. (See Stoll, Ludwig, assignor.)
- Semel, David, Highland Park, Mich. Stand. No. 1,438,062; Dec. 5.
- Semeleder, Oskar, Vienna, Austria. Clamping device for artificial arms. No. 1,429,111; Sept. 12.
- Semenoff, Ioakim M., South Oshawa, Ontario, Canada. Signal mail box. No. 1,436,609; Nov. 21.
- Semenow, Saul D. (See Davis, H. S., and Semenow.)
- Semenza, Marco, Milan, Italy. Means for the suspension of electric contact wires. No. 1,423,582; July 25.
- Semet-Solvay Company. (See Loomis, Chauncey C., assignor.)
- Semet-Solvay Company. (See Montonna, Ralph E., assignor.)
- Sena, Salvatore A., Detroit, Mich. Windshield. No. 1,419,414; June 13.
- Sencindiver, Jacob P., Baltimore, Md. Fountain attachment for toothbrushes. No. 1,435,558; Nov. 14.
- Senczak, Anna, et al. (See Andrusyszyn, Frank, assignor.)
- Sendelbach, Edward C., Philadelphia, Pa. Wood disk wheel. No. 1,437,948; Dec. 5.
- Sendor, Otto, Schachhausen, Switzerland. Device for truing grinding wheels. No. 1,407,954; Feb. 28.
- Sentt, John, York, assignor to United States Chain and Forging Company, Pittsburgh, Pa. Link-forming machine. No. 1,432,573; Oct. 17.
- Seng Company, The. (See Dyke, Darrell E., assignor.)
- Seng Company, The. (See Elwert, Frederick H., assignor.)
- Seng, Wendelin P., Chicago, Ill. Lubricating device. No. 1,421,582; July 4.
- Seng, Wendelin P., Chicago, Ill. Oiling device. No. 1,421,583; July 4.
- Seng, Wendelin P., Chicago, Ill. Spin hammer. No. 1,430,692; Oct. 3.
- Senio, John, Southington, Conn. Milk-bottle cover. No. 1,417,282; May 23.
- Senio, John, Southington, Conn. Combination implement. No. 1,433,659; Oct. 31.
- Senke, Charles E., Rochester, N. Y. Butter worker. No. 1,405,016; Jan. 31.
- Senn, George. (See Lindstrom, G. A., and Senn.)
- Senn, Lloyd R. (See Furness, G. T., and Senn.)
- Sensabaugh, George. (See Miller, L. S., Sensabaugh, and Shelby.)
- Senter, Frank G., Buenos Aires, Argentina. Transmission-belt fastener. No. 1,439,265; Dec. 19.
- Sentinel Alarm Clock Co. (See Butcher, James M., assignor.)
- Sentou, Camille A., and E. Jacquet, Fort Lee, N. J., assignors, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y. Rewinder. No. 1,437,915; Dec. 5.
- Sentrop, Johannes T., Jr., Montreal, Quebec, Canada. Construction of flooring or the like. No. 1,410,768; Mar. 28.
- Seppmann, Alfred B., Lake Crystal, Minn. Cotter-key puller. No. 1,403,919; Jan. 17.
- Seppmann, Alfred B., Lake Crystal, Minn. Valve-spring compressor. No. 1,438,791; Dec. 12.
- Seral, Kitchi. (See Hunter, W. H., and Seral.)
- Serene, Paul, assignor of one-third to L. F. Donnell and one-third to B. P. Higby, Youngstown, Ohio. Manicure device. No. 1,428,564; Sept. 12.
- Serene, Paul, assignor of one-third to L. F. Donnell and one-third to B. P. Higby, Youngstown, Ohio. Power-operated razor. No. 1,428,565; Sept. 12.
- Sergeant, George S., Greensboro, N. C. Sawmill feed. No. 1,432,361; Oct. 17.
- Seror, Albert Z., Chicago, Ill., assignor of one-half to E. J. Hoyer. Fan. No. 1,407,488; Feb. 21.
- Serre, Fernand A. (See Ribera, C. A. M., and Serre.)
- Serrell, John J. (See Smith, R. A., and Serrell.)
- Serrell, John J., Elizabeth, assignor to Smith and Serrell, Mahwah, N. J. Flexible coupling device. No. 1,435,141; Nov. 7.
- Serrell, John J., Elizabeth, and A. W. Shepherd, Maplewood, assignors to Smith & Serrell, Mahwah, N. J. Flexible coupling pin. No. 1,404,659; Jan. 24.
- Servais, Mathieu, Liege, Belgium. Apparatus for cutting tubes. No. 1,431,546; Oct. 10.
- Service Engineering Company, The. (See Bennett, Charles E., assignor.)
- Service Invention & Development Company. (See Moriarty, William F., assignor.)
- Service, Thomas, Bethlehem, Pa. Oil-burning-furnace front. No. 1,431,763; Oct. 10.
- Servidor Company. (See Matchette, Frank J., assignor.)
- Seska, Mike, Niles, Ohio. Adjustable washstand. No. 1,417,948; May 30.
- Sessions, Charles R., San Francisco, Calif. Pump. No. 1,427,974; Sept. 5.
- Sessions, Edson O., Chicago, Ill. Supporting mechanism for insulators. No. 1,434,565; Nov. 7.
- Sessions, Frank L., Lakewood, Ohio, assignor to The Elyria Iron & Steel Company. Electrical collecting-brush structure. No. 1,433,852; Oct. 31.
- Sessler, Marcel K., New York, N. Y. Bolt. No. 1,415,487; May 9.
- Sessoms, Hugh W., Arlington, assignor of one-half to Pacific Car and Foundry Company, Seattle, Wash. Cable-operated car for operating inclines. No. 1,412,575; Apr. 11.
- Sester, Charles P., Peoria, Ill. Sprocket wheel. No. 1,409,594; Mar. 14.
- Ses'ini, Quirino. (See Rondelli, T., and Sestini.)
- Sestron Foreign Patents, Limited. (See Rondelli, T., and Sestini, assignors.)
- Sethman, George H., assignor of one-half to C. W. Thuringer, Denver, Colo. Electric welding. No. 1,433,853; Oct. 31.
- Setter, Michael, assignor to Automatic Electric Company, Chicago, Ill. Telephone transmitter. No. 1,408,648; Mar. 7.
- Settlage, Rudolph F., St. Louis, Mo. Automatic friction clutch. No. 1,438,614; Dec. 12.
- Setty, George O., Dinuba, Calif. Marker for agricultural purposes. No. 1,402,450; Jan. 3.
- Setz, Hans R., Manitowoc, Wis. Internal-combustion engine. No. 1,404,550; Jan. 24.
- Setz, Hans R., Manitowoc, Wis. Two-cycle internal-combustion engine. No. 1,407,585; Feb. 21.
- Setz, Hans R., Manitowoc, Wis. Scavenging port control. No. 1,407,586; Feb. 21.
- Setz, Hans R., Manitowoc, Wis. Double-acting, two-cycle internal-combustion engine. No. 1,418,838; June 6.
- Setz, Hans R., Manitowoc, Wis. Cylinder for internal-combustion engines. No. 1,437,559; Dec. 5.
- Sevcik, Paul, Chicago, Ill. Device for feeding compounds in water systems. No. 1,409,248; Mar. 14.
- Severance, Edward A., Burlington, Vt. Electroplating barrel and catcher. No. 1,429,170; Sept. 12.
- Severance, Howard D., Monterey, Calif. Fish cutting and cleaning machine. No. 1,403,269; Jan. 10.
- Severance, Malvern W., Cleveland, Ohio. Phonograph needle and holder structure. No. 1,418,478; June 6.
- Severance, Malvern W., Cleveland, Ohio. Cuff button. No. 1,423,267; July 18.
- Severance, Francis J., G. W. Todd, and G. De Loree, New York, N. Y. Automatic bowling alley. No. 1,431,695; Oct. 10.
- Severin, Ludwig, Hagen-Dolstern, Germany. Process and apparatus for the manufacture of incandescent mantles for inverted incandescent lighting. No. 1,411,459; Apr. 4.
- Severson, Carl J., Minneapolis, Minn. Carbonating device. No. 1,416,307; May 16.
- Severson, Elmer, Deerfield, Wis. Lead truck for harvesters and binders. No. 1,418,889; June 6.
- Severson, Joseph, Ozone Park, N. Y. Numbering fixture. No. 1,430,407; Sept. 26.
- Severson, Louis M., and A. Livingston, Chicago, Ill. Perforated music roll. No. 1,411,306; Apr. 4.
- Severson, Louis M., and A. Livingston, Chicago, Ill. Manufacturing music rolls. No. 1,411,307; Apr. 4.
- Severson, Louis T., Duluth, Minn. Sifter sock. No. 1,439,714; Dec. 26.

- Severson, Samuel, Valders, Wis. Lubricating system for internal-combustion engines. No. 1,404,797; Jan. 31.
- Severson, Samuel, Valders, Wis. Hair-cutting machine. No. 1,404,798; Jan. 31.
- Severson, Samuel, Valders, Wis. Hair-cutting appliance. No. 1,423,363; July 18.
- Sevier, Charles D., and F. P. Eckroat, Fort Collins, Colo. Valve tool. No. 1,422,890; July 18.
- Séviné, Henri A., Winthrop, Mass., and F. K. Arnold, Nashua, N. H., assignors to National Bread Wrapping Machine Company, Boston, Mass. Wrapping machine. No. 1,412,754; Apr. 11.
- Sewall, Dana O., G. P. Milliken, and S. B. Hannaford, assignors to Lewis Manufacturing Company, Walpole, Mass. Machine for breaking strip material. No. 1,434,917; Nov. 7.
- Seward, George O., assignor to American Magnesium Corporation, Niagara Falls, N. Y. Electrolytic apparatus. No. 1,408,141; Feb. 28.
- Seward, George O., assignor to American Magnesium Corporation, Niagara Falls, N. Y. Electrolytic apparatus. No. 1,408,142; Feb. 28.
- Seward Trunk and Bag Company. (See House, T. M., and McConnell, assignors.)
- Sewell, Benjamin F. B., Chula, Va. Quick-acting multiple-purpose implement. No. 1,412,293; Apr. 11.
- Sewell, Daniel, Edmonton, Alberta, Canada. Auxiliary gasoline tank for automobiles. No. 1,423,158; July 18.
- Sewell, Edgar S., Hartford, Conn. Valve gear for internal-combustion engines. No. 1,408,781; Mar. 7.
- Sewell-Hunt Manufacturing Company, The. (See Sewell, William B., assignor.)
- Sewell, Rhodes, Banning, Ga. Game. No. 1,406,691; Feb. 14.
- Sewell, William B., assignor, by mesne assignments, to The Sewell-Hunt Manufacturing Company Incorporated, Denver, Colo. Wing for windshields. No. 1,416,422; May 16.
- Sewell, William B., assignor, by mesne assignments, to The Sewell-Hunt Manufacturing Company Incorporated, Denver, Colo. Wing for windshields. No. 1,416,423; May 16.
- Seweryn, Paul, New York, N. Y. Lock. No. 1,428,915; Sept. 12.
- Sexauer, John A., Sidney, Ohio. Dough-molding machine. No. 1,430,265; Sept. 26.
- Sexton, Fred, Benton, Ill. Larceny-proof locking apparatus. No. 1,403,131; Jan. 10.
- Sexton, George B., Asbury Park, N. J. Shipping case for caskets. No. 1,402,666; Jan. 3.
- Sexton, Isaac E., Boston, Mass. Sheet-metal can. No. 1,419,314; June 13.
- Sexton, Louis G. (See Varnum, G. B., and Sexton.)
- Seybold, Charles, Dayton, Ohio. Clamp for paper cutters. No. 1,404,239; Jan. 24.
- Seyfarth, Edward, Dixon, Ill. Tab holder. No. 1,415,488; May 9.
- Seymer, Ervin A. (See Gase, G. A., and Seymer.)
- Seymour, Benjamin F., Washington, D. C. Vehicle wheel. No. 1,409,977; Mar. 21.
- Seymour, Benjamin F., Washington, D. C. Combined resilient bearing and transmission. No. 1,437,452; Dec. 5.
- Seymour, Charles, St. Louis, Mo. Fan for power-generating apparatus. No. 1,434,916; Nov. 7.
- Seymour, Clinton K. (See Rollins, W., Seymour, and Sargent.)
- Seymour, Dudley S., Oak Park, assignor to Union Special Machine Company, Chicago, Ill. Feeding mechanism for filled-bag-sewing machines. No. 1,403,874; Jan. 17.
- Seymour, Dudley S., Oak Park, Ill., assignor to Union Special Machine Company, Chicago, Ill. Thread-laying mechanism for sewing machines. No. 1,411,891; Apr. 4.
- Seymour, Dudley S., Oak Park, assignor to Union Special Machine Company, Chicago, Ill. Feeding mechanism for sewing machines. No. 1,414,591; May 2.
- Seymour, Dudley S., Oak Park, assignor to Union Special Machine Company, Chicago, Ill. Sewing machine. No. 1,433,241; Oct. 24.
- Seymour, Frank A., Madelia, Minn. Protector for brushes. No. 1,437,822; Dec. 5.
- Seymour, Frederick S., Manchester, Iowa. Fuel feed for heating devices. No. 1,424,041; July 25.
- Seymour, George C., Brooklyn, N. Y. Heel. No. 1,438,143; Dec. 5.
- Seymour, James M., Newark, N. J. Internal-combustion engine. No. 1,404,551; Jan. 24.
- Seymour, James M., Newark, N. J. Method and means for ventilating vehicular tunnels. No. 1,418,980; June 6.
- Seymour, James M., Jr., Newark, N. J. Oil burner. No. 1,416,424; May 16.
- Seymour, John K., Elyria, Ohio. Garment supporter and fastener. No. 1,431,262; Oct. 10.
- Seymour, William E., Buffalo, N. Y. Automobile signal. No. 1,436,117; Nov. 21.
- Seyms, Robert W., San Francisco, Calif., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Dredge-bucket lip. No. 1,419,524; June 13.
- Seyms, Robert W., San Francisco, Calif., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Sectional lip for dredge buckets. No. 1,421,346; June 27.
- Sfetescu, Vasile, Weissensee, near Berlin, Germany. Air-cooled cylinder for engines with one or more cylinders. No. 1,434,069; Oct. 31.
- Shackford, Robert S., Brookline, Mass. Wrench. No. 1,434,753; Nov. 7.
- Shackford, Robert S., Brookline, Mass. Wrench. No. 1,434,754; Nov. 7.
- Shackle, Ida L. M., Watertown, S. D. Amusement apparatus. No. 1,406,765; Feb. 14.
- Shackleton, Samuel P., New York, N. Y., assignor to American Telephone & Telegraph Company. Current-supply circuit for vacuum bulbs. No. 1,404,799; Jan. 31.
- Shackleton, Samuel P., New York, N. Y., assignor to American Telephone and Telegraph Company. Signaling apparatus. No. 1,411,385; Apr. 4.
- Shackleton, Samuel P., New York, N. Y., assignor to American Telephone and Telegraph Company. Means for regulating the transmission over four-wire circuits. No. 1,438,270; Dec. 12.
- Shaddrick, Benjamin M., and D. F. Dee, Minneapolis, Minn. Kettle cover. No. 1,433,484; Oct. 24.
- Shade, George W. (See Whitehurst, D. C., and Shade.)
- Shadinger, Mark H., and C. M. Jones, Sacramento, Calif. Bank savings system. No. 1,429,461; Sept. 19.
- Shaefer, Frederick, et al. (See Christie, Hans L., assignor.)
- Shaeffer, Charles A., assignor of one-third to H. E. Sherman and one-third to L. A. Sherman, Kansas City, Mo. Shotgun shell. No. 1,429,646; Sept. 19.
- Shafer, Carl R., Detroit, Mich. Box construction. No. 1,417,776; May 30.
- Shafer, Galiard F., Detroit, Mich. Safety lighting attachment for gas burners. No. 1,433,101; Oct. 24.
- Shafer, Homer R., Detroit, Mich. Resilient wheel. No. 1,421,584; July 4.
- Shafer, Ira, and C. A. Small, San Diego, Calif. Carton-folding apparatus. No. 1,409,474; Mar. 14.
- Shafer, Samuel, Jr. (See Fraser, D., Shafer, and Levalley.)
- Shafer, Samuel, Jr., assignor to Chain Belt Company, Milwaukee, Wis. Operating mechanism for chutes. No. 1,415,410; May 9.
- Shafer, Samuel, Jr., assignor to Chain Belt Company, Milwaukee, Wis. Power-driven chute-operating mechanism. No. 1,415,411; May 9.
- Shaff, Ernest H., Grand Haven, Mich. Suitcase lock construction. No. 1,408,909; Mar. 7.
- Shaffer, George F., York Haven, Pa. Shaft collar. No. 1,405,342; Jan. 31.
- Shaffer, Glenn A., assignor of forty-two and one-half to F. H. Wirtz, Green Bay, Wis. Intermittent-operating mechanism. No. 1,437,779; Dec. 5.
- Shaffer, Glenn Q. (See Warren, J. I., and Shaffer.)
- Shaffer, J. E. (See Woodruff, Lovell H., assignor.)
- Shaffer, Patrick H., assignor of one-half to W. L. Thomas, Richwood, W. Va. Logging hook. No. 1,422,228; July 11.
- Shaffer, William D., Santa Paula, Calif. Rope socket. No. 1,429,371; Sept. 19.
- Shafier, Charles W., Schenectady, N. Y., assignor to General Electric Company. Alternating-current commutator motor. No. 1,434,755; Nov. 7.
- Shailer, Paul R., Washington, D. C. Hand-carried fluorescent indicator or signal. No. 1,402,382; Jan. 3.
- Shakespeare Company, The. (See Russell, Samuel G., assignor.)
- Shakespeare, William M., assignor to New Jersey Patent Company, West Orange, N. J. Primary battery. No. 1,407,489; Feb. 21.
- Shakeproof Screw & Nut Lock Company. (See Hosking, Richard T., assignor.)
- Shalhoub, John. (See Esselmann, Louis H., assignor.)
- Shallcross, Wilmer M., assignor to Northwestern Manufacturing Company, Milwaukee, Wis. Automatic regulator for coke ovens. No. 1,424,042; July 25.
- Shallit, Charles Z., Seattle, Wash. Egg-laying indicator. No. 1,439,132; Dec. 19.
- Shallit, Charles Z., Seattle, Wash. Egg grader. No. 1,439,133; Dec. 19.
- Shamp, Jesse M., Wooster, Ohio. Sand and gravel loader. No. 1,429,372; Sept. 19.
- Shampay, Pascal J., Chicago, Ill. Drying machine. No. 1,429,976; Sept. 26.
- Shanaberger, Charles W., Arrow, Pa. Trolley controller. No. 1,437,780; Dec. 5.
- Shand, Robert, Lynn, Mass., assignor to General Electric Company. Artificial jewel. No. 1,406,502; Feb. 14.
- Shandor, Andrew M., Lilly, Pa. Safety appliance for mining cars. No. 1,431,697; Oct. 10.
- Shank, Earl H., Terra Alta, W. Va. Cabinet polish. No. 1,411,193; Mar. 28.
- Shank, Lewis H., Paradise, Pa. Fruit-jar holder. No. 1,422,626; July 11.
- Shankland, Alice L., Chicago, Ill. Cooking utensil. No. 1,431,696; Oct. 10.
- Shanks, Jesse A. (See Snuffer, S. H., and Shanks.)
- Shanley, William C., Des Moines, Iowa. Sewer trap. No. 1,403,875; Jan. 17.
- Shannon, Charles O., Columbus, Ohio. Necktie fastener. No. 1,434,797; Nov. 7.
- Shannon, Clarence D. (See Shannon, John M. and C. D.)

Alphabetical list of patentees—Continued.

- Shannon, Ellwood M., Bala, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Equalizing gear for locomotives. No. 1,422,793; July 11.
- Shannon, Howard H., Denver, Colo. Tire protector. No. 1,423,036; July 18.
- Shannon, Howard H., Salt Creek, Wyo. Tire protector. No. 1,435,086; Nov. 7.
- Shannon, James, Canonbury, London, England. Cooking stove. No. 1,425,702; Aug. 15.
- Shannon, John B. (See Shannon, Lincoln V., O. F., and J. B.)
- Shannon, John M., Bangor, and C. D. Shannon, Greenbush, Me. Snow tire. No. 1,438,339; Dec. 12.
- Shannon, Lincoln V., O. F., and J. B., Chicago, Ill. Mop wringer. No. 1,420,872; June 27.
- Shannon, Oscar F. (See Shannon, Lincoln V., O. F., and J. B.)
- Shannon, Thomas E., assignor to Keeno Keyless Lock Company, Chicago, Ill. Door lock. No. 1,431,263; Oct. 10.
- Shapiro, Benjamin H., New York, N. Y. Reflector for Christmas-tree lamps. No. 1,435,024; Nov. 7.
- Shapiro, Harry. (See Shapiro, Jacob and H.)
- Shapiro, Jacob and H., New York, N. Y. Toy. No. 1,423,819; July 25.
- Shapiro, Max S., Brooklyn, N. Y. Signal device for automobiles. No. 1,405,165; Jan. 31.
- Shapiro & Aronson, Inc. (See Klein, Max, assignor.)
- Sharah y Cantos, Florentino E., Tacloban, Philippine Islands. Fountain pen. No. 1,415,718; May 9.
- Shardlow, William, assignor of one-half to W. Meiklejohn, Pawtucket, R. I. Core-winding machine. No. 1,433,242; Oct. 24.
- Sharon Pressed Steel Company. (See Peterson, Edwin L., assignor.)
- Sharp, Albert, assignor of one-half to G. Sharp, Bayonne, N. J. Butter cutting and printing machine. No. 1,416,517; May 16.
- Sharp, Alonzo H., and W. D. Cockrell, Aldrich, Minn. Chimney cleaner. No. 1,422,001; July 4.
- Sharp, C. A. (See Sharp, Morrison M., assignor.)
- Sharp, Charles S., Auburn, N. Y., assignor to International Harvester Company. Tandem disk harrow. No. 1,429,462; Sept. 19.
- Sharp, Chester L., deceased, Lancaster, Ohio; G. Sharp administratrix. Gas burner for furnaces. No. 1,422,891; July 18.
- Sharp, David C. and W. R. Diehl, Pittsburgh, Pa. Driving lamp for vehicles. No. 1,419,949; June 20.
- Sharp, Edward. (See Sharp, John and E.) (Reissue.)
- Sharp, George. (See Sharp, Albert, assignor.)
- Sharp, George W., St. Louis, Mo. Heater. No. 1,405,943; Feb. 7.
- Sharp, Georgia, administratrix. (See Sharp, Chester L.)
- Sharp, Isaac M., San Francisco, Calif. Oil burner. No. 1,433,158; Oct. 24.
- Sharp, Isaac M., San Francisco, Calif. Rotary oil burner. No. 1,433,159; Oct. 24.
- Sharp, Jacob, assignor of one-fourth to A. Skillnyk and one-fourth to W. Fedak, Fort William, Ontario, Canada. Farm machinery. No. 1,418,981; June 6.
- Sharp, John, Oakmont, assignor to Aluminum Seal Company, New Kensington, Pa. Feeding mechanism. No. 1,422,229; July 11.
- Sharp, John, Oakmont, assignor to Aluminum Seal Company, Pittsburgh, Pa. Bottle-capping machine. No. 1,440,246; Dec. 26.
- Sharp, John and E. Cleveland, Ohio. Aeroplane. (Reissue.) No. 15,291; Feb. 21.
- Sharp, John E., and A. J. Bassett, Milwaukee, Wis. Fuel feeder for gas generators. No. 1,439,192; Dec. 19.
- Sharp, John H., Chicago, Ill. Dust guard for car-axle boxes. No. 1,407,587; Feb. 21.
- Sharp, Lee C. (See Peterson, Thorwald B., assignor.)
- Sharp, Lee C., Plattsmouth, Nebr., assignor, by mesne assignments, to A. McLaren, Dayton, Ohio. Apparatus for baking pastry. No. 1,407,304; Feb. 21.
- Sharp, Lee C., Plattsmouth, Nebr., assignor, by mesne assignments, to A. McLaren, Dayton, Ohio. Method and means for making cup pastry. No. 1,416,889; May 23.
- Sharp, Morrison M., assignor of one-half to C. A. Sharp, Waxahachie, Tex. Spark-plug protector. No. 1,411,194; Mar. 28.
- Sharp, Ray C., Anaheim, Calif. Automatic expansible packing head. No. 1,427,647; Aug. 29.
- Sharp, Ray C., Los Angeles, Calif. Expansible packing head. No. 1,427,648; Aug. 29.
- Sharp, Robert C., assignor of one-fourth to C. A. Harpman, Youngstown, Ohio. Electric drilling tool. No. 1,419,415; June 13.
- Sharp, Robert E., Esbon, Kans. Nonskid mud and snow device. No. 1,418,839; June 6.
- Sharp, William A., Des Moines, Iowa. Repeater device for phonographs. No. 1,434,666; Nov. 7.
- Sharp, William H., assignor to Bauer & Black, Chicago, Ill. First-aid packet. No. 1,434,566; Nov. 7.
- Sharp & Smith. (See Brix, Harold, assignor.)
- Sharpe, Frank H., Dorchester, Mass. Divider. No. 1,416,987; May 23.
- Sharpe, Joseph, Hampton, Va. Aerial mounting for cameras. No. 1,423,364; July 18.
- Sharpe, William H., Lakewood, Ohio, assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical switching device. No. 1,412,372; Apr. 11.
- Sharples, Philip T., St. Davids, Pa. Refining petroleum. No. 1,416,890; May 23.
- Sharples, Philip T., Merion, Pa. Refining oil. No. 1,416,891; May 23.
- Sharpless, John F., Jr., assignor to The American Pulley Company, Philadelphia, Pa. Window pulley. No. 1,420,873; June 27.
- Sharpnack, James A., Rices Landing, Pa. Facing tool. No. 1,423,462; July 18.
- Sharretts, John F., Washington, D. C. Toy. No. 1,413,294; Apr. 18.
- Sharron, Samuel P., assignor of one-half to B. Podolsky, Philadelphia, Pa. Lumberman's hammer. No. 1,432,794; Oct. 24.
- Shartle, Charles W., Middletown, Ohio. Making pulp used in the manufacture of paper. No. 1,405,946; Feb. 7.
- Shartle, Charles W., Middletown, Ohio. Apparatus for manufacturing pulp. No. 1,405,947; Feb. 7.
- Shartle, Charles W., Middletown, Ohio. Apparatus for making pulp used in the manufacture of paper. No. 1,415,902; May 16.
- Shartle, Charles W., assignor to The Shartle Continuous Beater Company, Middletown, Ohio. Manufacturing paper pulp. No. 1,405,944; Feb. 7.
- Shartle, Charles W., assignor to The Shartle Continuous Beater Company, Middletown, Ohio. Manufacturing paper pulp. No. 1,405,945; Feb. 7.
- Shartle Continuous Beater Company, The. (See Shartle, Charles W., assignor.)
- Shartle, Ralph W., assignor to Wayne Manufacturing Company, St. Louis, Mo. Vehicle signal. No. 1,425,905; Aug. 15.
- Shatz, Barnett, Buenos Aires, Argentina. Ruler blotter. No. 1,413,794; Apr. 25.
- Shatz, Barnett, Buenos Aires, Argentina. Device for graduating lines on ruled paper. No. 1,422,892; July 18.
- Shaver, Archibald G., Chicago, Ill. Electro-gas-light signal. No. 1,410,961; Mar. 28.
- Shaver, Archibald G., Chicago, Ill., assignor, by mesne assignments, to Regan Safety Devices Company, Inc. Combined reservoir and brake valve. No. 1,411,526; Apr. 4.
- Shaver, Archibald G., Chicago, Ill., assignor to Regan Safety Devices Company, Inc. Speed circuit controller. No. 1,415,412; May 9.
- Shaver, Archibald G., Chicago, Ill., assignor, by mesne assignments, to Regan Safety Devices Company, Incorporated. Ramp rail. No. 1,433,973; Oct. 31.
- Shaver, Milton E., assignor to The Pullman Company, Chicago, Ill. Center-pin truck connection. No. 1,402,972; Jan. 10.
- Shaw, A. B., Medford, assignor to Shaw Specialty Co. Inc., West Medford, Mass. Stopper for hot-water bottles. No. 1,423,463; July 18.
- Shaw, A. B., Medford, assignor to Shaw Specialty Co. Inc., West Medford, Mass. Stopper for hot-water bottles. No. 1,423,464; July 18.
- Shaw, Albert, and W. K. Glennon, assignors to The Good-year Tire & Rubber Company, Akron, Ohio. Tire-making machine. No. 1,409,792; Mar. 14.
- Shaw, Arthur L., Chicago, Ill., assignor to Chicago Automatic Conveyor Co. Conveyor. No. 1,422,002; July 4.
- Shaw, Arthur L., assignor to Chicago Automatic Conveyor Co., Chicago, Ill. Portable bucket conveyor. No. 1,432,917; Oct. 24.
- Shaw, Charles H., Babylon, N. Y., assignor to The Aeolian Company. Sound box. No. 1,439,981; Dec. 26.
- Shaw, Clifford R., Chicago, Ill. Sound reproducer. No. 1,407,002; Feb. 21.
- Shaw, Edmund, assignor to The Allen Cone Co., El Paso, Tex. Sand-washing device. No. 1,406,291; Feb. 14.
- Shaw, Edward C., Galesburg, Ill., assignor, by mesne assignments, to Shaw, Welsh & Company. Stock feeder. No. 1,419,950; June 20.
- Shaw, Frank S. (See Washburne, William H., assignor.)
- Shaw, Fred H., Dallas, Tex. Riveting machine. No. 1,402,901; Jan. 10.
- Shaw, Frederick A., Dighton, Mass., assignor to A. A. Green, Providence, R. I. Repeat device for phonographs. No. 1,407,090; Feb. 21.
- Shaw, Frederick M., Chicago, Ill. Pneumatic gasket. No. 1,439,452; Dec. 19.
- Shaw, George S., assignor to Louisville Frog & Switch Company, Louisville, Ky. Railway frog. No. 1,402,098; Jan. 3.
- Shaw, Harold F. (See Ambler, G. B., and Shaw.)
- Shaw, Henry, Birmingham, England. Woodworking machine. No. 1,402,667; Jan. 3.
- Shaw, Helen A., executrix. (See Shaw, Walter.)
- Shaw, Ira D., Boston, Mass. Ball-and-socket joint. No. 1,428,715; Sept. 12.
- Shaw, Jack W. (See Shaw, John W., assignor.)
- Shaw, James, Toronto, Ontario, Canada. Phonograph. No. 1,422,310; July 11.
- Shaw, John C., Pretoria, Transvaal, South Africa. Chilling and freezing animal substances. No. 1,422,627; July 11.
- Shaw, John C., Pretoria, Transvaal, South Africa. Apparatus or plant for chilling and freezing animal substances. No. 1,422,628; July 11.

- Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Casement-window adjuster. No. 1,426,415; Aug. 22.
- Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,437,781; Dec. 5.
- Shaw, John P., Goedgevonden, Transvaal, South Africa. Surveying instrument. No. 1,405,017; Jan. 31.
- Shaw, John W., assignor of one-half to J. W. Shaw, San Jose, Calif. Prune picker. No. 1,439,266; Dec. 19.
- Shaw, Joseph, assignor to Rainbow Picture Corporation, New York, N. Y. Producing motion pictures in colors. No. 1,402,668; Jan. 3.
- Shaw, Joseph, assignor to Rainbow Pictures Corporation, New York, N. Y. Production of motion pictures in colors. No. 1,402,669; Jan. 3.
- Shaw, Leander P., Bradford, Pa. Lock joint for rods. No. 1,403,201; Jan. 10.
- Shaw, Louis E., East Orange, N. J., assignor to Williams Motors Inc., New York, N. Y. Means for controlling fluid leakage through joints and bearings. No. 1,426,416; Aug. 22.
- Shaw, Louis E., East Orange, N. J., assignor to Williams Motors Inc., New York, N. Y. Wheel mounting for light motor vehicles. No. 1,426,417; Aug. 22.
- Shaw, Louis E., East Orange, N. J., assignor to E. J. Bullwinkel, New York, N. Y. Vehicle top-controlling mechanism. No. 1,435,181; Nov. 14.
- Shaw, Louis E., East Orange, N. J., assignor to E. J. Bullwinkel, New York, N. Y. Automobile top-securing device. No. 1,435,182; Nov. 14.
- Shaw, Osman, Stockport, and W. F. Roberts, Wallington, England. Reversing mechanism for machines cutting right and left hand helicals on rollers and the like. No. 1,438,403; Dec. 12.
- Shaw, Patrick J., Dixon, Calif. Harvester cutting mechanism. No. 1,430,408; Sept. 26.
- Shaw, Percy W. (See Gale, F. G., and Shaw.)
- Shaw, Percy W., Lynn, Mass., and F. G. Gale, Waterville, Quebec, Canada; said Shaw assignor to said Gale. Tube-welding machine. No. 1,434,918; Nov. 7.
- Shaw, Ross O., assignor to Canadian Car & Foundry Company, Limited, Montreal, Quebec, Canada. Repairing post for bolsters. No. 1,425,703; Aug. 15.
- Shaw, Samuel H., New York, N. Y. Automobile bumper. No. 1,431,264; Oct. 10.
- Shaw, Samuel H., New York, N. Y. Auxiliary impact unit for automobile bumpers. No. 1,431,265; Oct. 10.
- Shaw, Samuel T., Jr. (See Howard, John A., Sr., assignor.)
- Shaw Specialty Co. Inc. (See Shaw, A. B., assignor.)
- Shaw, Thomas, Hackensack, N. J., and W. Fondiller, assignors to Western Electric Company, Incorporated, New York, N. Y. Loaded-telephone-line system. No. 1,433,305; Oct. 24.
- Shaw, Walter, deceased, Dedham, Mass., by H. A. Shaw, executrix, assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-setting machine. No. 1,423,626; July 25.
- Shaw, William A. (See Perdue, M., and Shaw.)
- Shaw, William B., New York, N. Y. Pneumatic tire. No. 1,436,782; Nov. 28.
- Shaw, William S., Chicago, Ill. Sole-cutting machine. No. 1,408,537; Mar. 7.
- Shaw, Welsh & Company. (See Shaw, Edward C., assignor.)
- Shaw-Welsh & Company. (See Smith, John B., assignor.)
- Shawyer, William E., assignor to George W. Eno Rubber Company, Los Angeles, Calif. Attaching retreads to worn tire casings. No. 1,409,418; Mar. 14.
- Shawinigan Laboratories Limited. (See Matheson, H. W., and Grattan, assignors.)
- Shawinigan Laboratories, Limited. (See Skirrow, Frederick W., assignor.)
- Shawmut Engineering Company. (See Lea, Charles, assignor.)
- Shawmut Machine Works. (See Smith, Raymond D., assignor.)
- Shawver, George D., and H. E. Richardson, Grimes, Iowa. Box pasting and sealing machine. No. 1,434,230; Oct. 31.
- Shay, Harry C., Seattle, Wash. Box-wiring machine. No. 1,436,055; Nov. 21.
- Shea, Fred C. (See Fitch, J. A., and Shea.)
- Shea, John J., Jr., Elmhurst, N. Y. Freight-handling apparatus. No. 1,402,257; Jan. 3.
- Shea, Michael M., Potsdam, N. Y. Vehicle tongue structure. No. 1,436,539; Nov. 21.
- Shea, Robert, Martell, Calif. Cradle rocker. No. 1,420,582; June 20.
- Sheaffer, Robert C., Lancaster, Pa. Composition for building blocks. No. 1,428,811; Sept. 12.
- Sheal, Robert E., Cleveland, Ohio. Cog track for moving structures. No. 1,435,341; Nov. 14.
- Shealey, Heber S., et al. (See Bodie, Albert B., assignor.)
- Shear, Arthur H. (See Elliott, Winfred W., assignor.)
- Sheard, Charles, Sturbridge, and E. D. Tilyer, assignors to American Optical Company, Southbridge, Mass. Ophthalmic lens. No. 1,426,513; Aug. 22.
- Shearer, Adam H., York, Pa. Sectional bed frame. No. 1,405,721; Feb. 7.
- Shearer, Arthur M., Indiana, Pa. Single-line grab-bucket construction. No. 1,422,003; July 4.
- Shearer, Harry T., Waynesboro, Pa. High-speed bearing. No. 1,437,560; Dec. 5.
- Shearer, John A., Millswood Estate, South Australia, Australia. Fan. No. 1,420,155; June 20.
- Shearer, Joseph A., et al. (See Werts, William D., assignor.)
- Shearman, John, Brookline, Mass. Wrench. No. 1,413,622; Apr. 25.
- Shears, Edward C., Portland, Oreg. Baseball target. No. 1,418,207; May 30.
- Shcasley, Charles H., assignor to Franklin Valveless Engine Company, Franklin, Pa. Internal-combustion engine. No. 1,409,886; Mar. 14.
- Sheberashenko, Andrey, Detroit, Mich. Radius tool. No. 1,415,903; May 16.
- Sheckler, Wilder R., Greenville, Pa. Gearless differential. No. 1,437,453; Dec. 5.
- Shedd, Edward W., administrator. (See Wiswall, Alvah.)
- Shee, Parke B., Oak Park, Ill., assignor to Sears Roebuck and Company. Oiling device for bearings of centrifugal cream separators. No. 1,402,544; Jan. 3.
- Sheehan, Thomas C., Upper Montclair, N. J., assignor to Durham Duplex Razor Company, New York, N. Y. Apparatus for making hollow-ground razor blades. No. 1,425,798; Aug. 15.
- Sheehan, Walter H., Steubenville, Ohio. Combined headlight and direction indicator. No. 1,422,629; July 11.
- Sheehan, Walter H., Steubenville, and J. W. Eckard, Mingo Junction, Ohio. Window. No. 1,403,575; Jan. 17.
- Sheehan, William M., assignor to Commonwealth Steel Company, St. Louis, Mo. Locomotive truck and cradle frame. No. 1,410,962; Mar. 25.
- Sheehan, William M., St. Louis, Mo., assignor, by mesne assignments, to H. L. Ingersoll. Control of booster motors for locomotives. No. 1,413,688; Apr. 25.
- Sheehy, Leonard W. (See Sheehy, William E., assignor.)
- Sheehy, William E., assignor of one-half to L. W. Sheehy, Newfields, N. H. Power hammer. No. 1,428,612; Sept. 12.
- Sheeley, George W., Frederick, Md. Valve for air tubes. No. 1,437,454; Dec. 5.
- Sheen, Milton R., assignor to Tunnel Machine Manufacturing and Engineering Company, Philadelphia, Pa. Machine for building tunnels and the like. No. 1,429,647; Sept. 19.
- Sheen, Patrick W., Clinton, Iowa. Overalls. No. 1,402,320; Jan. 3.
- Sheer, Eugene, Lincoln, Ill. Auto luggage carrier. No. 1,429,112; Sept. 12.
- Sheer, Henry M., Quincy, Ill. Heater for brooders. No. 1,421,315; June 27.
- Sheer, Henry M., Quincy, Ill. Heating system for brooders, incubators, and the like. No. 1,427,703; Aug. 29.
- Sheer, Henry M., Quincy, Ill. Burner for oil-heating systems. No. 1,427,704; Aug. 29.
- Sheer, Henry M., Quincy, Ill. Heating system for incubators, brooders, and the like. No. 1,432,574; Oct. 17.
- Sheer, Henry M., Quincy, Ill. Heating system for brooders, incubators, and the like. No. 1,432,575; Oct. 17.
- Sheer, Henry M., Quincy, Ill. Heating system for brooders, incubators, and the like. No. 1,432,576; Oct. 17.
- Sheet Lathing Corporation. (See Potter, Stephen J., assignor.)
- Sheet Metal Products Company. (See Gredell, Otto N., assignor.)
- Sheets, Halley A., Fairfield, Nebr. Highway sign. No. 1,410,414; Mar. 21.
- Sheets, Lenard E., Campo, Colo. Combination lock. No. 1,418,176; May 30.
- Sheets, Wilbur C., Audubon, Iowa. Stacking device. No. 1,430,761; Oct. 3.
- Sheetz, Harry A., Jr., New York, N. Y. Vulcanizer igniter. No. 1,428,862; Sept. 12.
- Sheffield, Guy A., St. Petersburg, Fla. Door. No. 1,437,205; Nov. 28.
- Sheheen, Leo T., Hornell, N. Y. Garment-pressing machine. No. 1,436,540; Nov. 21.
- Sheinker, George S., assignor of one-half to A. Miller, New York, N. Y. Braking mechanism for road vehicles. No. 1,427,916; Sept. 5.
- Sheinman, Morris, New York, N. Y. Lock. No. 1,413,137; Apr. 18.
- Shek, Frank P., Brooklyn, N. Y. Can opener. No. 1,425,704; Aug. 15.
- Shelby Supply and Manufacturing Company. (See Case, Francis M., assignor.)
- Shelby, William D. (See Miller, L. S., Sensabaugh, and Shelby.)
- Sheldon, Anna M., Pawtucket, R. I. Doll. No. 1,439,846; Dec. 26.
- Sheldon, Edgar H., Muskegon, Mich. Table and like article. No. 1,408,226; Feb. 28.
- Sheldon, George F., Fargo, N. Dak. Seed-potato cutter. No. 1,432,420; Oct. 17.
- Sheldon, Guy R. (See Farran, Duncan C., assignor.)
- Sheline, Orville O., Chicago, Ill. Receptacle. No. 1,419,315; June 13.
- Sheline, Orville O., Chicago, Ill. Receptacle holder. No. 1,423,465; July 18.
- Shell Company of California. (See Sanders, Edward H., assignor.)
- Shell, Lester, Hopkins, Mo. Ring tool. No. 1,410,415; Mar. 21.

Alphabetical list of patentees—Continued.

- Shellady, Willam D., Wilmington, Del. Collapsible sleeping compartment. No. 1,404,485; Jan. 24.
- Shellenberger, John, Rome, Ga., assignor to Sealed Case Company. Binding-wire-cutting mechanism for wire-bound-box-blank machines and the like. No. 1,416,419; May 16.
- Sheller, Albert G., Claysville, Pa. Telephone attachment. No. 1,404,800; Jan. 31.
- Sheller, David B., Tacoma, Wash. Auto burglar alarm. No. 1,418,177; May 30.
- Sheller, John C., assignor to E. Segal and L. Boruszak, Janesville, Wis. Permutation lock. No. 1,430,195; Sept. 26.
- Shellington, William H., Ticonderoga, N. Y., assignor to International Paper Company. Paper-cutting device for paper-making machines. No. 1,402,451; Jan. 3.
- Shelly, Samuel, assignor of one-half to S. Moyerman, Philadelphia, Pa. Means for protecting ships from collisions, etc. No. 1,402,258; Jan. 3.
- Shelor, Frederick L., Petersburg, Va. Sound-wave-transmitting device. No. 1,437,270; Nov. 28.
- Shelor, Frederick L., Salem, assignor to International Filler Corporation, Petersburg, Va. Bottle-labeling machine. No. 1,413,795; Apr. 25.
- Shelor, Frederick L., Salem, assignor to International Filler Corporation, Petersburg, Va. Trap or overflow jar. No. 1,413,796; Apr. 25.
- Shelor, Frederick L., assignor to International Filler Corporation, Petersburg, Va. Bottle-filling apparatus. No. 1,413,797; Apr. 25.
- Shelor, Frederick L., Salem, assignor to International Filler Corporation, Petersburg, Va. Apparatus for filling vessels. No. 1,437,916; Dec. 5.
- Shelor, Frederick L., Salem, assignor to International Filler Corporation, Petersburg, Va. Apparatus for filling receptacles. No. 1,437,917; Dec. 5.
- Shelton, Cleveland C., Buckner, Va. Broom holder. No. 1,414,049; Apr. 25.
- Shelton, George I., assignor of one-half to R. Ginn, Fort Worth, Tex. Telegraph instrument. No. 1,436,541; Nov. 21.
- Shelton, Harry J., St. Louis, Mo. Grinder and shredder. No. 1,421,731; July 4.
- Shelton, Roy C., Nashville, Tenn. Tractor. No. 1,430,693; Oct. 3.
- Shelton, William G., New York, N. Y. Display or advertising device. No. 1,418,740; June 6.
- Shelton, William G., New York, N. Y. Automatic electric switch. No. 1,425,610; Aug. 15.
- Shely, William A., Chicago, Ill. Machine for treating or breaking and scutching hemp or other fibrous material. No. 1,410,416; Mar. 21.
- Shenk, Adolphus M., A. Saltzer, and L. Saltzer, Calexico, Calif.; said A. Saltzer and said L. Saltzer assignors of one-sixth to said Shenk. Wrench. No. 1,408,143; Feb. 28.
- Shenstone, Frank B., Sydney, New South Wales, Australia. Employees' time-registering apparatus. No. 1,432,627; Oct. 17.
- Shepard, Frederick G., Peckham, London, England. Printer's type gauge. No. 1,417,208; May 23.
- Shepard, Fredrick E., and J. B. Phillips, Tampa, Fla. Electric water heater. No. 1,435,559; Nov. 14.
- Shepard, Homer E., assignor to D. B. Suter, Rochester, N. Y. Explosive engine. No. 1,427,555; Aug. 29.
- Shepard, Victor J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Locomotive-cab construction. No. 1,437,078; Nov. 28.
- Shepard, Wilbur L., Elmwood, assignor of one-half to A. N. Pierson, Cromwell, Conn. Hydraulic-power apparatus. No. 1,409,249; Mar. 14.
- Shepard, Harry, Coventry, England. Power indicator for internal-combustion engines. No. 1,422,485; July 11.
- Shepherd, Alfred W. (See Serrell, J. J., and Shepherd.)
- Shepherd, Clarence G., assignor to R. S. Dickinson, Los Angeles, Calif. Compact portable hanging and display device. No. 1,435,183; Nov. 14.
- Shepherd, Daniel W., Pocatello, Idaho. Concentrating surface. No. 1,405,018; Jan. 31.
- Shepherd, Frank D., Aurora, Ill. Poppet-valve mechanism for internal-combustion engines. No. 1,418,479; June 6.
- Shepherd, Frank D., Aurora, Ill. Flying machine. No. 1,431,698; Oct. 10.
- Shepherd, George R., Brookline, Mass. Side-curtain confiner for vehicles. No. 1,407,091; Feb. 21.
- Shepherd, John R. (See Hanson, J. R., and Shepherd.)
- Shepherd, Sylvester B. (See Daniel, David C., assignor.)
- Shepherdson, William, New Liskeard, Ontario, Canada. Wood saw. No. 1,423,159; July 18.
- Shepherdson, William L., Minneapolis, Minn. Article of furniture. No. 1,419,647; June 13.
- Shepis, Frank, San Francisco, Calif. Automobile safety appliance. No. 1,408,227; Feb. 28.
- Sheppard, Charles L. (See Karr, J. R., and Sheppard.)
- Sheppard, Creedy C. (See Schmidt, H. C., and Sheppard.)
- Sheppard, Creedy C., and H. C. Schmidt, Washington, D. C. Mechanism and method for disassembling cartridges. No. 1,403,525; Jan. 17.
- Sheppard, Orlando, jr., Atlanta, Ga., assignor to Buckeye Iron & Brass Works, Dayton, Ohio. Cotton-seed-meal cooker. No. 1,433,746; Oct. 31.
- Sheppard, Orlando, jr., Atlanta, Ga., and R. A. Trace, assignors to Buckeye Iron & Brass Works, Dayton, Ohio. Overhead feed alarm. No. 1,438,406; Dec. 12.
- Sheppard, Samuel E. (See Eberlin, L. W., and Sheppard.)
- Sheppard, Walter C., Baltimore, Md. Wrench. No. 1,419,525; June 13.
- Sheppard, William H., San Francisco, Calif. Geological-fault guide. No. 1,425,705; Aug. 15.
- Sheras, Morris, assignor to M. Gesas, trustee, Chicago, Ill. Time stamp. No. 1,430,031; Sept. 26.
- Sherban, Daniel V., Canton, Ohio. Pulverizing mill. No. 1,427,234; Aug. 29.
- Sherban, Daniel V., Canton, Ohio. Pulverizing mill. No. 1,433,485; Oct. 24.
- Sherbondy, Earl H., Cleveland, Ohio. Turbocompressor control. No. 1,419,316; June 13.
- Sherbondy, Earl H., Cleveland, Ohio. Valve mounting. No. 1,436,976; Nov. 28.
- Sherbondy, Earl H., assignor to S. D. Waldon, Detroit, Mich. Universal joint. No. 1,414,377; May 2.
- Sherbondy, Earl H., assignor to S. D. Waldon, Detroit, Mich. Control mechanism. No. 1,415,200; May 9.
- Sherbondy, William E., Cleveland, Ohio. Rotary brush. No. 1,425,906; Aug. 15.
- Sherer, William T., Chicago, Ill. Furniture drawer. No. 1,410,769; Mar. 28.
- Sheridan, Bernard L., et al. (See Johnston, James B., assignor.)
- Sheridan, Frank M., et al. (See Johnston, James B., assignor.)
- Sheridan, Guy E., and G. G. Griswold, Jr., Butte, Mont. Concentration of ores by flotation. No. 1,421,585; July 4.
- Sheridan, Guy E., and G. G. Griswold, jr., Butte, Mont. Concentration of ores. No. 1,427,235; Aug. 29.
- Sheridan, Joseph P., New York, N. Y. Luminous letter. No. 1,409,595; Mar. 14.
- Sherk, Earl B., Lebanon, Pa. Apparatus for cutting valve faces. No. 1,437,366; Nov. 28.
- Sherlock, John F., New York, N. Y. Envelope folder. No. 1,413,689; Apr. 25.
- Sherman, Alvin G. (See Sherman, John S. and A. G.)
- Sherman, Alvin G., assignor to Detroit Vapor Stove Company, Detroit, Mich. Burner regulator. No. 1,423,627; July 25.
- Sherman, Cecil H., and F. E. Morris; said Sherman assignor, by mesne assignments, of his entire right to J. C. Bergner, Philadelphia, Pa. Cooking apparatus. No. 1,414,713; May 2.
- Sherman, Charles H., North Attleboro, Mass. Slide for ribbon watch guards. No. 1,417,575; May 30.
- Sherman, Charles T., sr., Goldvein, Va. Shipping coop. No. 1,424,218; Aug. 1.
- Sherman, Cortis F., Hartford, Conn., assignor to The Hess-Bright Manufacturing Company. Chuck. No. 1,410,612; Mar. 28.
- Sherman, Frank, McLouth, Kans. Guard rail. No. 1,439,267; Dec. 19.
- Sherman, Harry E., et al. (See Shaeffer, Charles A., assignor.)
- Sherman, Howard B., Battle Creek, Mich. Electrical conductor terminal connector. No. 1,437,687; Dec. 5.
- Sherman, Howard B., and F. Hanlan, Battle Creek, Mich.; said Hanlan assignor to said Sherman. Electrical-conductor terminal connector. No. 1,440,247; Dec. 26.
- Sherman, John Q. (See Johnson, Arthur A., assignor.)
- Sherman, John Q., Dayton, Ohio. Autographic register. No. 1,416,129; May 16.
- Sherman, John Q., Dayton, Ohio. Autographic register. No. 1,416,130; May 16.
- Sherman, John Q., Dayton, Ohio. Manifold attachment for typewriters. No. 1,418,480; June 6.
- Sherman, John Q., Dayton, Ohio. Printing and punching manifold paper. No. 1,418,481; June 6.
- Sherman, John Q., Dayton, Ohio. Rotary punch. No. 1,423,690; July 25.
- Sherman, John Q., Dayton, Ohio. Manifold type-writer. No. 1,425,907; Aug. 15.
- Sherman, John Q., Dayton, Ohio. Manifold register. No. 1,431,266; Oct. 10.
- Sherman, John Q., and A. W. Metzner, Dayton, Ohio; said Metzner assignor to said Sherman. Autographic register. No. 1,403,647; Jan. 17.
- Sherman, John Q., and A. W. Metzner, Dayton, Ohio; said Metzner assignor to said Sherman. Transmission mechanism. No. 1,419,174; June 13.
- Sherman, John Q., and A. W. Metzner, Dayton, Ohio; said Metzner assignor to said Sherman. Electrically-operated manifold device. No. 1,437,949; Dec. 5.
- Sherman, John Q., and A. W. Metzner, Dayton, Ohio; said Metzner assignor to said Sherman. Autographic register. No. 1,439,135; Dec. 19.
- Sherman, John S. and A. G., assignors to Detroit Vapor Stove Company, Detroit, Mich. Priming horn. No. 1,439,917; Dec. 26.
- Sherman, Louie A., et al. (See Shaeffer, Charles A., assignor.)
- Sherman, Phillip, Toledo, Ohio. Frost and obscuring-condensation preventive for glass surfaces and preparing the same. No. 1,410,839; Mar. 28.

- Sherman, Russell, Des Moines, Iowa. Vehicle lock. No. 1,413,194; Apr. 18.
- Sherman, Walter F., Elmsere, N. Y. Shears. No. 1,425,061; Aug. 8.
- Sherman, William T., Troy, assignor to Henry L. Hughes Co., Inc., New York, N. Y. Brush-making machine. No. 1,439,766; Dec. 26.
- Sheronas, Frank P., New Haven, Conn. Tow rod. No. 1,433,486; Oct. 24.
- Sherry, Louise A., Carthage, N. Y. Article of apparel. No. 1,434,231; Oct. 31.
- Sherwin, Edgerton H. (See Sherwin, Edwin C. and E. H.)
- Sherwin, Edwin C. and E. H., Brandon, Wis. Stanchion. No. 1,402,902; Jan. 10.
- Sherwin, Ralph S., East St. Louis, Ill., assignor to Aluminum Company of America, Pittsburgh, Pa. Obtaining alumina. No. 1,422,004; July 4.
- Sherwin Williams Company. (See Russell, Albert P., assignor.)
- Sherwood, Carlyle J., assignor to Coen Co., San Francisco, Calif. Automatic draft regulator. No. 1,422,311; July 11.
- Sherwood, Charles F., Los Angeles, Calif. Bearing. No. 1,416,988; May 23.
- Sherwood, Charles F., assignor to G. T. Hanson, Salt Lake City, Utah. Mixing. No. 1,434,232; Oct. 31.
- Sherwood, Charles M., Brooklyn, assignor of one-half to A. C. Lopez, New York, N. Y. Safety pin. No. 1,408,538; Mar. 7.
- Sherwood, Daniel R., assignor to H. B. Newhall, Plainfield, N. J. Expansion bolt. No. 1,417,209; May 23.
- Sherwood, Edna I. (See Sherwood, William E., assignor.)
- Sherwood, Frederick W., Brooklyn, assignor to Kelly-Springfield Tire Company, New York, N. Y. Resilient vehicle tire. No. 1,427,331; Aug. 29.
- Sherwood, George E., assignor to Guarantee Liquid Measure Company, Rochester, Pa. Portable oil dispenser. No. 1,436,056; Nov. 21.
- Sherwood, Joseph J., St. Louis, Mo., assignor to Hobker Electrochemical Company, New York, N. Y. Electrolytic method and apparatus. No. 1,427,236; Aug. 29.
- Sherwood, Ludlow S., Chicago, Ill. Saw-filing machine. No. 1,422,486; July 11.
- Sherwood, Ora, et al., trustees. (See Rimmer, Robert C., assignor.)
- Sherwood, William E., assignor to E. I. Sherwood, Canastota, N. Y. Camping outfit. No. 1,431,187; Oct. 10.
- Shevlin, George F., Glens Falls, N. Y. Centrifugal pulp screen. No. 1,436,411; Nov. 21.
- Shiba, Yaichiro, San Jose, Calif. Automobile signal. No. 1,426,610; Aug. 22.
- Shibata, Fuji, Tokyo Fu. and Yushichi Nishizawa, Tokyo, Japan. Drying Japanese lacquer. No. 1,429,542; Sept. 19.
- Shibiya, Robin I., Omaha, Nebr. Chain pliers. No. 1,419,081; June 6.
- Shibiya, Robin I., Omaha, Nebr. Valve lifter. No. 1,424,683; Aug. 1.
- Shibiya, Robin I., Omaha, Nebr. Valve lifter. No. 1,440,317; Dec. 26.
- Shickluna, Joseph J., assignor to Buffalo Specialty Company, Buffalo, N. Y. Polishing mop. No. 1,428,263; Sept. 5.
- Shields, George, assignor of one-half to C. L. Morrill, Winslow, Wash. Rotary steam engine. No. 1,406,503; Feb. 14.
- Shields, Howard F., Eureka, Calif. Self-opening pocket-knife. No. 1,412,373; Apr. 11.
- Shields, John W. (See Silverman, J. L. and Shields.)
- Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. No. 1,409,596; Mar. 14.
- Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. No. 1,416,892; May 23.
- Shields, Muse A. (See Helden, John R., assignor.)
- Shields, Robert, Brooklyn, N. Y. Adjustable chute spring for typesetting machines. No. 1,403,450; Jan. 10.
- Shierk, Eli E. (See Stott, Frederick R. L. and Shierk.)
- Shiffer, Harry R., Brownstown, Pa. Device for opening cans. No. 1,409,250; Mar. 14.
- Shiffer, William S., and V. L. Zwally, Lancaster, Pa. Sled brake. No. 1,429,648; Sept. 19.
- Shifner, Roscoe B. (See Hermelink, H. Jr., and Shifner.)
- Shikusawa, Izumi, Chigusa Machi, Japan. Setting tacks in porcelain teeth. No. 1,427,237; Aug. 29.
- Shilepsky and Marshall. (See Marshall, Joseph B., assignor.)
- Shilrock, John G., Chicago, Ill. Composition for aluminum paint. No. 1,411,673; Apr. 4.
- Shimek, John A. (See Specht, Louise M., assignor.)
- Shimer, Herbert M., Philadelphia, Pa. Method and means for refining metals. No. 1,403,349; Jan. 10.
- Shimko, Stepan, Parnassus, Pa. Antislipping device. No. 1,433,660; Oct. 31.
- Shimmin, John T. (See Knight, F. P. and Shimmin.)
- Shimmin, John T., and C. E. Bushnell, Butte, Mont. Flotation apparatus. No. 1,402,099; Jan. 3.
- Shimon, Albert S., Chardon, Ohio. Mold-forming apparatus. No. 1,434,508; Nov. 7.
- Shindel, Harry F. (See Willson, F. and Shindel.)
- Shingler, Milford E., Ashville, Pa. Shovel. No. 1,411,195; Mar. 28.
- Shinn, George D., Russellville, Ark. Combination tool. No. 1,413,798; Apr. 25.
- Shinozaki, Matabei, Tokyo, Japan. Copying ink. No. 1,439,489; Dec. 19.
- Shipman, Abraham T., Honey Grove, Tex. Hand cotton-picking apparatus. No. 1,402,670; Jan. 3.
- Shipman, Abraham L., Springfield, Ill. Broom brace. No. 1,429,171; Sept. 12.
- Shipman, Joseph, Los Angeles, Calif. Apparatus for making photographic enlargements. No. 1,403,714; Jan. 17.
- Shipman, Lester E., New York, N. Y. Loose-leaf binder. No. 1,439,715; Dec. 26.
- Shipman, William P., assignor to Blaw-Knox Company, Pittsburgh, Pa. Welding apparatus. No. 1,403,648; Jan. 17.
- Shipman, William P., Pittsburgh, assignor to Blaw-Knox Company, Hoboken, Pa. Welding apparatus. No. 1,412,066; Apr. 11.
- Shipp, Charles E., Detroit, Tex. Oil heater for engines. No. 1,406,766; Feb. 14.
- Shipp, Charles E., Detroit, Tex. Protective runner for cotton-pickers' sacks. No. 1,435,880; Nov. 14.
- Shipp, Clarence C., Indianapolis, Ind. Making connections for ventilating box bases. No. 1,430,120; Sept. 26.
- Shippert, Warren A., Dixon, assignor to Burton-Page Company, Chicago, Ill. Milking machine. No. 1,405,166; Jan. 31.
- Shirek, Herbert M. (See Jakovleff, Alexis, assignor.)
- Shirk, Abner, Decatur, Ill. Wrench. No. 1,417,210; May 23.
- Shirk, Art J., and S. Cohen, assignors to A. S. Iserson, New York, N. Y. Stand and automatic switch for electric irons. No. 1,421,586; July 4.
- Shirk, Art J., and S. Cohen, assignors to A. S. Iserson, New York, N. Y. Electric press iron. No. 1,421,587; July 4.
- Shirk, Art J., and S. Cohen, assignors to A. S. Iserson, New York, N. Y. Electric press iron. No. 1,421,588; July 4.
- Shirk, Art J., and S. Cohen, assignors to A. S. Iserson, New York, N. Y. Electric press iron. No. 1,421,589; July 4.
- Shirk, Art J., and S. Cohen, assignors to A. S. Iserson, New York, N. Y. Stand and automatic switch for electric irons. No. 1,421,850; July 4.
- Shirk, Art J., and S. Cohen, assignors to A. S. Iserson, New York, N. Y. Electric press iron. No. 1,426,015; Aug. 15.
- Shirl, Arthur W., Milwaukee, Wis. Airplane control. No. 1,419,416; June 13.
- Shirley Brothers Company. (See Downer, Fred O., assignor.)
- Shirreffs, James R., Los Angeles, Calif. Limiting device for spot lights. No. 1,412,544; Apr. 11.
- Shively, Albert B., Laurel, Nebr. Hog-watering trough. No. 1,435,987; Nov. 21.
- Shively, Donald O., Houston, Tex. Safety appliance for street cars. No. 1,425,062; Aug. 8.
- Shively, Edward E., Detroit, Mich. Permutation lock. No. 1,437,561; Dec. 5.
- Shiverick, Myron D., assignor to Fine Wire Insulating Company, Inc., Albany, N. Y. Machine for applying insulation in liquid form to wire. No. 1,432,795; Oct. 24.
- Shivers, John K., Philadelphia, Pa. Railway crossing signal. No. 1,431,051; Oct. 3.
- Shivers, Paul F., Ludington, Mich., assignor to General Electric Company. Motor-operated control apparatus. No. 1,431,738; Oct. 10.
- Shlagel, Charles, Clara City, Minn. Grinding device. No. 1,428,497; Sept. 5.
- Shnable, Emile R., Wilmette, and J. R. Quinn, Chicago, Ill. Running gear. No. 1,431,699; Oct. 10.
- Shockey, Eli G., Sand Patch, Pa. Draft appliance. No. 1,417,112; May 23.
- Shockless Electric Corporation. (See Houchin, Alfred W., assignor.)
- Shockley, William E. (See Smith, A. P. O., and Shockley.)
- Shoe Hardware Company, The. (See Beck, Charles J., assignor.)
- Shoeld, Mark, assignor to Armour Fertilizer Works, Chicago, Ill. Production of potassium chloride. No. 1,402,973; Jan. 10.
- Shoemaker, George W. (See Miller, Robert H., assignor.)
- Shoemaker, Harvey, Wollaston, Mass. Crosshead. No. 1,436,915; Nov. 28.
- Shoemaker, John, Alpha, Mich. Folding chair. No. 1,440,248; Dec. 26.
- Shoemaker, Lee, Portland, Oreg. Umbrella lock. No. 1,428,810; Sept. 12.
- Shoemaker, Robert J., assignor to Leadzinc Company, Chicago, Ill. Lead-coating process. No. 1,405,167; Jan. 31.
- Shoemaker, Royal, Bourneville, Ohio. Ice creeper. No. 1,440,182; Dec. 26.
- Shoemaker, Thomas P., Bridgeton, assignor of one-half to C. H. Copeland, Portland, Oreg. Motor for automobile washing brushes. No. 1,433,160; Oct. 24.
- Shoenberg, Milton H., San Francisco, Calif., assignor to Majestic Electric Development Company. Automatic control of the circuits of electric heating apparatus, etc. No. 1,405,450; Feb. 7.

Alphabetical list of patentees—Continued.

- Shold, Siegfried, Mansfield, Ohio. Safety device. No. 1,430,410; Sept. 26.
- Shollenberger, Benjamin B., Marshalltown, Iowa. Sanitary closet. No. 1,415,719; May 9.
- Shomaker, Wesley P., Richmond, Va. Steering-apparatus attachment. No. 1,435,423; Nov. 14.
- Shook, Jacob W., Milton, Pa. Wrench. No. 1,413,495; Apr. 18.
- Shope Brick Company, The. (See Shope, David F., assignor.)
- Shope, C. L., et al. (See Dills, Philip L., assignor.)
- Shope, David F. (See Stedman, John F., assignor.)
- Shope, David F., Portland, Oreg., assignor to The Shope Brick Company. Brick-carrying vehicle. No. 1,424,741; Aug. 1.
- Shope, Frank L., Passaic, E. G. Hedges, Newark, and W. W. Heroy, Bloomfield, N. J. Flush-tank valve. No. 1,420,452; June 20.
- Shope, Frank L., Passaic, E. G. Hedges, Newark, and W. W. Heroy, Bloomfield, N. J. Flush valve. No. 1,439,268; Dec. 19.
- Shorday, Walter W., Lawndale, Pa. Valve. No. 1,418,482; June 6.
- Shorday, Walter W., Lawndale, Pa. Handle for paper containers. No. 1,420,453; June 20.
- Shore, Frank C., assignor of one-half to G. B. Arones, Minneapolis, Minn. Drill chuck. No. 1,415,720; May 9.
- Shore, William E., New York, N. Y. Air pump. No. 1,408,649; Mar. 7.
- Shorrocks, James, Darwen, England. Apparatus suitable for use in the drying of printed wall papers. No. 1,424,742; Aug. 1.
- Short, Charles A., Manila, P. I. Wrench. No. 1,430,694; Oct. 3.
- Short, Charles R., assignor to General Motors Corporation, Detroit, Mich. Hydrocarbon motor. No. 1,403,350; Jan. 10.
- Short, Charles R., assignor to General Motors Company, Detroit, Mich. Combined intake and exhaust manifold. No. 1,406,232; Feb. 14.
- Short, Charles R., assignor to General Motors Corporation, Detroit, Mich. Fuel-heating device for hydrocarbon motors. No. 1,431,335; Oct. 10.
- Short, Henry C., Southall, England. Portable stand for displaying garments. No. 1,426,225; Aug. 15.
- Short, Oliver C., et al. (See Brace, James P., assignor.)
- Short, Wilfrid M., Croydon, England. Appliance for playing an indoor or outdoor game. No. 1,404,149; Jan. 17.
- Shortell, William H., and F. L. Sutcliffe, West Haven, Conn., assignors to Millers Falls Company, Millers Falls, Mass. Impact tool. No. 1,427,556; Aug. 29.
- Shorter, Leo J. (See Cole, J. A., and Shorter.)
- Shorter, Willy B., Freedom, assignor to E. G. Evans, Hillsdale, Okla. Clutch control for Fordson tractors. No. 1,416,893; May 23.
- Short Manufacturing Company, The. (See Gail, Charles H., assignor.)
- Shotwell, James D., assignor to Shotwell Johnson Company, Minneapolis, Minn. Heating attachment for motor vehicles. No. 1,418,208; May 30.
- Shotwell Johnson Company. (See Shotwell, James D., assignor.)
- Shotwell Manufacturing Company, The. (See Beier, Frank J., assignor.)
- Shough, Philip J., New York, N. Y. Tire-chain tool. No. 1,435,881; Nov. 14.
- Shoup, Samuel R., Weehawken, N. J. Strip-feed device. No. 1,415,721; May 9.
- Shourds, Fred E., Holland, S. Dak. Hammer. No. 1,415,956; May 16.
- Shover, Lamar H., Milwaukee, Wis. Candy jar. No. 1,434,029; Oct. 31.
- Shover, Lamar H., Milwaukee, Wis. Candy jar. No. 1,438,615; Dec. 12.
- Shover, Lamar H., assignor to Milwaukee Reliance Boiler Works, Milwaukee, Wis. Lubricating device. No. 1,426,918; Aug. 22.
- Show, John H. (See Runey, C. F., and Show.)
- Showalter, William E., Huntingburg, Ind. Wheelbarrow. No. 1,422,893; July 18.
- Showers, Joseph R. (See Tindall, C. A., and Showers.)
- Shrader, James B., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupter. No. 1,433,747; Oct. 31.
- Straucher, Darius E., Atlantic, Iowa. Flower box. No. 1,433,043; Oct. 24.
- Straucher, Darius E., Atlantic, Iowa. Road sign. No. 1,439,982; Dec. 26.
- Shrecker, William R. (See Piper, J. R., and Shrecker.)
- Shreve, William B. (See Smith, Lonzo B., assignor.)
- Shrieves, Albert and H. E. Sutton Coldfield, England. Lifting jack. No. 1,421,590; July 4.
- Shrieves, Henry E. (See Shrieves, Albert and H. E.)
- Shrimpton, Raymond J., Exeter, assignor of one-half to Thomas O'Brien Limited, Liverpool, England. Till. No. 1,411,067; Mar. 28.
- Shriner, Moral O., assignor to S. A. Shriner, Niagara Falls, N. Y. Metallic furniture. No. 1,427,861; Sept. 5.
- Shriner, Salina A. (See Shriner, Moral O., assignor.)
- Shriver, David E. (See Royer, William B., assignor.)
- Shriver, Glenn R. (See Mow, George H., assignor.)
- Shriver, Harry T. (See Libby, Lewis L., assignor.)
- Shrodes, George H., Porterville, Calif. Artificial limb. No. 1,424,264; Aug. 1.
- Shryock, Lewis G., Clarendon, Ark. Stereopticon-slide carrier. No. 1,414,488; May 2.
- Shuford, Stephen W., Woodlawn, N. C. Weighing mechanism. No. 1,422,141; July 11.
- Shugart, Frederick R., Bakersfield, assignor of one-eighth to S. Winje, one-eighth to A. Simon, and one-eighth to G. A. Marchini, Placerville, Calif. Wood-working tool. No. 1,404,660; Jan. 24.
- Shukie, Stephen P., Westport, Conn. Soft-ball machine. No. 1,431,052; Oct. 3.
- Shuler, Edwin H., Lansing, and M. C. Shuler, Charlotte, Mich. Gas burner. No. 1,421,591; July 4.
- Shuler, Max C. (See Shuler, Edwin H. and M. C.)
- Shull, Albert V. (See Lanham, R. F., and Shull.)
- Shull, Louis E., and V. D. Sipes, Emmett, Kans. Spark arrester. No. 1,438,868; Dec. 12.
- Shull, Wasyl, Palmerton, Pa. Trunk. No. 1,408,400; Feb. 28.
- Shulman, Harry. (See Joerger, F., and Shulman.)
- Shulman, Harry, and F. Joerger, Brooklyn, N. Y. Nail-less paintbrush. No. 1,436,916; Nov. 28.
- Shults, Harry H., Gowanda, N. Y. Door hinge. No. 1,410,840; Mar. 28.
- Shultz, Albert B., Buffalo, N. Y. Shock absorber. No. 1,426,115; Aug. 15.
- Shultz, Charles A., Monticello, Ind., assignor to United Cereal & Grain Separator Co. of Indiana. Feed regulator. No. 1,403,649; Jan. 17.
- Shumaker, Charles F., Silver Creek, N. Y. Jarring machine. No. 1,436,295; Nov. 21.
- Shumaker, James J., Cleveland, Ohio. Container. No. 1,425,908; Aug. 15.
- Shuman, Arno. (See Cox, W., and Shuman.)
- Shuman, Frank, deceased; Y. J. Shuman and C. H. Dunker, administrators, assignors to L. J. Kolb, Philadelphia, Pa., trading as Safetee Glass Company. Danger signal. No. 1,420,345; June 20.
- Shuman, Y. Josephine, et al., administrators. (See Shuman, Frank.)
- Shumilo, Egnaty. (See Hemschewski, Albert, assignor.)
- Shumway, Herbert H., jr. (See Kelly, C. J., and Shumway, jr.)
- Shupe, Abram P., East Cleveland, Ohio. Towel-holding device. No. 1,404,240; Jan. 24.
- Shurick, Edward P., Knoxville, Tenn. Combined letter and envelope stuffer or the like. No. 1,417,211; May 23.
- Shurman, Joseph S., Unity Station, Pa. Rerailor for street cars. No. 1,404,661; Jan. 24.
- Shur-On Optical Co. (See Leytham, Thomas, assignor.)
- Shur-On Optical Company, Inc. (See McDonell, William E., assignor.)
- Shurtleff, Wilfred, assignor to Moline Heat, Moline, Ill. Ventilating unit. No. 1,437,866; Dec. 5.
- Shuster, Andy, San Antonio, Tex. Automobile turntable. No. 1,426,679; Aug. 22.
- Shute, Ella M. (See Childs, Irene M., assignor.)
- Shutoff, Michael, Freehold, N. J. Animal trap. No. 1,404,486; Jan. 24.
- Shutter, Abram L., West Haven, assignor to James Graham & Co., New Haven, Conn. Hood fastener. No. 1,435,668; Nov. 14.
- Sibbald, John W., New York, N. Y. Golf tee. No. 1,413,496; Apr. 18.
- Sibbett, George E. (See Penner, Abram G., assignor.)
- Sibert, John G., Sioux City, Iowa. Laundry-counting device. No. 1,413,295; Apr. 18.
- Sibley, Amos H., Shipbottom, and G. L. Van Allen, Newark, N. J., assignors to General Dental Mfg. Co. Tube tooth and crown. No. 1,423,623; July 25.
- Sibley, Edwin J., Woodhaven, N. Y. Friction casement adjuster. No. 1,412,199; Apr. 11.
- Sibley, Frederick H., Lawrence, Kans., assignor to Maximum Power Co., Wilmington, Del. Pumping device for pumping oil wells. No. 1,414,158; Apr. 25.
- Sibley, Paul, Worcester, Mass. Multipolar switch. No. 1,417,576; May 30.
- Sibley, Robert L. (See Bedford, C. W., and Sibley.)
- Sibson, Walter W. (See Allsop, T., and Sibson.)
- Sibson & Stein, Inc. (See Branson, Thomas, assignor.)
- Sicard, Hugh C., Buffalo, assignor to United States Ferro Alloys Corporation, New York, N. Y. Preserving electric-furnace linings. No. 1,416,584; May 16.
- Sichel, John, et al. (See Kolb, Joseph F., assignor.)
- Sickel, John H., Spring Lake, N. J. Railway signal torpedo. No. 1,438,063; Dec. 5.
- Sickles, Frank W. (See Perkins, J. L., Sickles, and Oakley.)
- Siddall, Frank. (See Dommett, Charles H., assignor.)
- Siddley, John D., Crackley, Kenilworth, England. Wheel for motor road vehicles. No. 1,439,269; Dec. 19.
- Sidon, Joseph, Joliet, Ill. Hack saw. No. 1,406,422; Feb. 14.
- Sidebotham, Melvin H. (See La Bombard, L. E., and Sidebotham.)
- Siderits, Thomas, Milwaukee, Wis. Wall construction. No. 1,438,340; Dec. 12.
- Sides, Wilson W., assignor to J. W. Patterson, Kearney, Nebr. Hydraulic clutch. No. 1,406,292; Feb. 14.
- Sidle, Earle P., Kansas City, Mo. Kettle-lid holder. No. 1,408,410; Feb. 28.
- Sidler, August, Zurich, Switzerland. Producing electrical insulating objects. No. 1,430,266; Sept. 26.
- Sidwell, Mahlon A., Los Angeles, Calif. Reversing machine. No. 1,421,104; June 27.

- Sieben, Henry, Kansas City, Mo. Washing machine. No. 1,411,750; Apr. 4.
- Sieben, Henry, Kansas City, Mo. Washing-machine applicator. No. 1,412,714; Apr. 11.
- Sieben, Henry, Kansas City, Mo. Gearing. No. 1,423,037; July 18.
- Siebenmorgen, William, Westfield, N. J., assignor to Corliss Carbon Company. Device for attaching conductors to brushes. No. 1,433,686; Oct. 31.
- Siebenmorgen, William, Westfield, N. J., assignor to Corliss Carbon Company, Incorporated, Bradford, Pa. Device for attaching conductors to brushes. No. 1,433,687; Oct. 31.
- Sieber, Gottwalt, Plauen, Germany. Securing the end windings of bobbins. No. 1,411,460; Apr. 4.
- Sieber, Gottwalt, Plauen, Germany. Device for driving the scallop mechanism in embroidering machines. No. 1,416,894; May 23.
- Sieber, Gottwalt, Plauen, Germany. Shuttle embroidering machine. No. 1,419,317; June 13.
- Sieber, Gottwalt, Plauen, Saxony. Thread-changing device in embroidery machines. No. 1,423,160; July 18.
- Sieber Products Mfg. Co. (See Rubin, Adolph, assignor.)
- Siebert, Adolph G. (See Kropf, Walter R., assignor.)
- Siebert, Lester, San Francisco, Calif. Safety switch mechanism. No. 1,435,748; Nov. 14.
- Siebert, Otto. (See Schöner, B., and Siebert.)
- Siebert, William A., La Grange, Ill. Water heater. No. 1,439,490; Dec. 19.
- Siefertson, Richard, Menasha, Minn. Grinding machine. No. 1,412,715; Apr. 11.
- Siegel, Ernest, New York, N. Y., assignor to Axle Lock Corporation. Vehicle lock. No. 1,434,966; Nov. 7.
- Siegel, Joseph, assignor to Frolaset Corset Company, Detroit, Mich. Belt corset. No. 1,430,121; Sept. 26.
- Siegel, Louis R., Cleveland, Ohio. Dental crown remover. No. 1,424,527; Aug. 1.
- Siegfried, Joseph, Lafayette, assignor of one-fourth to J. Held, West Lafayette, and one-fourth to C. Held, La Fayette, Ind. Window. No. 1,423,629; July 25.
- Siemann, Fredrick, San Francisco, Calif., and E. J. Cuppage, Fort Lipton, Colo. Ladder attachment. No. 1,435,988; Nov. 21.
- Siembab, John, Grand Rapids, Mich. Pulley attachment for vehicle-supporting wheels. No. 1,411,751; Apr. 4.
- Siemens, Fred W. (See Ryon, Edward A., assignor.)
- Siemens & Halske, Aktiengesellschaft. (See Kaminski, Paul, assignor.)
- Siemens & Halske, Aktiengesellschaft. (See Kardaetz, Paul, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Mansel, Paul, assignor.)
- Siemens-Schuckert-Werke G. m. b. H. (See Schenkel, M., and Jüst, assignors.)
- Siemens-Schuckertwerke G. m. b. H. (See Schenkel, Moritz, assignor.)
- Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Hüls, Friedrich, assignor.)
- Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Meller, Karl, assignor.)
- Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Mollier, Walther, assignor.)
- Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Thallmayer, Ludwig, assignor.)
- Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Weber, Louis, assignor.)
- Simensen, O., and A. Colban, Christiania, Norway. Temporary binder. No. 1,439,716; Dec. 26.
- Siemens-Marshall Electric Company. (See Biller, David, assignor.)
- Siems, Fred. (See Hillmann, C., and Siems.)
- Siemens, Jürgen, assignor to B. C. Empfield, Broken Bow, Nebr. Grain-car door. No. 1,421,592; July 4.
- Siepmann, Adolf, and A. Rädemacher, Essen, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Typewriter mechanism. No. 1,405,722; Feb. 7.
- Sierad, Milton. (See Button, G. W., and Sierad.)
- Siert, Alvin H. (See Reed, Frank J., assignor.)
- Sieurin, Sven E. Höganäs, assignor to Höganäs-Billeholms Aktiebolag, Helsingborg, Sweden. Producing aluminum-chloride crystals. No. 1,403,061; Jan. 10.
- Sleeking, Martinus, Staten Island, N. Y., assignor to Flying Eagle Company, Inc. Mobile figure. No. 1,419,694; June 13.
- Slewer, Henry W., Danville, Ill. Heating stove. No. 1,435,424; Nov. 14.
- Sievers, John F. (See Larson, J. M., and Sievers.)
- Sievert, Christ, Calio, N. Dak. Harness hanger. No. 1,429,784; Sept. 19.
- Slewiorek, John, Geneva, Ohio. Brick conveyer. No. 1,407,173; Feb. 21.
- Sigal, Solomon, Brooklyn, N. Y. Malted machine. No. 1,418,099; May 30.
- Signoff, Moses, Hattiesburg, Miss. Shoe-heel reinforcement. No. 1,402,671; Jan. 3.
- Signature Company. (See Johnson, Frank A., assignor.)
- Signell, Karl I., West New York, N. J. Nailing machine. No. 1,409,419; Mar. 14.
- Signode System, Inc. (See Kux, Albert S., assignor.)
- Sigond, Marguerite, administratrix. (See Sigond, Paul G.)
- Sigond, Paul G., deceased, San Francisco, Calif.; M. Sigond, administratrix. Electromagnetic power anvil block for riveting. No. 1,432,362; Oct. 17.
- Sigorszky, Louis J., Easton, Pa. Hair cutter. No. 1,426,226; Aug. 15.
- Sikes, Washington S., Edgar, Fla. Car-door lock. No. 1,425,799; Aug. 15.
- Silber, Israel, Chicago, Ill. Gladstone bag. No. 1,434,967; Nov. 7.
- Silberman, Joseph, and L. Kahn, Baltimore, Md. Necktie. No. 1,402,903; Jan. 10.
- Silent Drama Syndicate, a Trusteeship. (See Brown, Lloyd, assignor.)
- Silent Motor Corporation, The. (See Wilkinson, E. E., and Aronson, assignors.)
- Silk, William M. (See O'Bryan, L. T., Silk, and Kirk.)
- Sillett, Harry C., Kansas City, Mo. Hydrocarbon-gas generator and burner. No. 1,427,129; Aug. 29.
- Silsbee, Joseph L., Salt Lake City, Utah. Recovering potassium chloride from brine. No. 1,432,796; Oct. 24.
- Silva, Antone J., Milton, Calif. Implement-steering attachment for tractors. No. 1,416,939; May 23.
- Silver, Myer S., Allston, Mass. Stocking protector. No. 1,436,463; Nov. 21.
- Silver, Walter H., assignor to Deere & Company, Moline, Ill. Mounting colters. No. 1,427,649; Aug. 29.
- Silverberg, Charles B. (See Probstel, Philip, assignor.)
- Silverman, Charles, Providence, R. I. Lingerie clasp. No. 1,416,758; May 23.
- Silverman, Harry, Brooklyn, and M. L. Golieb, New York, N. Y. Fastening device for necklaces, etc. No. 1,410,770; Mar. 28.
- Silverman, Harry A., New York, N. Y. Heater unit. No. 1,423,742; July 25.
- Silverman, Joseph L., Brooklyn, and J. W. Shields, West Brighton, N. Y. Locking device for water-tight doors. No. 1,416,308; May 16.
- Silverman, Mortimer, Boston, Mass. Container for fibrous material. No. 1,415,722; May 9.
- Silverson, Nathan, New York, N. Y. Door-operating apparatus. No. 1,405,691; Feb. 7.
- Silverstein, Morris L., Boston, Mass. Emergency-door lock and utility instrument. No. 1,434,411; Nov. 7.
- Silverthorne, Luther. (See Rice, James B., assignor.)
- Silvis, Richard S., and T. Evers, Rock Island, Ill. Automatic feed. No. 1,427,027; Aug. 22.
- Sima, Frank, Whitestone, N. Y. Retaining device for window panes. No. 1,413,497; Apr. 18.
- Simard, Epiphane P., Waltham, Mass. Rail grinder. No. 1,405,019; Jan. 31.
- Simcox, Emery S., and C. L. Waters, Coshocton, Ohio. Paper supporting and dispensing bracket. No. 1,437,157; Nov. 28.
- Simenowsky, Louis, Milwaukee, Wis. Bottle closure. No. 1,408,910; Mar. 7.
- Simens & Halske A.-G. (See Langer, Max, assignor.)
- Simensen, Hans, Sutton, N. Dak. Bottle holder and carrier. No. 1,414,219; Apr. 25.
- Simeon, Peter P., Sioux City, Iowa. Tricycle. No. 1,424,684; Aug. 1.
- Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,416,076; May 16.
- Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,431,986; Oct. 17.
- Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,435,262; Nov. 14.
- Simmons, Albert E., Eureka, Calif. Screw driver. No. 1,405,723; Feb. 7.
- Simmons, Albert H. (See Moffatt, J. R., and Simmons.)
- Simmons, Bert G., assignor to Johnson & Johnson, New Brunswick, N. J. Dental pellet. No. 1,438,064; Dec. 5.
- Simmons, Bowie G. and H. D., Lexie, Miss., assignor of one-fourth to L. A. Mornhinweg, Bogalusa, La. Excavating mechanism. No. 1,404,064; Jan. 17.
- Simmons, Charles, Los Angeles, Calif. Tape-line holder. No. 1,407,429; Feb. 21.
- Simmons Company. (See Bayer, Matthew F., assignor.)
- Simmons Company. (See Gail, John F., assignor.)
- Simmons Company. (See Kusterle, Frank, assignor.)
- Simmons Company. (See Travis, Don C., assignor.)
- Simmons, Dale W., Bowling Green, Ohio. Automobile lock. No. 1,435,560; Nov. 14.
- Simmons, Frank L., assignor to The Taft-Pierce Manufacturing Company, Woonsocket, R. I. Switch for magnetic chucks. No. 1,402,802; Jan. 10.
- Simmons, Frank L., assignor to The Taft-Pierce Manufacturing Company, Woonsocket, R. I. Bipolar magnetic chuck. No. 1,415,723; May 9.
- Simmons, Frank L., assignor to The Taft-Pierce Manufacturing Co., Woonsocket, R. I. Aluminum body for magnetic chucks. No. 1,433,568; Oct. 31.
- Simmons, Frank L., Millbury, Mass., assignor to The Taft-Pierce Manufacturing Company, Woonsocket, R. I. Magnetic chuck. No. 1,435,946; Nov. 21.
- Simmons Hardware Company. (See Hawkins, Earl, assignor.)
- Simmons, Harlon D. (See Simmons, Bowie G. and H. D.)
- Simmons, Howard B., Toledo, Ohio. Carburetor. No. 1,418,100; May 30.
- Simmons, John W., Cleveland, Ohio. Automobile bumper. No. 1,433,661; Oct. 31.
- Simmons, L. Verna, Grand Rapids, Mich. Undergarment. No. 1,432,266; Oct. 17.

Alphabetical list of patentees—Continued.

- Simmons, Lee H., Goldsboro, assignor to Simmons Manufacturing Company, Wilmington, N. C. Center rest bar for boiler grates. No. 1,416,131; May 16.
- Simmons, Lee H., Goldsboro, assignor to Simmons Manufacturing Company, Wilmington, N. C. Grate. No. 1,434,847; Nov. 7.
- Simmons, Leon W., Forest Lake, Minn. Spring wheel. No. 1,425,706; Aug. 15.
- Simmons, Lloyd S., Sonoma, Calif. Powder divider. No. 1,406,504; Feb. 14.
- Simmons Manufacturing Company. (See Simmons, Lee H., assignor.)
- Simmons Method-Hob Company. (See Simmons, Oliver G., assignor.)
- Simmons, Oliver G., assignor to Simmons Method-Hob Company, Philadelphia, Pa. Generation of convolute lines in hobbing cutters and the like. No. 1,426,680; Aug. 22.
- Simmons, Parker T., and R. I. Rhodes, North Attleboro, Mass. Spring-hinge construction. No. 1,416,895; May 23.
- Simmons, Peter C., Buffalo, Minn. Vehicle support. No. 1,416,896; May 23.
- Simmons, R. F., Company. (See Smith, Ezra S., assignor.)
- Simmons, Ralph C. (See Bradford, C. M., and Simmons.)
- Simmons, Ralph C. (See Seely, T. H., and Simmons.)
- Simmons, Ralph C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-making machine. No. 1,407,337; Feb. 21.
- Simmons, Ralph C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Blank-handling mechanism. No. 1,423,630; July 25.
- Simmons, Ralph C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-breasting machine. No. 1,423,743; July 25.
- Simmons, Ralph C., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heal-building machine. No. 1,430,032; Sept. 26.
- Simmons, William, New York, N. Y. Antislip attachment for looms. No. 1,411,941; Apr. 4.
- Simon, Albert, et al. (See Shugart, Frederick R., assignor.)
- Simon, Arthur, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controller for alternating-current motors. No. 1,413,544; Apr. 18.
- Simon, Charles L., Cedar Rapids, Iowa. Headlight shield. No. 1,439,193; Dec. 19.
- Simon, Henry, Limited. (See Bentham, Cecil, assignor.)
- Simon, Henry Limited. (See Kinimouth, Colin P., assignor.)
- Simon, John, Gardena, Calif. Pull belt for stalled automobiles. No. 1,430,471; Sept. 26.
- Simon, John H. (See Simon, John W. and J. H.)
- Simon, John W. and J. H., Hopewell, Pa. Pig mold. No. 1,410,417; Mar. 21.
- Simon, Joseph, Halifax, Nova Scotia, Canada. Anti-skidding attachment for tire chains. No. 1,407,227; Feb. 21.
- Simon, Maurice, St. Louis, Mo. Electric heater. No. 1,416,897; May 23.
- Simon, Meyer A., St. Louis, Mo. Combination carburetor choker and switch mechanism. No. 1,428,812; Sept. 12.
- Simon, Meyer A., St. Louis, Mo. Electrically-heated intake manifold. No. 1,435,989; Nov. 21.
- Simon, Paul, Clason Point Park, N. Y. Amusement-park device. No. 1,426,418; Aug. 22.
- Simon, Peter, Elizabeth, N. J. Phonograph attachment. No. 1,418,101; May 30.
- Simon, Peter A., assignor of one-half to F. Daubner, Detroit, Mich. Photographic-printing frame. No. 1,434,455; Nov. 7.
- Simon, Stephen, and W. O'Neill, New Haven, Conn. Curtain fixture. No. 1,407,823; Feb. 28.
- Simon, Walter B., Clayton, Mo., assignor to Trusbin Manufacturing Company, St. Louis, Mo. Container and stand. No. 1,408,539; Mar. 7.
- Simonds, Chauncey A. (See Dean, C. V., and Simonds.)
- Simonds, George D., Newark, N. J. Aeroplane. No. 1,403,715; Jan. 17.
- Simonds Manufacturing Company. (See Remington, Alfred M., assignor.)
- Simondes, Bruno, Mannheim, assignor to The Firm: Dr. Hans Cruse & Co., Berlin, Germany. Burner for heating purposes. No. 1,404,241; Jan. 24.
- Simons, Abraham, New York, N. Y. Diamond die and making same. No. 1,420,223; June 20.
- Simons, Abraham, New York, N. Y. Making diamond dies. No. 1,420,224; June 20.
- Simons, Andrew, Grand Haven, Mich. Refrigerator. No. 1,429,649; Sept. 19.
- Simons, Edward E., assignor, by mesne assignments, to Convertible Clock Case Company, Inc., Allentown, Pa. Clock mounting. No. 1,420,583; June 20.
- Simons, Ernest D., Waterbury, Conn., assignor to Scoville Manufacturing Company. Stud for snap fasteners. No. 1,404,552; Jan. 24.
- Simons, George. (See Bartholomew, W., and Simons.)
- Simons, Joseph, Los Angeles, Calif. Loading and unloading machine. No. 1,426,116; Aug. 15.
- Simons, Wm., and Company, Limited. (See Brown, William and W., assignors.)
- Simonson, Elmer L. (See Estep, W. G., Hamilton, and Simonson.)
- Simonton, Edmund H., Gary, S. Dak. Pneumatic-tire covering. No. 1,414,050; Apr. 25.
- Simonton, Frank H., assignor of fifty-one per cent to A. A. Smith, New York, N. Y. Coffee-brewing apparatus. No. 1,409,123; Mar. 7.
- Simpers, Robert H. (See Corbe, Joseph, assignor.)
- Simplex Metal Feeder Company. (See Zenke, Henry C., assignor.)
- Simplex Paper Accessories Co. (See Alexay, Adalbert, assignor.)
- Simplex Paper Accessories Co. (See Horwitt, Paul H., assignor.)
- Simplex Rubber Company. (See Quinn, Gilbert F., assignor.)
- Simplex Shoe Machinery Company. (See Wheeler, John L., assignor.)
- Simplex Steel Products Company. (See Burson, Harry H., assignor.)
- Simplex Steel Stamping & Manufacturing Company. (See Tiffany, Hiero G., assignor.)
- Simplex Wire Wheel Company. (See Van Meter, Morton, assignor.)
- Simpson, Arthur M. (See Simpson, George N. and A. M.)
- Simpson, Arthur M. (See Simpson, George N., A. M., and W. H.)
- Simpson, Charlie F., Martha, Okla. Cotton gin. No. 1,406,094; Feb. 7.
- Simpson, Frank W., New York, N. Y. Traffic controlling and regulating system for street crossings. No. 1,433,487; Oct. 24.
- Simpson, Frederick C., Pretoria, Transvaal, South Africa. Soap or the like. No. 1,408,650; Mar. 7.
- Simpson, George L., Santa Ana, Calif. Nonskid sectional tire tread. No. 1,403,452; Jan. 10.
- Simpson, George N., Chicago, Ill. Cylinder construction. No. 1,402,452; Jan. 3.
- Simpson, George N. and A. M., Chicago, Ill. Car dump. No. 1,412,030; Apr. 4.
- Simpson, George N., A. M., and W. H., Chicago, Ill. Drawbar. No. 1,421,032; June 27.
- Simpson, Glenn L., Wiley, Colo. Safety latch for motor-vehicle doors. No. 1,410,841; Mar. 28.
- Simpson, Guy B., Venetia, Pa. Rim expander. No. 1,433,421; Oct. 24.
- Simpson, Harlowe M., Fort Morgan, Colo. Air filter for bottles. No. 1,436,917; Nov. 28.
- Simpson, Herbert S., Chicago, Ill. Separator screen. No. 1,431,987; Oct. 17.
- Simpson, Hiram R., San Francisco, Calif. Depressible platform. No. 1,435,087; Nov. 7.
- Simpson, James P., New York, N. Y. Piston packing. No. 1,417,355; May 23.
- Simpson, John D. N., Spartanburg, S. C. Automatic automobile headlamp. No. 1,418,982; June 6.
- Simpson, John M. (See Jones, Edward S., assignor.)
- Simpson, John T., Newark, N. J. Concrete building. No. 1,400,251; Mar. 14.
- Simpson, John T., Newark, N. J. Building construction. No. 1,423,161; July 18.
- Simpson, John T., Newark, N. J. Tightener. No. 1,423,162; July 18.
- Simpson, John T., Newark, N. J. Deformed reinforcing bar. No. 1,423,163; July 18.
- Simpson, John T., Newark, N. J. Making reinforced concrete structures. No. 1,428,401; Sept. 5.
- Simpson, Leon G., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Lens-grinding machine. No. 1,415,613; May 9.
- Simpson, Leslie H., Springfield, Ill. Armrest. No. 1,407,174; Feb. 21.
- Simpson-Peck Mfg. Co. (See Moran, F. J., and Peck, assignors.)
- Simpson, Robert D., assignor to F. H. Angell, deceased, Columbus, Ohio; S. A. Angell, executrix. Warehouse truck. No. 1,432,267; Oct. 17.
- Simpson, Robert J., Athol, Mass. Pocket tape. No. 1,415,489; May 9.
- Simpson, Rufus A., Oakland, Calif. Service butter cutter. No. 1,434,919; Nov. 7.
- Simpson, Rufus A., Oakland, Calif. Butter-cutting machine. No. 1,434,920; Nov. 7.
- Simpson, Sumner, assignor to The Raybestos Co., Bridgeport, Conn. Brake lining and making same. No. 1,414,378; May 2.
- Simpson, Thomas H. (See Waterbor, E. T., and Simpson.)
- Simpson, Thomas H., Detroit, Mich. Foot accelerator. No. 1,439,194; Dec. 19.
- Simpson, Walter H. (See Simpson, George N., A. M., and W. H.)
- Simpson, William E. (See Bee, W. E., and Simpson.)
- Simpson, William E., assignor to Palmer-Bee Company, Detroit, Mich. Conveyor and mold separator. No. 1,424,947; Aug. 8.
- Simpson, William E., assignor to Palmer-Bee Company, Detroit, Mich. Trolley. No. 1,428,613; Sept. 12.
- Simpson, William E., assignor to Palmer-Bee Company, Detroit, Mich. Reduction gearing. No. 1,432,090; Oct. 17.
- Simpson, William K., East Orange, N. J., assignor to Hoffman Specialty Company, Waterbury, Conn. Vapor heating system. No. 1,408,478; Mar. 7.
- Simpson, William P. (See McLain, Wade H., assignor.)

- Simpson, William P., Hobsonville, Auckland, New Zealand. Safety lifting hook. No. 1,409,068; Mar. 7.
- Simpson, William W., Sewickley, Pa. Displaying collapsible tubes. No. 1,434,921; Nov. 7.
- Sims, Jacob, Brooklyn, N. Y. Hand bag. No. 1,406,505; Feb. 14.
- Sims, Jonas, Trenton, N. J. Toilet article. No. 1,420,766; June 27.
- Sims, Milford R., Saunemin, Ill. Cultivator attachment. No. 1,421,593; July 4.
- Shins, Vera I., Sioux City, Iowa. Nursing bottle. No. 1,423,038; July 18.
- Sinclair, Alexander B., South Hadley Falls, assignor to Sleeper & Hartley, Inc., Worcester, Mass. Spring-coiling machine. No. 1,407,891; Feb. 28.
- Sinclair, Alfred C., assignor to Sinclair Engine Corporation, Indianapolis, Ind. Internal-combustion engine. No. 1,431,188; Oct. 10.
- Sinclair, Alfred J., Dayton, Ohio. Clarinet barrel. No. 1,416,898; May 23.
- Sinclair, Archibald N., Honolulu, Hawaii. X-ray-film mount. No. 1,410,130; Mar. 21.
- Sinclair, Arnold P., New York, N. Y. Feeding apparatus for pulverized material. No. 1,402,184; Jan. 3.
- Sinclair Engine Corporation. (See Sinclair, Alfred C., assignor.)
- Sinclair, George K., Louisville, Ky. Printing-press attachment. No. 1,418,102; May 30.
- Sinclair, John, et al. (See Welch, James G., assignor.)
- Sinclair Molitor Corporation. (See Neuteboom, Boudewijn B., assignor.)
- Sinclair Refining Company. (See Isom, E. W., and Bell, assignors.)
- Sinclair, Thomas C., Cadnam, England. Sighting apparatus for use with aircraft guns. No. 1,404,662; Jan. 24.
- Sinclair, William H., Berkeley, Calif., assignor to Manifold Impression Corporation, Carson City, Nev. Ribbon attachment especially adapted for typewriters. No. 1,420,874; June 27.
- Sinclair, William H., Berkeley, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Typewriter ribbon especially adapted for manifold. No. 1,433,974; Oct. 31.
- Sincovitz, Victor, Pueblo, Colo. Automatic rail feed. No. 1,408,411; Feb. 28.
- Sinding-Larsen, Alf, Vestre Aker, near Christiania, Norway. Production of iron sponge from iron ore according to the Dry Reduction Process. No. 1,433,854; Oct. 31.
- Singer Bros. & Company. (See Singer, Oscar L., assignor.)
- Singer, Frank K., Pittsburgh, Pa. Conveying machine. No. 1,414,220; Apr. 25.
- Singer, Louis M., Toronto, Ontario, Canada. Bumper. No. 1,419,318; June 13.
- Singer, Louis M., Toronto, Ontario, Canada. Vehicle bumper. No. 1,419,417; June 13.
- Singer Manufacturing Company, The. (See Abercrombie, Charles M., assignor.)
- Singer Manufacturing Company, The. (See Allen, Edward B., assignor.) (Reissue.)
- Singer Manufacturing Company, The. (See Barron, William L., assignor.)
- Singer Manufacturing Company, The. (See Becker, Rudolph, assignor.)
- Singer Manufacturing Company, The. (See Brown, Charles W., assignor.)
- Singer Manufacturing Company, The. (See Card, Frederic M., assignor.)
- Singer Manufacturing Company, The. (See Corral, H., and Stevens, assignors.)
- Singer Manufacturing Company, The. (See De Leeuw, Adolph L., assignor.)
- Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)
- Singer Manufacturing Company, The. (See Eames, G. M., and Jacques, assignors.)
- Singer Manufacturing Company, The. (See Eames, George M., assignor.)
- Singer Manufacturing Company, The. (See Fifield, Albert F., assignor.)
- Singer Manufacturing Company, The. (See Gatchell, George S., assignor.)
- Singer Manufacturing Company, The. (See Grieb, Alfred, assignor.)
- Singer Manufacturing Company, The. (See Habbert, E. H. A., and Stone, assignors.)
- Singer Manufacturing Company, The. (See Harmon, Frank L., assignor.)
- Singer Manufacturing Company, The. (See Hemleb, Martin, assignor.)
- Singer Manufacturing Company, The. (See Herr, Park A., assignor.)
- Singer Manufacturing Company, The. (See Illeb, Peter, assignor.)
- Singer Manufacturing Company, The. (See Horton, Charles M., assignor.)
- Singer Manufacturing Company, The. (See Jacques, George W., assignor.)
- Singer Manufacturing Company, The. (See Karle, John D., assignor.)
- Singer Manufacturing Company, The. (See Lucy, Calvin H., assignor.)
- Singer Manufacturing Company, The. (See Molyneux, George E., assignor.)
- Singer Manufacturing Company, The. (See Noble, Donald, assignor.)
- Singer Manufacturing Company, The. (See Ostrom, F. W., and Webb, assignors.)
- Singer Manufacturing Company, The. (See Ringe, John C., assignor.)
- Singer Manufacturing Company, The. (See Ströbeck, Frans T., assignor.)
- Singer Manufacturing Company, The. (See Thomas, C. W., and Somers, assignors.)
- Singer Manufacturing Company, The. (See Thomas, Carlyle W., assignor.)
- Singer Manufacturing Company, The. (See Webb, Irving F., assignor.)
- Singer Manufacturing Company, The. (See Woelfel, G., and Hopf, assignors.)
- Singer, Nathan, Newark, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Treating bristles. No. 1,412,755; Apr. 11.
- Singer, Oscar L., Chicago, Ill., assignor to Singer Bros. & Company. Traveler's hand bag or satchel. No. 1,430,597; Oct. 3.
- Singh, Delph, Sydney, New South Wales, Australia. Rotary-type brick and briquetting press. No. 1,408,310; Feb. 28.
- Singler, Albert A., Denver, Colo. Phonograph cabinet. No. 1,414,379; May 2.
- Singletary, Lee. (See Leon, C. S., and Chupas, assignors.)
- Singmaster, James A., and F. G. Breyer, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Manufacture of lithopone. No. 1,411,646; Apr. 4.
- Singmaster, James A., and F. G. Breyer, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Apparatus for manufacturing lithopone. No. 1,411,647; Apr. 4.
- Singmaster, James A., F. G. Breyer, Palmerton, and C. W. Farber, Bowmanstown, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Manufacture of lithopone. No. 1,411,648; Apr. 4.
- Singmaster, James A., and F. G. Breyer, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Manufacture of lithopone. No. 1,414,793; May 2.
- Sinha, Ardhendu B., Muzaffarpur, British India. Wagon seal. No. 1,421,033; June 27.
- Sinkwitz, Rudolf, Copitz, assignor to W. Kaufmann, Dresden-A, Saxony, Germany. Device for throwing washing and reeling spooled artificial silk. No. 1,427,238; Aug. 29.
- Sinnicks, Frank S., et al. (See Fredrick, Hugo E., assignor.)
- Sinnicks, Frank S., et al. (See Fredrick, Hugo E. J., assignor.)
- Sinning, John L. (See Fellmann, G. A., and Sinning.)
- Sintering Machinery Corporation. (See Knox, John, assignor.)
- Sintering Machinery Corporation. (See Stehl, Henry J., assignor.)
- Sipe, Martin E., assignor to Seal-Tite Piston Ring Co., Minneapolis, Minn. Piston ring. No. 1,427,975; Sept. 5.
- Sipes, Van D. (See Shull, L. E., and Sipes.)
- Sipple, Alvie, Whitney, Oreg. Saw guide. No. 1,430,762; Oct. 3.
- Sirch, Charles W., Los Angeles, Calif. Vacuum-cleaned filter. No. 1,408,228; Feb. 28.
- Sirch, Charles W., Los Angeles, Calif. Purifying liquids. No. 1,416,899; May 23.
- Siroi, Harry. (See Siroi, Hyman and II.)
- Siroi, Hyman and II., New York, N. Y. Automatic pocket fan. No. 1,412,576; Apr. 11.
- Sirouct, René, Issy les Moulineaux, France. Mazout burner of the combustion-under-pressure type for steam boilers. No. 1,414,099; Apr. 25.
- Sisbower, George F., Bayside, and L. E. Pittoni, New York, assignors to New York Couch Bed Company, Long Island City, N. Y. Folding couch. No. 1,414,051; Apr. 25.
- Sisbower, George F., Flushing, and L. E. Pittoni, New York, assignors to Manhattan-Rome Company, Branch of Rome Metallic Bedstead Co., Long Island City, N. Y. Convertible bed. No. 1,419,319; June 13.
- Sisson, Vinton E. (See Truman, P. H., and Sisson.)
- Sisson, Vinton E., Chicago, Ill., assignor to W. P. Murphy, New York, N. Y. Drop-end gondola car. No. 1,407,824; Feb. 28.
- Sisson, Vinton E., Chicago, Ill., assignor to W. P. Murphy, New York, N. Y. End reinforcement for railway cars. No. 1,428,614; Sept. 12.
- Sisson, Vinton E., Chicago, Ill., assignor to W. E. Wine, Toledo, Ohio. Ventilator for cars. No. 1,439,136; Dec. 19.
- Sisson, Vinton E., assignor to W. P. Murphy, Chicago, Ill. Metal end for freight cars. No. 1,439,195; Dec. 19.
- Sisson, Vinton E., Chicago, Ill., and A. H. Feters, Omaha, Neb., assignors to W. P. Murphy, Chicago, Ill. Gondola car. No. 1,411,940; Apr. 4.
- Siverson, Christian, West Duluth, Minn. Mold. No. 1,430,763; Oct. 3.

Alphabetical list of patentees—Continued.

- Sivian, Leon J., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Modulating method and system. No. 1,439,134; Dec. 19.
- Six, Eleuthere, Milton, Pa., assignor to Susquehanna Silk Mills, New York, N. Y. Self-threading thread-tension device for shuttles. No. 1,436,783; Nov. 28.
- Six, Eleuthere, Milton, Pa., assignor to Susquehanna Silk Mills, New York, N. Y. Self-threading thread-tension device for shuttles. No. 1,438,559; Dec. 12.
- Sixt, Frederick C., assignor to The Chandler & Price Company, Cleveland, Ohio. Inking mechanism for printing presses. No. 1,439,767; Dec. 26.
- Sixt, Walter, Streator, Ill. Scuttle. No. 1,431,700; Oct. 10.
- Sixta, Emil C., Cleveland, Ohio. Building blocks. No. 1,437,867; Dec. 5.
- Size, Peter F., Calgary, Alberta, Canada. Tie holder and fastener. No. 1,403,453; Jan. 10.
- Sizer, Albert W., Hesse, near Kingston-upon-Hull, England. Extrusion machine of the worm-screw compressing type. No. 1,402,672; Jan. 3.
- Sjoberg, Sidney T., Chicago, assignor to Whiting Corporation, Harvey, Ill. Combination locomotive and coach hoist. No. 1,438,341; Dec. 12.
- Sjoberg, Nels P., Chicago, Ill. Process and apparatus for manufacture of pipes. No. 1,404,830; Jan. 31.
- Sjoquist, Richard A., Hibbing, Minn. Packing box for throttle-valve stems. No. 1,407,354; Feb. 21.
- Sjöström, Victor, Los Angeles, Calif. Gas burner. No. 1,438,505; Dec. 12.
- Skaife, Walter, London, England. Dog clutch. No. 1,423,631; July 25.
- Skall, Max A., New York, N. Y. Protecting device for show windows. No. 1,424,043; July 25.
- Skane, James F. (See Hinckley, F. C., and Skane.)
- Skanse, Peter, Minneapolis, Minn. Traffic signal. No. 1,430,695; Oct. 3.
- Skartchsearis, James P., Jamestown, N. Y. Railway switch and signal mechanism. No. 1,430,411; Sept. 26.
- Skartchsearis, James P., Jamestown, N. Y. Track-switch-tripping mechanism. No. 1,430,412; Sept. 26.
- Skarzynski, Frank, Rochester, N. Y. Direction indicator for motor vehicles. No. 1,422,005; July 4.
- Skayef Ball Bearing Company, The. (See Davis, R. K., and Schaffer, assignors.)
- Skayef Ball Bearing Company, The. (See Davis, Russell K., assignor.)
- Skayef Ball Bearing Company, The. (See Hutchinson, Walter L., assignor.)
- Skayef Ball Bearing Company, The. (See Waller, Algot E., assignor.)
- Skayef Ball Bearing Company, The. (See Wikander, Oscar R., assignor.)
- Skedgell, David E., North Tiverton, R. I. Tension device for spoolers. No. 1,403,454; Jan. 10.
- Keels, Lee H., Portland, Oreg., assignor of one-half to R. E. M. Strickland, Spokane, Wash. Muffler. No. 1,432,797; Oct. 24.
- Keels, William C., Oklahoma, Okla. Journal box. No. 1,420,156; June 20.
- Skeens, Frederick. (See d'Eyncourt, E. H. T., and Skeens.)
- Skehan, James J., and J. A. Faurot, New York, N. Y. Telltale signal for road vehicles. No. 1,413,361; Apr. 18.
- Skeldon, Joseph L., Engineering Company. (See Skeldon, Joseph L., assignor.)
- Skeldon, Joseph L., assignor to Joseph L. Skeldon Engineering Company, Toledo, Ohio. Powder gun. No. 1,406,233; Feb. 14.
- Skelley, Horatio A., and A. B. Smith, Battersea, assignors to Continuous Reaction Company, Limited, London, England. Manufacture of ferrous alloys. No. 1,437,273; Nov. 28.
- Skelley, John M., and J. Merson, Battersea, London, assignors to Continuous Reaction Company, Limited, London, England. Manufacture of ferrotungsten. No. 1,437,271; Nov. 28.
- Skelley, John M., and J. Merson, Battersea, London, assignors to Continuous Reaction Company, Limited, London, England. Manufacture of ferromolybdenum. No. 1,437,272; Nov. 28.
- Skelly, Bernard H., Bridgeport, Conn. Dust cap for lubrication nipples. No. 1,408,229; Feb. 28.
- Skelly, Bernard H., Bridgeport, Conn. Lubricating system. No. 1,414,592; May 2.
- Skelly, Bernard H., Bridgeport, Conn. Oiling device. No. 1,415,124; May 9.
- Skelly, John S., Monongahela, Pa., assignor to Combustion Engineering Corporation, New York, N. Y. Screw-feed stoker. No. 1,405,948; Feb. 7.
- Skelly, John S., Monongahela, Pa., assignor to Combustion Engineering Corporation, New York, N. Y. Grate for stoker furnaces. No. 1,438,190; Dec. 12.
- Skelly, Samuel, Alameda, Calif. Clothes drier. No. 1,421,851; July 4.
- Skelton, Charles E., East Onondaga, N. Y. Reamer. No. 1,405,020; Jan. 31.
- Skelton, Charles E., East Onondaga, N. Y. Reamer. No. 1,405,021; Jan. 31.
- Skelton, John W., Douglas, Ariz. Bait for flytraps. No. 1,407,092; Feb. 21.
- Skelton, William S., Evansville, Ind. Union garment. No. 1,430,409; Sept. 26.
- Skeppstedt, Olof, Moline, Ill. Core-making machine. No. 1,417,577; May 30.
- Skerl, Francesco, New York, N. Y., assignor to The National Cash Register Company, Dayton, Ohio. Ticket printing and issuing mechanism. No. 1,435,184; Nov. 14.
- Skerl, Francesco, New York, N. Y., assignor to The National Cash Register Company, Dayton, Ohio. Ticket-issuing mechanism. No. 1,435,185; Nov. 14.
- Skidd, Charles. (See Hippenmeyer, I. R., and Skidd.)
- Skidmore, Benjamin, Jr., Chicago, Ill. Apparatus for separating gases from liquids. No. 1,403,650; Jan. 17.
- Skidmore, Benjamin, Jr., Chicago, Ill. Suction-creating apparatus. No. 1,409,315; Mar. 14.
- Skidmore, Benjamin, Jr., Chicago, Ill. Apparatus for moving and mixing fluids. No. 1,434,848; Nov. 7.
- Skidmore, George, Youngstown, Ohio. Flower holder. No. 1,402,904; Jan. 10.
- Skiffington, William P., New York, N. Y., assignor to D. G. C. Trap & Valve Co., Inc. Valve device. No. 1,436,412; Nov. 21.
- Skiles, Bruce E., Santa Ana, Calif. Chock for automobile wheels. No. 1,407,338; Feb. 21.
- Skiles, Henry D., Kansas City, Mo. Wheel puller. No. 1,427,976; Sept. 5.
- Skillins, John T., Westbrook, Me., assignor to Dana Cotton Harvester Company. Vacuum nozzle for cotton harvesters. No. 1,439,270; Dec. 19.
- Skilnyk, Andrew, et al. (See Sharp, Jacob, assignor.)
- Skinkle, William B., et al. (See Beneker, Jay C., assignor.)
- Skinner, Bronson C., assignor to Skinner Machinery Company, Dunedin, Fla. Elevating apparatus. No. 1,413,133; Apr. 18.
- Skinner, Bronson C., assignor to Skinner Machinery Company, Dunedin, Fla. Conveying apparatus. No. 1,414,674; May 2.
- Skinner, Bronson C., assignor to Skinner Machinery Company, Dunedin, Fla. Polishing apparatus. No. 1,420,062; June 20.
- Skinner Bros. Mfg. Co. (See Baetz, Henry, assignor.)
- Skinner, Burr R., Aberdeen, S. Dak., assignor of one-half to R. Liebrich, Indianapolis, Ind. Necktie former and holder. No. 1,414,529; May 2.
- Skinner Engine Company. (See Metcalfe, Robert F., assignor.)
- Skinner, Frank R., assignor of one-third to F. E. Groover and one-third to F. Musselman, Santa Ana, Calif. Grain and bean feeder. No. 1,435,342; Nov. 14.
- Skinner, Frank W., Taft, Calif. Gas burner. No. 1,434,159; Oct. 31.
- Skinner, Fred A. C., et al. (See Baetz, Henry, assignor.)
- Skinner, Fred A. C., St. Louis, Mo. Air-heating stove. No. 1,416,900; May 23.
- Skinner, James M., S. H. Mortimer, Philadelphia, and L. J. Pearson, Willow Grove, assignors to Philadelphia Storage Battery Company, Philadelphia, Pa. Storage-battery cover. No. 1,402,673; Jan. 3.
- Skinner, Le Grand, Erie, Pa. Valve. No. 1,419,474; June 13.
- Skinner, Lewis B., Denver, Colo. Mechanical rabble device. No. 1,404,902; Jan. 31.
- Skinner, Lewis B., Denver, Colo. Mechanical rabble device. No. 1,420,501; June 20.
- Skinner Machinery Company. (See Maull, Edward N., assignor.)
- Skinner Machinery Company. (See Skinner, Bronson C., assignor.)
- Skinner, Merrill G., et al. (See Baetz, Henry, assignor.)
- Skinner, Mortimer B., Wilmette, Ill. Valve-reseating tool. No. 1,425,611; Aug. 15.
- Skinner Oramel H., Indianapolis, Ind. Piston. No. 1,414,221; Apr. 25.
- Skinner Oramel H., Indianapolis, Ind., and H. S. Smith, New York, N. Y., assignors to The Prest-O-Lite Company, Inc., Indianapolis, Ind. Manufacturing cylinders for dissolved acetylene. No. 1,407,588; Feb. 21.
- Skinner Patent Holding Company. (See Metcalfe, Robert F., assignor.)
- Skinner, Ralph L., Sacramento, Calif. Internal-combustion-engine attachment. No. 1,415,060; May 9.
- Skinner, Ralph L., Sacramento, Calif. Lubricant trap. No. 1,435,561; Nov. 14.
- Skinner, William L., Thomaston, Ala. Adjustable radius rod. No. 1,437,562; Dec. 5.
- Skinner and Eddy Shipbuilding Co. (See McCallum, Clifford N., assignor.)
- Skipp, Herbert J., Newark, N. J. Button-forming machine. No. 1,436,918; Nov. 28.
- Skipper, Charles J., Providence, Ky. Vehicle spring. No. 1,437,688; Dec. 5.
- Skipworth, Walter, assignor to The Ohio Blower Company, Cleveland, Ohio. Holding means for ventilator louvers and the like. No. 1,427,917; Sept. 5.
- Skirrow, Frederick W., Shawinigan Falls, assignor to Shawinigan Laboratories, Limited, Montreal, Quebec, Canada. Manufacturing aldehydes and anhydrides from diesters. No. 1,429,650; Sept. 19.
- Sklaska, Frank J., Westfield, Mass. Removable valve seat for faucets. No. 1,431,701; Oct. 10.

- Sklenar, Wenzeslaw F., London, England. Reverberatory furnace. No. 1,438,342; Dec. 12.
- Sklenka, Frederick F., Long Island City, N. Y. Border for hotbeds and the like. No. 1,414,593; May 2.
- Skoda, Michael. (See Aptel, Adam, assignor.)
- Skolnik, Max, Minneapolis, Minn. Furniture. No. 1,436,057; Nov. 21.
- Skonnord, Olaf B., Valley City, N. Dak. Tractor hitch. No. 1,423,164; July 18.
- Skonseng, Peder, Englevalle, N. Dak. Pulverizer and packer. No. 1,404,801; Jan. 31.
- Skortz, Michael J., Cleveland, Ohio. Toilet flusher. No. 1,439,196; Dec. 19.
- Skreberg, Hans, Big Bend Township, Chippewa County, Minn. Holder for sharpening hones. No. 1,433,855; Oct. 31.
- Skroback, Frank E., Syracuse, N. Y. Flying machine. No. 1,434,922; Nov. 7.
- Skubinski, Aleksander, Los Angeles, Calif. Animal trap. No. 1,422,894; July 18.
- Skublin, Charles P., Detroit, Mich. Differential drive for motor vehicles. No. 1,408,835; Mar. 7.
- Skublin, Charles P., Detroit, Mich. Lock. No. 1,425,221; Aug. 8.
- Skywing Aircraft Corporation. (See Harper, William, Jr., assignor.)
- Slack, Albert B., San Antonio, Tex. Tool box. No. 1,421,732; July 4.
- Slack, Edward A., Auckland, New Zealand. Tie adjuster and retainer. No. 1,428,454; Sept. 5.
- Slack, William S. (See Robins, J. E., and Slack.)
- Sladden, Sidney C., New York, N. Y. Fluid tractor motor. No. 1,425,292; Aug. 8.
- Sladden, Sidney C., New York, N. Y. Self-propelling rotary cutter. No. 1,426,919; Aug. 22.
- Slade, James V., New York, N. Y., assignor to The Dorr Company. Gravitational separator. No. 1,405,022; Jan. 31.
- Slade, Starkie N., Durham, N. C. Plant protector. No. 1,434,160; Oct. 31.
- Sladky, Alexander C., Shorewood, Wis. Chair. No. 1,405,632; Feb. 7.
- Slag Rock Machine Company. (See Hurst, Willis T., assignor.)
- Slaght, Anna W., Evanston, Ill. Baggage stand for hotel guest rooms. No. 1,429,651; Sept. 19.
- Slaibelle, Jack, Ludlow, Vt. Lock. No. 1,421,316; June 27.
- Slaiger, Henry, assignor to The D. F. Briggs Company, Attleboro, Mass. Powder container. No. 1,425,909; Aug. 15.
- Slatcher, Clarence S., Philadelphia, Pa. Shower-bath apparatus. No. 1,402,974; Jan. 10.
- Slate, Nathaniel P., Tangent, Oreg. Scraper. No. 1,407,683; Feb. 21.
- Slater, Frank B., Washington, D. C. Filler attachment for oil reservoirs. No. 1,413,878; Apr. 25.
- Slater, Fred M. (See Bayles, L. C., and Slater.)
- Slater, Fred M., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Handle for stope drills. No. 1,406,767; Feb. 14.
- Slater, Fred M., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Front-end construction for rotating rock drills. No. 1,407,589; Feb. 21.
- Slater, Fred M., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Throttle valve for rock drills. No. 1,407,590; Feb. 21.
- Slater, Fred M., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Air-feed control for rock drills. No. 1,407,591; Feb. 21.
- Slater, Fred M., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Regulating valve for rock drills. No. 1,414,222; Apr. 25.
- Slater, Harvey R., Chicago, Ill. File-milling cutter. No. 1,433,306; Oct. 24.
- Slater, Henry B., Riverside, Calif. Leaching copper and like ores. No. 1,438,869; Dec. 12.
- Slater, Mabel H., New York, N. Y. Doll's head with movable eyes. No. 1,414,901; May 2.
- Slater, Robert O., Tulsa, Okla. Wire-line socket. No. 1,406,768; Feb. 14.
- Slater, Vern, Chicago, and G. B. Guthrie, Lockport, Ill.; said Guthrie assignor to said Slater. Link cuff button and link unit therefor. No. 1,436,204; Nov. 21.
- Slattery, Edward F., Rochester, N. Y. Repair link for tire chains. No. 1,438,560; Dec. 12.
- Slattery, John P., New York, N. Y. Flange wrench. No. 1,413,362; Apr. 18.
- Slattery, William H., New York, N. Y., assignor to The Belber Trunk & Bag Company, Philadelphia, Pa. Fastener and tag holder. No. 1,409,252; Mar. 14.
- Slatten, William H., Chicago, Ill. Car roof. No. 1,428,989; Sept. 12.
- Slaughter, James M., Chattanooga, Tenn. Self-lubricating car wheel. No. 1,434,233; Oct. 31.
- Slauson, Louis E., Moline, assignor to Grid-Iron-Grip Company, Rock Island, Ill. Tractor wheel. No. 1,433,569; Oct. 31.
- Slauson, Louis E., assignor to Grid-Iron-Grip Company, Rock Island, Ill. Traction wheel. No. 1,439,847; Dec. 26.
- Slauter, George W., Dixon, Ill. Self-adjusting dump bucket. No. 1,425,063; Aug. 8.
- Slavens, Charles, assignor to Boyden Shoe Mfg. Co., Incorporated, Newark, N. J. Belt. No. 1,431,846; Oct. 10.
- Slawinski, Zygmunt, South Plainfield, N. J. Safety door for freight cars. No. 1,406,095; Feb. 7.
- Slaymaker Electric Welding Company. (See Bourke, Thomas N., assignor.)
- Slaymaker Electric Welding Company. (See Slaymaker, George D., assignor.)
- Slaymaker, George D., Detroit, Mich. Anchor or tie for loop ends. No. 1,408,230; Feb. 28.
- Slaymaker, George D., Detroit, Mich., assignor to Slaymaker Electric Welding Company. Trolley-line support. No. 1,438,065; Dec. 5.
- Slayton, Ralph E., New York, N. Y. Slicing machine. No. 1,419,418; June 13.
- Slee, Richard, Swiftwater, Pa. Container applicator. No. 1,415,413; May 9.
- Sleeper, Oliver S., assignor to Buffalo Foundry & Machine Company, Buffalo, N. Y. Autoclave. No. 1,426,920; Aug. 22.
- Sleeper, Otis H., Exeter, N. H. Swivel. No. 1,417,949; May 30.
- Sleeper & Hartley, Inc. (See Sinclair, Alexander B., assignor.)
- Sleight, George A., Hyde Park, N. Y. Fan-pulley wheel and crank ratchet. No. 1,426,227; Aug. 15.
- Sleight, George A., Hyde Park, N. Y. Urinal trap guard and disinfecting device. No. 1,430,598; Oct. 3.
- Slevis, Joseph, Chelsea, Mass. Combination lock. No. 1,418,681; June 6.
- Slepian, Joseph, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupter. No. 1,406,234; Feb. 14.
- Slepicka, John J., New Castle, Pa. Sled. No. 1,435,343; Nov. 14.
- Sletten, Anton I., Christiania, Norway. Internal-combustion engine. No. 1,421,594; July 4.
- Slick, Edwin E., Pittsburgh, Pa. Vehicle wheel. No. 1,414,437; May 2.
- Slick, Edwin E., Johnstown, Pa. Rail anchor. No. 1,417,473; May 23.
- Slick, Edwin E., Johnstown, Pa. Making return L's. No. 1,426,324; Aug. 15.
- Slick, Edwin E., Pittsburgh, Pa. Machine for rolling. No. 1,423,268; July 18.
- Slick, Edwin E., Johnstown, Pa. Making return L's. No. 1,430,856; Oct. 3.
- Slick, Edwin E., Westmont Borough, Pa., assignor to W. P. Murphy, New York, N. Y. Metal car. (Reissue.) No. 15,340; Apr. 18.
- Sliding Valves Incorporated. (See Wilson, Wylie G., assignor.)
- Slife, Frank L., assignor to The Elyria Iron & Steel Company, Cleveland, Ohio. Welding apparatus. No. 1,414,530; May 2.
- Slimm, John B., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Meta-hydroxy-benzaldehyde. No. 1,419,695; June 13.
- Slinger, Cornelius H., Hawthorne, N. J. Friction band for let-off mechanism. No. 1,423,780; July 25.
- Slingsby, Ernest W., assignor to The Pratt Read Player Action Company, Saybrook, Conn. Pedal-operated musical instrument. No. 1,409,475; Mar. 14.
- Slipper City Wood Heel Company. (See Wentworth, Ralph A., assignor.)
- Slushman, Samuel, Boston, Mass. Fuel tank. No. 1,437,823; Dec. 5.
- Slivorsky, Adam, and P. Dorozynsky, Winnipeg, Manitoba, Canada. Toy power machine. No. 1,408,412; Feb. 28.
- Slizewski, Ernest, Pelican Lake, Wis. Gun platform. No. 1,414,100; Apr. 25.
- Sloan, Berry P., Livermore, Colo. Separable-fastener seal. No. 1,410,081; Mar. 21.
- Sloan, Clark, East Cleveland, Ohio. Eye-testing apparatus and process. No. 1,417,283; May 23.
- Sloan, Elmer L., Joplin, Mo. Steering-gear antirattler. No. 1,430,122; Sept. 26.
- Sloan, Harry E., Hartford, Conn. Chuck. No. 1,424,597; Aug. 1.
- Sloan, James W., Tulsa, Okla. Bailer bottom and manufacture. No. 1,404,487; Jan. 24.
- Sloan, Robert A., Oxtou, England. Objective changer or the like for microscopes. No. 1,428,990; Sept. 12.
- Sloane, Luke S., Okmulgee, Okla. Wrench. No. 1,406,293; Feb. 14.
- Sloane, Max. (See Sloane, Nathan and M.)
- Sloane, Nathan and M., Brooklyn, N. Y. Mirror and lighting means therefor. No. 1,426,228; Aug. 15.
- Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Locomotive. No. 1,436,205; Nov. 21.
- Slocumb, Frank F. (See Howard, Emmett M., assignor.)
- Slocumbe, Frank E., assignor to Pilkington Brothers Limited, St. Helens, England. Grinding or polishing of glass and apparatus therefor. No. 1,404,553; Jan. 24.
- Slocum, Frank E., Denver, Colo. Twine grip. No. 1,413,690; Apr. 25.
- Slocum, Lewis M., Los Angeles, Calif. Movie doll. No. 1,432,628; Oct. 17.
- Slohm Tire & Mould Co. (See Radlovich, Harry, assignor.)

Alphabetical list of patentees—Continued.

- Sloman, Cheri M., Detroit, Mich. Tire-building apparatus. No. 1,415,724; May 9.
- Slothower, Aaron, Warren, Oreg. Pruning saw. No. 1,423,506; July 18.
- Slough, Frank M., Elyria, Ohio, assignor, by mesne assignments, to Stromberg-Carlson Telephone Mfg. Co., Rochester, N. Y. Telephone system. No. 1,402,905; Jan. 10.
- Slough, Frank M., Elyria, Ohio, assignor, by mesne assignments, to Stromberg-Carlson Telephone Mfg. Co., Rochester, N. Y. Telephone system. No. 1,407,892; Feb. 28.
- Slough, Frank M., assignor to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Signaling system. No. 1,408,540; Mar. 7.
- Slough, Frank M., assignor to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Relay. No. 1,413,691; Apr. 25.
- Slough, Frank M., assignor to The Elyria Enameled Products Company, Elyria, Ohio. Liquid-agitating mechanism. No. 1,420,767; June 27.
- Slough, Frank M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone exchange system. No. 1,427,170; Aug. 29.
- Slough, Frank M., Forest Lawn, assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Call-distributing telephone system. No. 1,434,968; Nov. 7.
- Slough, Frank M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Line interconnecting system. No. 1,437,367; Nov. 28.
- Slough, Frank M., Evanston, Ill., assignor to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Relay. No. 1,437,368; Nov. 28.
- Slough, Thomas M., New Orleans, La. Process of and apparatus for the mottification and disintegration of agglutinate elements. No. 1,428,991; Sept. 12.
- Slovey, John E., Kennett, Calif. Anticrepper rail plate. No. 1,440,249; Dec. 26.
- Slutz, Thomas W., St. Paul, Minn. Tool for collapsing and expanding split rims. No. 1,402,674; Jan. 3.
- Sluyter, William, Samoa, assignor of one-half to F. Thompson, Eureka, Calif. Automatic retainer. No. 1,433,748; Oct. 31.
- Sly, W. W., Manufacturing Company, The. (See Moore, Raymond H., assignor.)
- Sly, W. W., Manufacturing Company, The. (See Moore, Edward J., and R. H., assignors.)
- Slye, John Q., assignor of one-half to T. L. Lipsett, Washington, D. C. Foldable or extensible car step. No. 1,407,592; Feb. 21.
- Slyt Edge Company. (See Krause, Lou, assignor.)
- Smal, Firmin, Couthuin, Belgium. Four-stroke-cycle internal-combustion engine. No. 1,417,694; May 30.
- Small, Charles A. (See Shafer, Ira, and Small.)
- Small, Chesley T., assignor to First National Bank in St. Louis, St. Louis, Mo. Dust-retaining device for can-filling machines. No. 1,433,662; Oct. 31.
- Small, Chesley T., assignor to First National Bank in St. Louis, St. Louis, Mo. Dust-retaining device for can-filling machines. No. 1,433,663; Oct. 31.
- Small, Chesley T., assignor to First National Bank in St. Louis, St. Louis, Mo. Can-sealing machine. No. 1,433,664; Oct. 31.
- Small, David P., Pittsburgh, Pa. Antiskid device. No. 1,403,270; Jan. 10.
- Small, Frank E., Jamaica, N. Y. Measuring device. No. 1,425,800; Aug. 15.
- Small, Frederick E., Needham, assignor to Pressure Proof Piston Ring Company, Boston, Mass. Piston packing. No. 1,426,783; Aug. 22.
- Small, Frederick E., Needham, assignor to Pressure Proof Piston Ring Company, Boston, Mass. Packing ring. No. 1,437,563; Dec. 5.
- Small, Isadore. (See Janofsky, Max, assignor.)
- Small, James W., Chicago, Ill. Liquid aerator. No. 1,429,652; Sept. 19.
- Small, Thomas W., Cleveland, Ohio. Telephone attachment. No. 1,422,487; July 11.
- Smalley, Charles, Wagner, S. Dak. Truss for automobiles. No. 1,424,685; Aug. 1.
- Smalley, Edwin L., South Orange, N. J. Electrically-heated boiler. No. 1,430,927; Oct. 3.
- Smalley General Company. (See Martin, Percy W., assignor.)
- Smalley, George J., Hastings, Mich. Tape remover. No. 1,407,955; Feb. 28.
- Smalley, James S., Muscatine, Iowa. Transmission. No. 1,417,950; May 30.
- Smalley Manufacturing Company. (See Frick, Orlando C., assignor.)
- Smalley, William W., Chicago, Ill. Draft regulator. No. 1,428,664; Sept. 12.
- Smallwood, Alfred, Highgate, London, England. Furnace. No. 1,403,202; Jan. 10.
- Smallwood, Alfred, London, England. Furnace. No. 1,421,852; July 4.
- Smart, Ezra E., Hartford, and F. P. Gates, West Hartford, assignors to The Hart Manufacturing Company, Hartford, Conn. Reciprocating rotary switch. No. 1,409,146; Mar. 7.
- Smart, Henry C., Brooklyn, assignor to Standard Oil Company of New York, New York, N. Y. Separating constituent hydrocarbons of petroleum vapors by partial condensation thereof. No. 1,437,689; Dec. 5.
- Smart, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Handle. No. 1,422,630; July 11.
- Smartt, Brinay, assignor of one-half to W. J. Kearney and one-fourth to H. D. Robinson, Indianapolis, Ind. Shock absorber. No. 1,419,320; June 13.
- Smedley, Cornelius, Te Awamutu, assignor to New Zealand Co-Operative Honey Producers Association, Limited, Auckland, New Zealand. Honeycomb and cappings melter. No. 1,405,023; Jan. 31.
- Smedley, Daniel P., Cincinnati, Ohio. Faultfinder for moving-picture machines. No. 1,405,343; Jan. 31.
- Smelser, King H., Golconda, Nev. Trip for hay nets. No. 1,402,675; Jan. 3.
- Smend, William C., Jersey City, N. J., and W. P. Spreckels, Yonkers, N. Y. Packaging cube sugar. No. 1,431,702; Oct. 10.
- Smerschnik, John F., Wilkes-Barre, Pa. Carbon remover. No. 1,430,033; Sept. 26.
- Smidley, George W., New Holland, Ohio. Hog feeder. No. 1,417,212; May 23.
- Smith, Lulah M., Los Angeles, Calif. Hair curler. No. 1,439,271; Dec. 19.
- Smith, E. L., & Co. (See Easting, Johan S., assignor.)
- Smith, F. L., & Co. (See Lindhard, Povi T., assignor.)
- Smirek, Ludwig, Elizabeth, N. J. Spring wheel. No. 1,415,006; May 2.
- Smiley, Charles W., et al. (See Brown, John L., assignor.)
- Smiley, John P., Dallas, Tex. Ball game. No. 1,409,033; Mar. 7.
- Smiley, William A., assignor to The Inner Braced Seating Company, Kansas City, Mo. Movable chair desk. No. 1,416,132; May 16.
- Smiley, William A., assignor to The Inner Braced Seating Company, Kansas City, Mo. Desk top. No. 1,416,518; May 16.
- Smith, A. O., Corporation. (See Adams, James L., Jr., assignor.)
- Smith, A. O., Corporation. (See Andren, Birger T., assignor.)
- Smith, A. O., Corporation. (See Smith, R. S., and Burgess, assignors.)
- Smith, A. O., Corporation. (See Smith, R. S., and Hansen, assignors.)
- Smith, A. O., Corporation. (See Smith, R. S., and Miller, assignors.)
- Smith, A. O., Corporation. (See Smith, Reuben S., assignor.)
- Smith, A. O., Corporation. (See Stresau, Richard, assignor.)
- Smith, A. O., Corporation. (See Westmore, Halward G., assignor.)
- Smith, Abraham, Erie, Pa. Computing and recording machine. No. 1,426,419; Aug. 22.
- Smith, Abram E., Huguenot Park, N. Y. Tank car. No. 1,431,703; Oct. 10.
- Smith, Abram E., New York, N. Y. Tank car. No. 1,432,497; Oct. 17.
- Smith, Abram F., Aberdeen, Wash. Butter cutter. No. 1,438,870; Dec. 12.
- Smith, Adam L., Youngstown, Ohio. Hot-air furnace. No. 1,428,665; Sept. 12.
- Smith, Adoniram J., Seattle, Wash. Harrow. No. 1,411,196; Mar. 28.
- Smith, Agnes M., Rochester, N. Y. Skirt. No. 1,419,990; June 20.
- Smith, Ajax T. (See Tedder, James A., assignor.)
- Smith, Albert D., Detroit, Mich. Revolving-hook sewing machine. No. 1,415,268; May 9.
- Smith, Albert D., Detroit, Mich. Rotary take-up for sewing machines. No. 1,415,269; May 9.
- Smith, Albert D., Detroit, Mich. Elevation adjustment for sewing-machine feed. No. 1,417,865; May 30.
- Smith, Albert P. O., and W. E. Shockley, Hebron, Mo. Pattern-controlled woodworking machine. No. 1,418,028; May 30.
- Smith, Albert W., Cleveland, Ohio. Electrolytic apparatus. No. 1,427,171; Aug. 29.
- Smith, Albert W., Youngstown, Ohio. Slag pocket. No. 1,427,862; Sept. 5.
- Smith, Albert W., and G. A. Collins, Youngstown, Ohio. Fuel burner. No. 1,414,438; May 2.
- Smith, Alexander L. (See Johnson, James H., assignor.)
- Smith, Alfred, La Madeleine-lez-Lille, France. Stripping apparatus for carding machines and the like. No. 1,424,598; Aug. 1.
- Smith, Alfred A. (See Simonton, Frank H., assignor.)
- Smith, Alfred H., New York, N. Y. Fastening for freight-car compartments. No. 1,406,294; Feb. 14.
- Smith, Alfred H., New York, N. Y. Compartment freight car. No. 1,407,593; Feb. 21.
- Smith, Alfred H., New York, N. Y. Compartment freight car. No. 1,407,594; Feb. 21.
- Smith, Alfred H., Chappaqua, N. Y. Lading container. No. 1,407,595; Feb. 21.
- Smith, Alfred H., Chappaqua, N. Y. Handling freight, express and the like. No. 1,407,596; Feb. 21.
- Smith, Alfred H., New York, N. Y. Interchangeable car unit. No. 1,408,413; Feb. 28.

- Smith, Alfred H., New York, N. Y. Anchoring means for interchangeable car units. No. 1,408,414; Feb. 28.
- Smith, Alfred H., Happaqua, N. Y. Railway car. No. 1,432,421; Oct. 17.
- Smith, Alva T., Syracuse, N. Y. Envelope opener. No. 1,408,415; Feb. 28.
- Smith, Amos H., Brooklyn, N. Y., assignor to American Bank Note Company, New York, N. Y. Feeding mechanism for rotary printing machines. No. 1,436,688; Nov. 28.
- Smith, Andrew B. (See Skelley, H. A., and Smith.)
- Smith, Angus J., Quitman, Ga. Bottle tap. No. 1,438,668; Dec. 12.
- Smith, Angus N., Forty Fort, assignor to Wales Adding Machine Company, Wilkes-Barre, Pa. Calculating machine. No. 1,415,125; May 9.
- Smith, Arthur B., Augusta, Ga. Cloth-roll-stand attachment for looms. No. 1,436,542; Nov. 21.
- Smith, Arthur B., Evanston, assignor to Automatic Electric Company, Chicago, Ill. Voice-current telephone repeater. No. 1,412,067; Apr. 11.
- Smith, Arthur B., Evanston, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,412,094; Apr. 11.
- Smith, Arthur D., Arkansas City, Kans. Apparatus for effecting circulation and maintaining clean surfaces in stills. No. 1,403,980; Jan. 17.
- Smith, Arthur D., Portland, Me., assignor to National Seal Company, Inc., New York, N. Y. Closure for containing vessels. No. 1,420,768; June 27.
- Smith, Arthur D., Portland, Me., assignor to National Seal Company, Inc., New York, N. Y. Art of and apparatus for producing closures for containing vessels. No. 1,420,875; June 27.
- Smith, Arthur G., Los Angeles, Calif. Folding bed. No. 1,439,272; Dec. 19.
- Smith, Arthur R., Schenectady, N. Y., assignor to General Electric Company. Electrical apparatus. No. 1,426,921; Aug. 22.
- Smith, Arthur T., Sheffield, England. Scissors. No. 1,409,978; Mar. 21.
- Smith, Arthur W., New York, assignor to Remington Typewriter Company, Iliou, N. Y. Typewriting machine. No. 1,414,810; Apr. 25.
- Smith, Arthur W., New York, assignor to Remington Typewriter Company, Iliou, N. Y. Typewriting machine. No. 1,431,600; Oct. 10.
- Smith, Arthur W., New York, assignor to Remington Typewriter Company, Iliou, N. Y. Typewriting machine. No. 1,435,669; Nov. 14.
- Smith, Asher R., Laredo, Tex. Wire garden-hose support. No. 1,439,383; Dec. 19.
- Smith, Barbara C., Alliance, Nebr. Corset measurer. No. 1,407,228; Feb. 21.
- Smith, Benjamin H., Turtle Creek, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical measuring instrument. No. 1,406,235; Feb. 14.
- Smith, Benjamin H., Turtle Creek, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. No. 1,417,695; May 30.
- Smith, Bernard W., Bradford, Vt. Reverse pulley for machine tools, elevators, etc. No. 1,420,502; June 20.
- Smith, Bronson H., Brooklyn, N. Y., assignor, by mesne assignments, to Delmore Manufacturing Company, Incorporated. Parcel-carrying vehicle. No. 1,407,597; Feb. 21.
- Smith, Burdsey W., Oroville, Calif. Combined twine holder and advertising device. No. 1,407,175; Feb. 21.
- Smith, Carl A., Defiance, Ohio. Road-building apparatus. No. 1,422,895; July 19.
- Smith, Cedric B., Chicago, Ill. Computing chart. No. 1,402,803; Jan. 10.
- Smith, Charles, Providence, R. I. Easel for florists' use. No. 1,407,490; Feb. 21.
- Smith, Charles, Providence, R. I. Easel for florists' use. No. 1,421,595; July 4.
- Smith, Charles A., Columbus, Ohio. Means for and process of forming locks for plaster. No. 1,439,646; Dec. 19.
- Smith, Charles C., Cleveland, Ohio. Hammer. No. 1,401,150; Jan. 17.
- Smith, Charles F., assignor to Maxim Manufacturing Company, Chicago, Ill. Butter cutter. No. 1,426,016; Aug. 15.
- Smith, Charles F., and G. E. Curtiss, assignors to Landers, Frary & Clark, New Britain, Conn. Electric radiator. No. 1,423,039; July 18.
- Smith, Charles H., Malden, Mass. Assembling devices for locking together knockdown structure. No. 1,403,981; Jan. 17.
- Smith, Charles H., Chicago, Ill. Drive for automatic pianos. No. 1,433,307; Oct. 24.
- Smith, Charles H., Short Hills, N. J., assignor to International Coal Products Corporation, Richmond, Va. Carbonizing furnace retort. No. 1,409,597; Mar. 14.
- Smith, Charles H., Short Hills, N. J., assignor to International Coal Products Corporation, Richmond, Va. Carbonizing furnace retort. No. 1,409,598; Mar. 14.
- Smith, Charles H., Short Hills, N. J., assignor to International Coal Products Corporation, Richmond, Va. Furnace retort and discharge mechanism therefor. No. 1,409,599; Mar. 14.
- Smith, Charles H., Short Hills, N. J., assignor to International Coal Products Corporation, Richmond, Va. Gasification of coal and obtaining of by-products. No. 1,413,799; Apr. 25.
- Smith, Charles H., Short Hills, N. J., assignor to International Coal Products Corporation, Richmond, Va. Furnace retort. No. 1,413,801; Apr. 25.
- Smith, Charles H., Short Hills, N. J., assignor to International Coal Products Corporation, Richmond, Va. Furnace retort. No. 1,414,159; Apr. 25.
- Smith, Charles H., Short Hills, N. J., assignor to International Coal Products Corporation, Richmond, Va. Plant for and treating coal. No. 1,414,223; Apr. 25.
- Smith, Charles H., Short Hills, N. J., assignor to International Coal Products Corporation, Richmond, Va. Furnace retort. No. 1,415,201; May 9.
- Smith, Charles H., Short Hills, N. J., assignor to International Coal Products Corporation, Richmond, Va. Plant for and method of treating coal. No. 1,415,202; May 9.
- Smith, Charles H., Short Hills, N. J., assignor to International Coal Products Corporation, Richmond, Va. Furnace retort. No. 1,415,846; May 9.
- Smith, Charles H., Short Hills, N. J., and E. B. Edwards, East Orange, N. J., assignors to International Coal Products Corporation, Richmond, Va. Furnace retort. No. 1,413,802; Apr. 25.
- Smith, Charles H., Short Hills, and E. B. Edwards, East Orange, N. J., assignors to International Coal Products Corporation, Richmond, Va. Furnace retort. No. 1,415,061; May 9.
- Smith, Charles H., Short Hills, and E. B. Edwards, East Orange, N. J., assignors to International Coal Products Corporation, Richmond, Va. Furnace retort. No. 1,417,113; May 23.
- Smith, Charles M., assignor of one-half to A. E. Ballentine, Greenfield, Ohio. Antiskid device. No. 1,403,892; Jan. 17.
- Smith, Charles O., San Jose, Calif. Cooker. No. 1,411,811; Apr. 4.
- Smith, Charles P., White Pine, assignor of one-third to B. Harle, Morristown, and one-third to J. G. Moore, White Pine, Tenn. Valve. No. 1,406,096; Feb. 7.
- Smith, Charles P., White Pine, assignor of one-third to B. Harle, Morristown, and one-third to J. G. Moore, White Pine, Tenn. Internal-combustion engine. No. 1,431,547; Oct. 10.
- Smith, Charles P., White Pine, assignor of one-third to B. Harle, Morristown, and one-third to J. G. Moore, White Pine, Tenn. Internal-combustion engine. No. 1,431,548; Oct. 10.
- Smith, Charles S. (See Hastings, H. J., and Smith.)
- Smith, Chelsie A., Newark, Ohio. Door controller. No. 1,412,716; Apr. 11.
- Smith Chimes Clock Company. (See Smith, George L., assignor.)
- Smith, Cicero G., Detroit, Mich. Spring wheel. No. 1,436,730; Nov. 28.
- Smith, Clarence W., Cold Springs, N. Y. Pneumatic wheel for automobiles and like vehicles. No. 1,414,052; Apr. 25.
- Smith, Claude de F., Portland, Oreg., assignor to Smith Signal Corporation, New York, N. Y. Lamp box. No. 1,402,100; Jan. 3.
- Smith, Clyde H., North Adams, Mass., assignor of one-half to G. M. Matzet (now by judicial change of name G. M. Malton), Brooklyn, N. Y. Self-adjustable line gauge. No. 1,429,785; Sept. 19.
- Smith, Clyde L., and E. S. Webster, assignors, by mesne assignments, to Smith One Heat System, South Bend, Ind. Collapsible tire core. No. 1,434,567; Nov. 7.
- Smith, Curtis E., St. Joseph, Mo. Miter joint. No. 1,416,901; May 23.
- Smith, Curtis E., St. Joseph, Mo. Hoisting apparatus. No. 1,423,971; July 25.
- Smith, Curtiss F., Detroit, Mich. Snap drum switch. No. 1,417,284; May 23.
- Smith, Dan, Esto, La. Rail joint. No. 1,429,543; Sept. 19.
- Smith, Daniel D., Valdosta, Ga. Insect destroyer. No. 1,433,856; Oct. 31.
- Smith, Daniel F., St. Louis, Mo. Clamp. No. 1,431,601; Oct. 10.
- Smith, David C., Toledo, Ohio. Automobile lock. No. 1,423,269; July 18.
- Smith, David J., London, and C. Towl, Forest Gate, Essex, England. Means for automatically operating bulkhead doors and sluice gates. No. 1,416,070; May 16.
- Smith, David J., London, England, assignor, by mesne assignments, to Automotive Gas Producer Corporation. Cooling, cleansing, and filtering device for gas. No. 1,402,676; Jan. 3.
- Smith, David J., London, England, assignor, by mesne assignments, to Automotive Gas Producer Corporation. Gas producer. No. 1,439,647; Dec. 19.
- Smith, Dell R., Blanchard, Wash. Saw handle. No. 1,405,344; Jan. 31.
- Smith, Dudley D., Perry, N. Y. Fish gaff. No. 1,413,139; Apr. 18.
- Smith, Earl D., Delphi, Ind. Can-closing machine. No. 1,428,992; Sept. 12.
- Smith, Earl H., Indianapolis, Ind. Universal joint. No. 1,412,577; Apr. 11.

Alphabetical list of patentees—Continued.

- Smith, Earl J., and H. V. Glos, assignors to Underwriters Laboratories, Inc., Chicago, Ill. Fire extinguisher. No. 1,408,541; Mar. 7.
- Smith, Edgar B., Berwyn, Ill. Toy. No. 1,434,255; Oct. 31.
- Smith, Edna R. (See Smith, Oscar W., assignor.)
- Smith, Edward, assignor to Esmith Loom and Fabric Company Limited, Bradford, England. Loom having carrier which inserts weft in loop form. No. 1,410,518; Mar. 21.
- Smith, Edward D., Erie, Pa. Bank book and savings bank combined. No. 1,423,270; July 18.
- Smith, Edward D. and R. T., Houston, Tex., assignors to T. E. Guy, trustee, Chicago, Ill. Device for washing oil wells. No. 1,436,058; Nov. 21.
- Smith, Edward M., Downey, Calif. Tug wheel for oil well. No. 1,413,879; Apr. 25.
- Smith, Edward M., Cohoes, N. Y. Puzzle. No. 1,439,336; Dec. 19.
- Smith, Edwin B., assignor to The Marion Machine Foundry and Supply Company, Marion, Ind. Grate frame. No. 1,418,483; June 6.
- Smith, Edwin C., et al., executors. (See Wardell, Simon W.)
- Smith, Edwin K., Milwaukee, assignor to Lakeside Malleable Castings Company, Racine, Wis. Apparatus for use in the treatment or annealing of castings. No. 1,406,769; Feb. 14.
- Smith, Edwin L., assignor to O. Branch, Philadelphia, Pa. Lace-braiding machine. No. 1,427,172; Aug. 20.
- Smith, Edwin W., and D. A. Cabot, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Marking machine. No. 1,438,191; Dec. 12.
- Smith, Elberon D., Brooklyn, assignor to American Machine & Foundry Company, New York, N. Y. Driving mechanism for cigarette machines. No. 1,425,801; Aug. 15.
- Smith, Eldred P., Jenkins, Ky. Demountable split rim. No. 1,436,731; Nov. 28.
- Smith, Elizabeth J., Larchmont, N. Y. Pronged eye fastener. No. 1,416,902; May 23.
- Smith, Elmer, Fond du Lac, Wis. Combined timer and distributor for internal-combustion engines. No. 1,403,203; Jan. 10.
- Smith, Elmer, Fond du Lac, Wis. Timer-supporting bracket. No. 1,405,724; Feb. 7.
- Smith, Elton W., Seattle, Wash. Railway spike. No. 1,407,893; Feb. 28.
- Smith Engineering Works. (See Sanborn, Eugene L., assignor.)
- Smith, Eric M., Seattle, Wash. Tool holder. No. 1,410,131; Mar. 21.
- Smith, Eric N., and H. H. Dillinger, Hoytville, Ohio. Steering mechanism for tractors. No. 1,408,416; Feb. 28.
- Smith, Eric N., assignor of one-half to H. H. Dillinger, Hoytville, Ohio. Controlling device for tractors. No. 1,408,231; Feb. 28.
- Smith, Ernest C., Chicago, Ill., assignor to International Harvester Company. Ratchet drive for conveyers. No. 1,413,498; Apr. 18.
- Smith, Ernest F. (See Hescocock, E. N., and Smith.)
- Smith, Ernest R., San Francisco, Calif. Rotary index. No. 1,414,754; May 2.
- Smith, Ernest R., San Francisco, Calif. Dental impression tray. No. 1,422,488; July 11.
- Smith, Eugenia M., Waseca, Minn. Mail sack. No. 1,418,403; June 6.
- Smith, Ezra S., assignor to R. F. Simmons Company, Attleboro, Mass. Belt loop for chains. No. 1,415,490; May 9.
- Smith, Floyd, Aerial Equipment Company. (See Smith, Floyd, assignor.)
- Smith, Floyd, San Diego, Calif., assignor to Floyd Smith Aerial Equipment Company. Parachute pack. No. 1,403,983; Jan. 17.
- Smith, Floyd, San Diego, Calif., assignor to Floyd Smith Aerial Equipment Company. Parachute harness. No. 1,403,984; Jan. 17.
- Smith, Floyd C., and R. Stoffel, assignors to Crouse-Hinds Company, Syracuse, N. Y. Housing for electric incandescent lamps. No. 1,431,988; Oct. 17.
- Smith, Francis P., Rye, N. Y. Expansion joint. No. 1,427,557; Aug. 29.
- Smith, Francis P., Rye, N. Y. Expansion joint. No. 1,427,558; Aug. 29.
- Smith, Frank. (See Parnell-Smith, Michael S., assignor.)
- Smith, Frank A., Orange, N. J. Shock absorber. No. 1,409,600; Mar. 14.
- Smith, Frank E., Delphos, Ohio. Holding attachment for baby chairs. No. 1,435,425; Nov. 14.
- Smith, Frank E., assignor of one-half to E. A. Dennin, Troy, N. Y. Stopping attachment for phonographs. No. 1,415,270; May 9.
- Smith, Frank H., Greenwood, Miss. Nut and washer. No. 1,406,423; Feb. 14.
- Smith, Frank L., and C. R. Hawkins, Chicago, Ill. Milling tool. No. 1,410,350; Mar. 21.
- Smith, Frank W., assignor, by mesne assignments, to Unit Motor Company, Kansas City, Mo. Internal-combustion multimotor. No. 1,423,365; July 18.
- Smith, Franklin H. (See Doty, L. E., and Smith.)
- Smith, Franklin H., Burkburnett, Tex. Crank-pin-truing tool. No. 1,434,234; Oct. 31.
- Smith, Franklin S., Philadelphia, Pa. Apparatus for treating articles by disruptive conduction. (Reissue.) No. 15,351; May 9.
- Smith, Franklin S., Philadelphia, Pa., assignor to The Products Protection Corporation, New York, N. Y. Electric condenser. No. 1,422,312; July 11.
- Smith, Fred. (See Woolley, Ernest S., assignor.)
- Smith, Fred A., Medfield, Mass. Vehicle. No. 1,419,475; June 13.
- Smith, Fred P., St. Louis, Mo. Operating device for washing machines. No. 1,403,204; Jan. 10.
- Smith, Frederick, Darby, Pa. Prepayment gas meter. No. 1,404,167; Jan. 17.
- Smith, Frederick A., Brasted, England. Ignition device for internal-combustion engines. No. 1,422,794; July 11.
- Smith, Frederick L., Grantwood, and H. P. Harris, Bayonne, N. J., assignors to F. Kauffmann, Pittsburgh, Pa. Laundry apparatus. No. 1,402,020; Jan. 3.
- Smith, Frederick R., assignor to Armstrong Siddeley Motors Limited, Coventry, Warwick, England. Change-speed-gear-operating mechanism for use on motor vehicles and the like. No. 1,439,337; Dec. 19.
- Smith, Fredrick W., Minneapolis, Minn. Tobacco pipe. No. 1,427,762; Aug. 29.
- Smith, Gary B., Chicago, Ill. Engine starter. No. 1,410,613; Mar. 28.
- Smith, Gary B., Chicago, Ill. Wire-link machine. No. 1,419,476; June 13.
- Smith, Gay, New York, N. Y. Snap-fastener container. No. 1,439,918; Dec. 26.
- Smith, George A., Victoria, British Columbia, Canada. Solid artificial fuel burner. No. 1,403,132; Jan. 10.
- Smith, George E., Hudson, Colo. Toy. No. 1,407,093; Feb. 21.
- Smith, George E., New York, N. Y. Testing device. No. 1,433,488; Oct. 24.
- Smith, George H., New York, N. Y. Lamp shade. No. 1,404,663; Jan. 24.
- Smith, George H., assignor to Eagan and Smith Manufacturing Company, Providence, R. I. Bracket for curtain rods. No. 1,402,453; Jan. 3.
- Smith, George L., Washington, D. C. Friction brake. No. 1,422,006; July 4.
- Smith, George L., and D. F. Asbury, Washington, D. C. Tank closure. No. 1,420,063; June 20.
- Smith, George L., Fort Wayne, Ind., assignor to Smith Chimes Clock Company. Electrical contactor. No. 1,431,912; Oct. 10.
- Smith, George M., St. Louis, Mo. Ice creeper. No. 1,431,989; Oct. 17.
- Smith, George O. (See Maxfield, J. P., and Smith.)
- Smith, George O., Oakland, Calif. Collar fastener. No. 1,419,696; June 13.
- Smith, George T. (See Roberts, A. R., and Smith.)
- Smith, George W., Chicago, Ill. Memorandum-pad stand and pad sheets. No. 1,422,489; July 11.
- Smith, George W., Dallas, Tex. Tire traction lug. No. 1,426,229; Aug. 15.
- Smith, Gerald F., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Car-lighting system. No. 1,417,696; May 30.
- Smith, Gerald F., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Car-lighting system. No. 1,433,749; Oct. 31.
- Smith, Goodwin B., assignor to The Junoform Company, Philadelphia, Pa. Vending machine. No. 1,417,578; May 30.
- Smith, Gordon, et al. (See Soutullo, Raymond J., assignor.) (Reissue.)
- Smith, H. D., & Company, The. (See Thomson, William S., assignor.)
- Smith, Hampton M., Greenville, S. C. Loom harness stop motion. No. 1,420,390; June 20.
- Smith, Harold, Mitcham, and M. H. Paine, Woking, England. Internal-combustion engine. No. 1,413,363; Apr. 18.
- Smith, Harold E. (See Wood, W. H., and Smith.)
- Smith, Harry B., Brooklyn, N. Y. Method of and mechanism for making covered box shells. No. 1,402,259; Jan. 3.
- Smith, Harry B., Brooklyn, N. Y. Making covered paper boxes. No. 1,402,260; Jan. 3.
- Smith, Harry B., New York, N. Y. Making boxes and box blanks. No. 1,402,261; Jan. 3.
- Smith, Harry B., Albany, N. Y. Bleaching material. No. 1,404,242; Jan. 24.
- Smith, Harry B., Brooklyn, N. Y. Box and making the same. No. 1,408,479; Mar. 7.
- Smith, Harry B., Brooklyn, N. Y. Paper box construction. No. 1,437,214; Nov. 28.
- Smith, Harry F., Lexington, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Furnace. No. 1,416,990; May 23.
- Smith, Harry F., assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Apparatus for maintaining constant heat value. No. 1,417,635; May 30.
- Smith, Harry F., assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Preventing wall action. No. 1,417,636; May 30.

Alphabetical list of patentees—Continued.

- Smith, Harry F., assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Fuel agitation. No. 1,417,637; May 30.
- Smith, Harry F., assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Manifold. No. 1,421,034; June 27.
- Smith, Harry F., Lexington, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Fuel distributor. No. 1,425,145; Aug. 8.
- Smith, Harry F., assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Gas purification. No. 1,430,696; Oct. 3.
- Smith, Harry G. (See McLendon, O. P., and Smith.)
- Smith, Harry L., Gleezen, Ind. Fishing tool. No. 1,402,677; Jan. 3.
- Smith, Harry J., Bellevue Borough, Pa. Ventilating device. No. 1,402,101; Jan. 3.
- Smith, Harry J., Lakewood, Ohio. Mounting for wheels. No. 1,418,404; June 6.
- Smith, Harry J., Lakewood, Ohio. Clutch. No. 1,431,053; Oct. 3.
- Smith, Harry M., Seattle, Wash. Holder for containers. No. 1,425,707; Aug. 15.
- Smith, Harry N., assignor to Watertown Table Slide Company, Watertown, Wis. Extension-table slide. No. 1,422,142; July 11.
- Smith, Harry O., Los Angeles, Calif. Fastener. No. 1,409,034; Mar. 7.
- Smith, Harry O., Los Angeles, Calif. Fastener. No. 1,409,069; Mar. 7.
- Smith, Harry R. (See Anderson, H. A., and Smith.)
- Smith, Harry W., Akron, Ohio. Golf appliance and exercising device. No. 1,439,338; Dec. 19.
- Smith, Harry W., Akron, Ohio. Golf practicing and exercising device. No. 1,439,339; Dec. 19.
- Smith, Harry W., Akron, assignor of one-fourth to G. J. Renner, Youngstown, and one-fourth to E. C. Deibel, Akron, Ohio. Handle grip. No. 1,435,088; Nov. 7.
- Smith, Harvey E., Newport, Ark. Rotary engine. No. 1,407,094; Feb. 21.
- Smith, Harvey N., Allentown, and G. A. Wartman, Bethlehem, Pa. Heater. No. 1,430,413; Sept. 26.
- Smith, Helen Ericson. (See Ericson Smith, Helen.)
- Smith, Henry L., Paterson, N. J. Vision shield. No. 1,419,321; June 13.
- Smith, Henry L., Paterson, N. J. Shield. No. 1,419,322; June 13.
- Smith, Henry L., Paterson, N. J. Steering-wheel lock for vehicles. No. 1,423,632; July 25.
- Smith, Henry L., Paterson, N. J. Swimming harness. No. 1,423,633; July 25.
- Smith, Henry L., assignor to The E. J. Manville Machine Company, Waterbury, Conn. Metal-heading machine. No. 1,437,918; Dec. 5.
- Smith, Henry L., assignor to The E. J. Manville Machine Company, Waterbury, Conn. Knockout mechanism for heading machines. No. 1,437,919; Dec. 5.
- Smith, Henry L., assignor to The E. J. Manville Machine Company, Waterbury, Conn. Feed mechanism for heading machines. No. 1,439,532; Dec. 19.
- Smith, Henry S. (See Skinner, H. O., and Smith.)
- Smith, Henry V., Chester, Pa. Adjustable surgical splint. No. 1,418,486; June 6.
- Smith, Herbert M., Farmington, Conn. Electrical connection. No. 1,428,863; Sept. 12.
- Smith, Herbert M., Farmington, assignor to Landers, Frary & Clark, New Britain, Conn. Buffing wheel. No. 1,413,942; Apr. 25.
- Smith, Herbert M., assignor to Stanley Insulating Company, Great Barrington, Mass. Producing and applying enamel coatings to metallic surfaces. No. 1,425,612; Aug. 15.
- Smith, Herbert M., assignor to Stanley Insulating Company, Great Barrington, Mass. Metallic receptacle and making the same. No. 1,429,698; Sept. 19.
- Smith, Herbert M., assignor to Stanley Insulating Company, Great Barrington, Mass. Heat-insulated receptacle. No. 1,431,189; Oct. 10.
- Smith, Herbert M., assignor to Stanley Insulating Company, Great Barrington, Mass. Means for testing tubes with compressed air. No. 1,431,704; Oct. 10.
- Smith, Herman R., Brooklyn, assignor to Raymond Concrete Pile Company, New York, N. Y. Bedsill for pile drivers. No. 1,407,003; Feb. 21.
- Smith, Homer P., assignor to Solding Locks Hairpin Company, Appleton, Wis. Hairpin separating and measuring machine. No. 1,406,587; Feb. 14.
- Smith, Homer P., assignor to Margaret Smith, Appleton, Wis. Hairpin-crimping machinery. No. 1,430,331; Sept. 26.
- Smith, Horace L., Jr. (See Smith, Horace L.)
- Smith, Horace L., Prince George County, Va. Corn-husking machine. No. 1,417,356; May 23.
- Smith, Horace L., and H. L. Smith, Jr., Prince George County, Va. Apparatus for shelling nuts. No. 1,418,840; June 6.
- Smith, Horace M., assignor to Liquid Carbonic Company, Chicago, Ill. Machine for filling bottles with charged beverages. No. 1,419,697; June 13.
- Smith, Horace M., assignor to Liquid Carbonic Company, Chicago, Ill. Bottle-filling machine. No. 1,436,732; Nov. 28.
- Smith, Howard S., Winnipeg, Manitoba, Canada. Combination tie and collar fastener. No. 1,413,692; Apr. 25.
- Smith, Hubert L., Avonmore, Pa. Automatic pump stop. No. 1,420,769; June 27.
- Smith, Hugh B., University Place, Nebr. Folding table. No. 1,422,313; July 11.
- Smith, Hunter, jr., assignor of three-fourths to J. T. Lawler, Seattle, Wash. Child's vehicle. No. 1,430,857; Oct. 3.
- Smith, Hurley H., Elkhart, Ind. Combination lock. No. 1,430,332; Sept. 26.
- Smith, Hyde, Putnam, Conn. Accelerator. No. 1,434,319; Oct. 31.
- Smith, Isaac T., Rocky Mount, N. C. Card game. No. 1,409,035; Mar. 7.
- Smith, Jacob, Lebanon, Pa. Protecting apparatus for banks or the like. No. 1,433,489; Oct. 24.
- Smith, Jacob K. (See Lego, James C., assignor.)
- Smith, James, Glasgow, Scotland. Liquid-fuel burner. No. 1,429,373; Sept. 19.
- Smith, James, Chicago, Ill., assignor to New Process Copper Castings Company, Pittsburgh, Pa. Bosh plate. No. 1,434,849; Nov. 7.
- Smith, James, Chicago, Ill., assignor to New Process Copper Castings Company. Process and apparatus for casting Bosh plates. No. 1,438,271; Dec. 12.
- Smith, James A., Chicago, Ill. Attachment for shoe stands. No. 1,412,200; Apr. 11.
- Smith, James E., St. Louis, Mo. Seesaw. No. 1,434,850; Nov. 7.
- Smith, James F., Birmingham, England. Bulb for pneumatic warning horns. No. 1,427,497; Aug. 29.
- Smith, James F., assignor of one-third to A. F. Ittner and one-third to A. H. Bradley, St. Louis, Mo. Sound box for talking machines. No. 1,412,294; Apr. 11.
- Smith, James F., assignor of one-third to A. F. Ittner and one-third to A. H. Bradley, St. Louis, Mo. Talking machine. No. 1,439,533; Dec. 19.
- Smith, James H., Elza, Ga., assignor to C. A. Welch and W. F. Milligan, Portland, Ind. Spark-plug intensifier and tester. No. 1,409,253; Mar. 14.
- Smith, James H., jr., Passaic, N. J. Method and apparatus for making vehicle wheel tires. No. 1,439,197; Dec. 19.
- Smith, James P., Hampton Roads, Va. Buckle. No. 1,406,770; Feb. 14.
- Smith, James T. (See Anderson, C. L., and Smith.)
- Smith, James T. (See Randall, C. F., Clark, and Smith.)
- Smith, James T., S. S. Wilkins, and J. M. Manning, Portland, Oreg. Shock absorber. No. 1,418,484; June 6.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,402,304; Jan. 10.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,412,374; Apr. 11.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Ledger sheet. No. 1,415,904; May 16.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Ledger sheet. No. 1,416,239; May 16.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,419,648; June 13.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,419,649; June 13.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,419,698; June 13.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,419,991; June 20.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,425,293; Aug. 8.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,425,910; Aug. 15.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Work web for typewriters. No. 1,428,264; Sept. 5.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,428,265; Sept. 5.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,428,864; Sept. 12.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,433,857; Oct. 31.
- Smith, Jesse A. B., Fairfield, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Invoice sheet. No. 1,428,266; Sept. 5.
- Smith, Jesse E., Hollywood, Calif. Auxiliary organ keyboard for tuning. No. 1,434,568; Nov. 7.
- Smith, John, Brooklyn, N. Y. Battery. No. 1,402,185; Jan. 3.
- Smith, John A., assignor to Thumthum Products, Inc., Spokane, Wash. Glove. No. 1,418,103; May 30.
- Smith, John B., assignor to Shaw-Welsh & Company, Galesburg, Ill. Broom-corn-cleaning machine. No. 1,438,192; Dec. 12.

Alphabetical list of patentees—Continued.

- Smith, John D., Richmond, Va., assignor to Liggett & Myers Tobacco Company, New York, N. Y. Labeling machine. No. 1,402,262; Jan. 3.
- Smith, John E., New York, N. Y., assignor of one-third to T. T. Gault and one-third to W. D. N. Perine, New York, N. Y. Gas engine. No. 1,418,209; May 30.
- Smith, John F., Wooster, assignor of one-half to C. M. Jeffries, Apple Creek, Ohio. Rotary pump. No. 1,417,418; May 23.
- Smith, John G., Jackson, Tenn. Ship protector. No. 1,433,243; Oct. 24.
- Smith, John H., Detroit, Mich. Stairway. No. 1,412,899; Apr. 18.
- Smith, John H., London, R. H. Brand, Ascot, England, and T. G. Leith, Oyne, Scotland. Driving belt or chain. No. 1,407,598; Feb. 21.
- Smith, John H., assignor, by mesne assignments, to The Eclipse Interchangeable Counterbore Company, Detroit, Mich. Boring tool. No. 1,418,485; June 6.
- Smith, John H., assignor to The Eclipse Interchangeable Counterbore Company, Detroit, Mich. Counterboring tool. No. 1,424,743; Aug. 1.
- Smith, John J., Winnipeg, Manitoba, Canada. Combined tube expander and beading tool. No. 1,423,545; July 25.
- Smith, John J., Chicago, Ill. Supporting means for automobile lights. No. 1,431,267; Oct. 10.
- Smith, John P. (See Crain, P. M., and Smith.)
- Smith, John P., assignor to The John P. Smith & Co., New Haven, Conn. Joint for sectional fire screens. No. 1,413,364; Apr. 18.
- Smith, John P., & Co., The. (See Smith, John P., assignor.)
- Smith, John W., West Carthage, N. Y. Attachment for paper-machine driers. No. 1,420,454; June 20.
- Smith, John W., assignor to United-Stores Supply Company, Minneapolis, Minn. Cleaning powder. No. 1,416,240; May 16.
- Smith, Joseph N., & Company. (See Chamberlin, Clarence P., assignor.)
- Smith, Julian H., assignor to Specialty Manufacturing Company, Seattle, Wash. Photographic-printing machine. No. 1,426,117; Aug. 15.
- Smith, L. A., Iron Works. (See Meltz, Julius B., assignor.)
- Smith, La Motte, Syracuse, N. Y. Support and shock absorber for typewriters. No. 1,434,923; Nov. 7.
- Smith, Launcelot E. (See Zulver, C., and Smith.)
- Smith-Lee Company, The. (See Baltzley, Oren F., assignor.)
- Smith-Lee Company, The, et al. (See Peterson, Edwin A., assignor.)
- Smith-Lee Company, The. (See Smith, Wilbert L., assignor.)
- Smith, Lilly B. (See White, John S., assignor.)
- Smith, Lloyd H., assignor to Texas Steel Highway Marker Association, Waco, Tex. Road marker. No. 1,426,420; Aug. 22.
- Smith, Lonzo B., Richmond, W. Va., assignor of one-half to W. B. Shreve, Akron, Ohio. Ventilator. No. 1,430,599; Oct. 3.
- Smith, Louis, assignor of one-half to W. L. Hall, Chicago, Ill. Proof and transfer press. (Reissue.) No. 15,481; Oct. 31.
- Smith, Lybrand P., Decatur, Ill. Water-elevating device. No. 1,412,424; Apr. 11.
- Smith, Lula M. (See Cookson, William S., assignor.)
- Smith, Mabel O., et al. (See Smith, William B., assignor.)
- Smith, Margaret. (See Smith, Homer F., assignor.)
- Smith, Margaret L. H. (See Allen, Harry H., assignor.)
- Smith, Marion A., Salt Lake City, Utah. Beet-topping device. No. 1,439,026; Dec. 19.
- Smith, Mark N., Yorkers, N. Y., assignor of one-half to J. R. Dumont, Kansas City, Mo. Coin-operated lock. No. 1,432,306; Oct. 17.
- Smith, Marshall O., and E. A. Mahannah, Niagara Falls, N. Y. Auto signal. No. 1,407,444; Feb. 21.
- Smith, Martin E., Corvallis, Oreg. Receptacle. No. 1,420,293; June 20.
- Smith, Martin W. (See Nicholls, J. S. C., and Smith.)
- Smith, Maurice O., Dallas, Tex. Fuel vaporizer for carburetors. No. 1,405,633; Feb. 7.
- Smith, Maxwell M., Henley-on-Thames, England. Constructing walls or buildings. No. 1,402,906; Jan. 10.
- Smith, Nelson K., Dallas, Tex. Releasing device for pipe wrenches. No. 1,428,121; Sept. 5.
- Smith, Newton A., Marion, assignor of one-half to C. Wood, Cambria, Ill. Tank. No. 1,439,768; Dec. 26.
- Smith, Oberlin, Bridgeton, N. J. Toy. No. 1,420,584; June 20.
- Smith, Oliver P., Portland, Oreg. Grain cutting and grading machine. No. 1,403,455; Jan. 10.
- Smith, Oliver P., Chicago, Ill. Cap lock. No. 1,434,161; Oct. 31.
- Smith One Heat System. (See Smith, C. L., and Webster, assignors.)
- Smith, Oscar A., East Cleveland, and G. J. Leber, Cleveland, Ohio. File. No. 1,405,024; Jan. 31.
- Smith, Oscar A., assignor of one-half to W. R. Mitchell, Cleveland, Ohio. Binding post. No. 1,420,770; June 27.
- Smith, Oscar A., assignor of one-half to W. R. Mitchell, Cleveland, Ohio. Binding post. No. 1,420,771; June 27.
- Smith, Oscar L., Philadelphia, Pa. Fiber-shipping-case-sealing machine. No. 1,436,413; Nov. 21.
- Smith, Oscar L., and H. S. Normand, Philadelphia, Pa., assignors to Consolidated American Fastener Companies, Inc., New York, N. Y. Machine for making snap fasteners. No. 1,431,990; Oct. 17.
- Smith, Oscar W., assignor to E. R. Smith, Carlisle, Ark. Ditching and levee-building apparatus. No. 1,413,803; Apr. 25.
- Smith, Otto B., Glen Morris, N. Y. Saw guard. No. 1,428,986; Sept. 12.
- Smith, Owen P., Chicago, Ill. Dog-racing amusement. No. 1,410,842; Mar. 28.
- Smith, P. H. W., et al, executors. (See Davis, C. W., and Brown.)
- Smith, Patrick L., Greenwood, Ark. Safety motor crank. No. 1,438,465; Dec. 12.
- Smith, Percy F., Kent, assignor to Tilling-Stevens Limited, Maidstone, Kent, England. Means of control for petrol electric vehicles. No. 1,405,345; Jan. 31.
- Smith, Perry C., Chicago, Ill. Lubricating coupling. No. 1,408,836; Mar. 7.
- Smith, Peter H., St. Paul, Minn. Limousine body for body carriages. No. 1,403,451; Jan. 10.
- Smith, Peter J., assignor to Commonwealth Edison Company, Chicago, Ill. Electrical fuse. No. 1,419,114; June 6.
- Smith, Pliny W., Rochester, N. Y. Developing tank. No. 1,424,423; Aug. 1.
- Smith, Primus W., and J. J. Bookhout, Dallas, Tex. Blade for well-drilling devices. No. 1,426,681; Aug. 22.
- Smith, Primus W., Junction City, assignor of one-eighth to J. J. Bookhout and J. R. Bookhout, Dallas County, Tex. Well-drilling bit. No. 1,428,122; Sept. 5.
- Smith, Ralph W. B., Portland, Me. Lock for mail bags. No. 1,433,858; Oct. 31.
- Smith, Randolph, Baltimore, Md. Dispensing receptacle. No. 1,411,812; Apr. 4.
- Smith, Raymond D., Boston, Mass., assignor to Shawmut Machine Works, Inc. Delayed cut-off for gas burners. No. 1,415,062; May 9.
- Smith, Raymond D., Boston, Mass., assignor to Shawmut Machine Works, Inc. Delayed cut-off arrangement for mantle gas lamps. No. 1,415,063; May 9.
- Smith, Raymond D., Boston, Mass., assignor to Shawmut Machine Works, Inc. Pull-socket switch. No. 1,421,853; July 4.
- Smith, Raymond G., Moss Beach, Calif. Signaling device. No. 1,417,419; May 23.
- Smith, Rebah T. (See Smith, Edward D. and R. T.)
- Smith, Reinold V., Eureka, Utah. Method and apparatus for separating ore. No. 1,407,229; Feb. 21.
- Smith, Reuben S., assignor to A. O. Smith Corporation, Milwaukee, Wis. Tension indicator for drawing presses. No. 1,417,579; May 30.
- Smith, Reuben S., and T. Hansen, assignors to A. O. Smith Corporation, Milwaukee, Wis. Lapping mechanism. No. 1,417,580; May 30.
- Smith, Reuben S., and T. Hansen, assignors to A. O. Smith Corporation, Milwaukee, Wis. Lapping press. No. 1,417,581; May 30.
- Smith, Reuben S., and H. Miller, assignors to A. O. Smith Corporation, Milwaukee, Wis. Drawing and lapping press. No. 1,421,035; June 27.
- Smith, Reuben S., and E. W. Burgess, assignors to A. O. Smith Corporation, Milwaukee, Wis. Machine for pickling metal plates and blanks. No. 1,423,716; Sept. 12.
- Smith, Reuben S., and T. Hansen, assignors to A. O. Smith Corporation, Milwaukee, Wis. Method of and blank for producing vehicle frame parts. No. 1,433,161; Oct. 24.
- Smith, Robert A., assignor to Smith & Serrell, Mahwah, N. J. Driving key and fitting the same. No. 1,439,769; Dec. 26.
- Smith, Robert A., assignor to Smith & Serrell, Mahwah, N. J. Self-fitting key device. No. 1,439,770; Dec. 26.
- Smith, Robert A., Mahwah, and J. J. Serrell, Elizabeth, assignors to Smith & Serrell, Mahwah, N. J. Flexible coupling. No. 1,403,271; Jan. 10.
- Smith, Robert A., Mahwah, and J. J. Serrell, Elizabeth, assignors to Smith & Serrell, Mahwah, N. J. Flexible power coupling. No. 1,403,272; Jan. 10.
- Smith, Robert E. L., Holland, Mo. Tool. No. 1,429,977; Sept. 26.
- Smith, Robert G., Newark, N. J. Tool. No. 1,418,983; June 6.
- Smith, Robert L., Los Angeles, Calif. Stock-car door. No. 1,421,105; June 27.
- Smith, Robert L., Brooklyn, N. Y. Combination furniture. No. 1,437,782; Dec. 5.
- Smith, Robert R., Chester, Pa. Crib or bed cover. No. 1,426,230; Aug. 15.
- Smith, Robert R., Brooklyn, N. Y. Corner fastening for bedsteads. No. 1,430,123; Sept. 26.
- Smith, Robert T., Warrington, England. Wheel for vehicles. No. 1,402,678; Jan. 3.
- Smith, Roland L., Belmont, Mass. Resurfacing fibrous materials. No. 1,402,976; Jan. 10.
- Smith, Roland L., Belmont, assignor of forty per cent to W. H. Forrest, Stoneham, Mass. Bathing tent. No. 1,409,316; Mar. 14.
- Smith, Roy E., Iuka, Ill. Grain door. No. 1,423,040; July 18.
- Smith, Roy H., Kent, Ohio. Making tools. No. 1,407,894; Feb. 28.

Alphabetical list of patentees—Continued.

- Smith, Rufus C., Huntington, W. Va. Necktie-display stand. No. 1,414,902; May 2.
- Smith, Samuel K., Chicago, Ill. Loose-leaf binder. No. 1,408,480; Mar. 7.
- Smith, Samuel L. (See Herpst, H. D., and Smith.)
- Smith, Scale Company, The. (See Smith, Walter S., assignor.)
- Smith, Schuyler A., East St. Louis, Ill. Packing. No. 1,411,197; Mar. 28.
- Smith, Sidney S., Gerlach, Nev. Lubricating system for mowing machines. No. 1,408,782; Mar. 7.
- Smith Signal Corporation. (See Smith, Claude de F., assignor.)
- Smith, Silas J., Chatham, Ontario, Canada. Fertilizer. No. 1,402,102; Jan. 3.
- Smith, Swan, White Bear, Minn. Creasing machine. No. 1,434,162; Oct. 31.
- Smith, Temple C., East Orange, N. J., assignor to American Telephone and Telegraph Company. Carriage for conveying drums of electric cables. No. 1,436,733; Nov. 28.
- Smith, Theodore D. C., South Porcupine, Ontario, Canada. Culinary vessel. No. 1,417,582; May 30.
- Smith, Thomas D., New York, N. Y. Scouring wool. No. 1,405,560; Feb. 7.
- Smith, Thomas H., Jamestown, N. Y. Union suit. No. 1,428,504; Sept. 5.
- Smith, Thomas W., South St. Paul, Minn. Vanity case. No. 1,431,336; Oct. 10.
- Smith, Viola A., New York, N. Y. Adjustable bust-confining garment. No. 1,406,692; Feb. 14.
- Smith, Wallace W., Prairie City, Oreg. Mole trap. No. 1,438,561; Dec. 12.
- Smith, Walter, London, England. Treatment of clays and in the manufacture of articles and materials therefrom. No. 1,432,629; Oct. 17.
- Smith, Walter H., assignor to Miller Saw-Trimmer Company, Pittsburgh, Pa. Printing press. No. 1,404,554; Jan. 24.
- Smith, Walter H., assignor to Miller Saw-Trimmer Company, Pittsburgh, Pa. Sheet-registering device. No. 1,419,175; June 13.
- Smith, Walter J., Camden, N. J. Doweling machine. No. 1,438,562; Dec. 12.
- Smith, Walter O., New Bedford, Mass. Renewable fuse. No. 1,436,919; Nov. 28.
- Smith, Walter O., and J. E. Grenache, assignor to Ree-Nu-It Electric Manufacturing Company, New Bedford, Mass. Renewable fuse. No. 1,407,706; Feb. 28.
- Smith, Walter S., assignor to The Smith Scale Company, Columbus, Ohio. Scale. No. 1,405,634; Feb. 7.
- Smith, Walter S., assignor to The Smith Scale Company, Columbus, Ohio. Scale. No. 1,410,614; Mar. 28.
- Smith, Watson R., Jackson, Mich. Spring structure. No. 1,425,345; Aug. 8.
- Smith, Wellington J., Cleveland, Ohio. Tool holder. No. 1,409,254; Mar. 14.
- Smith, Weston R., Jackson, Mich. Electric-bulb protector. No. 1,403,273; Jan. 10.
- Smith, Whitcomb & Cook Co. (See Philbrick, Orie E., assignor.)
- Smith, Wilbert L., Syracuse, N. Y., assignor to The Smith-Lee Company, Oneida, N. Y. Bottle cap. No. 1,402,454; Jan. 3.
- Smith, Wilbur, Spring Green, Wis. Snow-clearing attachment for automobiles. No. 1,407,895; Feb. 28.
- Smith, Willard D., St. Louis, Mo. Filling station. No. 1,410,418; Mar. 21.
- Smith, William, Olean, N. Y. Sanitary or hygienic cuspidor. No. 1,408,542; Mar. 7.
- Smith, William, Gainsboro, Tenn. Water motor. No. 1,439,848; Dec. 26.
- Smith, William A., Lynn, Mass. Core making. No. 1,428,993; Sept. 12.
- Smith, William A., Detroit, Mich., assignor to Ingersoll-Rand Company, New York, N. Y. Air-feed control for rock drills. No. 1,406,906; Feb. 14.
- Smith, William A., Detroit, Mich., assignor to Ingersoll-Rand Company, Jersey City, N. J. Air-feed control for rock drills. No. 1,406,907; Feb. 14.
- Smith, William A., Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J. Air-feed control for rock drills. No. 1,406,908; Feb. 14.
- Smith, William A., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Automatic air-feed control for rock drills. No. 1,413,499; Apr. 18.
- Smith, William A., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Rock drill. No. 1,414,224; Apr. 25.
- Smith, William A., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Rock drill. No. 1,414,225; Apr. 25.
- Smith, William A., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Rock drill. No. 1,415,957; May 16.
- Smith, William A., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Automatic air-feed control for rock drills. No. 1,415,958; May 16.
- Smith, William A., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Rock drill. No. 1,418,333; June 6.
- Smith, William A., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Rock drill. No. 1,424,188; Aug. 1.
- Smith, William A., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Rock drill. No. 1,429,786; Sept. 19.
- Smith, William A., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Rock drill. No. 1,430,764; Oct. 3.
- Smith, William A., assignor of one-half to E. A. Brumitt, Codell, Kans. Carburetor attachment for explosive engines. No. 1,432,630; Oct. 17.
- Smith, William B., Lawrenceville, Ill. Tank-car heater. No. 1,412,756; Apr. 11.
- Smith, William B., Chicago, Ill. Means for holding fittings in bags. No. 1,430,333; Sept. 26.
- Smith, William B., assignor of one-third to M. O. Smith, one-third to G. E. Beechwood, eleven ninety-sixths to R. C. McCandlish, Washington, D. C., and seven thirty-seconds to R. C. McCandlish as trustee for H. Y. McCandlish. Frozen food product. No. 1,434,070; Oct. 31.
- Smith, William E. (See James, C. E., and Smith.)
- Smith, William H., Paterson, N. J. Shoe rack. No. 1,404,555; Jan. 24.
- Smith, William H., Pasadena, Calif. Apparatus for hospital and maternity use. No. 1,409,255; Mar. 14.
- Smith, William H., Thames Ditton, England. Guiding means to aid in laying walls of blocks. No. 1,414,755; May 2.
- Smith, William H., Newark, N. J. Bag. No. 1,430,267; Sept. 26.
- Smith, William H., assignor of one-fourth to G. P. Davis and one-fourth to W. J. Dawes, Halls, Tenn. Self-dumping paddle wheel. No. 1,409,036; Mar. 7.
- Smith, William H., assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio. Alloy. No. 1,424,782; Aug. 8.
- Smith, William I. (See Christenson, Ernst, assignor.)
- Smith, William I., Gary, Ind. Chill. No. 1,421,596; July 4.
- Smith, William J., administrator. (See Noble, Eldridge H.)
- Smith, William J., St. Paul, Minn. Truck. No. 1,405,168; Jan. 31.
- Smith, William J., St. Paul, Minn. Car heater. No. 1,439,717; Dec. 26.
- Smith, William R. (See Lewinski, Alexander, assignor.)
- Smith, William R., Verdon, Nebr. Hen nest. No. 1,435,670; Nov. 14.
- Smith, William R., Buffalo, N. Y. Faucet for glass tanks. No. 1,439,198; Dec. 19.
- Smith, William S., Newport News, Va. Cushion lock. No. 1,411,942; Apr. 4.
- Smith, William S., Baltimore, Md., and F. S. Williams, Philadelphia, Pa. Camera. No. 1,419,323; June 13.
- Smith, William T. (See Julian, Earnest E., assignor.)
- Smith, William T., Coatesville, assignor of one-half to W. R. Thomas, Philadelphia, Pa. Safety gas valve. No. 1,403,351; Jan. 10.
- Smith, William W., Hawthorne, Calif. Incubator. No. 1,428,813; Sept. 12.
- Smith, Willis J. (See Bilterman, J. A., and Smith.)
- Smith, Willis R. (See Gifford, W. E., and Smith.)
- Smith & Davis Mfg. Co. (See Izen, Alexander, assignor.)
- Smith & Serrell. (See Serrell, J. J., and Shepherd, assignors.)
- Smith and Serrell. (See Serrell, John J., assignor.)
- Smith & Serrell. (See Smith, R. A., and Serrell, assignors.)
- Smith & Serrell. (See Smith, Robert A., assignor.)
- Smith & Sons Manufacturing Company. (See Stolz, Paul L., assignor.)
- Smith & Wesson. (See Pomeroy, Edward S., assignor.)
- Smithe, F. L., Machine Company. (See Fish, Edward, assignor.)
- Smithe, F. L., Machine Company. (See Novick, Abraham, assignor.)
- Smithe, Ferdinand L. (See Novick, A., and Fish, assignors.)
- Smithe, Ferdinand L. (See Novick, A., and Fish, assignors.) (Reissue.)
- Smith's, John E., Sons Co. (See De Simone, Michel G., assignor.)
- Smith's John E., Sons Company. (See Knowlton, Eugene W., assignor.)
- Smits, Wijtse B., Dillmen, Netherlands. Electric heating apparatus. No. 1,414,226; Apr. 25.
- Smook, William W. (See Stimson, Samuel C., assignor.)
- Smock, Howard A., Indianapolis, Ind. Manufacturing steam and hot-water boilers. No. 1,405,346; Jan. 31.
- Smoot, Charles H. (See Caracristi, V. Z., and Smoot.)
- Smoot, James E., Concord, N. C. Holder for pencils and erasers. No. 1,428,188; Sept. 5.
- Smoot, John H. (See Stock, J. J., and Smoot.)
- Smothers, Elisha J., O. S. Banks, and J. Golobich, Pittsburgh, Pa. Trolley wheel. No. 1,404,664; Jan. 24.
- Smuski, Theodore J., Chicago, Ill., assignor to O. E. Joseph, Detroit, Mich. Road recorder and indicator. No. 1,429,374; Sept. 19.
- Smuski, Theodore J., assignor to The Mileometer Company, Chicago, Ill. Road recorder and indicator. No. 1,433,665; Oct. 31.
- Smurr, Samuel P., assignor to Variety Manufacturing Company, Chicago, Ill. Closure operator. No. 1,416,071; May 16.
- Smutz, George W., San Jose, Calif. Amusement device. No. 1,420,225; June 20.

Alphabetical list of patentees—Continued.

- Smyth, Samuel E., Denver, Colo. Cleaning compound. No. 1,429,978; Sept. 26.
- Smythe, Edwin H., Jr. (See Smythe, William W., Jr., assignor.)
- Smythe, James, Dines, Wyo. Shoe-shining machine. No. 1,421,597; July 4.
- Smythe, Thomas E., Hammond, Ind. Pneumatic water elevator. No. 1,409,476; Mar. 14.
- Smythe, William W., Jr., assignor to E. H. Smythe, Jr., Chicago, Ill. Conduit and installing same. No. 1,403,352; Jan. 10.
- Smythe, William W., Jr., assignor to The Graphic Score Book Company, Park Ridge, Ill. Graphic chart. No. 1,405,169; Jan. 31.
- Smythe, William W., Jr., assignor to The Graphic Score Book Company, Park Ridge, Ill. Record sheet. No. 1,407,095; Feb. 21.
- Snadecki, William J., Bridgeport, Conn., assignor to R. Crane, Washington, D. C. Internal-combustion engine. No. 1,422,143; July 11.
- Snaman, William E., Pittsburgh, Pa. Shock absorber. No. 1,424,783; Aug. 8.
- Snapp, Leroy F., Malden, Mass. Swimming appliance. No. 1,430,600; Oct. 3.
- Snaveley, Clarence S., Wilksburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Manufacture of contact fingers for electrical instruments. No. 1,404,488; Jan. 24.
- Snead & Company. (See Macdonald, Harry P., assignor.)
- Sneddon, Andrew. (See Lowe, W. J., and Sneddon.)
- Snedeker, Charles O., Bloomington, Ill. Cushion tire. No. 1,421,106; June 27.
- Snedeker, Charles W., Kingston, N. Y. Lock. No. 1,430,196; Sept. 26.
- Sneed, John L. T., Walters, Okla. Rotary toothbrush. No. 1,407,956; Feb. 28.
- Snell, Frank, et al. (See Geiger, Joseph, assignor.)
- Snell, Lancelot H. (See Snell, Sheridan S. and L. H.)
- Snell, Lyle K., assignor to Cadillac Motor Car Company, Detroit, Mich. Supply and exhaust manifold for internal-combustion engines. No. 1,403,353; Jan. 10.
- Snell, Lyle K., assignor to The Willys-Overland Company, Toledo, Ohio. Automobile body. No. 1,439,919; Dec. 26.
- Snell, Owers C., Dallas, Tex. Socket wrench. No. 1,426,682; Aug. 22.
- Snell, Robert T., Cleveland, Ohio. Gripper for printing presses. No. 1,405,949; Feb. 7.
- Snell, Sheridan S. and L. H., Masontown, Pa. Duplex safety-clutch control. No. 1,421,317; June 27.
- Snelling, Walter, and L. H. Bellavoine, Paris, assignors to Societe Anonyme de Publications Periodiques, Paris, Seine, France. Typographic composing machine. No. 1,411,752; Apr. 4.
- Snelling, Walter O., Allentown, Pa. Electric water heater. No. 1,402,021; Jan. 3.
- Snelling, Walter O., Long Island City, N. Y. Apparatus for refining hydrocarbons. No. 1,402,455; Jan. 3.
- Snelling, Walter O., Allentown, Pa. Photochemical process. No. 1,420,346; June 20.
- Snelling, Walter O., Allentown, Pa. Preparation of halogen compounds. No. 1,421,733; July 4.
- Snelling, Walter O., Allentown, Pa. Vulcanized oil product. No. 1,430,034; Sept. 26.
- Snelling, Walter O., Allentown, Pa. Manufacture of acids. No. 1,430,035; Sept. 26.
- Snelling, Walter O., Allentown, Pa. Plastic product. No. 1,430,036; Sept. 26.
- Snelling, Walter O., assignor to Trojan Powder Co., Allentown, Pa. Fertilizer. No. 1,410,037; Mar. 21.
- Snickers, Edward I., Shelton, Wash. Umbrella and cane holder. No. 1,406,097; Feb. 7.
- Snideman, Clara J., assignor to Wabash Sanitary Company, Wabash, Ind. Detachable tray for high chairs. No. 1,428,916; Sept. 12.
- Snider, Charles A., Atlanta, Ga. Revolving swing. No. 1,403,205; Jan. 10.
- Snider, Charles H., Mount Pleasant, Mich. Mounting for slide doors and windows. No. 1,408,543; Mar. 7.
- Snider, Charles M., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Sheave wheel. No. 1,433,914; Oct. 31.
- Snider, Jasper F., Clare, Mich. Needle. No. 1,417,357; May 23.
- Snider, T. A., Preserve Company, The. (See Street, Wade L., assignor.)
- Snively, Wilson J., Mount Pleasant Township, Westmoreland County, Pa., assignor to one-half to W. I. Hunter, Greensburg, Pa. Drainage system. No. 1,405,725; Feb. 7.
- Snodgrass, Charles W., Mannington, W. Va. Tire-chain-attaching device. No. 1,437,158; Nov. 28.
- Snodgrass, Joseph C. (See Landis, A. L., and Snodgrass.)
- Snook, Richard, New York, N. Y. Curtain. No. 1,420,455; June 20.
- Snoen, Kornelius N., Everett, Mass. Pasteurization of milk. No. 1,439,027; Dec. 19.
- Snook, Frederick J., Salisbury, England. Cover for hermetically-sealed tins. No. 1,418,029; May 30.
- Snook, H. E. (See Johnson, Clarence S., assignor.)
- Snook, Henry C., Independence, Kans. Combined ironing board, stepladder, and house truck. No. 1,423,366; July 18.
- Snook, Homer C., South Orange, and O. E. Buckley, Maplewood, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Vacuum pump. No. 1,434,851; Nov. 7.
- Snook, Wilbur A., Trenton, N. J. Mold for making rubber articles. No. 1,410,615; Mar. 28.
- Snow, Barton S., Batavia, assignor to T. W. Snow Construction Co., Chicago, Ill. Hoisting mechanism. No. 1,429,653; Sept. 19.
- Snow, Charles S. H., South Hampstead, London, England. Wheel for motor road and other vehicles. No. 1,414,594; May 2.
- Snow, Chester A., Jr., Washington, D. C. Aeroplane control. No. 1,419,419; June 13.
- Snow, Clarence M. (See Schuyler, P. L., and Snow.)
- Snow, Daniel W., Filmore, Calif. Wire-rope socket. No. 1,408,144; Feb. 28.
- Snow, Henry. (See Girtlen, James F., assignor.)
- Snow, Herbert L., Columbus, Ohio. Knee garment. No. 1,404,489; Jan. 24.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,405,451; Feb. 7.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Automatically-threading loom shuttle. No. 1,405,452; Feb. 7.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. (Re-issue.) No. 15,375; June 6.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. (Re-issue.) No. 15,376; June 6.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Thin-plate preventer for looms. No. 1,437,824; Dec. 5.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,438,563; Dec. 12.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Warp stop mechanism for looms. No. 1,438,564; Dec. 12.
- Snow, T. W., Construction Company. (See Gurley, Robert E., assignor.)
- Snow, T. W., Construction Co. (See Snow, Barton S., assignor.)
- Snowden, Frank E. H. (See Leslie, R. D., and Snowden.)
- Snuffer, Samuel H., and J. A. Shanks, Daniels, W. Va. Stump-puller and grubbing apparatus. No. 1,407,707; Feb. 28.
- Snyder, Allen E. and M. S., Bowmanstown, Pa. Train-controlling mechanism. No. 1,437,159; Nov. 28.
- Snyder, Cecil L., Detroit, Mich. Abstract of title and making the same. No. 1,433,975; Oct. 31.
- Snyder, Charles A., Philadelphia, Pa. Composition for the treatment of artificial silk. No. 1,423,041; July 18.
- Snyder, Edith M., Hamilton, Ontario, Canada. Cooking device. No. 1,438,792; Dec. 12.
- Snyder, Edward R., East Orange, N. J., assignor to The Barrett Company. Shingle. (Reissue.) No. 15,352; May 9.
- Snyder, Frank B., South Altoona, Pa. Auxiliary propelling means for motor vehicles. No. 1,422,795; July 11.
- Snyder, Frank B., Altoona, Pa. Resilient vehicle wheel. No. 1,429,787; Sept. 19.
- Snyder, Frank B., assignor to one-half to N. E. Trod and A. E. Trod, Altoona, Pa. Express wagon. No. 1,411,308; Apr. 4.
- Snyder, Frank F., Torrance, Calif. Belt splice. No. 1,421,036; June 27.
- Snyder, Frank F., Torrance, Calif. Belt splice. No. 1,428,917; Sept. 12.
- Snyder, Frank S., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Ring inserter for milking-machine teat cups. No. 1,408,039; Feb. 28.
- Snyder, Frederick T., Oak Park, assignor to S. D. Flood, Chicago, Ill. Baking. No. 1,414,439; May 2.
- Snyder, George C., New York, N. Y. Mechanical movement. No. 1,429,654; Sept. 19.
- Snyder, Gustave I., Medix Run, Pa. Ball-bearing hanger. No. 1,419,420; June 13.
- Snyder, Harry, Oakland, Calif. Adjustable heel rest. No. 1,433,859; Oct. 31.
- Snyder, Horace M. (See Snyder, Milton A. and H. M.)
- Snyder, James A., Crary, N. Dak. Tractor gear casing. No. 1,440,250; Dec. 26.
- Snyder, Jesse C., Frostburg, Md. Transmission unit for power shafts. No. 1,413,943; Apr. 25.
- Snyder, John, San Francisco, Calif. Meat defiberizer. No. 1,436,363; Nov. 21.
- Snyder, John E., Philadelphia, Pa., assignor to Westinghouse Electric and Manufacturing Company. Interlocking blade shroud. No. 1,423,466; July 18.
- Snyder, John G., Green Island, N. Y. Manifold for gas engines. No. 1,413,804; Apr. 25.
- Snyder, John W., Vancouver, British Columbia, Canada. Automobile locking device. No. 1,408,911; Mar. 7.
- Snyder, Merritt A., Detroit, Mich. Baker's peel board. No. 1,410,419; Mar. 21.
- Snyder, Milton A. and H. M., Philadelphia, Pa. Guard for nursing bottles. No. 1,438,272; Dec. 12.
- Snyder, Moses. (See Snyder, Allen E. and M.)

- Snyder, Robert W., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Apparatus for building tires of the solid type. No. 1,415,842; May 9.
- Snyder, Roy Z., Seattle, Wash. Can opener. No. 1,420,456; June 20.
- Snyder, Simon, assignor to Sprout, Waldron & Company, Muncy, Pa. Supporting device for the driving shafts of gyrating machines. No. 1,426,514; Aug. 22.
- Snyder, Walter S. (See Fegley, T. J., and Snyder.)
- Snyder, William A., Los Angeles, Calif. Window-sash fastener. No. 1,414,595; May 2.
- Snyder, William A., assignor of one-half to E. P. and A. Rundle, Los Angeles, Calif. Extension table. No. 1,439,582; Dec. 19.
- Snyder & Black, Incorporated. (See Ten Eyck, Walter P., assignor.)
- Soabar Company. (See Henry, George W., Jr., assignor.)
- Sobawa, Johannes. (See Hardt, Johann, assignor.)
- Sobe, Alfred W., New York, N. Y. Adjustable-aligning gauge. No. 1,438,343; Dec. 12.
- Sober, John L. (See Flaherty, Mike B., assignor.)
- Sobol, Leo, and G. M. Marr, Brooklyn, N. Y. Chip blower for dentists. No. 1,416,241; May 16.
- Soholewski, Edward, assignor to Detroit Machine Tool Company, Detroit, Mich. Shaft bearing. No. 1,408,837; Mar. 7.
- Sociedad Hidro-Metalurgica. (See Bardt, Hans, assignor.)
- Società Anonima "Aclastite." (See Norzi, Ercole, assignor.)
- Società Anonima Brevetti Beccari. (See Beccari, Giuseppe, assignor.) (Reissue.)
- Società Brevetti Feriani. (See Feriani, Gaetano, assignor.)
- Société Anonyme Ateliers Otis Pifre. (See Derungs, Ernest A., assignor.)
- Société Anonyme Compagnie Generale Du Verre. (See Bott, Anton, assignor.)
- Société Anonyme de Commentry, Fourchambault & Decazeville. (See Girin, Pierre, assignor.)
- Société Anonyme de Publications Periodiques. (See Snelling, W., and Bellavoine, assignors.)
- Société Anonyme des Aeroplanes G. Voisin. (See Mongermon, Eugene, assignor.)
- Société Anonyme des Aeroplanes G. Voisin. (See Voisin, Gabriel, assignor.)
- Société Anonyme des Aeroplanes Morane-Saulnier. (See Saulnier, Raymond, assignor.)
- Société Anonyme Des Anciens Etablissements Secqueville and Hayau. (See Secqueville, Alfred E. L., assignor.)
- Société Anonyme des Appareils, The. (See Malivert, Jules E., assignor.)
- Société Anonyme Des Appareils De Manutention et Fours Stein. (See Stein, Charles M., assignor.)
- Société Anonyme des Ateliers d'Aviation Louis Bréguet. (See Breguet, Louis, assignor.)
- Société Anonyme des Ateliers de Secheron. (See Bauer, B., and von Zeerleder, assignors.)
- Société Anonyme des Automobiles & Cycles Peugeot. (See Koechlin, Isaac, assignor.)
- Société Anonyme des Brevets Peuffaillit. (See Moriondi, Charles, assignor.)
- Société Anonyme des Etablissements Delaunay Belleville. (See Bourdelles, Emile A. L., assignor.)
- Société, Anonyme des Etablissements Hutchinson. (See See, Jacques D., assignor.)
- Société Anonyme des Etablissements Nieuport. (See Bazaine, Léon, assignor.)
- Société Anonyme des Etablissements Raynaud & Bourceret. (See Raynaud, Fernand R. G., assignor.)
- Société Anonyme des Telegraphes Edouard Bellin. (See Montellhet, Antonin, assignor.)
- Société Anonyme John Cockerill. (See Gendarme, Tous-saint, assignor.)
- Société Anonyme Pour l'Exploitation Des Procédes West-inghouse Leblanc. (See Leblanc, Maurice C. A., assignor.)
- Société Anonyme "Procédes Torrida." (See Tribes, Gaston E. F., assignor.)
- Société Anonyme Usines Derihon. (See Derihon, Ernest, assignor.)
- Société Arbin Freres & Gueudré. (See Arbin, Georges, assignor.)
- Société Chimique de la Grande Parsisse. (See Haas, Louis, assignor.)
- Société Chimique des Usines du Rhone. (See Altwegg, Jean, assignor.)
- Société Chimique des Usines du Rhone (Anciennement Gilliard P. Monnet et Cartier). (See Altwegg, J., and Landrivo, assignors.)
- Société Chimique des Usines du Rhone (Anciennement Gilliard P. Monnet et Cartier). (See Altwegg, Jean, assignor.)
- Société Chimique des Usines du Rhone (Anciennement Gilliard P. Monnet et Cartier). (See Bidaud, Florentin, assignor.)
- Société Chimique des Usines du Rhone (Anciennement Gilliard P. Monnet et Cartier). (See Bouvier, Maurice, assignor.)
- Société Cibles Automatiques Michoud S. A. (See Michoud, Arnold, assignor.)
- Société d'Exploitation Des Brevets Dupius. (See Delune, Marcel, assignor.)
- Société d'Outilsage Mecanique et d'Usinage d'Artillerie. (See Perony, Jean A., assignor.)
- Société des Cheminées Louis Prat & Tirage Indust. (See Prat, Emile, assignor.)
- Société des Etablissements Malicet & Blin. (See Guillery, René, assignor.)
- Société des Moteurs Salmson, (Systeme Canton-Unne.) (See Postel-Vinay, Pierre J. R., assignor.)
- Société du Carburateur Zenith. (See Taylor, Richard H., assignor.)
- Société Etablissements Poulene Freres. (See Meyer, Robert, assignor.)
- Société "F. Huberty et Cie." (See Huberty, Pierre F., assignor.)
- Société Fabriques de Produits Chimiques de Thann et de Mulhouse. (See Comment, Paul, assignor.)
- Société Fabriques de Produits Chimiques de Thann et de Mulhouse. (See Haller, Albin, assignor.)
- Société Française de Crins Artificiels. (See Olivier, Maurice G., assignor.)
- "Société Française des Procédés Golpo." (See Leger, Jules F., assignor.)
- Société Generale Delle Conserve Alimentari Cirio. (See Carrasco, Oreste, assignor.)
- Société Industrielle d'Instruments de Précision. (See Conti, James T. F., assignor.)
- Société Industrielle des Telephones (Constructions Elec-triques, Caoutchouc, Câbles.) (See Puget, Jules E. L., assignor.)
- Société l'Air Liquide (Société Anonyme Pour l'Etude et l'Exploitation des Procédes Georges Claude). (See Jordan, Eugene, assignor.)
- Société Le Coke Industriel. (See Lioud, Frank, assignor.)
- Société Les Petits Fils de Francois de Wendel et Cie. (See Weber, Guillaume, assignor.)
- Société Lyonnaise d'Industrie Mecanique. (See Adenot, Marius, assignor.)
- Société Manufacture Metallurgique de Cournus. (See Collard, Alexandre, assignor.)
- Société Nauton freres & de Marsac et al. (See Tesse, Theodore F., assignor.)
- Société Petrik & Cie. (See Petrik, Boniface, assignor.)
- Société Ricard, Allenet & Cie. (See Ricard, Eloi, assignor.)
- Société Vedovelli Priestley & Co. (See Priestley, Charles M. E., assignor.)
- Société Anonyme pour l'Exploitation d'Inventions I. S. A. (See Bogopolsky, Jacques, assignor.)
- Société Durand & Huguénin, S. Q. (See Vaucher, C., and Speitel, assignors.)
- Société Etablissements Georges Lutz G. Krempf. (See Cloutier, André, assignor.)
- Société Etablissements Henry Crochat, The. (See Colar-deau, Emmanuel L. P., assignor.)
- Society of Chemical Industry in Basle. (See Bernhard, H., and Jaek, assignors.)
- Society of Chemical Industry in Basle. (See Blumfeldt, Alexander, assignor.)
- Society of Chemical Industry in Basle. (See Gams, A., and Wybert, assignors.)
- Society of Chemical Industry in Basle. (See Grimmer, J., and Straub, assignors.)
- Society of Chemical Industry in Basle. (See Hartmann, M., and Kägi, assignors.)
- Society of Chemical Industry in Basle. (See Hartmann, M., and Seiberth, assignors.)
- Society of Chemical Industry in Basle. (See Jager-spacher, Carl, assignor.)
- Society of Chemical Industry in Basle. (See Mayer, B., Moser, and Würzler, assignors.)
- Society of Chemical Industry in Basle. (See Miescher, Karl, assignor.)
- Society of Chemical Industry in Basle. (See Pictet, Amé, assignor.)
- Society of Chemical Industry in Basle. (See Steinbuch, E., Ackermann, and Utzinger, assignors.)
- Society Technochemia Aktiengesellschaft. (See Schweitzer, William H., assignor.)
- Sockwell, Herbert R., Port Norris, N. J. Clam and oyster dredge. No. 1,413,944; Apr. 25.
- Soddy, Frederick, Aberdeen, Scotland. Method of strip-ping the illuminants from and of purifying coal-gas by means for charcoal. No. 1,422,007; July 4.
- Soddy, Frederick, Oxford, England. Apparatus for puri-fying coal gas. No. 1,422,008; July 4.
- Soden, Doris E. (See Rosamond, Arthur R., assignor.)
- Soderberg, Alfred A., Philadelphia, Pa. Guide map. No. 1,408,417; Feb. 28.
- Sodergreen, Carl G., Centerville, Iowa. Folding insulation for flange joints. No. 1,411,386; Apr. 4.
- Soderlund, Carl A., Brooklyn, N. Y. Actuating device for printing-press throw-off mechanism. No. 1,435,089; Nov. 7.
- Soderlund, Nils J., Medford, Mass. Ceiling-washing ma-chine. No. 1,414,101; Apr. 25.
- Soderstrom, Karl A., Philadelphia, Pa. Manufacturing pipe fittings and analogous articles. No. 1,406,693; Feb. 14.
- Soderstrom, Oscar, New York, N. Y., and W. Fuhrmann, Westfield, N. J. Button machine. No. 1,433,244; Oct. 24.
- Sonecken Firm F. (See Berger, Richard, assignor.)

Alphabetical list of patentees—Continued.

- Sohlberg, Erik G., Schenectady, N. Y., assignor to General Electric Company. Transmission of electric energy to movable elements. No. 1,408,838; Mar. 7.
- Sohn, Alfred L., Chicago, Ill. Keyless clock. No. 1,418,487; June 6.
- Sohmer, Albert D., New York, N. Y. Ice box. No. 1,436,324; Nov. 21.
- Sohn, Elmer L., El Paso, Tex. Cigarette package. No. 1,427,977; Sept. 5.
- Sokolov, Jacob, assignor to Defiance Combination Auto Lock Corporation, Detroit, Mich. Lock for automobiles. No. 1,423,691; July 25.
- Sokolov, Jacob, and E. F. Wieneke, assignors to Defiance Lock Corporation, Detroit, Mich. Lock for automobiles. No. 1,437,160; Nov. 28.
- Sokolove, George A., Philadelphia, Pa. Safety lock for motor vehicles. No. 1,424,599; Aug. 1.
- Solack, Joseph, Scranton, Pa. Boat. No. 1,424,044; July 25.
- Solberg, Lyon P. (See Goldberg, S., and Solberg.)
- Soldane, Lloyd A. T., and V. V. Van Nattan, San Francisco, Calif. Grease retainer and dust cap. No. 1,428,267; Sept. 5.
- Soley, Frank, assignor to The Miller Lock Company, Philadelphia, Pa. Lock. No. 1,428,455; Sept. 5.
- Soley, Stanley G., Minneapolis, Minn. Traction-wheel lug. No. 1,437,118; Nov. 28.
- Solheid, Leo, Dusseldorf, Germany. Flushing apparatus. No. 1,423,634; July 25.
- Soliab, Edward M., Hatton, N. Dak. Door-supporting clamp. No. 1,429,788; Sept. 19.
- Sollie, Henry O., Los Angeles, Calif. Tire carrier. No. 1,412,425; Apr. 11.
- Solmson, Robert R., New Brunswick, N. J. Pipe-stamping machine. No. 1,426,784; Aug. 22.
- Solomon, Charles, New York, N. Y., assignor of one-third to F. Solomon and one-third to S. Davidovitz, New York, N. Y. Adjustable cap. No. 1,419,771; June 13.
- Solomon, David W., Redmond, Wash. Saw support and guide. No. 1,428,268; Sept. 5.
- Solomon, Frank, et al. (See Solomon, Charles, assignor.)
- Solomon, Lucius H., Tiffin, Ohio. Heater. No. 1,427,028; Aug. 22.
- Solop, Sydor, Brooklyn, N. Y. Combined drill and screw set. No. 1,424,600; Aug. 1.
- Soloway, Saul S. (See Freedman, Abraham A.)
- Soltys, Peter, Shelton, Conn. Hospital bed. No. 1,408,651; Mar. 7.
- Solvay Process Company, The. (See Beacon, Nathaniel T., assignor.)
- Somers, Christopher C., Bend, Oreg. Headlight. No. 1,429,113; Sept. 12.
- Somers, Philip W. (See Thomas, C. W., and Somers.)
- Somers, William, Memphis, Tenn. Stop device for steering mechanism. No. 1,410,963; Mar. 28.
- Somers, William A., assignor to The Mt. Carmel Manufacturing Company, Mount Carmel, Conn. Handle lock for automobiles. No. 1,424,686; Aug. 1.
- Somerville, Albert A., Flushing, N. Y., assignor to New York Belting and Packing Company. Making soles for turned shoes. No. 1,405,453; Feb. 7.
- Somerville, George B. (See Rogers, Robert D., assignor.)
- Somerville, George W., Wilmington, assignor of one-half to T. Nelson, Lebec, Calif. Tire protector. No. 1,423,692; July 25.
- Somerville, Norman J. F., Erin Township, Ontario, Canada. Self-releasing starting crank. No. 1,438,066; Dec. 5.
- Somerville, Robert. (See Hanks, G. R., and Somerville.)
- Somes, Walter F., Jamaica Plain, and C. H. B. Morse, Boston, Mass. Piston. No. 1,402,679; Jan. 3.
- Sommer, Emil W., Glendale, W. Va. Headlight. No. 1,437,161; Nov. 28.
- Sommer, Fred R., Brooklyn, N. Y. Electrometer. No. 1,417,114; May 23.
- Sommer, Fred R., Brooklyn, N. Y. Micrometer adjustment. No. 1,435,025; Nov. 7.
- Sommer, Henry F., Kansas City, Mo. Bake oven. No. 1,425,709; Aug. 15.
- Sommer, Hugo H., Madison, Wis. Sanitary pad for water-closet seats. No. 1,437,455; Dec. 5.
- Sommer, John, Peoria, Ill. Ditching machine. No. 1,420,876; June 27.
- Sommer, John, Peoria, Ill., assignor, by mesne assignments, to The Union Trust Company, Cleveland, Ohio, and J. A. Chapman, Chicago, Ill., trustees. Hoist crane. No. 1,407,005; Feb. 21.
- Sommer, John, Peoria, Ill., assignor, by mesne assignments, to The Union Trust Company, Cleveland, Ohio, and J. A. Chapman, Chicago, Ill., trustees. Stripping mechanism for wire-drawing blocks. No. 1,414,380; May 2.
- Sommer, Q. H., Manufacturing Co. (See Biehl, Bernard, Sr., assignor.)
- Sommer, William H., Peoria, Ill., assignor, by mesne assignments, to The Union Trust Company, Cleveland, Ohio, and J. A. Chapman, Chicago, Ill., trustee. Open-heart furnace. No. 1,407,004; Feb. 21.
- Sommermeier, Oscar A. (See Campbell, G. S., and Sommermeier.)
- Sommers, Edward P., Los Angeles, Calif. Windshield adaptor for automobiles. No. 1,411,753; Apr. 4.
- Sommers, Katie. (See Peirez, Woolf, assignor.)
- Sommers, William, and L. Fritz, Philadelphia, Pa. Coffee mill. No. 1,420,877; June 27.
- Sommerville, Andrew, Pasadena, Calif. Adjustable price mark. No. 1,413,500; Apr. 18.
- Somora, Joseph, Chicago, Ill. Combination keyless night latch. No. 1,417,777; May 30.
- Sona Corporation. (See Brown, H. E., and Stover, assignors.)
- Sonday, Francis M., Churubusco, Ind. Handle holder for caskets. No. 1,426,785; Aug. 22.
- Sonday, Francis M., Churubusco, Ind. Drainage device. No. 1,430,197; Sept. 26.
- Sonen, William A. (See Ruhe, P. P., and Sonen.)
- Sonnenburg, Emil, Cato, Wis. Wheel extractor. No. 1,434,852; Nov. 7.
- Sonje Limited. (See Jones, William A., assignor.)
- Sonne, Owen E., Represa, R. W. Proctor, Davis, and A. E. Miller, Sacramento, Calif. Impression stamp. No. 1,411,892; Apr. 4.
- Sonneborn, Sol S., Brooklyn, N. Y., assignor to Hopewell Insulation & Mfg. Co., Incorporated. Condenser cemented sectional insulator. No. 1,426,421; Aug. 22.
- Sonneman, Edward G., St. Louis, Mo. Window-operating mechanism for vehicle doors. No. 1,412,142; Apr. 11.
- Sonneman, William F. (See Baker, W. E., and Sonneman.)
- Sonnlechner, Oskar, Vienna, Austria, and J. Schildovsky, Gagganau, Germany. Apparatus for measuring the useful load in spring vehicles. No. 1,432,631; Oct. 17.
- Sonora Phonograph Corporation. (See Farb, Pincus, assignor.)
- Sonora Phonograph Company. (See Hirt, Joseph F., assignor.)
- Sonsthagen, Asbjorn, Leytonstone, England. Machine for mixing chocolate or other material. No. 1,426,118; Aug. 15.
- Sonsthagen, Asbjorn, Essex, and E. H. Harberd, London, England. Method and means for atomizing more or less viscid materials. No. 1,427,559; Aug. 29.
- Sopenoff, Samuel L., and M. Katcher, Brooklyn, N. Y. Electrical outlet box. No. 1,429,172; Sept. 12.
- Soper, Ellis C., Chattanooga, Tenn. Treatment of phosphates. No. 1,437,456; Dec. 5.
- Soper, Ernest C. (See Jones, Hugh J., assignor.)
- Soper, John P. H., Leyton, London, and T. Terrell, jr., Muswell Hill, London, assignors of one-third to T. Terrell, London, England. Manufacture of incandescent gas mantles. No. 1,436,296; Nov. 21.
- Sopp, Albert E., Montreal, Quebec, Canada. Card holder for railway cars. No. 1,416,072; May 16.
- Sorby, Lawrence A., Arlington, Mass. Automatic grinding machine. No. 1,428,269; Sept. 5.
- Sörby, Sigvart, Kongsberg, Norway. Educational appliance for practicing penmanship. No. 1,414,102; Apr. 25.
- Sorel, Denise, and M. Sarlabous, New York, N. Y. Leg garment. No. 1,437,564; Dec. 5.
- Soreng, Edgar M., assignor to Briggs & Stratton Company, Milwaukee, Wis. Headlight regulator. No. 1,411,754; Apr. 4.
- Soreng, Edgar M., assignor to Briggs & Stratton Company, Milwaukee, Wis. Heating coil for carburetors. No. 1,422,896; July 18.
- Sorensen, Andrew, Oakland, Calif. Washing machine. No. 1,423,972; July 25.
- Sorensen, Charles E., assignor to Henry Ford & Son, Inc., Dearborn, Mich. Annealing furnace. No. 1,406,424; Feb. 14.
- Sorensen, Hans P., Ossining, N. Y. Flying machine. No. 1,432,213; Oct. 17.
- Sorensen, Herman I. (See Taber, Clinton D., assignor.)
- Sorensen, John, Ottawa, Ill. Radiator core. No. 1,414,440; May 2.
- Sorensen, Magnus, Winthrop Harbor, Ill., assignor, by mesne assignments, to F. C. Austin Machinery Company. Steering gear. No. 1,435,990; Nov. 21.
- Sørensen, Marius M., Vallerød, near Rungsted, Denmark. Lasting machine. No. 1,427,498; Aug. 29.
- Sorensen, Otto A., New York, N. Y. Valve. No. 1,419,650; June 13.
- Sorensen, Sam. (See Reed, C. E., and Sorensen.)
- Sorensen, Sam, assignor to C. E. Reed, Houston, Tex. Fishing device for oil wells. No. 1,405,025; Jan. 31.
- Sorensen, Ulrick, Berwyn, Nebr. Governor for tractors. No. 1,407,957; Feb. 28.
- Sorensen, Daniel M., Toronto, Ontario, Canada, assignor to E. L. Cannon, Cleveland Heights, Ohio. Lubricating compound. No. 1,414,227; Apr. 25.
- Sorensen, Daniel M., Toronto, Ontario, Canada, assignor to E. L. Cannon, Cleveland Heights, Ohio. Treating brake bands of planetary transmissions. No. 1,414,311; Apr. 25.
- Sorenson, John, Rhinelander, Wis. Setting device for re-sawing machines. No. 1,434,969; Nov. 7.
- Sorenson, John G. (See Bourdeau, Leon N., assignor.)
- Sorenson, Sigvard, assignor of one-half to A. Vollegraaf, St. Paul, Minn. Woodworking tool. No. 1,421,599; July 4.
- Sorg, William A., Denver, Colo. Tractor. No. 1,439,920; Dec. 26.
- Sorger, Carl, Wilmington, Del. Manufacture of a tanning material. No. 1,414,312; Apr. 25.
- Sorola, John. (See Tanttila, H., and Sorola.)
- Sorrell, Samuel H., Ashland, Ala. Shaker grate. No. 1,421,598; July 4.
- Sorrells, James A., Gainesville, Ga. Tape-selva stop-motion stand. No. 1,416,133; May 16.

- Sorum, Alexander E., Portland, Oreg., assignor, by mesne assignments, to Remington Arms Company, Inc., New York, N. Y. Register-resetting mechanism. No. 1,433,670; Oct. 31.
- Sosa, Augustus M. (See Schatz, H. W., and Sosa.)
- Sosa, Enrique B., Montevideo, Uruguay. Spring wheel. No. 1,430,414; Sept. 26.
- Soss, Charles J., assignor of one-fourth to J. Soss, one-fourth to H. Soss, and one-fourth to S. Soss, New York, N. Y. Hinge. No. 1,402,103; Jan. 3.
- Soss, Henry, et al. (See Soss, Charles J., assignor.)
- Soss, Joseph, et al. (See Soss, Charles J., assignor.)
- Soss, Joseph, New York, N. Y. Lock construction. No. 1,402,104; Jan. 3.
- Soss, Samuel, et al. (See Soss, Charles J., assignor.)
- Soto, Anthony J., San Bruno, Calif. Bottle or jar cover. No. 1,440,318; Dec. 26.
- Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Apparatus for and method of producing charges of molten glass. No. 1,428,994; Sept. 12.
- Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Transfer mechanism. No. 1,435,263; Nov. 14.
- Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Means for transferring glass to molds. No. 1,439,384; Dec. 19.
- Souders, Herbert V., Wilmington, and J. M. Frost, Long Beach, Calif. Foot accelerator. No. 1,423,489; July 18.
- Soule, George C., and J. B. Woodbury, South Portland, Me. Making wire-rope clamp clips. No. 1,422,314; July 11.
- Soule, Leslie, et al., trustees. (See Melcher, George S., assignor.)
- Soulie-Cottineau, Henri P., Paris, France. Obtaining the copper from lyes resulting from the treatment of cupiferous pyrites. No. 1,431,130; Oct. 3.
- Souter, Dracos, Baton Rouge, La. Hose holder. No. 1,414,834; May 2.
- South, Mahlon C., assignor of one-third to C. M. Garrison, Cincinnati, Ohio. Power propulsion device. No. 1,422,384; July 11.
- South of England Agricultural Machinery Company. (See Pell, Henry W. L., assignor.)
- South Side Manufacturing Company, The. (See Hedberg, John A., assignor.)
- Southall, Madison L., Covington, Tenn. Washboard. No. 1,438,871; Dec. 12.
- Southall & Smith Limited. (See Partridge, Ralph B., assignor.)
- Southard, George B., Los Angeles, Calif. Device for controlling the growth of plant roots. No. 1,418,841; June 6.
- Southard, John H., Glendale, Calif., assignor to Miller Chapman Company. Auto theft signal. No. 1,426,119; Aug. 15.
- Souther, Lewis F., Larson, N. Dak. Weed and insect burner. No. 1,415,491; May 9.
- Souther, William H., West St. John, New Brunswick, Canada. Air-brake system. No. 1,418,210; May 30.
- Southern Electro-Chemical Company. (See Hechenbleikner, Ingenuin, assignor.)
- Southern Electrolyte Battery Company. (See Hornsby, Moses W., assignor.)
- Southern Iron & Steel Corporation, The. (See Johnson, Henry, assignor.)
- Southern, John. (See Elliott, A. G., and Southern.)
- Southern Power Company. (See Friederich, Louis, assignor.)
- Southgate, George T., New York, N. Y. High-potential switch. No. 1,417,420; May 23.
- Southgate, George T. and M. C., New York, N. Y. Exercising device. No. 1,402,263; Jan. 3.
- Southgate, James F., and W. Carey, Chelmsford, England. Money-delivering apparatus. No. 1,427,029; Aug. 22.
- Southgate, May C. (See Southgate, George T. and M. C.)
- Southwark Foundry & Machine Company. (See Platt, Thomas M., assignor.)
- Southwestern Condenser Company. (See MacCamy, Harry E., assignor.)
- Southwick, Alfred W., Newport, R. I. Hoisting derrick. No. 1,431,337; Oct. 10.
- Southwick, Lawrence P. (See Fogde, M., and Southwick.)
- Southwick, William S., Clinton, assignor to Wickwire Spencer Steel Corporation, Worcester, Mass. Apparatus for automatically feeding wire filling units to wire-fabric shuttles. No. 1,415,492; May 9.
- Southwick, William S., Clinton, Mass., assignor, by mesne assignments, to Wickwire Spencer Steel Corporation. Automatic filling-replenishing loom. No. 1,422,897; July 18.
- Southworth Company. (See Scott, Frank O., assignor.)
- Southworth, Horatio W., Brooklyn, N. Y. Pulp-cleaning apparatus. No. 1,402,456; Jan. 3.
- Soutullo, Raymond J., assignor, by mesne assignments, to K. C. Winter, Gordon Smith, W. D. Bellingsrath, and E. C. Grace, Mobile, Ala. Bottle refrigerator. (Reissue.) No. 15,482; Oct. 31.
- Sowden, Albert B., Covington, Ky. Positive both-wheel-drive differential. No. 1,422,144; July 11.
- Sowers, Ossa, New York, N. Y. Controlling the condition of castings. No. 1,417,638; May 30.
- Soyer, Robert, Issy, France. Igniter for internal-combustion engines. No. 1,409,887; Mar. 14.
- S-P Manufacturing Company. (See Olson, John A., assignor.)
- Spaander, Jan, assignor to American Optical Company, Southbridge, Mass. Lens-grinding machine. No. 1,436,626; Nov. 21.
- Spacke, David, Indianapolis, Ind. Detachable nursing-bottle holder. No. 1,412,900; Apr. 18.
- Spadafora, Joseph, Cambridge, Mass., assignor to Combo Manufacturing Company. Combination lock. No. 1,433,245; Oct. 24.
- Spadone Machine Co. (See Wegner, Julius, assignor.)
- Spahlinger, Henry, Geneva, Switzerland. Apparatus for collecting serum. No. 1,411,068; Mar. 28.
- Spahr, Otto, Philadelphia, Pa. Spark plug. No. 1,432,042; Oct. 17.
- Spaid, Charles E., Sioux Falls, S. Dak. Automobile radiator attachment. No. 1,418,334; June 6.
- Spain, William, Riverside, assignor of one-half to Corn Products Refining Company, Argo, Ill. Machine for applying cars to rails. No. 1,423,693; July 25.
- Spalding, A. G., & Bros. (See Aldrich, William T., assignor.)
- Spalding, A. G., & Bros. (See Bolton, John R., assignor.)
- Spalding, A. G., & Bros. (See Reach, Milton B., assignor.)
- Spalding, David, Lonerock, Oreg. Fence-wire clamp. No. 1,435,508; Nov. 14.
- Spallone, Louis S., Denver, Colo. Furnace. No. 1,436,297; Nov. 21.
- Spalt, Edward B., and F. R. Meginniss, assignors to Geo. Spalt & Sons, Inc., Albany, N. Y. Control for refrigerating apparatus. No. 1,418,488; June 6.
- Spalt, Geo., & Sons, Inc. (See Spalt, E. B., and Meginniss, assignors.)
- Spanenberg, Otto C., Albion, Mich. Pivotal spring seat. No. 1,429,979; Sept. 26.
- Spangler, Charles H., assignor to Metropolitan Edison Company, Reading, Pa. Water-treating apparatus. No. 1,427,650; Aug. 29.
- Spangler, Charles M., Emporium, Pa. Universal joint for coupling shafts. No. 1,407,445; Feb. 21.
- Spangler, Charles M., Emporium, Pa. Universal joint for coupling shafts. No. 1,429,980; Sept. 26.
- Spangler, James M., deceased, Canton, assignor to The Hoover Suction Sweeper Company, Berlin, Ohio. Suction carpet sweeper. (Reissue.) No. 15,414; July 18.
- Spann, George, Newark, N. J. Device for use in the manufacture of piston rings. No. 1,413,623; Apr. 25.
- Sparks, Charles, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Trunk circuits. No. 1,440,110; Dec. 26.
- Sparks, Charles, Oak Park, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,440,111; Dec. 26.
- Sparks, Charles, Oak Park, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,440,112; Dec. 26.
- Sparks, Charles, assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Telephone system. No. 1,440,113; Dec. 26.
- Sparks, Charles, Oak Park, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,440,114; Dec. 26.
- Sparks, Charles F., Alton, Ill. Bag closing and tying machine. No. 1,425,802; Aug. 15.
- Sparks, Fred E., Akron, Ohio. Burglar alarm. No. 1,435,882; Nov. 14.
- Sparks, Harry H., Kansas City, Mo. Sifter. No. 1,439,273; Dec. 19.
- Sparks, William, Jackson, Mich., assignor to Sparks-Withington Company, Cleveland, Ohio. Commutator. No. 1,421,734; July 4.
- Sparks, William B., Cincinnati, Ohio. Ring-oiled gland. No. 1,420,585; June 20.
- Sparks-Withington Company. (See Sparks, William, assignor.)
- Sparr, Lars, Stockholm, Sweden. Integrating apparatus for graphic integration calculations. No. 1,416,519; May 16.
- Sparrow, Arthur, assignor to American Steel Foundries, Chicago, Ill. Reversible fulcrum arrangement. No. 1,425,064; Aug. 8.
- Sparrow, Charles M., Buffalo, N. Y. Rotary pump and engine. No. 1,408,839; Mar. 7.
- Spartan Needle Company. (See Wilcomb, J. Frank, assignor.)
- Spates, Frank G. (See Rumery, C. C., and Spates.)
- Spartivento, William, Buffalo, N. Y. Fingering attachment for guitars. No. 1,437,026; Nov. 28.
- Späth, Wilhelm, Kiel, Germany. Producing cinematographic projections in natural colors. No. 1,430,765; Oct. 3.
- Spatz, Elmer. (See Balluff, Edward J., assignor.)
- Spaulding, Archibald H., Hingham, Mass. Machine for making gelatin films and printing therefrom. No. 1,417,358; May 23.
- Spaulding, William K., Ketchikan, Alaska. File case. No. 1,411,527; Apr. 4.
- Spear, Arthur, Chicago, Ill. Nut-castellating mechanism. No. 1,430,334; Sept. 26.
- Spear, George B., Paterson, N. J. Pocket guard. No. 1,427,499; Aug. 29.
- Specht, H. Mortimer. (See Scheele, Walter T., assignor.)

Alphabetical list of patentees—Continued.

- Specht, Louise M., assignor of one-half to J. A. Shimek, Chicago, Ill. Radiator and electric heating fireplace. No. 1,433,915; Oct. 31.
- Specialty Automatic Machine Company. (See La Bombard, L. E., and Sidebotham, assignors.)
- Specialty Automatic Machine Company. (See La Bombard, Leon E., assignor.) (Reissue.)
- Specialty Manufacturing Company. (See Smith, Julian H., assignor.)
- Speck, Clifford P., Oakland, Calif. Making confections. No. 1,421,600; July 4.
- Speck, Clifford P., Oakland, Calif. Confection mold. No. 1,421,601; July 4.
- Speck, Clifford P., Evansville, Ind. Electrically-operated heating apparatus. No. 1,437,119; Nov. 28.
- Speck, Glen G., Portland, Oreg. Pin. No. 1,421,037; June 27.
- Specketer, Heinrich, Griesheim-on-the-Main, assignor to Chemische Fabrik Griesheim-Elektron, Frankfurt-on-the-Main, Germany. Producing nitrogen compound. No. 1,409,124; Mar. 7.
- Speckhard, Evna C., Saginaw, Mich. Steering wheel. No. 1,438,193; Dec. 12.
- Spector, Benjamin, and L. E. Rosenberg, Brooklyn, N. Y. Knitted cap. No. 1,421,602; July 4.
- Speed, James A., San Francisco, Calif. Combined gravity and vacuum carburetor. No. 1,409,420; Mar. 14.
- Speed, James A., assignor to New Speed Carburetor Company, San Francisco, Calif. Carburetor. No. 1,403,716; Jan. 17.
- Speed, James B., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmitter. No. 1,436,206; Nov. 21.
- Speed, James B., New York, and F. Hutchinson, Jr., Brooklyn, assignors to Western Electric Company, Incorporated, New York, N. Y. Storage battery. No. 1,426,786; Aug. 22.
- Speed King Manufacturing Co. (See Franklin, Joseph A., assignor.)
- Speed, William S., assignor to Louisville Cement Company, Louisville, Ky. Drawing apparatus for kilns. No. 1,438,407; Dec. 12.
- Speedautomatic Company. (See Cooper, Simon, assignor.)
- Speedaumatic Company, The. (See Steere, Clarence E., assignor.)
- Speeder Machinery Corporation, The. (See Kercher, L., and A. T. and G. T. Ronk, assignors.)
- Speer, Alexander S., Chicago, Ill., assignor to The Roofing Patents Company. Shingle strip. No. 1,412,295; Apr. 11.
- Speer, Alexander S., Buffalo, N. Y., assignor to The Roofing Patents Company. Making roofing slabs. (Reissue.) No. 15,496; Nov. 21.
- Speer, Jeannette L., Trappe, Md. Reversible glove. No. 1,423,546; July 25.
- Speer, William C., Wright, Kans. Snowplow. No. 1,428,615; Sept. 12.
- Speicher, Daniel E. (See Faust, E. C., Speicher, and Ulom.)
- Speidel, Charles F., assignor to Eastman Kodak Company, Rochester, N. Y. Lens-tube adjustment for cameras. No. 1,435,562; Nov. 14.
- Speidel, Robert, Calmbach, Germany. Package. No. 1,406,098; Feb. 7.
- Speiden, Eben C. (See Ladd, E. T., and Speiden.)
- Speiden, Eben C., Niagara Falls, N. Y. Nonskid device. No. 1,435,626; Nov. 14.
- Speight, Russel G., Greenfield, Mo. Wrench. No. 1,405,347; Jan. 31.
- Speirs, Charles W., assignor to The Morgan Crucible Company, Limited, London, England. Electrically-heated furnace. No. 1,418,030; May 30.
- Speirs, Charles W., assignor to Morgan Crucible Company, Limited, Battersea Works, Battersea, London, England. Electrically-heated furnace. No. 1,430,853; Oct. 3.
- Speitel, René. (See Vaucher, C., and Speitel.)
- Spelling, Thomas C., New York, N. Y. Advertising post. No. 1,402,105; Jan. 3.
- Spelling, Thomas C., New York, N. Y. Receptacle. No. 1,409,256; Mar. 14.
- Spellman, Mabel R. (See Braxton, Elbert M., assignor.)
- Spence, Adam L. (See Dunfee, C. H., and Spence.)
- Spence, Fred, Altrincham, assignor to Linotype and Machinery Limited, London, England. Sheet-delivery mechanism of printing machines. No. 1,436,543; Nov. 21.
- Spence, Tom H., and J. A. Turnell, assignors to Q. R. S. Music Company, Chicago, Ill. Music-roll-printing machine. No. 1,416,759; May 23.
- Spence, John L., Jr., Brooklyn, N. Y. Scraper. No. 1,432,798; Oct. 24.
- Spencer, Bessie M., New York, N. Y. Sewing kit. No. 1,440,319; Dec. 26.
- Spencer, Charles, Hamilton, Ontario, Canada. Sanding device for railways and the like. No. 1,404,903; Jan. 31.
- Spencer, Charles, Hamilton, Ontario, Canada. Sanding device for railways and the like. No. 1,404,904; Jan. 31.
- Spencer, Charles, Hamilton, Ontario, Canada. Sanding device. No. 1,428,814; Sept. 12.
- Spencer, Charles H., assignor to H. S. Dulaney, Baltimore, Md. Piano player. No. 1,423,271; July 18.
- Spencer, Charles R., assignor of one-half to G. H. Rowe, Buffalo, N. Y. Armrest. No. 1,426,787; Aug. 22.
- Spencer, Clarence E., Ovalo, Tex. Mousetrap. No. 1,404,327; Jan. 24.
- Spencer, Clarence G., New York, N. Y. Electrolysis. No. 1,431,602; Oct. 10.
- Spencer, Frank A., West Orange, N. J. Device for raising and supporting covers. No. 1,420,347; June 20.
- Spencer, Frank C., Hartford, Conn., assignor to Western Electric Company, Incorporated, New York, N. Y. Drill press. No. 1,403,985; Jan. 17.
- Spencer, Harold E., Gravesend, England, assignor to Hesco Limited, London, England. Lifting truck. No. 1,403,651; Jan. 17.
- Spencer, Harry O., Cincinnati, Ohio. Combination valve device. No. 1,427,239; Aug. 29.
- Spencer, Henry B., Ottawa, Ontario, Canada. Train stop and train control. No. 1,414,596; May 2.
- Spencer, Isaac C., Glendale, Utah. Rifle sight. No. 1,433,422; Oct. 24.
- Spencer, James B., and P. E. Geldhof, Syracuse, assignors, by mesne assignments, to United States Hoffman Machinery Corporation, New York, N. Y. Garment press. No. 1,426,120; Aug. 15.
- Spencer, John A., Long Beach, Calif. Lead-joint runner. No. 1,420,586; June 20.
- Spencer, John C., Spiceland, Ind. Shade-roller-controlling means. No. 1,435,423; Nov. 14.
- Spencer, John C., Spiceland, Ind. Automatic shade-roller-controlling means. No. 1,438,669; Dec. 12.
- Spencer, John R., assignor to Hogan-Spencer-Whitley Company, Erie, Pa. Wringer. No. 1,413,195; Apr. 18.
- Spencer, Jonathan R., Long Beach, Calif. Animal trap. No. 1,407,096; Feb. 21.
- Spencer Kellogg Sons, Inc. (See Schwarzman, Alexander, assignor.)
- Spencer Lens Company. (See Ott, H. N., and Bufton, assignors.)
- Spencer, Louis M., Highland Park, Mich. Trailer-dumping mechanism. No. 1,424,424; Aug. 1.
- Spencer, Louis M., Highland Park, Mich. Cable-hauling and body-dumping mechanism. No. 1,424,425; Aug. 1.
- Spencer, Louis M., Highland Park, Mich. Trailer-dumping mechanism. No. 1,424,426; Aug. 1.
- Spencer, Louis R., Hartford, Conn. Engine piston. No. 1,430,928; Oct. 3.
- Spencer Metal Products Company, The. (See Roberts, George E., assignor.)
- Spencer, Owen H. (See O'Brien, W. L., and Spencer.)
- Spencer, Raphael M., Roy, Mont. Joint. No. 1,433,860; Oct. 31.
- Spencer, Raymond, Walnut Creek, Calif. Locking device. No. 1,436,207; Nov. 21.
- Spencer, William H., assignor to I. P. Frink, Inc., New York, N. Y. Lighting-accessory suspension. No. 1,422,796; July 11.
- Spengeman, Lawrence R., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum tube. No. 1,438,969; Dec. 19.
- Spengler, Hugo F., Chicago, Ill. Automatic stop for phonographs. No. 1,434,412; Nov. 7.
- Spengler, Lewis A., Los Angeles, Calif. Camping bed. No. 1,409,421; Mar. 14.
- Spengler Loomis Mfg. Co. (See Ensign, Emory S., assignor.)
- Spensley, Jacob W. (See Porter, Wilfrid H., assignor.)
- Sperlich, Herman A., Highland Park, assignor to Crystal Washing Machine Company, Detroit, Mich. Wringer support. No. 1,420,157; June 20.
- Sperling, Louis. (See Van Osdal, William J., assignor.)
- Sperling, Martin, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Electrode with cooled metallic heads. No. 1,408,418; Feb. 28.
- Sperman, William B., Mounds, Okla. Commutator. No. 1,414,313; Apr. 25.
- Spero, Angelo A., New York, N. Y. Embroidery frame. No. 1,410,964; Mar. 28.
- Sperr, Frederick W., Jr., and R. L. Brown, assignors to The Koppers Company, Pittsburgh, Pa. Recovery of pyridine from ammonium-sulphate solutions. No. 1,414,441; May 2.
- Sperr, Frederick W., Jr., and H. J. Rose, assignors to The Koppers Company, Pittsburgh, Pa. Electric furnace. No. 1,418,984; June 6.
- Sperry, Arthur B. (See Williams, S. B., Jr., and Sperry.) (Reissue.)
- Sperry, Arthur B., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,406,236; Feb. 14.
- Sperry, Elmer A., Brooklyn, N. Y. Trench searchlight. No. 1,403,876; Jan. 17.
- Sperry, Elmer A., Brooklyn, N. Y. Military searchlight. No. 1,412,757; Apr. 11.
- Sperry, Elmer A., Brooklyn, N. Y. Launching mechanism for aeroplanes. No. 1,415,847; May 9.
- Sperry, Elmer A., Brooklyn, N. Y. Automatic pilot for aeroplanes. No. 1,418,335; June 6.
- Sperry, Elmer A., Brooklyn, N. Y. Signaling apparatus for detecting submarines. No. 1,426,337; Aug. 15.
- Sperry, Elmer A., Brooklyn, N. Y. Visual signaling means. No. 1,426,338; Aug. 15.
- Sperry, Elmer A., Brooklyn, N. Y. Means for detecting submarine boats. No. 1,427,560; Aug. 29.
- Sperry, Elmer A., Brooklyn, N. Y. Wireless repeater system. No. 1,428,507; Sept. 5.
- Sperry, Elmer A., Brooklyn, N. Y. Fuel injecting and igniting means for oil engines. No. 1,432,114; Oct. 17.

Alphabetical list of patentees—Continued.

- Sperry, Elmer A., Brooklyn, N. Y. Universally-mounted searchlight. No. 1,439,028; Dec. 19.
- Sperry, Elmer A., and E. A. Sperry, Jr., Brooklyn, N. Y. Sighting device for ordnance. No. 1,412,758; Apr. 11.
- Sperry, Elmer A., assignor to Sperry Gyroscope Company, Brooklyn, N. Y. Correction device for repeater compasses. No. 1,403,062; Jan. 10.
- Sperry, Elmer A., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Turn indicator. No. 1,407,491; Feb. 21.
- Sperry, Elmer A., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Gyroscopic apparatus for torpedos. No. 1,421,854; July 4.
- Sperry, Elmer A., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Rotor for gyroscopes. No. 1,426,336; Aug. 15.
- Sperry, Elmer A., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Wire-wound gyro rotor. No. 1,426,339; Aug. 15.
- Sperry, Elmer A., Jr. (See Sperry, Elmer A., and E. A., Jr.)
- Sperry, Elmer A., Jr., Brooklyn, N. Y. Depth-controlled mine. No. 1,415,614; May 9.
- Sperry Gyroscope Company. (See Bassett, Preston R., assignor.)
- Sperry Gyroscope Company, The. (See Brewerton, Arthur E., assignor.)
- Sperry Gyroscope Company, The. (See Colvin, Charles H., assignor.)
- Sperry Gyroscope Company. (See Davis, Arthur P., assignor.)
- Sperry Gyroscope Company, The. (See Day, Edwin W., assignor.)
- Sperry Gyroscope Company, The. (See Meitner, Elemer, assignor.)
- Sperry Gyroscope Company, The. (See Patterson, Martin L., assignor.)
- Sperry Gyroscope Company, The. (See Schein, Alexander E., assignor.)
- Sperry Gyroscope Company. (See Sperry, Elmer A., assignor.)
- Sperry Gyroscope Company, The. (See Sperry, Lawrence B., assignor.)
- Sperry Gyroscope Company, The. (See Tanner, Harry L., assignor.)
- Sperry, Herbert B., Chicago, Ill., assignor to International Harvester Company. Dispensing mechanism for potato planters. No. 1,410,843; Mar. 28.
- Sperry, Joseph H. (See Sperry, Charles F. and J. H.)
- Sperry, Lawrence B., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Automatic pilot for aeroplanes. No. 1,415,003; May 2.
- Sperry, Lawrence B., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Aerial torpedo. No. 1,418,605; June 6.
- Sperry, Lawrence B., Garden City, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Turn indicator. No. 1,433,102; Oct. 24.
- Sperry, Samuel E., Woodhaven, assignor to Intertype Corporation, Brooklyn, N. Y. Slug-trimming knife for line-casting machines. No. 1,426,231; Aug. 15.
- Sperry, Charles F., Chicago, Ill. Radiator outlet. No. 1,413,624; Apr. 25.
- Sperry, Charles F., Chicago, Ill. Radiator for explosive engines. No. 1,420,878; June 27.
- Sperry, Charles F., Chicago, Ill. Radiator for motor vehicles. No. 1,422,315; July 11.
- Sperry, Charles F., Chicago, Ill. Radiator core. No. 1,434,853; Nov. 7.
- Sperry, Charles F. and J. H., Chicago, Ill. Radiator core. No. 1,425,146; Aug. 8.
- Spicer, Charles W., Towson, Md. Punching machine. No. 1,424,856; Aug. 8.
- Spicer, Clarence W., Plainfield, assignor to Spicer Mfg. Corporation, South Plainfield, N. J. Flexible coupling. No. 1,416,134; May 16.
- Spicer, Clarence W., Plainfield, assignor to Spicer Mfg. Corporation, South Plainfield, N. J. Flexible coupling. No. 1,438,273; Dec. 12.
- Spicer, Edward, Vancouver, British Columbia, Canada. Covering for boilers, pipes, and the like. No. 1,436,298; Nov. 21.
- Spicer, John P., assignor of one-fourth to A. H. Cornog and one-fourth to A. V. E. Cornog, Philadelphia, Pa. Safety and emergency attachment for tires. No. 1,404,802; Jan. 31.
- Spicer Mfg. Corporation. (See Spicer, Clarence W., assignor.)
- Spicer Mfg. Corporation. (See Tarbox, Gurdon L., assignor.)
- Spiegler, Irving E., et al. (See Spiegler, Mandel, assignor.)
- Spiegler, Mandel, assignor of one-fourth to I. E. Spiegler, one-fourth to M. Kaufman, Brooklyn, N. Y., and one-fourth to J. Fisher, Rose, N. J. Necktie. No. 1,431,268; Oct. 10.
- Spielberger, Abe R., Atlanta, Ga. Fountain comb and cartridge therefor. No. 1,407,230; Feb. 21.
- Spielman, Maximilian H., New York, N. Y. Electric cigar lighter. No. 1,436,299; Nov. 21.
- Spielmann, Bernhard, San Francisco, Calif. Window-sash latch. No. 1,402,907; Jan. 10.
- Spieess, Jules G. (See Kuhn, F. Thomas, and Spieess.)
- Spieeth, Edward G., Amherst, Nebr. Mouse and rat trap. No. 1,428,918; Sept. 12.
- Spillane, John J., Waseca, Minn. Chimney cleaner. No. 1,436,784; Nov. 28.
- Spillane, William T., Crookston, Minn. Railway safety appliance. No. 1,426,922; Aug. 22.
- Spiller, Gilbert E. H., Eaglehurst, Chagford, England. Guard for circular saws. No. 1,422,316; July 11.
- Spillman, Hyrum, Pocatello, Idaho. Grate. No. 1,408,481; Mar. 7.
- Spillmann, Max, Richfield, N. J., assignor to Worthington Pump and Machinery Corporation. Turbine-driven centrifugal pump. No. 1,431,190; Oct. 10.
- Spilman, Oliver F., Houston, Tex. Gaming apparatus. No. 1,439,199; Dec. 19.
- Spilsbury, Beulah G., assignor to The Munsingwear Corporation, Minneapolis, Minn. Garment-display support. No. 1,404,803; Jan. 31.
- Spink, Richard A., Oskosh, Wis. Tire patch or the like. No. 1,409,601; Mar. 14.
- Spirella Company, The. (See Griner, Alvah A., assignor.)
- Spiro, Charles, New York, N. Y. Reflex camera. No. 1,421,735; July 4.
- Spiro, Charles, New York, N. Y. Curtain camera shutter. No. 1,421,736; July 4.
- Spiro, Charles, assignor to Gourland Typewriter Corporation, New York, N. Y. Typewriter-ribbon vibrator. No. 1,402,264; Jan. 3.
- Spiro, Charles, assignor to Federal Adding Machine Corporation, New York, N. Y. Carriage control mechanism. No. 1,402,265; Jan. 3.
- Spiro, Charles, assignor to Federal Adding Machine Corporation, New York, N. Y. Line-spacing mechanism. No. 1,402,266; Jan. 3.
- Spiro, Charles, assignor to Federal Adding Machine Corporation, New York, N. Y. Bell ringer and line lock. No. 1,410,773; Mar. 28.
- Spiro, Leon, Everett, Wash. Invisible lock for metal beds. No. 1,403,206; Jan. 10.
- Spiro, Walter J., White Plains, N. Y. Receptacle holder. No. 1,425,550; Aug. 15.
- Spiselman, Louis, Brooklyn, N. Y. Slicing machine. No. 1,418,104; May 30.
- Spiter, Mary, Detroit, Mich. Hair waver. No. 1,412,494; Apr. 11.
- Spittler, Peter J., Trempealeau, Wis. Cover for cans. No. 1,420,772; June 27.
- Spitz, Charles, New York, N. Y. Bunsen burner. No. 1,436,920; Nov. 28.
- Spitz, Samuel, assignor to W. V. Pumphrey and H. W. Schnebly, Oakland, Calif. License-plate holder. No. 1,407,896; Feb. 28.
- Spitz, Samuel, assignor, by mesne assignments, to Wireless Spitzscope Company, Oakland, Calif. Method and apparatus for utilizing sound vibrations. No. 1,409,794; Mar. 14.
- Spitzer, Charles S., and J. Gloub, Chicago, Ill. Cabinet for phonographs. No. 1,402,383; Jan. 3.
- Spitzer, Jacob, Oak Park, Ill. Bloomers. No. 1,432,091; Oct. 17.
- Spitzfaden, Bernhard, Brooklyn, N. Y. Self-closing and controlling means for doors. No. 1,423,467; July 18.
- Spivey, William C., Columbia, Ala. Combined cultivator and harrow. No. 1,402,680; Jan. 3.
- Splitdorf Electrical Company. (See Aiken, Edward L., assignor.)
- Splitdorf Electrical Company. (See Borger, Henry E., assignor.)
- Splitdorf Electrical Company. (See Dean, William W., assignor.)
- Splitdorf Electrical Company. (See Erickson, Albert, assignor.)
- Splitdorf Electrical Company. (See Mason, Charles T., assignor.)
- Splitdorf Electrical Company. (See McKeown, Samuel C., assignor.)
- Splitdorf Electrical Company. (See Swanson, Frank A., assignor.)
- Splitdorf Electrical Company. (See Tiedmann, Henry, assignor.)
- Splitdorf Electrical Company. (See Tomlinson, Edward J., assignor.)
- Splitdorf Electrical Company. (See Van Deventer, Harry R., assignor.)
- Splitdorf Electrical Company. (See Werner, Leo J., assignor.)
- Spaelstra, Sieben J. (See Maus, Frank, assignor.)
- Sperry, André. (See de Freudenreich, J., and Sperry.)
- Spofford, George E., Langley, S. C., assignor to Draper Corporation, Hopedale, Mass. Cross-weaving loom. No. 1,439,029; Dec. 19.
- Sponh, John H., Jr., San Francisco, Calif. Dispensing apparatus for mixing sirup and water. No. 1,435,883; Nov. 14.
- Spohrer, Edward A. (See McAdams, W. J., and Spohrer.)
- Spohrer, Gregory J., East Orange, N. J. Vehicle dumping and jacking means. No. 1,414,835; May 2.
- Spohrer, Gregory J., East Orange, N. J. Truck tire pump. No. 1,415,725; May 9.
- Spokane Irrigation Pump Company. (See Crawford, Middleton, assignor.)
- Spon, Charles A. (See Lloyd, H. G., and Spon.)

Alphabetical list of patentees—Continued.

- Spooner, Allen N., et al. (See Nordstrom, John P., assignor.)
- Spooner, Henry J. (See Robinson, Edwin L., assignor.)
- Spooner, Thomas, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Rheostat. No. 1,433,750; Oct. 31.
- Sporer, Paul, Chicago, Ill. Milk-bottle and groceries holder. No. 1,408,840; Mar. 7.
- Spotless Co. Inc., The. (See Cone, Milton, assignor.)
- Spotswood, Frank D. (See Hauck, Bernard K., assignor.)
- Spotswood Specialty Co. (See Hauck, Bernard K., assignor.)
- Sprague, Albert, Longmont, Colo. Ground-treating implement. No. 1,424,857; Aug. 8.
- Sprague, Albert W. (See Carter, E. V., and Sprague.)
- Sprague Canning Machinery Company. (See Babcock, Basil P., assignor.)
- Sprague Canning Machinery Company. (See Babcock, Leland A., assignor.)
- Sprague Canning Machinery Company. (See Bucklin, Charles S., assignor.)
- Sprague Canning Machinery Company. (See Foster, F. A., and Fraley, assignors.)
- Sprague Canning Machinery Company. (See Glass, George, assignor.)
- Sprague Canning Machinery Company. (See Holmquist, August, assignor.)
- Sprague Canning Machinery Company. (See Hughes, Arthur, assignor.)
- Sprague Canning Machinery Company. (See Hughes, Author E., assignor.)
- Sprague, Charles B., assignor to Diamond Iron Works, Minneapolis, Minn. Sawmill hog. No. 1,436,208; Nov. 21.
- Sprague, Clarence A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signal-controlling system. No. 1,439,771; Dec. 26.
- Sprague, Edward, jr., Evanston, assignor of one-half to R. Ripper, Chicago, Ill. Coffee-making device. No. 1,431,603; Oct. 10.
- Spring, Frederick L., Indianapolis, Ind. Shock absorber. No. 1,429,699; Sept. 19.
- Sprague, George E., Cambria, Ill. Ratchet crank. No. 1,424,045; July 25.
- Sprague, George L., et al. (See Leonard, H. C., and Westrom, assignors.)
- Sprague, John V., Pittsburgh, assignor of one-half to H. W. Cross, Bellevue, Pa. Humidor. No. 1,414,381; May 2.
- Spray Engineering Company. (See Day, Herbert W., assignor.)
- Spray Engineering Company. (See Parker, L. H., and Day, assignors.)
- Sprecher, Harry M., Ephrata, Pa. Milk-cooling apparatus. No. 1,426,515; Aug. 22.
- Spreckels, John D., sr., et al., executors. (See Spreckels, J. D., jr., and Laborda.)
- Spreckels, John D., jr., deceased, and R. Laborda, San Francisco, Calif.; J. D. Spreckels, sr., and W. D. K. Gibson, executors. Sugar packing and boxing machine. No. 1,439,983; Dec. 26.
- Spreckels, Walter P. (See Smend, W. C., and Spreckels.)
- Spreckmeester, Emanuel, Amsterdam, Netherlands. Propeller. No. 1,413,296; Apr. 18.
- Sprenger, George K., Pittsburgh, Pa. Mortising machine. No. 1,405,027; Jan. 31.
- Sprengnether, William F., assignor of one-half to R. Pinkenson, St. Louis, Mo. Sun shield for automobiles. No. 1,427,332; Aug. 29.
- Spring, Joseph. (See Nystrom, M., and Spring.)
- Spring Stopper Company. (See Brown, Harry M., assignor.)
- Spring Valley Metal Stamping Corporation. (See Goldfield, Abraham T., assignor.)
- Spring, Wilbert T., San Francisco, Calif. Apparatus for producing concrete and plastic work. No. 1,438,506; Dec. 12.
- Springborn, Richard, Cleveland, Ohio. Universal pipe joint. No. 1,402,545; Jan. 3.
- Springborn, Richard, Cleveland, Ohio. Valve. No. 1,425,708; Aug. 15.
- Springfeld, Otto, and L. Czerny, Berlin, Germany. Method of and apparatus for taking and reproducing cinematographic pictures with musical accompaniment. No. 1,428,995; Sept. 12.
- Springer, Ernest C., Kansas City, Mo. Grinding and polishing machine. No. 1,405,454; Feb. 7.
- Springer, Franklin W., Minneapolis, Minn. Liquid-fueled system for gas engines. No. 1,418,489; June 6.
- Springer, Franklin W., Minneapolis, Minn. Cooling and heating system for internal-combustion engines. No. 1,438,067; Dec. 5.
- Springer, John E., Norfolk, Va. Alloy. No. 1,413,880; Apr. 25.
- Springer, Roy D., Gresham, Ore. Ironing table. No. 1,432,215; Oct. 17.
- Springer, Ruter W., Carlisle, Pa. Whistle. No. 1,403,274; Jan. 10.
- Springer, Thomas E., Cleveland, Ohio. Power control for airships. No. 1,412,262; Apr. 11.
- Springfield Auto Lock Company, The. (See Pfeiffer, John, assignor.)
- Springfield, Garland P., assignor of one-half to O. H. Byrum, Evansville, Ind. Signal. No. 1,435,749; Nov. 14.
- Springfield Metallic Casket Company, The. (See Buckhardt, Jacob R., assignor.)
- Springfield Metallic Casket Company, The. (See Watts, Thomas A., assignor.)
- Springman, Sidney H., Torrance, assignor of one-half to R. Eilmann, Los Angeles, Calif. Trolley retriever. No. 1,405,348; Jan. 31.
- Springmeyer, Edward F. (See Roth, William, assignor.)
- Springstead, Harmon C., Hamilton, Ontario, Canada. Yarn stripper. No. 1,403,354; Jan. 10.
- Sprinkle, Lake H., Brooklyn, N. Y. Connecting the backing and facing of a tooth. No. 1,405,874; Feb. 7.
- Sproat, Harry J., Lansing, Mich., assignor of one-fourth to A. A. Landon and one-fourth to H. J. Rente, Buffalo, N. Y. Voting apparatus. No. 1,420,879; June 27.
- Sprock, Stanley J., and R. Dunn, Clarksville, Pa. Mine-car brake. No. 1,419,773; June 13.
- Sproessig, Richard F., Holton, Ind. Making metal packing. No. 1,435,563; Nov. 14.
- Sprout, William C., Rockford, Ill. Milling machine. No. 1,418,490; June 6.
- Sprout, George F., Montgomery, Ala. Gang frame for agricultural implements. No. 1,414,228; Apr. 25.
- Sprout, Waldron & Company. (See Snyder, Simon, assignor.)
- Sprout, William L., Sherman, Tex. Seed planter and marker. No. 1,407,097; Feb. 21.
- Spruell, William T., Phoenix, Ariz. Attachment for seed planters. No. 1,403,456; Jan. 10.
- Sprung, Abraham, New York, N. Y. Lock. No. 1,404,556; Jan. 24.
- Spry, Franklin B., Plymouth, Pa. Expanding auger. No. 1,427,705; Aug. 29.
- Spurck, Robert M., Schenectady, N. Y., assignor to General Electric Company. Electrical protective device. No. 1,405,455; Feb. 7.
- Spurgin, Robert, Jr., Chicago, Ill. Belt-shifting device. No. 1,402,022; Jan. 3.
- Spurgin, Robert, Jr., Chicago, Ill. Belt shifter. No. 1,415,271; May 9.
- Spurk, Peter N., and R. Stramitz, Detroit, Mich. Nut-tapping machine. No. 1,416,135; May 16.
- Spurling, Sidney G., Portland, Ore. Gypsy or side curtain for automobile or side tops. No. 1,417,866; May 30.
- Spyrosal Manufacturing Company. (See Ford, John W., assignor.)
- Square D Company. (See Freeman, Harry S., assignor.)
- Square D Company. (See Pickareck, Joseph H., assignor.)
- Square D Company. (See Zenker, F., and Schepperly, assignors.)
- Squibb, E. R., & Sons. (See Kober, Philip A., assignor.)
- Squibb, Lloyd Y., Camden, N. J., assignor to Victor Talking Machine Company. Automatic talking machine. No. 1,433,103; Oct. 24.
- Squire, Fred, Peabody, Kans. Torch. No. 1,411,589; Apr. 4.
- Squire, Gayle L., Hastings, Fla. Truck. No. 1,424,528; Aug. 1.
- Squire, Harry E., Oakland, and H. Newsom, San Francisco, Calif. Producing composite piles. No. 1,409,422; Mar. 14.
- Squire Products Company. (See Mievile, Herbert C., assignor.)
- Squires, Curtis A., Lyndonville, Vt. Garment clasp. No. 1,426,611; Aug. 22.
- Squyer, Albert R., Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Calculator for tractor performance. No. 1,429,463; Sept. 19.
- Stables, Arthur, Los Angeles, Calif. Separator for nut meats from broken nuts. No. 1,416,585; May 16.
- Stachofski, August, Whitla, Alberta, Canada. S hook. No. 1,434,924; Nov. 7.
- Stack, George B., Sacramento, Calif. Flush valve. No. 1,409,602; Mar. 14.
- Stackhouse, George, assignor to Pacific Spring Bed Co., Berkeley, Calif. Folding bed. No. 1,409,423; Mar. 14.
- Stackhouse, John H., assignor of one-half to J. M. Officer, Denver, Colo. High-power oil-returning piston. No. 1,432,799; Oct. 24.
- Stackpole Carbon Company. (See Sullivan, Alan P., assignor.)
- Stacy, Ezra Q., Thomasville, Ga. Hanger for swings and other articles. No. 1,408,912; Mar. 7.
- Stacy, Grover C., Dallas, Tex. Cotton separator. No. 1,410,038; Mar. 21.
- Stacy, Grover C., Dallas, Tex. Automatic feed control. No. 1,440,031; Dec. 26.
- Stacy, Henry L., Casper, Wyo. Carrier for automobiles. No. 1,437,477; Dec. 5.
- Stacy, William S., Ashland, Ore. Concentrator. No. 1,410,616; Mar. 28.
- Stadelman, Joseph G., Chicago, Ill. Wooden building. No. 1,423,468; July 18.
- Stader, Otto, Oconomowoc, Wis. Veterinary surgical instrument. No. 1,422,490; July 11.
- Stadlman, Anthony, et al. (See Laughead, Malcolm, assignor.)
- Stadniczek, John, Elizabeth, N. J. Violin bow. No. 1,402,908; Jan. 10.
- Staeger, Stephen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Antihunting regulator system. No. 1,419,421; June 13.

- Staeger, Stephen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Anthracting regulator system. No. 1,419,422; June 13.
- Staeger, Stephen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Speed-regulator system. No. 1,438,616; Dec. 12.
- Staehli, Edward, La Grange, Ill. Pendant-setting mechanism. No. 1,407,281; Feb. 21.
- Stafford, Alfred E., assignor to Draper Corporation, Hopedale, Mass. Filling-end clearer for filling-replenishing looms. No. 1,422,727; July 11.
- Stafford, Alfred E., assignor to Draper Corporation, Hopedale, Mass. Transfer mechanism for looms. No. 1,427,421; Aug. 29.
- Stafford, Benjamin E. D., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,417,115; May 23.
- Stafford, Benjamin E. D., and F. K. Landgraf, assignors to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,434,413; Nov. 7.
- Stafford Company, The. (See Carlson, Carl A., assignor.)
- Stafford Company, The. (See Jackson, Simeon S., assignor.)
- Stafford, Earl E., Indianapolis, Ind. Making nickel-plated half-tone plates. No. 1,434,798; Nov. 7.
- Stafford, Frederick S., assignor to H. G. Seal, Chicago, Ill. Wheel. No. 1,423,694; July 25.
- Stafford, Hal R., deceased, North Plainfield, N. J.; M. M. Stafford, administratrix. Automatic shut-off for locomotive steam pipes. No. 1,405,950; Feb. 7.
- Stafford, Ion A., Jamestown, N. Y. Desk-drawer lock. No. 1,422,631; July 11.
- Stafford, J. B., et al. (See Macmanus, Augustus F. W., assignor.)
- Stafford, Leo K., New York, N. Y. Journal box and mounting. No. 1,406,099; Feb. 7.
- Stafford, Lewis F., Chicago, Ill. Automobile bumper. No. 1,405,456; Feb. 7.
- Stafford, Lewis F., Chicago, Ill. Automobile bumper. No. 1,414,382; May 2.
- Stafford, Lewis F., assignor to Stafford Spring Guard Co., Chicago, Ill. Bumper. No. 1,436,118; Nov. 21.
- Stafford, Mary M., administratrix. (See Stafford, Hal R.)
- Stafford, Roy M., Sour Lake, assignor to Lake Tool Company, Hardin County, Tex. Standing valve for pumps. No. 1,425,710; Aug. 15.
- Stafford, S. S., Inc. (See Hurst, William J., assignor.)
- Stafford Spring Guard Co. (See Stafford, Lewis F., assignor.)
- Stage, Harold I., Easton, Pa. Pneumatic drill column. No. 1,418,336; June 6.
- Stage, Harold I., Easton, Pa. Feeding means for drills. No. 1,425,613; Aug. 15.
- Stage, Harold I., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Automatic air-fired control for rock drills. No. 1,407,599; Feb. 21.
- Staggers, William F., Mannington, W. Va. Window-sash fastener for locking windows in partially-open position. No. 1,407,006; Feb. 21.
- Staggers, William F., Mannington, W. Va. Antilock device for steering gears. No. 1,423,820; July 25.
- Stagner, Bert A., Pittsburgh, Pa., assignor, by mesne assignments, to National Retarder Company, Chicago, Ill. Growing of yeast. No. 1,425,065; Aug. 8.
- Staggs, Fred and M. Reynolds, Shamrock, Tex. Lock for automobiles. No. 1,430,472; Sept. 26.
- Stahl, Allen A., Sheridan, Ind. Attachment for corn planters. No. 1,429,700; Sept. 19.
- Stahl, Carroll C., Lemoine, Pa. Closure fastener. No. 1,404,557; Jan. 24.
- Stahl, Charles E. (See Vaughn, G. A., and Stahl.)
- Stahl, Charles E., Winthrop Harbor, assignor to F. C. Austin, Chicago, Ill. Multipedal traction mechanism. No. 1,402,186; Jan. 3.
- Stahl, Charles E., assignor to The Parsons Company, Newton, Iowa. Swivel fair lead. No. 1,433,751; Oct. 31.
- Stahl, Gustav H., Menomonie, Wis., assignor to Progress Manufacturing Company, Erie, Pa. Tool holder. No. 1,422,491; July 11.
- Stahl, Hugo, Stuttgart, Germany. Hoisting device. No. 1,434,457; Nov. 7.
- Stahl, Hugo, Stuttgart, Germany, assignor to F. W. Buse, Pittsburgh, Pa. Chain wheel. No. 1,412,068; Apr. 11.
- Stahl, Karl, assignor to the Firm Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Ballast container for aircraft. No. 1,418,491; June 6.
- Stahl, Karl, assignor to Firm of Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Cardanic suspension. No. 1,419,176; June 13.
- Stahl, Karl, assignor to Firm Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Safety valve. No. 1,419,177; June 13.
- Stahl, Karl, assignor to Firm Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Command transmission in aircraft. No. 1,433,688; Oct. 31.
- Stahl, Karl, assignor to Firm Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Aircraft ladder. No. 1,439,030; Dec. 19.
- Stahl, Max, assignor to The Wahl-Henius Research Laboratory, Chicago, Ill. Producing cereal beverages. No. 1,421,737; July 4.
- Stahl, Max, assignor to Wahl-Henius Institute, Chicago, Ill. Producing low-alcoholic beer. No. 1,432,422; Oct. 17.
- Stahlbrodt, Henry F., Erie, Pa. Collapsible tap. No. 1,409,603; Mar. 14.
- Stahle, Carl W., Everett, Mass. Combined coat and hat holder. No. 1,415,126; May 9.
- Stainbrook, Forest A., Boston, Mass., assignor to Magnetic Drink Mixer Company. Electrical drink mixer. No. 1,420,773; June 27.
- Stainbrook, Forest A., Boston, Mass., assignor to Magnetic Drink Mixer Company. Electrical drink mixer. No. 1,420,774; June 27.
- Stair, Blaine A., Los Angeles, Calif. Ear stopper. No. 1,406,425; Feb. 14.
- Stakutis, John, Chicago, Ill. Bird cage. No. 1,420,880; June 27.
- Stalberg, Sven, Nahant, Mass., assignor to General Electric Company. Focusing mechanism for projectors. No. 1,422,385; July 11.
- Stalcup, Clarence F., Sioux Falls, S. Dak. Roller jack. No. 1,405,349; Jan. 31.
- Stalder, John W., Lincoln, Nebr. Post. No. 1,416,586; May 16.
- Staley, Joseph H., Knightstown, Ind. Rotatable worktable. No. 1,409,257; Mar. 14.
- Staley, Joseph H., Columbus, Ind. Arbor press. No. 1,421,738; July 4.
- Staley, Marion G. (See Donahue, J. F., and Staley.)
- Staley, Ward W. (See Davala, J. D., and Staley.)
- Stålthane, Otto, and O. O. Krings, Djursholm, Sweden. Coating metal objects with a layer of another metal. No. 1,426,683; Aug. 22.
- Stalker, Frederick W., F. K. Taylor, and L. B. Swift, assignors to Taylor Instrument Companies, Rochester, N. Y. Circuit-closing mechanism. No. 1,435,186; Nov. 14.
- Stall, Walter T., assignor to Stall & Dean Manufacturing Company, Brockton, Mass. Sweatband. No. 1,434,854; Nov. 7.
- Stall & Dean Manufacturing Company. (See Stall, Walter T., assignor.)
- Stalling, Carl W., Kansas City, Mo. Portfolio for sheet music. No. 1,416,903; May 23.
- Stallman, Granville H., Chicago, Ill. Rotary pump or compressor. No. 1,418,741; June 6.
- Stalman, Gerhard, Dusseldorf-Oberkassel, Germany. Manufacture of p-cymol. No. 1,433,666; Oct. 31.
- Stalman, Otto, Salt Lake City, Utah. Condensing apparatus. No. 1,439,274; Dec. 19.
- Stamets, Ira E., Los Angeles, Calif. Combination desk pad. No. 1,412,318; Apr. 11.
- Stamey, De Keller, Yonkers, N. Y. Garment fastener. No. 1,437,206; Nov. 28.
- Stamm, Edgar O., Cincinnati, Ohio. Riddle. No. 1,406,237; Feb. 14.
- Stamm, Max, and H. Tucker, Philadelphia, Pa. Roller bearings. No. 1,434,855; Nov. 7.
- Stamm, William E., Sibley, Iowa. Signal for highways. No. 1,409,477; Mar. 14.
- Stamp, Burnie A., North Braddock, Pa. Shipping crate. No. 1,410,227; Mar. 21.
- Stampen, Jacob J. (See Babson, H. B., and Stampen.)
- Stanalan, William, Garrison, Tex. Boll-weevil catcher. No. 1,424,265; Aug. 1.
- Stanbon, Charles P., Lynn, Mass. Vehicle spring. No. 1,418,031; May 30.
- Stanbon, Harry R., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Vamp gauge for punching machines. No. 1,430,697; Oct. 3.
- Stanbrough, Nelson, Ouray, Colo. Auto power-transmitting jack. No. 1,432,363; Oct. 17.
- Stancliffe, Cecil W., Toronto, Canada, assignor to Pneumercator Company, New York, N. Y. Manometer. No. 1,421,739; July 4.
- Standard Accessory Corporation. (See Bernecker, George E., assignor.)
- Standard Armature Winding Machine Company. (See Rhoades, P. F., and Welling, assignors.)
- Standard Automatic Machine Company. (See Gosselin, Alphonse J., assignor.)
- Standard Cap and Seal Corporation. (See Tavander, Olof N., assignor.)
- Standard Car Truck Company. (See Barber, Franklin L., assignor.)
- Standard Car Truck Company. (See Webb, Edwin W., assignor.)
- Standard Chair Company, The. (See Lambeth, James E., assignor.)
- Standard Chemical Company. (See Mueller, F. F., and Harris, assignors.)
- Standard Chemical Company. (See Viol, Charles H., assignor.)
- Standard Chemical Company. (See Vogt, Louis F., assignor.)
- Standard Computing Scale Company, The. (See Jaenichen, Louis, assignor.)
- Standard Conveyor Company. (See Donaldson, William T., assignor.)
- Standard Conveyor Company. (See Lister, Charles H., assignor.)
- Standard Conveyor Company. (See Tingwall, L. G., and Johnson, assignors.)

Alphabetical list of patentees—Continued.

- Standard Conveyor Company. (See Wego, Peter C., assignor.)
- Standard Coupler Company. (See Gallagher, Richard D., jr., assignor.)
- Standard Deep Well Company. (See Haney, Lewis H., assignor.)
- Standard Development Company. (See Benton, Harry O., assignor.)
- Standard Development Company. (See Buc, Hyym E., assignor.)
- Standard Development Company. (See Haupt, Charles H., assignor.)
- Standard Envelope Sealer Manufacturing Company. (See Foote, Edward H., assignor.)
- Standard Flexible Conduit Corporation. (See Langer, Julius J., assignor.)
- Standard Food Products Company. (See MacLachlan, John C., assignor.)
- Standard Forgings Company. (See Jernberg, C. R., Metzger, and Larson, assignors.)
- Standard Forgings Company. (See Jernberg, Carl R., assignor.)
- Standard-Johnson Co. (See Donnellan, Edward P., assignor.)
- Standard Light Control Company. (See Ebeling, R. W., and Fanger, assignors.)
- Standard Manufacturing Company. (See Voorhees, Walter K., assignor.)
- Standard Motor Construction Company. (See Riotte, Eugene A., assignor.)
- Standard Oil Company. (See Brincker, J. E., and McNeil, assignors.)
- Standard Oil Company. (See Burgess, Louis, assignor.)
- Standard Oil Company. (See Clark, Edgar M., assignor.)
- Standard Oil Company. (See Cobb, Ernest B., assignor.)
- Standard Oil Company. (See Diggs, Sterling H., assignor.)
- Standard Oil Company. (See Ellis, Carleton, assignor.)
- Standard Oil Company. (See Gerstenberger, Henry L., assignor.)
- Standard Oil Company. (See Howard, F. A., and Jennings, assignors.)
- Standard Oil Company. (See Howard, F. A., Robinson, and Jennings, assignors.)
- Standard Oil Company. (See Jennings, James M., assignor.)
- Standard Oil Company. (See Lebo, Robert B., assignor.)
- Standard Oil Company. (See Mann, Matthew D., Jr., assignor.)
- Standard Oil Company. (See Robinson, Clarence I., assignor.)
- Standard Oil Company of California. (See Chappell, M. L., and Moore, assignors.)
- Standard Oil Company of California. (See Hanna, Richard W., assignor.)
- Standard Oil Company of California. (See Raftery, William J., assignor.)
- Standard Oil Company of New Jersey. (See Robinson, Clarence I., assignor.)
- Standard Oil Company of New York. (See Smart, Henry C., assignor.)
- Standard Oil Company of New York. (See Stockford, Charles E., assignor.)
- Standard Parts Company. (See Baker, Walter C., assignor.)
- Standard Parts Company, The. (See Bryant, Richard S., assignor.)
- Standard Parts Company, The. (See Butcher, Harry E., assignor.)
- Standard Parts Company, The. (See Hoefflinger, Austin D., assignor.)
- Standard Parts Company, The. (See Jobski, Otto H., assignor.)
- Standard Parts Company, The. (See Kent, Bert M., assignor.)
- Standard Parts Company, The. (See Keys, Walter C., assignor.)
- Standard Parts Company, The. (See Kricker, George E., assignor.)
- Standard Parts Company, The. (See Stinson, Floyd, assignor.)
- Standard Parts Company, The. (See Swander, Dan C., assignor.)
- Standard Parts Company, The. (See Theberath, Joseph C., assignor.)
- Standard Parts Company, The. (See Torbensen, Viggo V., assignor.)
- Standard Parts Company, The. (See Zimmermann, Thomas, assignor.)
- Standard Register Company, The. (See Buschmeyer, Clarence R., assignor.)
- Standard Rubber Works Proprietary Limited, The. (See Ostberg, A. J., and Kenny.)
- Standard Screw Company. (See Ehrman, Edwin H., assignor.)
- Standard Sheet Metal Works. (See Bloedow, H., and Schaffner, assignors.)
- Standard Steel and Bearings Incorporated. (See Neal, Elmer E., assignor.)
- Standard Steel and Bearings Incorporated. (See Rockwell, Albert F., assignor.)
- Standard Steel and Bearings Incorporated. (See Rockwell, Hugh M., assignor.)
- Standard Steel and Bearings, Incorporated. (See Rockwell, Lea W., assignor.)
- Standard Steel and Bearings Incorporated. (See Woodrow, Irvin F., assignor.)
- Standard Steel Car Company. (See Anderson, Harry T., assignor.)
- Standard Steel Car Company. (See Christianson, Andrew, assignor.)
- Standard Tool Company, The. (See Buck, Clarence C., assignor.)
- Standard Tractor Control Company, The. (See Cline, M., and Herge, assignors.)
- Standard Underground Cable Company. (See Davis, C. W., and Brown, assignors.)
- Standard Underground Cable Company. (See Fisher, H. W., and Atkinson, assignors.)
- Standard Wire Tire Corporation. (See Ryder, John H., assignor.)
- Standard Woven Fabric Company. (See Swift, William C., assignor.)
- Standerer, Henry R., Melvin, Tex. Automatic weighing scale. No. 1,425,911; Aug. 15.
- Stander, Jacob, Brooklyn, N. Y. Signal for automobiles. No. 1,411,755; Apr. 4.
- Standerline, George H. (See Waugh, B. W., and Standerline.)
- Standiford, Fredrick A., Coldwater, Kans. Internal-combustion engine. No. 1,417,697; May 30.
- Standish, Edward K., Stoughton, Mass. Mechanism for counterbalancing pivotally-mounted bodies. No. 1,428,345; Sept. 5.
- Standish, Edward K., Stoughton, Mass. Device for loading projectiles into cannon. No. 1,438,670; Dec. 12.
- Standley, Meredith G., and C. E. Poe, Cincinnati, Ohio. Ribbon feeding and reversing mechanism. No. 1,420,881; June 27.
- Stanfield, James F., Troy, Ohio. Resilient filler. No. 1,420,158; June 20.
- Stanfield, Joseph B. M., Cardiff, assignor of one-half to J. F. Adye, Brentwood, Dinas Powis, Wales. Spring suspension of vehicles. No. 1,427,240; Aug. 29.
- Stanford, Arthur L., Chicago, Ill. Rail anchor. No. 1,406,295; Feb. 14.
- Stanford, Arthur L., Chicago, Ill. Bumper. No. 1,436,364; Nov. 21.
- Stangeland, Peder O., Los Angeles, Calif. Tool holder. No. 1,416,904; May 23.
- Stangier, Bertha, administratrix. (See Sanborn, A. H., and Stangier.)
- Stangier, Bertha, administratrix. (See Stangier, Joseph C.)
- Stangier, Joseph C. (See Sanborn, A. H., and Stangier.)
- Stangier, Joseph C., deceased, Chicago, Ill.; B. Stangier, administratrix. Electromagnetic measuring apparatus. No. 1,422,317; July 11.
- Stangl, Joseph, West Bend, Wis. Heater for stitching machines. No. 1,428,717; Sept. 12.
- Stangl, Joseph, West Bend, Wis. Buffer-wheel cover. No. 1,435,026; Nov. 7.
- Stanis, Joseph, Riverton, Ill. Air compressor. No. 1,426,325; Aug. 15.
- Stanke, William C., Hoboken, N. J. Toy. No. 1,429,789; Sept. 19.
- Stankee, Paul W., Davenport, Iowa. Hog-farrowing guard rail. (Reissue.) No. 15,287; Feb. 14.
- Stankovich, Bozo, San Francisco, Calif. Sieve shaker. No. 1,422,230; July 11.
- Stankovitch, Peter N., Seattle, Wash. Blasting powder. No. 1,412,319; Apr. 11.
- Stanley, Albert E., assignor to Hawaiian Pineapple Company, Limited, Honolulu, Hawaii. Machine for treating fruit. No. 1,430,124; Sept. 26.
- Stanley, Albert M., Palms, Calif. Auto signal. No. 1,406,694; Feb. 14.
- Stanley, Edward E., Emmett, Idaho, assignor, by mesne assignments, to Chester F. Studley, Sonoma, Calif. Raisin stemmer. No. 1,411,528; Apr. 4.
- Stanley, Ernest J. (See Coultas, B. B., and Stanley.)
- Stanley, Frank N., Maplewood, N. J. Nap-restoring device. No. 1,436,921; Nov. 28.
- Stanley, Frederick C., assignor to Raybestos Company, Bridgeport, Conn. Friction facing. No. 1,414,383; May 2.
- Stanley, Frederick C., assignor to Raybestos Company, Bridgeport, Conn. Making friction facings. No. 1,417,778; May 30.
- Stanley, Frederick C., assignor to The Raybestos Company, Bridgeport, Conn. Friction facing. No. 1,417,779; May 30.
- Stanley, Frederick C., assignor to Raybestos Company, Bridgeport, Conn. Making friction facings. No. 1,420,882; June 27.
- Stanley, Frederick C., assignor to Raybestos Company, Bridgeport, Conn. Making clutch rings for motor cars. No. 1,420,883; June 27.
- Stanley, George F., assignor to The Stanley Manufacturing Company, Dayton, Ohio. Greeting card. No. 1,405,635; Feb. 7.
- Stanley Insulating Company. (See Anthon, George C., assignor.)

Alphabetical list of patentees—Continued.

- Stanley Insulating Company. (See Smith, Herbert M., assignor.)
- Stanley, James, New York, N. Y. Combined level; plumb, square, and measure. No. 1,422,231; July 11.
- Stanley, James, and W. H. Carson, West Point, Ga. Calendar rack. No. 1,433,916; Oct. 31.
- Stanley, John C. W. (See MacGregor, D. G., Millen, and Stanley.)
- Stanley, John C. W., Long Beach, assignor to The Title Guarantee and Trust Company, Los Angeles, Calif. Apparatus for treating fish oil and the like. No. 1,425,803; Aug. 15.
- Stanley Manufacturing Company, The. (See Kallenbach, Edward B., assignor.)
- Stanley Manufacturing Company, The. (See Stanley, George F., assignor.)
- Stanley, Richard E., Sr., Pittsburgh, Pa. Means for making cast bowling pins. No. 1,422,232; July 11.
- Stanley, Thomas E., Earlham, Iowa. Hand cultivator. No. 1,406,772; Feb. 14.
- Stanley Tire & Rubber Corporation of Delaware. (See Heller, Robert, assignor.)
- Stanley Works, The. (See Bailey, Clifford E., assignor.)
- Stanley Works, The. (See Eger, George, assignor.)
- Stanley Works, The. (See Hart, W. H., and Gould, assignors.)
- Stanley Works, The. (See Hart, Walter H., assignor.)
- Stanley Works, The. (See Myers, Frank A., assignor.)
- Stanley Works, The. (See Parsons, Stuart W., assignor.)
- Stanley Works, The. (See Robinson, David M., Jr., assignor.)
- Stanley Works, The. (See Waters, Archiebald D., assignor.)
- Stannore, James, and D. Kennedy, Seattle, Wash. Bolt-ing-up device. No. 1,415,726; May 9.
- Stannard, Joseph H., sr., Columbia, S. C. Steam locomotive. No. 1,437,478; Dec. 5.
- Stano, John, Livingston, Ill. Shoe-upper closure. No. 1,431,847; Oct. 10.
- Stansberry, Everett F., Moravia, Iowa. Hayrake. No. 1,406,506; Feb. 14.
- Standsfield, Alfred, Montreal, Quebec, Canada. Reducing ores. No. 1,403,576; Jan. 17.
- Stansill, Edward D., Sapulpa, Okla. Wrench. No. 1,404,665; Jan. 24.
- Stanton, Frederick W., Chicago, Ill. Syringe. No. 1,412,975; Apr. 18.
- Stanton, Frederick W., Chicago, Ill. Syringe. No. 1,412,976; Apr. 18.
- Stanton, Howard M., Indianapolis, Ind. Means for supporting signs or similar articles. No. 1,421,603; July 4.
- Stanton, William H., Ridley Park, Pa. Furnace for producing silicate of soda and the like. No. 1,425,551; Aug. 15.
- Stantorf, Robert, Petersburg, Wis. Ratchet wrench. No. 1,436,610; Nov. 21.
- Stantz, Alfred C., Detroit, Mich. Demountable rim. No. 1,415,272; May 9.
- Stanwood, Edward, Jr., Wellesley, Mass. Device for measuring danger angle in navigation. No. 1,433,667; Oct. 31.
- Stanwood Equipment Company. (See Stanwood, Frank H., assignor.)
- Stanwood, Frank H. (See Germonprez, John A., assignor.)
- Stanwood, Frank H., assignor to Stanwood Equipment Company, Chicago, Ill. Step plate. No. 1,409,125; Mar. 7.
- Stanwood, Frank H., Chicago, Ill., assignor to Stanwood Equipment Co., Boston, Mass. Foot rest for use in connection with automobile accelerators. No. 1,410,351; Mar. 21.
- Stanwood, Frank H., assignor to Stanwood Equipment Company, Chicago, Ill. Nonslipping tread. No. 1,420,775; June 27.
- Stanwood, Frank H., assignor to Stanwood Equipment Company, Chicago, Ill. Step plate. No. 1,420,776; June 27.
- Stanwood, Frank H., Chicago, Ill., assignor to Stanwood Equipment Company, Boston, Mass. Step tread. No. 1,436,414; Nov. 21.
- Stanzel, John, Jr., Windsor, Colo. Safety device for motors. No. 1,429,655; Sept. 19.
- Stapienski, Jan. (See Stapienski, Stanislaw and J.)
- Stapienski, Stanislaw and J., Jersey City, N. J. Clothes-line attachment. No. 1,414,794; May 2.
- Staples, Edward C., and H. H. Dean, Canton, Ohio. Emergency gasoline can. No. 1,417,951; May 30.
- Staples, Ernest A. (See Leavitt, F. S., and Staples.)
- Staples, George, Oshkosh, assignor to Staples and Seefeld. Milwaukee, Wis. Tire-chain holder. No. 1,420,777; June 27.
- Staples, George, Oshkosh, assignor to Staples and Seefeld. Milwaukee, Wis. Attaching device for nonskid chains. No. 1,420,778; June 27.
- Staples, Robert T., assignor to Western Electric Company, Incorporated, New York, N. Y. Condenser and making same. No. 1,425,912; Aug. 15.
- Staples, Willard G., assignor of one-half to Timothy Harrington, Newburyport, Mass. Key holder. No. 1,424,121; July 25.
- Staples and Seefeld. (See Staples, George, assignor.)
- Stapp, Jesse W., Fort Worth, Tex. Clothes hanger. No. 1,402,681; Jan. 8.
- Star, Nick G., Corsica, S. Dak. Aeroplane. No. 1,414,314; Apr. 25.
- Star, Richard, Brooklyn, N. Y. Ship-speed indicator. No. 1,436,611; Nov. 21.
- Star Tool & Manufacturing Company. (See Richer, J. R., and Hessler, assignors.)
- Starace, Achille, & Co. (See Heepe, Wilhelm, assignor.)
- Starbuck, Ernest. (See Howerton, O. N., and Starbuck.)
- Starcher, Ira D., and C. E. Young, Swandale, W. Va. Barrel-stave-cutting machine. No. 1,436,059; Nov. 21.
- Starck, William A. (See Hathaway, C. H., and Starck.)
- Starck, William A., assignor to Badger Manufacturing Corporation, Milwaukee, Wis. Clamp. No. 1,414,756; May 2.
- Stark, Arthur L., assignor to The Stibium Products Company, Elyria, Ohio. Making precipitated antimony sulphide. No. 1,414,836; May 2.
- Stark, Arthur L., assignor to The Stibium Products Company, Elyria, Ohio. Making precipitated antimony sulphide. No. 1,414,837; May 2.
- Stark, Arthur L., assignor to The Stibium Products Company, Elyria, Ohio. Precipitated antimony sulphide and making same. No. 1,415,127; May 9.
- Stark, Edward, and J. Rehor, assignors to The Theodor Kundtz Company, Cleveland, Ohio. Drophead-sewing-machine cabinet. No. 1,402,805; Jan. 10.
- Stark, John R., assignor, by mesne assignments, to C. R. Clements, trustee, Nashville, Tenn. Adjustable bed bottom. No. 1,402,106; Jan. 3.
- Stark, John R., assignor to Webster Electric Company, Racine, Wis. Ignition magneto. No. 1,407,099; Feb. 21.
- Stark, John R., assignor to Webster Electric Company, Racine, Wis. Armature for magneto machines. No. 1,422,145; July 11.
- Stark, Joseph C. (See Dial, R. E., and Stark.)
- Stark, Max, New York, N. Y. Container of the envelope variety. No. 1,405,636; Feb. 7.
- Stark, Ottmar G. (See Flammang, John, assignor.)
- Stark, Thomas, Chicago, Ill. Dipping machine. No. 1,415,959; May 16.
- Stark Tool Company. (See Haldy, Henri, assignor.)
- Stark, William L., Hastings, Mich. Horn or amplifier for phonographs. No. 1,432,092; Oct. 17.
- Starka, Edward O., Chicago, Ill. Tack-feeding machine. No. 1,408,482; Mar. 7.
- Starka, Edward O., Chicago, Ill. Tack machine. No. 1,416,136; May 16.
- Starke, Eric A., Berkeley, Calif. Recovering gasoline from natural gas. No. 1,439,921; Dec. 26.
- Starker, Charles W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Commutator cylinder. No. 1,428,865; Sept. 12.
- Starker, Charles W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Blower for dynamo-electric machines. No. 1,433,752; Oct. 31.
- Starker, Charles W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Testing apparatus for explosion-proof devices. No. 1,435,264; Nov. 14.
- Starker, Heinrich. (See Kratz, Franz, Starker, and Selling.)
- Starkey, Marshall L. (See Fixter, Edward, assignor.)
- Starkey, Robert P., and G. C. Rathbun, San Francisco, Calif. Pen. No. 1,409,037; Mar. 7.
- Starkey, Rufus K., Hennessey, Okla. Bushing remover. No. 1,428,815; Sept. 12.
- Starkey, William C., assignor to The Ohio Brass Company, Mansfield, Ohio. Suspension device. No. 1,402,023; Jan. 3.
- Starks, Irwin M., Calgary, Alberta, Canada. Double-action moving machine. No. 1,410,617; Mar. 28.
- Starkweather, John, Ottawa, Kan. Anti-skid or mud chain. No. 1,439,922; Dec. 26.
- Starling, John C., Lethbridge, Alberta, Canada. Ditching device. No. 1,416,991; May 23.
- Sarn, Willoughby J., assignor of one-fourth to G. A. Landis, Doylestown, Ohio. Garment fastener. No. 1,427,561; Aug. 29.
- Starnes, Earl C., and E. C. Willis, Alpha, Minn. Grain-handling means. No. 1,405,692; Feb. 7.
- Starnes, Earl C., and E. C. Willis, Alpha, Minn. Grain-spout holder. No. 1,410,132; Mar. 21.
- Starr, Charles E., assignor to Perfecto Gear Differential Co., Bellingham, Wash. Spring hanger for automobiles. No. 1,410,420; Mar. 21.
- Starr, Charles E., Oakland, Calif., assignor to Perfecto Gear Differential Co., Seattle, Wash. Driving mechanism for motor vehicles. (Reissue.) No. 15,424; July 25.
- Starr, Charles E., Sedro Woolley, assignor to Perfecto Gear Differential Co., Bellingham, Wash. Driving mechanism for motor vehicles. (Reissue.) No. 15,490; Nov. 14.
- Starr, Clarence C., San Francisco, Calif. Folding automobile bed. No. 1,415,727; May 9.
- Starr, Edward B., and H. E. Marsh, Lompoc, Calif. Apparatus for sawing natural deposits. No. 1,422,386; July 11.
- Starr, George W., et al. (See Dennis, Howard B., assignor.)
- Starr, Isidore, New York, N. Y. Revolving-picture frame. No. 1,436,544; Nov. 21.
- Starr, John A., Mayville, Wis. Mail-bag mechanism. No. 1,424,858; Aug. 8.

Alphabetical list of patentees—Continued.

- Starr, Morris, Plainfield, N. J. Water-heating attachment. No. 1,406,771; Feb. 14.
- Starr, Raymond F. (See De Cano, Victor M., assignor.)
- Starrels, Joel, Niagara Falls, N. Y. Food product. No. 1,414,675; May 2.
- Starrett, Arthur H., assignor to The L. S. Starrett Company, Athol, Mass. Steel rule with holder. No. 1,438,617; Dec. 12.
- Starrett, Henry F., assignor to Starrett Manufacturing Company, Chicago, Ill. Panel board and panel-board construction. No. 1,414,676; May 2.
- Starrett, Henry F., assignor to Starrett Manufacturing Company, Chicago, Ill. Panel board and panel-board construction. No. 1,414,677; May 2.
- Starrett, L. S., Company, The. (See Amsden, Albert W., assignor.)
- Starrett, L. S., Company, The. (See Reisner, William H., assignor.)
- Starrett, L. S., Company, The. (See Starrett, Arthur H., assignor.)
- Starrett, Laro S., assignor to Athol Machine Company, Athol, Mass. Vise. No. 1,428,996; Sept. 12.
- Starrett Manufacturing Company. (See Starrett, Henry F., assignor.)
- Starrett, Theodore, Jr., Pasadena, Calif. Brake for aeroplanes. No. 1,402,321; Jan. 3.
- Starrett, William. (See Christensen, H., and Starrett.)
- Starting Kompaniet Fähræus, Hult & Co. (See Munters, Anders J. E., assignor.)
- Stasel, Sol, and D. Berwick; said Berwick assignor of one-twentieth of the whole right to N. Berwick and A. E. Berwick, Chicago, Ill. Spark plug. No. 1,413,625; Apr. 25.
- Stasiak, Walenty, Detroit, Mich. Trolley-wheel guard. No. 1,439,648; Dec. 19.
- Stasyszen, Elizabeth. (See Stasyszen, Joe, E., and E.)
- Stasyszen, Emilia. (See Stasyszen, Joe, E., and E.)
- Stasyszen, Joe, E., and E., Bremond, Tex. Combination comb and brush. No. 1,439,923; Dec. 26.
- State Street Trust Company, trustee. (See Robinson, George A., assignor.)
- State, Will C., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Mold. No. 1,438,160; Dec. 5.
- Statham, Albert E., Birmingham, England. Washing machine. No. 1,428,919; Sept. 12.
- Statham, Noel, Bounton, N. J., assignor to West Virginia Pulp and Paper Company, New York, N. Y. Apparatus for dry distillation. No. 1,411,529; Apr. 4.
- Statham, Noel, Hastings-on-Hudson, assignor to Industrial Chemical Company, New York, N. Y. Electrolytic caustic-soda cell. No. 1,411,530; Apr. 4.
- Staton, James B., Nicholasville, Ky. Tube holding and closure means. No. 1,435,750; Nov. 14.
- Staubach, Alois, Crestline, Ohio. Tire shield. No. 1,435,090; Nov. 7.
- Staupe, Edwin G., Minneapolis, Minn. Tractor attachment for automobiles. No. 1,418,842; June 6.
- Staupe, Edwin G., Minneapolis, Minn. Line drive for tractors. No. 1,418,843; June 6.
- Staupe, Edwin G., Minneapolis, Minn. Attachment for paper-slotting machines. No. 1,418,844; June 6.
- Staudenmayer, Charles F., Baltimore, Md. Game. No. 1,410,618; Mar. 28.
- Staudt, James R., Fort Worth, Tex. Adjustable spring clamp. No. 1,406,695; Feb. 14.
- Stauffer, Christian H., Chicago, Ill. Wrench. No. 1,427,918; Sept. 5.
- Stauffer, Clarence L. (See Stauffer, J. Virgil and C. L.)
- Stauffer, J. Virgil and C. L., Wakarusa, Ind. Brooder. No. 1,409,604; Mar. 14.
- Stauffer, John F., and J. F. Rowland, Tutwiler, Miss. Bale tie. No. 1,416,587; May 16.
- Stauss, P., and H. Ruff. (See Nossack, Kurt, assignor.)
- Stavenhagen, Otto, Charlottenburg, near Berlin, Germany. Letter file or registrator. No. 1,414,757; May 2.
- Stavenhagen, Otto, Charlottenburg, near Berlin, Germany. Letter file or register. No. 1,414,758; May 2.
- Staver, W. C. (See Bowman, Charles B., assignor.)
- Stay-Rite Mfg. Co. (See Brooks, Lloyd B., assignor.)
- Sté. The Dunlop Rubber Co. Limited. (See Macbeth, Allan, assignor.)
- Stead, Harold J., Geneva, N. Y. Rim remover. No. 1,405,028; Jan. 31.
- Stead, Harold J., Geneva, N. Y. Bifocal lens. No. 1,407,176; Feb. 21.
- Stead, Harold J., Geneva, N. Y. Bifocal lens and manufacturing the same. No. 1,413,945; Apr. 25.
- Steadworthy, Henry. (See Cooper, F. W., and Steadworthy.)
- Steam Pressing Iron Company. (See Hoffman, Louis, assignor.)
- Stean, Louis H., Shafter, Nev. Railway-dispatch-order support. No. 1,424,529; Aug. 1.
- Stearn, Franklin A., Paterson, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Switch-controlling system. No. 1,413,501; Apr. 18.
- Stearns Conveyor Company, The. (See Philips, William E., assignor.)
- Stearns, Frederick & Company. (See Bye, M., and Carlson, assignors.)
- Stearns, Frederick S., Swampscott, Mass., assignor to F. G. Gale, Waterville, Canada. Electric welding apparatus. No. 1,435,751; Nov. 14.
- Stearns, Frederick S., and C. W. Greene, Lynn, Mass., assignors to Francis G. Gale, Waterville, Canada. Tube-welding machine. No. 1,434,925; Nov. 7.
- Stearns, Jason C., Worcester, Mass. Spotlight support. No. 1,424,687; Aug. 1.
- Stearns, Joseph H., Cassils, Alberta, Canada. Circuit controller for ignition systems. No. 1,404,328; Jan. 24.
- Stearns Roswell H. (See Bethke, J. P., and Stearns.)
- Stearns, Walter A., assignor to American Steel Foundries, Chicago, Ill. Draft mechanism. No. 1,431,191; Oct. 10.
- Stearns-Roger Manufacturing Company. (See Dean, Charles L., assignor.)
- Steatite Electric Products Corporation. (See Finizio, Thomas D., assignor.)
- Stebbins, George H., assignor to Continental Car Company of America, Louisville, Ky. Dump car. No. 1,413,946; Apr. 25.
- Stebler, Albert P., Niagara Falls, N. Y. Can opener. No. 1,405,170; Jan. 31.
- Stebler, Fred. (See Cuttle, Francis, assignor.)
- Stebler, Fred. (See Kuhn, M. A., and Stebler.)
- Stebler, Fred, Riverside, Calif. Apparatus for removing objects from a liquid body. No. 1,430,198; Sept. 26.
- Stebler, Fred, assignor to Stebler-Parker Co., Riverside, Calif. Box conveyor. No. 1,430,766; Oct. 3.
- Stebler-Parker Co. (See Stebler, Fred, assignor.)
- Stebler-Parker-Kuhn Co. (See Kuhn, M. A., and Stebler, assignors.)
- Stecher, Clarence B., and D. Stecher, Truro Township, Franklin County, Ohio. Agricultural tractor. No. 1,431,192; Oct. 10.
- Stecher, David. (See Stecher, C. B., and D.)
- Steck, Robert, Fort Wayne, Ind., assignor to General Electric Company. Electrical system. No. 1,426,923; Aug. 22.
- Steck, Robert, Fort Wayne, Ind., assignor to General Electric Company. Electrical system. No. 1,426,924; Aug. 22.
- Steck, Robert, Fort Wayne, Ind., assignor to General Electric Company. Electrical system. No. 1,426,925; Aug. 22.
- Steckenreiter, Frank J. (See Steckenreiter, John F. and F. J.)
- Steckenreiter, John F. and F. J., Brooklyn, N. Y. Window construction. No. 1,420,457; June 20.
- Stedman, Jacob C. (See Ballard, O. O., and Stedman.)
- Stedman, John F., Tigard, assignor of one-half to D. F. Shope, Portland, Oreg. Stalk-pulling machine. No. 1,410,420; Mar. 21.
- Stedman, William H., Mansfield, assignor to The Merrow Machine Company, Hartford, Conn. Sewing machine. No. 1,418,682; June 6.
- Steedman, George F., St. Louis, assignor to Curtis & Co., Mfg. Co., Wellston, Mo. Reciprocating pump or compressor. No. 1,428,402; Sept. 5.
- Steedman, Henry P. G., London, England, assignor, by mesne assignments, to W. Boyd, New York, N. Y. Reproducing oil paintings. No. 1,416,388; May 16.
- Steel Products Company, The. (See Garman, Harry B., assignor.)
- Steel Products Co. (See Holmsted, F. K., and Mitchell, assignors.)
- Steel Products Co. (See Houghton, J. W., and Harvey, assignors.)
- Steel Spring Piston Ring Co. (See Kuhsiek, A. J. H., and Mayer, assignors.)
- Steel Stamping Company, The. (See Bregman, Harry, assignor.)
- Steel & Tube Company of America. (See Stephens, William, assignor.)
- Steel Wheel Corporation. (See Bellamore, D. H., and Boak, assignors.)
- Steel Works Appliance Company. (See McKean, William L., assignor.)
- Steele, Frederick P., assignor to Midwest Engine Company, Indianapolis, Ind. Traction wheel. No. 1,440,183; Dec. 26.
- Steele, John G., Amarillo, Tex. Feed mixer. No. 1,429,790; Sept. 19.
- Steele, John W., Chicago, Ill. Work holder for saw tables. No. 1,410,134; Mar. 21.
- Steele, John W., Chicago, Ill. Work holder for saw tables. No. 1,410,135; Mar. 21.
- Steele, Joseph P., Chicago, Ill. Shoe sandal sole. No. 1,428,123; Sept. 5.
- Steele, Louis J., Portsmouth, H. Martin and A. E. McCarthy, Southsea, England. Electric welding. No. 1,410,421; Mar. 21.
- Steele, William. (See Schaefer, John, assignor.)
- Steell, Edgar M., assignor to Porcupine Manufacturing Company, Spokane, Wash. Tire boot. No. 1,407,305; Feb. 21.
- Steely, Dale G., Arlington, Mass. Continuous confectionery-making system. No. 1,432,918; Oct. 24.
- Steen, Buford J., Christine, and O. Duda, South Houston, assignors to C. E. Reed, Houston, Tex. Wrench. No. 1,412,143; Apr. 11.
- Steen, Christian J. (See Hofberg, John O., assignor.)
- Steen, John P., and W. W. Oram; said Steen assignor of his interest to M. Began, Ruthton, Minn. Powder puff. No. 1,436,545; Nov. 21.
- Steenburg, Walter C. (See Bonson, Walter, assignor.)

- Steenmeyer, John F., assignor of four-tenths to T. Steensma, Hull, Iowa. Paint composition. No. 1,414,597; May 2.
- Steensma, Theodore. (See Steenmeyer, John F., assignor.)
- Steinstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Shaft coupling. No. 1,408,041; Feb. 28.
- Steinstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine or turbine-driven unit. No. 1,416,760; May 23.
- Steeple, Daniel P., Sumner, Wash. Paring, splitting, and coring knife. No. 1,431,764; Oct. 10.
- Steere, Clarence E., assignor to The Speedumatic Company, Chicago, Ill. Embossing machine. No. 1,407,492; Feb. 21.
- Steerup, Godfrey, Chicago, Ill., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Storage-battery separator. No. 1,403,577; Jan. 17.
- Steerup, Godfrey, Chicago, Ill., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Storage-battery separator. No. 1,416,761; May 23.
- Steele, Jay C. (See Hoff, C. A., and Steese.)
- Steffan, William C., F. B. Ackerman, and W. J. Greiner, Chicago, Ill. Clip. No. 1,421,318; June 27.
- Steffel, Charles, deceased, Granite City, Ill., F. B. Sanders, administrator. Oil burner. No. 1,403,986; Jan. 17.
- Steffen, William A., Crete, Nebr. Door latch. No. 1,405,350; Jan. 31.
- Steffens, John A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Manufacture of esters. No. 1,421,604; July 4.
- Steffens, John A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Manufacturing esters. No. 1,421,605; July 4.
- Steffens, John A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Recovering glycerin. No. 1,423,042; July 18.
- Steffens, John A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Obtaining complete alcoholysis. No. 1,433,308; Oct. 24.
- Steffey, Vernon J. (See Krost, J. F., and Steffey.)
- Stegeman, Ralph H., Anaheim, Calif. Sucker-rod trap. No. 1,409,424; Mar. 14.
- Stegmeier, Charley F., Wauna, Oreg. Railway-mail-transfer apparatus. No. 1,413,297; Apr. 18.
- Stegemeyer, Charles C., Kansas City, Mo. Window-shade attachment. No. 1,436,209; Nov. 21.
- Stegmann, Robert, Hoboken, N. J. Banjo resonator. No. 1,435,027; Nov. 7.
- Stehl, Charles H., Tinley Park, Ill. Power take-off for automobiles. No. 1,424,688; Aug. 1.
- Stehl, Conrad, Oakland, Calif. Pencil. No. 1,416,137; May 16.
- Stehle, William H. (See Hughes, James W., assignor.)
- Stehli, Henry J., Cedar Grove, assignor to Sintering Machinery Corporation, Netcong, N. J. Powdered-coal burner. No. 1,407,600; Feb. 21.
- Stehli, Henry J., Cedar Grove, assignor to Sintering Machinery Corporation, Mount Olive Township, N. J. Means for cooling shafts. No. 1,439,491; Dec. 19.
- Stehman, Paul K., assignor, by mesne assignments, to E. M. Miller, Elizabethtown, Pa. Electric toaster. No. 1,416,992; May 23.
- Stehmann, Harry, Berlin-Hohenshonhausen, Germany. Ash-discharge device for furnaces. No. 1,405,029; Jan. 31.
- Steimmig, Gerhard. (See Schumann, G. C., and Steimmig.)
- Stein, A., & Company. (See Elliott, Alexander D., assignor.)
- Stein, A., & Company. (See Gavitt, Arthur W., assignor.)
- Stein, Charles M., assignor to Societe Anonyme des Appareils de Manutention et Fours Stein, Paris, France. Recuperator. No. 1,404,721; Jan. 24.
- Stein, Emil G., Los Angeles, Calif. Woodworking bit. No. 1,410,534; Mar. 21.
- Stein, Friedrich, Villingen, Germany. Safety device for cinematograph projecting apparatus. No. 1,415,494; May 9.
- Stein, Gordon A., Windsor, Ontario, Canada. Combined ironing board and table. No. 1,402,024; Jan. 3.
- Stein-Hall Manufacturing Company. (See Bright, Robert E., assignor.)
- Stein-Hall Manufacturing Company. (See Schenk, Michel, assignor.)
- Stein, Herman A., Georgetown, Minn. Fanning mill. No. 1,417,469; May 23.
- Stein, Jacob, New York, N. Y. Nether garment. No. 1,439,649; Dec. 19.
- Stein, Karl, Dortmund, Germany. Optician's tongs. No. 1,435,344; Nov. 14.
- Stein, Leo. (See Stein, Michael H. and L.)
- Stein, Lewis E., Washington, D. C. Rim tool. No. 1,404,065; Jan. 17.
- Stein, Michael H. and L., Chicago, Ill. Brief case. No. 1,437,565; Dec. 5.
- Stein, Richard H., Excelsior Springs, Mo. Wrench. No. 1,433,668; Oct. 31.
- Stein, Rose, Los Angeles, Calif. Fruit-juice extractor. No. 1,411,813; Apr. 4.
- Steinau Company, The. (See Steinau, Norvin J., assignor.)
- Steinau, Norvin J. (See Rai, Harry, assignor.)
- Steinau, Norvin J., assignor to The Steinau Company, Louisville, Ky. Advertising display sign. No. 1,436,365; Nov. 21.
- Steinbach, Henry, assignor to J. J. Steinbach, Scranton, Pa. Coal chute. No. 1,416,073; May 16.
- Steinbach, John J. (See Steinbach, Henry, assignor.)
- Steinbach, John J., Scranton, assignor to Wilmot Engineering Company, Hazleton, Pa. Coal jig. No. 1,427,651; Aug. 29.
- Steinbach, Peter J., Chicago, Ill. Seat spring. No. 1,410,039; Mar. 21.
- Steinberg, David. (See Celane, J. L., and Steinberg.)
- Steinberg, Israel, Chicago, Ill. Frame and locking means for bicycles. No. 1,408,652; Mar. 7.
- Steinberg, Milton I. (See Barnett, A., and Steinberg.)
- Steinberg, Sol S. (See Randol, Glenn T., assignor.)
- Steinberger, Harry J., Skiatook, Okla. Working valve for oil wells. No. 1,427,978; Sept. 5.
- Steinberger, Louis. (See Hill, Guy, assignor.)
- Steinberger, Louis, Brooklyn, N. Y. Telephone receiver. No. 1,402,546; Jan. 3.
- Steinberger, Louis, Brooklyn, N. Y. Insulator. No. 1,403,717; Jan. 17.
- Steinberger, Louis, Brooklyn, N. Y. Self-cooling strain insulator. No. 1,406,696; Feb. 14.
- Steinberger, Louis, Brooklyn, N. Y. Self-cooling strain insulator. No. 1,406,697; Feb. 14.
- Steinberger, Louis, Brooklyn, N. Y. Strain insulator. No. 1,406,698; Feb. 14.
- Steinberger, Louis, Brooklyn, N. Y. Telephone transmitter. No. 1,414,442; May 2.
- Steinberger, Louis, Brooklyn, N. Y. Insulator. No. 1,426,516; Aug. 22.
- Steinberger, Louis, Brooklyn, N. Y. Insulator strain member. No. 1,426,788; Aug. 22.
- Steinberger, Louis, Brooklyn, N. Y. Insulator. No. 1,426,789; Aug. 22.
- Steinberger, Louis, and G. Hill, Brooklyn, N. Y. Insulated support for electrical conductors. No. 1,432,800; Oct. 24.
- Steinbuch, Ewald, F. Ackermann, and M. Utzinger, assignors to the Society of Chemical Industry in Basle, Basel, Switzerland. Manufacture of condensation products of the anthraquinone series. No. 1,437,783; Dec. 5.
- Steindorff, Adolf, et al. (See Thiess, K., Maenchen, Steindorff, and Giloy.)
- Steinemann, William A., Los Angeles, Calif. Chewing gum. No. 1,416,242; May 16.
- Steiner, George A., Salt Lake City, Utah, assignor to American Linen Company, Minneapolis, Minn. Towel cabinet. No. 1,414,443; May 2.
- Steiner, George A., assignor, by mesne assignments, to Steiner Sales Company, Salt Lake City, Utah. Roller-towel cabinet. No. 1,426,121; Aug. 15.
- Steiner, Gottlieb, assignor to Firm Scintilla, Solothurn, Switzerland. Distributor-brush holder in magneto-ignition apparatus for internal-combustion engines. No. 1,412,144; Apr. 11.
- Steiner, Gottlieb, assignor to Firm Scintilla, Solothurn, Switzerland. Short-circuit terminal for the magneto-electric ignition apparatus of internal-combustion engines. No. 1,428,666; Sept. 12.
- Steiner, Gottlieb, and J. Bohli, assignors to Firm Scintilla, Solothurn, Switzerland. Wire-clamping terminal for low-voltage installations. No. 1,424,219; Aug. 1.
- Steiner, Joseph C., St. Louis, Mo. Rotatable tool holder for lathes. No. 1,425,804; Aug. 15.
- Steiner Sales Company. (See Steiner, George A., assignor.)
- Steiner, Walter, near Dayton, Ohio. Adjustable spotlight. No. 1,407,897; Feb. 28.
- Steines, Henry, assignor to The United States Bedding Co., St. Paul, Minn. Wireworking machine. No. 1,414,053; Apr. 25.
- Steinhart, Clarence V., Westfield, N. J. Low-freezing-point composition. No. 1,436,828; Nov. 28.
- Steinhart, Hermann, assignor to Firm of Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Electric starting motor. No. 1,438,728; Dec. 12.
- Steinheiser, Frank H., Spokane, Wash. Broom holder. No. 1,423,043; July 18.
- Steinkeller, Thomas J., Eureka, Calif. Bleeder valve for air-brake systems. No. 1,409,605; Mar. 14.
- Steinkraus, Paul, New York, N. Y. Typewriting machine. No. 1,414,229; Apr. 25.
- Steinle, Adolf, assignor to the firm of Carl Zeiss, Jena, Germany. Machine for cutting noncircular glasses. No. 1,418,492; June 6.
- Steinmann, George W. (See Evans, L. M., and Steinmann.)
- Steinmetz Electric Motor Car Corporation. (See Leoni, A. M., and Tischer, assignors.)
- Steinmetz Electric Motor Car Corporation. (See Leoni, Alfonso M., assignor.)
- Steinmetz, Herman, Rochester, N. Y. Sheet-feeding machine. No. 1,420,458; June 20.
- Steinmetz, Joseph A., et al. (See Cook, Lawrence E., assignor.)
- Steinmetz, Joseph A., Philadelphia, Pa. Cap flange for cylinders. No. 1,413,502; Apr. 18.
- Steinmetz, Joseph A., Philadelphia, Pa. Snow disposal. No. 1,418,337; June 6.

Alphabetical list of patentees—Continued.

- Steinmetz, Stefan, Berlin, Germany. Disk mill. No. 1,429,258; Sept. 19.
- Steinmeyer, John W., East Orange, N. J., assignor to American Car and Foundry Company, New York, N. Y. Dome head for tank cars. No. 1,432,216; Oct. 17.
- Steinschneider, Leo, Brunn-Konigsfeld, Czecho-Slovakia. Distilling apparatus for liquids. No. 1,437,566; Dec. 5.
- Steinthal, Martin. (See Becker, August M., assignor.)
- Stekley, Joseph F., Geddes, S. D. Hoe. No. 1,404,666; Jan. 24.
- Stell, Alfred, Steeton, and J. Stell, Keighley, England. Doffing apparatus for spinning, doubling, twisting, and like machines. No. 1,429,375; Sept. 19.
- Stell, John. (See Stell, Alfred and J.)
- Stella, Salvatore, Brooklyn, N. Y. Heel-seat-shaping machine. No. 1,412,375; Apr. 11.
- Stellmann, Louis M., assignor to H. H. Franklin Manufacturing Company, Syracuse, N. Y. Brake drum. No. 1,426,684; Aug. 22.
- Stellmann, Louis M., assignor to H. H. Franklin Mfg. Company, Syracuse, N. Y. Joint for vehicle springs. No. 1,431,991; Oct. 17.
- Steinmach, Joseph M., St. Paul, Minn. Rotary slicer and grater. No. 1,418,178; May 30.
- Steitz, Clarence E., Milwaukee, Wis. Ventilating window lock. No. 1,403,207; Jan. 10.
- Stember, Bernard, New York, N. Y. Lady's pocketbook. No. 1,434,926; Nov. 7.
- Stemco Engineering Company, The. (See Collison, J. G., Wright, Filbert, and Frank, assignors.)
- Stemons, James S., Philadelphia, Pa. Sounding device. No. 1,431,604; Oct. 10.
- Stempel, Herman F., Jr., Fort Madison, Iowa. Mandrel for abrasive and polishing tools. No. 1,417,584; May 30.
- Stenberg, Charles R., Genoa, Nebr. Animal trap. No. 1,434,163; Oct. 31.
- Stendahl, Ludwig K., Fairfield, assignor to The Bryant Electric Company, Bridgeport, Conn. Screw retainer. No. 1,409,606; Mar. 14.
- Stendel, Roy, Magdalena, N. Mex. Guard for motor cycles. No. 1,422,632; July 11.
- Stender, William, Milwaukee, Wis. Bottle-feeding mechanism for annealing ovens. No. 1,419,324; June 13.
- Stengel, Herman, assignor to A. J. Otten, Los Angeles, Calif. Angle-gauge attachment for paper-cutting machines. No. 1,410,519; Mar. 21.
- Stengel, Herman, assignor to A. J. Otten, Los Angeles, Calif. Music holder. No. 1,430,335; Sept. 26.
- Stenger, James B., E. McCaffray, and C. E. Oyler, assignors to Hamilton Cassard & Co., Baltimore, Md. Machine for cleaning or hackling fiber. No. 1,418,493; June 6.
- Stenger, Willebald C., Chicago, Ill. Carving tool. No. 1,409,258; Mar. 14.
- Stenger, Willebald C., Chicago, Ill. Carving machine. No. 1,401,184; Dec. 26.
- Stenmark, Anders O. G., and E. A. Hedberg, assignors to Sandvikens Jernverkes Aktiebolag, Sandviken, Sweden. Saw bow. No. 1,411,590; Apr. 4.
- Stenson, Olaf, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Wire-bending machine. No. 1,426,790; Aug. 22.
- Stenson, Olaf, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Wireworking appliance. No. 1,434,856; Nov. 7.
- Stenvig, Lorents H. (See Williams, F., and Stenvig.)
- Stepanek, Charles. (See Saboun, Martin, assignor.)
- Stephan, Carl, Altona-Hamburg, Germany. Preparation of compounds of isatin- α -aryldes with sulphur dioxide. No. 1,427,863; Sept. 5.
- Stephan, Edith W. (See Trundle, George T., jr., assignor.)
- Stephen, Archibald R., Lodi, Calif. Beater adjustment for almond hullers. No. 1,405,726; Feb. 7.
- Stephen, Archibald R., Lodi, Calif. Hand-picking table. No. 1,414,598; May 2.
- Stephen, Archibald R., Lodi, Calif. Belt control for picking tables. No. 1,430,037; Sept. 26.
- Stephens, A. J., Rubber Co. (See Jordan, Howard W., assignor.)
- Stephens-Adamson Mfg. Co. (See Kendall, Myron A., assignor.)
- Stephens, Alexander R., Higginsville, Mo. Kitchen table. No. 1,436,546; Nov. 21.
- Stephens, Alva L., Portland, Oreg. Loading hopper and chute. No. 1,417,780; May 30.
- Stephens, Benjamin G. C., Auckland, New Zealand. Automatic switch for electric heating appliances. No. 1,422,898; July 18.
- Stephens, Floyd C., assignor to The Wittemann Company, Buffalo, N. Y. Drying apparatus. No. 1,408,483; Mar. 7.
- Stephens, G. B., et al. (See Cudlipp, George R., assignor.)
- Stephens, Harry H., Glen Rock, assignor to Gillespie Motor Company, Paterson, N. J. Centrifugal machine. No. 1,412,145; Apr. 11.
- Stephens, James E., Libby, Mont. Weed destroyer. No. 1,405,030; Jan. 31.
- Stephens, Jay Q., Kansas City, Mo. Combined shipping and dispensing package. No. 1,429,701; Sept. 19.
- Stephens, John D., Pittsburgh, Pa. Means for hanging wall coverings. No. 1,427,333; Aug. 29.
- Stephens, John R., St. Louis, Mo. Car-axle bearing. No. 1,411,127; Mar. 28.
- Stephens, Joseph J., Richmond, Mo., and C. B. Harris, Dallas, Tex. Stilt. No. 1,427,030; Aug. 22.
- Stephens, Phil A., St. Louis, Mo. Shoe attachment. No. 1,413,196; Apr. 18.
- Stephens, Philip A., St. Louis, Mo. Fire escape. No. 1,437,920; Dec. 5.
- Stephens, Richard M., Irving, Tex., assignor of one-twelfth to C. E. Manley and one-twelfth to E. L. Lipp, Los Angeles, Calif. Electric water heater. No. 1,406,100; Feb. 7.
- Stephens, Roscoe W., Los Angeles, Calif. Pump and packing the same. No. 1,407,493; Feb. 21.
- Stephens, Thomas S., Griffin, Ga. Power-driven cultivator. No. 1,416,993; May 23.
- Stephens, Wesley E., Elgin, and J. Hoelzel, Chicago, Ill. Auxiliary air-inlet device for explosion engines. No. 1,407,494; Feb. 21.
- Stephens, William, Ironwood, Mich., assignor to Steel & Tube Company of America, Milwaukee, Wis. Making, reshaping, and sharpening auger drills. No. 1,403,652; Jan. 17.
- Stephenson, Axel G., assignor of one-half to S. Beidelman, Denver, Colo. Locking lever. No. 1,413,805; Apr. 25.
- Stephenson, Charles H., Lynn, Mass. Barrel truck. No. 1,430,698; Oct. 3.
- Stephenson, Elizabeth M., Omaha, Nebr. Button. No. 1,430,601; Oct. 3.
- Stephenson, Frank B., Denver, Colo. Smoking pipe and the like. No. 1,413,298; Apr. 18.
- Stephenson, Frank J., Royersford, Pa. Flask-charging apparatus. No. 1,437,382; Nov. 28.
- Stephenson, George S., Los Angeles, Calif. Farm implement. No. 1,429,376; Sept. 19.
- Stephenson, Henry P. (See Houston, A., and Stephenson.)
- Stephenson, Henson K. (See Henderson, G. H., and Stephenson.)
- Stephenson, James R., assignor of two-thirds to The Monarch Engineering Company, Dayton, Ohio. Change-of-speed device. No. 1,437,120; Nov. 28.
- Stephenson, John G., and F. W. Nuerwell, Tulsa, Okla. Vacuum vibrator. No. 1,420,884; June 27.
- Stephenson, Leigh J., assignor to Woods Motor Vehicle Company, Chicago, Ill. Motor vehicle. No. 1,410,276; Mar. 21.
- Stephenson, Leigh J., assignor to W. T. Fenton, B. V. Becker, L. A. Williams, G. B. Burrage, and L. J. Stephenson, trustees, Chicago, Ill. Motor-control system. No. 1,411,309; Apr. 4.
- Stephenson, Lowell H., Cleveland, Ohio. Camera shutter. No. 1,434,164; Oct. 31.
- Stephenson, Robert F., Augusta, Kans. Spark plug. No. 1,420,159; June 20.
- Stephenson, William P., et al. (See Houston, William, assignor.)
- Stepp, Walter H., Douthat, Okla. Revolving screen. No. 1,427,031; Aug. 22.
- Steps, Robert A., assignor to Sugar Machinery Company, Los Angeles, Calif. Method of and means for washing centrifugals. No. 1,423,583; July 25.
- Sterchele, Felix L., Brooklyn, N. Y. Safety watch pocket. No. 1,413,806; Apr. 25.
- Sterling Bronze Company. (See Roth, Louis, assignor.)
- Sterling Devices Company. (See Meissner, William O., assignor.)
- Sterling, Don L., Dallas, Tex. Bank check and stub. No. 1,423,744; July 25.
- Sterling Engineering Company. (See Hutchinson, Frank L., assignor.)
- Sterling Metal Novelty Mfg. Co. Inc. (See Zakim, David, assignor.)
- Sterling Tool & Manufacturing Company. (See Janeszwski, Kasimir, assignor.)
- Sterling Varnish Company, The. (See Todd, James, assignor.)
- Stern, Albert D., Philadelphia, Pa. Oil-transfer device. No. 1,421,319; June 27.
- Stern, Bernard, New York, N. Y. Automobile headlight. No. 1,429,173; Sept. 12.
- Stern, Carl L., assignor to Linotype and Machinery Limited, London, England. Rotary lithographic printing machine for direct or offset printing. No. 1,423,165; July 18.
- Stern, Ernst, Hanover, Germany. Producing vegetable adhesives. No. 1,412,020; Apr. 4.
- Stern, Frederick, et al. (See Voss, Samuel, assignor.)
- Stern, Isidor, New York, N. Y. Undergarment. No. 1,412,495; Apr. 11.
- Stern, Louie, assignor to Stern & Weisbart, New York, N. Y. Lock. No. 1,426,122; Aug. 15.
- Stern, Louis J., Boston, Mass. Package for snap fasteners. No. 1,422,233; July 11.
- Stern, Milton C., and G. J. Neth, assignors to The Egry Register Company, Dayton, Ohio. Handle stop for autographic registers. No. 1,432,423; Oct. 17.
- Stern, Siegfried, et al. (See Voss, Samuel, assignor.)
- Stern, William F., Detroit, Mich., assignor of one-half to J. R. Little, South Milwaukee, Wis. Steam boiler. No. 1,424,322; Aug. 1.
- Stern & Weisbart. (See Stern, Louie, assignor.)
- Sternau, S., & Co. Inc. (See Ball, Henry P., assignor.)
- Sternau, S., & Company. (See Meikle, George S., assignor.)

- Sternberg, Ernst M., West Allis, Wis. Radius rod for motor vehicles. No. 1,402,806; Jan. 10.
- Sternberg, Ernst M., West Allis, Wis. Pulp-wood filler for vehicle frames. No. 1,405,637; Feb. 7.
- Sternberger, Robert O. (See Allen, A. F., McCoy, and Sternberger.)
- Sterner, Daniel L., Spokane, Wash. Table leveler. No. 1,417,639; May 30.
- Sterner, Daniel L., Spokane, Wash. Adjustable caster. No. 1,417,640; May 30.
- Sterolelectric Company, The. (See Reichart, James H., assignor.)
- Sterrett, Frank O., Rochester, Nev. Counterbalance for the crank shafts of internal-combustion engines. No. 1,422,633; July 11.
- Sterrick, Harrison D., Pittsburgh, Pa. Siphon support. No. 1,439,031; Dec. 19.
- Stetler, Elmer. (See Hunt, T., and Stetler.)
- Stetson, George W., Hingham, Mass. Water-level controller. No. 1,418,845; June 6.
- Steudel, Erich, Chicago, Ill. Foldable carton. No. 1,423,272; July 18.
- Steudel, Erich W. O., Chicago, Ill. Chain link. No. 1,423,273; July 18.
- Steutermaun, Frank M., St. Louis, Mo. Foldable closure for pianos. No. 1,407,007; Feb. 21.
- Stevens, Arthur D., assignor of one-half to N. A. Gilbert, Jacksonville, Fla. Filter for cane sirup. No. 1,404,667; Jan. 24.
- Stevens, Arthur L., Chicago, Ill. Apparatus for and process of purifying gas. No. 1,423,696; July 25.
- Stevens-Aylsworth Company. (See Given, Arthur, assignor.)
- Stevens, Bertram A. (See Corral, H., and Stevens.)
- Stevens, Blamey, Triunfo, Baja California, Mexico. Differential flotation process. No. 1,429,544; Sept. 19.
- Stevens, Burt D., Evanston, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Printing-press frame. No. 1,413,067; Apr. 18.
- Stevens, Burt D., Evanston, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Suction sheet feeder. No. 1,433,423; Oct. 24.
- Stevens, Carlton A., Baltimore, Md. Pile-base expander. No. 1,413,503; Apr. 18.
- Stevens, Charles C., Los Angeles, Calif. Lamp-shade holder. No. 1,404,066; Jan. 17.
- Stevens, Charles W., Detroit, Mich. Building board or slab. No. 1,434,509; Nov. 7.
- Stevens, Charles W., assignor to Stevens Partition and Floor Deadener Co., Chicago, Ill. Ceiling construction. No. 1,415,273; May 9.
- Stevens, Charles W., assignor to Stevens Partition and Floor Deadener Co., Chicago, Ill. Floor construction. No. 1,418,742; June 6.
- Stevens, Clarence S., Sheboygan, Wis., assignor, by mesne assignments, to Carnation Milk Products Company, Chicago, Ill. Powdered-milk compound and making the same. No. 1,432,635; Oct. 17.
- Stevens, Clarence S., Sheboygan, and C. A. Baumann, Jefferson, Wis., assignors, by mesne assignments, to Carnation Milk Products Company, Chicago, Ill. Milk food product and making same. No. 1,432,632; Oct. 17.
- Stevens, Clarence S., Sheboygan, and C. A. Baumann, Jefferson, Wis., assignors, by mesne assignments, to Carnation Milk Products Company, Chicago, Ill. Milk product. No. 1,432,633; Oct. 17.
- Stevens, Clarence S., Sheboygan, and C. A. Baumann, Jefferson, Wis., assignors, by mesne assignments, to Carnation Milk Products Company, Chicago, Ill. Milk food product. No. 1,432,634; Oct. 17.
- Stevens, Donald P., St. Paul, Minn. Smoking pipe. No. 1,439,032; Dec. 19.
- Stevens, Edward. (See Rhee, H. P., Farbro, and Stevens.)
- Stevens, Edward W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Butt for sand rammers. No. 1,415,905; May 16.
- Stevens, Elbridge W., Baltimore, Md., assignor to Chemical Fuel Company of America, Inc., Louisville, Ky. Motor fuel. No. 1,414,759; May 2.
- Stevens, Frank, assignor to C. R. Keegan, Philadelphia, Pa. Sound box. No. 1,419,774; June 13.
- Stevens, Frank J., San Bernardino, Calif. Advertising device. No. 1,433,753; Oct. 31.
- Stevens, Frank J., Rochester, N. Y., assignor, by mesne assignments, to Locke Insulator Corporation, Baltimore, Md. Cementless strain insulator. No. 1,412,759; Apr. 11.
- Stevens, Frederick A., assignor to Stevens and Company, Incorporated, Providence, R. I. Ophthalmic mounting. (Reissue.) No. 1,542,5; July 25.
- Stevens, Frederick R., Schenectady, N. Y. Steam-engine valve-reversing gear. No. 1,431,992; Oct. 17.
- Stevens, Frederick R., Schenectady, N. Y. Steam-engine valve reversing gear. No. 1,436,547; Nov. 21.
- Stevens, George E., assignor of one-half to F. S. Roberts, Laconia, N. H. Pipe cleaner. No. 1,402,107; Jan. 3.
- Stevens, Harold W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controller for electric motors. No. 1,419,178; June 13.
- Stevens, Harry M., Schenectady, N. Y., assignor to General Electric Company. Switch mechanism. No. 1,421,740; July 4.
- Stevens, Henry R., R. L. Rockwell, and E. G. Howe, assignors, by mesne assignments, to R. A. McClure, J. N. Bialock, A. E. Holland, D. O. McClay, and E. G. Howe, trustees, Seattle, Wash. Electrical control system for operating railway track switches, draw spans, turntables, and the like. No. 1,410,844; Mar. 28.
- Stevens, Henry V., Emporia, Kans. Sectional fue expander. No. 1,440,032; Dec. 26.
- Stevens, Horace D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tire-bead-building machine. No. 1,436,612; Nov. 21.
- Stevens, James W., Chattanooga, Tenn. Seed-cooking apparatus. No. 1,411,591; Apr. 4.
- Stevens, Jennie E., Ben Lomond, Calif. Artificial flower. No. 1,418,846; June 6.
- Stevens, Jerry W., assignor of three-eighths to A. Summerfield, Cloquet, Minn. Check valve. No. 1,404,804; Jan. 31.
- Stevens, John A., Lowell, Mass., and A. D. Pratt, Summit, assignors to The Babcock & Wilcox Company, Bayonne, N. J. Dust removing and collecting means. No. 1,440,033; Dec. 26.
- Stevens, John C., assignor, by mesne assignments, to Leupold, Voelpel & Company, Portland, Oreg. Water meter. No. 1,418,032; May 30.
- Stevens, John F., Ottumwa, Iowa. Weed puller. No. 1,407,232; Feb. 21.
- Stevens, Leslie. (See Burch, George B., assignor.)
- Stevens, M. T., & Sons Company. (See Stone, George, assignor.)
- Stevens, Oliver L., Roanoke, Va. Apparatus for labeling, wrapping, or the like. No. 1,410,845; Mar. 28.
- Stevens Partition and Floor Deadener Co. (See Stevens, Charles W., assignor.)
- Stevens, Robert L. (See King, F. B., and Stevens.)
- Stevens, Royale H. (See Avery, D., and Stevens.)
- Stevens, Royale H. (See Avery, D., Stevens, and Williams.)
- Stevens, Sidney, Millinocket, Me. Automatic switch for circuits of internal-combustion engines. No. 1,422,318; July 11.
- Stevens, Truman E., Omaha, assignor to Potash Reduction Company, Holfand, Nebr. Crystallizer. No. 1,409,607; Mar. 14.
- Stevens, W. C., and E. D. Putt, assignors to The Firestone Tire and Rubber Company, Akron, Ohio. Bead-cut-off machine. No. 1,407,712; Feb. 28.
- Stevens, Waldo B., Clintonville, Wis. Expense register. No. 1,409,608; Mar. 14.
- Stevens, William, Boston, Mass. Aeroplane. No. 1,413,553; Apr. 18.
- Stevens, William C., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Method of and means for tensioning various materials. No. 1,410,136; Mar. 21.
- Stevens, William C., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Transmission mechanism. No. 1,410,423; Mar. 21.
- Stevens, William C., Milwaukee, Wis., assignor, by mesne assignments, to Vulcan Motor Devices Company. Gear-shifting mechanism. No. 1,424,784; Aug. 8.
- Stevens, William C., Summit County, assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Tube-wrapping machine. No. 1,435,091; Nov. 7.
- Stevens, William C., Milwaukee, Wis., assignor, by mesne assignments, to Vulcan Motor Devices Company. Gear-shifting mechanism. No. 1,439,924; Dec. 26.
- Stevens, William G., Jr., Willis, Tex. Gear shifter. No. 1,417,213; May 23.
- Stevens, William H., Philadelphia, Pa. Electropneumatic brake. No. 1,402,267; Jan. 3.
- Stevens, William H., Hollidaysburg, Pa. Tool handle. No. 1,418,683; June 6.
- Stevens, William H., Hollidaysburg, Pa. Tool handle. No. 1,422,387; July 11.
- Stevens & Company. (See McGuckin, John J., assignor.)
- Stevens and Company. (See Stevens, Frederick A., assignor.) (Reissue.)
- Stevenson, Albert F. (See Phelps, E. B., Stevenson, and Baker.)
- Stevenson, Albert H., London, England. Paper, cardboard, and like receptacle or container. No. 1,438,274; Dec. 12.
- Stevenson, Cecil V., assignor of five-eighths to T. E. Rofe, Sydney, New South Wales, and three-eighths to S. L. Varvel, Wahroonga, near Sydney, New South Wales, Australia. Fuel vaporizing and economizing apparatus. No. 1,421,606; July 4.
- Stevenson, Donald H., Gardner, Mont. Automatic pistol. No. 1,428,304; Sept. 5.
- Stevenson, Earl P., Cambridge, assignor, by mesne assignments, to General Bond and Share Company, Boston, Mass. Recovering potash. No. 1,415,203; May 9.
- Stevenson, Earl P., Cambridge, assignor, by mesne assignments, to General Bond and Share Company, Boston, Mass. Extracting potash from saline deposits and brines. No. 1,415,204; May 9.
- Stevenson, Earl P., Cambridge, assignor, by mesne assignments, to General Bond and Share Company, Boston, Mass. Extracting borax from saline deposits and brines. No. 1,415,205; May 9.
- Stevenson, Earl P., Cambridge, assignor, by mesne assignments, to General Bond and Share Company, Boston, Mass. Recovering valuable constituents from alkaline brines and deposits. No. 1,415,206; May 9.

Alphabetical list of patentees—Continued.

- Stevenson, Francis E., assignor to The Hydraulic Press Manufacturing Company, Mount Gilead, Ohio. Combined filter and hydraulic press. No. 1,404,490; Jan. 24.
- Stevenson, Francis E., assignor to The Hydraulic Press Manufacturing Company, Mount Gilead, Ohio. Automatic control for hydraulic pumps. No. 1,412,069; Apr. 11.
- Stevenson, Francis E., assignor to The Hydraulic Press Manufacturing Company, Mount Gilead, Ohio. Duplex pumping engine. No. 1,432,636; Oct. 17.
- Stevenson, George M., Baltimore, Md. Body-forming machine for producing sanitary cans. No. 1,436,548; Nov. 21.
- Stevenson, Marcus L. (See Partin, A., and Stevenson.)
- Stevenson, Robert A., Lancaster, Ohio. Toy calculator. No. 1,438,144; Dec. 5.
- Stevenson, Walter N., Evanston, assignor to F. J. Littell Machine Co., Chicago, Ill. Feeding mechanism for work pieces. No. 1,424,785; Aug. 8.
- Stevenson, Wilbur W., and O. H. Bathgate, Wilkinsburg, Pa., assignors to Anthony Company, Long Island City, N. Y. Combination gas and oil burner. No. 1,406,238; Feb. 14.
- Stevenson, Wilbur W., and O. H. Bathgate, Wilkinsburg, Pa., assignors to Anthony Company, Long Island City, N. Y. Combination gas and oil burner. No. 1,435,991; Nov. 21.
- Stever, John M. (See Beagle, William J., assignor.)
- Steward, Charles A., Plano, Ill. Mold for concrete machines. No. 1,419,699; June 13.
- Steward, John W. (See Huser, Adolf T., assignor.)
- Steward, R. A., et al. (See Mixon, Louis L., assignor.)
- Stewart, Abraham L., and R. W. Powell, Quincy, Ill.; said Powell assignor to said Stewart. Tire holder. No. 1,406,296; Feb. 14.
- Stewart, Albert D. (See Cumfer, H. A., and Stewart.)
- Stewart, Alfred C., Los Angeles, Calif. Centrifugal pump. No. 1,406,297; Feb. 14.
- Stewart, Alonzo L., Rushville, Ind. Buoyant soap holder. No. 1,406,699; Feb. 14.
- Stewart, Andrew M., Toledo, Ohio. Jointed rod. No. 1,435,028; Nov. 7.
- Stewart, Andrew M., Toledo, Ohio. Valve and making same. No. 1,435,029; Nov. 7.
- Stewart, Arthur L., and E. Finsen, assignors to Gleason Works, Rochester, N. Y. Gear-cutting machine. No. 1,403,526; Jan. 17.
- Stewart, Arthur L., and E. C. Head, assignors to Gleason Works, Rochester, N. Y. Indexing mechanism. No. 1,404,243; Jan. 24.
- Stewart, Arthur W., and F. J. Bonk, Ripon, Wis. Illuminated sign. No. 1,432,268; Oct. 17.
- Stewart, D. N., and J. L. Williams, Philadelphia, assignors to Academy Club Toy Making, Philadelphia, Pa. Mechanical toy. No. 1,407,825; Feb. 28.
- Stewart, David A. (See Mowbray, James W., assignor.)
- Stewart, David N. (See Cooper, Horace C., assignor.)
- Stewart, Donald H. (See Frederick, C. W., and Stewart.)
- Stewart, Ernest, et al. (See Ziegler, George J., assignor.)
- Stewart, Frank G., assignor of one-half to J. C. Williamson, Wheeling, W. Va. Screen-wire-stretching tool. No. 1,407,898; Feb. 28.
- Stewart, Franklin W., Chicago, Ill. Shaft-connecting swivel and gearing. No. 1,427,652; Aug. 29.
- Stewart, George A. (See Kelley, E. H., and Stewart.)
- Stewart, George W., Loughman, Fla. Tire carrier. No. 1,424,601; Aug. 1.
- Stewart, Gertrude F. (See Williams, George L., assignor.)
- Stewart, Harry F., Springfield, Ill. Cider press. No. 1,419,700; June 13.
- Stewart, Henri M., New York, N. Y. Remittance reminder. No. 1,423,886; July 25.
- Stewart, Henry W., El Paso, Tex. Sun and storm shade for automobiles. No. 1,420,779; June 27.
- Stewart, Hester, and R. Killick, London, England. Cinematograph color projector. No. 1,427,131; Aug. 29.
- Stewart, Hiram J., Canton, Okla. Resilient tire. No. 1,409,795; Mar. 14.
- Stewart, James M., Washington, D. C. Extension sink. No. 1,406,426; Feb. 14.
- Stewart, John V., and F. G. Wertz, Johnstown, Pa. Switch stand. No. 1,404,491; Jan. 24.
- Stewart, Joseph F. (See Daniell, George J., assignor.)
- Stewart Manufacturing Corporation. (See Nelson, L. C., and Polan, assignors.) (Reissue.)
- Stewart, Marshall E., Perth Amboy, N. J., assignor to The Roessler & Hasselbacher Chemical Co., New York, N. Y. Anode. No. 1,435,671; Nov. 14.
- Stewart, Noble R., Santa Maria, Calif. Air intake for combustion engines. No. 1,410,846; Mar. 28.
- Stewart, Otto V., Wilkinsburg, and A. R. Hatzfeld, Turtle Creek, Pa., assignors to Westinghouse Electric & Manufacturing Company. Wood filler. No. 1,438,618; Dec. 12.
- Stewart, Perez M., trustee. (See Fernald, Dana, assignor.)
- Stewart, Richard C., Covington, Ky. Radiator protector. No. 1,435,345; Nov. 14.
- Stewart, Richard F., Briarcliff, N. Y. Truck loading and unloading mechanism. No. 1,423,887; July 25.
- Stewart, Richard F., Briarcliff Manor, N. Y. Butter-print-forming machine. No. 1,425,711; Aug. 15.
- Stewart, Richard F., Briarcliff Manor, N. Y. Butter-handling machine. No. 1,432,919; Oct. 24.
- Stewart, Samuel S. (See Kennedy, George, assignor.)
- Stewart, Thomas G., et al. (See Pollock, John L., assignor.)
- Stewart, Thomas M., Montreal, Quebec, assignor to T. McAvity & Sons Limited, St. John, New Brunswick, Canada. Capacity block for inspirators. No. 1,434,927; Nov. 7.
- Stewart, Thomas W., South Sioux City, Nebr. Hog-scraping knife. No. 1,405,457; Feb. 7.
- Stewart, Thomas W., South Sioux City, Nebr. Safety razor. No. 1,427,864; Sept. 5.
- Stewart, Vernon T. (See Ellis, C., and Stewart.)
- Stewart-Warner Speedometer Corporation. (See Burton, Charles S., assignor.)
- Stewart-Warner Speedometer Corporation. (See Chase, Wilfred O., assignor.)
- Stewart-Warner Speedometer Corporation. (See Duffy, Thomas I., assignor.)
- Stewart-Warner Speedometer Corporation, et al. (See Edwards, William A., assignor.)
- Stewart-Warner Speedometer Corporation. (See Genn, John E., assignor.)
- Stewart-Warner Speedometer Corporation. (See Risinger, Frank V., assignor.)
- Stewart-Warner Speedometer Corporation. (See Wheeler, Leonard H., assignor.)
- Stewart-Warner Speedometer Corp. (See Whittington, Frederick G., assignor.)
- Stewart-Warner Speedometer Corporation. (See Wood, Andrew C., assignor.)
- Stewart, William, Newark, N. J. Lifeboat. No. 1,420,459; June 20.
- Stewart, William C., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-evening machine. No. 1,412,070; Apr. 11.
- Stewart, William C., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Starting and stopping mechanism for presses. No. 1,429,302; Sept. 19.
- Stewart, William C., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Last. No. 1,432,217; Oct. 17.
- Stewart, William F., Quincy, Ill. Churn. No. 1,437,567; Dec. 5.
- Stewart, William J. (See Woolcock, John, assignor.)
- Stewart, William L., Worcester, Mass. Lamp. No. 1,435,427; Nov. 14.
- Stibium Products Company, The. (See Stark, Arthur L., assignor.)
- Stice, Jesse H. (See Davis, J. O., and Stice.)
- Stichler, Charles, assignor to Strause Gas Iron Co., Philadelphia, Pa. Fuel regulator for gas burners. No. 1,407,098; Feb. 21.
- Stickel, Frederick, Chicago, Ill. Combined valve and piston. No. 1,422,234; July 11.
- Stickel, Frederick, Chicago, Ill. Pump. No. 1,425,614; Aug. 15.
- Stickle, Cole, assignor to Open Coil Heater & Purifier Co., Indianapolis, Ind. Steam packing joint. No. 1,431,705; Oct. 10.
- Stickley, John G., et al. (See Monger, Roy S., assignor.)
- Stickley, Leopold, et al. (See Monger, Roy S., assignor.)
- Stickney, Burnham C. (See Wernery, Lester A., assignor.)
- Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,416,520; May 7.
- Stickney, Charles A., St. Paul, Minn. Pencil. No. 1,425,066; Aug. 8.
- Stickney, George F., Albany, N. Y. Siphon spillway. No. 1,405,071; Jan. 31.
- Sticky Fruit Packaging Machine Company. (See Langer, Gotthold L., assignor.)
- Stiefel, John W., St. Paul, Minn. Device for draining water from sand. No. 1,408,653; Mar. 7.
- Stiefel, Ralph C., Ellwood City, Pa. Annealing and other furnace. No. 1,414,489; May 2.
- Stiel, Carl F., St. Paul, Minn. Refrigerator attachment. No. 1,421,607; July 4.
- Stienke, Walter H. (See Jett, George C., assignor.)
- Stiepel, Carl, Berlin, assignor to Persapol Gesellschaft mit beschränkter Haftung, Hannover, Germany. Conversion of fatty acids with several double linkages or of their glycerides into oleic-acidlike fatty acids or their soaps. No. 1,429,114; Sept. 12.
- Stiffier, Columbus. (See Stiffier, Frederick and C.)
- Stiffier, Frederick, Muncie, Ind. Sled. No. 1,404,244; Jan. 24.
- Stiffier, Frederick and C., Muncie, Ind. Cornstalk breaker. No. 1,435,752; Nov. 14.
- Stinagle, William H., Berwick, Pa., assignor to American Car and Foundry Company, St. Louis, Mo. Car end reinforcement. No. 1,432,218; Oct. 17.
- Stiles, John C., St. Louis, Mo. Device for smoothing sheet metal. No. 1,420,064; June 20.
- Stiles, Thomas G., Arlington, N. J. Combined controller and switch lock. No. 1,405,693; Feb. 7.
- Still, Carl. (See Still, Carl, assignor.)
- Still, Carl, assignor to Firm Carl Still, Recklinghausen, Germany. Apparatus for quenching, loading, and screening coke. No. 1,429,791; Sept. 19.
- Still, William J., London, England. Cylinder of internal-combustion engines. No. 1,410,847; Mar. 28.

- Stillman, Chauncey F., North Bergen, N. J. Buffer for amusement cars. No. 1,420,065; June 20.
- Stillman, George J., Jersey City, N. J. Resilient tire. No. 1,437,275; Nov. 28.
- Stiwell, Milton M., New York, N. Y. Stereoscopic attachment for cameras. No. 1,408,654; Mar. 7.
- Stimmel, Frederick C., Chattanooga, Tenn., assignor to The Casey-Hedges Co. Mud ring for boilers and applying same. No. 1,416,762; May 23.
- Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Warp stop motion for looms. No. 1,409,425; Mar. 14.
- Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Warp stop motion for looms. No. 1,409,426; Mar. 14.
- Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Warp stop motion for looms. No. 1,409,427; Mar. 14.
- Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Warp stop motion for looms. No. 1,409,428; Mar. 14.
- Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Automatically-threading loom shuttle. No. 1,413,807; Apr. 25.
- Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Warp stop motion for looms. No. 1,418,494; June 6.
- Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Filling-end-withdrawing means for weft-replenishing looms. No. 1,422,728; July 11.
- Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Filling clamping and parting mechanism for looms. No. 1,427,422; Aug. 29.
- Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Filling clamping and parting mechanism for looms. No. 1,427,423; Aug. 29.
- Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Filling clamping and parting mechanism for looms. No. 1,433,917; Oct. 31.
- Stimpson, Edwin B. Company. (See Rau, Henry V., assignor.)
- Stimpson, Edwin B., Brooklyn, N. Y. Bathing shoe. No. 1,433,309; Oct. 24.
- Stimpson, Walter F., Detroit, Mich. Computing scale. No. 1,403,208; Jan. 10.
- Stimson, Frank G., assignor to Winchester Repeating Arms Company, New Haven, Conn. Battery hand lamp. No. 1,433,570; Oct. 31.
- Stimson, Harry W., West Allis, Wis. Tool. No. 1,418,847; June 6.
- Stimson, Samuel C., Lewisville, assignor of one-half to W. W. Smoak, Winston-Salem, N. C. Hame fastener. No. 1,407,495; Feb. 21.
- Stinchfield, Ray L., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether solvent and composition. No. 1,432,364; Oct. 17.
- Stinchfield, Ray L., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether solvent and composition. No. 1,432,365; Oct. 17.
- Stinson, Floyd, assignor to The Standard Parts Company, Cleveland, Ohio. Cage for roller bearings. No. 1,410,040; Mar. 21.
- Stinson, John N., et al. (See Colgan, John P., assignor.)
- Stinzing, Frank C., New York, N. Y. Alarm. No. 1,428,124; Sept. 5.
- Stinzing, Frank C., Long Island City, N. Y. Alarm whistle means for closure devices. No. 1,428,189; Sept. 5.
- Stipes, R. B., J. D. Goodwin, and H. C. Welch, Flint, Mich. Wheel-holding device. No. 1,411,531; Apr. 4.
- Stippich, Arno C., Hayfield, Minn. Machine for sharpening lawn mowers. No. 1,406,298; Feb. 14.
- Stiriss, Jacob, New York, N. Y. Envelope-closure tool. No. 1,429,792; Sept. 19.
- Stiriss, Jacob, Chicago, Ill. Envelope-clasp punching and affixing machine. No. 1,435,509; Nov. 14.
- Stirk, Greenwood and J. G., Halifax, England. Direct-current motor and generator. No. 1,407,953; Feb. 28.
- Stirk, John G. (See Stirk, Greenwood and J. G., assignors.)
- Stirling, Clarence C., Hartford, Conn. Electric switch. No. 1,421,855; July 4.
- Stirling, Clarence C., Hartford, Conn. Electric switch. No. 1,423,274; July 18.
- Stirling, Robert, jr., East Chicago, Ind. Filling nipple and accessory lock. (Reissue.) No. 15,483; Oct. 31.
- Stitt, Harry E., East Cleveland, Ohio. Building construction. No. 1,433,490; Oct. 24.
- Stobie, John A., Malta Bend, Mo. Material feeding and cutting mechanism for baling presses. No. 1,437,921; Dec. 5.
- Stock, Adam J., Wilkesburg, Pa. Machinists' rule and gauge. No. 1,415,615; May 9.
- Stock, Alfred, Berlin-Dahlem, and H. Goldschmidt, Berlin, Germany. Electrically manufacturing compact metallic beryllium. No. 1,427,919; Sept. 5.
- Stock, Friedrich, Essen-on-the-Ruhr, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Wheeled gun carriage with spread-out trail. No. 1,403,818; Jan. 17.
- Stock, Harry A., assignor of one-half to W. J. Martin, Steelton, Pa. Process of and apparatus for tempering steel rails. No. 1,418,985; June 6.
- Stock, Harry A., assignor of two-thirds to W. J. Martin, Steelton, Pa. Process of and apparatus for tempering metallic tubes, tubular containers, and sheets. No. 1,418,986; June 6.
- Stock, John J., Philadelphia, Pa. Bumper. No. 1,419,775; June 13.
- Stock, John J., Erdenheim, Pa., and J. H. Smoot, Hempstead, Long Island, N. Y.; said Smoot assignor to said Stock. Trolley system. No. 1,404,168; Jan. 17.
- Stock, Julius A., Cicero, assignor to W. C. Ritchie & Company, Chicago, Ill. Box-closing appliance. No. 1,419,590; June 13.
- Stock, Julius A., Cicero, assignor to W. C. Ritchie & Company, Chicago, Ill. Necking machine. No. 1,425,294; Aug. 8.
- Stock, Robert, Sandusky, Ohio. Sectional rim for vehicle wheel tires. No. 1,436,829; Nov. 28.
- Stock, Robert, Sandusky, Ohio. Sectional vehicle wheel rim. No. 1,439,275; Dec. 19.
- Stocke, John F., assignor, by mesne assignments, to The Measuregraph Company, St. Louis, Mo. Machine for measuring textile fabrics. No. 1,437,207; Nov. 28.
- Stöckeman, Ernst. (See Horn, G., and Stöckeman.)
- Stocker, Gerhard, Minneapolis, Minn. Spring shield and oiling device. No. 1,426,613; Aug. 22.
- Stocker, James M., Atlanta, Ga. Sprayer. No. 1,421,038; June 27.
- Stockford, Charles E., Brooklyn, assignor to Standard Oil Company of New York, New York, N. Y. Distilling petroleum under high pressure. No. 1,425,712; Aug. 15.
- Stockham, William G., Piqua, Ohio. Armor for vehicle tires. No. 1,405,351; Jan. 31.
- Stockham, William G., Piqua, Ohio. Tire armor. No. 1,417,359; May 23.
- Stocking, Bert A., Boone, Iowa. Fastener for covers of washing machines. No. 1,435,510; Nov. 14.
- Stockle, Lillian D., Vineland, N. J. Portable standard and canopy support for insect screens, netting, and the like. No. 1,409,609; Mar. 14.
- Stöcklein, Fritz. (See Büchner, K., and Stöcklein.)
- Stockley, James, Halifax, Nova Scotia, Canada. Concrete mixer. No. 1,421,820; June 27.
- Stockly, Walter D., Fairmont, W. Va. Railway cross-tie. No. 1,410,082; Mar. 21.
- Stockman, Carl O., Albany, N. Y. Package tie. No. 1,414,599; May 2.
- Stockstrom, Charles A., assignor to American Stove Company, St. Louis, Mo. Wickless oil burner. No. 1,431,054; Oct. 3.
- Stockton, Richard, et al. (See Boone, Robert G., assignor.)
- Stockton, William S., Roanoke, Va. Milk can. No. 1,409,610; Mar. 14.
- Stockum, Harry J., Delaware Township, Camden County, N. J., and J. H. Van Seiver, assignors to Automobile Appliances Co., Philadelphia, Pa. Signal for automobiles. No. 1,404,905; Jan. 31.
- Stoddard, Charles F., Boston, Mass., assignor to American Piano Company, New York, N. Y. Piano player. No. 1,409,478; Mar. 14.
- Stoddard, Charles F., assignor to American Piano Company, New York, N. Y. Piano player. No. 1,409,479; Mar. 14.
- Stoddard, Charles F., assignor to American Piano Company, New York, N. Y. Automatic musical instrument. No. 1,409,480; Mar. 14.
- Stoddard, Charles F., assignor to American Piano Company, New York, N. Y. Automatic musical instrument. No. 1,409,481; Mar. 14.
- Stoddard, Charles F., assignor to American Piano Company, New York, N. Y. Automatic musical instrument. No. 1,409,482; Mar. 14.
- Stoddard, Charles F., assignor to American Piano Company, New York, N. Y. Expression mechanism for automatic musical instruments. No. 1,409,484; Mar. 14.
- Stoddard, Charles F., assignor to American Piano Company, New York, N. Y. Expression mechanism for automatic musical instruments. No. 1,409,485; Mar. 14.
- Stoddard, Charles F., assignor to American Piano Company, New York, N. Y. Expression mechanism for automatic musical instruments. No. 1,409,486; Mar. 14.
- Stoddard, Charles F., assignor to American Piano Company, New York, N. Y. Expression mechanism for automatic musical instruments. No. 1,409,488; Mar. 14.
- Stoddard, Charles F., assignor to American Piano Company, New York, N. Y. Expression mechanism for automatic musical instruments. No. 1,409,489; Mar. 14.
- Stoddard, Charles F., assignor to American Piano Company, New York, N. Y. Expression mechanism for automatic musical instruments. No. 1,409,490; Mar. 14.
- Stoddard, Charles F., assignor to American Piano Company, New York, N. Y. Expression mechanism for automatic musical instruments. No. 1,409,491; Mar. 14.
- Stoddard, Charles F., assignor to American Piano Company, New York, N. Y. Automatic musical instrument. No. 1,409,492; Mar. 14.
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- Stoddard, Charles F., assignor to American Piano Company, New York, N. Y. Automatic musical instrument. No. 1,409,494; Mar. 14.

Alphabetical list of patentees—Continued.

- Stoddard, Charles F., assignor to American Piano Company, New York, N. Y. Automatic musical instrument. No. 1,409,495; Mar. 14.
- Stoddard, Charles F., assignor to American Piano Company, New York, N. Y. Automatic musical instrument. No. 1,409,496; Mar. 14.
- Stoddard, Charles F., assignor to American Piano Company, New York, N. Y. Machine for use in the manufacture of perforated note sheets. No. 1,432,424; Oct. 17.
- Stoddard, Edgar S., Chicago, and C. S. Miner, Glencoe, assignors to Armour Grain Company, Chicago, Ill. Pre-cooked food. No. 1,402,108; Jan. 3.
- Stoddard, Harry B., Syracuse, N. Y. Collar. No. 1,427,032; Aug. 22.
- Stoddard, Hart A., assignor to Machen Electric Manufacturing Company, Philadelphia, Pa. Electric switch. No. 1,403,718; Jan. 17.
- Stoddard, James T., Portland, Oreg. Refuse burner. No. 1,421,741; July 4.
- Stodder, Edward D., New Rochelle, N. Y. Wave-power motor. No. 1,439,849; Dec. 26.
- Stoeckicht, Wilhelm, Munich, Germany. Gearing. No. 1,416,905; May 23.
- Stoecklin, Charles, Montbeliard, France. Revolution counter. No. 1,440,034; Dec. 26.
- Stoehr, Rolla G. (See Weaver, I. A., and Stoehr.)
- Stoeckle, Erwin R., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Regulating means for alternating-current circuits. No. 1,420,885; June 27.
- Stoeckle, Erwin R., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-control system. No. 1,426,123; Aug. 15.
- Stoelting, Adolph F., assignor to Stoelting Brothers Company, Kiel, Wis. Cheese hoop. No. 1,436,325; Nov. 21.
- Stoelting Brothers Company. (See Stoelting, Adolph F., assignor.)
- Stoen, Ole A., Balsam Lake, Wis. Silo. No. 1,425,346; Aug. 8.
- Stoffel, George A., Huntington, Ind. Dish-drying rack. No. 1,406,773; Feb. 14.
- Stoffel, Robert. (See Smith, F. C., and Stoffel.)
- Stoffer, Frank C., Minneapolis, Minn. Steering mechanism for automobiles. No. 1,408,841; Mar. 7.
- Stoffer, Roy S., assignor to The Timken Roller Bearing Company, Canton, Ohio. Closing in roller bearings. No. 1,436,734; Nov. 28.
- Stoffers, Henry, Newark, N. J. Piston ring. No. 1,418,211; May 30.
- Stoker, Hiram. (See Taylor, J. G., and Stoker.)
- Stokes, Alfred P., St. Heliers, Jersey, Channel Islands. Producing suspensory bandages. No. 1,429,545; Sept. 19.
- Stokes, Alfred P., St. Heliers, Jersey, Channel Islands, assignor to Richard Palmer, New York, N. Y. Inhaling device for use in the treatment of asthmatic, catarrhal, and other affections. No. 1,429,546; Sept. 19.
- Stokes, Charles L., Los Angeles, Calif. Carburetor and fuel feed. No. 1,420,886; June 27.
- Stokes, Charles L., Los Angeles, Calif. Liquid-feed system and method. No. 1,430,038; Sept. 26.
- Stokes, Francis J., Philadelphia, Pa. Extraction of grease from solid material. No. 1,438,194; Dec. 12.
- Stokes, James G., Burgaw, N. C. Extractor appliance for automobile wheels. No. 1,431,338; Oct. 10.
- Stokes, John S. (See Novotny, Emil E., assignor.)
- Stokes, John S., Moorestown, N. J., assignor to Stokes & Smith Company, Summerdale, Philadelphia, Pa. Container structure. No. 1,425,713; Aug. 15.
- Stokes, John S., Moorestown, N. J., assignor to Stokes & Smith Company, Summerdale, Philadelphia, Pa. Container structure. No. 1,425,714; Aug. 15.
- Stokes, Reginald I., Minneapolis, Minn. Bullet-greasing device. No. 1,413,299; Apr. 18.
- Stokes, Robert J., Trenton, assignor to Thermoid Rubber Company, Hamilton Township, N. J. Disk for flexible couplings. No. 1,409,611; Mar. 14.
- Stokes, William E., Rockville Center, assignor to Royal Baking Powder Company, New York, N. Y. Effervescent mixture. No. 1,427,979; Sept. 5.
- Stokes, William E., Rockville Center, assignor to United States Processes, Inc., New York, N. Y. Recovering vanadium. No. 1,428,616; Sept. 12.
- Stokes & Smith Company. (See Fodge, M., and Southwick, assignors.)
- Stokes and Smith Company. (See Morrison, Alfred J., assignor.)
- Stokes & Smith Company. (See Olson, J. A., and Williamson, assignors.)
- Stokes & Smith Company. (See Reifsnnyder, J. D., and Fath, assignors.)
- Stokes & Smith Company. (See Stokes, John S., assignor.)
- Stokes & Smith Company. (See Weightman, W. A., and Nitsch, assignors.)
- Stokke, Fred O., Havre, Mont. Automatic pistol. No. 1,403,133; Jan. 10.
- Stokke, Fred O., Minneapolis, Minn. Automatic loading pistol. No. 1,407,959; Feb. 28.
- Stoll, Arthur, assignor to Chemical Works, formerly Sandoz, Basel, Switzerland. Salts of ergotamine and making same. No. 1,435,187; Nov. 14.
- Stoll, Forest R., Carey, Ohio. Electromagnetic well-drilling machine. No. 1,430,473; Sept. 26.
- Stoll, Frank M., Denver, Colo. Folding camp chair. No. 1,422,319; July 11.
- Stoll, Frank M., Denver, Colo. Portable folding bed. No. 1,422,320; July 11.
- Stoll, Frank M., Denver, Colo. Luggage rack. No. 1,427,173; Aug. 29.
- Stoll, Frank M., Denver, Colo. Automobile body brace. No. 1,427,763; Aug. 29.
- Stoll, Frank M., Denver, Colo. Folding camp stove. No. 1,435,346; Nov. 14.
- Stoll, Irene H., Cleveland, Ohio. Hair dye. No. 1,405,458; Feb. 7.
- Stoll, Ludwig, assignor to Firm "Sembusto" Elastische Radbereifungen Gesellschaft m. b. H., Vienna, Austria. Elastic wheel tire. No. 1,436,366; Nov. 21.
- Stolle, Frank F. (See Stolle, John W., assignor.)
- Stolle, John W., Ashland, Me., assignor of one-third to F. F. Stolle, Redding, Conn. Unbreakable cant hook. No. 1,423,781; July 25.
- Stoller, Hugh M., assignor to Western Electric Company, Incorporated, New York, N. Y. Power system for radio apparatus. No. 1,411,814; Apr. 4.
- Stoller, Hugh M., assignor to Western Electric Company, Incorporated, New York, N. Y. Fault locator for electric cables. No. 1,412,376; Apr. 11.
- Stoller, Hugh M., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical control system. No. 1,426,791; Aug. 22.
- Stollerman, Louis, Brooklyn, N. Y. Article of tableware. No. 1,419,591; June 13.
- Stolley, William A., assignor to James Heddon's Sons, Inc., Dowagiac, Mich. Artificial bait. No. 1,424,385; Aug. 1.
- Stolley, William A., assignor to Jas. Heddon's Sons, Dowagiac, Mich. Fish bait or lure. No. 1,430,336; Sept. 26.
- Stolp, Frank H., Geneva, N. Y. Forming sheet metal. No. 1,408,232; Feb. 28.
- Stolpe, John G., Worcester, Mass. Keyhole guard. No. 1,413,300; Apr. 18.
- Stoltman, Frank, and W. Sumner, Minneapolis, Minn. Refrigerator. No. 1,416,389; May 16.
- Stoltz, John L., Sumner, Ill. Resilient wheel. No. 1,430,474; Sept. 26.
- Stolz, Harry C., Franklin, Pa. Reversible clutch pulley. No. 1,407,899; Feb. 28.
- Stolz, Paul L., assignor to Smith & Sons Manufacturing Company, Kansas City, Mo. Coupling for vehicles. No. 1,435,753; Nov. 14.
- Stolzenbach, Henry B. (See Kidder, A. B., and Miller, assignors.)
- Stoms, Marion W., assignor of one-half to L. W. Morris, Kansas City, Mo. Condenser. No. 1,434,458; Nov. 7.
- Stoms, Marion W., assignor of one-half to L. W. Morris, Kansas City, Mo. Condenser. No. 1,434,459; Nov. 7.
- Stone, Berkley C. (See Diehm, Lucius N., assignor.)
- Stone, Bert E., Plattsburg, N. Y. Hose stand. No. 1,425,067; Aug. 8.
- Stone, Charles W., Tuscaloosa, Ala. Air cooler. No. 1,424,689; Aug. 1.
- Stone, De Forest S., Takoma Park, Md. Jogging mechanism for printing presses. No. 1,408,419; Feb. 28.
- Stone, Elmer. (See Habbert, E. H. A., and Stone.)
- Stone, Elmer B., assignor to The American Hardware Corporation, New Britain, Conn. Lock. No. 1,419,526; June 13.
- Stone, Elmer B., assignor to The American Hardware Corporation, New Britain, Conn. Lock. No. 1,424,046; July 25.
- Stone, Ernest V., Taft, Calif. Apparatus for treating mineral oils. No. 1,403,457; Jan. 10.
- Stone, Ernest V., Taft, Calif. Apparatus for cracking hydrocarbons. No. 1,403,458; Jan. 10.
- Stone, Frank V., et al, trustees. (See Waterhouse, Harold D., assignor.)
- Stone, George, assignor of one-half to M. T. Stevens & Sons Company, North Andover, Mass. Drying machine. No. 1,421,856; July 4.
- Stone, George W., Gillette, Wyo. Transmission gearing. No. 1,418,338; June 6.
- Stone, George W., Moberly, Mo. Bookmarker. No. 1,427,334; Aug. 29.
- Stone, Harris D., assignor to The A. C. Gilbert Company, New Haven, Conn. Manufacture of commutator for electric motors. No. 1,407,776; Feb. 28.
- Stone, Henry A., Cambridge, Mass. Machine for dispensing and moistening gummed tape. No. 1,431,605; Oct. 10.
- Stone, Henry A., Cambridge, Mass. Tape dispensing and moistening machine. No. 1,432,307; Oct. 17.
- Stone, Jay C., Spokane, Wash. Mechanical movement. No. 1,407,233; Feb. 21.
- Stone, Jay C., Spokane, Wash. Mechanical movement. No. 1,423,973; July 25.
- Stone, John L., Leeton, Mo. Tire-chain fastener. No. 1,403,877; Jan. 17.
- Stone, John M., Carrizo Springs, Tex. Pump. No. 1,412,146; Apr. 11.
- Stone, John M., Carrizo Springs, Tex. Pump jack. No. 1,433,571; Oct. 31.
- Stone, Joseph D., Arlington, N. J., assignor to Worthington Pump and Machinery Corporation. Condenser. No. 1,424,786; Aug. 8.

- Stone, Louis W. (See Suydam, Clarence K., assignor.)
 Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,437,825; Dec. 5.
 Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,437,826; Dec. 5.
 Stone, Nathan M., Chicago, Ill. Mountings for mirrors, pictures, signs, or other displayed articles. No. 1,407,177; Feb. 21.
 Stone, Olov E., Council Bluffs, Iowa. Automobile jack. No. 1,435,884; Nov. 14.
 Stone, Richard C., St. Louis, Mo. Grain elevator. No. 1,433,754; Oct. 31.
 Stone, Richard C., St. Louis, Mo. Vehicle dumping apparatus. No. 1,434,030; Oct. 31.
 Stone, Richard C., St. Louis, Mo. Grain bin. No. 1,438,275; Dec. 12.
 Stone Thompson Manufacturing Company. (See Nelson, Arthur W., assignor.)
 Stone, William J. (See McIntyre, Dallas, assignor.)
 Stonebridge, William E., New York, N. Y. Impelling device for games. No. 1,429,656; Sept. 19.
 Stoner, Arthur W., assignor to The Miller Rubber Company, Akron, Ohio. Forming tubes. No. 1,424,386; Aug. 1.
 Stoner, Emma H., Enid, Okla. Carpet beater. No. 1,418,179; May 30.
 Stoner, Henry B. (See Miller, M. L., and Stoner.)
 Stoner, Louis E., assignor to The Jacobs Manufacturing Company, Hartford, Conn. Chuck. No. 1,420,780; June 27.
 Stoner, Paul, assignor to Landis Tool Company, Waynesboro, Pa. Positioning means for grinding wheel carriages. No. 1,416,994; May 23.
 Stoner, Paul, assignor to Landis Tool Company, Waynesboro, Pa. Tarry device. No. 1,419,082; June 6.
 Stoner, Paul, assignor to Landis Tool Company, Waynesboro, Pa. Headstock for lathes. No. 1,428,190; Sept. 5.
 Stoner, Paul, assignor to Landis Tool Company, Waynesboro, Pa. Compensating bearing for wheel spindles. No. 1,433,424; Oct. 24.
 Stoney Foundry Engineering & Equipment Co., The. (See Stoney, John T., assignor.)
 Stoney, George G., Manchester, England. Prevention of reduction of vibration in rotating bodies. No. 1,434,414; Nov. 7.
 Stoney, John T., assignor to The Stoney Foundry Engineering & Equipment Co., Cleveland, Ohio. Clamp means. No. 1,410,619; Mar. 28.
 Stoop, William J., Wheeling, W. Va. Arch for the fire boxes of boilers. No. 1,424,948; Aug. 8.
 Stoop, William J., Wheeling, W. Va. Picking apparatus. No. 1,430,039; Sept. 26.
 Støre, Johan, Christiania, Norway. Constructing subaqueous concrete structures. No. 1,421,857; July 4.
 Storer, Fred L., Kelly, Wyo. Doubletreet. No. 1,408,420; Feb. 28.
 Storer, John W. (See Bethge, F. L., and Storer.)
 Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,403,355; Jan. 10.
 Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,412,545; Apr. 11.
 Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for minimizing commutator flashovers. No. 1,412,546; Apr. 11.
 Storey, Leonidas P., assignor to Waterous Fire Engine Company, St. Paul, Minn. Rotary piston pump. No. 1,407,496; Feb. 21.
 Storey, William H., assignor of one-half to S. C. Matthews and one-half to E. G. Scheuerman and J. M. Fox, Ensley, Ala. Folding toy bed. No. 1,407,234; Feb. 21.
 Stork Motor Company et al. (See Jungerheid, Frederick F., assignor.)
 Stork, William B., Andover, Mass. Automatic steam stop valve. No. 1,424,949; Aug. 8.
 Storie, Ole O., Tacoma, Wash. Transmission clutch and gear. No. 1,416,074; May 16.
 Storie, Ole O., Tacoma, Wash. Automatic stop for gramophones. No. 1,423,044; July 18.
 Storm, James A., St. Louis, Mo. Hat holder. No. 1,419,325; June 13.
 Storm, James A., St. Louis, Mo. Flat-hook fastener. No. 1,419,326; June 13.
 Storms, Jesse B., Lockport, N. Y. Mold for fenceposts. No. 1,439,033; Dec. 19.
 Story, Ward B., Company. (See Story, Ward B., assignor.)
 Story, Ward B., Brooklyn, N. Y., assignor to Ward B. Story Company, Inc., New York, N. Y. Register device for feeders. No. 1,403,653; Jan. 17.
 Story, William M., Wabash, Ind. Wire-fence attachment. No. 1,418,684; June 6.
 Stossel & Cie. (See Kerschbaum, Carl, assignor.)
 Stosser, Emil E., White Plains, N. Y. Combined dustpan and holder for brooms, etc. No. 1,402,547; Jan. 3.
 Stotler, Frank W., Wilkinsburg, Pa., and R. H. Jamison, Berkeley, Calif. Nursery nest. No. 1,413,068; Apr. 18.
 Stott, Frederick R. L., and E. E. Shierk, assignors of one-third to O. W. Haist, Hamilton, Ontario, Canada. Emergency bumper for vehicles. No. 1,412,578; Apr. 11.
 Stott, Philip S. (See Whittaker, J. Bradshaw, and Briggs, assignors.)
 Stott, Vernon H., and L. Schofield, Oldham, England. Water heater. No. 1,415,728; May 9.
 Stottlemeyer, Worth B. (See Pryor, Charles R., assignor.)
 Stouch, Daniel L., York, Pa. Tire. No. 1,422,899; July 18.
 Stout, Dira S. (See White, J. D., and Stout.)
 Stout, Edward E. (See Weydell, Jarl M., assignor.)
 Stout, George W., Merchantville, N. J. Package tie. No. 1,405,459; Feb. 7.
 Stout, George W., Merchantville, N. J. Cord saver and fastener. No. 1,413,626; Apr. 25.
 Stout, George W., Merchantville, N. J. Package tie. No. 1,418,743; June 6.
 Stout, Harry H. (See Butler, P. P., and Stout.)
 Stout, James M., Seattle, Wash. Maturity calendar. No. 1,422,235; July 11.
 Stout, John N., and E. E. Parsonage, Staunton, Ind. Sectional pneumatic tire. No. 1,407,178; Feb. 21.
 Stout, Mary L., Portland, Ore. Stove scraper. No. 1,402,975; Jan. 10.
 Stout, William B., Detroit, Mich. Golf club. No. 1,409,612; Mar. 14.
 Stout, William M., Halstead, Kans. Trowel. No. 1,416,521; May 16.
 Stover, Harry, et al., trustees. (See Neal, Joseph A., assignor.)
 Stover, Jordan H. (See Brown, H. E., and Stover.)
 Stover Manufacturing & Engine Co. (See Hance, Willard A., assignor.)
 Stover, Russell. (See Nelson, Christian K., assignor.)
 Stoverink, John W., et al. (See Henrie, George M., assignor.)
 Stowe, Edwin W., Fair Haven, N. J. Rotary gas engine. No. 1,412,296; Apr. 11.
 Stowe, Harry F., Elmira, N. Y. Chiropractic table. No. 1,426,422; Aug. 22.
 Stowe, Loyd R., Maplewood, Mo. Automatic stoker. No. 1,405,072; Jan. 31.
 Stowell, Augustus H., Spokane, Wash. Flume construction. No. 1,415,274; May 9.
 Stowell, Byron F., assignor to Metal Saw and Machine Co., Inc., Springfield, Mass. Control device for cutting machines. No. 1,414,230; Apr. 25.
 Stowell, Byron F., assignor to Metal Saw and Machine Co., Inc., Springfield, Mass. Operating device for cutting machines. No. 1,421,107; June 27.
 Stowell, Byron F., assignor to Metal Saw and Machine Co., Inc., Springfield, Mass. Driving and control device for band-cutter-cutting machines. No. 1,434,235; Oct. 31.
 Stowell, Elbridge Z., Tufts College, assignor of two-fifths to W. F. McCormack, Malden, Mass. Brick for fireless cookers. No. 1,412,717; Apr. 11.
 Stowell, Lawrence H., Wheatland, N. Dak. Grain holder for binders. No. 1,424,122; July 25.
 Stowers, Eugene S., and J. W. Scott, Bramwell, W. Va. Transmission mechanism. No. 1,403,819; Jan. 17.
 Stoye, Kurt. (See Mutscheller, A., and Stoye.)
 Strachan, James K., Windsor, Ontario, Canada. Grain-grinding machine. No. 1,423,275; July 18.
 Straehle, Monroe P., Pottstown, Pa. Reversible ratchet and socket wrench. No. 1,412,718; Apr. 11.
 Strafford, Walter W., Hampton-on-Thames, England. Artificial-fuel briquettes. No. 1,430,767; Oct. 3.
 Strahl, Beatrice R., Brooklyn, N. Y. Finger-tip-tapering device. No. 1,404,906; Jan. 31.
 Strahan, Ida W., Montclair, N. J. Hair-puff device. No. 1,415,729; May 9.
 Straight, Charles S., Ranger, Tex. Tool. No. 1,414,531; May 2.
 Straight, Charles S., Ranger, Tex. Casing spear. No. 1,427,033; Aug. 22.
 Straight, Frank H. (See Straight, Fred M., assignor.)
 Straight, Fred M., assignor of one-half to F. H. Straight, Bristol, R. I. Cymbal holder. No. 1,416,522; May 16.
 Straight, Halver R. (See Hague, Alfred G., assignor.)
 Straight, Halver R. (See Straight, Merton T., assignor.)
 Straight, Halver R., Adel, Iowa. Grooved end hollow building tile. No. 1,411,532; Apr. 4.
 Straight, Halver R., Adel, Iowa. Machine for corrugating plastic blocks. No. 1,411,533; Apr. 4.
 Straight, Halver R., Adel, Iowa. Furnace for brick and tile kilns. No. 1,411,534; Apr. 4.
 Straight, Halver R., Adel, Iowa. Building tile. No. 1,414,444; May 2.
 Straight, Halver R., Adel, Iowa. Mining machine. No. 1,425,913; Aug. 15.
 Straight, Halver R., Adel, Iowa. Blade for pug mills. No. 1,438,276; Dec. 12.
 Straight Line Regulator Corporation. (See Asbury, William, assignor.)
 Straight, Merton T., Adel, Iowa. Phonograph needle or stylus and making the same. No. 1,409,498; Mar. 14.
 Straight, Merton T., assignor to H. R. Straight, Adel, Iowa. Machine for corrugating plastic blocks. No. 1,411,535; Apr. 4.
 Straitt, Hosea H., Overland, Mo. Paper-feed guide for platen presses. No. 1,407,100; Feb. 21.
 Straka, Jaroslav, Chicago, Ill. Detachable clip for measuring devices. No. 1,406,774; Feb. 14.

Alphabetical list of patentees—Continued.

- Straka, John, assignor of one-half to J. R. Lewis, Chicago, Ill. Fountain-pen stand. No. 1,408,545; Mar. 7.
- Straka, John, assignor of one-half to J. R. Lewis, Chicago, Ill. Magazine pencil. No. 1,421,742; July 4.
- Straka, Paul. (See Straka, Tony and P.)
- Straka, Tony and P., Fairchance, Pa. Clothes wringer. No. 1,418,890; June 6.
- Straker, Iven F. (See Freeman, P., and Straker.)
- Straley, Daniel B. (See Owen, R. P., and Straley.)
- Stralucke, Carl H., New York, N. Y. Shuttle-throwing mechanism. No. 1,419,776; June 13.
- Stramaglia, Nicola, Chicago, Ill. Spotlight and operating mechanism. No. 1,433,425; Oct. 24.
- Stramitz, Roman. (See Spurk, P. N., and Stramitz.)
- Stranahan, James F., assignor of one-half to J. F. Mara, Pittsburg, Calif. Resilient tire. No. 1,431,055; Oct. 3.
- Stranahan, Miles T., Elyria, Ohio. Lifting jack. No. 1,424,748; Aug. 1.
- Strand, Charles, Burkburnett, Tex. Fishing tool. No. 1,418,212; May 30.
- Strand, Charles A., Chicago, Ill. Blade-sharpening mechanism. No. 1,427,130; Aug. 29.
- Strand, David, assignor, by mesne assignments, to R. W. Glasner, Chicago, Ill. Feed-roll gearing for interlacing machines. No. 1,404,245; Jan. 24.
- Stranders, Walter, London, England. Educational apparatus. No. 1,428,456; Sept. 5.
- Strang, Robert H. W., Bridgeport, Conn. Instrument for holding appliances while heated. No. 1,415,414; May 9.
- Strange, James A., Ellensburg, Wash. Shoemaker's jack. No. 1,405,875; Feb. 7.
- Strange, John, Pail Company. (See Strange, Paul, assignor.)
- Strange, Paul, Neenah, Wis., assignor to John Strange Pail Company, Menasha, Wis. Pail. No. 1,433,918; Oct. 31.
- Stranzky, Emil, Dover, Ohio. Electrically-heated flatiron. No. 1,417,421; May 23.
- Stranzky, Emil, assignor to The Dover Manufacturing Company, Dover, Ohio. Electrical connector. No. 1,423,045; July 18.
- Strasberger, Max J., Chicago, Ill. Signal lamp. No. 1,435,754; Nov. 14.
- Strasburg, Samuel S., St. Marys, Ohio. Drier. No. 1,405,460; Feb. 7.
- Strasser, Robert, New York, N. Y. Fountain pen. No. 1,409,613; Mar. 14.
- Strassweg, Frederick A., Evansville, Ind. Name plate. No. 1,439,034; Dec. 19.
- Strater, Theodore G., West Tisbury, Mass. Faucet. No. 1,402,354; Jan. 3.
- Stratford, Charles W., San Francisco, Calif. Preparing clay for bleaching petroleum products. No. 1,408,659; Mar. 7.
- Stratford, Charles W., San Francisco, Calif. Recovering clay used in bleaching petroleum products. No. 1,408,656; Mar. 7.
- Stratford, Frank B., Jersey City, N. J. Apparatus for treating fibrous material. No. 1,436,735; Nov. 28.
- Stratford, Herbert R., Cleveland, Ohio, assignor, by mesne assignments, to Paramount Rubber Consolidated, Inc., Philadelphia, Pa. Method of and apparatus for making hollow rubber articles. No. 1,430,699; Oct. 3.
- Strating, Charles E., Chicago, Ill. Window weight. No. 1,428,191; Sept. 5.
- Stratton, Fenton F., East Croydon, England. Carburetor for internal-combustion engines. No. 1,403,987; Jan. 17.
- Stratton, Fenton F., East Croydon, England. Carburetor for internal-combustion engines. No. 1,426,685; Aug. 22.
- Stratton, Harry F., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Overload apparatus for alternating-current motors. No. 1,431,135; Oct. 3.
- Stratton, Harry F., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Supported laminations for electric apparatus and making the same. No. 1,432,637; Oct. 17.
- Stratton, Wilbert E. (See Zieschang, Richard, assignor.)
- Stratton, William B., Detroit, Mich. Lavatory fixture. No. 1,417,583; May 30.
- Straub, Albert A., Pittsburgh, Pa., and E. B. Priebe, New York, N. Y., said Straub assignor to said Priebe. Gauge. No. 1,402,187; Jan. 3.
- Straub, Fritz. (See Grimmer, J., and Straub.)
- Straub, Hans, Chicago, Ill. Vehicle thief detector. No. 1,437,619; Dec. 5.
- Straub-Keller, Eduard. (See Nettgens, Heinrich, assignor.)
- Straubel, Louis A., Green Bay, Wis. Paper-folding machine. No. 1,423,276; July 18.
- Straus Co., The. (See Rothschild, Adolph, assignor.)
- Strausbaugh, Jeremiah W., Tiffin, Ohio. Animal trap. No. 1,439,200; Dec. 19.
- Strause Gas Iron Co. (See Stichler, Charles, assignor.)
- Strause, Leon L. (See Harrison, Charles L., assignor.)
- Strauss, Benno, Bredeneu, Germany. Heat treatment of nickel-chrome steel. No. 1,404,907; Jan. 31.
- Strauss, Benno, Bredeneu, Germany. Treating steel alloys which contain chromium and nickel. No. 1,404,908; Jan. 31.
- Strauss, Carol L., Millinocket, Me. Safety pin. No. 1,402,109; Jan. 3.
- Strauss, Edward E. (See Strauss, Walter C. and E. E.)
- Strauss, Edwin T., La Crosse, Wis. Center-finding instrument. No. 1,429,793; Sept. 19.
- Strauss, Ferdinand, Inc. (See Irenius, Joseph V., assignor.)
- Strauss, Joseph B., Chicago, Ill. Amusement device. No. 1,420,887; June 27.
- Strauss, Joseph B., Chicago, Ill. Elevated railway. No. 1,425,805; Aug. 15.
- Strauss, Joseph B., Chicago, Ill. Elevated railway. No. 1,427,920; Sept. 5.
- Strauss, Mortimer L., Cleveland, Ohio. Coating or sealing composition. No. 1,423,821; July 25.
- Strauss, Walter C. and E. E., Chicago, Ill. Means for preventing unauthorized viewing of a surface. No. 1,435,992; Nov. 21.
- Straw, Artemes D., Wauseon, assignor, by mesne assignments, to The Hubert A. Myers Company, Toledo, Ohio. Coating molds. No. 1,420,888; June 27.
- Straw, U. D., Goshen, Ind. Electric heater. No. 1,420,160; June 20.
- Strawn, Enoch L., Omaha, Nebr. Lawn mower. No. 1,439,583; Dec. 19.
- Strawn, Ervin E., assignor to The Omnigraph Company, Des Moines, Iowa. Process and machine for printing complete form letters. No. 1,411,592; Apr. 4.
- Strawn, Ervin E., assignor to The Omnigraph Company, Des Moines, Iowa. Combination printing, addressing, scoring, and cutting machine. No. 1,414,054; Apr. 25.
- Strawn, Ervin E., assignor to The Omnigraph Company, Des Moines, Iowa. Address-printing machine. No. 1,414,103; Apr. 25.
- Strawn, Ervin E., assignor to The Omnigraph Company, Des Moines, Iowa. Blanket stretcher for printing rollers. No. 1,414,104; Apr. 25.
- Strawn, Marion L., Des Moines, Iowa. Moisture-supplying device for lithographic-printing machines. No. 1,438,408; Dec. 12.
- Strawn, Orval R., Columbus, Ohio. Vehicle signal device. No. 1,426,017; Aug. 15.
- Strayer, Catherine. (See Stroh, W. Y., and Thompson, assignors.)
- Strayer, Charles C., Johnstown, Pa. Switch. No. 1,408,484; Mar. 7.
- Strayer, Daniel H., Los Angeles, Calif. Combined door check and buffer. No. 1,415,493; May 9.
- Strayer, Nora C. (See Keachler, Lewis, assignor.)
- Strebel, Louis, New York, N. Y. Explosive engine. No. 1,411,536; Apr. 4.
- Street, Beaumont T., Springfield, Mo. Heating stove. No. 1,439,925; Dec. 26.
- Street, Fred, Philadelphia, Pa. Snap catch. No. 1,414,838; May 2.
- Street, Harry N. (See Blair, Thomas, assignor.)
- Street, Wade L., assignor to The T. A. Snider Preserve Company, Chicago, Ill. Vegetable washing machine. No. 1,428,125; Sept. 5.
- Strehl, John M., Seattle, Wash. Grinding machine. No. 1,437,620; Dec. 5.
- Streibel, Ludwig, assignor of two-thirds to A. Ehresmann and O. Maier, Karlsruhe, Germany. Punching machine. No. 1,417,867; May 30.
- Streibel, Ludwig, assignor of one-half to A. Ehresmann, Karlsruhe, Germany. Apparatus for channeling sole blanks. No. 1,420,161; June 20.
- Streich, Paul B., assignor to Union Machinery Company, Joliet, Ill. Dumping mechanism for conveyers. No. 1,427,653; Aug. 29.
- Streich, William F., Philadelphia, Pa. Support and brace for table legs. No. 1,439,453; Dec. 19.
- Streit, Melville V., Medford, Mass. Blowtorch furnace. No. 1,432,801; Oct. 24.
- Streit, Peter L., Grand View, N. Y. Combination handle and crank. No. 1,423,469; July 18.
- Streitelmeier, John E. (See Brown, Robert G., assignor.)
- Stretfeld, Frances L., Atlantic City, N. J. Securing attaching strings to wearing apparel. No. 1,405,171; Jan. 31.
- Stresau, Richard, Quogue, N. Y. Speed-changing device. No. 1,426,926; Aug. 22.
- Stresau, Richard, Wauwatosa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Apparatus for electric welding. No. 1,407,900; Feb. 28.
- Stricker, Clarence W. (See Campbell, W. B., and Stricker.)
- Stricker, William, Kansas City, Mo., assignor, by mesne assignments, to Perfection Dehydrator Company. Dehydrating apparatus. No. 1,435,755; Nov. 14.
- Strickland, Bennett E., Chickasha, Okla. Valve. No. 1,413,504; Apr. 18.
- Strickland, Charles V., assignor to R. J. Reynolds Tobacco Company, Winston-Salem, N. C. Can-bottoming machine. No. 1,413,240; Apr. 18.
- Strickland, Charles V., assignor to R. J. Reynolds Tobacco Company, Winston-Salem, N. C. Pintle-inserting machine. No. 1,413,627; Apr. 25.
- Strickland, Dewitt W., Tylertown, Miss. Cultivator. No. 1,427,424; Aug. 29.
- Strickland, Erve C. (See Thuesen, G. C., and Strickland.)
- Strickland, R. E. M. (See Skeels, Lee H., assignor.)
- Strickland, Richard B., Waco, Tex. Automatic mechanical cotton tramper. No. 1,433,572; Oct. 31.

- Strickland, William R., East Cleveland, assignor to The Peerless Motor Car Company, Cleveland, Ohio. Combined spring horn and bumper support. No. 1,421,608; July 4.
- Strid, Sven J., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand brake for railway cars. No. 1,403,209; Jan. 10.
- Strid, Sven J., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Door fastener. No. 1,439,385; Dec. 19.
- Strieff, George F., Watertown, N. Y. Fountain sponge. No. 1,410,620; Mar. 28.
- Strier, Charles, assignor to J. Strier, Brooklyn, N. Y. Hair comb. No. 1,429,794; Sept. 19.
- Strier, Jennie. (See Strier, Charles, assignor.)
- Strietelmeier, John E. (See Brown, R. G., and Strietelmeier.)
- Stringer, Allen C., St. Louis, Mo. Automatic belt tightener. No. 1,432,129; Oct. 17.
- Strite, George T. (See Foote, J. B., and Strite.)
- Strite, George T., assignor of one-half to H. W. Bolens, Minneapolis, Minn., and one-fourth to C. J. Travers, Port Washington, Wis. Fan governor for thrashing machines. No. 1,406,427; Feb. 14.
- Ströbeck, Frans T., Beachmont, Mass., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Binding attachment for sewing machines. No. 1,402,977; Jan. 10.
- Strobel, Jacob, New York, N. Y. Life preserver. No. 1,416,523; May 16.
- Strobel, Joseph, Tulsa, Okla. Temper screw. No. 1,417,698; May 30.
- Strobhart, H. E., Chicago, Ill. Pie pan. No. 1,411,128; Mar. 28.
- Strobino, Gaston, Paterson, N. J. Phonograph machine. No. 1,430,700; Oct. 3.
- Strobot, John J., assignor to Fidelity Brass Manufacturing Company, Chicago, Ill. Acetylene torch. No. 1,424,189; Aug. 1.
- Strochalen, Paul K., Oakland, Calif. Door opening and closing apparatus. No. 1,416,138; May 16.
- Stroh, William Y., Pittsburgh, and J. Thompson, Oakmont, assignors to C. Strayer, Pittsburgh, Pa. Treating castings. No. 1,439,454; Dec. 19.
- Strobbach, Henry J., New York, N. Y. Coffee urn. No. 1,423,547; July 25.
- Strohl, Carl H., assignor of one-half to H. C. Rice, Fremont, Ohio. Tappet-valve silencer. No. 1,410,771; Mar. 28.
- Strom, Eugene N., and A. E. Blomstrand, assignors to Pettibone Mulliken Company, Chicago, Ill. Railway crossing. No. 1,406,909; Feb. 14.
- Strom, Gustav, assignor of thirty one-hundredths to P. D. Johnston, Pontiac, Mich. Railway tie. No. 1,427,980; Sept. 5.
- Strom, Gustav A., Minneapolis, Minn. Motor governor. No. 1,429,795; Sept. 19.
- Strom, Matt, and E. Hoglund, Duluth, Minn. Soil-cultivating tool. No. 1,416,906; May 23.
- Strom, Walter H., Oak Park, Ill. Clutch-throw-out bearing mounting. No. 1,402,458; Jan. 8.
- Stromberg-Carlson Telephone Manufacturing Company. (See Brown, Alexander T., assignor.) (Reissue.)
- Stromberg-Carlson Telephone Manufacturing Company, The. (See Carlson, Gustaf, assignor.)
- Stromberg-Carlson Telephone Manufacturing Company, The. (See Haubrich, Alexander M., assignor.)
- Stromberg-Carlson Telephone Manufacturing Company. (See Levis, John H., jr., assignor.)
- Stromberg-Carlson Telephone Manufacturing Company. (See Manson, Ray H., assignor.)
- Stromberg-Carlson Telephone Manufacturing Company, The. (See Powell, Winfred T., assignor.)
- Stromberg-Carlson Telephone Manufacturing Company. (See Slough, Frank M., assignor.)
- Stromberg, Emil A., and K. E. Boberg, Chicago, Ill. Automatic curtain roller. No. 1,437,479; Dec. 5.
- Stromberg Motor Devices Company. (See Cole, D., and Gustafson.)
- Stromberg Motor Devices Company. (See Edwards, Francis E., assignor.)
- Stromberg Motor Devices Company. (See Mock, Frank C., assignor.)
- Stromberg Motor Devices Company. (See Welch, Horace H., assignor.)
- Stromberg, William E., and E. H. Schmicking, New York, N. Y.: said Stromberg assignor to said Schmicking. Print-washing machine. No. 1,434,071; Oct. 31.
- Strombom, Johan F., Chicago, Ill. Vehicle signaling device. No. 1,419,777; June 13.
- Stromgren, Charles D., Los Angeles, Calif. Valve-stem-fitting device. No. 1,435,428; Nov. 14.
- Strong, Arthur P., Chicago, Ill., assignor to Green Engineering Company, East Chicago, Ind. Air nozzle. No. 1,412,977; Apr. 18.
- Strong, Arthur P., Chicago, Ill., assignor to Green Engineering Company, East Chicago, Ind. Ash hopper. No. 1,422,900; July 18.
- Strong, Charles H., London, England. Change-speed and clutching mechanism. No. 1,428,346; Sept. 5.
- Strong, Edward P. (See Davies, D. B., and Strong.)
- Strong, Elmer, and H. Tarbuton, assignors of one-fourth to F. L. Beach and one-fourth to J. C. Carter, Mansfield, Mo. Emergency axle. No. 1,411,981; Apr. 4.
- Strong, Ernest G., assignor to The Timken Roller Bearing Company, Canton, Ohio. Tool holder. No. 1,436,210; Nov. 21.
- Strong, George, London, England, assignor, by mesne assignments, to Joseph Dixon Crucible Company, Jersey City, N. J. Showcase. No. 1,425,347; Aug. 8.
- Strong, Gertrude G., et al. (See Gunderson, Julia A., assignor.)
- Strong, Harold C., Clearwater, Calif. Brake for auto vehicles. No. 1,433,491; Oct. 24.
- Strong, Henry M. (See Arnold, Ernest H., assignor.)
- Strong, Kennard, and Nutt Company, The. (See Nutt, Buell W., assignor.)
- Strong, Roswell B., Coldwater, Mich. Heater for automobile radiators. No. 1,436,060; Nov. 21.
- Strong, William E. S., New York, N. Y., assignor, by mesne assignments, to Thermal Appliance Company, Inc., Elizabethport, N. J. Water heater. No. 1,410,848; Mar. 28.
- Strong, William J. H., Chicago, Ill. Heat motor. No. 1,420,672; June 27.
- Stronghart Company. (See Kusel, Isidor J., assignor.)
- Strongman, Herman L., Brooklyn, assignor to Loeb-Strongson Corporation, New York, N. Y. Pouring spout. No. 1,405,638; Feb. 7.
- Stroppel, Rudolf. (See Nemecek, M. V., and Stroppel.)
- Strosacker, Charles J., assignor to The Dow Chemical Company, Midland, Mich. Making acetic anhydride. No. 1,403,920; Jan. 17.
- Strosacker, Charles J., and H. J. Rupright, assignors to The Dow Chemical Company, Midland, Mich. Making brominated indigos. No. 1,431,606; Oct. 10.
- Strosnider, Fred, Yerington, Nev. Gate latch. No. 1,411,129; Mar. 28.
- Stroud, Edmund H., Chicago, Ill. Dust collector. No. 1,416,995; May 23.
- Stroud, Lamont H., Sheridan, Wyo. Nondisplaceable grease cup and bushing anchor. No. 1,429,115; Sept. 12.
- Stroud, William. (See Barr, A., and Stroud.)
- Stroupe, Albert H., Sigma, Mich. Control lever. No. 1,431,056; Oct. 3.
- Strout, Elmer J., Utica, Ill. Colter. No. 1,425,422; Aug. 8.
- Strowd, William F. (See Reid, Daniel S., assignor.)
- Strube, Christian, Erlenbach, Switzerland. Paper fastener. No. 1,438,619; Dec. 12.
- Strubing, Frank W., Hartford, Wis. Cigar lighter. No. 1,417,422; May 23.
- Struble, James F., Hutchinson, Kans. Windmill gearing. No. 1,440,035; Dec. 26.
- Struck, Ludwig T., Washington, D. C. Trousers-supporting device. No. 1,427,335; Aug. 29.
- Strunk, Harry E., Ontario, Calif., assignor, by mesne assignments, to Majestic Electric Development Company. Heater. No. 1,431,993; Oct. 17.
- Struthers Absorber Company. (See Struthers, William G., assignor.)
- Struthers, William G., assignor to Struthers Absorber Company, Seattle, Wash. Shock absorber. No. 1,437,868; Dec. 5.
- Struve, Edward W. (See Jones, H. A., and Struve.)
- Stryker, George B., and F. A. Mantel, assignors to Stryker Kot-N-Wood Products Company, Memphis, Tenn. Lumber substitute. No. 1,436,061; Nov. 21.
- Stryker Kot-N-Wood Products Company. (See Stryker, G. B., and Mantel, assignors.)
- Stryker, Walter W., deceased, by E. T. Jones, administrator, Dayton, Ohio. Railway spike. No. 1,425,715; Aug. 15.
- Stuard, James A. (See Dexter, Fred A. and B. P., and Stuard.)
- Stuart, Alexander T., Toronto, Ontario, Canada, assignor to Stuart Electrolytic Cells, Incorporated, Wilmington, Del. Electrode and electrolytic battery. No. 1,406,239; Feb. 14.
- Stuart, Alexander T., and G. N. Middleton, assignors to The Toronto Power Company Limited, Toronto, Ontario, Canada. Apparatus for use in connection with chemical and physical operations. No. 1,417,585; May 30.
- Stuart, Charles A. (See Stuart, George E. and C. A.)
- Stuart, Edwards B., Chicago, Ill. Collecting and trucking garbage. No. 1,405,952; Feb. 7.
- Stuart, Edwin T., assignor of one-half to C. R. Cahn, West Fork, Ark. Vermin-destroying nest egg. No. 1,425,848; Aug. 8.
- Stuart Electrolytic Cells, Incorporated. (See Stuart, Alexander T., assignor.)
- Stuart, Ethelbert B., Buffalo, N. Y., assignor to The Beaver Company. Rubbing machine. No. 1,405,639; Feb. 7.
- Stuart, Francis L., New York, N. Y. Conveyor. No. 1,403,921; Jan. 17.
- Stuart, Francis L., Essex Falls, N. J. Terminal. No. 1,410,621; Mar. 28.
- Stuart, Francis L., New York, N. Y. Conveyor. No. 1,422,492; July 11.
- Stuart, Francis L., New York, N. Y. System of conveying and delivering material to carriers. No. 1,422,493; July 11.
- Stuart, Frank J., St. Louis, Mo. Breast former, confiner, supporter, and reducer. No. 1,433,573; Oct. 31.
- Stuart, George E. and C. A., Oregon City, Ore. Pneumatic tire. No. 1,423,277; July 18.

Alphabetical list of patentees—Continued.

- Stuart, James. (See Bach, E., and Stuart.)
 Stuart, Joseph, Pittsburgh, Pa. Watchman's registering apparatus. No. 1,405,727; Feb. 7.
 Stuart, Kenneth E., Merion, Pa. Photography in colors. No. 1,439,035; Dec. 19.
 Stuart, Kenneth E., Niagara Falls, assignor to Hooker Electrochemical Company, New York, N. Y. Apparatus for electrolyzing solutions. No. 1,423,584; July 25.
 Stuart, Robert F., Kokomo, Ind. Package-marking machine. No. 1,417,781; May 30.
 Stuart, William A., Tacoma, Wash. Water-elevating device. No. 1,416,075; May 16.
 Stuart, William E., San Francisco, Calif. Gas valve for hot-water heaters. No. 1,430,701; Oct. 3.
 Stuarts, Arthur, Pleasantville, N. Y. Wrench. No. 1,414,839; May 2.
 Stubbins, Clinton H., Aspinwall, Pa. Taking dental impressions. No. 1,409,038; Mar. 7.
 Stubbs, Charles A. (See Haskett, J. C., and Stubbs.)
 Stubbs, David R., Cuero, Tex. Boll-weevil collector. No. 1,413,808; Apr. 25.
 Stubbs, Ernest A., Smithers, British Columbia, Canada. Evaporative refrigerator. No. 1,403,134; Jan. 10.
 Stuber, Adolph, Rochester, N. Y. Registering mechanism. No. 1,410,772; Mar. 28.
 Stuber, Adolph, Rochester, N. Y. Registering mechanism. No. 1,433,310; Oct. 24.
 Stubbjare, Joe A., and H. L. Raiff, Columbus, assignors to Tubular Wall Company, Billings, Mont. Form for hollow molded walls. (Reissue.) No. 15,329; Apr. 4.
 Stucatur, Matthew, Philadelphia, Pa. Automatic change-speed mechanism. No. 1,416,996; May 23.
 Stuck, William R., San Francisco, Calif. Apparatus for elevating oil. No. 1,410,228; Mar. 21.
 Stucker, John M., and W. J. Kamerer, Rosedale, Kans. Vulcanizing attachment for internal-combustion engines. No. 1,414,445; May 2.
 Stucki, Arnold, Pittsburgh, Pa. Roller side bearing. No. 1,427,174; Aug. 29.
 Studdard, Thomas A., Carbon Hill, Ala. Shock absorber for automobiles. No. 1,418,105; May 30.
 Studebaker Corporation. (See Link, Vincent, assignor.)
 Studinka, Karl, Donora, Pa. Tool holder. No. 1,418,987; June 6.
 Studley, Chester F. (See Stanley, Edward E., assignor.)
 Stuebing Truck Company, The. (See Stuebing, William, jr., assignor.)
 Stuebing Truck Company, The. (See Stuebing, W., jr., and Van Guelpen, assignors.)
 Stuebing, William, jr., assignor to The Stuebing Truck Company, Cincinnati, Ohio. Lifting truck. No. 1,433,426; Oct. 24.
 Stuebing, William, jr., and H. A. Van Guelpen, Cincinnati, Ohio, assignors to The Stuebing Truck Company. Lifting truck. No. 1,427,764; Aug. 29.
 Stuer, Bernhard C., and W. Grob, Aachen, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Manufacture of product from acetylene. No. 1,421,743; July 4.
 Stuffings, Katherine E., administratrix. (See Stuffings, Lewis M.)
 Stuffings, Lewis M., deceased, Peoria; K. E. Stuffings, Peoria, Ill., administratrix. Shingle. No. 1,417,641; May 30.
 Stukart, Hendrik, assignor to U. S. Slicing Machine Company, Laporte, Ind. Slicing machine. No. 1,432,130; Oct. 17.
 Stukenborg, Frederick W. (See Stukenborg, Louis C., assignor.)
 Stukenborg, Frederick W., Chicago, Ill. Art of and device for picking cotton. No. 1,402,724; Jan. 3.
 Stukenborg, Louis C., Memphis, Tenn. Tire chain. No. 1,423,470; July 18.
 Stukenborg, Louis C., assignor to F. W. Stukenborg, Chicago, Ill. Cotton picking and handling mechanism. No. 1,404,246; Jan. 24.
 Stukenborg, Louis C., assignor to F. W. Stukenborg, Chicago, Ill. Conveying and cleansing mechanism for cotton. No. 1,417,782; May 30.
 Stukenborg, Louis C., assignor to F. W. Stukenborg, Chicago, Ill. Cotton-picker suction nozzle. No. 1,426,326; Aug. 15.
 Stuko-Steel Company, The. (See Frazer, William H., assignor.)
 Stultz, George H., Winterset, Iowa. Frame for automobile beds. No. 1,420,889; June 27.
 Stultz, Jubal E. (See Williams, G. E., Stultz, and Hill.)
 Stump, Samuel P., Morrison, Ill. Grain-distributing device for elevators. No. 1,413,505; Apr. 18.
 Stumpf, Johann, Berlin, Germany. Utilizing the energy of the exhaust of engines. No. 1,411,226; Mar. 28.
 Stung, William P., Lansdowne, Md., and L. R. Gilbert, Kalamazoo, Mich., assignors to The Webb Talking Pictures Company. Multiple-record table for motion-picture machines. No. 1,418,180; May 30.
 Sturgeon, Franklin E. (See Gates, William B., assignor.)
 Sturgeon, Jeremiah D., Guthrie, Okla. Rail joint. No. 1,434,456; Nov. 7.
 Sturges, Henry G., Utica, N. Y. Four-way-strap buckle. No. 1,419,592; June 13.
 Sturges, Howard P., Glenellyn, Ill. Garage. No. 1,432,131; Oct. 17.
 Sturges, Howard P., Glenellyn, Ill. Building. No. 1,432,132; Oct. 17.
 Sturges, John E., Oakland, Calif. Amusement device. No. 1,438,671; Dec. 12.
 Sturges, Norman D., Belleose, N. Y., assignor, by mesne assignments, to Multiple Storage Battery Corporation. Storage battery. No. 1,415,275; May 9.
 Sturges, Varney K., Oakland, Calif. Vulcanizing, and core for tire molds. No. 1,407,355; Feb. 21.
 Sturgis, Christopher M., Kansas City, Kans. Railway tie. No. 1,439,201; Dec. 19.
 Sturgis Go-Cart Co. (See Lindberg, Charles A., assignor.)
 Sturgis, Herbert M., assignor to Save-A-Handle Products Co., Kansas City, Mo. Mop head and fastener therefor. No. 1,420,639; June 27.
 Sturgis, Mabel M., Burley, Idaho. Underwaist. No. 1,415,616; May 9.
 Sturgis Steel Go-Cart Company. (See Lindberg, Charles A., assignor.)
 Sturk, Ewald E., Portland, Me. Toy cannon. No. 1,432,802; Oct. 24.
 Sturm, Earl J., and M. Surnson, assignors of one-third to A. M. Bowman, Houston, Tex. Movable painter's platform. No. 1,421,609; July 4.
 Sturm, Ray L. (See Parker, Will D., assignor.)
 Sturman, Louis. (See Ford, George G., assignor.)
 Sturrock, John, Chicago, Ill., assignor to International Harvester Company. Gag holder. No. 1,415,960; May 16.
 Sturt, Alfred T., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Automobile body. No. 1,406,240; Feb. 14.
 Sturt, Alfred T., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Body bracket for vehicle bodies. No. 1,406,241; Feb. 14.
 Sturt, Alfred T., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Spring bracket. No. 1,419,083; June 6.
 Sturt, Alfred T., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Driving cleat mechanism for motor-vehicle driving wheels. No. 1,422,009; July 4.
 Sturt, Alfred T., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Brake mechanism for motor vehicles. No. 1,431,131; Oct. 3.
 Sturt, Alfred T., New York, N. Y., and C. J. Whitacre, Janesville, Wis., assignors to General Motors Corporation, Detroit, Mich. Air-cleaning device for internal-combustion engines. No. 1,406,299; Feb. 14.
 Sturtevant, B. F., Company. (See Bentley, Oliver D. H., assignor.)
 Sturtevant, B. F., Company. (See Clamecy, Philippe, assignor.)
 Sturtevant Mill Company. (See Sturtevant, Thomas J., assignor.)
 Sturtevant, Paul A., Chicago, Ill. Radiator. No. 1,428,718; Sept. 12.
 Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Apparatus for manufacturing acid phosphate or superphosphate. No. 1,403,820; Jan. 17.
 Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Grinding machine. No. 1,412,026; Apr. 4.
 Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Apparatus for manufacturing acid phosphate or superphosphate. No. 1,428,920; Sept. 12.
 Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Apparatus for manufacturing acid phosphate or superphosphate. No. 1,428,921; Sept. 12.
 Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Apparatus for manufacturing acid phosphate or superphosphate. No. 1,428,922; Sept. 12.
 Stuth, Hugo V., Tacoma, Wash. Unloading apparatus for vehicles. No. 1,414,600; May 2.
 Stutika, John, West Pullman, Ill. Automobile attachment. No. 1,405,352; Jan. 31.
 Stutsman, Abraham A., Hammond, Ind. Apparatus for preventing scale deposit and foaming in boilers. No. 1,419,701; June 13.
 Stutte, Joseph L., Flint, Mich. Curtain stretcher. No. 1,414,231; Apr. 25.
 Stüttgen, Otto, Futerbog, Germany. Device for stretching wire and wire ropes. No. 1,429,796; Sept. 19.
 Stutts, Asa L., assignor to Monarch Bobbin Cleaner Co., Union, S. C. Bobbin-cleaning machine. No. 1,412,719; Apr. 11.
 Stutzke, R., Company. (See Zimmermann, Hans J., assignor.)
 Styles, Otto H., Toledo, Ohio. Pencil calendar. No. 1,435,672; Nov. 14.
 Styl, Harry H., Southbridge, Mass. Eye protector. No. 1,421,744; July 4.
 Subers, Lawrence A., Lakewood, Ohio. Process and mechanism for continuously solidifying and vulcanizing coating compounds. No. 1,411,593; Apr. 4.
 Subers, Lawrence A., Lakewood, Ohio. Hose of predetermined action under pressure. No. 1,425,148; Aug. 8.
 Subers, Lawrence A., Lakewood, Ohio. Mold for transverse and annular pneumatic tires. No. 1,429,377; Sept. 19.

- Subers, Lawrence A., Lakewood, and E. Mosman, Cleveland, Ohio; said Mosman assignor to said Subers. Machine for constructing a laminated cohesive inter-laid fabric. No. 1,425,147; Aug. 8.
- Submarine Devices Corporation. (See Ebeling, Frederick W., assignor.)
- Submarine Signal Company. (See Fay, Harold J. W., assignor.)
- Submarine Signal Company. (See Fessenden, Reginald A., assignor.)
- Submarine Signal Company. (See Hopwood, Frank L., assignor.)
- Submarine Signal Company. (See Mason, Max, assignor.)
- Submarine Signal Company. (See Williams, Robert L., assignor.)
- Submarine Signal Company. (See Wood, Edward C., assignor.)
- Sucher, Pius, Philadelphia, Pa. Phonograph reproducer. No. 1,402,909; Jan. 10.
- Suchet, Joseph U., Nuits-St.-Georges, France. Machine for bending cask hoops. No. 1,431,848; Oct. 10.
- Suchopárek, Rudolf. (See Becker, E., and Suchopárek.)
- Sudiah, Rachel, New York, N. Y. Electric heating system. No. 1,432,133; Oct. 17.
- Sudler, Charles E. (See Sudler, Emory and C. E.)
- Sudler, Emory and C. E., New York, N. Y. Liquid-dispensing apparatus. No. 1,404,492; Jan. 24.
- Sudler, Emory and C. E., Tarrytown, N. Y. Automatic register for liquids. No. 1,418,495; June 6.
- Suedmeyer, Louis, assignor to E. Keller, St. Louis, Mo. Tobacco pipe. No. 1,416,425; May 16.
- Suehy, Albert, jr., and E. W. Hopper, Philadelphia, Pa. Machine for making perforated music rolls. No. 1,427,336; Aug. 29.
- Suekoff, Louis A., Chicago, Ill. Spring-cushion construction. No. 1,410,965; Mar. 28.
- Suekoff, Louis A., Chicago, Ill. Spring-cushion construction. No. 1,411,227; Mar. 28.
- Suekoff, Samuel, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Voltage-regulating circuit. No. 1,439,036; Dec. 19.
- Suffa, George A., Boston, Mass. Valve-silencing mechanism. No. 1,411,387; Apr. 4.
- Suffa, Steven J., and F. Ruzicka, New York, N. Y. Folding support. No. 1,412,377; Apr. 11.
- Sugar Machinery Company. (See Steps, Robert A., assignor.)
- Sugar Research Syndicate, Ltd., The. (See Ramage, Alexander S., assignor.)
- Sugden, John E., Hub City, Wis. Planetary transmission. No. 1,410,424; Mar. 21.
- Suhre, Frank A., Neponset, Mass. Shock absorber for automobiles and other vehicles. No. 1,411,130; Mar. 28.
- Suiter, Harold R., Red Lodge, Mont. Form for molds. No. 1,440,185; Dec. 26.
- Sulek, Kazimierz. (See Zakrzewski, R., and Sulek.)
- Sulek, Kazimierz, Thorpe, W. Va. Toilet implement. No. 1,409,979; Mar. 21.
- Sullivan, Alan P., St. Marys, Pa., assignor to Stackpole Carbon Company. Making graphitized material. No. 1,411,537; Apr. 4.
- Sullivan, Arthur B. (See Mott, Samuel D., assignor.)
- Sullivan, Charles L., Chicago, Ill., and J. D. Fletcher, Evansville, Ind. Paving block. No. 1,422,193; July 11.
- Sullivan, Daniel J., Kansas City, Mo. Paint sprayer. No. 1,434,569; Nov. 7.
- Sullivan, E. Mark, administrator. (See McFeely, Ronald F.)
- Sullivan, Eugene C., and W. C. Taylor, assignors to Corning Glass Works, Corning, N. Y. Glass. No. 1,408,145; Feb. 28.
- Sullivan, Frank P., Belvidere, Ill. Washbasin for automobiles. No. 1,426,018; Aug. 15.
- Sullivan, Giles E., et al. (See Watkins, Joseph W., assignor.)
- Sullivan, Harold L. (See Dunlap, Forrest B., assignor.)
- Sullivan, J. J. (See Hill, Martin B., assignor.)
- Sullivan, James E., Jackson, Ohio. Piston-head construction. No. 1,437,869; Dec. 5.
- Sullivan, Jerry J., Spokane, Wash. Portable electric lamp. No. 1,419,327; June 13.
- Sullivan, John J., Lowell, Mass. Reserve-supply valve for liquid-fuel tanks. No. 1,413,069; Apr. 18.
- Sullivan, John L., Oakland, Calif. Wire-fastening device. No. 1,435,429; Nov. 14.
- Sullivan, John L. C., St. Paul, Minn. Direction indicator for automobiles. No. 1,411,756; Apr. 4.
- Sullivan, Joseph V. (See Cummings, R. E., and Sullivan.)
- Sullivan, Linn B., Decatur, Ga. Cooking stove. No. 1,430,125; Sept. 26.
- Sullivan Machinery Company. (See Allen, Charles H., assignor.)
- Sullivan Machinery Company. (See Berkey, Harvey C., assignor.)
- Sullivan Machinery Company. (See Brewster, Burt B., assignor.)
- Sullivan Machinery Company. (See Cartlidge, Frank, assignor.)
- Sullivan Machinery Company. (See Clapp, Lewis J., assignor.)
- Sullivan Machinery Company. (See Gartin, Elmer G., assignor.)
- Sullivan Machinery Company. (See Gilman, George H., assignor.)
- Sullivan Machinery Company. (See Halleck, Frank A., assignor.)
- Sullivan Machinery Company. (See Halvorsen, Halbert B., assignor.)
- Sullivan Machinery Company. (See Holdsworth, F. D., and Wyman, assignors.)
- Sullivan Machinery Company. (See Holdsworth, Fred D., assignor.)
- Sullivan Machinery Company. (See Holmes, Morris P., assignor.)
- Sullivan Machinery Company. (See Johansen, Harry C., assignor.)
- Sullivan Machinery Company. (See Mercer, Henry H., assignor.)
- Sullivan Machinery Company. (See Oliphant, John, assignor.)
- Sullivan Machinery Company. (See Treese, Edmund C., assignor.)
- Sullivan Machinery Company. (See Wineman, Wade H., assignor.)
- Sullivan Machinery Company. (See Wyman, Charles W., assignor.)
- Sullivan, Mark N., Edison, Calif. Child's amusement-bar device. No. 1,436,367; Nov. 21.
- Sullivan, Michael H., Poughkeepsie, N. Y. Piston and piston ring. No. 1,427,425; Aug. 29.
- Sullivan, Michael H., Poughkeepsie, N. Y. Piston and piston ring. No. 1,433,428; Oct. 24.
- Sullivan, Percy B., Decatur, Ill. Acetylene-gas-generating apparatus. No. 1,412,901; Apr. 18.
- Sullivan, Raymond H., assignor to North East Electric Company, Rochester, N. Y. Temperature compensation for electric instruments. No. 1,411,311; Apr. 4.
- Sullivan, Rubie, et al. (See Watkins, Joseph W., assignor.)
- Sullivan, Sidney Y., Newark, N. J. Bracket for kitchen tables. No. 1,402,910; Jan. 10.
- Sullivan, Stephen, et al. (See Bulski, Andrew, assignor.)
- Sullivan, Stephen W., Indianapolis, Ind. Overalls. No. 1,434,510; Nov. 7.
- Sullivan, Thomas H., Springfield, Ohio. Belt. No. 1,438,793; Dec. 12.
- Sullivan, Timothy J., Hartford, and W. J. Sullivan, East Hartford, Conn. Geometric instrument. No. 1,436,415; Nov. 21.
- Sullivan, William E., Jacksonville, Ill. Turnbuckle. No. 1,420,460; June 20.
- Sullivan, William J. (See Sullivan, Timothy J. and W. J.)
- Sullivan, William J., assignor to American Equipment Company, Chicago, Ill. Apparatus for transporting and unloading brick. No. 1,432,638; Oct. 17.
- Sulman, Henry L. (See Edser, E., Sulman, and Jones.)
- Sulman, Henry L., T. J. Taplin, jr., W. G. Perkins, and H. F. K. Picard, assignors to H. Wade, London, England. Treatment of ores containing oxidized copper compounds. No. 1,440,186; Dec. 26.
- Sultzman, John V., Hannibal, Mo. Bread-labeling machine. No. 1,406,588; Feb. 14.
- Sulzberger, Nathan, New York, N. Y. Nonpyrophoric catalysts and effecting catalytic reactions therewith. No. 1,426,517; Aug. 22.
- Sulzer, Albert F., assignor to Eastman Kodak Company, Rochester, N. Y. Antistatic photographic film. No. 1,418,405; June 6.
- Sulzer, Albert F., assignor to Eastman Kodak Company, Rochester, N. Y. Nitrocellulose composition. No. 1,429,174; Sept. 12.
- Sulzer, Albert F., assignor to Eastman Kodak Company, Rochester, N. Y. Antistatic photographic film. No. 1,432,366; Oct. 17.
- Sulzer, Albert F., assignor to Eastman Kodak Company, Rochester, N. Y. Antistatic photographic film. No. 1,432,367; Oct. 17.
- Sulzer, Albert F., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic film. No. 1,432,368; Oct. 17.
- Sulzer, Albert F., assignor to Eastman Kodak Company, Rochester, N. Y. Composition of matter for use in film making. No. 1,437,828; Dec. 5.
- Sulzer, Albert F., assignor to Eastman Kodak Company, Rochester, N. Y. Composition for making antistatic photographic films. No. 1,437,829; Dec. 5.
- Sulzer, Albert F., and H. G. Dewey, assignors to Eastman Kodak Company, Rochester, N. Y. X-ray dental film package. No. 1,437,827; Dec. 5.
- Suman, John R., Houston, and A. R. Gamble, Velasco, Tex. Hoisting drum. No. 1,414,795; May 2.
- Suman, John R., Houston, Tex., assignor to Lucey Manufacturing Corporation of Tennessee, Chattanooga, Tenn. Pumping apparatus. No. 1,428,866; Sept. 12.
- Sumbling Machinery Company. (See Sumbling, William H., assignor.)
- Sumbling, William H., assignor to Sumbling Machinery Company, Limited, Toronto, Ontario, Canada. Combined reversing gear and belt shifter and tightener mechanism for power-driven machines. No. 1,417,699; May 30.
- Sumbling, William H., assignor to Sumbling Machinery Company, Limited, Toronto, Ontario, Canada. Fluid-tight joint. No. 1,429,303; Sept. 19.

Alphabetical list of patentees—Continued.

- Sumbulian, Sarkis H., Fresno, Calif. Automobile fender. No. 1,422,388; July 11.
- Summerfield, Alex. (See Stevens, Jerry W., assignor.)
- Summerfield, Bernard, Chicago, Ill. Shoe heel. No. 1,426,019; Aug. 15.
- Summerfield, Frederick W., Toledo, Ohio. Beehive frame. No. 1,425,295; Aug. 8.
- Summerhays, Elmer M., Hammond, Ind., assignor to F. Schaefer, Pittsburgh, Pa. Brake-rod jaw. No. 1,405,877; Feb. 7.
- Summerlin, Lazarus J., Clem, Ga. Cultivator attachment. No. 1,419,477; June 13.
- Summers, Alexander, Saskatoon, Saskatchewan, Canada. Easel for holding sheet music, books, or the like. No. 1,409,614; Mar. 14.
- Summers, Charles E. (See Harden, Ora D., assignor.)
- Summers, Charley E., assignor of one-half to F. I. Cowdery, Nowata, Okla. Wrench. No. 1,434,635; Nov. 7.
- Summers, George W., Denver, Colo. Hollow metal window. No. 1,431,849; Oct. 10.
- Summers, Harry W. and R. W., assignors to Detroit Universal Solvent Company, Detroit, Mich. Varnish composition. No. 1,413,628; Apr. 25.
- Summers, Leland L., Chicago, Ill. Retort. No. 1,422,634; July 11.
- Summers, Mark L., Hammon, Calif., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Pin stop for dredge buckets. No. 1,423,367; July 18.
- Summers, Raymond W. (See Summers, Harry W. and R. W.)
- Summers, Robert A., Van Nuys, Calif. Adjustable stilt. No. 1,418,685; June 6.
- Summers, William H., Florence, Kans. Apparatus for treating crude oil. No. 1,405,876; Feb. 7.
- Summey, David L., Waterbury, Conn., assignor to Scovill Manufacturing Company. Making tubes. No. 1,432,803; Oct. 24.
- Summit Thread Company. (See Johnson, Henry G., assignor.)
- Summit Thread Company. (See Weaver, Lucius E., assignor.)
- Sumner, Frederick M. (See Dantrick, Owen L., assignor.)
- Sumner Iron Works. (See Dorman, George W., assignor.)
- Sumner Iron Works. (See Lueth, Paul F., assignor.)
- Sumner, Walter. (See Stoltman, F., and Sumner.)
- Sumner, William, Liverpool, England. Clutch. No. 1,436,830; Nov. 28.
- Sumpter, Fred S., Stratford, assignor of one-half to R. F. F. Hamlett, Wansted, England. Machine for making concrete blocks, slabs, and the like. No. 1,411,757; Apr. 4.
- Sumpter, John E., St. Paul, Minn. Signal device. No. 1,433,311; Oct. 24.
- Sun Company. (See Maitland, Harold T., assignor.)
- Sun Light Arc Corporation. (See Westcott, Pliny K., assignor.)
- Sun Motors Corporation. (See Wedig, John H., assignor.)
- Sun Shipbuilding Company. (See Cunliffe, Edward T., assignor.)
- Sun Typewriter Company. (See Rowley, Edward G., assignor.)
- Sunbeam Chemical Company. (See Huffman, Charles C., assignor.)
- Sunbeam Motor Car Company Limited. (See Coatalen, L., and Irvin, assignors.)
- Sundback, Gideon, Meadville, Pa., assignor to Hookless Fastener Company. Fastener. No. 1,403,988; Jan. 17.
- Sundback, Gideon, Meadville, Pa., assignor to Hookless Fastener Company. Vehicle and other curtain. No. 1,432,219; Oct. 17.
- Sundback, Gideon, Meadville, Pa., assignor to Hookless Fastener Company. Making fasteners. No. 1,434,857; Nov. 7.
- Sundby Battery & Manufacturing Company. (See Sundby, John C., assignor.)
- Sundby, John C., assignor to Sundby Battery & Manufacturing Company, Enderlin, N. Dak. Storage-battery element. No. 1,417,214; May 23.
- Sunde, A. A., Ute, Iowa. Tractor attachment. No. 1,418,181; May 30.
- Sundelius, Severus. (See Davidson, A. H., and Sundelius.)
- Sunden, Carl G., Chicago, Ill. Automobile tire pump. No. 1,420,587; June 20.
- Sunderman Corporation. (See Sunderman, Frederick R., assignor.)
- Sunderman, Frederick R., assignor to Sunderman Corporation, Newburgh, N. Y. Jack. No. 1,427,241; Aug. 29.
- Sundh, August, Hastings-upon-Hudson, New York, N. Y. Method of and apparatus for treating metal. No. 1,412,979; Apr. 18.
- Sundh, August, Hastings-upon-Hudson, N. Y., assignor to Sundh Engineering and Machine Company, Philadelphia, Pa. Machine for treating metal strips. No. 1,412,978; Apr. 18.
- Sundh, August, Hastings-upon-Hudson, N. Y., assignor to Sundh Engineering and Machine Company, Philadelphia, Pa. Machine for treating metal strips. No. 1,436,464; Nov. 21.
- Sundh Engineering and Machine Company. (See Sundh, August, assignor.)
- Sundhausen, Hermann, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Unloading device for the shaft and bearing of a vertical gyroscope. No. 1,404,329; Jan. 24.
- Sundstrand, Gustaf D., assignor to Rockford Tool Company, Rockford, Ill. Indexing mechanism. No. 1,425,716; Aug. 15.
- Sundstrand, Gustaf D., assignor to Rockford Milling Machine Company, Rockford, Ill. Milling machine. No. 1,425,717; Aug. 15.
- Sundstrand, Gustaf D., assignor to Rockford Tool Company, Rockford, Ill. Lathe. No. 1,428,816; Sept. 12.
- Sundstrand, Gustaf D., assignor to Rockford Milling Machine Company, Rockford, Ill. Milling machine. No. 1,430,268; Sept. 26.
- Sunski, Stanley E., et al. (See Treisch, William H., assignor.)
- Superheater Company, The. (See Broido, Benjamin, assignor.)
- Superheater Company, The. (See Mournie, John E., assignor.)
- Superheater Company, The. (See True, Charles H., assignor.)
- Superheater Corporation Limited, The. (See Thom, Robert A., assignor.)
- Superior Damper Company. (See Randall, C. F., Clark, and Smith, assignors.)
- Superior Iron Works Company. (See Zimmerman, Frank R., assignor.)
- Superior Manufacturing Company, The. (See Dudgeon, Thomas M., assignor.)
- Superior Manufacturing Company, The. (See Fullington, William H., assignor.)
- Superior Manufacturing Company. (See Woock, Walter R., H. J., and E. M., assignors.)
- Superior Pulley Co. (See Mott, Archibald T., assignor.)
- Superior Radiator Company. (See Linderose, Ossian S., assignor.)
- Superior Refrigerating Company, The. (See Andrews, Frank W., assignor.)
- Superior Steel Castings Company. (See Gilmore, William R., assignor.)
- Superior Type Company, The. (See Willard, Maurice L., assignor.)
- Supplee, Henry H., New York, N. Y. Airship form. No. 1,412,297; Apr. 11.
- Supplee, Henry H., New York, N. Y. Transmission and speed-conversion mechanism. No. 1,415,128; May 9.
- Supplee, John R., Portland, Oreg. Rim breaker. No. 1,420,781; June 27.
- Supreme Electric Hair Cutting Corporation. (See Hermann, Otto, assignor.)
- Supreme Tribe of Ben Hur, The. (See Mason, Edwin M., assignor.)
- Surnson, Morris. (See Sturm, E. J., and Surnson.)
- Surpass Chemical Co. (See Roberts, Arthur S., assignor.)
- Surridge, Joseph F., Chicago, Ill. Pressed steel wheel and producing the same. No. 1,416,524; May 26.
- Sury, Walter, Providence, R. I. Tool holder. No. 1,440,187; Dec. 26.
- Sust, Dominick M., and N. H. Barrows, Waterville, Me. Vine separator for potato harvesters. No. 1,412,426; Apr. 11.
- Suski, Wawrzyniec, Flint, Mich. Combination trunk. No. 1,420,782; June 27.
- Susquehanna Silk Mills. (See Pluemacher, Reinhard, assignor.)
- Susquehanna Silk Mills. (See Scheesley, Charles W., assignor.)
- Susquehanna Silk Mills. (See Six, Eleuthere, assignor.)
- Sussman, A., & Co. (See Sussman, Abraham, assignor.)
- Sussman, Abraham, assignor to A. Sussman & Co., Philadelphia, Pa. Combined case and easel for photographs or other pictures. No. 1,407,497; Feb. 21.
- Sussman, Julius L., New York, N. Y. Tubular structure. No. 1,425,718; Aug. 15.
- Sussman, Maxwell H., New York, assignor to Mohegan Tube Co., Brooklyn, N. Y. Apparatus for welding joints. No. 1,436,062; Nov. 21.
- Sutcliffe, Godfrey H., West Ealing, England. Means for taking photographs with special scenic or background effects. No. 1,418,033; May 30.
- Sutcliffe, John P., East Orange, N. J. Container. No. 1,431,850; Oct. 10.
- Suter, Daniel B. (See Shepard, Homer E., assignor.)
- Suter, Eugene F., London, England. Hair curler. No. 1,426,020; Aug. 15.
- Suther, Louis, Hubbard County, Minn. Poultry decapitator. No. 1,427,562; Aug. 29.
- Sutherland, Bainbridge P., Del Norte, Colo. Lacing hook. No. 1,413,629; Apr. 25.
- Sutherland Collapsible Paper Box Company. (See Sutherland, Stafford F., assignor.)
- Sutherland, Enos E., Los Angeles, Calif. Collapsible crate. No. 1,422,797; July 11.
- Sutherland, Fred, Chicago, Ill. Attachment for telephone transmitters. No. 1,428,305; Sept. 5.
- Sutherland, Harry C., Oak Park, Ill. Wrench. No. 1,406,910; Feb. 14.
- Sutherland, Isaac, Melbourne, Victoria, Australia. Cinematographic machine. No. 1,426,614; Aug. 22.

- Sutherland, Stafford F., assignor to Sutherland Collapsible Paper Box Company, Philadelphia, Pa. Collapsible folding box. No. 1,425,068; Aug. 8.
- Sutherland, William. (See Goodwin, A. N., and Sutherland.)
- Sutherland, William H., Detroit, Mich. Magnetically-controlled switch and train stop. No. 1,403,654; Jan. 17.
- Sutherland, William T., San Jose, Calif. Wrist-pin wrench. No. 1,435,511; Nov. 14.
- Sutherland, Robert M., Los Angeles, Calif. Electric-current controller and spark intensifier. No. 1,413,140; Apr. 18.
- Sutcliffe, Charles A., Detroit, Mich. Poultry lamp. No. 1,411,758; Apr. 4.
- Sutcliffe, Frank L. (See Shortell, W. H., and Sutcliffe.)
- Sutliff, Franklin B., Jamison City, Pa. Gun. No. 1,414,714; May 2.
- Sutphen, Robert M., Newark, N. J., assignor to Bi-View, Limited, New York, N. Y. Illustration. No. 1,407,498; Feb. 21.
- Sutter, Charles, Suresnes, France. Automatic machine gun. No. 1,431,057; Oct. 3.
- Sutter, Charles, Suresnes, France. Muzzle support for automatic guns. No. 1,431,058; Oct. 3.
- Sutter, Charles, Suresnes, France. Gas-controlling attachment for gas-operated guns. No. 1,431,059; Oct. 3.
- Sutton, Asher I., and J. O. Criss, West Milford, W. Va. Weather stop. No. 1,434,928; Nov. 7.
- Sutton, Eunice, and S. M. Ward, New York, N. Y. No. 1,420,890; June 27.
- Sutton, Joseph, Walla Walla, Wash. Twine cutter. No. 1,407,446; Feb. 21.
- Sutton, Robert J. (See Throp, E. E., and Sutton.)
- Sutton, William S., Rockford, Ill. Method of and apparatus for ramming sand into molds. No. 1,426,615; Aug. 22.
- Suydam, Clarence K., assignor of four-tenths to L. W. Stone, Utica, N. Y. Shuttle. No. 1,409,793; Mar. 14.
- Svedahl, August O., Marmarth, N. Dak. Tail light for automobiles. No. 1,424,047; July 25.
- Svehla, Martin J., Sutherland, Iowa. Game trap. No. 1,421,610; July 4.
- Svehla, Martin J., Sutherland, Iowa. Game trap. No. 1,421,611; July 4.
- Svensden, Niels P. (See Bater, M. R., Svensden, Trump, and Mahoney.)
- Svensden, Svend E., Seattle, Wash. Spotlight. No. 1,433,044; Oct. 24.
- Svendsgaard, Sverre R., Portland, Oreg. Toilet outfit. No. 1,426,021; Aug. 15.
- Svenning, Robert W., Gottenborg, assignor to Nordiska Kullager Aktiebolaget, Regulugatan, Gottenborg, Sweden. Ball-grinding machine. No. 1,404,169; Jan. 17.
- Svenning, Robert W., Gottenborg, assignor to Nordiska Kullager Aktiebolaget, Regulugatan, Lundby, Gottenborg, Sweden. Apparatus for the revision of balls. No. 1,429,797; Sept. 19.
- Svenska Ackumulator-Aktiebolaget Jungner. (See Ameln, R., and Montelius, assignors.)
- Svenska Aktiebolaget Nobel-Diesel. (See Derans, Oscar A., assignor.)
- Svenson, Charles W., New Britain, Conn. Coaster brake. No. 1,408,842; Mar. 7.
- Svenson, Charles W., assignor to The American Hardware Corporation, New Britain, Conn. Driving mechanism for speedometers. No. 1,404,067; Jan. 17.
- Svenson, Johan A., Stockholm, Sweden. Snatch cleat. No. 1,432,369; Oct. 17.
- Svenson, Olof H., Gottenborg, Sweden. Siren or fog horn. No. 1,427,034; Aug. 22.
- Sviontek, Roman, Chicago, Ill. Meat holder. No. 1,418,213; May 30.
- Swaidmark, Albin P., Manchester, N. H. Spark plug. No. 1,434,636; Nov. 7.
- Swain, Charles S., and C. Corum, Long Beach, Calif. Lawn-mower sharpener. No. 1,405,561; Feb. 7.
- Swain, Lee O. (See Harris, H. E., and Swain.)
- Swain, Erwin M., Plymouth, Calif. Transmission control. No. 1,413,301; Apr. 18.
- Swain, Hadwen, San Francisco, Calif. Automatic phonograph. No. 1,422,321; July 11.
- Swain, Joseph G., assignor to The Firestone Steel Products Company, Akron, Ohio. Wheel and demountable rim. No. 1,439,037; Dec. 19.
- Swain, Leonard H., Manchester, England. Road wheel for motor vehicles. No. 1,403,821; Jan. 17.
- Swain, Seth R., East Orange, N. J. Pulley. No. 1,422,389; July 11.
- Swallow, William H., Johnstown, Pa. Spirit wheel. No. 1,418,686; June 6.
- Swan, Darius, Worthington, Ind. Spark plug. No. 1,412,320; Apr. 11.
- Swan, Frederick A., Cliftondale, Mass. Automatic fire alarm. (Reissue.) No. 15,436; Aug. 22.
- Swan, George E., Providence, R. I. Braiding-machine attachment. No. 1,434,320; Oct. 31.
- Swan, Herbert H., Grand Rapids, Mich., assignor to Grand Rapids Tire and Rubber Corporation. Tire. No. 1,428,817; Sept. 12.
- Swan Hunter & Wigham Richardson Limited. (See Childs, J., and Evans, assignors.)
- Swan, John, Jr., Marietta, Ohio. Underreamer. No. 1,422,236; July 11.
- Swan, John B., J. A. Rogers, and G. W. Jackson, Gladstone, Mich. Bedspring apparatus. No. 1,425,719; Aug. 15.
- Swan, John C., Marietta, Ohio. Apparatus for excluding water from drilled wells for oil. No. 1,413,197; Apr. 18.
- Swan, John H. (See Woodsome, John O., and Swan.)
- Swan, John H., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Aerial torpedo or drop bomb. No. 1,418,606; June 6.
- Swan, John W., Stamford, Conn. Carburetor primer. No. 1,407,356; Feb. 21.
- Swan, W. H., et al. (See Clark, Harold H., assignor.)
- Swan, Willis A., Port Huron, Mich. Air pump. No. 1,424,123; July 25.
- Swanberg, Julius, assignor to Fabart Instrument Company, Chicago, Ill. Automatic alarm. No. 1,415,207; May 9.
- Swanda, James P., Cleveland, Ohio. Fuel-oil burner. No. 1,402,268; Jan. 3.
- Swander, Dan C., assignor to The Standard Parts Company, Cleveland, Ohio. Rim. No. 1,417,285; May 23.
- Swaney, Charles E., and R. H. Mulford, Bridgeton, N. J. Attachment for screw drivers. No. 1,433,427; Oct. 24.
- Swaney, Robert R., Sacramento, Calif. Automobile radiator. No. 1,417,783; May 30.
- Swank, Arthur H. (See Michaels, Chauncey A., assignor.)
- Swanson, Adolf A., Everett, Mass. Stair structure. No. 1,420,294; June 20.
- Swanson, August, Cedar Rapids, Iowa. Ironing board. No. 1,415,961; May 16.
- Swanson, Carl W., Chicago, Ill. Ironing machine. No. 1,432,639; Oct. 17.
- Swanson, Frank A., assignor to Splitdorf Electrical Company, Newark, N. J. Constructing permanent magnets. No. 1,432,920; Oct. 24.
- Swanson, Frank H., Chicago, Ill., assignor to A. J. Nyström and Company. Loose-leaf-map holder. No. 1,434,511; Nov. 7.
- Swanson, John S., St. Paul, Minn. Toy car or coach. No. 1,410,774; Mar. 28.
- Swanson, Olof, Denver, Colo. Lubricator. No. 1,430,109; Sept. 26.
- Swanson, Olaf J., Chappaqua, N. Y. Lamp-base extractor. No. 1,414,315; Apr. 25.
- Swanson, Oscar S., Jamestown, N. Y. Electrical switch. No. 1,411,131; Mar. 28.
- Swanson, Peter, and A. Carlson, Ely, Minn. Auxiliary car step. No. 1,425,149; Aug. 8.
- Swanson, Sherwood W., Jacksonville, Fla. Demountable rim. No. 1,423,471; July 18.
- Swanson, Swan J., St. Louis, assignor of one-half to O. W. Gerleman, St. Paul, Mo. Apparatus for separating graphite. No. 1,432,921; Oct. 24.
- Swantees, Samuel F., St. Louis, Mo. Adjustable crotch for undergarments. No. 1,432,804; Oct. 24.
- Swart, George R., & Company. (See Ehlig, Harry, assignor.)
- Swart, George R., & Company. (See Robertson, Arno W., assignor.)
- Swart, Homer M. (See Swart, Philip F., assignor.)
- Swart, James W. (See Clements, C., Swart, and Nutbrown.)
- Swart, Philip F., assignor to H. M. Swart, Rochester, N. Y. Caster. No. 1,440,115; Dec. 26.
- Swartout, William E., Chicago, Ill. Precision measuring instrument. No. 1,427,132; Aug. 29.
- Swarts, Laurence W., Los Angeles, Calif. Windshield. No. 1,402,188; Jan. 3.
- Swarts, Laurence W., Los Angeles, Calif. Vehicle visor. No. 1,413,070; Apr. 18.
- Swartwood, Charles C., Centralia, Wash. Evaporative iceless refrigerator. No. 1,427,981; Sept. 5.
- Swartz, Daniel B. (See Ekehorn, Sven A., assignor.)
- Swartz Electric Company. (See Myers, Clyde J., assignor.)
- Swartz Electric Company. (See Whisenand, Omer B., assignor.)
- Swartz, Sophia, New York, N. Y. Combined change purse and memorandum book. No. 1,438,145; Dec. 5.
- Swartz, Torrence A., Huguenot Park, N. Y., and Edgar F. Ottmyer, Prince Bay, N. Y., assignors to The S. S. White Dental Manufacturing Company. Dental rubber. No. 1,413,071; Apr. 18.
- Swartzman, Morris, Brooklyn, N. Y. Safety device for motor vehicles. No. 1,427,242; Aug. 29.
- Swasey, Horace T., Trenton, N. J. Spreader. No. 1,426,423; Aug. 22.
- Swatzell, James F., Decatur, Ala. Portable cylinder re-boring and regrinding machine. No. 1,418,744; June 6.
- Sway, Henry. (See Liskow, Simeund, assignor.)
- Swayze, William A., Toronto, Ontario, Canada. Curtain-light frame. No. 1,431,706; Oct. 10.
- Swearingen, Thomas L., Danville, Ky. Sand-distributing apparatus. No. 1,403,878; Jan. 17.
- Swebilius, Carl G., assignor, by mesne assignments, to The Marlin Firearms Corporation, New Haven, Conn. Automatic firearm. No. 1,402,459; Jan. 3.
- Swebilius, Carl G., assignor, by mesne assignments, to The Marlin Firearms Corporation, New Haven, Conn. Takedown firearm. No. 1,412,298; Apr. 11.
- Swebilius, Carl G., assignor, by mesne assignments, to The Marlin Firearms Corporation, New Haven, Conn. Firearm. No. 1,422,237; July 11.

Alphabetical list of patentees—Continued.

- Swebilius, Carl G., assignor, by mesne assignments, to The Marlin Firearms Corporation, New Haven, Conn. Firearm. No. 1,422,238; July 11.
- Swedlund, Erick J., Williston, S. Dak. Separable cuff button. No. 1,404,247; Jan. 24.
- Swedlund, Erick J., Williston, N. Dak. Separable cuff button. No. 1,431,339; Oct. 10.
- Sweeden, Alexander F., Long Island City, N. Y. Feeding, sorting, and collecting mechanism. No. 1,429,547; Sept. 19.
- Sweely, Burton T. (See Bellamy, H. T., and Sweely.)
- Sweeney, Edward J., Hammond, Ind. Spring retainer and safety cover for sectional-tube expanders. No. 1,408,546; Mar. 7.
- Sweeney, Henry, Fall River, Mass. Hairpin. No. 1,404,493; Jan. 24.
- Sweeney, John, Toronto, Ontario, Canada. Adjustable car wheel. No. 1,413,072; Apr. 18.
- Sweeney, Orland R., Ames, Iowa, assignor to N. D. Baker, trustee, Secretary of War. Making chloropierin. No. 1,413,198; Apr. 18.
- Sweeney, William, assignor, by mesne assignments, of one-half to D. A. Oliphant, Seattle, Wash. Cigarette-making device. No. 1,413,809; Apr. 23.
- Sweeney, William P., Minneapolis, Minn. Union suit. No. 1,435,756; Nov. 14.
- Sweeny, Robert P., Union, S. C. Air-induction cleaning apparatus. No. 1,426,518; Aug. 22.
- Sweet, Arthur J., Milwaukee, Wis. Sectional lighting furniture. No. 1,438,344; Dec. 12.
- Sweet, Clifford I., Sterling, Ill. Milk-can attachment. No. 1,436,211; Nov. 21.
- Sweet Dreams Company, The. (See Williamson, James O., assignor.)
- Sweet, Howard M., assignor to Rex Tractor Co., Detroit, Mich. Gang plow. No. 1,438,146; Dec. 5.
- Sweet, Jeremiah B., Hutchinson, Kans. Shaker. No. 1,411,594; Apr. 4.
- Sweet, Mary. (See Grunewald, G. G., and Sweet.)
- Sweet, Oscar, Schenectady, N. Y. Refuse receptacle. No. 1,420,391; June 20.
- Sweet, Roger J., Buffalo, N. Y., assignor, by mesne assignments, to Buffalo Equipment & Construction Company, Inc. Asphalt cutter. No. 1,413,630; Apr. 25.
- Sweetland, Arthur H., deceased, Long Beach, Calif.; I. Sweetland executrix. Hand drill. No. 1,411,538; Apr. 4.
- Sweetland, Arthur H., deceased, Los Angeles, by Inez Sweetland, executrix, Long Beach, Calif. Case for electric hand drills. No. 1,411,539; Apr. 4.
- Sweetland, Ernest J., Montclair, N. J. Gas diffuser. No. 1,405,578; Jan. 17.
- Sweetland, Ernest J., Montclair, N. J. Filter. No. 1,432,134; Oct. 17.
- Sweetland, Ernest J., Montclair, assignor of one-third to W. P. Hammond, Passaic, N. J. Book support. No. 1,433,162; Oct. 24.
- Sweetland, Inez, executrix. (See Sweetland, Arthur H.)
- Sweatnart, Waitstill H., Montclair, N. J. Making arsenate insecticides. No. 1,418,848; June 6.
- Swenckl, Anton, Racine, Wis. Combined land and water vehicle. No. 1,420,783; June 27.
- Sweney, Harry K., Alcora, Wyo. Connection for culverts. No. 1,408,485; Mar. 7.
- Swenington, Lawrence G., assignor of one-half to P. E. Rea, Chicago, Ill. Safety appliance. No. 1,421,039; June 27.
- Swensen, Alfred, Cicero, assignor to The Cable Company, Chicago, Ill. Automatic musical instrument. No. 1,404,805; Jan. 31.
- Swensen, Alfred, Morton Park, assignor to The Cable Company, Chicago, Ill. Pressure regulator. No. 1,405,461; Feb. 7.
- Swensen, Elmer, Valders, Wis. Electrical system for use in cattle stalls. No. 1,411,312; Apr. 4.
- Swenson, Carl, et al. (See Faust, Levin, assignor.)
- Swenson, George E., Philadelphia, Pa., assignor to The Barrett Company. Roof. No. 1,421,040; June 27.
- Swenson, George E., Hastings-upon-Hudson, N. Y., assignor to The Barrett Company. Flashing receptacle and brace. No. 1,427,921; Sept. 5.
- Swenson, George E., Hastings-upon-Hudson, N. Y., assignor to The Barrett Company. Roof flashing. No. 1,428,457; Sept. 5.
- Sweny, Granville L., Piqua, Ohio. Antiskid device for shoes. No. 1,431,193; Oct. 10.
- Sweet, Arthur H., assignor to American Tag Company, Chicago, Ill. Making sticker fastenings. No. 1,406,300; Feb. 14.
- Sweet, Lyman R., Boston, Mass. Contribution envelope. No. 1,412,496; Apr. 11.
- Swezey, Benjamin F., Buffalo, Minn. Food. No. 1,416,588; May 16.
- Swick, Charles P., Waterbury, and F. O. Krantz, Oakville, assignors to American Ring Company, Waterbury, Conn. Making knobs. No. 1,407,960; Feb. 28.
- Swiers, Herman, Bejou, Minn. Tank and water heater. No. 1,433,755; Oct. 31.
- Swift, George M. (See Hallmark, Elmer C., assignor.)
- Swift, George W., Jr., Bordentown, N. J. Mechanism for applying window patches to envelope material. No. 1,404,068; Jan. 17.
- Swift, George W., Jr., Bordentown, N. J. Mechanism for scoring paper board, pasteboard, or fiber board. No. 1,408,486; Mar. 7.
- Swift, George W., Jr., Bordentown, N. J. Reinforced box blank material and manufacturing the same. No. 1,410,622; Mar. 28.
- Swift, George W., Jr., Bordentown, N. J. Reinforced blank material for the manufacture of paper boxes or containers. No. 1,425,914; Aug. 15.
- Swift, Harry, Webster, Mass. Device for drilling square holes. No. 1,408,042; Feb. 28.
- Swift, J. J. (See Howell, Chester A., assignor.)
- Swift, Jay H., Philadelphia, Pa. Band for engaging and holding the ends of the ribs of umbrellas when closed. No. 1,425,806; Aug. 15.
- Swift, Lewis B. (See Stalker, F. W., Taylor, and Swift.)
- Swift, Lewis B., assignor to Taylor Instrument Companies, Rochester, N. Y. Controlling mechanism. No. 1,420,348; June 20.
- Swift, Thomas J., Minneapolis, Minn. Bathtub. No. 1,426,519; Aug. 22.
- Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Drinking-cup holder. No. 1,411,388; Apr. 4.
- Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Picker mechanism for envelope machines and the like. No. 1,438,620; Dec. 12.
- Swift, William C., Cambridge, assignor to Standard Woven Fabric Company, Walpole, Mass. Making friction facings. No. 1,426,842; Aug. 22.
- Swift, Worthington. (See Lineaweaver, William C., assignor.)
- Swift & Company. (See Richardson, William D., assignor.)
- Swimmer, Robert, New York, N. Y. Electric lamp. No. 1,430,860; Oct. 3.
- Swindale, John W. (See Lee, H. W., and Swindale.)
- Swindell, Walter B., Jr., Baltimore, Md. Grinding machine. No. 1,402,911; Jan. 10.
- Swineford, John L., and T. J. Morgan, Scranton, Pa. Auto-wing air deflector. No. 1,437,276; Nov. 28.
- Swinehart, Benjamin C., Akron, Ohio. Cushion tire. No. 1,402,190; Jan. 3.
- Swinehart, Derland E., Missoula, Mont. Loading and unloading truck. No. 1,404,069; Jan. 17.
- Swinehart, James A., Akron, Ohio. Making vehicle tires. No. 1,426,927; Aug. 22.
- Swinehart, James A., Akron, Ohio. Tire cord and making same. No. 1,437,870; Dec. 5.
- Swinehart Tire & Rubber Company, The. (See Schrank, Fred J., assignor.)
- Swingle, Charles M., Cleveland, Ohio. Mesograph. No. 1,406,775; Feb. 14.
- Swingle, Charles W., Chicago, Ill. Flash light. No. 1,422,239; July 11.
- Swingrite Co., The. (See Davis, Henry K. B., jr., assignor.)
- Swink & Small. (See Gorlov, Svend, assignor.)
- Swink, Floyd, St. Louis, Mo. Tuning coil. No. 1,435,757; Nov. 14.
- Swint, Wendell R., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. High explosive. No. 1,411,674; Apr. 4.
- Swintek, Martin, Eddyville, Iowa. Traveling-screen nozzle. No. 1,426,616; Aug. 22.
- Swiss Ferment Company Limited. (See Jenny, G., and Jaek, assignors.)
- Swiss Machine-Tool Works, Oerlikon. (See Weiss, Albert, assignor.)
- Switzer, Harry A., Philadelphia, Pa. Flag retainer. No. 1,435,993; Nov. 21.
- Swoboda, Adolph R., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Rheostat. No. 1,436,212; Nov. 21.
- Swonger, William A., Trenton, N. J. Lever-carried latch-handle lock. No. 1,435,030; Nov. 7.
- Swope, John S., assignor of forty-five per cent to J. A. Scarsborough and twenty per cent to R. W. Wortham, Paris, Tex. Knee protector. No. 1,404,722; Jan. 24.
- Swope, John S., assignor of forty-five per cent to J. A. Scarsborough and twenty per cent to R. W. Wortham, Paris, Tex. Knee protector. No. 1,404,723; Jan. 24.
- Sworski, Stanley E., and F. F. Ratajczak, Minneapolis, Minn. Retort for gas-producing apparatus. No. 1,418,745; June 6.
- Swoyer, Harry. (See Blunt, J. G., and Swoyer.)
- Syers, Paul R., Indianapolis, Ind. Laundry-bag holder. No. 1,424,690; Aug. 1.
- Sykes, Adrian F., New Barnet, England. Production of sound records. No. 1,428,818; Sept. 12.
- Sykes, Adrian F., New Barnet, England. Manufacture of sound records. No. 1,428,819; Sept. 12.
- Sykes, George, San Francisco, assignor of one-half to T. B. Blackburn and one-half to C. F. Potter, Los Angeles County, Calif. Load bracing and ventilating device for vehicles. No. 1,421,612; July 4.
- Sykes, John P., Wallingford, and S. R. Limerick, assignors to The Baldwin Locomotive Works, Philadelphia, Pa. Jig for assembling locomotive frames. No. 1,425,296; Aug. 8.

Alphabetical list of patentees—Continued.

- Sykes, Leonard, Fort Wayne, Ind. Electrical heating appliance. No. 1,406,776; Feb. 14.
- Sykes, Wilfred, Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of ship propulsion. No. 1,425,615; Aug. 15.
- Sykora, Rudolf, Boston, Mass. Fluid-distributing nozzle. No. 1,409,259; Mar. 14.
- Sykora, Rudolf, Boston, Mass. Rotary pump. No. 1,430,602; Oct. 3.
- Sylvan, Joseph, Chicago, Ill. Ventilator. No. 1,410,623; Mar. 28.
- Sylvan, Joseph, Chicago, Ill. Ventilator. No. 1,410,624; Mar. 28.
- Sylvan, Joseph, Chicago, Ill. Ridge ventilator construction. No. 1,410,625; Mar. 28.
- Sylvan, Joseph, Cicero, Ill. Ventilating skylight. No. 1,427,175; Aug. 29.
- Sylvan, Joseph, Chicago, Ill. Ventilator. No. 1,432,135; Oct. 17.
- Sylvester, Frank A., Macon, Ga. Advertising device. No. 1,424,323; Aug. 1.
- Sylvester, John M., Rosemont, assignor to Bethlehem Steel Company, Bethlehem, Pa. Tubular forging and making the same. No. 1,437,690; Dec. 5.
- Sylvester, Seymour, Brooklyn, N. Y. Hand screw. No. 1,429,050; Sept. 12.
- Sylvester, Thomas J., Philadelphia, Pa. Game. No. 1,418,214; May 30.
- Syme, David M., assignor to Hydro-Carbon Burner Manufacturing Company, Newport, R. I. Hydrocarbon burner. No. 1,430,415; Sept. 26.
- Symington, T. H., Company, The. (See Anderson, Gustaf A., assignor.)
- Symington, T. H., The, Company. (See Barrows, Donald S., assignor.)
- Symington, T. H., Company, The. (See Kadel, Byers W., assignor.)
- Symington, T. H., Company, The. (See Symington, Thomas H., assignor.)
- Symington, T. H., Company, The. (See Weston, Arthur H., assignor.)
- Symington, T. H., Company, The. (See Wright, Ira O., assignor.)
- Symington, Thomas H., Rochester, assignor, by mesne assignments, to The T. H. Symington Company, New York, N. Y. Draft rigging. No. 1,409,039; Mar. 7.
- Symons Brothers Company. (See Symons, Edgar B., assignor.)
- Symons, Edgar B., Hollywood, assignor to Symons Brothers Company, Bakersfield, Calif. Process and apparatus for removing sand from wells. No. 1,432,425; Oct. 17.
- Symons, William L. (See Austin, Howard, assignor.)
- Symons, Wilson E., New York, N. Y. Shock-absorbing mechanism. No. 1,440,320; Dec. 26.
- Synthetic Hydro-Carbon Company. (See Rittman, Walter F., assignor.)
- Sypho-Chemical Sprinkler Corporation. (See Hamilton, John R., assignor.)
- Syrett, James F., Baltimore, Md. Heat-utilizing device. No. 1,417,215; May 23.
- Syrett, James F., Baltimore, Md. Dust shield. No. 1,424,324; Aug. 1.
- Syrstad, Louis K., Shelton, Wash. Combination swivel and bull hook. No. 1,426,520; Aug. 22.
- Szabo, Alex, Perth Amboy, N. J. Apparatus for use in shoeing horses. No. 1,420,349; June 20.
- Szabo, Joseph, New Castle, Pa. Digging implement. No. 1,427,865; Sept. 5.
- Szafka, Michael, Philadelphia, Pa. Swimming device. No. 1,411,540; Apr. 4.
- Szafarski, Casey, South Chicago, Ill. Valve lock. No. 1,412,720; Apr. 11.
- Szalai, Charles, Easton, Pa. Window lock. No. 1,432,640; Oct. 17.
- Szalay, Joseph, Vicksburg, Miss. Window latch. No. 1,424,048; July 25.
- Szarvasy, Emerich, Budapest, Hungary. Process to produce mixtures of hydrogen and nitrogen. No. 1,417,952; May 30.
- Szczepaniak, Walter J., Marche, Ark. Steering-wheel lock for automobiles. No. 1,438,068; Dec. 5.
- Szczepanik, Jan, Tarnow, Poland. Cinematograph. No. 1,423,697; July 25.
- Szczurek, Joe, Chicago Heights, Ill. Door opener for railways. No. 1,418,406; June 6.
- Szczurek, Joe, Chicago Heights, Ill. Extension steps. No. 1,419,992; June 20.
- Szemanske, Fasten, Parsons, Pa. Automatic mine-car-door opener. No. 1,414,760; May 2.
- Szepe, Joseph J., assignor to Keystone Die and Manufacturing Company, Pittsburgh, Pa. Toy gun. No. 1,403,719; Jan. 17.
- Szepe, Joseph J., assignor to Keystone Die and Manufacturing Company, Pittsburgh, Pa. Coin holder. No. 1,432,498; Oct. 17.
- Szilgethy, Joseph, Hamlerville, Ky. Shoe-buttoning device. No. 1,423,782; July 25.
- Szilgeth, John, Torrington, Conn. Ice-cracking box. No. 1,406,589; Feb. 14.
- Szucs, Gergely, New York, and L. Haberstrohn, jr., Lynbrook, N. Y. Shearing device for trimming hedges, shrubbery, etc. No. 1,434,858; Nov. 7.
- Szucs, Stephen, assignor of one-third to A. Dudas, Homestead, Pa. Spinning top. No. 1,419,651; June 13.
- Szule, Frank. (See Pasturczak, Walter, assignor.)
- Szylderowicz, Theodore, Shamokin, Pa. Vise. No. 1,406,102; Feb. 7.
- Szymanski, Franciszek, A. D. and P. Dudek, Ellsworth, Pa. Rail bolt. No. 1,437,871; Dec. 5.
- Szymanski, John A. and V. A., Detroit, Mich.; said John A. Szymanski assignor to said V. A. Szymanski. Paper-vending machine. No. 1,405,462; Feb. 7.
- Szymanski, Vincent A. (See Szymanski, John A., and V. A.)
- Szymkiewicz, Maciej, Jersey City, N. J. Utensil. No. 1,419,423; June 13.
- Szyperski, Edward V., Toledo, Ohio. Hose clamp. No. 1,406,242; Feb. 14.
- Szyslak, Blasius, Braddock, Pa. Stringed musical instrument. No. 1,420,784; June 27.
- T-Beam Engineering Company. (See Wells, Hewitt L., assignor.)
- T. A. C. Limited. (See Tacchi, Percy G., assignor.)
- T & K Industries, Ltd. (See Carney, James J., assignor.)
- Tabb, Warner T., New York, N. Y., assignor to The Safety Car Heating & Lighting Company. Signal apparatus. No. 1,424,859; Aug. 8.
- Taber, Arthur P., Red Wing, Minn. Battery box. No. 1,434,321; Oct. 31.
- Taber, Ezra W., Chicago, Ill. Farm tractor. No. 1,423,046; July 18.
- Taber-Prang Art Co. (See Cueny, Benjamin U., assignor.)
- Tabler, Frank C., St. Louis, Mo. Air-inlet device for internal-combustion engines. No. 1,402,110; Jan. 3.
- Tabler, John H., Washington, D. C. Belt fastener. No. 1,420,588; June 20.
- Tabler, John H., Washington, D. C. Fan-belt connection. No. 1,411,595; Apr. 4.
- Tabor, Benjamin C., Ashland, Oreg. Inhaler. No. 1,418,182; May 30.
- Tabor, Clinton D., Huntington, assignor of one-half to H. I. Sorensen, New York, N. Y. Elevating pivot fixture. No. 1,431,060; Oct. 3.
- Tabor, Luri, Detroit, assignor of forty-one per cent to E. H. Baker, Royal Oak, Mich. Silo door. No. 1,403,459; Jan. 10.
- Tabor, Robert E., assignor to Cinderella Heel Corporation, St. Louis, Mo. Heel. No. 1,409,615; Mar. 14.
- Tabourin, Pierre J., Paris, France. Process and apparatus for the manufacture of molded or cast articles of cement and iron filaments. No. 1,433,045; Oct. 24.
- Tabucchi, Dario, Nice, France. Dough press. No. 1,420,066; June 20.
- Tabulating Machine Company, The. (See Page, Ralph E., assignor.)
- Tacchi, Percy G., Acton, London, assignor to T. A. C. Limited, Hanwell, England. Variable-speed gear. No. 1,408,421; Feb. 28.
- Tacchi, Percy G., London, assignor to T. A. C. Limited, Hanwell, England. Vehicle spring. No. 1,433,246; Oct. 24.
- Tackaberry, Robert D., Lewiston, Me. Apparatus for handling cloth and other sheet material. No. 1,412,980; Apr. 18.
- Tackenberg, William, Cincinnati, Ohio. Building block. No. 1,422,146; July 11.
- Taconelli, Alexander. (See Browne, Hugh M., assignor.)
- Taddeo, Luigi, Cleveland, Ohio. Fountain pen. No. 1,409,616; Mar. 14.
- Taddeo, Luigi, Cleveland, Ohio. Fountain pen. No. 1,409,617; Mar. 14.
- Taffe, Leo, Chicago, Ill. Door buffer. No. 1,437,922; Dec. 5.
- Taft-Peirce Manufacturing Company, The. (See Bryant, E. J., and Johnson, assignors.)
- Taft-Peirce Manufacturing Co., The. (See Simmons, Frank L., assignor.)
- Taggart Brothers Company. (See Taggart, Joseph W., assignor.)
- Taggart, Eugene B., Indiana, Pa. Rail clamp. No. 1,425,915; Aug. 15.
- Taggart, George H., Port Washington, N. Y. Nonset automatic stop for phonographs. No. 1,417,586; May 30.
- Taggart, Joseph W., assignor to Taggart Brothers Company, Watertown, N. Y. Paper-bag press. No. 1,432,426; Oct. 17.
- Tagliabue, Charles J., Manufacturing Co. (See Milker, Herbert P., assignor.)
- Tagliabue, Charles J., Manufacturing Co. (See Roesch, Alfred, assignor.)
- Tagliaferry, Orestes, Cincinnati, Ohio. Nonskidding device for shoes. No. 1,429,259; Sept. 19.
- Tagne, Peter, Smithfield, Pa. Automatic lock for train-pipe angle cocks. No. 1,410,849; Mar. 28.
- Talman, Max, New York, N. Y. Electrically-controlled transmission. No. 1,405,640; Feb. 7.
- Taillardat, Michel, Clichy, France. Floor. No. 1,434,756; Nov. 7.
- Taillefer, Joseph H., Rigaud, Quebec, Canada. Locking device. No. 1,437,923; Dec. 5.
- Taisey, Fred R., Lowell, assignor, by mesne assignments, to The Lamson Company, Boston, Mass. Conveyor. No. 1,437,784; Dec. 5.
- Tait, Frederick L., Vancouver, British Columbia, Canada. Pocket brush and comb. No. 1,413,810; Apr. 25.

Alphabetical list of patentees—Continued.

- Tait, Joseph, Birmingham, England. Manufacture of swivel or universal hooks. No. 1,404,807; Jan. 31.
- Tait, Robert W., New York, N. Y. Combined knob and dial for radio apparatus. No. 1,420,295; June 20.
- Tait, Walter A., and R. T. Giles, Chicago, Ill. Folding camp stove. No. 1,438,345; Dec. 12.
- Takamine, Jokichi, Jr., Clifton, N. J. Making beverages. No. 1,412,378; Apr. 11.
- Takamine, Jokichi, New York, N. Y., and Jokichi, Jr., Clifton, N. J. Treating textile and other fabrics, thread, yarn, and the like. No. 1,421,613; July 4.
- Takamine, Jokichi, Jr. (See Takamine, Jokichi and J. J., Jr.)
- Takasago Gomu Kabushiki Kwaisha. (See Takashima, Kingo, assignor.)
- Takashima, Kingo, assignor to Takasago Gomu Kabushiki Kwaisha, Tokyo-Fu, Japan. Making sponge balls. No. 1,402,682; Jan. 3.
- Taketoshi, Chobey, San Francisco, Calif. Game. No. 1,433,919; Oct. 31.
- Taki, Rokujiro, Shizuoka-Ken, Japan. Manufacture of lime sulphur. No. 1,434,266; Oct. 31.
- Takuma, Tsunekichi, Kobe, assignor to Kisha-Seizo Kabushiki-kaisha, Nishi-ku, Osaka, Japan. Steam generator. No. 1,435,032; Nov. 7.
- Talbert, Charles S., Long Beach, Calif. Wave motor. No. 1,439,984; Dec. 26.
- Talbert, Mark L., Spencer, N. C. Heating stove. No. 1,413,141; Apr. 18.
- Talbot, Howard H. (See Woodard, L. A., and Talbot.)
- Talbot, Howard H., Wooster, Ohio, assignor, by mesne assignments, to Mackintosh-Hemphill Company, Pittsburgh, Pa. Rolling-mill drive. No. 1,439,341; Dec. 19.
- Talbot, James W., Giltner, Nebr. Supporting cleat for scoop boards. No. 1,410,137; Mar. 21.
- Talbot, John, Dulverton, England. Cultivator. No. 1,409,618; Mar. 14.
- Talbot, Mary L. (See Prehm, Martin, assignor.)
- Talbott, Arthur L., Des Moines, Iowa. Support for pencil sharpeners. No. 1,420,589; June 20.
- Talbott, Louise B., Augusta, Ga. Steam baker. No. 1,406,777; Feb. 14.
- Talbott, Orren H., New Plymouth, Idaho. Water gate. No. 1,438,873; Dec. 12.
- Talbott, Orren H., New Plymouth, Idaho. Water gate. No. 1,438,874; Dec. 12.
- Talcott, Morris G., Talcottville, Conn. Oil burner. No. 1,430,337; Sept. 26.
- Taliaferro, Thomas L., Chicago, Ill. Vacuum capping machine. No. 1,403,879; Jan. 17.
- Taliaferro, Thomas L., Chicago, Ill. Bottle closure. No. 1,425,349; Aug. 8.
- Taliaferro, Thomas L., Chicago, Ill. Hermetic seal for containers. No. 1,427,133; Aug. 29.
- Taliaferro, Thomas L., Chicago, Ill. Forming sealing members for containers. No. 1,427,134; Aug. 29.
- Taliaferro, Thomas L., Chicago, Ill., assignor to Phoenix Hermetic Company, Brooklyn, N. Y. Jar-closing machine. No. 1,407,901; Feb. 28.
- Talianoff, Morris, Brooklyn, N. Y. Combination romper dress. No. 1,405,694; Feb. 7.
- Tallerday, Howard G., San Francisco, Calif., assignor to Western Pipe and Steel Company of California. Ice can. No. 1,423,278; July 18.
- Talley, William A. (See Finch, J. W., and Talley.)
- Tallman, Albert R., Nashville, Tenn. Combination fountain pen and pencil. No. 1,417,642; May 30.
- Tallman, Albert R., assignor of one-fourth to H. Harsh, one-fourth to R. L. Lewis, and one-fourth to N. T. Lewis, Nashville, Tenn. Gas cock. No. 1,437,369; Nov. 28.
- Tallman, Malcolm H., Astoria, N. Y. Ocular testing chart. No. 1,412,902; Apr. 18.
- Tallman, Zach D., Oakland, Calif. Collapsible knockdown camp stove. No. 1,411,596; Apr. 4.
- Talmage, John G., Cleveland, Ohio, assignor to H. B. Thurston, Pittsburgh, Pa. Low-water alarm. No. 1,405,953; Feb. 7.
- Talotta, Carmine, Cementon, Pa. Bag-dusting machine. No. 1,409,499; Mar. 14.
- Talty, Thomas L., Boston, Mass. Tube-forming die. No. 1,403,460; Jan. 10.
- Tamberlin, John, assignor to The George W. Blabon Company, Philadelphia, Pa. Mechanism for making linoleum. No. 1,437,872; Dec. 5.
- Tamblyn, Milton J. (See La Ganke, H. C., and Tamblyn.)
- Tamburini, Matteo, Paterson, N. J. Vehicle steering lock. No. 1,436,416; Nov. 21.
- Tampier, René J., C. B., Boulogne-sur-Seine, France. Control hand lever with braked motion. No. 1,406,103; Feb. 7.
- Tamplin, James G., Dayton, Ohio. Shock-absorber wheel. No. 1,432,805; Oct. 24.
- Tamura, Shinkichi, Kobe, and M. Watanabe, Tokyo, Japan, said Watanabe assignor to said Tamura. Internal-combustion engine. No. 1,402,111; Jan. 3.
- Tanberg, Arthur P., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Manufacturing di-phenylamine. No. 1,422,494; July 11.
- Tanberg, Arthur P., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing tetra-substituted ureas. No. 1,437,027; Nov. 28.
- Tandy, John, Butte, Mont. Damper. No. 1,410,138; Mar. 21.
- Tang, Bernhard, Schenectady, N. Y., assignor to General Electric Company. Electric furnace. No. 1,430,861; Oct. 3.
- Tang, Min-Kao, Wilkesburg, Pa. Slide rule. No. 1,411,541; Apr. 4.
- Tangerman, William J., Hammond, Ill. Uncoupling device. No. 1,404,806; Jan. 31.
- Tangerman, William J., Hammond, Ind. Car bolster. No. 1,412,071; Apr. 11.
- Tani, Mango, Coney Island, N. Y. Cleaning material. No. 1,405,243; Feb. 14.
- Tani, Salvatore. (See Giandalia, Salvatore, assignor.)
- Tannenbaum, Manis, Chicago, Ill. Hand bag construction. No. 1,430,768; Oct. 3.
- Tanner, Arnold J. (See Bassett, H. S., and Tanner.)
- Tanner, Arnold J., North Haven, Conn. Pocketknife and the like. No. 1,413,633; Apr. 25.
- Tanner, Arnold J., North Haven, Conn., assignor to Johnson Fare Box Company, Chicago, Ill. Ticket system and means therefor. No. 1,413,631; Apr. 25.
- Tanner, Arnold J., North Haven, Conn., assignor to Johnson Fare Box Company, Chicago, Ill. Ticket or fare box. No. 1,413,632; Apr. 25.
- Tanner, Arnold J., North Haven, Conn., assignor to Johnson Fare Box Company, Chicago, Ill. Ticket system and means therefor. No. 1,413,634; Apr. 25.
- Tanner, Charles L., Merton, England. Typewriter. No. 1,409,620; Mar. 14.
- Tanner, Daniel R., Le Grande, Oreg. Device for manipulating cotter pins. No. 1,417,868; May 30.
- Tanner, De Witt C., Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. System for electrical signaling. No. 1,416,077; May 16.
- Tanner Engineering Company, The. (See Tanner, Harry L., assignor.)
- Tanner, Harry L., Brooklyn, N. Y. Transmission system for automobiles. No. 1,424,860; Aug. 8.
- Tanner, Harry L., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Damping means for gyroscopes. No. 1,405,807; Feb. 7.
- Tanner, Harry L., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Correction device for gyrocompasses. No. 1,412,760; Apr. 11.
- Tanner, Harry L., assignor to The Tanner Engineering Company, Inc., Brooklyn, N. Y. Speed-of-rotation indicators. No. 1,434,799; Nov. 7.
- Tanner, Inos B., assignor to Jos. E. Nelson & Sons, Chicago, Ill. Liquid-treating apparatus. No. 1,407,499; Feb. 21.
- Tanner, John L., Dallas, Tex. Drafting implement. No. 1,402,269; Jan. 3.
- Tanner, William F., Baltimore, Md. Auto lock and alarm switch. No. 1,437,998; Dec. 5.
- Tanomura, Genji, Tokyo, Japan. Drawn pipe and stretching same. No. 1,415,415; May 9.
- Tanski, Stanly, East Vandergrift, Pa. Lock. No. 1,409,429; Mar. 14.
- Tant, Walter F., et al. (See Gore, William M., assignor.)
- Tantila, Hjalmar, Chicago, Ill., and J. Sorola, Crosby, Minn., assignors of one-third to P. Holappa, Chicago, Ill. Railway switch. No. 1,427,563; Aug. 29.
- Taplin, George C., Brookline, Mass. Operating table. No. 1,437,568; Dec. 5.
- Taplin, Neal W., Grand Rapids, Mich. Furnace. No. 1,438,409; Dec. 12.
- Taplin, Thomas J., jr. (See Sulman, H. L., Taplin, Perkins, and Picard.)
- Tarbox, Gurdon L., Plainfield, assignor to Spicer Mfg. Corporation, South Plainfield, N. J. Flexible coupling. No. 1,425,616; Aug. 15.
- Tarbox, John P., Garden City, N. Y., assignor to Tarbox Safety Aircraft Company. Transverse axis aileron. No. 1,423,166; July 18.
- Tarbox, John P., Garden City, N. Y., assignor to Tarbox Safety Aircraft Company. Vertical axis aileron. No. 1,423,167; July 18.
- Tarbox Safety Aircraft Company. (See Tarbox, John P., assignor.)
- Tarbutton, Homer. (See Strong, Elmer, and Tarbutton.)
- Tardif, Omeril, assignor to La Fonderie de Plessisville, Plessisville, Quebec, Canada. Sawing machine. No. 1,431,434; Oct. 10.
- Tark, Marcus B., Philadelphia, Pa., assignor to Pacific Flush Tank Company, Chicago, Ill. Filtration apparatus. No. 1,418,687; June 6.
- Tarka, Albin. (See Otremba, Frank, assignor.)
- Tarket, Charles L., Waterbury, Conn. Line or cable union. No. 1,409,430; Mar. 14.
- Tarner, John R., Sparks, Nev. Snap hook. No. 1,406,911; Feb. 14.
- Tarras, Harry M. (See Gaskin, R. J., and Tarras.)
- Tartara, Giuseppe G. B., Turin, Italy. Photographic and cinematographic apparatus. No. 1,407,357; Feb. 21.
- Tartara, Giuseppe G. B., Turin, Italy. Photographic camera. No. 1,413,947; Apr. 25.
- Tarte, James A., Blaine, Wash. Deflecting damper for pipeless furnaces. No. 1,418,988; June 6.
- Tartrais, Eugène H., Maisons-Laffite, France. Explosion engine working under injection of liquid fuel. No. 1,414,384; May 2.

- Tartrals, Eugène H., Maisons-Laffitte, France. Combustion chamber for internal-combustion engines. No. 1,419,702; June 13.
- Tarvin, William L., Rome, Ga. Spark arrester. No. 1,430,475; Sept. 26.
- Tasca, Attilio E., East Providence, R. I. Combination safety razor and stropper. No. 1,436,213; Nov. 21.
- Tashima, Joe, San Francisco, Calif. Alembic combined distilling and sterilizing attachment for kettles. No. 1,432,136; Oct. 17.
- Tashjian, Armen H., Cleveland, Ohio. Combined conduit, junction box, and outlet box. No. 1,437,324; Nov. 28.
- Tasker, John W. (See Murray, R. T., and Tasker.)
- Tasso, Charles, and H. B. Daly, New York, N. Y. Gasket. No. 1,424,691; Aug. 1.
- Tate, Alfred O., New York, N. Y. Electrode. No. 1,432,220; Oct. 17.
- Tate, Edward H., Malden, Mass. Mop head. No. 1,406,244; Feb. 14.
- Tate, John L., Chester, Pa. Steam engine. No. 1,406,700; Feb. 14.
- Tate-Jones & Co. (See Buell, W. C. Jr., and Scheib, assignors.)
- Tate, Samuel G., assignor to Union Special Machine Company, Chicago, Ill. Concealed blindstitched binding. No. 1,403,135; Jan. 10.
- Tate, William, High Point, N. C. Attachment for shaping machines. No. 1,435,758; Nov. 14.
- Tate, William R., Ripponlea, near Melbourne, Victoria, Australia. Appliance for delivering gaseous liquids. No. 1,412,321; Apr. 11.
- Tatschke, Edward, Berlin, Germany. Lubricator. No. 1,417,216; May 23.
- Tatum, John J., Baltimore, Md. Metal car diaphragm and faceplate safety guard. No. 1,431,707; Oct. 10.
- Tatum, Samuel C., Company, The. (See Carpenter, Charles C., assignor.)
- Taubman, Herman, Sturgeon Bay, Wis. Garment hanger. No. 1,421,614; July 4.
- Tauchar, Auton, Dunlo, Pa. Railway track construction. No. 1,422,010; July 4.
- Taussig, Emil, et al. (See Taussig, Gottlieb, assignor.)
- Taussig, Gottlieb, assignor to V. Taussig and E. Taussig, New York, N. Y. Exhibiting machine. No. 1,411,759; Apr. 4.
- Taussig, John H., assignor to The United Gas Improvement Company, Philadelphia, Pa. Alarm-signal system for automatic water-gas-set controls. No. 1,434,072; Oct. 31.
- Taussig, Valerie, et al. (See Taussig, Gottlieb, assignor.)
- Taute, Albert L., Mora, Minn. Radiator. No. 1,420,590; June 20.
- Tavelli, John, Portland, Oreg. Automobile body. No. 1,410,139; Mar. 21.
- Taylor, Aca C., Kellyville, Okla. Resilient wheel. No. 1,416,078; May 16.
- Taylor, Albert H., Grand Forks, N. Dak., and L. C. Young, Van Wert, Ohio. Receiving radiosignals with the compound heterodyne. No. 1,414,232; Apr. 25.
- Taylor, Albertis C., Warren, Ohio. Electrically welding in series. No. 1,435,994; Nov. 21.
- Taylor, Albertis C., Warren, Ohio. Electric resistance welding. No. 1,435,995; Nov. 21.
- Taylor, Albertis C., Warren, Ohio. Electric resistance welding. No. 1,435,996; Nov. 21.
- Taylor, Alfred. (See Gray, Percy W., assignor.)
- Taylor, Alfred. (See Taylor, Harold D., assignor.)
- Taylor, Alfred and H. D., and P. W. Gray, York, England. Indirect-vision range finder and the like instrument. No. 1,429,981; Sept. 26.
- Taylor, Arthur A., and H. J. Schatz, Omaha, Nebr. Combined fire and emergency alarm. No. 1,438,756; Oct. 31.
- Taylor, Arthur B., Newark, N. J., assignor to Baker & Company, Inc. Self-loading magazine pencil. No. 1,433,574; Oct. 31.
- Taylor, Arthur K., Baltimore, Md., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,409,619; Mar. 14.
- Taylor, Arthur O. S., Billings, Mont. Grinding mechanism. No. 1,422,635; July 11.
- Taylor, Augustus. (See Beal, Ralph R., assignor.)
- Taylor, Augustus. (See Fuller, Leonard F., assignor.)
- Taylor, Bayard E., Oak Park, Ill. Automobile door lock. No. 1,417,423; May 23.
- Taylor, Bayard E., Oak Park, Ill. Latch for automobile doors. No. 1,425,552; Aug. 15.
- Taylor, Boone U., Nashville, Tenn., assignor to one-half to J. H. Campbell, C. A. Nelson, H. C. Moore, Jr., and A. D. McKnight, Murfreesboro, Tenn. Engine starter. No. 1,415,962; May 16.
- Taylor, Buel, Odenville, Ala. Sirup boiling and skimming apparatus. No. 1,421,108; June 27.
- Taylor, Burt E., Mount Vernon, assignor to one-third to S. F. Taylor, New York, and one-third to W. H. Howard, Portchester, N. Y. Sealing device for jars. No. 1,407,008; Feb. 21.
- Taylor, Cecil H., and B. B. Neuteboom, Detroit, Mich. Transmission gear. No. 1,433,575; Oct. 31.
- Taylor, Charles B., Winona Lake, Ind. Corner reinforcement for cartons. No. 1,425,069; Aug. 8.
- Taylor, Charles C., et al. (See Taylor, Owen, assignor.)
- Taylor, Clarence, Newport, R. I. Pin. No. 1,414,601; May 2.
- Taylor, Clarence, Newport, R. I. Pneumatic-tire protector. No. 1,420,392; June 20.
- Taylor, Clarence E., Danville, Ill. Railway tie. No. 1,432,922; Oct. 24.
- Taylor, Clarence L., assignor to The Morgan Engineering Company, Alliance, Ohio. Method of and apparatus for straightening rolled endless billets. No. 1,420,785; June 27.
- Taylor, Edward C., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Treating rubber articles. No. 1,422,147; July 11.
- Taylor, Edward G., Madison, Wis. Dishpan. No. 1,423,548; July 25.
- Taylor, Edward M. (See Peirce, T. W., Owens, and Taylor.)
- Taylor, Edwin H., St. Edward, Nebr. Can tongs. No. 1,439,202; Dec. 19.
- Taylor Electric Truck Co. (See Taylor, John, assignor.)
- Taylor, Emma H., et al. (See Taylor, Percy B., assignor.)
- Taylor, Emma H., executrix. (See Taylor, Percy B.)
- Taylor, Eugene H., deceased, by G. A. Taylor, administrator, assignor to John T. Robinson Company, Boston, Mass. Label-applying machine. No. 1,403,720; Jan. 17.
- Taylor, Floyd T., Matawan, assignor to A. P. Munning & Co., Newark, N. J. Conveying mechanism. No. 1,434,859; Nov. 7.
- Taylor, Frank M., Sioux City, Iowa, assignor to T. C. Brennan, Newcastle, and M. W. Brennan, Wynot, Nebr. Polishing composition. No. 1,410,041; Mar. 21.
- Taylor, Frank R. (See Keeran, C. R., and Taylor.)
- Taylor, Fred K. (See Stalker, F. W., Taylor, and Swift.)
- Taylor, Frederick W., Salisbury, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Tack-handling mechanism. No. 1,425,553; Aug. 15.
- Taylor, George A., administrator. (See Taylor, Eugene H.)
- Taylor, George A., Weehawken, N. J., assignor to National Biscuit Company, New York, N. Y. Display rack. No. 1,423,585; July 25.
- Taylor, George B., Belfast, Ireland. Box, folder, and like container. No. 1,425,720; Aug. 15.
- Taylor, George N., East Providence, R. I., assignor to Universal Winding Company, Boston, Mass. Tension device and yarn cleaner. No. 1,424,124; July 25.
- Taylor, George N., East Providence, R. I., assignor to Universal Winding Company, Boston, Mass. Traverse motion for winding machines. No. 1,427,035; Aug. 22.
- Taylor, Georgia C., Charlotte, N. C. Coating composition. No. 1,431,269; Oct. 10.
- Taylor, Harold D. (See Taylor, Alfred and H. D., and Gray.)
- Taylor, Harold D., assignor to one-half to A. Taylor, Bishopshill, York, England. Short-base range finder. No. 1,421,321; June 27.
- Taylor, Harold D., assignor to one-half to A. Taylor, York, England. Range-finding and the like instrument. No. 1,424,125; July 25.
- Taylor, Harry F. (See Meredith, Oscar G., assignor.)
- Taylor, Harry P., Los Angeles, Calif. Mill. No. 1,414,602; May 2.
- Taylor, Harry P., Los Angeles, Calif. Mill. No. 1,414,603; May 2.
- Taylor, Harry P., Los Angeles, Calif. Theft-preventing alarm and locking means for automobiles. No. 1,403,275; Jan. 10.
- Taylor, Henry H. (See Hammond, M. B., and Taylor.)
- Taylor, Henry W., Bilton, England, assignor to General Electric Company. Dynamo electric machine. No. 1,430,863; Oct. 3.
- Taylor, Henry W., Bilton, F. H. Clough, Hillmorton, and P. F. Whitaker, Rugby, England, assignors to General Electric Company. Dynamo-electric machine. No. 1,430,862; Oct. 3.
- Taylor, Herbert A., Sheffield, Ala. Retainer for lightning rods or ground-wires. No. 1,416,525; May 16.
- Taylor, Herbert B., et al. (See Taylor, Percy B., assignor.)
- Taylor, Herbert C., Greensburg, Ind. Oven. No. 1,428,867; Sept. 12.
- Taylor, Herman W., Athens, Pa. Collapsible stove. No. 1,404,808; Jan. 31.
- Taylor, Horace H., Oakland, Calif. Pump. No. 1,410,520; Mar. 21.
- Taylor, Horace V. S., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Starting system for automobiles. No. 1,403,356; Jan. 10.
- Taylor, Hubert W., Frederick, Okla. Cotton picker. No. 1,423,472; July 18.
- Taylor, Hugh A., Mandon, N. Dak. Stock feeder. No. 1,435,188; Nov. 14.
- Taylor, Hugh S., Princeton, N. J., and E. K. Rideal, Urbana, Ill. Generating hydrogen. No. 1,411,760; Apr. 4.
- Taylor Instrument Companies. (See Brown, Henry B., assignor.)
- Taylor Instrument Companies. (See Norwood, Harry Y., assignor.)
- Taylor Instrument Companies. (See Stalker, F. W., Taylor, and Swift, assignors.)
- Taylor Instrument Companies. (See Swift, Lewis B., assignor.)
- Taylor Instrument Companies. (See Worner, George R., assignor.)
- Taylor, Isaac C., Quinton, Okla. Gas-pressure regulator. No. 1,411,228; Mar. 28.

Alphabetical list of patentees—Continued.

- Taylor, Jack E. (See McIlrath, G. W., and Taylor.)
- Taylor, James A., New York, N. Y. Mud guard for vehicles. No. 1,434,929; Nov. 7.
- Taylor, James A., Galt, Ontario, Canada. Ladder. No. 1,437,697; Dec. 5.
- Taylor, James A., Glen Ridge Borough, N. J. Brace for rivet-driving tools. No. 1,439,342; Dec. 19.
- Taylor, James A., Glen Ridge, N. J. Rivet brace. No. 1,439,343; Dec. 19.
- Taylor, James H., Owensboro, Ky. Dental surgical instrument. No. 1,405,353; Jan. 31.
- Taylor, James H., Owensboro, Ky. Dental surgical instrument. No. 1,405,354; Jan. 31.
- Taylor, James H., Pawtucket, R. I. Shock absorber for motor vehicles. No. 1,438,507; Dec. 12.
- Taylor, James H., and E. F. La Fray, Detroit, Mich. Electrical-control railway gate. No. 1,419,424; June 13.
- Taylor, Jason C., Los Angeles, Calif. Sand delivery device for vehicles. No. 1,421,745; July 4.
- Taylor, John, Pocatello, Idaho. Steam generator. No. 1,427,176; Aug. 29.
- Taylor, John, Brooklyn, N. Y. Method and apparatus for installing bolts or the like. No. 1,433,429; Oct. 24.
- Taylor, John, Albany, assignor to Taylor Electric Truck Co., Troy, N. Y. Car brake. No. 1,415,730; May 9.
- Taylor, John A., San Francisco, Calif. Toy-figure group. No. 1,434,930; Nov. 7.
- Taylor, John B., Schenectady, N. Y. Signaling system. No. 1,410,626; Mar. 28.
- Taylor, John G., and H. Stoker, Lovelock, Nev. Attachment for hay loaders. No. 1,405,808; Feb. 7.
- Taylor, John L. (See Owens, W. H., and Taylor.)
- Taylor, John M., Ardmore, Pa., assignor to Diamond State Fibre Company, Elsmere, Del. Laminated fiber product and making the same. No. 1,418,891; June 6.
- Taylor, John M., Ardmore, Pa., assignor to Diamond State Fibre Company, Elsmere, Del. Gear material. No. 1,438,875; Dec. 12.
- Taylor, John W., and J. W. Osborne, Winchester, Ill.; said Osborne assignor of one-half of his entire right to W. E. Taylor, Winchester, Ill. Automatic hog-oiling device. No. 1,438,410; Dec. 12.
- Taylor, Joseph H., assignor of one-third to M. G. Ross and M. E. Meredith, Mellen, Wis. Inner tube. No. 1,427,036; Aug. 22.
- Taylor, Leslie W., Ulverston, England. Folding carriage. No. 1,438,466; Dec. 12.
- Taylor, Lewis H., et al. (See Bair, Joseph H., assignor.)
- Taylor, Lucinda. (See Taylor, Roland B. and L.)
- Taylor Machinery Company. (See Taylor, Thomas I., assignor.)
- Taylor-Mayhew Pump Co. (See Cook, Alfred B., assignor.)
- Taylor, Owen, assignor of one-third to C. C. Taylor and one-third to D. Boone, Huntington, W. Va. Fireplace. No. 1,411,132; Mar. 28.
- Taylor, Percy B., deceased, Newark; E. H. Taylor, executrix, assignor of one-half to said E. H. Taylor and one-half to H. B. Taylor, Westfield, N. J. Clutch. No. 1,434,970; Nov. 7.
- Taylor, Peter, Ottumwa, Iowa. Tool. No. 1,424,861; Aug. 8.
- Taylor, Ray, assignor of one-half to G. I. Keener, Weston, W. Va. Water-circulating system. No. 1,412,981; Apr. 18.
- Taylor, Richard H., Detroit, Mich., assignor to Societe du Carburateur Zenith, Lyon, France. Carburetor. No. 1,419,993; June 20.
- Taylor, Richard R. (See Randall, C. J., and Taylor.)
- Taylor, Robert. (See Rontey, P. A., and Taylor.)
- Taylor, Robert, Oldham, England. Reversing gear particularly applicable to carding engines. No. 1,410,966; Mar. 28.
- Taylor, Robert, Oldham, England. Combing machine. No. 1,424,692; Aug. 1.
- Taylor, Robert H. (See Rosener, L. S., and Taylor.)
- Taylor, Robert R., et al. (See Scruby, George E., assignor.)
- Taylor, Robert S., Seattle, Wash. Expandible lap. No. 1,428,126; Sept. 5.
- Taylor, Roland B. and L. Melville, Saskatchewan, Canada. Folder for prescription blanks. No. 1,423,473; July 18.
- Taylor, Roy W., Chicago, Ill. Battery container. No. 1,425,721; Aug. 15.
- Taylor, S. Frederic, et al. (See Taylor, Burt E., assignor.)
- Taylor, Samuel. (See Jarry, Frederick, assignor.)
- Taylor, Samuel, and F. Jarry, New Bedford, Mass. Tension device for spooling machines. No. 1,422,240; July 11.
- Taylor, Samuel W., assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Packaging apparatus. No. 1,434,415; Nov. 7.
- Taylor, Sherman, Wymore, Nebr. Door. No. 1,426,424; Aug. 22.
- Taylor, Sidney, assignor to E. P. Monroe, Galion, Ohio. Fastener for vault closures. No. 1,429,116; Sept. 12.
- Taylor, Sidney, assignor to E. P. Monroe, Galion, Ohio. Lock for grave-vault closures. No. 1,433,430; Oct. 24.
- Taylor, Sydney E., Westcliff-on-Sea, F. O. Ellis, Southend, and E. T. Arche, Leigh, England. Sparking plug. No. 1,416,907; May 23.
- Taylor, Thomas D., Philadelphia, Pa. Combination display and vending cabinet. No. 1,414,160; Apr. 25.
- Taylor, Thomas I., Newton, assignor to Taylor Machinery Company, Boston, Mass. Water gauge for automobile radiators. No. 1,421,615; July 4.
- Taylor, Thomas P., Co., The. (See Hammond, M. B., and Taylor, assignors.)
- Taylor, Vance B., St. Louis, Mo. Interlocking tile. No. 1,415,906; May 16.
- Taylor, Walter R., Chicago, Ill. Oil burner. No. 1,431,061; Oct. 3.
- Taylor-Wharton Iron and Steel Company. (See Devlin, John T., assignor.)
- Taylor-Wharton Iron and Steel Company. (See Hall, J. H., and Jordan, assignors.)
- Taylor-Wharton Iron and Steel Company. (See Hanks, G. R., and Somerville, assignors.)
- Taylor-Wharton Iron and Steel Company. (See Hanks, George R., assignor.)
- Taylor-Wharton Iron and Steel Company. (See Mayer, Waldemar F., assignor.)
- Taylor-Wharton Iron and Steel Company. (See Seyms, Robert W., assignor.)
- Taylor-Wharton Iron and Steel Company. (See Summers, Mark L., assignor.)
- Taylor-Wharton Iron and Steel Company. (See Van Buskirk, L. W., and Porter, assignors.)
- Taylor White, Extracting Company. (See Felder, William A., assignor.)
- Taylor, William. (See Frank, William, assignor.)
- Taylor, William. (See Teahen, J. M., and Taylor.)
- Taylor, William, Leicester, England. Method of and appliance for polishing glass and the like substances. No. 1,409,888; Mar. 14.
- Taylor, William, Leicester, England. Apparatus for grinding spherical surfaces. No. 1,431,194; Oct. 10.
- Taylor, William, Leicester, England. Grinding machine. No. 1,432,093; Oct. 17.
- Taylor, William, Leicester, England. Belt fastener. No. 1,435,347; Nov. 14.
- Taylor, William A., et al. (See Clark, Melville, assignor.)
- Taylor, William A., Winnipeg, Manitoba, Canada. Film-drying appliance. No. 1,407,961; Feb. 28.
- Taylor, William A., Detroit, Mich. Automobile alarm. No. 1,417,217; May 23.
- Taylor, William C. (See Sullivan, E. C., and Taylor.)
- Taylor, William C., assignor to Corning Glass Works, Corning, N. Y. Glass. No. 1,411,134; Mar. 28.
- Taylor, William C., assignor to Corning Glass Works, Corning, N. Y. Glass. No. 1,414,715; May 2.
- Taylor, William C., and H. P. Gage, assignors to Corning Glass Works, Corning, N. Y. Glass. No. 1,411,133; Mar. 28.
- Taylor, William D., Bessemer, Ala. Sign. No. 1,412,147; Apr. 11.
- Taylor, William E. (See Taylor, J. W., and Osborne, assignors.)
- Taylor, William E., New York, N. Y. Printer's slug and rule. No. 1,406,104; Feb. 7.
- Taylor, William E., East Orange, N. J., assignor to American Can Company, New York, N. Y. Machine for filling and closing cans. No. 1,416,997; May 23.
- Taylor, William H., Anna, Ill. Truck. No. 1,407,235; Feb. 21.
- Taylor, William H., Fort Thomas, Ky., assignor to one-half to The Val Duttonhofer Sons, Company, Cincinnati, Ohio. Manufacture of turned shoes. No. 1,408,043; Feb. 28.
- Taylor, William H., Ford City, Pa., assignor to Pittsburgh Plate Glass Company. Mirror construction. No. 1,434,860; Nov. 7.
- Taylor, William O. (See Howie, K., and Taylor.)
- Taylor, Willie, Farsley, near Leeds, England. Fire-extinguishing apparatus for cinematographs. No. 1,429,548; Sept. 19.
- Taylor, Wilson, Toronto, Ontario, Canada. Preventing the water-logging of nonresinous woods. No. 1,435,031; Nov. 7.
- Taylor-Wilson Manufacturing Company. (See Wilson, Edgar H., assignor.)
- Taylor, Wordsworth and Company. (See Mazzetti, Henry R., assignor.)
- Teahen, James M., Detroit, Mich., and W. Taylor, Ford, Ontario, Canada; said Taylor assignor to said Teahen. Water closet. No. 1,419,328; June 13.
- Teagle Company, The. (See Le Pontois, Leon J., assignor.)
- Teagle Company, The. (See Milton, John L., assignor.)
- Teal, Abraham, Frankford, Pa. Loom. No. 1,404,170; Jan. 17.
- Teasdale, George W., St. Louis, Mo. Internal-combustion engine. No. 1,408,422; Feb. 28.
- Tebbetts, Harry O., Waterville, Me. Mail and coin holding device. No. 1,419,179; June 13.
- Tebbetts, L. B., & Company. (See Henry, Jesse P., assignor.)
- Techel, Hans. (See von Sanden, K., and Techel.)
- Techel, Hans, Kiel, assignor to Fried. Krupp Aktien-gesellschaft, Germaniawerft, Kiel-Gaarden, Germany. Telescope device for determining the angle of allowance in front on attacking a moving target. No. 1,423,168; July 18.

- Teichel, Hans, assignor to Fried. Krupp Aktiengesellschaft Germania-Werft, Kiel, Germany. Ammunition hoist. No. 1,425,916; Aug. 15.
- Technical Research Works Limited. (See Bolton, E. R., and Lush, assignors.)
- Tedder, James A., Princeton, assignor of one-tenth to A. T. Smith, Mercer County, W. Va. Sash holder and lock. No. 1,432,577; Oct. 17.
- Teegarden, Chester H., Washington, D. C. Telegraph sounder. No. 1,406,428; Feb. 14.
- Teegarden, Chester H., Washington, D. C. Receiving telegraph signals. No. 1,440,036; Dec. 26.
- Teehan, John F., Brockton, Mass. Footwear. No. 1,420,461; June 20.
- Tee-Lok Shingle Company. (See Harsbberger, Norman P., assignor.)
- Teepie, Oliver P., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Machine for making reinforced box trays. No. 1,439,850; Dec. 26.
- Teeter, James F., Chicago, Ill. Crank aliner. No. 1,439,276; Dec. 19.
- Teetor, Charles N., Hagerstown, Ind. Engine. No. 1,414,796; May 2.
- Teetor, Martin V., Rochester, N. Y. Clothesline hanger. No. 1,405,073; Jan. 31.
- Teetsell, Ulysses G., Tarrytown, N. Y. Egg beater. No. 1,406,778; Feb. 14.
- Tefft, Floyd J., Chicago, Ill. Towel holder. No. 1,431,765; Oct. 10.
- Tegeler, Frederick A., La Grange, Ill. Rail-drilling device. No. 1,427,982; Sept. 5.
- Tegtmeyer, Archie, and L. Schneider, Milwaukee, Wis. Mathematical game. No. 1,402,807; Jan. 10.
- Teich, Ernest L., assignor to The American Hardware Corporation, New Britain, Conn. Adjustable latch-operating means. No. 1,405,695; Feb. 7.
- Teich, Ernest L., assignor to The American Hardware Corporation, New Britain, Conn. Lock. No. 1,437,785; Dec. 5.
- Teich, Ernest L., assignor to The American Hardware Corporation, New Britain, Conn. Cover for locks. No. 1,439,038; Dec. 19.
- Teichner, Gustav, Vienna, Austria. Hydrogenating catalyzer. No. 1,427,037; Aug. 22.
- Teichner, Gustav, Vienna, Austria. Oxidizing hydrocarbons and their oxidation products. No. 1,436,214; Nov. 21.
- Teiten, Torbjorn T. (See Grimsrud, E., and Teiten.)
- Telautograph Corporation. (See Tiffany, George S., assignor.)
- Telephone Manufacturing Company, (1920) Limited, The. (See Murray, Robert L., assignor.)
- Telescope Cot Bed Company. (See Miller, Lloyd J., assignor.)
- Television Corporation, The. (See Hammond, Laurens, assignor.)
- Teller, George, Belmont, Mass. Clothespin and anchor therefor. No. 1,440,116; Dec. 26.
- Tell Machine & Tool Co., The. (See Niedermayer, George, assignor.)
- Teller, Washington D., Wasepi, Mich. Cushion tire. No. 1,428,719; Sept. 12.
- Telli, Anthony, Washington, D. C. Envelope-fastener-applying device. No. 1,428,498; Sept. 5.
- Tellier, Roy G., Chicago, Ill. Earth-treating process and product. No. 1,402,112; Jan. 3.
- Telling-Belle Vernon Company, The. (See Telling, Frank D., assignor.)
- Telling, Frank D., assignor to The Telling-Belle Vernon Company, Cleveland, Ohio. Refrigerator. No. 1,431,766; Oct. 10.
- Telling, Harry G., assignor to Adaptable Code Condensers Limited, London, England. Mechanical coding and decoding or ciphering apparatus. No. 1,437,325; Nov. 28.
- Tempelhaar, Hendrik A., Tandjong-Karang, Sumatra. Tea-leaf-rolling machine. No. 1,425,722; Aug. 15.
- Temperle, Edward D. and H. A., St. Louis, Mo. Dirigible headlight. No. 1,438,672; Dec. 12.
- Temperle, Harry A. (See Temperle, Edward D. and H. A.)
- Templett, William W., Oakland, Calif. Valve-operating mechanism for flush tanks. No. 1,429,798; Sept. 19.
- Templeton, Charles L., Minneapolis, Minn. Toy target. No. 1,418,339; June 6.
- Templeton, Edwin G., Akron, Ohio. Sealing device for battery terminals. No. 1,432,806; Oct. 24.
- Templeton, Walter B., Chicago, Ill. Expansion stud. No. 1,413,998; Apr. 25.
- Templin, John W., assignor of one-half to J. E. Hall. Kokomo, Ind. Reaper and binder. No. 1,439,851; Dec. 26.
- Tenbrook, George H. (See Brann, H. H., and Tenbrook.)
- Tench, Samuel V., Wilkes-Barre, Pa. Flight for conveyor chains. No. 1,424,126; July 25.
- Ten Eyck, Walter P., Westfield, N. J., assignor to Snyder & Black, Incorporated, New York, N. Y. Merchandise folder. No. 1,412,635; Apr. 11.
- Ten Eyck, Walter P., Westfield, N. J., assignor to Snyder & Black Incorporated, New York, N. Y. Display carton. No. 1,434,165; Oct. 31.
- Tennent, John G., Dallas, Tex. Attachment for motor vehicles. No. 1,418,034; May 30.
- Tennery, Rae A. (See Gillette, Leroy D., assignor.)
- Tenney, Charles H. (See Burgi, Herman, assignor.)
- Tenney, Fred, Doncaster, England. Game. No. 1,427,135; Aug. 29.
- Tentobed Company. (See Purcell, Isaac S., assignor.)
- Tentobed Company. (See Rietschel, John, assignor.)
- Ten Winkel, Herman, Denver, Colo. Wet-weather guard and antirattler for automobiles. No. 1,409,269; Mar. 14.
- Teplitz, Samuel. (See Fransson, Sven W., assignor.)
- Ter Cock, Chris, Flevooraa, Naarden, Netherlands. Apparatus for the control of variable-speed gears. No. 1,414,933; May 2.
- Terenzi, Alfredo F., Derby, and E. Raduhn, Shelton, Conn. Macaroni machine. No. 1,436,063; Nov. 21.
- Terhune, Leonard B., Newark, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Separating machine. No. 1,409,500; Mar. 14.
- Ter Kuile, Harry, Enschede, Netherlands. Replenishing mechanism for multicolor looms. No. 1,423,279; July 18.
- Ter Maat, Laurence, Chicago, Ill. Clothes wringer. No. 1,432,807; Oct. 24.
- Ter Meer, Gustav, Hanover, Germany. Centrifugal machine. No. 1,408,843; Mar. 7.
- Terner, Edward, Milwaukee, Wis. Card holder. No. 1,415,276; May 9.
- Ternestedt Manufacturing Co. (See Gates, Louis W., assignor.)
- Ternestedt Manufacturing Company. (See Heintz, Ernest E., assignor.)
- Terr, Joseph, assignor to The Marathon Tire & Rubber Company, Cuyahoga Falls, Ohio. Bag. No. 1,419,425; June 13.
- Terranova, Giuseppe E., New Haven, Conn. Musical toy. No. 1,414,446; May 2.
- Terrell, Albert C., Grand Rapids, Mich. Drawer. No. 1,402,385; Jan. 3.
- Terrell, Albert W., Newport News, Va. Flue cleaner. No. 1,414,840; May 2.
- Terrell, Julian D., Charleston, W. Va. Resilient vehicle wheel. No. 1,411,761; Apr. 4.
- Terrell, Thomas. (See Soper, J. P. H., and Terrell, assignors.)
- Terrisse, Henri, and M. Lévy, Geneva, Switzerland. Acid-proof casting. No. 1,432,923; Oct. 24.
- Terry, Elsie, St. Louis, Mo. Electric oven. No. 1,403,136; Jan. 10.
- Terry, George O., assignor to Economy Shoe Machine Co., Minneapolis, Minn. Shoemaker's jack. No. 1,414,055; Apr. 25.
- Terry, George O., assignor to Economy Shoe Machine Co., Minneapolis, Minn. Cutting device for leather soles. No. 1,422,901; July 18.
- Terry, John C., Long Island City, N. Y. Vehicle top. No. 1,437,950; Dec. 5.
- Terry, Melzar L., Indian Orchard, Mass. Pipe wrench. No. 1,437,873; Dec. 5.
- Terry, Merrill H., Columbus, Ohio. Ratchet wrench. No. 1,415,731; May 9.
- Terry, Merrill H., Columbus, Ohio. Lantern. No. 1,428,923; Sept. 12.
- Terry, Richard S., Milford, Conn. Game apparatus. No. 1,425,617; Aug. 15.
- Terry Steam Turbine Company, The. (See Church, Maynard D., assignor.)
- Terry, Willard B., Salt Lake City, Utah. Scraper. No. 1,402,460; Jan. 3.
- Terry, William N., Freeport, Ill. Barrel stand. No. 1,440,117; Dec. 26.
- Terry, William W., Portsmouth, Va. Trolley-wire splice runner. No. 1,431,340; Oct. 10.
- Tervo, Oscar, assignor of one-half to K. Hill, Quincy, Mass. Submarine escape boat. No. 1,405,728; Feb. 7.
- Terwen, Adrianus J. L., and C. J. C. van Hoozenhuyze, Amsterdam, Netherlands. Manufacture of decolorized, odorless, and tasteless albumins from blood. No. 1,415,277; May 9.
- Terwillinger, Lee, et al. (See Towers, Lewis E., assignor.)
- Terzian, Harutyun G. (See Evans, O. B., and Terzian.)
- Tesdell, Edward S., Des Moines, Iowa. Electric heater for steering wheels. No. 1,429,799; Sept. 19.
- Tesla, Nikola, New York, N. Y., assignor to Waltham Watch Company, Waltham, Mass. Frequency meter. No. 1,402,025; Jan. 3.
- Tesse, Theodore F., et al. (See Tesse, Theodore, F., assignor.)
- Tesse, Theodore F., assignor to Societe Nauton freres & de Marsac, St. Ouen, and T. F. Tesse, Paris, France. Diminishing the visibility of objects. No. 1,426,521; Aug. 22.
- Tesseyman, John E., and T. N. Russell, assignors to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Carline. No. 1,428,403; Sept. 5.
- Tessier, Julien, assignor to Eastman Kodak Company, Rochester, N. Y. Focusing lens mount. No. 1,405,463; Feb. 7.
- Tessier, Julien, assignor to Eastman Kodak Company, Rochester, N. Y. Focal-plane shutter. No. 1,411,675; Apr. 4.
- Tessin, Frederick J. (See Burns, F. L., and Tessin.)
- Test, Ellis W., Michigan City, Ind. Sheet-metal car end. No. 1,406,701; Feb. 14.
- Test, Ellis W., Michigan City, Ind. Sheet-metal car end. No. 1,408,657; Mar. 7.

Alphabetical list of patentees—Continued.

- Teter, Charles K., assignor to The Teter Manufacturing Company, Cleveland, Ohio. Vapor warmer. No. 1,436,064; Nov. 21.
- Teter Manufacturing Company, The. (See Teter, Charles K., assignor.)
- Teters, John R., Sunnyside, Calif. Rat killer. No. 1,408,658; Mar. 7.
- Tevander, Olof N., Chicago, Ill. Fastening clip. No. 1,427,866; Sept. 5.
- Tevander, Olof N., assignor to Standard Cap and Seal Corporation, Chicago, Ill. Closure-applying machine. No. 1,431,341; Oct. 10.
- Teubner, Ernst, Hohenneudorf, near Berlin, Germany. Automatically-acting safety device for use in connection with carburetors of motor cars, motor boats, and flying machines. No. 1,408,233; Feb. 28.
- Teutsch, Charles, Newark, N. J. Fishing reel. No. 1,439,926; Dec. 26.
- Tex Engineering Corporation. (See Textorius, Knut O. B., assignor.)
- Texas Company, The. (See Adams, Joseph H., assignor.)
- Texas Company, The. (See Drake, Rollin L., assignor.)
- Texas Company, The. (See Hall, Frank W., assignor.)
- Texas Company, The. (See Lorenz, Charles O., assignor.)
- Texas Company, The. (See Manley, Frederick T., assignor.)
- Texas Company, The. (See Nicholson, John, assignor.)
- Texas Gulf Sulphur Company. (See Bacon, R. F., and Davis, assignors.)
- Texas Gulf Sulfur Company. (See Davis, H. S., and Bacon, assignors.)
- Texas Reclaim Oil Association. (See Humason, G. A., and Barraco, assignors.)
- Texas Steel Highway Marker Association. (See Smith, Lloyd H., assignor.)
- Textile Engineering Company. (See Hale, Joshua B., assignor.)
- Textile Machine Works. (See Meyer, Christian F., assignor.)
- Textile Machine Works. (See Zwicky, Melchior, assignor.)
- Textiles Development Corporation. (See Manly, Fred B., assignor.)
- Textorius, Bengt P., Leamington, Utah. Chair. No. 1,439,584; Dec. 19.
- Textorius, Knut O. B., assignor to Tex Engineering Corporation, New York, N. Y. Tire-forming core. No. 1,408,044; Feb. 28.
- Thacher, George H., jr., North Providence, R. I. Dumping grate for stokers. No. 1,436,215; Nov. 21.
- Thacher, George H., Jr., Albany, N. Y., assignor to Vincent Gilson Engineering Co. Inc. Stoker. No. 1,406,702; Feb. 14.
- Thacher, John H., Kansas City, Mo. Oil-well cleaner. No. 1,433,046; Oct. 24.
- Thackray, George B., Westmont Borough, Pa. Making ingots. No. 1,409,040; Mar. 7.
- Thackray, George E., Westmont Borough, Pa. Concrete-column reinforcement. No. 1,413,199; Apr. 18.
- Thackray, George E., Westmont Borough, Pa. Mine car. No. 1,414,056; Apr. 25.
- Thaler, William L., and H. H. Glazer, Brooklyn, N. Y. Key case. No. 1,435,033; Nov. 7.
- Thalhammer, Karl W., Los Angeles, Calif. Support for cameras. No. 1,425,807; Aug. 15.
- Thallmayer, Ludwig, Berlin-Charlottenburg, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Safety arrangement for charging devices of hoist cages. No. 1,435,564; Nov. 14.
- Thamann, George H., Covington, Ky. Lock bolt and nut. No. 1,414,761; May 2.
- Tharaldsen, Filip, Trondhjem, Norway. Electric furnace. No. 1,417,953; May 30.
- Tharp, Lee, Burlington, Iowa. Automobile wheel gauge. No. 1,438,346; Dec. 12.
- Thatcher, Charles F., Providence, R. I. Bottle stopper. No. 1,418,035; May 30.
- Thatcher, Charles J., New York, N. Y. Utilizing waste liquor. No. 1,405,954; Feb. 7.
- Thatcher, George T., Auburn, N. Y. Machine for serrating knife blanks. No. 1,420,786; June 27.
- Thatcher, Lewis P., Chattanooga, Tenn. Measuring device. No. 1,433,757; Oct. 31.
- Thatcher Manufacturing Company. (See Niver, Raymond W., assignor.)
- Thatcher, Martin F. (See Wikel, H. S., and Thatcher.)
- Thaw, Jack, Baltimore, Md. Shopping bag. No. 1,428,617; Sept. 12.
- Thaxton, Thomas W., assignor of one-half to C. L. Bacon, Muncie, Ind. Valve. No. 1,407,358; Feb. 21.
- Thayer, Charles L., Plainville, Kans. Combined sparking plug and spark intensifier for internal-combustion engines. No. 1,413,142; Apr. 18.
- Thayer, Edwin R. (See Goldman, M. M., and Thayer.)
- Thayer, Ellis T., Charleston, W. Va. Trolley wheel. No. 1,405,074; Jan. 31.
- Thayer, Fred A. J., Riverton, and J. W. Alexander, Renton, Wash. Retort. No. 1,412,579; Apr. 11.
- Thayer, Herbert A., Providence, R. I. Number-plate frame. No. 1,412,580; Apr. 11.
- Thayer, Russell, Philadelphia, Pa. Centrifugal separator or amalgamator. No. 1,423,169; July 18.
- Thayer, Russell, Philadelphia, Pa. Extraction of platinum and similar metals from their sands and ores. No. 1,429,378; Sept. 19.
- Thebaud, John E., Philadelphia, Pa. Valve device for vacuum containers. No. 1,409,041; Mar. 7.
- Theberath, Joseph C., Cleveland, Ohio. Rim-collapsing tool. No. 1,410,140; Mar. 21.
- Theberath, Joseph C., assignor to The Standard Parts Company, Cleveland, Ohio. Vehicle wheel rim. No. 1,415,963; May 16.
- Theberath, Joseph C., assignor to The Standard Parts Company, Cleveland, Ohio. Welding torch. No. 1,418,688; June 6.
- Theberath, Joseph C., Lakewood, assignor to R. A. Rohrich, Cleveland, Ohio. Auxiliary supporting and positioning means for automobile engines. No. 1,437,621; Dec. 5.
- Theed, William H. A., South Kensington, and A. T. Phillips, Hammersmith, England. Method of making liners for reinforcing the covers of pneumatic tires. No. 1,421,616; July 4.
- Theleen, Oscar H., assignor to Frost Manufacturing Company, Kenosha, Wis. Flushing mechanism. No. 1,423,888; July 25.
- Thelen, Rolf, Madison, Wis. Thermostat. No. 1,413,073; Apr. 18.
- Thelen, Rolf, Madison, Wis. Drying kiln. No. 1,420,296; June 20.
- Thelin, Erick B. (See Barclay, William G., assignor.)
- Thenis, Matthias, North Vernon, Ind. Pipe. No. 1,418,746; June 6.
- Theobald, Charles K., Jonesboro, Ark. Electric-fixture-display device. No. 1,418,215; May 30.
- Theobald, George A., Boston, assignor, by mesne assignments, to A. H. Hews & Co., Incorporated, Cambridge, Mass. Molding machine. No. 1,431,062; Oct. 3.
- Theobald, Thomas O., Detroit, Mich. Washing machine. No. 1,427,867; Sept. 5.
- Theodore, George. (See Dorcheff, George.)
- Theodorsen, Olav T., Christiania, Norway. Wood joint. No. 1,426,232; Aug. 15.
- Theoennes, Jacob, Brandon, Minn. Towing apparatus for motor vehicles. No. 1,434,512; Nov. 7.
- Theofilos, Nicholas, Chicago, Ill. Electric heater. No. 1,406,912; Feb. 14.
- Thériault, Alphonse C., Montreal, Quebec, Canada. Incubator. No. 1,415,732; May 9.
- Thermal Appliance Company. (See Strong, William E. S., assignor.)
- Thermic Engineering Co. (See Lennig, Edmund B., assignor.)
- Thermoid Rubber Company. (See Grew, Walter F., assignor.)
- Thermoid Rubber Company. (See Stokes, Robert J., assignor.)
- Thermokept Products Corporation. (See Willison, Walter W., assignor.)
- Thero, Charlie, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Waistband for trousers. No. 1,429,800; Sept. 19.
- Theroz Company, The. (See Popper, Isaac C., assignor.)
- Therrien, George N., Keene, N. H. Spike-driving machine. No. 1,412,222; Apr. 11.
- Thew Shovel Company, The. (See Harris, Hollis H., assignor.)
- Thews, Karl B., Sawpit, Colo., assignor to Colorado Vanadium Corporation, New York, N. Y. Recovering vanadium. No. 1,430,864; Oct. 3.
- Thibadeau, Almira M., executrix. (See Thibadqre, Henry E.)
- Thibadore, Henry E., deceased, Utica, N. Y., assignor of one-half to J. L. Thibadore, Lanesboro, Mass.; A. M. Thibadeau, executrix of H. E. Thibadore, deceased. Shower-bath chair. No. 1,406,779; Feb. 14.
- Thibadore, Joseph L. (See Thibadore, Henry E., assignor.)
- Thibert, Napoleon R., Worcester, Mass. Machine for forming wire. No. 1,426,425; Aug. 22.
- Thibodeaux, Stanley J., and H. L. Raulerson, Jacksonville, Fla. Valve. No. 1,434,267; Oct. 31.
- Thiede, Richard A., Camden, N. J. Ash sifter. No. 1,422,011; July 4.
- Thiede, Walter W., Amherst, Nebr. Rotary valve for internal-combustion engines. No. 1,403,721; Jan. 17.
- Thiede, Walter W., Amherst, Nebr. Adjustable bearing. No. 1,409,260; Mar. 14.
- Thiede, Walter W., Amherst, Nebr. Piston. No. 1,436,922; Nov. 28.
- Thiele, Adolph, Dayton, Ohio. Caster. No. 1,402,191; Jan. 3.
- Thiele, Adolph A., Omaha, Nebr., assignor to American Smelting and Refining Company, New York, N. Y. Trolley reel. No. 1,420,350; June 20.
- Thiele, Alfred, Dresden, Germany. Working claw for hand or arm amputated persons. No. 1,421,322; June 27.
- Thiele, Alfred, Magdeburg, Germany, assignor to Firm of Emmy Thiele, Berlin, Germany. Repairing patch for pneumatic tires. No. 1,422,495; July 11.
- Thiele, Firm of Emmy. (See Thiele, Alfred, assignor.)
- Thiell, William C., Baltimore, Md. Automobile lock. No. 1,427,654; Aug. 29.
- Thiemann, Julius A., Washington, D. C. Package-tie fastener. No. 1,432,808; Oct. 24.

- Thiemer, William H., assignor to The Peters Machine & Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,411,069; Mar. 28.
- Thiemer, William H., assignor to The Peters Machine & Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,418,689; June 6.
- Thiemer, William H., assignor to The Peters Machine & Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,421,617; July 4.
- Thiemer, William H., assignor to The Peters Machine & Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,436,785; Nov. 28.
- Thierfelder, Meta R., administratrix. (See Thierfelder, Paul, assignor.)
- Thierfelder, Paul, deceased, Auerbach, Erzgebirge, Germany; M. R. Thierfelder, administratrix. Sock or stocking and manufacturing the same. No. 1,404,702; Jan. 24.
- Thierman, William, Faribault, Minn. Last. No. 1,414,316; Apr. 25.
- Thies, John C. (See Doll, R. F., and Thies.)
- Thiess, Karl, Sindlingen, near Hochst-on-the-Main, F. Maennchen, A. Steindorff, and F. Giloy, assignors to Farbwerke vorm. Meister Lucius & Bruning, Hochst-on-the-Main, Germany. Stable, dry, and readily-soluble vat preparations and making same. No. 1,426,522; Aug. 22.
- Thiess, Karl, Sindlingen, near Hochst-on-the-Main, and F. Giloy, assignors to Farbwerke vorm. Meister Lucius & Bruning, Hochst-on-the-Main, Germany. Manufacture of stable, dry, and readily-soluble vat preparations for dyeing. No. 1,440,037; Dec. 26.
- Thill, John C., Fox Lake, Ill. Automatically-closing chute. No. 1,405,955; Feb. 7.
- Thiry, Edward, Pasadena, Calif. Flushing device for closets. No. 1,419,426; June 13.
- Thjomoe, Otto M. (See Towne, W. H., Thjomoe, and Mercer.)
- Thode, Albert, Hamburg, Germany. Maximum cut out. No. 1,411,389; Apr. 4.
- Thode, Charles H. H., Camp Lewis, Wash. Lifting jack. No. 1,402,192; Jan. 3.
- Thoenness, John M. (See Eltag, C. A., and Thoenness.)
- Thofeurn, Hermann G. C., deceased, Roselle; D. H. McLean, administrator, assignor to Light Metals Company, Elizabeth, N. J. Making and using metal scavenging alloy. No. 1,415,733; May 9.
- Thole, Edward J., Evansville, Ind. Box. No. 1,424,127; July 25.
- Thom, James C., Chicago, Ill., assignor to Combination Machine Company, New York, N. Y. Package-handling and label-preparing mechanism. No. 1,414,678; May 2.
- Thom, James C., Chicago, Ill., assignor to Combination Machine Company, New York, N. Y. Mechanism for arranging and feeding cylindrical box bodies. No. 1,416,763; May 23.
- Thom, James C., Chicago, Ill., assignor to Combination Machine Company. Machine-control apparatus. No. 1,424,325; Aug. 1.
- Thom, James C., Chicago, Ill., assignor to Combination Machine Company, New York, N. Y. Sheet-feeding method and means. No. 1,425,350; Aug. 8.
- Thom, Robert A. (See Robinson, J. G., and Thom.)
- Thom, Robert A., Manchester, England. Return end and making same. No. 1,425,222; Aug. 8.
- Thom, Robert A., Manchester, assignor to The Superheater Corporation Limited, London, England. Return end and making same. No. 1,425,495; Aug. 8.
- Thomall, Timothy V., assignor to Milk Bottle Crate Company, Chicago, Ill. Bottle crate. No. 1,411,815; Apr. 4.
- Thomall, Timothy V., assignor to Milk Bottle Crate Company, Chicago, Ill. Box and crate. No. 1,415,064; May 9.
- Thomas, A. Alexander. (See Blieberger, Charles, assignor.)
- Thomas, Adelbert A., assignor to Chicago Case Manufacturing Company, Chicago, Ill. Carrying case. No. 1,416,139; May 16.
- Thomas, Alonzo I., Dallas, Oreg. Grateless furnace and force draft for the same. No. 1,410,141; Mar. 21.
- Thomas, Andy Z., Mapleton, Ill. Toy aeroplane. No. 1,418,849; June 6.
- Thomas, Arthur R. (See Benoist, Frank O., assignor.)
- Thomas, Arthur S., Whitney, S. C. Cotton-preparing machinery. No. 1,407,500; Feb. 21.
- Thomas, Avery H., Houston, Tex. Pipe elevator. No. 1,407,236; Feb. 21.
- Thomas, Avery H., Houston, Tex. Elevator. No. 1,419,115; June 6.
- Thomas, Avila O., Detroit, Mich. Building tile. No. 1,413,241; Apr. 18.
- Thomas, Avila O., Detroit, Mich. Wall construction and tie therefor. No. 1,439,650; Dec. 19.
- Thomas, Avila O., Detroit, Mich. Tile floor construction. No. 1,439,651; Dec. 19.
- Thomas, Benjamin D., assignor to one-tenth to Thomas-Morse Aircraft Corporation, Ithaca, N. Y. Dual control for airplanes. No. 1,424,049; July 25.
- Thomas, Bruno, Seattle, Wash. Apparatus for the oxidation of atmospheric nitrogen. No. 1,437,569; Dec. 5.
- Thomas, Carl C., Baltimore, Md. Supercharger for internal-combustion engines. No. 1,428,924; Sept. 12.
- Thomas, Carl C., Baltimore, Md. Supercharger for internal-combustion engines. No. 1,428,925; Sept. 12.
- Thomas, Carlyle W., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Ruffling mechanism for sewing machines. No. 1,412,903; Apr. 18.
- Thomas, Carlyle W., and P. W. Somers, Bridgeport, Conn., assignors to The Singer Manufacturing Company, Elizabeth, N. J. Seam-margin-opening device for sewing machines. No. 1,416,998; May 23.
- Thomas, Cassius M., St. Louis, Mo. Truss. No. 1,426,124; Aug. 15.
- Thomas, Charles E., El Paso Gap, N. Mex. Drop door. No. 1,407,359; Feb. 21.
- Thomas, Clifford S., Gorham, Me. Lighting fixture. No. 1,413,242; Apr. 18.
- Thomas, Cornilius, Tonyrefail, Wales. Dress and other fastening device. No. 1,408,311; Feb. 28.
- Thomas, Edward, assignor to Underwood Computing Machine Company, New York, N. Y. Computing machine. No. 1,413,999; Apr. 25.
- Thomas, Edward, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,428,193; Sept. 5.
- Thomas, Edward G., assignor to The Toledo Scale Company, Toledo, Ohio. Check-link mechanism. No. 1,404,809; Jan. 31.
- Thomas, Edward G., assignor to Toledo Scale Company, Toledo, Ohio. Indicating mechanism for scales. No. 1,409,317; Mar. 14.
- Thomas, Edward G., assignor to Toledo Scale Company, Toledo, Ohio. Connecting device. No. 1,439,203; Dec. 19.
- Thomas, Edwin E., Portland, Oreg., assignor to William Gordon, Union, N. J. Wrench. No. 1,410,627; Mar. 28.
- Thomas, Edwin E., assignor to one-half to W. C. Alvord, Portland, Oreg. Water distribution and delivery. No. 1,434,757; Nov. 7.
- Thomas, Elmer R., Davenport, Iowa. Steering wheel. No. 1,420,462; June 20.
- Thomas, Fernand, Paris, France, assignor to Dunkley Company, Kalamazoo, Mich. Machine for stemming cherries and other fruit. No. 1,432,137; Oct. 17.
- Thomas, Frank B., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Starting and unloading device. No. 1,422,902; July 18.
- Thomas, Frank M., Piggott, assignor to one-half to L. Linke, Paragould, Ark. Air-line coupling. No. 1,402,978; Jan. 10.
- Thomas, Frank W., and M. D. Kimball, Pasadena, Calif. Vacuum oiling system. No. 1,421,858; July 4.
- Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Hinge joint for faceplate doors and the like. No. 1,414,841; May 2.
- Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Bolt-retaining device. No. 1,429,117; Sept. 12.
- Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Hinge joint for faceplate doors. No. 1,434,971; Nov. 7.
- Thomas, George C., Jr., assignor to The Thomas & Betts Co., Elizabeth, N. J. Electrical connecting device. No. 1,418,989; June 6.
- Thomas, George C., Jr., assignor to The Thomas & Betts Co., Elizabeth, N. J. Connector for electrical conduits, etc. No. 1,418,990; June 6.
- Thomas, George W., Los Angeles, and H. L. Scott, Long Beach, Calif. Wrench. No. 1,415,734; May 9.
- Thomas, Hanson, Pittsburgh, Pa. Machine for applying nuts to bolts. No. 1,431,493; Oct. 10.
- Thomas, Henry, East Ham, England. Holder for taps, reamers, dies, or the like. No. 1,436,368; Nov. 21.
- Thomas, Henry, East Ham, England. Holder for taps, reamers, dies, and the like. No. 1,436,369; Nov. 21.
- Thomas, Hockley M., New York, N. Y. Supporting pin and cutter. No. 1,413,435; Apr. 18.
- Thomas, Hockley M., New York, N. Y. Pin. No. 1,413,506; Apr. 18.
- Thomas, Hockley M., and M. Fogel, New York, N. Y.; said Fogel assignor to said Thomas. Support and cutter. No. 1,424,050; July 25.
- Thomas, Horace T., Lansing, Mich. Spring shackle. No. 1,413,635; Apr. 25.
- Thomas, Horace T., Lansing, Mich. Running board. No. 1,425,554; Aug. 15.
- Thomas, Horace T., Lansing, Mich. Automobile lock. No. 1,428,720; Sept. 12.
- Thomas, Horace T., Lansing, Mich. Automobile. No. 1,438,195; Dec. 12.
- Thomas, Hubert S., Llandaff, near Cardiff, and W. R. Davies, Whitchurch, near Cardiff, Wales. Machinery or apparatus to be used in the manufacture of tinplates and other metal-coated plates or sheets. No. 1,432,578; Oct. 17.
- Thomas, Hugh K., Walthamstow, London, assignor to The Associated Equipment Company Limited, Westminster, London, England. Spring suspension means for vehicles. No. 1,440,188; Dec. 26.
- Thomas, James, Los Angeles, Calif. Ignition-point-grinding device. No. 1,429,801; Sept. 19.
- Thomas, James, Tacoma, Wash. Machine for making cement pipes. (Reissue.) No. 15,487; Nov. 7.

Alphabetical list of patentees—Continued.

- Thomas, James A., assignor to Cluett Peabody & Co., Inc., Troy, N. Y. Stop motion. No. 1,411,198; Mar. 28.
- Thomas, James F., Montreal, Quebec, Canada. Rotary power machine. No. 1,402,113; Jan. 3.
- Thomas, James F., Montreal, Quebec, Canada. Pumping mechanism. No. 1,430,416; Sept. 26.
- Thomas, James H., Los Angeles, Calif. Automobile combination jack. No. 1,414,903; May 2.
- Thomas, James O., Vancouver, British Columbia, Canada. Light-control mechanism for projectors. No. 1,436,370; Nov. 21.
- Thomas, Jefferson A., Boston, Mass. Washboard. No. 1,433,431; Oct. 24.
- Thomas, Jephtha A., Pennville, Ind. Harrow-tooth clip. No. 1,435,092; Nov. 7.
- Thomas, John J., Balfour, N. Dak. Wrench. No. 1,407,360; Feb. 21.
- Thomas, John M., Marion, Iowa. Hat and umbrella holder. No. 1,420,891; June 27.
- Thomas, John T., Fort Myers, Fla. Automatic door for mines. No. 1,410,425; Mar. 21.
- Thomas, Joseph, Aberdeen, Wash. Vapor bath. No. 1,425,423; Aug. 8.
- Thomas, Kurt R., Los Angeles, Calif. Bermuda grass cutter. No. 1,407,962; Feb. 28.
- Thomas, Lawrence H. (See Kuhn, F., and Thomas.)
- Thomas, Lawrence H. (See Kuhn, F., Thomas, and Spless.)
- Thomas, Louis. (See Markus, J., and Thomas.)
- Thomas, Louis V., assignor to La Societe Anonyme du Moteur L. Thomas, Lyon, France. Two-stroke-cycle internal-combustion engine. No. 1,402,683; Jan. 3.
- Thomas, Louis V., assignor to La Societe Anonyme du Moteur L. Thomas, Lyon, France. Piston for internal-combustion engines. No. 1,410,776; Mar. 28.
- Thomas, Lydia B., Kennett Square, Pa. Child's garment. No. 1,411,816; Apr. 4.
- Thomas Manufacturing Co., The. (See Felton, Charles H., assignor.)
- Thomas, Martin E., Aubrey, Tex., assignor of one-fourth to J. L. Fries, one-fourth to W. E. Fries, one-eighth to L. D. Hefner, Tioga, and one-fourth to C. W. Hopper, Aubrey, Tex. Drill bit. No. 1,402,683; Jan. 3.
- Thomas, Martin E., assignor of one-tenth to E. C. Coffey, one-fifth to I. C. Holman, one-fifth to J. M. Jones, one-fifth to J. B. Kinkead, and one-fifth to S. Zollars, Aubrey, Tex. Oil-well drill bit. No. 1,438,876; Dec. 12.
- Thomas, Miley W., assignor to The Yoder-Thomas Manufacturing Company, Cleveland, Ohio. Valve mechanism. No. 1,402,189; Jan. 3.
- Thomas-Morse Aircraft Corporation. (See Thomas, Benjamin D., assignor.)
- Thomas, Simpson, Southampton, N. Y. Calendar. No. 1,417,424; May 23.
- Thomas Spark Plug Co. (See Thomas, William S., assignor.)
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. No. 1,428,997; Sept. 12.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake device. No. 1,432,427; Oct. 17.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Engineer's brake valve. No. 1,432,428; Oct. 17.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake device. No. 1,439,039; Dec. 19.
- Thomas, Walter, Nanaimo, British Columbia, Canada. Distilling carbonaceous material. No. 1,422,496; July 11.
- Thomas, Walter J., Memphis, Tenn. Pipe wrench. No. 1,431,994; Oct. 17.
- Thomas, Walter J., Chicago, Ill. Primer. No. 1,437,622; Dec. 5.
- Thomas, Walter J., assignor of one-half to L. W. Davis, Modesto, Calif. Auto jack. No. 1,413,143; Apr. 18.
- Thomas, Wellington L. (See Shaffer, Patrick H., assignor.)
- Thomas, William B., Jacksonville, Fla. Steering device for motor vehicles. No. 1,425,723; Aug. 15.
- Thomas, William G., Jr., Newark, N. J., assignor to Safepack Mills, Boston, Mass. Floor covering. No. 1,427,655; Aug. 29.
- Thomas, William L., Higdons Store, Ga. Cultivator. No. 1,412,721; Apr. 11.
- Thomas, William M., Cincinnati, Ohio. Swing. No. 1,420,787; June 27.
- Thomas, William R. (See Smith, William T., assignor.)
- Thomas, William S., Roselle Park, N. J. Head structure for spark plugs. No. 1,411,229; Mar. 28.
- Thomas, William S., assignor to Thomas Spark Plug Co., Roselle Park, N. J. Securing spark-plug electrodes to conducting heads. No. 1,416,243; May 16.
- Thomas, William S., Linden, assignor to Thomas Spark Plug Company, Roselle Park, N. J. Insulated electrode for spark plugs. No. 1,437,999; Dec. 5.
- Thomas & Betts Co., The. (See Thomas, George C., Jr., assignor.)
- Thomasson, Adam P., Chicago, Ill. Heating stove. No. 1,416,140; May 16.
- Thomay, John, Columbus, Ohio. Automobile signal. No. 1,410,850; Mar. 28.
- Thomes, Frank E., Portland, Me. Mold for metal castings. No. 1,410,775; Mar. 28.
- Thomes, Frank E., Portland, Me. Mold for making metal castings. No. 1,410,777; Mar. 28.
- Thomes, Frank E., Portland, Me. Convertible woodwork-ing machine. No. 1,420,591; June 20.
- Thomley, Oliver C., Osseo, Wis. Tire boot. No. 1,402,808; Jan. 10.
- Thommen, W. H. (See Pepin, Joseph N., assignor.)
- Thompson, Abel, and J. Atkinson, Roland, Iowa. Shovel. No. 1,407,237; Feb. 21.
- Thompson, Albert, Collinston, La. Hame. No. 1,412,322; Apr. 11.
- Thompson, Albert M., Chicago, Ill. Automatic train-control system. No. 1,437,326; Nov. 28.
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Cooker, cooler, and the like. No. 1,402,193; Jan. 3.
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Pressure cooker. (Reissue.) No. 15,334; Apr. 11.
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Can-discharge device. No. 1,422,798; July 11.
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Cooler especially adapted for canning. No. 1,432,924; Oct. 24.
- Thompson, Alfred H., Venice, Calif. Art of and means for burning domestic or producer gas. No. 1,434,256; Oct. 31.
- Thompson, Archibald H., Syracuse, assignor, by mesne assignments, to Empire Seating Co., Inc., Rochester, N. Y. Combined chair and desk or table. (Reissue.) No. 15,296; Feb. 28.
- Thompson, Arthur W., East McKeesport, Pa., assignor to Westinghouse Electric & Manufacturing Company. Cooling coils for transformers. No. 1,430,769; Oct. 3.
- Thompson, Arthur W., East McKeesport, Pa., assignor to Westinghouse Electric and Manufacturing Company. Coil-supporting means for transformers. No. 1,435,265; Nov. 14.
- Thompson, Calvin T., Topeka, Kans. Leaf-spring lubricant. No. 1,410,967; Mar. 28.
- Thompson, Carey W., New York, N. Y. Process and apparatus for recovery of hydrocarbons from oil shale. No. 1,428,458; Sept. 5.
- Thompson, Carl G., Knoxville, Tenn. Filled-sack-sewing machine. No. 1,403,922; Jan. 17.
- Thompson, Carl G., Knoxville, Tenn. Driving mechanism. No. 1,403,923; Jan. 17.
- Thompson, Carl G., Knoxville, Tenn. Sifter. No. 1,407,601; Feb. 21.
- Thompson, Charles D., Kirksville, Mo. Airship. No. 1,425,555; Aug. 15.
- Thompson, Charles E., et al. (See Bartlett, W. D., and Marquis, assignors.)
- Thompson, Charles E., assignor to The Mine & Smelter Supply Company, Denver, Colo. Self-oiling rocker bearing. No. 1,406,780; Feb. 14.
- Thompson, Charles F., Los Angeles, Calif. Advertising curtain for theaters. No. 1,429,802; Sept. 19.
- Thompson, Charles W., Quincy, assignor of one-half to E. J. Tucker, Malden, Mass. Fruit jar and like receptacle. No. 1,410,142; Mar. 21.
- Thompson, Charles W., Quincy, assignor of one-half to E. J. Tucker, Malden, Mass. Fruit jar, etc. No. 1,420,892; June 27.
- Thompson, Clarence W., and W. J. Quigley, assignors to Riverview Cemetery Company, Wilmington, Del. Burial vault. No. 1,427,243; Aug. 29.
- Thompson, Don N., Syracuse, assignor to Pass & Seymour, Inc., Solway, N. Y. Electric switch. No. 1,430,770; Oct. 3.
- Thompson, Earl A., Portland, Oreg. Automatic gear-shifting mechanism for sliding gear transmission. No. 1,435,430; Nov. 14.
- Thompson, Elmer, Eau Claire, Wis. Power grubber. No. 1,417,425; May 23.
- Thompson, Elmer B., assignor to Thompson Manufacturing Company, Des Moines, Iowa. Pump mechanism. (Reissue.) No. 15,415; July 18.
- Thompson, Elmer B., and E. B. Carr, assignors to Thompson Manufacturing Company, Des Moines, Iowa. Transferring liquids. No. 1,419,478; June 13.
- Thompson, Emery, New Rochelle, N. Y. Ice-cream freezer. No. 1,407,044; Feb. 21.
- Thompson, Ernest H., Chicago, Ill., assignor to Johnson Fare Box Co. Coin-dispensing apparatus. No. 1,404,909; Jan. 31.
- Thompson, Eugene A., Syracuse, N. Y. Winding and dyeing machine. No. 1,415,964; May 16.
- Thompson, Frank. (See Sluyter, William, assignor.)
- Thompson, Frank E., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,422,497; July 11.
- Thompson, Fred C., Oakland, Calif. Wrench. No. 1,411,135; Mar. 28.
- Thompson, Fred H., and E. Holmes, assignors to The Willys-Overland Company, Toledo, Ohio. Automobile decking. No. 1,421,747; July 4.
- Thompson, George, Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Impulse sender. No. 1,432,925; Oct. 24.
- Thompson, George H., and J. Currie, Seattle, Wash. Screw propeller. No. 1,418,991; June 6.

- Thompson, George K., Maplewood, N. J., assignor to American Telephone and Telegraph Company. Anti-side-tone hand set. No. 1,402,322; Jan. 3.
- Thompson, George K., Maplewood, N. J., assignor to American Telephone and Telegraph Company. Means for equalizing transmission over lines of different electrical characteristics. No. 1,415,907; May 16.
- Thompson, George S., Randwick, near Sydney, New South Wales, Australia. Device for treating surgical wounds. No. 1,405,355; Jan. 31.
- Thompson, Harmon, Muskegon, Mich. Trap. No. 1,404,070; Jan. 17.
- Thompson, Harold E., Indianapolis, Ind. Phonograph-record-playing repeater. No. 1,412,148; Apr. 11.
- Thompson, Harold E., Clendenin, W. Va., assignor to Carbide & Carbon Chemicals Corporation. Treating natural gas and product thereof. No. 1,429,175; Sept. 12.
- Thompson, Harry J., San Francisco, Calif. Packing strip for bottles and the like. No. 1,404,071; Jan. 17.
- Thompson, Henry A., Dewdney, British Columbia, Canada. Orchard ladder. No. 1,438,411; Dec. 12.
- Thompson, Henry B., assignor of one-third to K. D. Thompson and one-third to J. Fitzsimmons, San Antonio, Tex. Vapor medicating apparatus. No. 1,416,244; May 16.
- Thompson, Henry P., Chicago, Ill. Spot lamp. No. 1,432,308; Oct. 17.
- Thompson, James. (See Stroh, W. Y., and Thompson.)
- Thompson, James, Greeley, Colo. Potato-grading machine. No. 1,431,270; Oct. 10.
- Thompson, James, & Co. (See Pike, Clinton B., assignor.)
- Thompson, James A., Rushville, Ill. Ratchet wrench and tool. No. 1,413,243; Apr. 18.
- Thompson, James H., Trenton, assignor to Hussong Dyeing Machine Company, Groveville, N. J. Dyeing machine. No. 1,440,251; Dec. 26.
- Thompson, James P. (See Johnson, J. A., and Thompson.)
- Thompson, James S., Pelham, N. Y., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del. Brake shoe. No. 1,402,116; Jan. 3.
- Thompson, James S., Pelham, N. Y., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del. Brake shoe. No. 1,402,117; Jan. 3.
- Thompson, John, (Gas Developments) Limited. (See Maxted, Edward B., assignor.)
- Thompson, John, Chicago, Ill. Coupling mechanism. No. 1,402,912; Jan. 10.
- Thompson, John C., Boston, Mass. Overhead-valve-spring compressor. No. 1,405,696; Feb. 7.
- Thompson, John D., Rochester, N. Y. Printing frame. No. 1,421,859; July 4.
- Thompson, John G., London, Ontario, Canada. Straw holder. No. 1,420,297; June 20.
- Thompson, John I., assignor to The Koppers Company, Pittsburgh, Pa. Acid regenerator. No. 1,402,194; Jan. 3.
- Thompson, John I., assignor to The Koppers Company, Pittsburgh, Pa. Heat exchanger. No. 1,411,313; Apr. 4.
- Thompson, John P., Fairmont, W. Va. Attachment for transits. No. 1,432,309; Oct. 17.
- Thompson, John S., Chicago, Ill. Printing machine. No. 1,416,390; May 16.
- Thompson, John S., Chicago, Ill. Strip-casting machine. No. 1,423,474; July 18.
- Thompson, John S., San Francisco, Calif., assignor to Mergenthaler Linotype Company. Typographical composing, casting, and distributing machine. No. 1,427,501; Aug. 29.
- Thompson, John T., Newport, Ky., assignor to Auto-Ordnance Corporation, New York, N. Y. Breech mechanism for guns. No. 1,425,808; Aug. 15.
- Thompson, John T., Newport, Ky., assignor to Auto-Ordnance Corporation, New York, N. Y. Breech-closure mechanism. No. 1,425,809; Aug. 15.
- Thompson, John T., Newport, Ky., assignor to Auto-Ordnance Corporation, New York, N. Y. Automatic gun. No. 1,425,810; Aug. 15.
- Thompson, Kenna D., et al. (See Thompson, Henry B., assignor.)
- Thompson, Leonard M., Dayton, Wash. Store fixture. No. 1,439,534; Dec. 19.
- Thompson, Lester M., Taylorville, Ill. Planter. No. 1,431,767; Oct. 10.
- Thompson, Livingston A., Waukesha, Wis. Malted-milk confection. No. 1,434,667; Nov. 7.
- Thompson, Louis W., Schenectady, N. Y., assignor to General Electric Company. Speed-regulating system. No. 1,403,137; Jan. 10.
- Thompson, Louis W., Schenectady, N. Y., assignor to General Electric Company. Speed regulation of alternating-current motors. No. 1,408,844; Mar. 7.
- Thompson, Louis W., Schenectady, N. Y., assignor to General Electric Company. Automatic regulating system. No. 1,419,778; June 13.
- Thompson Manufacturing Company. (See Thompson, E. B., and Carr, assignors.)
- Thompson Manufacturing Company. (See Thompson, Elmer B., assignor.)
- Thompson, Margaret J. (See Ford, Alpha A., assignor.)
- Thompson, Mary E., Fort Worth, Tex. Hair-wave former. No. 1,408,146; Feb. 28.
- Thompson, Olof, New York, N. Y. Magnet-locking device. No. 1,404,910; Jan. 31.
- Thompson, Olof, New York, assignor to E. S. Perot, Yonkers, N. Y. Alternating-current relay. No. 1,420,067; June 20.
- Thompson, Osceola C., White Plains, N. Y., assignor to Wirebounds Patents Company. Machine for use in making boxes. No. 1,406,105; Feb. 7.
- Thompson, Osceola C., White Plains, N. Y., assignor to Wirebounds Patents Company, Kittery, Me. Machine for use in making box parts or boxes. No. 1,410,422; Mar. 21.
- Thompson, Osceola C., White Plains, N. Y., assignor to Wirebounds Patents Company. Machine for use in making boxes. No. 1,438,932; Dec. 12.
- Thompson, Peter H., Rome Township, Faribault County, Minn. Tandem two-belt fan drive for tractor engines. No. 1,429,464; Sept. 19.
- Thompson, Ralph B., Brookline, Mass. Pile wire. No. 1,419,527; June 13.
- Thompson, Robert D. (See Penrod, J., and Thompson.)
- Thompson, Robert M., Tacoma, Wash. Recovering products from whole fish of the shark family and from offal of these and other fish. No. 1,413,200; Apr. 18.
- Thompson, Salmon, Cedar Falls, Iowa. Condensing steamer. No. 1,439,204; Dec. 19.
- Thompson, Samuel H., Los Angeles, Calif. Toothbrush sterilizer and retainer. No. 1,419,593; June 13.
- Thompson, Sherman, La Salle, assignor to Illinois Zinc Company, Peru, Ill. Sheet-metal shingle. No. 1,434,166; Oct. 31.
- Thompson, Steele L., Home, Pa. Automobile alarm. No. 1,417,700; May 30.
- Thompson, Thomas. (See James, Thomas J., assignor.)
- Thompson, Thomas, Makoti, N. Dak. Lock. (Reissue.) No. 15,307; Mar. 14.
- Thompson, Thomas, Makoti, N. Dak. Lock. No. 1,411,314; Apr. 4.
- Thompson, Thomas T., et al. (See Edwards, Van Every, assignor.)
- Thompson, William, and W. J. Roy, Springfield, Mass., assignors to Consolidated Tool Works, Inc., New York, N. Y. Drive for drills and similar tools. No. 1,422,322; July 11.
- Thompson, William L., Greenville, Miss. Operating mechanism for trailer vehicles. No. 1,410,083; Mar. 21.
- Thompson, William L., Greenville, Miss. Bucket. No. 1,423,047; July 18.
- Thompson, William O., Cleveland, Ohio. Railway-car-wall construction. No. 1,410,778; Mar. 28.
- Thompson, Willsie A. S. (See Gunn, R. W., and Thompson.)
- Thomson, August, Glendale, N. Y. Machine for making metal spouts and tubes. No. 1,402,913; Jan. 10.
- Thomson, Byron C., New Orleans, La., assignor to Emerson-Brantingham Company, Rockford, Ill. Ridging plow. No. 1,421,109; June 27.
- Thomson, David, Herne Hill, London, England. Preparation of detoxicated vaccines. No. 1,409,796; Mar. 14.
- Thomson, David, London, England. Extraction of proteids and lactose from whey. No. 1,423,820; Sept. 12.
- Thomson, George M., Montclair, N. J. Folding crib. No. 1,437,623; Dec. 5.
- Thomson, Henry, Perth, Western Australia, and W. R. Oyston, Kensington, near Sydney, New South Wales, Australia; said Oyston assignor to said Thomson. Automatic music-sheet-tracking device for player pianos and other instruments. No. 1,434,722; Nov. 7.
- Thomson, John, Brooklyn, N. Y. Method and means for producing oxide of zinc. No. 1,425,917; Aug. 15.
- Thomson, John, Brooklyn, N. Y. Method and means for producing oxide of zinc. No. 1,425,918; Aug. 15.
- Thomson, John, Brooklyn, N. Y. Engine piston. No. 1,426,022; Aug. 15.
- Thomson, Judson L. (See Havener, A. R.)
- Thomson, Procter, and M. J. Whelan, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill. Aeronautical propeller. No. 1,419,180; June 13.
- Thomson, S. H., Manufacturing Company, The. (See Thomson, S. H., and Hummert, assignors.)
- Thomson, S. H., Manufacturing Company, The. (See Thomson, Samuel H., assignor.)
- Thomson, Samuel H., assignor to The S. H. Thomson Manufacturing Company, Dayton, Ohio. Spotlamp for automobiles and the like. No. 1,426,023; Aug. 15.
- Thomson, Samuel H., and R. H. Hummert, assignors to The S. H. Thomson Manufacturing Company, Dayton, Ohio. Spot lamp for automobiles and the like. No. 1,438,196; Dec. 12.
- Thomson Spot Welder Company. (See Sander, Jacob C., assignor.)
- Thomson, William H., Peoria, Ill. Cushion ring for expanding gas-engine piston rings. No. 1,307,602; Feb. 21.
- Thomson, William H., Peoria, Ill. Piston-ring-contracting tool. No. 1,432,138; Oct. 17.
- Thomson, William I. (See Conwell, W. L., and Thomson.)
- Thomson, William S., assignor to The H. D. Smith & Company, Plantsville, Conn. Screw driver. No. 1,410,521; Mar. 21.

Alphabetical list of patentees—Continued.

- Thorbjornson, Anna C., Nadeau, Mich. Nipple for nursing bottles. No. 1,414,904; May 2.
- Thordarson, Chester H., Chicago, Ill. Laminated magnetic circuit structure for transformers. No. 1,406,245; Feb. 14.
- Thoreson, Peter, Baldi, Wash. Composition for shoe dressing. No. 1,415,208; May 9.
- Thorhaug, Peter, Minneapolis, Minn. Embalming instrument. No. 1,410,143; Mar. 21.
- Thorn, Louis F., Yonkers, N. Y. Cotter pin. No. 1,408,487; Mar. 7.
- Thornburgh, Ivan D., Berkeley, assignor to American Can Company, San Francisco, Calif. Apparatus for lining can ends. No. 1,408,783; Mar. 7.
- Thornburgh, Ivan D., Berkeley, assignor to American Can Company, San Francisco, Calif. Organized apparatus for lining can ends and seaming same to can bodies. No. 1,433,047; Oct. 24.
- Thorne, Arthur E., New York, N. Y. Spring suspension for vehicles. No. 1,433,432; Oct. 24.
- Thorne Brothers, Incorporated. (See Anderson, Carl O., assignor.)
- Thorne, Edward A., Leatherhead, England. Device for displaying advertisements. No. 1,434,236; Oct. 31.
- Thorne, Harold, New York, N. Y. Door-securing device. No. 1,421,746; July 4.
- Thorne, Josiah C., San Juan, Calif. Calendar. No. 1,413,779; June 13.
- Thorne, Rougier, Glen Cove, N. Y. Lantern. No. 1,413,244; Apr. 18.
- Thorne, Bernard D. (See Bancroft, Benjamin M., assignor.)
- Thorne, Walther, Berlin, Germany. Device for lessening the visibility of an object on the water. No. 1,434,167; Oct. 31.
- Thornhill, Edwin B., Hurley, N. Mex. Treatment of ores containing oxides of copper. No. 1,407,045; Feb. 21.
- Thornton, Arthur C., assignor to The Blackburn Aeroplane & Motor Company Limited, Leeds, England. Mechanism carried by aircraft for adjusting torpedoes. No. 1,420,592; June 20.
- Thornton, Civilian J., Millington, Mich. Dumping vehicle body. No. 1,434,168; Oct. 31.
- Thornton, Edgar R. (See Clouser, H. E., and Thornton.)
- Thornton, Edward F., Oreana, Idaho. Figure toy. No. 1,432,641; Oct. 17.
- Thornhill, Edwin B. (See Tisdale, G. H., Anderson, and Thornhill.)
- Thornton, Frank, jr., Mansfield, Ohio, assignor to Westinghouse Electric Products Company. Electric car-heating system. No. 1,433,758; Oct. 31.
- Thornton, Frank, jr., Mansfield, Ohio, and F. F. Forshee, Flint, Mich., assignors to Westinghouse Electric Products Company. Detachable circulating water-heater unit. No. 1,438,621; Dec. 12.
- Thornton, Frederick, Huntington, W. Va., assignor to Thornton Trolley Wheel Co., Ashland, Ky. Trolley harp. No. 1,424,950; Aug. 8.
- Thornton, John, Youngstown, Ohio. Furnace-door frame. No. 1,407,708; Feb. 28.
- Thornton, John E., West Hampstead, London, assignor to J. O. O'Brien, Manchester, England. Photographic-printing process. No. 1,408,312; Feb. 28.
- Thornton, John E., West Hampstead, London, assignor to J. O. O'Brien, Manchester, England. Photographic-printing process. No. 1,408,313; Feb. 28.
- Thornton, John E., West Hampstead, London, assignor to J. O. O'Brien, Manchester, England. Photographic-printing process. No. 1,408,314; Feb. 28.
- Thornton, John E., West Hampstead, London, assignor to J. O. O'Brien, Manchester, England. Photographic-printing process. No. 1,408,315; Feb. 28.
- Thornton, John E., West Hampstead, London, assignor to J. O. O'Brien, Manchester, England. Photographic-printing process. No. 1,435,759; Nov. 14.
- Thornton, John E., West Hampstead, London, assignor to J. O. O'Brien, Manchester, England. Photographic-printing process. No. 1,435,760; Nov. 14.
- Thornton, R. L., et al., trustees. (See Pelot, Frank D., assignor.)
- Thornton, Ray, New Bedford, Mass. Loom beam. No. 1,430,865; Oct. 3.
- Thornton Trolley Wheel Co. (See Thornton, Frederick, assignor.)
- Thornycroft, Isaac T., (usually known as Tom Thornycroft), Westminster, England. Starting mechanism for internal-combustion engines. No. 1,414,233; Apr. 25.
- Thornycroft, John I., Bembridge, Isle of Wight, England. Juice-extraction apparatus. No. 1,409,797; Mar. 14.
- Thornycroft, Tom. (See Thornycroft, Isaac T.)
- Thorp, Franklin and H. T., Whitefield, England. Gas and like meter. No. 1,424,220; Aug. 1.
- Thorp, Harvey T. (See Thorpe, Franklin and H. T.)
- Thorpe, Joseph M. and W. C., Oakland, Calif. Child's vehicle. No. 1,418,266; May 30.
- Thorpe, Samuel T., Bristol, Conn. Fishing-reel oil-cap protector. No. 1,405,729; Feb. 7.
- Thorpe, William C. (See Thorpe, Joseph M. and W. C.)
- Thorpe, William H., Mount Vernon, N. Y. Portable lamp. No. 1,432,429; Oct. 17.
- Thorsteinson, Dora, Point Roberts, Wash. Shuttle. No. 1,411,136; Mar. 28.
- Thrasher, Elmer E., South Cumberland, Md. Attacher and automatic sealer for camera films. No. 1,411,982; Apr. 4.
- Thrasher, Elmer E., South Cumberland, Md. Attacher and automatic sealer for camera films. (Reissue.) No. 15,377; June 6.
- Throne, Penn L., Harrisburg, Pa. Combination automatic window lock, balance, and lift. No. 1,420,503; June 20.
- Throne, Robert P., Syracuse, N. Y. Machine for making chaplets. No. 1,423,586; July 25.
- Thronsen, Sigurd, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Leading-in-wire assembly for vacuum tubes. No. 1,432,926; Oct. 24.
- Thronson, Clarence G., Detroit, Mich. Vessel handle shield. No. 1,411,070; Mar. 28.
- Throop, D. R. (See Conley, John M., assignor.)
- Throop, Newton A., Chicago, Ill. Vacuum cleaner. No. 1,413,545; Apr. 18.
- Throp, Erve E., and R. J. Sutton, Angola, assignors of one-half to G. H. Everett and one-half to M. R. Kavanagh, South Bend, Ind. Headlight-turning device. No. 1,432,642; Oct. 17.
- Thuey, Lee L., Indianapolis, Ind. Frozen confection and making same. No. 1,437,162; Nov. 28.
- Thru-Wu Schreibwaren-Werke Gesellschaft mit beschränkter Haftung. (See Luyken, William C. W., assignor.)
- Thu, Martin, Bakersfield, Calif. Crank holder. No. 1,421,860; July 4.
- Thueringer, Frank, Sauk Rapids, Minn. Wrench. No. 1,406,106; Feb. 7.
- Thesen, Godfred C., San Francisco, and E. C. Strickland, San Jose, Calif. Laundry truck. No. 1,421,110; June 27.
- Thullen, Louis H., Grand Rapids, Mich. Sawing machine. No. 1,405,697; Feb. 7.
- Thum, George E., Elizabeth, N. J. Combination keyless lock. No. 1,437,028; Nov. 28.
- Thum, Rudolf, Baldwin, N. Y. Sanitary tooth cleaner. No. 1,414,604; May 2.
- Thumm, Christian G., assignor to National Casket Company, Pittsburgh, Pa. Fastening for casket coverings. No. 1,412,299; Apr. 11.
- Thumpeter, George, Alliance, Ohio. Ice pick. No. 1,424,221; Aug. 1.
- Thumthum Products, Inc. (See Smith, John A., assignor.)
- Thun, Hermann, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Surface-measuring machine, particularly intended for the measurement of leather. No. 1,402,118; Jan. 3.
- Thun, Hermann, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Area-measuring machine. No. 1,412,095; Apr. 11.
- Thun, Hermann, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Surface-measuring apparatus. No. 1,426,426; Aug. 22.
- Thun, Hermann, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Automatic stamp-delivery machine. No. 1,427,136; Aug. 29.
- Thun, Hermann, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Surface-measuring device especially for leather. No. 1,429,803; Sept. 19.
- Thurber, Luman T., Brookline, Mass. Photographic enlarger. No. 1,418,690; June 6.
- Thureson, John A., Eureka, Calif. Hunting and fishing jacket. No. 1,426,024; Aug. 15.
- Thuringer, Charles W. (See Sethman, George H., assignor.)
- Thurlow, Victor J. (See Wilson, Melven G., assignor.)
- Thurmond, William T. (See Goodwin, C. B., and Thurmond.)
- Thurston, Albert, London, England. Strip or sheet metal structure. No. 1,421,618; July 4.
- Thurston, Arthur L. (See Kirkham, C. B., and Thurston.)
- Thurston, David W. (See Gass, E. J., and Thurston.)
- Thurston, Ernest B., assignor to The Houghton Elevator & Machine Co., Toledo, Ohio. Electric-brake controller. No. 1,435,565; Nov. 14.
- Thurston, Frank S., Chicago, Ill. Feeding device. No. 1,423,698; July 25.
- Thurston, Herman B. (See Jackson, William S., assignor.)
- Thurston, Herman B. (See Talmage, John G., assignor.)
- Thurston, Herman B., Pittsburgh, Pa. Low-water alarm. No. 1,414,161; Apr. 25.
- Thurston, Julius T., assignor of one-half to F. B. Briare, Stockton, Calif. Picker buffer for looms. No. 1,417,954; May 30.
- Thwaites, William H., Grand Rapids, Mich. X-ray cabinet and machine. No. 1,423,635; July 25.
- Thwing, Charles B., assignor to Thwing Instrument Company, Philadelphia, Pa. Graphic recorder. No. 1,418,183; May 30.
- Thwing Instrument Company. (See Thwing, Charles B., assignor.)
- Thybon, Nels W. (See Gyllin, Berth U. S., assignor.)
- Tibbals, Albert D., St. Louis, Mo. Staple strip. No. 1,407,709; Feb. 28.
- Tibbals, Frank A., Riverside, assignor to Belden Manufacturing Company, Chicago, Ill. Insulating head. No. 1,411,672; Apr. 4.
- Tibbals, Walter H., Syracuse, N. Y. Hand fire extinguisher. No. 1,425,297; Aug. 8.

- Tibbatts, James, Jersey City, N. J. Metallic nursing bottle. No. 1,434,460; Nov. 7.
- Tibbets, Thomas, assignor of three-fourths to J. C. Tibbets, Ellicott City, Md. Process and apparatus for producing and maintaining a vacuum. No. 1,427,656; Aug. 20.
- Tibbetts, John C. (See Tibbets, Thomas, assignor.)
- Tibbetts, Milton, assignor, by mesne assignments, to Security Trust Company, Detroit, Mich. Gear cutter. No. 1,411,390; Apr. 4.
- Tibbitts, George S., Clarksburg, W. Va. Method of and form for bending chute irons. No. 1,436,549; Nov. 21.
- Tibble, Frederick, Grand Rapids, Mich. Valve. No. 1,412,722; Apr. 11.
- Tickometer Company, The. (See Kimball, Robert E., assignor.)
- Tiddy, William, Norristown, Pa., assignor to Rainey-Wood Coke Company, New York, N. Y. Removal of paints, varnishes, etc. No. 1,417,955; May 30.
- Tide Water Oil Company. (See Edwards, Joseph B., assignor.)
- Tidewater Paper Mills Company. (See Allen, A. F., McCoy, and Sternberger, assignors.)
- Tidmarsh, Harry E., assignor to Union Iron Works, Bangor, Me. Wood-pulp grinder. No. 1,405,356; Jan. 31.
- Tidswell, Hubert R., Wittington, England. Sex calculator. No. 1,428,065; Sept. 5.
- Tidwell, James G., et al. (See Cox, Thomas E., assignor.)
- Tidwell, John W., assignor of one-half to J. Fitzgerald, Tulsa, Okla. Revolving ventilator. No. 1,407,179; Feb. 21.
- Tiedeman, Charles E., Gloversville, N. Y. Catapult and projectile therefor. No. 1,405,075; Jan. 31.
- Tiedemann, Henry, assignor to Splittdorf Electrical Company, Newark, N. J. Generator attachment means for gas engines. No. 1,402,548; Jan. 3.
- Tiedemann, Henry F., assignor to Theo. Tiedemann & Sons, Inc., New York, N. Y. Box for garments. No. 1,435,673; Nov. 14.
- Tiedemann, Theo., & Sons, Inc. (See Cuthbert, Robert F., assignor.)
- Tiedemann, Theo., & Sons, Inc. (See Hoffman, John H., assignor.)
- Tiedemann, Theo., & Sons, Inc. (See Tiedemann, Henry F., assignor.)
- Tiefert, John A., Miami, Fla. Display refrigerator. No. 1,402,119; Jan. 3.
- Tiemann, Fritz, Berlin-Wilmersdorf, Germany. Purifying sugar juices by filtration and decantation. No. 1,430,200; Sept. 26.
- Tiencken, John H., Charleston, S. C. Card game. No. 1,426,928; Aug. 22.
- Tietz, Walter M., Newark, N. J. Amusement device. No. 1,439,205; Dec. 19.
- Tiffany, Don G., Newark, assignor to W. W. Jones, Flint, Mich. Vehicle drive transmission system. No. 1,424,951; Aug. 8.
- Tiffany, Edward V. (See Rymer, John A., assignor.)
- Tiffany, George S., Summit, N. J., assignor to Telautograph Corporation, Richmond, Va. Pantograph apparatus. No. 1,408,045; Feb. 28.
- Tiffany, George S., Summit, N. J., assignor to Telautograph Corporation, Richmond, Va. Telautographic apparatus. No. 1,426,233; Aug. 15.
- Tiffany, Gerald W., assignor of one-half to N. J. Fitzsimmons, New York, N. Y. Device for protecting safes or other enclosures. No. 1,422,903; July 18.
- Tiffany, Hiero G., St. Louis, Mo. Selecting machine for cards and other objects. No. 1,405,076; Jan. 31.
- Tiffany, Hiero G., St. Louis, Mo. Stand. No. 1,426,327; Aug. 15.
- Tiffany, Hiero G., assignor to Simplex Steel Stamping & Manufacturing Company, St. Louis, Mo. Stand. No. 1,426,328; Aug. 15.
- Tiffany, Homer A., assignor to Benjamin Buckley's Son, Inc., Paterson, N. J. Spindle. No. 1,414,905; May 2.
- Tiffany, James W., Buchanan, Mich. Camping stove. No. 1,433,247; Oct. 24.
- Tiffany, Leverett W., Winsted, Conn. Dispensing device. No. 1,405,357; Jan. 31.
- Tiffany, Leverett W., Winsted, Conn. Dispensing device. No. 1,406,781; Feb. 14.
- Tiffany, Louis L., Ashmont, Mass. Viscosimeter. No. 1,427,922; Sept. 5.
- Tiffany, William S., et al. (See Cremer, Frederick, assignor.)
- Tift, Herbert L., Willimantic, Conn. Sound-box diaphragm. No. 1,423,368; July 18.
- Ti-It Machine Co. (See Wood, George, assignor.)
- Tilden, Bert O., assignor to B. O. T. Mfg. Co., Trenton, N. J. Flush tank. No. 1,429,304; Sept. 19.
- Tilford, James U., near Meeker, Colo. Wire stretcher. No. 1,436,216; Nov. 21.
- Till, George W., Philadelphia, Pa. Tremolo action for organs. No. 1,439,652; Dec. 19.
- Till, Peter, New York, N. Y. Crochet-needle holder and magazine. No. 1,420,893; June 27.
- Tillar, Henry J., Alameda, assignor of one-half to T. H. Crawford, Harris County, Tex. Lifting jack. No. 1,439,492; Dec. 19.
- Tillery, David H., Newark, N. J. Time-controlled switch. No. 1,414,057; Apr. 25.
- Tilling, Joseph S., and H. Dobbins, Warrington, England. Apparatus for turning handles from round stock. No. 1,415,416; May 9.
- Tilling-Stevens Limited. (See Smith, Percy F., assignor.)
- Tillman, Ferdinand J., et al. (See Myers, Charles E., assignor.)
- Tillman, Joseph T., and P. Schweich, Minneapolis, Minn. Device for applying, removing, and sealing jar covers of Mason jars. No. 1,407,710; Feb. 28.
- Tillson, Benjamin F., Franklin, N. J. Fluid rheostat. No. 1,416,908; May 23.
- Tillson, Edwin D., assignor to Associated Engineers Company, Chicago, Ill. Lighting-fixture-cleaning device. No. 1,415,065; May 9.
- Tillyer, Edgar D. (See Sheard, C., and Tillyer.)
- Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Eye protector. No. 1,404,668; Jan. 24.
- Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Lens. No. 1,406,782; Feb. 14.
- Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Illuminating and projection apparatus. No. 1,434,268; Oct. 31.
- Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Making multifocal lenses. No. 1,436,217; Nov. 21.
- Tilt, Charles A., Chicago, Ill. Automobile engine suspension. No. 1,410,779; Mar. 28.
- Tilton, Elvin, Encampment, Wyo., assignor, by mesne assignments, to Pennsylvania-Kentucky Oil and Gasoline Refining Company, Wheeling, W. Va. Safety lock joint. No. 1,425,724; Aug. 15.
- Tilton, Frank A., et al. (See Cole, Albert L., assignor.)
- Tilton, Lewis W., Miami, Fla. Building form. No. 1,438,069; Dec. 5.
- Tilton, Samuel M. (See Hannah, G. K., Tilton, and Kaarlela.)
- Timberlake, Joseph C., Wheeling, W. Va. Machine for separating stickers on the opening floors of tin mills. No. 1,427,177; Aug. 29.
- Timberlake, Paul J., Jackson, Mich. Holder for electric lights and other purposes. No. 1,402,685; Jan. 3.
- Timberlake, Paul J., Jackson, Mich. Holder for electric lights and other purposes. No. 1,406,913; Feb. 14.
- Time-Rite Manufacturing Company. (See Goldstein, Abraham S., assignor.)
- Timken-Detroit Axle Company, The. (See Alden, Herbert W., assignor.)
- Timken-Detroit Axle Company. (See Brown, P., and Bostock, assignors.)
- Timken-Detroit Axle Company, The. (See Vanderbeek, Herbert, assignor.)
- Timken Roller Bearing Company, The. (See Buckwalter, Tracy V., assignor.)
- Timken Roller Bearing Company, The. (See Hauser, A., and Lothrop, assignors.)
- Timken Roller Bearing Company, The. (See Lothrop, Marcus T., assignor.)
- Timken Roller Bearing Company. (See McQuaid, Harry W., assignor.)
- Timken Roller Bearing Company, The. (See Schlaupitz, Oswald, assignor.)
- Timken Roller Bearing Company, The. (See Stoffer, Roy S., assignor.)
- Timken Roller Bearing Company, The. (See Strong, Ernest G., assignor.)
- Timm, Friedrich C. W., Hamburg, Germany. Recovery of zinc oxide from zinciferous materials, especially slag. No. 1,409,318; Mar. 14.
- Timm, Otto F., Wilson Creek, Wash. Bushing inserter or remover. No. 1,422,390; July 11.
- Timm, William A. (See Griffin, J. T., Timm, and Santschi.)
- Timm, William A., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Soldering iron. No. 1,430,603; Oct. 3.
- Timmerman, Frederic, New York, N. Y. Spring compressor. No. 1,428,566; Sept. 12.
- Timmerman, Frederick W., St. Louis, Mo. Tent. No. 1,406,301; Feb. 14.
- Timmons, John S., New York, N. Y. Electric switch. No. 1,407,603; Feb. 21.
- Timmons, John S., Yonkers, N. Y. Combined telephone receiver and transmitter. No. 1,428,567; Sept. 12.
- Timmons, John S., New York, N. Y., assignor, by mesne assignments, to International Callophone Corporation. Casing for telephone sets. No. 1,412,982; Apr. 18.
- Timmons, John S., New York, N. Y., assignor, by mesne assignments, to International Callophone Corporation. Telephone receiver. No. 1,414,105; Apr. 25.
- Timson, Charles E., Chicago, Ill. Animal marker. No. 1,436,119; Nov. 21.
- Tin Decorating Company of Baltimore, The. (See Hermani, Henry, assignor.)
- Tindall, Carl A., and J. R. Showers, Shelbyville, Ind.; said Tindall assignor to said Showers. Attachment for adding machines. No. 1,436,218; Nov. 21.
- Tindall, Jerome L., Pueblo, Colo. Water-tube steam producer. No. 1,412,904; Apr. 18.
- Tingle, Claude. (See Kelly, T. W., and Tingle.)
- Tingleaf, Albert J., Riverside, Calif. Rabbeting machine. No. 1,413,201; Apr. 18.
- Tingstrom, Jesse F., Los Angeles, Calif. Lunch box. No. 1,412,761; Apr. 11.

Alphabetical list of patentees—Continued.

- Tingwall, Lloyd G., and A. J. Johnson, St. Paul, Minn., assignors to Standard Conveyor Company. Controller for intersecting conveyers. No. 1,425,556; Aug. 15.
- Tingwall, Lloyd G., and A. J. Johnson, St. Paul, Minn., assignors to Standard Conveyor Company. Converger for conveyers. No. 1,425,557; Aug. 15.
- Tinius Olsen Testing Machine Company. (See Foster, Louis E., assignor.)
- Tino, Antonio, and A. H. Roth, New York, N. Y. Anti-theft device for automobiles. No. 1,435,431; Nov. 14.
- Tinsley, Louis C., New York, N. Y. Typographical machine. No. 1,406,107; Feb. 7.
- Tinsley, Louis C., New York, N. Y. Typographical slug. No. 1,427,706; Aug. 29.
- Tinsley, Louis C., New York, N. Y. Mold for typographical slugs. No. 1,428,459; Sept. 5.
- Tipsord, Melvin T. (See Wood, C. R., and Tipsord.)
- Tirometer Valve Corporation of America. (See Badowski, Alfred, assignor.)
- Tirrill, Allen A., Pittsburgh, Pa. Connecting link. No. 1,436,786; Nov. 28.
- Tirrill, Allen A., assignor to The Clamert Manufacturing Company, Pittsburgh, Pa. Securing device. No. 1,403,655; Jan. 17.
- Tisch, George C. L., Elizabeth, N. J. Combination plate and thread guide. No. 1,422,799; July 11.
- Tisch, George C. L., assignor to Tisch Machine Tool and Die Works, Elizabeth, N. J. Jacquard link and drum. No. 1,419,084; June 6.
- Tisch, George C. L., assignor to Tisch Machine & Tool Works, Elizabeth, N. J. Pin guard. No. 1,421,861; July 4.
- Tisch Machine & Tool Works. (See Tisch, George C. L., assignor.)
- Tischer, Arthur. (See Leoni, A. M., and Tischer.)
- Tischer, Edward R., Houston, assignor of forty per cent to G. Emmert, Harris County, Tex. Cotton gin. No. 1,418,106; Mar. 30.
- Tisdale, Gordon H., H. G. S. Anderson, and E. B. Thornhill, Hurley, N. Mex. Gap adjuster for spark plugs. No. 1,431,708; Oct. 10.
- Tisler, Frederic P., Chicago, Ill. Hay-carrier track. No. 1,410,780; Mar. 28.
- Titan Co., A/S. (See Goldschmidt, Victor M., assignor.)
- Titan Co. A/S. (See Washburn, Willis F., assignor.)
- Titanium Pigment Company. (See Barton, Louis E., assignor.)
- Titchmarsh, John E., Silver Creek, N. Y. Separating machine. No. 1,420,593; June 20.
- Titeflex Metal Hose Corporation. (See Brinkman, Louis H., assignor.)
- Title Guarantee and Trust Company, The. (See MacGregor, D. G., Millen, and Stanley, assignors.)
- Title Guarantee and Trust Company. (See Stanley, John C. W., assignor.)
- Tittmore, Frank A., and C. S. Renwick, Richmond, Calif. Pumping apparatus. No. 1,435,761; Nov. 14.
- Titterington, Morris M., Brooklyn, N. Y. Air-distance indicator. No. 1,402,270; Jan. 3.
- Tittle, Reuben D., Springfield, Ohio. Washing machine. No. 1,419,427; June 13.
- Titus Manufacturing Company, The. (See Titus, Thomas L., assignor.)
- Titus, Richard, Bowling Green, Ohio. Spring winder. No. 1,437,277; Nov. 28.
- Titus, Thomas L., assignor to The Titus Manufacturing Company, Omaha, Nebr. Flush valve. No. 1,412,905; Apr. 18.
- Tizley, Arthur J., Brooklyn, N. Y., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric switch. No. 1,434,972; Nov. 7.
- Tjenall, Erick, Omaha, Nebr. Saw. No. 1,429,549; Sept. 19.
- Thucka, Louis, Boonton, N. J., assignor to Van Raalte Company, Inc., New York, N. Y. Fancy knitting attachment for knitting machines. No. 1,427,983; Sept. 5.
- Toadvine, Ernest W., Los Angeles, Calif. Sun shield for automobiles. No. 1,427,038; Aug. 22.
- Toal, Robert, St. Louis, Mo., assignor to The Mengel Company, Louisville, Ky. Child's rocker. No. 1,412,723; Apr. 11.
- Toan, Fred W., Bowling Green, Ohio, Universal joint. No. 1,407,361; Feb. 21.
- Toay, Curtiss J. (See Dillon, W. C., Toay, and Haney.)
- Toay, William H. (See Dillon, W. C., Toay, and Haney.)
- Tobeler, Max E., Detroit, Mich. Explosive engine. No. 1,438,877; Dec. 12.
- Tobey, James V., Tara, Ontario, Canada. Dispensing showcase. No. 1,412,983; Apr. 18.
- Tobey, Fred W., Grand Rapids, Mich. Metal receptacle. No. 1,427,244; Aug. 29.
- Tobias, Hermann B., Philadelphia, Pa. Combination split-rim tool and long jack. No. 1,406,302; Feb. 14.
- Tobias, John M., Pittsburgh, Pa. Radiant element for gas stoves. No. 1,404,912; Jan. 31.
- Tobias, John M., Pittsburgh, Pa. Lifting jack for vehicles. No. 1,406,108; Feb. 7.
- Tobias, William L., assignor to J. W. McNab, Toronto, Ontario, Canada. Steering wheel. No. 1,422,323; July 11.
- Tobin, Anna G., administratrix. (See Gibbs, Charles.)
- Tobin, Benjamin F., jr., assignor to Continental Motors Corporation, Detroit, Mich. Shipping crate. No. 1,438,197; Dec. 12.
- Tobin, Kenneth J., assignor of one-third to E. P. Renstrom and one-third to W. G. Salkeld, Chicago, Ill. Clamp. No. 1,409,798; Mar. 14.
- Tobin, Maurice, Marion, Ohio. Repair link. No. 1,412,724; Apr. 11.
- Tobin, William B. (See Battelle, G., Runkle, and Tobin.)
- Tobler, Henri, Hackensack, assignor to American Bromine Company, Maywood, N. J. Electrolytic apparatus. (Reissue.) No. 15,297; Feb. 28.
- Tobolla, Victor T. (See Eichhorn, Theodore A., assignor.)
- Toborek, Paul, and F. Zambrini, Nice, France. Bathing costume. No. 1,432,643; Oct. 17.
- Toborg, Ernst A., Biggs, Calif. Windmill. No. 1,411,137; Mar. 28.
- Tod, Frederick, Winnipeg, Manitoba, Canada. Apparatus for teaching bookkeeping. No. 1,415,278; May 9.
- Todd, Daniel M., Elgin, Ill. Gutter-cleaning attachment for street-cleaning machines. No. 1,407,180; Feb. 21.
- Todd, Frank, Minneapolis, Minn. Radiator for gas engines. No. 1,413,302; Apr. 18.
- Todd, Frederick J., Egg Harbor, N. J., assignor to J. E. Marsden, Philadelphia, Pa. Actuating and locking mechanism. No. 1,414,000; Apr. 25.
- Todd, George W. (See Severence, F. J., Todd, and De Loree.)
- Todd, Henry I., et al. (See Robinson, George, assignor.)
- Todd, Horris W., Drumright, Okla. Rod socket. No. 1,419,780; June 13.
- Todd, James, assignor to The Sterling Varnish Company, Pittsburgh, Pa. Rubber tire. No. 1,424,787; Aug. 8.
- Todd, James A., Forth Worth, Tex. Bale-tie buckle. No. 1,404,830; Jan. 24.
- Todd, John D., McKenzie, Tenn. Telephone muffler. No. 1,437,924; Dec. 5.
- Todd, John N. (See Allen, R. N., and Todd.)
- Todd Shipyards Corporation. (See Erickson, Daniel E., assignor.)
- Todd Shipyards Corporation. (See McDonald, J., and Haynes, assignors.)
- Todman, James C. (See Cooper, T. L., and Todman.)
- Todoruk, Mike, Russell, Manitoba, Canada. Automatic gate. No. 1,405,464; Feb. 7.
- Toennes, Richard, Boonville, Mo. Smoke-ring glower. No. 1,429,176; Sept. 12.
- Toepfer, Hans, New York, N. Y., assignor to The Grasselli Chemical Company, Cleveland, Ohio. Dyeing. No. 1,417,869; May 30.
- Tofting, Neils T., Bradgate, Iowa. Jar closure. No. 1,415,908; May 16.
- Tohms, Henry B., Chicago, Ill. Vacuum cylinder for pulp and paper mills. No. 1,439,493; Dec. 19.
- Tokheim, John J., Cedar Rapids, Iowa. Power-transmitting mechanism. No. 1,426,843; Aug. 22.
- Toledo Computing Scale Company. (See Hapgood, Clarence H., assignor.)
- Toledo Metal Furniture Company, The. (See Uhl, Clement R., assignor.)
- Toledo Milling Machine Company, The. (See Waite, Lorenzo E., assignor.)
- Toledo Scale Company. (See Crane, Samuel G., assignor.)
- Toledo Scale Company. (See Hapgood, Clarence H., assignor.)
- Toledo Scale Company. (See Hem, Halvor O., assignor.)
- Toledo Scale Company. (See Hurt, Samuel N., assignor.)
- Toledo Scale Company. (See Myers, Hubert A., assignor.)
- Toledo Scale Company. (See Thomas, Edward G., assignor.)
- Toledo Scale Company. (See Ulrich, Edward F., assignor.)
- Toledo Scale Company. (See Wetzel, Lewis C., assignor.)
- Toledo Standard Commutator Company, The. (See Janke, Henry P., assignor.)
- Toledo Standard Commutator Company, The. (See Van Dusen, Charles A., assignor.)
- Toles, Justin K., San Francisco, Calif. Apparatus for fiberizing and felting cereal straw. No. 1,420,162; June 20.
- Toles, Samuel, assignor to Crown Gas Radiator Company, Pasadena, Calif. Gas radiator. No. 1,438,412; Dec. 12.
- Tolg, Clarence C., Minneapolis, Minn. Tag. No. 1,429,465; Sept. 19.
- Tolhurst, Herbert F., Cleveland, Ohio. Gas meter. No. 1,432,809; Oct. 24.
- Tolhurst Machine Works. (See Bryson, Tandy A., assignor.)
- Tolksdorf, Adam, and M. C. Ruseh, Manitowoc, Wis. Traction wheel. No. 1,431,342; Oct. 10.
- Toll, Herman H., and F. C. Duff, Clarinda, Iowa. Driving mechanism for power washing machines. No. 1,403,558; Jan. 10.
- Tolla, Theodore, and E. W. Boots, Ellwood City, Pa. Automatic cut-off for gas lines. No. 1,410,852; Mar. 28.
- Tollackson, Theodore J., Westby, Wis. Lock nut. No. 1,433,433; Oct. 24.
- Tollagren, Olaf, Chicago, Ill. Percolator. No. 1,418,850; June 6.
- Tollenaar, John D., Kirksville, Mo. Changeable sign. No. 1,410,853; Mar. 28.
- Tolman, Charles P., New Rochelle, assignor to National Lead Company, New York, N. Y. Shipping receptacle. No. 1,420,463; June 20.
- Tolookjian, Richard, Paterson, N. J. Rotary washer. No. 1,414,605; May 2.

- Tolson, Robert L., assignor, by mesne assignments, to J. W. Farley, trustee, Memphis, Tenn. Tractor. (Reissue.) No. 15,308; Mar. 14.
- Tolson, Robert L., assignor, by mesne assignments, to J. W. Farley, trustee, Memphis, Tenn. Differential gearing. No. 1,437,692; Dec. 5.
- Tomasek, Frank, Chicago, Ill. Automobile bumper. No. 1,416,426; May 16.
- Tomaskoff, William. (See Schaaf, J., and Tomaskoff.)
- Tomassette, Anthony, Philadelphia, Pa. Safety motor vehicle. No. 1,438,878; Dec. 12.
- Tombaugh, C. R., et al., executors. (See Jones, Henry C.)
- Tomblin, Oscar I., Chicago, Ill. Speedometer gear and swivel-joint protector. No. 1,409,261; Mar. 14.
- Tomkay, Béla, Gary, Ind. Aeroplane toy. No. 1,412,906; Apr. 18.
- Tomkay, Béla, Gary, Ind. Manually-propelled aeroplane. No. 1,412,907; Apr. 18.
- Tomkinson, Charles C., Plainfield, N. J. Clothes wringer. No. 1,411,983; Apr. 4.
- Tomkinson, Charles C., Plainfield, N. J., assignor to J. E. Ogden, Mountaineville, N. Y. Shutter slat. No. 1,406,303; Feb. 14.
- Tomkinson, Charles C., Plainfield, N. J., assignor to J. E. Ogden, Mountaineville, N. Y. Expansion shield with interlocking cap. No. 1,412,581; Apr. 11.
- Tomkinson, Charles C., Plainfield, N. J., assignor to J. E. Ogden, Mountaineville, Cornwall, N. Y. Concrete insert. No. 1,422,636; July 11.
- Tomkinson, Charles C., Plainfield, N. J., assignor to J. E. Ogden, Mountaineville, N. Y. Expansion shield with interlocking cap. No. 1,432,510; Oct. 17.
- Tomlin, Charles W., Chicago, Ill. Lubricating device. No. 1,412,223; Apr. 11.
- Tomlinson, Charles H., assignor to The Tomlinson Coupler Company, Mansfield, Ohio. Car, air, and electric coupling. No. 1,402,120; Jan. 3.
- Tomlinson, Charles H., assignor, by mesne assignments, to The Tomlinson Coupler Company, Mansfield, Ohio. Electric multiple connection plug. No. 1,422,241; July 11.
- Tomlinson, Charles H., assignor, by mesne assignments, to The Tomlinson Coupler Company, Mansfield, Ohio. Electric coupling. No. 1,422,905; July 18.
- Tomlinson Coupler Company, The. (See Tomlinson, Charles H., assignor.)
- Tomlinson, Edward J., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Phonograph. No. 1,413,074; Apr. 18.
- Tomlinson, Edward J., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Governor for electrical circuits. No. 1,415,495; May 9.
- Tomlinson, Edward J., assignor to Splitdorf Electrical Company, Newark, N. J. Governor for electric circuits. No. 1,415,496; May 9.
- Tomlinson, Edward J., assignor to Splitdorf Electrical Company, Newark, N. J. Automatic cut-out for electric generators. No. 1,415,497; May 9.
- Tomlinson, Edward J., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Phonograph. No. 1,432,927; Oct. 24.
- Tomlinson, John D., Rochdale, England. Machine for the production of suede cotton cloth. No. 1,411,071; Mar. 28.
- Tomlinson, Thomas. (See Bingham, F. E., and Tomlinson.)
- Tommasi, Carlo, Basel, assignor to Elektrizitätswerk Lanza, Gampel, Canton of Valais, Switzerland. Burner for metaaldehyde. No. 1,431,549; Oct. 10.
- Tommasi, Noble C., and H. Dannel, Basel, assignors to Elektrizitätswerk Lanza, Gampel, Switzerland. Solid fuel and making the same. No. 1,407,101; Feb. 21.
- Tommerson, Robert E., St. Louis, Mo. Preparation for treating leather. No. 1,407,449; Feb. 21.
- Tompkins, Edward R., Milwaukee, Wis. Window cooling box. No. 1,407,447; Feb. 21.
- Tompkins, George T., Greensburg, Pa. Vehicle signal. No. 1,435,093; Nov. 7.
- Tomsek, Frank J., Omaha, Nebr. Ventilator. No. 1,406,783; Feb. 14.
- Tomsich, Jakob, Brilliant, N. Mex. Picture frame. No. 1,435,762; Nov. 14.
- Tondult, Joseph Z. (See Roby, J. A., and Tondult.)
- Tone, Frank J., assignor to The Carborundum Company, Niagara Falls, N. Y. Abrasive-coated sheets and making the same. No. 1,414,447; May 2.
- Tone, Frank J., assignor to The Carborundum Company, Niagara Falls, N. Y. Recuperator. No. 1,433,248; Oct. 24.
- Toney, George W., assignor to Waltham Watch Company, Waltham, Mass. Counter-resetting mechanism. No. 1,431,343; Oct. 10.
- Tonfilm-Gesellschaft m. b. H. (See Hitzegrad, Carl, assignor.)
- Tonkin, Arthur S., Lyndhurst Road, Hastings, assignor of one-half to I. B. Logan, Napier, New Zealand. Paper fastener. No. 1,422,148; July 11.
- Tonkin, William R., Bisbee, Ariz. Direction signal. No. 1,418,036; May 30.
- Toohy, James F., Detroit, Mich. Ticket holder. No. 1,416,909; May 23.
- Tooker, Harry L., Taunton, Mass. Soft-collar clasp. No. 1,429,804; Sept. 19.
- Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Testing and adjusting apparatus for cord circuits. No. 1,406,246; Feb. 14.
- Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Telephone apparatus. No. 1,407,046; Feb. 21.
- Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Repeater circuit. No. 1,407,604; Feb. 21.
- Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Ringing regulator. No. 1,408,784; Mar. 7.
- Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Testing and adjusting apparatus for cord circuits. No. 1,428,667; Sept. 12.
- Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Telephone-exchange system. No. 1,431,195; Oct. 10.
- Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Signaling apparatus and circuits. No. 1,431,995; Oct. 17.
- Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Automatic ringing circuits. No. 1,435,348; Nov. 14.
- Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Signaling apparatus and circuits. No. 1,437,457; Dec. 5.
- Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Signaling apparatus and circuits. No. 1,439,772; Dec. 26.
- Toomey, John F., New York, N. Y., and O. H. Loynes, Wood Ridge, N. J., assignors to American Telephone and Telegraph Company. Telephone-call circuits. No. 1,427,923; Sept. 5.
- Toothaker, Fred E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Device for use in turning heel portions of molded-counter turned shoes. No. 1,405,531; Feb. 7.
- Toothaker, Fred E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe and shoe-shank stiffener. No. 1,426,427; Aug. 22.
- Topham, Laurence E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Driving and stopping mechanism. No. 1,404,072; Jan. 17.
- Topham, Laurence E., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Wax-thread sewing machine. No. 1,419,994; June 20.
- Topham, Laurence E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Insole. No. 1,421,619; July 4.
- Topham, Laurence E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Mechanism for automatically positioning lasts. No. 1,436,065; Nov. 21.
- Toplitz, Samson L., New York, N. Y. Protective cover for mops. No. 1,408,488; Mar. 7.
- Toplitz, Samson L., New York, N. Y. Mop holder. No. 1,411,878; Apr. 4.
- Topp, James, assignor to Eberson-Topp, Inc., Chicago, Ill. Wind chest and valve action for organs. No. 1,419,703; June 13.
- Topp, Maurice J., Manlius, and W. G. Miller, Syracuse, N. Y. Willow stripper. No. 1,434,461; Nov. 7.
- Topper, William S., and J. A. Adams, Bucyrus, Ohio. Self locking switch. No. 1,440,252; Dec. 26.
- Topping, Henry, Ashley, Ill. Crossing bridge for railway rails. No. 1,404,810; Jan. 31.
- Topping, John A., Chicago, Ill. Lamp casing. No. 1,403,924; Jan. 17.
- Topping, John A., Chicago, Ill. Means for securing shingles to roofs. No. 1,430,338; Sept. 26.
- Torbensen Axle Company, The. (See Carlson, Gustav W., assignor.)
- Torbensen, Viggo V., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Axle and wheel construction for power-driven vehicles. No. 1,417,426; May 23.
- Torbensen, Viggo V., assignor to The Standard Parts Company, Cleveland, Ohio. Axle. No. 1,427,502; Aug. 29.
- Torchia, Julius C., Hazleton, Pa. Shoemaker's last. No. 1,413,636; Apr. 25.
- Torgerson, Walter N., Galloway, Wis. Staple puller. No. 1,410,426; Mar. 21.
- Torgeson, Julius B., Minneapolis, Minn. Attachment for film-pack cameras. No. 1,431,851; Oct. 10.
- Torley, Charles H., Brussels, Belgium. Filter. No. 1,408,785; Mar. 7.
- Tornado Auto Pump Company. (See Eslinger, Melvin B., assignor.)
- Tornansky, Isadore, Ellington, Conn. Combination toilet article. No. 1,405,077; Jan. 31.
- Tornberg, Isidor. (See Roosen, O., and Tornberg.)
- Toro Manufacturing Company. (See Morehouse, Gardner E., assignor.)
- Toro Motor Company. (See McCartney, Elmer B., assignor.)
- Toronto Power Company Limited, The. (See Stuart, A. T., and Middleton, assignors.)

Alphabetical list of patentees—Continued.

- Torrance, John R., Bitton, England. Disk and like grinding mill. No. 1,405,878; Feb. 7.
- Torregano, Ernest J. (See Winterburn, James E., assignor.)
- Torrence, John M., Decatur, Ga. Timing device. No. 1,413,202; Apr. 18.
- Torrent, Antoine, Paris, France. Hair-curling iron. No. 1,411,817; Apr. 4.
- Torresen, Carel T., and C. G. Roth, Cleveland, Ohio. Tractor belt. No. 1,437,693; Dec. 5.
- Torres-Garcia, Joachim, New York, N. Y. Traveling toy. No. 1,427,657; Aug. 29.
- Torrey, Charles L., assignor of 70 per cent to C. A. Sawyer and 25 per cent to W. T. Alexander, San Jose, Calif. Hydrocarbon-gas burner. No. 1,403,656; Jan. 17.
- Torricelli, Decio, Springfield, Mass. Concrete-block machine. No. 1,403,925; Jan. 17.
- Torrington Company, The. (See Graham, James H., assignor.)
- Torsion Balance Company, The. (See Becker, Christopher A., assignor.)
- Toth, John. (See Sandor, J., and Toth.)
- Toth, Stephen, Olyphant, Pa. Attachment for rocking chairs. No. 1,435,432; Nov. 14.
- Tóth, Vincent, Cleveland, Ohio. Operating stand for grinders. No. 1,409,042; Mar. 7.
- Tothill, William S., Chicago, Ill. Tector device. No. 1,418,037; May 30.
- Tottle, William A., & Co. (See Young, William E., assignor.)
- Touchais, Pierre, and C. Wahl, Paris, France. Brake for cycles. No. 1,430,771; Oct. 3.
- Toupet, Beil & Conley, Inc. (See Toupet, Julius H., assignor.)
- Toupet, Julius H., Pittsburgh, Pa. Tile for floor structures. (Reissue.) No. 15,369; May 30.
- Toupet, Julius H., assignor to Toupet, Beil & Conley, Inc., Pittsburgh, Pa. Combined floor structure. No. 1,404,710; Jan. 24.
- Tournier, Frederick G. J., London, assignor of one-third to A. J. E. Napper, Balham, London, England. Tennis racket or the like. No. 1,409,621; Mar. 14.
- Tousey, Sinclair, New York, N. Y. Golf club. No. 1,418,038; May 30.
- Tousey, Sinclair, New York, N. Y. Golf club. No. 1,418,039; May 30.
- Tousey, Sinclair, New York, N. Y. X-ray cathode. No. 1,431,063; Oct. 3.
- Tousley, Elton A. (See Rehn, E. H., and Tousley.)
- Tow Motor Company. (See McCartney, Elmer B., assignor.)
- Tower, Max L., assignor to Niagara Sprayer Co., Middleport, N. Y. Insecticide. No. 1,416,526; May 16.
- Towers, Lewis E., assignor of one-third to J. A. McKinley and one-third to L. Terwillinger, Detroit, Mich. Collapsible boat. No. 1,434,570; Nov. 7.
- Towl, Charles. (See Smith, D. J., and Towle.)
- Towle, Charles R., assignor of one-half to H. E. Lewis, Haverhill, Mass. Shoe-shank-forming tool. No. 1,408,913; Mar. 7.
- Towle, Elton L., Paterson, N. J. Sand-molding apparatus. No. 1,407,902; Feb. 28.
- Towne, Earle A., assignor to Union Steel Products Co., Ltd., Albion, Mich. Conveyor. No. 1,428,721; Sept. 12.
- Towne, Robert S., New York, N. Y., and F. B. Flinn, Orange, N. J., assignors, by mesne assignments, to Pneumatic Process Flotation Company, New York, N. Y. Apparatus for separating ore materials from each other. No. 1,410,781; Mar. 28.
- Towne, Willis H., O. M. Thjomoe, and W. B. Mercer, Chicago, Ill. Coal loader. No. 1,408,659; Mar. 7.
- Towns, Mattie J., Tyler, Tex. Storage battery. No. 1,433,669; Oct. 31.
- Townsend, Clinton P., Washington, D. C., assignor to Hooker Electrochemical Company, New York, N. Y. Making hydrochloric acid. No. 1,414,762; May 2.
- Townsend Company. (See de Lapotterie, Otto H., assignor.)
- Townsend, Frederick B., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand brake. No. 1,403,210; Jan. 10.
- Townsend, George G., Frostburg, Md. Leveling instrument. No. 1,437,327; Nov. 28.
- Townsend, Hal B., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Collapsible core. No. 1,402,979; Jan. 10.
- Townsend, Harry E., Brooklyn, N. Y. Closure. No. 1,404,913; Jan. 31.
- Townsend, Harry E., assignor to The Anchor Cap & Closure Corporation, Brooklyn, N. Y. Automatic sealing machine. No. 1,402,809; Jan. 10.
- Townsend, Harry E., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Duplex sealing machine. No. 1,406,703; Feb. 14.
- Townsend, Harry E., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Capping machine. No. 1,407,448; Feb. 21.
- Townsend, Henry A. (See Hall, John A., assignor.)
- Townsend, John R., South Bend, Ind. Headlight suspension. No. 1,435,763; Nov. 14.
- Townsend, John S., assignor to Whiting Corporation, Harvey, Ill. Combined clutch and brake. No. 1,418,747; June 6.
- Townsend, John S., assignor to Whiting Corporation, Harvey, Ill. Power cable-reeling mechanism for self-propelled machines. No. 1,423,889; July 25.
- Townsend, John S., assignor to Whiting Corporation, Harvey, Ill. Housing for vertical screw jacks. No. 1,424,952; Aug. 8.
- Townsend, John S., assignor to Whiting Corporation, Harvey, Ill. Trolley. No. 1,429,118; Sept. 12.
- Townsend, John S., assignor to Whiting Corporation, Harvey, Ill. Hand-power press. No. 1,431,996; Oct. 17.
- Townsend, John S., assignor to Whiting Corporation, Harvey, Ill. Sand-throwing head for molding machines. No. 1,436,120; Nov. 21.
- Townsend, John S. E., Oxford, England. Variometer. No. 1,421,041; June 27.
- Townsend, Joseph M., assignor of one-half to W. E. Freeman, Worcester, Mass. Envelope manufacture. No. 1,426,523; Aug. 22.
- Townsend, Paul V., Anderson, Ind. Tool holder for lathes. No. 1,418,992; June 6.
- Townsend, Percival J., Redwood City, Calif. Electric fireless cooker. No. 1,416,527; May 16.
- Townsend, Ralph V. (See Zabel, A. F., and Townsend.)
- Townsend, Samuel P., Orange, N. J. Mower. No. 1,413,637; Apr. 25.
- Townsend, Samuel P., Orange, N. J. Multiple-unit mower. No. 1,437,874; Dec. 5.
- Townsend, William A., Hugo, Okla. Sign. No. 1,439,040; Dec. 19.
- Towsley, Alfred W., Evanston, and S. Otis, Barrington, Ill. Locomotive terminal. No. 1,413,365; Apr. 18.
- Toy Company of America. (See Wiggin, Charles L., assignor.)
- Toy, Samuel, Boston, Mass. Time-controlled reminder apparatus. No. 1,416,910; May 23.
- Tozier, George H., assignor to Eastman Kodak Company, Rochester, N. Y. Apparatus for nitric-acid purification. No. 1,429,177; Sept. 12.
- Trabold, Frank W., assignor to J. H. Williams & Co., Brooklyn, N. Y. Adjustable spanner wrench. No. 1,402,686; Jan. 3.
- Trace, Russell A. (See Sheppard, O., jr., and Trace.)
- Trace, Russell A., assignor to Buckeye Iron and Brass Works, Dayton, Ohio. Cooker for oil-bearing material. No. 1,425,811; Aug. 15.
- Trace, Russell A., assignor to Buckeye Iron & Brass Works, Dayton, Ohio. Valve for cake-forming presses. No. 1,428,998; Sept. 12.
- Trachte, Arthur F. (See Trachte, George A., and A. F.)
- Trachte, George A. and A. F., Madison, Wis. Trough. No. 1,433,048; Oct. 24.
- Trachy, Edward R., and J. Nelson, Minneapolis, Minn.; said Nelson assignor to said Trachy. Sanding attachment for automobiles. No. 1,438,622; Dec. 12.
- Tracy, Halder E., Middletown, Ohio. Gas reclaiming. No. 1,427,337; Aug. 29.
- Tracy, James, et al. (See Tracy, Laurence J., assignor.)
- Tracy, James J., and L. H. Morse; said Morse assignor to said Tracy, Cleveland, Ohio. Carburetor. No. 1,433,689; Oct. 31.
- Tracy, James J., and L. H. Morse, Cleveland, Ohio; said Morse assignor to said Tracy. Carburetor. No. 1,435,947; Nov. 21.
- Tracy, Laurence J., deceased; J. O'Leary, administratrix, assignor of one-fourth to W. L. Deering, St. Louis, Mo., one-fourth to C. J. Gevecker and H. Gevecker, one-tenth to M. Connell, one-tenth to M. Decker, one-tenth to R. McGrane, one-tenth to J. O'Leary, and one-tenth to J. Tracy. Electric heater. No. 1,417,427; May 23.
- Tracy, Pratt E., assignor, by mesne assignments, to Air-Way Electric Appliance Corporation, Toledo, Ohio. Bag-holding means for nozzles. No. 1,408,489; Mar. 7.
- Traffic Motor Truck Corporation. (See Dorsey, Sherman H., assignor.)
- Trahan, Paul O., Gueydan, La. Safety attachment for tractors. No. 1,409,043; Mar. 7.
- Trailer Transportation Company. (See Lloyd, Herbert D., assignor.)
- Trailmobile Company, The. (See Morrison, James, assignor.)
- Trailot, Arnold, Lexington, Ky. Soldering composition. No. 1,417,428; May 23.
- Trane, Raymond, assignor of one-third to C. Boon and one-third to E. E. Ashley, Omaha, Nebr. Attachment for rules. No. 1,427,039; Aug. 22.
- Trane, Reuben N., La Crosse, Wis. Compressor or vacuum pump. No. 1,418,040; May 30.
- Trane, Reuben N., La Crosse, Wis. Centrifugal pump. No. 1,418,041; May 30.
- Transit Vending Machine Company. (See Mann, James H., Jr., assignor.)
- Transmeier, Ernest A., Lawrence, Kans. Combined barrow and scraper. No. 1,425,424; Aug. 8.
- Trantham, Lawson. (See Wood, A. D., Trantham, and Self.)
- Tranzen, Eric T., et al. (See Evans, Fred, assignor.)
- Traphagen, Harry R. (See Waterman, L. E., Traphagen, and Waterman.)
- Traphagen, Harry R., assignor to Emerson-Brantingham Company, Rockford, Ill. Reversible harrow. No. 1,410,144; Mar. 21.
- Traphagen, Harry R., assignor to Emerson-Brantingham Company, Rockford, Ill. Colter. No. 1,421,111; June 27.

Alphabetical list of patentees—Continued.

- Trapp, Alfred, Milwaukee, Wis. Automatic stabilizing device. No. 1,416,911; May 23.
- Trask, Frank G., Ross, N. Dak. Compressed air and vacuum railway. No. 1,411,597; Apr. 4.
- Trask, Ralph W. (See Holmgren, G., Scharnhorst, Trask, and Russell.)
- Trattner, Charles S. (See Grand, G., and Trattner.)
- Trau, Isidor K., Louisville, Ky. Cap. No. 1,414,797; May 2.
- Traub, Charles J., Cincinnati, Ohio. Grate. No. 1,410,628; Mar. 28.
- Traub, Edward. (See Traub, George, W. and E.)
- Traub, George W. and E., Waco, Tex. Roadside sign. No. 1,429,805; Sept. 19.
- Traub, William. (See Traub, George, W. and E.)
- Trauger, Charles A., Spencer, Iowa. Dumping box. No. 1,404,494; Jan. 24.
- Traut & Hine Mfg. Company, The. (See Humphrey, Ernest N., assignor.)
- Trautman, Ray, Minneapolis, Minn. Artificial limb. No. 1,412,149; Apr. 11.
- Trautman, Walter G., assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Sheet-feeding mechanism. No. 1,413,245; Apr. 18.
- Trautwein, Jacob O., Chicago, Ill. Chart holder. No. 1,416,141; May 16.
- Travelers Insurance Company, The. (See Howard, James L., assignor.)
- Travenski, Edward, Sobieski, Wis. Shoe-holder attachment for anvils. No. 1,402,687; Jan. 3.
- Traver, Ernest A., Thornton, Calif. Artificial minnow. No. 1,437,694; Dec. 5.
- Traver, Harry G., Beaver Falls, Pa. Collapsible passenger-carrying car for aeroplane swings. No. 1,436,371; Nov. 21.
- Traver, Henry C. (See Gosney, Robert E., assignor.)
- Travers, Charles J., et al. (See Strite, George T., assignor.)
- Travers, Charles J., assignor to Gilson Mfg. Co., Port Washington, Wis. Back support. No. 1,437,875; Dec. 5.
- Travers, Henry A. (See Randall, K. C., and Travers.)
- Travers, John T., Columbus, Ohio. Treating polluted liquid. No. 1,440,253; Dec. 26.
- Travers, John T., Columbus, Ohio. Water purification. No. 1,440,254; Dec. 26.
- Traves, Webster F. (See Wagstaff, Andrew L., assignor.)
- Travis, Don C., assignor to Simmons Company, Kenosha, Wis. Bedspring-border brace. No. 1,432,499; Oct. 17.
- Travis, Herbert J., assignor to Corning Glass Works, Corning, N. Y. Skimming means for tank furnaces. No. 1,410,782; Mar. 28.
- Travis, Maurice C., assignor to The Isko Company, Chicago, Ill. Flexible coupling. No. 1,402,688; Jan. 3.
- Traviss, Norman W., assignor to Wood Bros. Thresher Co., Des Moines, Iowa. Reversing mechanism for straw stackers. No. 1,408,490; Mar. 7.
- Trawinski, Stephen, Chicago, Ill. Shoe-lacing means. No. 1,429,657; Sept. 19.
- Traylor, James F. (See Jenkins, B. O., and Traylor.)
- Trcka, Frank J. (See Hodgkinson, Otréd, assignor.)
- Treadwell, M. H., Company. (See Astrom, Carl P., assignor.)
- Trenor, Edward D., Pittsfield, Mass., assignor to General Electric Company. Winding machine. No. 1,413,366; Apr. 18.
- Trenor, Edward D., Pittsfield, Mass., assignor to General Electric Company. Winding machine. No. 1,413,367; Apr. 18.
- Treat, Arthur R., Gypsum, Kans. Wood-splitting machine. No. 1,425,298; Aug. 8.
- Treat, Harry E., Rochester, N. Y. Shoemaker's last. No. 1,429,702; Sept. 19.
- Trebert Airplane Motor Company. (See Trebert, Henry L. F., assignor.)
- Trebert, Henry L. F., West Bloomfield, assignor to Trebert Airplane Motor Company, Inc., Penn Yan, N. Y. Piston head. No. 1,412,427; Apr. 11.
- Treese, Edmund C., Huntington, W. Va., assignor to Sullivan Machinery Company. Truck. No. 1,439,020; Dec. 19.
- Tréfois, Léon, Brussels, Belgium. Rotary furnace grate. No. 1,427,338; Aug. 29.
- Treganza, Howard J., assignor to Ansonia Clock Co., Brooklyn, N. Y. Automatic synchronizing mechanism for chime clocks. No. 1,409,622; Mar. 14.
- Tregoe, Benjamin B., East Orange, N. J., and J. D. Carroll, New York, assignors of one-third to J. Henderson, New York, N. Y. Electric time switch for auto lights. No. 1,418,748; June 6.
- Treiber, Theodore R., and W. H. McWhorter, Chicago, Ill. Hanging strap. No. 1,431,852; Oct. 10.
- Treichel, Thomas J., San Francisco, Calif. Adjustable sun and light diffuser. No. 1,417,218; May 23.
- Treichs, William H., assignor of one-third to S. E. Sunski and one-third to J. Gerrick, Seattle, Wash. Wrench. No. 1,431,064; Oct. 3.
- Trekell, Harry M., Wellington, Kans. Mail-box bracket and signal. No. 1,430,476; Sept. 26.
- Tremblay, Hormidas, Southbridge, Mass. Making spectacle frames and similar articles. No. 1,425,919; Aug. 15.
- Tremont Products Company. (See Baker, Malcolm H., assignor.)
- Trenary, William F., Atlanta, Ga. Centrifugal pump. No. 1,423,369; July 18.
- Trenor, Albert D. (See Hammond, J. H., jr., and Trenor.)
- Trenor, Albert D., New York, N. Y., assignor to J. H. Hammond, Jr., Gloucester, Mass. Helm-limiting device. No. 1,405,078; Jan. 31.
- Trenor, Albert D., New York, N. Y., assignor to J. H. Hammond, Jr., Gloucester, Mass. System for predirecting torpedoes. No. 1,408,147; Feb. 28.
- Trenor, Albert D., New York, N. Y., assignor to J. H. Hammond, Jr., Gloucester, Mass. Predirecting system for torpedoes. No. 1,418,851; June 6.
- Trenor, Albert D., New York, N. Y., assignor to J. H. Hammond, Jr., Gloucester, Mass. Steering mechanism. No. 1,428,568; Sept. 12.
- Trent Process Corporation. (See Trent, Walter E., assignor.)
- Trent, Walter E., assignor to Trent Process Corporation, Washington, D. C. Grinding machine. No. 1,406,109; Feb. 7.
- Trent, Walter E., Washington, D. C., assignor to Trent Process Corporation, Wilmington, Del. Cleaning coal. No. 1,420,163; June 20.
- Trent, Walter E., assignor to Trent Process Corporation, Washington, D. C. Purifying materials. No. 1,420,164; June 20.
- Trent, Walter E., assignor to Trent Process Corporation, Washington, D. C. Purifying materials. No. 1,420,165; June 20.
- Trent, Walter E., assignor to Trent Process Corporation, Washington, D. C. Collecting and purifying minerals. No. 1,421,862; July 4.
- Trepier, Paul A., Paris, France. Metal wheel for vehicles. No. 1,405,358; Jan. 31.
- Trepier, Paul A., Paris, France. Locking washer. No. 1,425,725; Aug. 15.
- Trescott Company, The. (See Trescott, Willis A., assignor.)
- Trescott, Willis A., assignor to The Trescott Company, Inc., Fairport, N. Y. Sorting or grading machine. No. 1,438,673; Dec. 12.
- Tresnak, William J., Lake Worth, Fla. Rowlock. No. 1,436,613; Nov. 21.
- Tresslar, Guy D., Flint, assignor to General Motors Corporation, Detroit, Mich. Friction-clutch member. No. 1,414,490; May 2.
- Trestain, George H. (See Jones, Austin F., assignor.)
- Trethwey, William G., Cuckfield, England. Tractor wheel. No. 1,415,279; May 9.
- Tretsvén, Ole J., Frederic, Wis. Combination table and ironing board. No. 1,402,689; Jan. 3.
- Trevor, Sydney R., Sulphur Beach, Auckland, New Zealand. Manufacture of paints. No. 1,436,736; Nov. 28.
- Trevoux, Laurent E. M., assignor to la Société Anonyme de Produits Chimiques Etablissements Malétra, Petit-Quevilly, France. Production of acetaldehyde from acetylene. No. 1,428,668; Sept. 12.
- Trevoux, Laurent E. M., assignor to la Société Anonyme de Produits Chimiques (Etablissements Malétra), Petit-Quevilly, France. Production of acetaldehyde from acetylene. No. 1,436,550; Nov. 21.
- Trew, George B., Shreveport, La. Pump. No. 1,415,417; May 9.
- Trew, Thomas J., assignor to King Automatic Troller Co., Seattle, Wash. Automatic reeling device. No. 1,417,429; May 23.
- Treyri Brassert & Company. (See Weinl, Karl, assignor.)
- Triay, Edward J., jr., Jacksonville, Fla. Lace-locking means for articles of personal wear. No. 1,434,723; Nov. 7.
- Tribes, Gaston E. F., Paris, France, assignor to Societe Anonyme "Procédes Torrida," Brussels, Belgium. Drying, baking, roasting, and cooling organic substances. No. 1,403,211; Jan. 10.
- Trick, Charles F. (See Zimmerman, L. C., and Trick.)
- Trickett, Walter S., assignor to Hussong Dyeing Machine Company, Groveville, N. J. Yarn rack. No. 1,422,012; July 4.
- Triggs, William J., Philadelphia, Pa. Quick-release device for clamp bolts. No. 1,435,433; Nov. 14.
- Trimbe, Edward J. (See Allen, C. H., and Trimbe.) (Reissue.)
- Trimble, E. M., Manufacturing Company. (See Baxter, William C., assignor.)
- Trimborn, Peter W., and F. J. Blum, assignors to Crude Oil Gas Systems Company, Milwaukee, Wis. Oil burner. No. 1,433,434; Oct. 24.
- Trimmer, Ray F. (See Putnam, C. V., and Trimmer.)
- Trimont Manufacturing Company. (See Demers, Joseph J., assignor.)
- Trinca, Frederick. (See Velo, Anthony C., assignor.)
- Trinity Folding Booth Company. (See De la Fontaine, Charles J., assignor.)
- Tripp, Clarence A., Mojave, Calif. Can opener. No. 1,435,349; Nov. 14.
- Tripp, William H. (See Geyer, R. M., and Tripp.)
- Trippe, Graham, Detroit, Mich. Headlight. No. 1,413,811; Apr. 25.
- Trippensee, Christ W., Jefferson City, Mo. Piston ring. No. 1,419,781; June 13.
- Tripplehorn, George H., Highland Park, Mich. Shock absorber. No. 1,428,306; Sept. 5.

Alphabetical list of patentees—Continued.

- Trist, Arthur R., London, England. Fabric particularly applicable to the manufacture of ring packing for glands. No. 1,414,001; Apr. 25.
- Tritle, John F., Schenectady, N. Y., assignor to General Electric Company. Motor control. No. 1,412,636; Apr. 11.
- Tritle, John E., Schenectady, N. Y., assignor to General Electric Company. Circuit interrupter. (Reissue.) No. 15,441; Aug. 29.
- Tritle, John F., Schenectady, N. Y., assignor to General Electric Company. System and apparatus for motor control. No. 1,434,758; Nov. 7.
- Tritt, Samuel J., Carlisle, Pa. Elevator. No. 1,426,524; Aug. 22.
- Triumph Electric Company, The. (See Lebovici, Justin, assignor.)
- Triumph Stove and Heater Company. (See Gaertner, R., and Klein, assignors.)
- Triumph Trap Co. (See Greene, Holdridge G., assignor.)
- Triumph-Werke Nürnberg A.-G. (See Kupfer, Carl, assignor.)
- Trivelli, Adriaan P. H., assignor to Eastman Kodak Company, Rochester, N. Y. Motion-picture film. No. 1,411,677; Apr. 4.
- Trod, Assid E., et al. (See Snyder, Frank B., assignor.)
- Trod, Nassif E., et al. (See Snyder, Frank B., assignor.)
- Troeger, Herman W., Detroit, Mich. Stop for phonographs. No. 1,426,125; Aug. 15.
- Troeger, John F. R., assignor, by mesne assignments, to American Lux Products Corporation, New York, N. Y. Screen for motion pictures. No. 1,422,149; July 11.
- Troiano, Antonio, Washington, D. C. Resilient heel. No. 1,409,070; Mar. 7.
- Trojan Powder Co. (See Snelling, Walter O., assignor.)
- Troke, Thomas P., Indianapolis, Ind. Convertible vehicle body. No. 1,415,209; May 9.
- Troland, Leonard T., Malden, J. A. Ball, and J. M. Andrews, Wollaston, assignors to Kalmus, Comstock & Wescott, Inc., Boston, Mass. Liquid treatment of cinematographic films. No. 1,435,764; Nov. 14.
- Trollhättans Elektrothermiska Aktiebolag. (See Johansson, Edwin A., assignor.)
- Tromp, Wilhelm J., Bilthoven, Netherlands. Plow. No. 1,436,614; Nov. 21.
- Trood, Samuel, Pittsburgh, Pa. Heating apparatus. No. 1,413,203; Apr. 18.
- Trook, Everett W. (See Allison, James M., assignor.)
- Troop, George W. (See Carpmill, J. F., and Troop.)
- Troop Manufacturing Company. (See Beler, Adolf, assignor.)
- Trosch, Alfred, assignor to A. H. Ingle, Rochester, N. Y. Tool holder. No. 1,432,500; Oct. 17.
- Trosch, Alfred, assignor to A. H. Ingle, Rochester, N. Y. Speed-controlling mechanism for planers. No. 1,439,455; Dec. 19.
- Trosclair, Leo E., New Orleans, La. Gas-regulating valve. No. 1,407,963; Feb. 28.
- Trosien, Charles G., Pontiac, Mich. Gear lock for automobiles. No. 1,414,716; May 2.
- Trost, Carl, Manning, Iowa. Attachment for corn planters. No. 1,408,547; Mar. 7.
- Trost, Edward, Jacksonville, Fla. Escapement mechanism. No. 1,416,528; May 16.
- Trost, Henry C., El Paso, Tex. Building construction. No. 1,409,623; Mar. 14.
- Trost, Henry C., El Paso, Tex. Building construction. No. 1,419,995; June 20.
- Trost, Henry C., El Paso, Tex. Automatic interlocking attachment for window sashes. No. 1,435,585; Dec. 19.
- Trost, John, Detroit, Mich. Armored tire. No. 1,434,571; Nov. 7.
- Trost, Robert, San Francisco, Calif. Method and means for constructing forms for concrete. No. 1,420,166; June 20.
- Trostel, George M., Canton, N. C. Bleaching pulp. No. 1,409,799; Mar. 14.
- Trostle, John E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Brush holder. No. 1,424,326; Aug. 1.
- Trotman, Walter K., Holyoke, Mass., assignor of one-half to C. D. Jacobs, South Orange, N. J. Apparatus and process of producing torn-edge paper sheets. No. 1,431,709; Oct. 10.
- Trott, Frank. (See Barrett, A. M., Childress, and Trott.)
- Trottnow, Carl F., Rock Island, Ill. Valve-spring lifter for internal-combustion engines. No. 1,413,812; Apr. 25.
- Troup, Harry A., Los Angeles, Calif. Controlling device. No. 1,426,686; Aug. 22.
- Troupe, Paul V., Moline, Ill. Differential transmission gearing. No. 1,405,359; Jan. 31.
- Trout, John L., Kokomo, Ind. Camping attachment for automobiles. No. 1,439,277; Dec. 19.
- Trout, Walter C., Lufkin, Tex. Expansion sprocket. No. 1,424,327; Aug. 1.
- Troutman, Arthur L. and E. B., North Bessemer, Pa. Ratchet screw driver. No. 1,431,901; Oct. 10.
- Troutman, Edward B. (See Troutman, Arthur L. and E. B.)
- Troutman, Elmer E. (See Bremner, G. D., and Troutman.)
- Troutman, Frank E., Butler, assignor to J. W. Cruikshank Engineering Company, Pittsburgh, Pa. Track-elevating mechanism. No. 1,411,315; Apr. 4.
- Troutman, George W., Wichita, Kans. Piston-ring spreader. No. 1,430,702; Oct. 3.
- TROUTNER, William D., Pittsfield, Ill. Method and means for inserting teeth in gears and pinions. No. 1,406,110; Feb. 7.
- Trowbridge, Emory E., Kansas City, Kans. Air-vent drainage system. No. 1,408,548; Mar. 7.
- Trowbridge, Kenneth M., Dallas, Ga. Variable-speed change mechanism of power-transmission devices. No. 1,407,047; Feb. 21.
- Trower, Lee, Wilkesburg, Pa. Safety device for steam shovels. No. 1,436,737; Nov. 28.
- Troy Laundry Machine Co. (See Bartholomew, W., and Simons, assignors.)
- Troy Laundry Machinery Company. (See Bartholomew, William, assignor.)
- Troy Laundry Machinery Co. (See Hoting, Hans C., assignor.)
- Troy Laundry Machinery Co. (See Krommiller, Carl G., assignor.)
- Troy Laundry Machinery Co. (See Marks, William C., assignor.)
- Troy Laundry Machinery Company. (See Rankin, Frank E., assignor.)
- Truck, Tractor and Manufacturing Company. (See Jacobs, I. M., and Cramer, assignors.)
- Truckenbrodt, John, and N. C. Jensen, Fort Dodge, Iowa. Distributor for spraying animals. No. 1,429,206; Sept. 12.
- Trucson Steel Company, The. (See White, Herbert E., assignor.)
- Trudeau, Abraham L., Two Rivers, and L. J. Lensmeyer, Manitowoc, Wis. Automobile jack. No. 1,402,690; Jan. 3.
- True, Charles H., Hammond, Ind., assignor to The Superheater Company, New York, N. Y. Double-tube return bend. No. 1,411,762; Apr. 4.
- Truemper, John C., Indianapolis, Ind. Head rod and ring holder for awnings. No. 1,439,344; Dec. 19.
- Trullinger, Daniel N., and L. A. Granger, Fresno, Calif. Apparatus for forming concrete pipes. No. 1,422,150; July 11.
- Trulock, Charles W., Los Angeles, Calif. Lamp-lock guard. No. 1,414,906; May 2.
- Truman, Percival H., Evanston, and V. E. Sisson, Chicago, Ill., assignors to W. P. Murphy, New York, N. Y. Sheet-steel end structure for railway cars. No. 1,432,928; Oct. 24.
- Trumble, Chauncey B., Hartford, Conn. Fishing-snell carrier. No. 1,416,142; May 16.
- Trumble Gas Trap Company. (See Trumble, Milton J., assignor.)
- Trumble, John T., Detroit, Mich. Clutch. No. 1,437,121; Nov. 28.
- Trumble, Milton J., Alhambra, Calif. Sound reproducer. No. 1,432,139; Oct. 17.
- Trumble, Milton J., Alhambra, Calif. Cushioning flow fitting for oil wells. No. 1,436,417; Nov. 21.
- Trumble, Milton J., Alhambra, Calif. Vaporizer. No. 1,439,206; Dec. 19.
- Trumble, Milton J., Alhambra, Calif., assignor to Trumble Gas Trap Company. Gas-trap float. No. 1,432,221; Oct. 17.
- Trumbull, Alexander H., Stratford, assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn. Knife-blade switch. No. 1,424,266; Aug. 1.
- Trumbull Electric Manufacturing Company, The. (See Getchell, Benjamin E., assignor.)
- Trumbull Electric Manufacturing Company, The. (See Regan, Joseph C., assignor.)
- Trumbull, Harlan L., Chicago, Ill., and W. L. Evans, Columbus, Ohio, assignors to N. D. Baker, Secretary of War, trustee. Making crystal violet. No. 1,402,195; Jan. 3.
- Trumbull, Henry S., Vicksburg, Mich. Cultivator fender. No. 1,433,249; Oct. 24.
- Trumbull Steel Company. (See O'Brien, Henry G., assignor.)
- Trumm, Henry, West Hoboken, N. J., assignor to Gurney Elevator Company, Inc., Honesdale, Pa. Sheave attachment. No. 1,438,674; Dec. 12.
- Trump, David T. (See Bater, M. R., Svendsen, Trump, and Mahoney.)
- Trump, Elno H., Sebring, assignor of one-half to J. M. Alderfer, Akron, Ohio. Apparatus for making pneumatic tires. No. 1,417,701; May 30.
- Trumpler, William E., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Constant-volume regulator for turbo compressors. No. 1,408,660; Mar. 7.
- Trumppour, William J., Chicago, Ill., and W. Wirth, St. Joseph, Mich.; said Wirth assignor to said Trumppour, Jack. No. 1,416,912; May 23.
- Trundle, George T., Jr., assignor to E. W. Stephan, Cleveland Heights, Ohio. Machine for making surgical-cotton points and the like. No. 1,438,623; Dec. 12.
- Trunick, Charles, Farrell, Pa. Screw driver. No. 1,418,184; May 30.
- Trushin Manufacturing Company. (See Simon, Walter B., assignor.)
- Truscov Steel Company. (See Kane, Thomas H., assignor.)

- Truscon Steel Company, The. (See White, Herbert B., assignor.)
- Trussell, Clarence D., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y. Temporary binder. (Reissue.) No. 15,322; Mar. 28.
- Trussell Manufacturing Company. (See Trussell, Clarence D., assignor.) (Reissue.)
- Trussell, Wilbert L., Minneapolis, Minn. Plow. No. 1,417,643; May 30.
- Trust, Henry. (See Trust, Josephine and H.)
- Trust, Henry, Park Ridge, N. J., and F. M. Ashley, Brooklyn, N. Y. Mixing and beating machine. No. 1,402,914; Jan. 10.
- Trust, Henry, deceased, Park Ridge, N. J., and F. M. Ashley, Brooklyn, N. Y.; J. Trust, administratrix. Coupling. No. 1,427,924; Sept. 5.
- Trust, Henry, deceased, Park Ridge, N. J., and F. M. Ashley, Brooklyn, N. Y.; said Ashley assignor of his one-half interest to J. Trust; J. Trust, administratrix. Mixing and beating machine. No. 1,430,040; Sept. 26.
- Trust, Josephine, administratrix. (See Trust, H., and Ashley.)
- Trust, Josephine and H., Park Ridge, N. J., assignor, by mesne assignments, to Meteor Mixing Machine Co., Inc. Food machine. No. 1,415,735; May 9.
- Trust, Josephine and H., Park Ridge, N. J., assignors, by mesne assignments, to Meteor Mixing Machine Co., Inc. Food machine. No. 1,418,107; May 30.
- Trust, Josephine and H., Park Ridge, N. J., assignors, by mesne assignments, to Meteor Mixing Machine Co., Inc. Food machine. No. 1,418,108; May 30.
- Trust, Josephine and H., Park Ridge, N. J., assignors, by mesne assignments, to Meteor Mixing Machine Co., Inc. Food machine. No. 1,418,749; June 6.
- Trust, Josephine and H., Park Ridge, N. J., assignors, by mesne assignments, to Meteor Mixing Machine Co., Inc. Food machine. No. 1,422,391; July 11.
- Trustman, Solomon, assignor of one-half to A. Emsley, Detroit, Mich. Combined phonograph and lamp. No. 1,438,277; Dec. 12.
- Tru-Way Razor Company. (See Vance, John H., assignor.)
- Trynoski, Robert S., Chicago, Ill. Boiled-potato-slicing machine. No. 1,417,360; May 23.
- Tscherning, Henry, assignor to Arcade Manufacturing Company, Freeport, Ill. Molding machine. No. 1,427,339; Aug. 29.
- Tschohl, Emil F. (See Delk, George, assignor.)
- Tubbs, Earl D., New York, N. Y. Shaft coupling. No. 1,404,841; Jan. 31.
- Tubbs, Earl D., New York, N. Y., assignor to Igoo Brothers, Newark, N. J. Shaft coupling. No. 1,406,247; Feb. 14.
- Tubbs, Earl D., New York, N. Y., assignor to Igoo Brothers, Newark, N. J. Shaft coupling. No. 1,429,982; Sept. 26.
- Tubes Limited. (See Reimann, Jacques, assignor.)
- Tubiolo, Anthony. (See Lo Verde, J., and Tubiolo.)
- Tubular Scaffolding Company, The. (See Palmer-Jones, Daniel, assignor.)
- Tubular Steel Automobile Wheel Manufacturing Company. (See Minnick, Frederick L., assignor.)
- Tubular Wall Company. (See Stbjkare, J. A., and Raiff, assignors.)
- Tubular Woven Fabric Company. (See Hirst, James, assignor.)
- Tubular Woven Fabric Company. (See Noble, Warren, assignor.)
- Tuck, George A., San Francisco, Calif. Air heater and ventilator. No. 1,406,111; Feb. 7.
- Tuck, George A., San Francisco, Calif. Valve and actuating means. No. 1,434,637; Nov. 7.
- Tucker, Barnett, New York, N. Y. Trousers-waistband construction. No. 1,434,973; Nov. 7.
- Tucker Brothers Manufacturing Company. (See Tucker, Emmitt M. and J. D., assignors.)
- Tucker Brothers Manufacturing Company. (See Tucker, Jesse D., assignor.)
- Tucker, Edwin J. (See Thompson, Charles W., assignor.)
- Tucker, Emmitt M. and J. D., assignors to Tucker Brothers Manufacturing Company, Sacramento, Calif. Spoke tightener. No. 1,424,530; Aug. 1.
- Tucker, Guy R., Citra, Okla. Cotton-scraper attachment. No. 1,411,818; Apr. 4.
- Tucker, Harry. (See Stamm, M., and Tucker.)
- Tucker, Henry T., Fort Smith, Ark. Mop. No. 1,406,248; Feb. 14.
- Tucker, Hilry M., Fort Worth, Tex. Boring machine. No. 1,430,339; Sept. 26.
- Tucker, James R. (See Schultz, A., Tucker, and Doyle.)
- Tucker, Jesse D. (See Tucker, Emmitt M. and J. D.)
- Tucker, Jesse D., assignor to Tucker Brothers Mfg. Co., Sacramento, Calif. Spoke tightener. No. 1,411,391; Apr. 4.
- Tucker, Jesse D., assignor to Tucker Brothers Manufacturing Company, Sacramento, Calif. Spoke-tightening shim. No. 1,422,637; July 11.
- Tucker, Lawrence T., Pollock, Mo. Hoisting apparatus. No. 1,422,904; July 18.
- Tucker, Lewis D., Gloucester, Mass. Toilet bowl. No. 1,430,417; Sept. 26.
- Tucker, Lewis M., and P. W. Hatfield, Wakefield, Mass., assignors to Wilcox & Gibbs Sewing Machine Co., New York, N. Y. Pull-off means for sewing machines. No. 1,437,786; Dec. 5.
- Tucker, Louis S., Philadelphia, Pa. Radiator for motor vehicles. No. 1,434,724; Nov. 7.
- Tucker, Ralph H., Los Angeles, Calif. Air lift. No. 1,434,800; Nov. 7.
- Tucker, William E., Winnaleah, Tasmania, Australia. Releasable coupling. No. 1,434,931; Nov. 7.
- Tucker, William J., Washington, D. C. Armor-piercing projectile. No. 1,408,148; Feb. 28.
- Tuckey, Harry A., San Francisco, Calif. Signal and illuminator for automobile radiator indicators. No. 1,431,065; Oct. 3.
- Tudor, Isobel, Brooklyn, N. Y. Holder. No. 1,438,794; Dec. 12.
- Tudor, James H., Cincinnati, Ohio. Door and window catch. No. 1,411,819; Apr. 4.
- Tueckmantel, Hugo, Irvington, N. J., assignor to The R. Neumann Hardware Co. Bag-frame fastener. No. 1,408,845; Mar. 7.
- Tufts, Leslie R. (See Drake, G. W., and Tufts.)
- Tuggle, Henry N., Clay Center, Kans. Generator and magneto bearing puller. No. 1,426,126; Aug. 15.
- Tulkan, Demeter, Cleveland, Ohio. Shoe attachment. No. 1,435,765; Nov. 14.
- Tullis, John K., New York, N. Y., assignor to Fulcra Tan Company, Irvington, N. J. Tanning preparation. No. 1,430,477; Sept. 26.
- Tulloch, David M., et al. (See Nordstrom, John P., assignor.)
- Tulloch, David M., Dunellen, and W. Bodge, Nutley, N. J., assignors, by mesne assignments, to B. L. Armstrong, Dunellen, N. J. Lock. No. 1,417,430; May 23.
- Tulloch, Thomas G., London, England, assignor, by mesne assignments, to Automotive Gas Producer Corporation. Means for altering the clearance in internal-combustion engines. No. 1,438,795; Dec. 12.
- Tully, Francis W., Chestnut Hill, Mass. Cloth finishing and product thereof. No. 1,417,587; May 30.
- Tuloup, Louis. (See Morel, F., and Tuloup.)
- Tumey, Charles H., Sr., San Antonio, Tex. Adjustable light visor. No. 1,415,245; May 16.
- Tungsten Products Company, The. (See Bleecker, Warren F., assignor.)
- Tunison, Burnell R., New York, N. Y., assignor to U. S. Industrial Alcohol Co. Fuel. No. 1,423,048; July 18.
- Tunison, Burnell R., New York, N. Y., assignor to U. S. Industrial Alcohol Co. Fuel of liquid type. No. 1,423,049; July 18.
- Tunison, Burnell R., New York, N. Y., assignor to U. S. Industrial Alcohol Co. Liquid fuel. No. 1,423,050; July 18.
- Tunley, Edgar H., Brooklyn, N. Y. Toy. No. 1,438,796; Dec. 12.
- Tunmer, Ernest, Chicago, Ill. Safety razor. No. 1,435,266; Nov. 14.
- Tunnel Machine Manufacturing and Engineering Company. (See Sheen, Milton R., assignor.)
- Tunnell, Frederic H., Philadelphia, Pa. Apparatus for the extraction of glue, gelatine, and the like. No. 1,421,620; July 4.
- Tunnell, Harry E., assignor to Fire Gun Manufacturing Company, Inc., New York, N. Y. Locking device for pump handles. No. 1,439,852; Dec. 26.
- Tunnichiff, Frank, Burslem, Stoke-on-Trent, England. Pouring spout. No. 1,416,309; May 16.
- Tunstall, William B., Worcester, Mass. Automatic mechanism for player pianos. No. 1,430,340; Sept. 26.
- Tunstedt Manufacturing Co. (See Gates, Louis W., assignor.)
- Tuomi, Uno E., Dallas, Tex. Reinforced composite building block. No. 1,428,127; Sept. 5.
- Tuozzoli, Joseph, Bridgeport, Conn. Spraying device for hot and cold water faucets. No. 1,432,501; Oct. 17.
- Tupper, Frank H., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Molded gear. No. 1,424,267; Aug. 1.
- Turan, Louis, Brooklyn, N. Y. Tire construction. No. 1,438,070; Dec. 5.
- Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Electric regulator. No. 1,405,956; Feb. 7.
- Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical regulation. No. 1,409,889; Mar. 14.
- Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Dynamo-electric machine. No. 1,434,974; Nov. 7.
- Turbeville, De Kalb, Roanoke, Ala. Kitchen cabinet. No. 1,424,531; Aug. 1.
- Türk, Eugen, Langerfeld, near Barmen, and E. Bösebeck, Barmen, Germany. Lace-braiding machine. No. 1,418,521; June 6.
- Turck, Joseph A. V., Wilmette, assignor to Felt & Tarant Mfg. Co., Chicago, Ill. Bearing. No. 1,416,246; May 16.
- Turco, Luis, Frankford, Pa. Plate or receptacle lifter. No. 1,404,669; Jan. 24.
- Turek, Edward J., St. Louis, Mo. Pneumatic tire. No. 1,425,812; Aug. 15.

Alphabetical list of patentees—Continued.

- Turel, Augustus M. (See Moon, Frank, assignor.)
 Turk, Frank, Pipestone, Minn. Watering trough. No. 1,414,532; May 2.
 Turk, Frank, assignor of one-half to J. Turk, Casselman, Pa. Noodle-cutting machine. No. 1,404,073; Jan. 17.
 Türk, Gustav, Meiningen, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Machine for manufacturing fiber strips from paper pulp and the like. No. 1,426,329; Aug. 15.
 Turk, John. (See Turk, Frank, assignor.)
 Turk, William F., and S. Nielsen, Brisbane, Queensland, Australia. Milking machine. No. 1,417,116; May 23.
 Turnbull, Wallace R., Rothesay, New Brunswick, Canada. Consolidating wood by compression. No. 1,403,722; Jan. 17.
 Turnbull, Wallace R., Rothesay, New Brunswick, Canada. Propeller. No. 1,427,178; Aug. 29.
 Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Brake mechanism for chain track vehicles. No. 1,407,964; Feb. 28.
 Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Windlass attachment for tractors. No. 1,417,784; May 30.
 Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Oiling system for transmissions. No. 1,429,466; Sept. 19.
 Turnell, Henry. (See Oertli, Lucy and C., and Turnell.)
 Turnell, Julius A. (See Spence, T. H., and Turnell.)
 Turner, Albert. (See Dunbar, H. W., and Turner.)
 Turner, Albert, and H. W. Dunbar, assignors to Norton Company, Worcester, Mass. Work-centering device for machine tools. No. 1,440,189; Dec. 26.
 Turner, Albert R., Brighton, England. Photographic-film-developing apparatus. No. 1,432,269; Oct. 17.
 Turner Auto Lock Company. (See Turner, George W., assignor.)
 Turner, Charles A., assignor of one-half to F. G. Waldenfelds, Chicago, Ill. System of electric-current distribution. No. 1,402,386; Jan. 3.
 Turner, Charles G., Atlanta, Ga. Ice-cream-cone-cutting machine. No. 1,402,810; Jan. 10.
 Turner, Claude V., Bartow, Fla. Tile for furnace grates of the checkerboard type. No. 1,437,328; Nov. 28.
 Turner, Douglas. (See Rosch, W. E., and Turner.)
 Turner, Douglas, and R. C. Grier, St. Louis, Mo. Universal drawing machine. No. 1,414,002; Apr. 25.
 Turner, Douglas, assignor to The Measuregraph Company, St. Louis, Mo. Fabric-measuring and cost-computing machine. No. 1,415,498; May 9.
 Turner, Douglas, assignor to Measuregraph Company, St. Louis, Mo. Lock for notching shears of measuring machines. No. 1,421,863; July 4.
 Turner, Douglas, St. Louis, Mo., assignor, by mesne assignments, to The Measuregraph Company. Register for fabric-measuring machines. No. 1,429,983; Sept. 26.
 Turner, Earl W., Kokomo, Ind. Timer mechanism. No. 1,417,361; May 23.
 Turner, Edward T., Dayton, Ohio. Automobile design and construction. No. 1,407,048; Feb. 21.
 Turner, Ernest, Urnston, near Manchester, England. Gas burner. No. 1,405,360; Jan. 31.
 Turner, Ernest J. (See Howard, B. H., and Turner.)
 Turner, Ernest J., Pittsburgh, Pa., and B. H. Howard, Washington, D. C. Feeder for ingot molds. No. 1,431,853; Oct. 10.
 Turner, Frank A., Boston, Mass. Clutch. No. 1,405,698; Feb. 7.
 Turner, Frederick A., London, England. Football, punch ball, net ball, and the like. No. 1,439,456; Dec. 19.
 Turner, Frederick E., assignor to Kansas City Elevator Manufacturing Company, Kansas City, Mo. Combined gear and sheave. No. 1,409,204; Mar. 14.
 Turner, George, and E. A. Fourneaux, Manchester, England. Aging machine. No. 1,403,990; Jan. 17.
 Turner, George W., Philadelphia, Pa. Gas heater for hot-air furnaces. No. 1,436,300; Nov. 21.
 Turner, George W., assignor to Turner Auto Lock Company, Minneapolis, Minn. Automobile ignition lock. No. 1,406,784; Feb. 14.
 Turner, Gerald E., Lynn, Mass. Shoe-back stabilizer. No. 1,407,181; Feb. 21.
 Turner, Gilbert H., Port Chester, N. Y. Damper. No. 1,427,868; Sept. 5.
 Turner, Giles M., Milwaukee, Wis. Truck. No. 1,434,572; Nov. 7.
 Turner, Harold H. (See Long, A. R., and Turner.)
 Turner, Henry B., Suisun, Calif. Traction-wheel tread. No. 1,413,204; Apr. 18.
 Turner, Henry F. (See Phipps, J. H., and Turner.)
 Turner, Henry H., Louisville, Ky. Combined film illuminating and sling cabinet. No. 1,413,507; Apr. 18.
 Turner, Hubert S., San Diego, Calif. Telephony. No. 1,402,691; Jan. 3.
 Turner, Hubert S., Washington, D. C. Telephony. No. 1,421,864; July 4.
 Turner, Hubert S., Washington, D. C. Telephony. No. 1,434,975; Nov. 7.
 Turner, Jack. (See Crisp, Thomas and T. F. M., assignors.)
 Turner, James. (See Crabill, P. P., and Turner.)
 Turner, James, and P. P. Crabill, Springfield, Ohio. Bumper for automobiles. No. 1,429,806; Sept. 19.
 Turner, James L., Sanford, N. C. Platform. No. 1,409,800; Mar. 14.
 Turner, James S. (See Burstall, W. H., and Turner.)
 Turner, James W., Statesville, Tenn. Motor-balancing device. No. 1,428,404; Sept. 5.
 Turner, John S., New Brunswick, N. J. Attachment for collapsible tubes. No. 1,405,361; Jan. 31.
 Turner, Johnston, Sheffield, England. Dowel. No. 1,419,652; June 13.
 Turner, Joseph O., Franklin, Ky. Oil burner. No. 1,439,041; Dec. 19.
 Turner, Joseph V., Wilson, N. C. Centrifugal casting machine. No. 1,429,807; Sept. 19.
 Turner, Laurence B., Cambridge, England. Thermionic apparatus applicable for wireless telegraphy and other purposes. No. 1,422,013; July 4.
 Turner Machine Company. (See Craw, Frank C., assignor.)
 Turner, Ninian J., Lincoln, Nebr. Label holder for reserve-stock records. No. 1,434,073; Oct. 31.
 Turner, Perry B., Americus, Ga. Chest-measuring device. No. 1,404,812; Jan. 31.
 Turner, Roy J., San Francisco, Calif., assignor to Efficiency File Co., Chicago, Ill. Index tab. No. 1,416,529; May 16.
 Turner, Samuel J., deceased, Chicago, assignor of one-half to O. Rabe, Wilmette, Ill.; The Northern Trust Company and Otto Rabe, executors. Strap tightener and fastener. No. 1,408,846; Mar. 7.
 Turner, Stanley S., et al. (See Clark, Edward W., assignor.) (Reissue.)
 Turner, Violet E., et al. (See Clark, Edward W., assignor.) (Reissue.)
 Turner, Walter E., Piqua, Ohio. V-notch liquid meter. No. 1,414,385; May 2.
 Turner, Walter V., deceased, Wilkinsburg, S. C.; McConahay, administrator, Edgewood, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Automatic car, train pipe, and electric coupling. No. 1,430,703; Oct. 3.
 Turner, William E., Tacoma, Wash. Sewing machine. No. 1,426,617; Aug. 22.
 Turner, William G., and J. E. Morrison, Memphis, Tenn. Cotton combing and cleaning machine. No. 1,438,879; Dec. 12.
 Turner, William J., Kansas City, Mo. Culvert. No. 1,403,063; Jan. 10.
 Turner, William R., et al. (See McFarland, William M., assignor.)
 Turner & Seymour Manufacturing Company, The. (See Hills, Sidney C., assignor.)
 Turney, Eugene T., Laboratories, Inc. (See Turney, Eugene T., assignor.)
 Turney, Eugene T., Holmes, N. Y., assignor to Eugene T. Turney Laboratories, Inc., Newark, N. J. Coil-winding machine. No. 1,414,679; May 2.
 Turney, Glenn E., Latham, Kans. Temper screw. No. 1,432,810; Oct. 24.
 Turney, Harry L., Portland, Oreg. Logging engine. (Reissue.) No. 15,335; Apr. 11.
 Turney, Lee L., Minneapolis, Minn. Internal-combustion engine. No. 1,427,984; Sept. 5.
 Turney, Paul W., assignor, by mesne assignments, to Z. E. Turney, surviving joint tenant, Washington, D. C. Producing ice-cream mix. No. 1,424,602; Aug. 1.
 Turney, Paul W., assignor, by mesne assignments, to Z. E. Turney, surviving joint tenant, Washington, D. C. Ice-cream mix and making it. No. 1,424,603; Aug. 1.
 Turney, Zelma E. (See Turney, Paul W., assignor.)
 Turnquist, Alexander N., Glencllyn, Ill. Garment fastener. No. 1,424,953; Aug. 8.
 Turnquist, Walter D., Ogden, Utah. Portable child's toilet seat. No. 1,410,427; Mar. 21.
 Turpin, John H., Bremerton, Wash. Electric fly killer. No. 1,412,497; Apr. 11.
 Turpin, John H., and O. B. Brookman, Bremerton, Wash. Cutting torch. No. 1,407,306; Feb. 21.
 Turpin, Percival B., Jr., Tampa, Fla. Foot valve for well casings. No. 1,403,359; Jan. 10.
 Turrel, Robert A. (See Childs, A. D., and Turrel.)
 Tusar, Joseph D., Forest City, Pa. Tie plate. No. 1,409,044; Mar. 7.
 Tüschel, Gustave, Atlanta, Ga. Varnish. No. 1,435,350; Nov. 14.
 Tutt, Montague W., assignor of one-half to Hulburd Engineering Company, Limited, London, England. Force pump. No. 1,413,205; Apr. 18.
 Tuttle, Earl, Grand Island, Nebr. Folding tent bed for automobiles. No. 1,424,222; Aug. 1.
 Tuttle, Grover G., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Drill-steel retainer. No. 1,414,234; Apr. 25.
 Tuttle, Grover G., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Drill-steel retainer. No. 1,429,808; Sept. 19.
 Tuttle, Grover G., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Drill-steel retainer. No. 1,429,809; Sept. 19.
 Tuttle, Grover G., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Drill-steel retainer. No. 1,429,810; Sept. 19.
 Tuttle, Harry B., Jeannette, Pa. Tire carrier. No. 1,423,699; July 25.

- Tuttle, James N., Newton Center, Mass., assignor to General Electric Company. Recorder. No. 1,406,507; Feb. 14.
- Tuttle, James N., Boston, Mass., assignor to General Electric Company. Recorder. No. 1,415,499; May 9.
- Tuttle, John C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tire-vulcanizing apparatus. No. 1,402,980; Jan. 10.
- Tuttle, Walter I., Providence, R. I., assignor to Frank Mossberg Company, Attleboro, Mass. Ratchet wrench. No. 1,426,127; Aug. 15.
- Tuttle, Walter I., Providence, R. I., assignor to Frank Mossberg Company, Attleboro, Mass. Handle construction for braces and the like. No. 1,438,970; Dec. 19.
- Twarogowski, Alexander, Detroit, Mich. Heel. No. 1,409,431; Mar. 14.
- Tweed, John B. (See Self, J. C., and Tweed.)
- Tweedale, Alonzo, et al. (See Von Vargyas, Eugene, assignor.)
- Tweeddale, John, and F. B. McCrosky, Los Angeles, Calif. Minced sardines. No. 1,406,590; Feb. 14.
- Tweedie, Charles, Jefferson City, Mo. Boot top. (Reissue.) No. 15,416; July 18.
- Tweedie, Charles, Jefferson City, Mo. Combined spat and puttee. No. 1,424,532; Aug. 1.
- Tweit, John A., Appleton, Minn. Rail joint. No. 1,426,618; Aug. 22.
- Twer, Albert, Nassau-on-the-Lahn, Germany. Furnace for the heating of rivets or the like. No. 1,404,331; Jan. 24.
- Twiddy, George T., Elizabeth City, N. C. Cutter for transfer rings. No. 1,402,323; Jan. 3.
- Twining, Frank B., assignor to Geo. P. Ide & Company, Inc., Troy, N. Y. Soft turndown collar. No. 1,416,530; May 16.
- Twining, Frank B., assignor to Geo. P. Ide & Company, Inc., Troy, N. Y. Multiply interwoven fabric for collars and cuffs. No. 1,420,504; June 20.
- Twining, Frank B., assignor to Geo. P. Ide & Company, Inc., Troy, N. Y. Soft turnover collar. No. 1,436,831; Nov. 28.
- Twining, Frank B., assignor to Geo. P. Ide & Company, Inc., Troy, N. Y. Multiply interwoven fabric for collars and cuffs. No. 1,436,832; Nov. 28.
- Twinsight Optical Company. (See Bugbee, Lucian W., assignor.)
- Twiss, Douglas F., Sutton Coldfield, assignor to The Dunlop Rubber Company, Limited, Westminster, London, England. Vulcanization of rubber and similar materials. No. 1,413,813; Apr. 25.
- Twiss, William J., assignor of one-half to J. I. McFarland, Calgary, Alberta, Canada. Pipe wrench. No. 1,407,238; Feb. 21.
- Twisted Wire & Steel Co. (See O'Connor, Daniel J., assignor.)
- Two Part Rim Co. Inc. (See Johnson, Alcin L., assignor.)
- Twombly, Willard I., Newark, N. J., assignor to Acme Accessories Corporation, New York, N. Y. Liquid-feeding means and pump. No. 1,437,278; Nov. 28.
- Twombly, Willard I., New York, N. Y. Liquid-feeding means and pump. No. 1,437,279; Nov. 28.
- Twombly, Willard I., Newark, N. J., assignor to Acme Accessories Corporation, New York, N. Y. Liquid-feeding means and pump. No. 1,437,280; Nov. 28.
- Twombly, Willard I., Newark, N. J., assignor to Acme Accessories Corporation, New York, N. Y. Fuel-feeding means for internal-combustion engines. No. 1,437,281; Nov. 28.
- Twombly, Willard I., Newark, N. J., assignor to Acme Accessories Corporation, New York, N. Y. Liquid-feeding means and pump. No. 1,437,282; Nov. 28.
- Twombly, Willard I., Newark, N. J. Liquid-feeding means and method. No. 1,437,283; Nov. 28.
- Womley, Herbert E., assignor to G. D. Parker, Riverside, Calif. Nail-feed mechanism. No. 1,409,801; Mar. 14.
- Womley, Herbert E., assignor to G. D. Parker, Riverside, Calif. Selective nail-feed mechanism. No. 1,412,984; Apr. 18.
- Twyman, Frank, assignor to Adam Hilger, Limited, London, England. Projection apparatus for gauging articles. No. 1,421,042; June 27.
- Tyer Rubber Company. (See Lochhead, Robert, assignor.)
- Tygar, Elizabeth A. (See Tygar, James W. and E. A.)
- Tygar, James W. and E. A., London, England. Gradually variable power transmission gear or drive. No. 1,428,999; Sept. 12.
- Tyler, Alva W., Chicago, Ill. Machine for filling valve bags. No. 1,437,876; Dec. 5.
- Tyler, Alva W., assignor to The American Cement Plaster Company, Chicago, Ill. Cutting machine. No. 1,417,117; May 28.
- Tyler, E. E., et al. (See Clark, Harold H., assignor.)
- Tyler, Edward B., Wayne City, Ill. Concrete-post mold. No. 1,417,644; May 30.
- Tyler, M. H., Manufacturing Co. (See Tyler, Melvin H., assignor.)
- Tyler, Melvin H., Torrance, Calif., assignor to M. H. Tyler Manufacturing Co., Muncie, Ind. Compound tool. No. 1,437,624; Dec. 5.
- Tyler, Ralph S., Cleveland Heights, assignor to The Chandler and Price Company, Cleveland, Ohio. Paper-cutting machine. No. 1,413,206; Apr. 18.
- Tyler, Robert Z., Atlanta, Ga. Control device. No. 1,402,549; Jan. 3.
- Tyler, W. S., Company, The. (See Disbro, Roger W., assignor.)
- Tyler, W. S., Company, The. (See Reynolds, Morley P., assignor.)
- Tynan, Daniel F., deceased, Cincinnati; F. M. Pabst, administratrix, South Norwood, Ohio. Register attachment. No. 1,429,811; Sept. 19.
- Typograph G. m. b. H. (See Dörne, Julius, assignor.)
- Tyrrell, Nathan E., Kansas City, Mo. Liquid-fuel-control apparatus. No. 1,432,502; Oct. 17.
- U. G. I. Contracting Company, The. (See Searle, Robert M., assignor.)
- Uber, Harry S., Philadelphia, Pa. Phonograph. No. 1,426,128; Aug. 15.
- Uber, Harry S., Philadelphia, Pa. Tube holder. No. 1,432,644; Oct. 17.
- Uccellini, Charles, Central Park, N. Y. Pelt treating and cleaning machine. No. 1,434,932; Nov. 7.
- Uckotter, George J. (See English, Andrew J., assignor.)
- Uebelmesser, Charles, assignor, by mesne assignments, to A. H. T. Banzhaf, New York, N. Y. Automatic tapering and cut-off tool. No. 1,402,271; Jan. 3.
- Uebelmesser, Charles, assignor, by mesne assignments, to A. H. T. Banzhaf, New York, N. Y. Variable support for cutting tools. No. 1,427,925; Sept. 5.
- Ueckert, John R., Dallas, Tex. Ring chuck. No. 1,428,868; Sept. 12.
- Uehling, Fritz F., assignor to Uehling Instrument Company, Paterson, N. J. Means for removing one or more ingredients of gas or other substance. No. 1,412,790; Apr. 11.
- Uehling Instrument Company. (See Uehling, Fritz F., assignor.)
- Ugaldea, Pantaleon, Brooklyn, and F. Madinabettia, New York, N. Y. Vehicle wheel. No. 1,409,624; Mar. 14.
- Uhl, Clement R., assignor to The Toledo Metal Furniture Company, Toledo, Ohio. Clutch for adjustable stools or the like. No. 1,435,627; Nov. 14.
- Uhlarik, Julius C., Valhalla, N. Y., assignor to Robins Conveying Belt Co. Revolving shaker screen. No. 1,423,370; July 18.
- Uhlemann, Theodore F., assignor to Nicholas Power Company, New York, N. Y. Lighting equipment for moving-picture machines. No. 1,432,370; Oct. 17.
- Uhler, Louis S., Detroit, Mich. Motion-picture camera. No. 1,409,980; Mar. 21.
- Uhlig, Charles M. (See Craddick, W. F., and Uhlig.)
- Uhlig, Franz, Berlin, Germany. Means for closing and opening skips. No. 1,415,066; May 9.
- Uhlig, Richard W., Arlington, N. J., assignor to Allen Typewriter Company, Allentown, Pa. Typewriting machine. No. 1,410,854; Mar. 28.
- Uhlig, Richard W., Arlington, N. J., assignor to Allen Typewriter Company, Allentown, Pa. Typewriting machine. No. 1,412,637; Apr. 11.
- Uline, M. J., Company, The. (See Uline, Michiel J., assignor.)
- Uline, Michiel J., Cleveland, assignor to The M. J. Uline Company, Toledo, Ohio. Method and apparatus for scoring ice. No. 1,420,788; June 27.
- Ullman, Aubrey M., assignor of one-half to W. A. Wallender, Springfield, Mo. Attachment for safes. No. 1,405,641; Feb. 7.
- Ullman, Joseph P., Burchard, Nebr. Trap. No. 1,436,833; Nov. 28.
- Ullman, Louis, New York, N. Y. Pliers and locking lug for replacing transmission covers on Ford cars. No. 1,407,362; Feb. 21.
- Ullman, Louis, New York, N. Y. Grease gun. No. 1,435,034; Nov. 7.
- Ullman, Mervin J. (See Le Merle, F. G., Ullman, and Barry.)
- Ullmann, Emanuel S., New York, N. Y. Mooring means for dirigibles. No. 1,413,948; Apr. 25.
- Ullmann, Max, Zwickau, Germany, assignor to K. Werth, The Hague, Netherlands. Production of negatives. No. 1,436,125; Nov. 21.
- Ullmann, Max, Zwickau, Germany, assignor to K. Werth, The Hague, Netherlands. Transfer negative. No. 1,436,629; Nov. 21.
- Ullom, Ralph B. (See Faust, E. C., Speicher, and Ullom.)
- Ullom, Ralph B., assignor to The Cyclone Manufacturing Company, Urbana, Ind. Coop and feeding park therefor. No. 1,416,531; May 16.
- Ullrich, Georg, Magdeburg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Magnetic separator. No. 1,404,074; Jan. 17.
- Ullrich, Pearl E., Chicago, Ill. Belt dressing. No. 1,429,467; Sept. 19.
- Ullrich, Rudolph, Newark, N. J. Stylographic fountain pen. No. 1,425,150; Aug. 8.
- Ullrich, Edward F., assignor to Toledo Scale Company, Toledo, Ohio. Piston-ring-testing machine. No. 1,419,428; June 13.
- Ulrich, Frank, Huntington Beach, Calif. Tubing drainer. No. 1,432,140; Oct. 17.

Alphabetical list of patentees—Continued.

- Ulrich, Horace W., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,408,046; Feb. 28.
- Uman, Morris, Brooklyn, N. Y. Inlaying designs in floor boards or the like. No. 1,431,067; Oct. 3.
- Umanoff, David, New York, N. Y. Spring clamp for telephone indexes. No. 1,440,038; Dec. 26.
- Umbdenstock, Walter, assignor to The Hill Pump Valve Company, Chicago, Ill. Machine for castellating nuts. No. 1,410,145; Mar. 21.
- Un, Wui K., Hongkong, Kwang Tung, China. Hat protector. No. 1,402,550; Jan. 3.
- Unchokeable Pump Limited. (See Hazell, John S., assignor.)
- Under-Feed Stoker Company of America, The. (See Blackburn, Arthur H., assignor.)
- Underhill, Charles R., Brooklyn, N. Y., assignor to Betts Electric & Manufacturing Corporation. Venting washer. No. 1,436,738; Nov. 28.
- Underhill, George H., deceased, Philadelphia, Pa.; L. U. Hussey, administratrix, Westfield, Mass. Phonograph. No. 1,438,000; Dec. 5.
- Underwood Computing Machine Company. (See Blake, Frank W., assignor.)
- Underwood Computing Machine Company. (See De Haven, G. E., and Schaaf, assignors.)
- Underwood Computing Machine Company. (See Giles, Louis E., assignor.)
- Underwood Computing Machine Company. (See Hanson, Hans, assignor.)
- Underwood Computing Machine Company. (See Hausman, Walter J., assignor.)
- Underwood Computing Machine Company. (See Oswald, Alfred E., assignor.)
- Underwood Computing Machine Company. (See Pitman, Henry L., assignor.)
- Underwood Computing Machine Company. (See Resch, Henry, assignor.)
- Underwood Computing Machine Company. (See Stickney, Burnham C., assignor.)
- Underwood Computing Machine Company. (See Thomas, Edward, assignor.)
- Underwood Computing Machine Company. (See Vickers, Harry H., assignor.)
- Underwood Computing Machine Company. (See Waldheim, John, assignor.)
- Underwood, George T., Maxwell, Calif. Hydraulic air compressor. No. 1,425,813; Aug. 15.
- Underwood, James B., Dunmore, Ky., assignor of one-fourth to J. F. Allison and one-fourth to J. O. Hayes, Deerlick, Ky. Fruit corer and slicer. No. 1,431,854; Oct. 10.
- Underwood, James J. (See Langton, V. F., and Underwood.)
- Underwood, John T. (See Morgan, Frank L., assignor.)
- Underwood, John W., assignor to Underwood Patent Side Car Proprietary Limited, Melbourne, Victoria, Australia. Support of motor-cycle side cars. No. 1,434,269; Oct. 31.
- Underwood, Kenneth C., Newark, N. J., J. E. Crane, Wilmington, Del., and J. M. Kessler, West Orange, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington Del. Apparatus for use in treating cellulose compositions with solvent vapors. No. 1,412,762; Apr. 11.
- Underwood Patent Side Car Proprietary Limited. (See Underwood, John W., assignor.)
- Underwood, Stephen R., Sullivan, Ill. Motor vehicle. No. 1,414,235; Apr. 25.
- Underwood Typewriter Company. (See Allard, J. Frank, assignor.)
- Underwood Typewriter Company. (See Bates, Harry, assignor.)
- Underwood Typewriter Company. (See Burns, Edward A., assignor.)
- Underwood Typewriter Company. (See Campbell, George W., assignor.)
- Underwood Typewriter Company. (See Corcoran, Cornelius B., assignor.)
- Underwood Typewriter Company. (See Davidson, Joshua E., assignor.)
- Underwood Typewriter Company. (See Dobson, William A., assignor.)
- Underwood Typewriter Company. (See Fortin, Benjamin P., assignor.)
- Underwood Typewriter Company. (See Glackin, Daniel T., assignor.)
- Underwood Typewriter Company. (See Harris, Hugh W., assignor.)
- Underwood Typewriter Company. (See Helmond, William F., assignor.)
- Underwood Typewriter Company. (See Hilsee, Charles M., assignor.)
- Underwood Typewriter Company. (See Howell, Arthur E., assignor.)
- Underwood Typewriter Company. (See Johnson, Arthur A., assignor.)
- Underwood Typewriter Company. (See Keene, Wendell P., assignor.)
- Underwood Typewriter Company. (See Kelly, William A., assignor.)
- Underwood Typewriter Company. (See Khalil, Seyed, assignor.)
- Underwood Typewriter Company. (See Kurowski, Alfred G. F., assignor.)
- Underwood Typewriter Company. (See Lasher, Hiram S., assignor.)
- Underwood Typewriter Company. (See Oswald, Alfred E., assignor.)
- Underwood Typewriter Company. (See Peterson, Edwin A., assignor.)
- Underwood Typewriter Company. (See Smith, Jesse A. B., assignor.)
- Underwood Typewriter Company. (See Taylor, Arthur K., assignor.)
- Underwood Typewriter Company. (See Thomas, Edward, assignor.)
- Underwood Typewriter Company. (See Waldheim, John, assignor.)
- Underwood Typewriter Company. (See Wherry, John A., assignor.) (Reissue.)
- Underwood Typewriter Company. (See Wood, Alfred J., assignor.)
- Underwood, William, Company. (See Durant, William B., assignor.)
- Underwriters Laboratories Inc. (See Smith, E. J., and Glos, assignors.)
- Unfug, Rudolf, Washington, D. C. Building construction. No. 1,411,138; Mar. 28.
- Ungar, Gustav A., Pelham Manor, N. Y. Flexible coupling. No. 1,422,638; July 11.
- Ungar, Gustave A., Pelham Manor, assignor to F. R. Blair & Co., Inc., New York, N. Y. Joint. No. 1,403,064; Jan. 10.
- Ungar, Gustave A., Pelham Manor, assignor to F. R. Blair & Co., Inc., New York, N. Y. Flexible coupling. No. 1,406,112; Feb. 7.
- Unger, Ernest, New York, N. Y. Chandelier. No. 1,406,508; Feb. 14.
- Unger, Magnus, Pittsfield, Mass., assignor to General Electric Company. Preparing furnace linings. No. 1,429,909; Sept. 19.
- Unger, Magnus, Pittsfield, Mass., assignor to General Electric Company. Induction heater. No. 1,431,997; Oct. 17.
- Unger, Max, New York, N. Y. Focusing under. No. 1,434,933; Nov. 7.
- Unger, Paul O. (See Fargo, C. R., and Unger.)
- Uni-Form Company. (See Church, William L., assignor.)
- Union Carbide & Carbon Research Laboratories, Inc. (See Benner, Raymond C., assignor.)
- Union Carbide & Carbon Research Laboratories. (See Erickson, Albert N., assignor.)
- Union Carbide & Carbon Research Laboratories, Inc. (See Hambuechen, Carl, assignor.)
- Union Carbide & Carbon Research Laboratories, Inc. (See MacKenzie, A. A., and Benner, assignors.)
- Union Carbide Company. (See Curme, George O., Jr., assignor.)
- Union Carbide Company. (See Herrly, Clarence J., assignor.)
- Union Chain and Manufacturing Company, The. (See Hay, Walter, assignor.)
- Union Industrial Company. (See Holt, Charles A., assignor.)
- Union Iron Works. (See Tidmarsh, Harry E., assignor.)
- Union Knitting Mills et al. (See Bausher, S. D., and Reed, assignors.)
- Union Machinery Company. (See Streich, Paul B., assignor.)
- Union Special Machine Company. (See Berger, Joseph, assignor.)
- Union Special Machine Company. (See Chalman, John E., assignor.)
- Union Special Machine Company. (See Heap, Jesse J., assignor.)
- Union Special Machine Company. (See Hughes, Robert R., Jr., assignor.)
- Union Special Machine Company. (See Moffatt, J. R., and Simmons, assignors.)
- Union Special Machine Company. (See Moffatt, James R., assignor.)
- Union Special Machine Company. (See Raynor, William E., assignor.)
- Union Special Machine Company. (See Rohn, Oscar E., assignor.)
- Union Special Machine Company. (See Scott, Walter W., assignor.)
- Union Special Machine Company. (See Seymour, Dudley S., assignor.)
- Union Special Machine Company. (See Tate, Samuel G., assignor.)
- Union Special Machine Company. (See Thero, Charlie, assignor.)
- Union Special Machine Company. (See Wohlpart, August J., assignor.)
- Union-Spezial Maschinenfabrik Gesellschaft mit beschränkter Haftung. (See Maier, Karl, assignor.)
- Union Steam Pump Company. (See Ambrose, Frank F., assignor.)
- Union Steel Products Company. (See Pierce, James E., assignor.)
- Union Steel Products Co. (See Towne, Earle A., assignor.)
- Union Switch & Signal Company, The. (See Anderson, H. A., and Smith, assignors.)
- Union Switch & Signal Company, The. (See Castleman, Frank M., assignor.)
- Union Switch & Signal Company, The. (See Coleman, John P., assignor.)

- Union Switch & Signal Company, The. (See Gilson, Robert M., assignor.)
 Union Switch & Signal Company, The. (See Holliday, John S., assignor.)
 Union Switch & Signal Company, The. (See Howard, Lemuel F., assignor.)
 Union Switch & Signal Company, The. (See Lewis, Lloyd V., assignor.)
 Union Switch & Signal Company, The. (See Lucas, Samuel M., assignor.)
 Union Switch & Signal Company, The. (See McCann, Ronald A., assignor.)
 Union Switch & Signal Company, The. (See McClelland, William H. M., Jr., assignor.)
 Union Switch & Signal Company, The. (See Neubert, Walter P., assignor.)
 Union Switch & Signal Company, The. (See Nicholson, Frank H., assignor.)
 Union Switch & Signal Company, The. (See Snavelly, Clarence S., assignor.)
 Union Switch & Signal Company, The. (See Zabel, William, assignor.)
 Union Tool Company. (See Newton, Daniel L., assignor.)
 Union Trust Company, The, et al., trustees. (See Kellogg, Chester A., assignor.)
 Union Trust Company, The, et al., trustees. (See Sommer, John, assignor.)
 Union Trust Company, The, et al., trustees. (See Sommer, William H., assignor.)
 Union Wire Mattress Company. (See Krueger, Edwin W., assignor.)
 Unit Motor Company. (See Smith, Frank W., assignor.)
 Unit Player Action Co., The. (See Hulder, Joseph P., assignor.)
 United Alloy Steel Corporation. (See Baker, H. C., and Lehman, assignors.)
 United Alloy Steel Corporation. (See Caldwell, William L., assignor.)
 United Alloy Steel Corporation. (See Lehman, Edward G., assignor.)
 United Alloy Steel Corporation. (See Schlafly, Julius H., assignor.)
 United Autographic Register Co. (See Jensen, Louis, assignor.)
 United Brass Manufacturing Company. (See Schultis, Charles F., assignor.)
 United Cereal & Grain Separator Co. of Indiana. (See Shultz, Charles A., assignor.)
 United Cigar Stores Company of America. (See Cohon, Benjamin J., assignor.)
 United Cigarette Machine Co. (See Koerner, Ewald, assignor.)
 United Concrete Pipe Co. (See Page, Stephen E., assignor.)
 United Engine Company. (See Rutherford, Neilson D., assignor.)
 United Engineering & Foundry Company. (See Gilling, Ethelbert N., assignor.)
 United Engineering & Foundry Company. (See Jones, Lloyd, assignor.)
 United Filters Corporation. (See Campbell, Robert C., assignor.)
 United Filters Corporation. (See Genter, Albert L., assignor.)
 United Fruit Company. (See Beakes, William E., assignor.)
 United Gas Improvement Company, The. (See Evans, O. B., and Terzian, assignors.)
 United Gas Improvement Company, The. (See Taussig, John H., assignor.)
 United Kingdom Oil Company Ltd., The. (See Forwood, George F., assignor.)
 United Lace & Braid Manufacturing Company of Auburn. (See Armitage, George H., assignor.)
 United Manufacturing & Distributing Company. (See Quam, James P., assignor.)
 United Mines and Manufacturing Company, The. (See Kohler, Ernest, assignor.)
 United Printing Machinery Company. (See Belluche, Frank R., assignor.)
 United Products Corporation of America. (See Biddle, Arthur, assignor.)
 United Products Corporation of America. (See Isaacs, Mone R., assignor.)
 United Refineries Company. (See Kormann, Frederick A., assignor.)
 United Shirt & Collar Company. (See Dormandy, Garry J., assignor.)
 United Shoe Machinery Corporation. (See Ashton, Orrell, assignor.)
 United Shoe Machinery Corporation. (See Ballard, Milton H., assignor.)
 United Shoe Machinery Corporation. (See Bates, Arthur, assignor.)
 United Shoe Machinery Corporation. (See Baxter, William C., assignor.)
 United Shoe Machinery Corporation. (See Beckman, Frank E., assignor.)
 United Shoe Machinery Corporation. (See Bertrand, Frederic E., assignor.)
 United Shoe Machinery Corp. (See Boothroyd, Frank E., assignor.)
 United Shoe Machinery Corporation. (See Boulton, George, assignor.)
 United Shoe Machinery Corporation. (See Bowie, Darwin W., assignor.)
 United Shoe Machinery Corporation. (See Bradford, C. M., and Simmons, assignors.)
 United Shoe Machinery Corporation. (See Brennan, William J., assignor.)
 United Shoe Machinery Corporation. (See Brice, Arthur W., assignor.)
 United Shoe Machinery Corporation. (See Brock, Matthias, assignor.)
 United Shoe Machinery Corporation. (See Brogan, James A., assignor.)
 United Shoe Machinery Corporation. (See Brogan, Michael F., assignor.)
 United Shoe Machinery Corporation. (See Brothers, Eli, assignor.)
 United Shoe Machinery Corporation. (See Brunell, Joseph, assignor.)
 United Shoe Machinery Corporation. (See Buckley, E., and White, assignors.)
 United Shoe Machinery Corporation. (See Buckminster, Ira C., assignor.)
 United Shoe Machinery Corporation. (See Bunker, Darius W., assignor.)
 United Shoe Machinery Corporation. (See Casgrain, Louis A., assignor.)
 United Shoe Machinery Corporation. (See Cavanagh, James, assignor.)
 United Shoe Machinery Corporation. (See Chateaufneuf, Frank, assignor.)
 United Shoe Machinery Corporation. (See Cheney, William G., assignor.)
 United Shoe Machinery Corporation. (See Clary, B. N., and Mayo, assignors.)
 United Shoe Machinery Corporation. (See Conner, Charles E., assignor.)
 United Shoe Machinery Corporation. (See Cosgrove, John W., assignor.)
 United Shoe Machinery Corporation. (See Davey, John F., assignor.)
 United Shoe Machinery Corporation. (See Doulett, Henry T., assignor.)
 United Shoe Machinery Corporation. (See Eaton, Harrison H., assignor.)
 United Shoe Machinery Corporation. (See Enslin, Herbert E., assignor.)
 United Shoe Machinery Corporation. (See Eppler, Andrew, assignor.)
 United Shoe Machinery Corporation. (See Erickson, Edward, assignor.)
 United Shoe Machinery Corporation. (See Fausse, Joseph, assignor.)
 United Shoe Machinery Corporation. (See Ferguson, George, assignor.)
 United Shoe Machinery Corporation. (See Fossa, Joseph, assignor.)
 United Shoe Machinery Corporation. (See Fowler, Alfred B., assignor.)
 United Shoe Machinery Corporation. (See Foye, Cyrus D., assignor.)
 United Shoe Machinery Corporation. (See Furber, Frederick M., assignor.)
 United Shoe Machinery Corporation. (See Glass, Perley R., assignor.)
 United Shoe Machinery Corporation. (See Glidden, Harvey L., assignor.)
 United Shoe Machinery Corporation. (See Goddu, G., and Mackenzie, assignors.)
 United Shoe Machinery Corporation. (See Gouldbourn, J., and Ricks, assignors.)
 United Shoe Machinery Corporation. (See Gouldbourn, Joseph, assignor.)
 United Shoe Machinery Corporation. (See Greenough, Henry B., assignor.)
 United Shoe Machinery Corporation. (See Grush, Elmer B., assignor.)
 United Shoe Machinery Corporation. (See Hadaway, John B., assignor.)
 United Shoe Machinery Corporation. (See Hart, Fred V., assignor.)
 United Shoe Machinery Corporation. (See Heys, John J., assignor.)
 United Shoe Machinery Corporation. (See Hill, George S., assignor.)
 United Shoe Machinery Corporation. (See Hubbard, William, assignor.)
 United Shoe Machinery Corporation. (See Huber, John P., assignor.)
 United Shoe Machinery Corporation. (See Hudson, Albert B., assignor.)
 United Shoe Machinery Corporation. (See Jackson, James E., assignor.)
 United Shoe Machinery Corporation. (See Jerram, A. E., Gouldbourn, and Ricks, assignors.)
 United Shoe Machinery Corporation. (See Johnson, Albert E., assignor.)
 United Shoe Machinery Corporation. (See Jorgensen, Bernhard, assignor.)
 United Shoe Machinery Corporation. (See Knight, Ralph F., assignor.)
 United Shoe Machinery Corporation. (See Knott, Clyde L., assignor.)
 United Shoe Machinery Corporation. (See La Chapelle, Fred N., assignor.)

Alphabetical list of patentees—Continued.

- United Shoe Machinery Corporation. (See Latham, Albert, assignor.)
 United Shoe Machinery Corporation. (See Lawson, Robert H., assignor.)
 United Shoe Machinery Corporation. (See Lee, Bernard S., assignor.)
 United Shoe Machinery Corporation. (See Leveque, Bernard T., assignor.)
 United Shoe Machinery Corporation. (See Littlefield, Augustine F., assignor.)
 United Shoe Machinery Corporation. (See Loomer, Henry M., assignor.)
 United Shoe Machinery Corporation. (See Lund, Thomas, assignor.)
 United Shoe Machinery Company. (See Mackenzie, Fred L., assignor.)
 United Shoe Machinery Corporation. (See Martin, Harry B., assignor.)
 United Shoe Machinery Corporation. (See Mayo, Benjamin F., assignor.)
 United Shoe Machinery Corporation. (See McFeely, Ronald F., assignor.)
 United Shoe Machinery Corporation. (See Megathlin, Ralph S., assignor.)
 United Shoe Machinery Corporation. (See Meyer, William C., assignor.)
 United Shoe Machinery Corporation. (See Miller, Homer B., assignor.)
 United Shoe Machinery Corporation. (See Moody, Fred M., assignor.)
 United Shoe Machinery Corporation. (See Morrison, Lewis J., assignor.)
 United Shoe Machinery Corporation. (See Moyer, David A., assignor.)
 United Shoe Machinery Corporation. (See Newton, Charles W., assignor.)
 United Shoe Machinery Corporation. (See Normandy, Charles O., assignor.)
 United Shoe Machinery Corporation. (See Phillips, Frederick W., assignor.)
 United Shoe Machinery Corporation. (See Pope, Joseph H., assignor.)
 United Shoe Machinery Corporation. (See Pym, Charles F., assignor.)
 United Shoe Machinery Corporation. (See Richardson, John H., assignor.)
 United Shoe Machinery Corporation. (See Ricks, F., and Aston, assignors.)
 United Shoe Machinery Corporation. (See Rigby, John H., assignor.)
 United Shoe Machinery Corporation. (See Rumney, Fred A., assignor.)
 United Shoe Machinery Corporation. (See Seely, T. H., and Simmons, assignors.)
 United Shoe Machinery Corporation. (See Shaw, Walter, assignor.)
 United Shoe Machinery Corporation. (See Simmons, Ralph C., assignor.)
 United Shoe Machinery Corporation. (See Smith, E. W., and Cabot, assignors.)
 United Shoe Machinery Corporation. (See Stanbon, Harry R., assignor.)
 United Shoe Machinery Corporation. (See Stewart, William C., assignor.)
 United Shoe Machinery Corporation. (See Taylor, Frederick W., assignor.)
 United Shoe Machinery Corporation. (See Toothaker, Fred E., assignor.)
 United Shoe Machinery Corporation. (See Topham, Laurence E., assignor.)
 United Shoe Machinery Corporation. (See Turber, Frederick M., assignor.)
 United Shoe Machinery Corporation. (See Wade, W. E., and Seely, assignors.)
 United Shoe Machinery Company. (See Walther, Heinrich, assignor.)
 United Shoe Machinery Corporation. (See Warren, Frank H., assignor.)
 United Shoe Machinery Corporation. (See Webb, Horace D., assignor.)
 United Shoe Machinery Corporation. (See Whitcomb, Harriet H., assignor.)
 United Shoe Machinery Corporation. (See White, Melbourne W., assignor.)
 United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)
 United Soda Fountain Company. (See Condon, Ernest L., assignor.)
 United States Automobile Accessories Manufacturing Company. (See Crafton, William L., assignor.)
 United States Automotive Corporation. (See Arbuckle, Samuel F., assignor.)
 U. S. Ball Bearing Manufacturing Company. (See Cooper, Sidney R., assignor.)
 U. S. Ball Bearing Manufacturing Company. (See Dlesk, John, assignor.)
 U. S. Ball Bearing Manufacturing Company. (See Parsons, Harry N., assignor.)
 United States Bedding Co., The. (See Steines, Henry, assignor.)
 U. S. Bottlers' Machinery Company. (See Risser, Arthur I., assignor.)
 United States Cast Iron Pipe & Foundry Company. (See Anthony, Thomas F., assignor.)
 United States Cast Iron Pipe & Foundry Company. (See Brown, Oakley T., assignor.)
 United States Cast Iron Pipe & Foundry Company. (See Fennimore, Frank M. B., assignor.)
 United States Cast Iron Pipe & Foundry Company. (See Ladd, James B., assignor.)
 United States Cast Iron Pipe & Foundry Company. (See Lemoine, Louis R., assignor.)
 United States Cast Iron Pipe & Foundry Company. (See Montgomery, James, assignor.)
 United States Cast Iron Pipe & Foundry Company. (See Myers, Walter S., assignor.)
 United States Caster Co. (See Van Meter, George F., assignor.)
 United States Chain and Forging Company. (See Reh-fuss, Martin O., assignor.)
 United States Chain and Forging Company. (See Senft, John, assignor.)
 United States Electric Manufacturing Corporation. (See Aischuler, Ernest, assignor.)
 U. S. Electrical Manufacturing Co. (See Johnson, C. E., and Brown, assignors.)
 U. S. Electroaluminizing Company. (See Schweinsberg, G. W., and Doyle, assignors.)
 U. S. Electro Galvanizing Company. (See Schweinsberg, George W., assignor.)
 United States Envelope Company. (See Choate, Percy F., assignor.)
 United States Envelope Company. (See Furman, Samuel, assignor.)
 United States Envelope Company et al. (See Levine, Harry, assignor.)
 United States Envelope Company. (See Swift, Willard E., assignor.)
 United States Fastener Company. (See Holmes, George A., assignor.)
 United States Ferro Alloys Corporation. (See Sicard, Hugh C., assignor.)
 United States Fire Works Manufacturing Company, The. (See Macchia, Samillo, assignor.)
 United States Fuse Corporation. (See Baker, Howard H., assignor.)
 United States Gauge Company. (See Aschenbach, Emerson L., assignor.)
 United States Gauge Company. (See Gabel, Carl, assignor.)
 United States Gauge Company. (See Gaiser, Paul, assignor.)
 United States Gauge Company. (See Ingham, Robert, assignor.)
 United States Gauge Company. (See Nelson, Ralph M., assignor.)
 United States Gauge Company. (See Place, Josiah W., assignor.)
 United States Gypsum Company. (See Birdsey, Charles R., assignor.)
 United States Gypsum Company. (See Brookby, Harry E., assignor.)
 U. S. High Speed Steel & Tool Corporation. (See Boerder, Anton, assignor.)
 United States Hoffman Machinery Corporation. (See Spencer, J. B., and Geldhof, assignors.)
 U. S. Industrial Alcohol Co. (See Backhaus, A. A., and Arentz, assignors.)
 U. S. Industrial Alcohol Co. (See Backhaus, Arthur A., assignor.)
 U. S. Industrial Alcohol Co. (See Burghart, Lloyd M., assignor.)
 U. S. Industrial Alcohol Co. (See Haner, Carl, Jr., assignor.)
 U. S. Industrial Alcohol Co. (See Hayes, Albert, assignor.)
 U. S. Industrial Alcohol Co. (See Rodebush, Worth H., assignor.)
 U. S. Industrial Alcohol Co. (See Schreiber, Walter T., assignor.)
 U. S. Industrial Alcohol Co. (See Steffens, John A., assignor.)
 U. S. Industrial Alcohol Co. (See Tunison, Burnell R., assignor.)
 U. S. Industrial Alcohol Co. (See Whitaker, M. C., and Backhaus, assignors.)
 U. S. Industrial Alcohol Co. (See Whitaker, Milton C., assignor.)
 U. S. Industrial Alcohol Co. (See Willkie, Herman F., assignor.)
 U. S. Industrial Alcohol Co. (See Winter, Ernest J., assignor.)
 U. S. Industries, Inc. (See Johnson, Carl E., assignor.)
 U. S. Light & Heat Corporation. (See Bliss, William L., assignor.)
 U. S. Light & Heat Corporation. (See Carpenter, Campbell C., assignor.)
 U. S. Light & Heat Corporation. (See Donop, August W., assignor.)
 U. S. Light & Heat Corporation. (See Harris, Joshua C., assignor.)
 U. S. Light & Heat Corporation. (See Norris, P. E., and Witmer, assignors.)
 U. S. Light & Heat Corporation. (See Steerup, Godfrey, assignor.)
 U. S. Light & Heat Corporation. (See Turbayne, William A., assignor.)

Alphabetical list of patentees—Continued.

- United States Metallic Packing Company, The. (See Light, R. A., and Price, assignor.)
 United States of America as represented by the Secretary of War. (See Edgar, Graham, assignor.)
 United States Ordnance Company. (See Asbury, Dorsey F., assignor.)
 United States Ordnance Company. (See Czegka, Victor H., assignor.)
 United States Playing Card Company, The. (See McCracken, James D., assignor.)
 United States Processes, Inc. (See Stokes, William E., assignor.)
 United States Radium Corporation. (See Dey, William H., assignor.)
 United States Railway Supply Company. (See McVoy, Vincen P., assignor.)
 U. S. Safety First Gate Corporation. (See Payne, Samuel R., assignor.)
 United States Sanitary Manufacturing Company. (See Jobe, J. S., Dixon, and Arrott, assignors.)
 U. S. Slicing Machine Company. (See Stukart, Hendrik, assignor.)
 United States Smelting Refining & Mining Company. (See Cullen, Joseph F., assignor.)
 United States Smelting, Refining & Mining Company. (See Hamilton, Edward H., assignor.)
 United States Wool Company, The. (See Weinberg, Solomon, assignor.)
 United Stores Supply Company. (See Smith, John W., assignor.)
 United-Xpedite Finishing Company. (See Lund, Thomas, assignor.)
 Universal Arch Company. (See Miller, Charles E., assignor.)
 Universal Arch Company. (See Schuttler, William, assignor.)
 Universal Car and Hose Coupler Company. (See di Le Compte, Onesime H., assignor.)
 Universal Car and Hose Coupler Company. (See Hebert, Onesime, assignor.)
 Universal Coal Machine Company, The. (See Palma, Frederic J., assignor.)
 Universal Conveyor Co. (See Landis, Irwin D., assignor.)
 Universal Device Company, The. (See Abbott, Augustus, assignor.)
 Universal Dowell Anchor Co., The. (See Hill, William P., assignor.)
 Universal Draft Gear Attachment Co. (See Nash, Charles J., assignor.)
 Universal Electric Welding Company. (See Lachman, Laurence S., assignor.)
 Universal Fixture Corporation. (See Cahusac, Clarence N., assignor.)
 Universal Fixture Corporation. (See Goldberg, Samuel, assignor.)
 Universal Gasket & Manufacturing Co. (See Rybicki, Edward A., assignor.)
 Universal Index Tab Company. (See Brenne, Carl F., assignor.)
 Universal Instruments and Metal Company, Inc. (See Phlich, Eugene, assignor.)
 Universal Interests, Inc. (See Roys, Herman E., assignor.)
 Universal Lug Company. (See Mueller, August E., assignor.)
 Universal Manufacturing Company. (See De Vol, B. E., and Monerief, assignors.)
 Universal Milking Machine Company, The. (See Schmitt, John A., assignor.)
 Universal Nut Lock Company. (See Birchman, A., Matter, and McCoy, assignors.)
 Universal Oil Products Company. (See Dubbs, Carbon P., assignor.)
 Universal Optical Corporation. (See Curtis, Thomas S., assignor.)
 Universal Optical Corporation. (See Searles, Wayne S., assignor.)
 Universal Remedies Company. (See Mottura, Domenico, assignor.)
 Universal Rim Company. (See Baker, Erle K., assignor.)
 Universal Seed Loading Company. (See Montague, J. W., and Patrick, assignors.)
 Universal Shoe Plate Company, The. (See West, Mansfield M., assignor.)
 Universal Tobacco Machine Co. (See Jackson, Graham H., assignor.)
 Universal Toy & Novelty Manufacturing Company. (See Giegler, Paul C., assignor.)
 Universal Turbine Company, The. (See Anderson, Emil, assignor.)
 Universal Utilities Manufacturing Company. (See Schierding, William, assignor.)
 Universal Winding Company. (See Adell, E., and Brink, assignors.)
 Universal Winding Company. (See Breen, Albert R., assignor.)
 Universal Winding Company. (See Taylor, George N., assignor.)
 Universal Window Company. (See Atkinson, Henry T., assignor.)
 Unkle, Charles W., and T. D. Griley, Baltimore, Ohio. Separating paper pulp. No. 1,437,787; Dec. 5.
 Uno, Masa, San Francisco, Calif. Tie puller. No. 1,431,710; Oct. 10.
 Uno, Denzo. (See Chikashige, M., and Uno.)
 Uno, Mitsu, San Francisco, Calif. Tool for aligning tracks. No. 1,416,999; May 23.
 Unser, Edward C., River Edge, N. J. Lining for traction vehicles. No. 1,419,085; June 6.
 Updegrave, William M., Johnstown, Pa. Coin-controlled apparatus. No. 1,408,317; Feb. 28.
 Upham, Gilbert R., assignor to The De Long Hook and Eye Company, Philadelphia, Pa. Socket member for snap fasteners. No. 1,407,687; Feb. 21.
 Upham, Henry P., Malden, Mass. Liquid-soap server. No. 1,412,428; Apr. 11.
 Upp, John W., Schenectady, N. Y., assignor to General Electric Company. Apparatus for assembling devices comprising a number of parts. No. 1,408,047; Feb. 28.
 Uppercu, Inglis M., New York, N. Y. Mail-operating device. No. 1,439,927; Dec. 26.
 Upton, Frank B., and W. C. Kirk, assignors to Patten Manufacturing Company, Chattanooga, Tenn. Water circulator for water-cooled engines. No. 1,428,722; Sept. 12.
 Upton, George W., Warren, Ohio. Fishing reel. No. 1,402,811; Jan. 10.
 Urban, Adolph O., Point Arena, Calif. Starting device for hydraulic pumps. No. 1,403,138; Jan. 10.
 Urban, George, Jr., Buffalo, N. Y. Camping vehicle. No. 1,412,379; Apr. 11.
 Urban, Lawrence L., Rowson, Ohio. Curtain-pole fastener. No. 1,411,139; Mar. 28.
 Urban Machine and Tool Company, The. (See Haumann, George, assignor.)
 Urbanek, Joseph, Chicago, Ill. Reversible mirror and picture frame. No. 1,436,615; Nov. 21.
 Urbutis, Jozapas, Chicago, Ill. Projectile. No. 1,409,045; Mar. 7.
 Urevig, Iver, Williston, N. Dak. Automobile sled. No. 1,429,658; Sept. 19.
 Ulrich, Benjamin, Milwaukee, Wis. Key-carrying chain. No. 1,423,280; July 18.
 Urlass, Harry, Lancaster, Pa. Clamping device for molding flasks. No. 1,435,189; Nov. 14.
 Urlin, George C. (See Anderson, Frank P., assignor.)
 Urness, Andrew A., Alexandria, Minn. Sign with interchangeable characters. No. 1,428,723; Sept. 12.
 Urquhart, Henry H., assignor of one-tenth to John W. Myerscough, St. Louis, Mo. Pile lifting jack. No. 1,410,968; Mar. 28.
 Urquhart, William K., Los Angeles, Calif., C. W. Post, Akron, D. E. Humphrey, Cuyahoga Falls, and C. C. Van Arsdale, Akron, Ohio, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Vulcanizing apparatus. No. 1,422,065; July 4.
 Urschel, William E., Valparaiso, Ind. Apparatus for the process of stemming fruit. No. 1,409,802; Mar. 14.
 Urschel, William E., Valparaiso, Ind. Apparatus for and process of stemming fruit. No. 1,409,803; Mar. 14.
 Urschel, William E., Valparaiso, Ind. Machine and process for stemming fruit. No. 1,409,804; Mar. 14.
 Usievich, Nighm I., San Francisco, Calif. Folding bed. No. 1,420,894; June 27.
 Usona Manufacturing Company. (See Long, William T., assignor.)
 Utica Valve and Fixture Company. (See Harris, George H., assignor.)
 Utility Compressor Company. (See Oswald, Earl P., assignor.)
 Utility Compressor Company. (See Robison, Floyd W., assignor.)
 Utke, Raymond A., Rock Island, Ill. Photoprint roller. No. 1,433,576; Oct. 31.
 Utley, Thomas, Liverpool, England. Ship's light. No. 1,429,379; Sept. 19.
 Utne, Per, South Orange, N. J. Bumper for motor vehicles. No. 1,417,118; May 23.
 Utrechtsche Patent Piipen Industrie. (See Van Doorn, Anthonius M., assignor.)
 Uttendorfer, Michael. (See Ryan, M. W., and Uttendorfer.)
 Utterback, Melville M., Chelan, Wash. Dishwashing machine. No. 1,414,058; Apr. 25.
 Utz, William A., Fort Worth, Tex. Key fastener. No. 1,438,198; Dec. 12.
 Utz, Anthony, Hartford, Conn., assignor to Royal Type-writer Company, Inc., New York, N. Y. Paper-feed pressure device for typewriting machines. No. 1,428,569; Sept. 12.
 Utz, Eugene F., Middletown, Ohio. Carburetor. No. 1,416,913; May 23.
 Utzinger, Max. (See Steinbuch, E., Ackermann, and Utzinger.)
 Uzold Tire Corporation. (See Hinger, William L., assignor.)
 V. Loutzkoy, Boris, Andreewka, Russia. Air-cushion hub. No. 1,426,886; Aug. 22.
 V. Loutzkoy, Boris, Andreewka, Russia. Pneumatic hub for vehicle wheels. No. 1,426,887; Aug. 22.
 V. Loutzkoy, Boris, Andreewka, Russia. Pneumatic hub for vehicle wheels. No. 1,426,888; Aug. 22.
 V. Rauchfuss, Kurt, Cuxhaven, and E. Jaeschke, Hamburg, Germany. Lateral dispersion device for machine guns. No. 1,413,936; Apr. 25.
 V. P. Auto Appliance Company Limited, The. (See Vineberg, J. E., Halliday, and Presner, assignors.)

Alphabetical list of patentees—Continued.

- V. B. M. Company. (See Moran, William F., assignor.)
V. M. L. Experimental Limited. (See Lucas, Owen D., assignor.)
Vaaler, Jens, assignor to Clemetsen Company, Chicago, Ill. Typewriter desk. No. 1,415,909; May 16.
Vacher, Clement. (See Casorso, N. P., and Vacher.)
Vachier, Rafael, Baton Rouge, La. Filtering apparatus for use with saccharine solutions. No. 1,438,797; Dec. 12.
Vacuum Company, The. (See Atkinson, William, assignor.)
Vacuum Glass Machine Company. (See Rohland, Charles A., assignor.)
Vacuum Oil Company. (See Cooke, George W., assignor.)
Vacuum Oil Company. (See Hooper, Charles L., assignor.)
Vacuum Oil Company. (See Imfield, John G., assignor.)
Vafiades, George, and J. Koukos, New York, N. Y. Fruit cutting and coring device. No. 1,422,066; July 4.
Vafiades, George, and J. Koukos, New York, N. Y. Fruit seeder and slicer. No. 1,423,490; July 18.
Vahe, Hector A., Decatur, Ill. Release rigging for couplings. No. 1,414,606; May 2.
Vail, Edith, New York, N. Y. Construction unit. No. 1,432,222; Oct. 17.
Vail, George, Emerado, N. Dak. Windmill. No. 1,437,370; Nov. 28.
Vaille Kimes Company, The. (See Roc, Harry F., assignor.)
Vailo, Pembroke A., Chicago, Ill. Center stay for tennis nets. No. 1,409,981; Mar. 21.
Vaille, Pembroke A., Chicago, Ill. Anchoring device. No. 1,412,582; Apr. 11.
Vaille, Edmond, and H. Bose, Marseille, France. Tube-filling device. No. 1,412,150; Apr. 11.
Vajda, Jozsef, Columbus, Ohio. Fender. No. 1,431,855; Oct. 10.
Val Duttonhofer Sons Company, The. (See Taylor, William H., assignor.)
Vale, Ruby R., Milford, Del. Vehicle wheel. No. 1,419,329; June 13.
Valente, Umberto A., Brooklyn, N. Y. Attaching handles and the like. No. 1,416,532; May 16.
Valentine, Fredrick A. and E. D., Minneapolis, Minn. Garden tractor. No. 1,429,178; Sept. 12.
Valentine, Robert D. (See Valentine, Fredrick A. and R. D.)
Valentine, W. L., et al. (See Holmes, Frank M., assignor.)
Valerius, Theodore L., Fort Atkinson, Wis., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Can sterilizing and drying apparatus. No. 1,430,201; Sept. 26.
Valerius, Theodore L., and O. Larsen, Fort Atkinson, Wis., assignors to The Creamery Package Mfg. Company, Chicago, Ill. Ice-cream freezer. No. 1,425,814; Aug. 15.
Valerius, Theodore L., and O. Larsen, Fort Atkinson, Wis., assignors to The Creamery Package Mfg. Company, Chicago, Ill. Lock for churn covers. No. 1,430,202; Sept. 26.
Valeur, Einar J., Barahona, Dominican Republic, West Indies. Diving suit. No. 1,420,640; June 27.
Valiquet, Louis P., assignor to The General Phonograph Manufacturing Company, Elyria, Ohio. Phonograph. No. 1,406,249; Feb. 14.
Valiquette, Gilles, Montreal, Quebec, Canada. Tire protector. No. 1,425,299; Aug. 8.
Valiquette, Moise. (See Vigneux, T., and Valiquette.)
Vallens, Eugene, New York, N. Y. Method and package for cigars in glass tubes. No. 1,426,792; Aug. 22.
Vallentyne, Emily, administratrix. (See Vallentyne, John F.)
Vallentyne, John F., Minneapolis, Minn.; Emily Vallentyne, administratrix. Grain blower. No. 1,412,031; Apr. 4.
Valley Electric Company. (See Ballman, Edwin C., assignor.)
Valley Forging Company. (See Dallmeyer, T. D., Brown, and Schultz, assignors.)
Valley Holding Corporation. (See Hanna, William E., assignor.)
Vallino, Lorenzo, Cuorgnè, Ivrea, Italy. Trolley for the aerial collection of current for electric traction in general. No. 1,404,496; Jan. 24.
Vallot, André, Paris, France. Device for mounting headlights on the bodies of motor cars. No. 1,408,149; Feb. 28.
Valls, Ricardo C., Barcelona, Spain. Method to render kapok and other fibers incombustible. No. 1,422,242; July 11.
Valois, Félix E., Haverhill, assignor to Hamel Shoe Machinery Company, Lynn, Mass. Presser-foot lock. No. 1,418,750; June 6.
Valois, Félix E., Haverhill, assignor to Hamel Shoe Machinery Company, Lynn, Mass. Awl motion. No. 1,418,751; June 6.
Valois, Félix E., Haverhill, assignor to Hamel Shoe Machinery Company, Lynn, Mass. Shuttle mechanism. No. 1,418,752; June 6.
Valois, Félix E., Haverhill, assignor to Hamel Shoe Machinery Company, Lynn, Mass. Take-up motion. No. 1,419,996; June 20.
Valois, Félix E., Haverhill, assignor to Hamel Shoe Machinery Company, Lynn, Mass. Looper mechanism for shoe-sewing machines. No. 1,419,997; June 20.
Valois, Félix E., Bridgeport, Conn., assignor to Hamel Shoe Machinery Company. Shoe, making same, and shoe-part fastener. No. 1,419,998; June 20.
Valois, Félix E., Haverhill, assignor to Hamel Shoe Machinery Company, Lynn, Mass. Stop motion for shoe-sewing machines. No. 1,422,639; July 11.
Valois, Félix E., Haverhill, assignor to Hamel Shoe Machinery Company, Lynn, Mass. Stop motion. No. 1,422,640; July 11.
Valois, Félix E., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Shoe machine. No. 1,425,558; Aug. 15.
Valve Bag Company, The. (See Hartman, Louis H., assignor.)
Van Aalst, Abram. (See Marotta, Gabriel, assignor.)
Van Aalten, Simon B. (See Cruijff, C. J., and Van Aalten.)
Vanadium Corporation of America. (See Saklatwalla, B. D., and Anderson, assignors.)
Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coking retort oven. No. 1,402,272; Jan. 3.
Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Carbon-consuming means for coke ovens. No. 1,410,783; Mar. 28.
Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coking retort oven. No. 1,410,784; Mar. 28.
Van Allen, George L. (See Maeulen, F., and Van Allen.)
Van Allen, George L. (See Sibley, A. H., and Van Allen.)
Van Allen, George L., Prince Bay, N. Y., assignor to Baker & Company, Inc. Fluxed solder. No. 1,429,703; Sept. 19.
Van Allen, Harvey W., Springfield, Mass. Radiosensitive element. No. 1,431,271; Oct. 10.
Van Altena, New York, N. Y. Picture-slide-projection apparatus. No. 1,428,347; Sept. 5.
Van Amburgh, Charles, Tacoma, Wash., assignor to American Smelting & Refining Company. Converter hood. No. 1,417,588; May 30.
Van Amstel, Adriaan F., Amersfoort, Netherlands. Liquid pump. No. 1,438,147; Dec. 5.
Van Arsdale, Clarence C. (See Urquhart, W. R., Post, Humphrey, and Van Arsdale.)
Van Arsdal, Wallace B. (See Chase, A. W., and Van Arsdal.)
Van Arsdal, Wallace B. (See Richter, G. A., and Van Arsdal.)
Van Atti, Peter, assignor of one-half to W. J. Miller, Kalamazoo, Mich. Swing or cradle. No. 1,436,834; Nov. 28.
Van Auken, Kenneth L., Chicago, Ill. Truck frame. No. 1,410,969; Mar. 28.
Van Bakel, Michel, Overpelt, near Neerpelt, Belgium. Change-speed gear. No. 1,414,063; Apr. 25.
Van Barneveld, Charles E. (See Leaver, E. S., and Van Barneveld.)
Van Brunt, Charles, Schenectady, N. Y., assignor to General Electric Company. Apparatus for measuring carbon dioxide in gaseous mixtures. No. 1,436,219; Nov. 21.
Van Brunt, John, assignor to Combustion Engineering Corporation, New York, N. Y. Furnace grate bar. No. 1,409,205; Mar. 14.
Van Brunt, John, Flushing, assignor to Combustion Engineering Corporation, New York, N. Y. Valve. No. 1,416,391; May 16.
Van Brunt, John, assignor to Combustion Engineering Corporation, New York, N. Y. Furnace. No. 1,423,281; July 18.
Van Brunt, John, assignor to Combustion Engineering Corporation, New York, N. Y. Furnace grate. No. 1,435,948; Nov. 21.
Van Brunt Manufacturing Company. (See Van Brunt, Willard A., assignor.)
Van Brunt, Willard A., assignor to Van Brunt Manufacturing Company, Horicon, Wis. Seeding machine. No. 1,439,928; Dec. 26.
Van Buskirk, Ernest K., assignor of one-half to H. I. Harris, Binghamton, N. Y. Work holder for endless conveyors. No. 1,418,185; May 30.
Van Buskirk, Leshar W., and P. W. Porter, assignors to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Reversible dipper tooth. No. 1,438,001; Dec. 5.
Van Buskirk, Robert N., Detroit, Mich., assignor to Morgan & Wright. Device for removing tires from molds. No. 1,418,753; June 6.
Van Buskirk, Robert N., Detroit, Mich., assignor to Morgan & Wright. Vulcanizer. No. 1,434,270; Oct. 31.
Van Camp Packing Company. (See Lemon, Robert L., assignor.)
Vance, John H., assignor to Tru-way Razor Company, Pittsburgh, Pa. Safety razor. No. 1,414,533; May 2.
Vance, Walter N., Chicago Heights, assignor to Durand Steel Locker Company, Chicago, Ill. Bin front. No. 1,406,304; Feb. 14.
Vance, Walter N., Chicago Heights, assignor to Durand Steel Locker Co., Chicago, Ill. Locking device for locker doors. No. 1,424,533; Aug. 1.

- Vance, Walter N., Chicago Heights, assignor to Durand Steel Locker Co., Chicago, Ill. Tire rack. No. 1,438,729; Dec. 12.
- Vanci, Jaroslav, Policen, Czecho-Slovakia. Building set. No. 1,434,861; Nov. 7.
- Van Cott, Albert, and J. Evans, Salt Lake City, Utah. Sorting machine. No. 1,422,800; July 11.
- Van Cott, Frank J., Unadilla, N. Y. Silo-reinforcing structure. No. 1,431,272; Oct. 10.
- Vanden Hoek, Samuel. (See Pearce, P. D., and Vanden Hoek.)
- Vanderbeck, Isadore, Huntsville, Mo. Chicken coop. No. 1,429,704; Sept. 19.
- Van Derbeck, Stephen G., Hackensack, N. J. Tank registering device. No. 1,412,429; Apr. 11.
- Vanderbeck, Herbert, assignor to The Timken-Detroit Axle Company, Detroit, Mich. Axle construction. No. 1,405,642; Feb. 7.
- Vanderbilt, R. T., Company. (See Lorentz, Benjamin E., assignor.)
- Vanderbilt, R. T., Company. (See Murrill, Paul I., assignor.)
- Van der Bogart, Frank S., et al. (See Whitney, William A., assignor.)
- Vanderbrouk, Harry A., New Britain, assignor of one-half to R. D. Heymann, Hartford, Conn. Floor or ceiling plate. No. 1,405,465; Feb. 7.
- Vander Horst, Henry L. (See Billingham, Milton C. J., assignor.)
- Vanderkleed, Charles E. (See Heidelberg, F., and Vanderkleed.)
- Vanderley, Cornelius L., and C. J. Jorgensen, San Francisco, Calif. Pneumatic tire. No. 1,435,566; Nov. 14.
- Vanderlip, Louis C., Elkhart, Ind. Motor-vehicle lock. No. 1,432,503; Oct. 17.
- Vanderlip, Louis C., Elkhart, Ind. Motor-vehicle lock. No. 1,437,480; Dec. 5.
- Vanderlip, Louis C., Elkhart, Ind. Self-adjusting bearing nut. No. 1,438,971; Dec. 19.
- Van der Meersch, André E. M., London, England. Instrument for producing lines. No. 1,406,785; Feb. 14.
- Van Der Nolle, Johannes A., Zaandam, Netherlands. Forming insulating material. No. 1,403,822; Jan. 17.
- Vanderveer, David E., assignor of one-half to C. W. Link, Los Angeles, Calif. Adjustable wind and storm shield for vehicles. No. 1,414,534; May 2.
- Vanderveld, Anthony. (See Dickerson, G. H., and Vanderveld.)
- Vanderveld, Anthony, assignor of one-half to S. E. Parrish, Grand Rapids, Mich. Measuring and computing machine. No. 1,420,612; June 20.
- Vandervell, C. A., & Company. (See Midgley, Albert H., assignor.)
- Van Der Volgen, William M., Bridgeport, Conn. Drainage device for boiler-feed-water pipes. No. 1,438,973; Dec. 19.
- Vanderval, Pieter, Brondesbury, London, England. Ship's davit. No. 1,430,516; Sept. 26.
- Van Deussen, Harry B. (See Young, C. R., and Van Deussen.)
- Van Deventer, C. B., et al. (See Clark, Harold H., assignor.)
- Van Deventer, Harry B., Sumter, S. C., assignor to Splitdorf Electrical Company, Newark, N. J. Ignition device for internal-combustion engines. No. 1,402,387; Jan. 3.
- Van Deventer, Harry B., assignor to Splitdorf Electrical Company, Newark, N. J. Ignition device for internal-combustion engines. No. 1,410,428; Mar. 21.
- Van Deventer, William O., assignor to The Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic straw stacker. No. 1,415,736; May 9.
- Van Doorn, Anthonius M., assignor to Utrechtsche Patent Pijpen Industrie, Utrecht, Netherlands. Pipe, cigar-holder, and the like. No. 1,408,847; Mar. 7.
- Van Doren, John B., Rockland, assignor to The National Fireworks Manufacturing Company, West Hanover, Mass. Toy machine gun. No. 1,422,392; July 11.
- Van Dorin, Harry W., assignor to The C. H. Campbell Furniture Company, Shelbyville, Ind. Telephone cabinet. No. 1,413,881; Apr. 25.
- Van Dorn, Herbert E., Chicago, Ill. Combined car and air coupling. No. 1,403,657; Jan. 17.
- Van Dorn, Herbert E., Chicago, Ill. Metal end construction for freight cars. No. 1,412,072; Apr. 11.
- Van Dorn Iron Works, The. (See Schaefer, Joseph F., assignor.)
- Van Dresser Brothers. (See Van Dresser, William C., assignor.)
- Van Dresser, William C., Detroit, Mich., assignor to Van Dresser Brothers. Reboring tool. No. 1,433,577; Oct. 31.
- Van Dusen, Charles A., assignor to The Toledo Standard Commutator Company, Toledo, Ohio. Spool or holder for commutators. No. 1,424,954; Aug. 8.
- Vandusen, Sadie A., et al. (See Nelson, Joyce C., assignor.)
- Van Duzer, Isaac V., Cazenovia, N. Y. Structural brick. No. 1,436,551; Nov. 21.
- Van Dyke, Clayton, Grand Rapids, Mich. Direction-signaling device for vehicles. No. 1,430,126; Sept. 26.
- Van Dyke, Frank G., Detroit, Mich. Electric heater. No. 1,418,496; June 6.
- Van Dyke, Frank G., Detroit, Mich. Electric heater. No. 1,419,330; June 13.
- Van Dyke, Karl S., Chicago, Ill., assignor to American Telephone and Telegraph Company. Synchronizing system. No. 1,412,908; Apr. 18.
- Van Dyke, William H. (See Anderson, C. J., and Van Dyke.)
- Van Eck, George H., Tampa, Fla. Ventilating toilet. No. 1,424,955; Aug. 8.
- Van Eck, George H., Tampa, Fla. Flush bowl. No. 1,432,141; Oct. 17.
- Van Emon, Burton C., San Francisco, and W. A. Wolf, Alameda, Calif. Safety lock for elevator doors. No. 1,421,043; June 27.
- Van Epp, Paul N., assignor of one-third to The Eclipse Railway Supply Company, Cleveland, Ohio. Trolley catcher. No. 1,433,492; Oct. 24.
- Van Eitten, Irvin L., New York, N. Y. Hinge. No. 1,405,362; Jan. 31.
- Van Eitten, John C., Portland, Oreg. Toy aeroplane. No. 1,421,621; July 4.
- Van Fleet, Elon J., Joliet, assignor to W. E. Pratt, Chicago, Ill. Screw jack. No. 1,436,121; Nov. 21.
- Van Fleet, Irwin J., assignor to W. Matches, Hamilton, Ontario, Canada. Food dispenser. No. 1,429,260; Sept. 19.
- Van Gelder, Henry, Jersey City, N. J. Buffer for vehicle bumpers. No. 1,402,324; Jan. 3.
- Vangiesen, Charles, Caro, Mich. Foldable wheel-barrow. No. 1,418,754; June 6.
- Van Guelpen, Herman A. (See Stuebing, W., jr., and Van Guelpen.)
- Van Guelpen, Louis J., Cincinnati, Ohio. Shoe-buttoning machine. No. 1,415,737; May 9.
- Van Guelpen, Louis J., Cincinnati, Ohio. Burnishing machine. No. 1,423,051; July 18.
- Van Guelpen, Louis J., Cincinnati, Ohio. Burnishing tool. No. 1,423,052; July 18.
- Van Guelpen, Louis J., Cincinnati, Ohio. Pasting machine. No. 1,423,282; July 18.
- Van Haersolte Van Haerst, Johan Christiaan Baron. (See Hibby, Walther, assignor.)
- Van Hees, Albert G., and W. Kirkpatrick, Kansas City, Kans. Extension table. No. 1,434,074; Oct. 31.
- Van Heusen, John M., Jamaica Plain, Mass. Eyeglasses. No. 1,407,450; Feb. 21.
- Vanhonsebrouck, Charles E., Salem Depot, N. H., assignor to Draper Corporation, Hopedale, Mass. Stop motion for looms. No. 1,424,956; Aug. 8.
- Van Hoogenhuyze, Cornelis J. C. (See Terwen, A. J. L., and van Hoogenhuyze.)
- Van Hooydonk, Adrian C., Canton, Ohio. Trolley retriever. No. 1,404,248; Jan. 24.
- Van Horn, Charles B., Detroit, Mich. Fluid compressor. No. 1,415,852; May 9.
- Van Horn, Charles B., Willow Grove, Pa. Wheel. No. 1,433,435; Oct. 24.
- Van Horn, Eugene J., Lake Park, Iowa. Engine stand. No. 1,404,075; Jan. 17.
- Van Horn, George T., Nutley, N. J. Door operator. No. 1,436,122; Nov. 21.
- Van Horn, John, San Francisco, Calif. Wrench. No. 1,429,812; Sept. 19.
- Van Horn, John A., Shelby, Ohio. Safety device for punching presses. No. 1,405,466; Feb. 7.
- Van Horn, Vandiver J., Chicago, Ill. Gun-tape-holding device. No. 1,425,815; Aug. 15.
- Van Horn, Vandiver J., Chicago, Ill. Wrench. No. 1,425,816; Aug. 15.
- Van Horn, Vandiver J., Chicago, Ill. Threaded nut. No. 1,432,043; Oct. 17.
- Van Horn, Vernon A. (See Polaski, H. P., and Van Horn.)
- Van Horn, William H. (See Kemp, W. W., and Van Horn.)
- Van Horning, Harry L., Waukesha, Wis. Spark plug for internal-combustion engines. No. 1,432,811; Oct. 24.
- Van Houten, Frank H., assignor to Dutchess Tool Company, Beacon, N. Y. Proofer belt. No. 1,427,869; Sept. 5.
- Van Houten, John M., Beacon, N. Y. Shingle mold. No. 1,416,079; May 16.
- Van Hove, Desire H., assignor to Reynolds Spring Company, Jackson, Mich. Spring structure. No. 1,424,744; Aug. 1.
- Van Husen, Norman W., Detroit, Mich. Draft regulator for furnaces. No. 1,406,305; Feb. 14.
- Van Kannel Revolving Door Company. (See Brunner, Herbert R., assignor.)
- Van Keuren, Marvin L., Syracuse, assignor to Intertype Corporation, Brooklyn, N. Y. Typographical machine. No. 1,439,586; Dec. 19.
- Van Keuren, William L., North Bergen, N. J., assignor to General Electric Company. Hermetical seal. No. 1,427,870; Sept. 5.
- Van Kirk, Arthur C., Middleton, assignor of one-half to H. M. Potter, Cincinnati, Ohio. Vacuum system. No. 1,405,363; Jan. 31.
- Van Kirk, Oscar. (See Flick, A., and Van Kirk.)
- Van Leeuwen, Adrian, Worcester, Mass. Automobile extricating attachment. No. 1,429,305; Sept. 19.
- Van Leggelo, Pieter, Los Angeles, Calif. Direct-ascent dyeing machine. No. 1,435,190; Nov. 14.

Alphabetical list of patentees—Continued.

- Van Loozen, Fred H., Lakewood, Ohio. Demountable rim. No. 1,423,283; July 18.
- Van Lynden, Robert A. Baron, Utrecht, Netherlands, assignor, by mesne assignments, to American Thermophone Company, Boston, Mass. Thermo-telephone transmitter and receiver. No. 1,431,196; Oct. 10.
- Van Marle, Martin, Lower Gornal, England. Means for feeding goods into and removing goods from annealing and other furnaces. No. 1,402,551; Jan. 3.
- Van Marle, Martin, Dudley, England. Continuous annealing furnace. No. 1,429,380; Sept. 19.
- Van Meeteren, Harry W., assignor of one-third to A. Edwards and one-third to H. Headley, Birmingham, England. Method of and means for assembling a pneumatic or elastic tire in relation to a rim or wheel. No. 1,432,311; Oct. 17.
- Van Meter, George F., assignor to United States Caster Co. Incorporated, Indianapolis, Ind. Locking means for caster pintles. No. 1,423,700; July 25.
- Van Meter, James W., San Francisco, Calif. Apparatus for underground-animal extermination. No. 1,403,461; Jan. 10.
- Van Meter, James W., San Francisco, Calif. Ore stamp mill. No. 1,405,467; Feb. 7.
- Van Meter, James W., San Francisco, Calif. Portable apparatus for generating poisonous gases. No. 1,419,653; June 13.
- Van Meter, James W., San Rafael, Calif. Chemical cartridge. No. 1,430,772; Oct. 3.
- Van Meter, James W., San Rafael, Calif. Method and apparatus for freeing the bottoms of vessels from barnacles and the like. No. 1,430,773; Oct. 3.
- Van Meter, Morton, assignor to Simplex Wire Wheel Company, Cadillac, Mich. Wheel hub. No. 1,417,119; May 23.
- Vann, Charles J., Brooklyn, N. Y. Food-dispensing apparatus. No. 1,416,764; May 23.
- Van Nattan, Verle V. (See Soldane, L. A. T., and Van Nattan.)
- Vannatter, Elias, Maynard, W. Va. Derailing device. No. 1,431,066; Oct. 3.
- Van Ness, Norman J., Wysox Township, Bradford County, Pa. Strainer for milk cans, pails, and the like. No. 1,421,622; July 4.
- Van Ness, T. C., jr., executor. (See Archibald, Robert A., assignor.)
- Vanette, Adair B., et al. (See Vannette, Jasper, assignor.)
- Vannette, Jasper, assignor of one-third to V. V. Vannette and one-third to A. B. Vannette, Tiffin, Ohio. Lawn mower. No. 1,412,583; Apr. 11.
- Vannette, Verne V., et al. (See Vannette, Jasper, assignor.)
- Van Noorden, E., & Co. (See Van Noorden, Ezekiel, assignor.)
- Van Noorden, Ezekiel, Brookline, assignor to E. Van Noorden & Co., Boston, Mass. Ventilator. No. 1,415,500; May 9.
- Van Norden, Rudolph W., San Francisco, Calif. Electromagnetic power-transmission apparatus. No. 1,422,243; July 11.
- Van Nostrand, Charles H., Orange, N. J. Manufacture of gasket and similar material. No. 1,409,206; Mar. 14.
- Van Orden, Fred A., North White Lake, N. Y. Trap nest. No. 1,434,271; Oct. 31.
- Vanorio, Joseph. (See Rapp, J. W., and Vanorio.)
- Van Orman, Bert L., assignor to L. A. Young Industries, Inc., Detroit, Mich. Intermittent driving mechanism. No. 1,428,724; Sept. 12.
- Van Orsdale, Allen A., Philadelphia, Pa. Container. No. 1,402,692; Jan. 3.
- Van Orsdale, Allen A., Philadelphia, Pa. Oil can. No. 1,411,542; Apr. 4.
- Van Ossel, William J., assignor of one-half to L. Sperling, Chicago, Ill. Hair cutter. No. 1,409,207; Mar. 14.
- Van Pelt, Frank. (See Heer, Otto F., assignor.)
- Van Pelt, James A., Morrilton, Ark. Minnow bucket. No. 1,436,835; Nov. 25.
- Van Raalte Company Inc. (See Thucka, Louis, assignor.)
- Van Rensselaer, Allen, Los Angeles, Calif. Container. (Reissue.) No. 15,347; May 2.
- Van Sant, Victor H., Newark, N. J. Air-inlet device. No. 1,407,049; Feb. 21.
- Van Sant, William S., Oakland, Calif. Ice scraper. No. 1,431,344; Oct. 10.
- Van Sant, William S., Fruitvale, assignor of one-third to E. N. McCutcheon and one-third to E. M. Hiatt, Oakland, Calif. Paper-cone-wrapping machine and the product obtained thereby. No. 1,434,934; Nov. 7.
- Van Schooneveld, Jasper, New York, N. Y. Daylight reflector. No. 1,434,075; Oct. 31.
- Van Sciver, Josiah H. (See Stockum, H. J., and Van Sciver.)
- Van Scoy, Howard, Chicago, Ill. Switching and braking device. No. 1,405,562; Feb. 7.
- Vanselow, Albert P. (See Benedetti, C. O., and Vanselow.)
- Vanselow, Waldemar. (See Benedetti, C. O., and Vanselow.)
- Van Slyke, John C., Washington, D. C. Self-winding time-switch clock. No. 1,413,075; Apr. 18.
- Van Steenbergh, Burhans, Goshen, N. Y. Apparatus for cracking mineral oil to produce gasoline. No. 1,407,339; Feb. 21.
- Van Steenbergh, Burhans, Goshen, N. Y. Treating mineral oil for the production of gasoline. No. 1,407,340; Feb. 21.
- Van Sweringen, George N. (See Busse, E. G., and Van Sweringen.)
- Van Sweringen, George N., assignor to Chicago Railway Equipment Company, Chicago, Ill. Combined release and support for brake beams. No. 1,428,192; Sept. 5.
- Van Tassell, William D., Newark, Ohio. Concrete burial vault. No. 1,403,579; Jan. 17.
- Van Tilburg, Harry W., Elkhart, Ind. Automobile securing device. No. 1,424,957; Aug. 8.
- Van Tuyl, Thomas. (See Cook, A. E., and Van Tuyl.)
- Van Valkenburg, Burt R. (See Van Valkenburg, Harold A. and B. R.)
- Van Valkenburg, Harold A. and B. R., Oakland, Calif. Automatic record rewind and replay mechanism for piano players. No. 1,420,594; June 20.
- Van Valkenburg, Hermon L., assignor to Industrial Controller Company, Milwaukee, Wis. Motor-starting switch. No. 1,420,789; June 27.
- Van Valkenburg, L. D. (See Halket, William, assignor.)
- Van Valkenburg, Randall T., Washington, D. C. Collapsible carrier. No. 1,414,535; May 2.
- Van Voorhis, Lawrence D. (See Van Voorhis, Willis A. and L. D.)
- Van Voorhis, Willis A. and L. D., Graysville, Tenn. Mixing device. No. 1,406,113; Feb. 7.
- Van Voorst, Theodore, Touchet, Wash. Flying machine. No. 1,428,066; Sept. 5.
- Van Vorst, George E. and J., Scotia, N. Y. Roofing machine. No. 1,427,871; Sept. 5.
- Van Vorst, John. (See Van Vorst, George E. and J.)
- Van Westrum, Leonard S., Zurich, Switzerland. Making roads. (Reissue.) No. 15,401; July 4.
- Van Wie, Edwin G., Detroit, Mich. Valve. No. 1,434,416; Nov. 7.
- Van Winkle, Eunice A., Waverly, Ill. Combination garment. No. 1,434,169; Oct. 31.
- Van Winkle, Leon, Seattle, Wash. Bolting-up device. No. 1,404,914; Jan. 31.
- Van Zile, Abraham, Long Beach, Calif. Rail chair. No. 1,404,076; Jan. 17.
- Vapo Stove Company, The. (See Schulenberg, Frederick H., assignor.)
- Vapor Car Heating Company. (See Cooley, Roswell P., assignor.)
- Vapor Car Heating Company. (See Geissinger, Harry G., assignor.)
- Vapor Car Heating Company. (See Lowell, Charles E., assignor.)
- Vapor Car Heating Company. (See Schwartz, Carl, assignor.)
- Varble, Paul L., Carrollton, Ill. Valve-spring compressor. No. 1,429,000; Sept. 12.
- Vardell, Arthur A., deceased; H. G. Vardell, executrix, Dallas, Tex. Mechanism for removing useful fiber from seeds. No. 1,426,687; Aug. 22.
- Vardell, Arthur A., deceased; H. G. Vardell, executrix, Dallas, Tex. Breast mechanism for fiber-treating machines, such as gins. No. 1,426,688; Aug. 22.
- Vardell, Arthur A., deceased; H. G. Vardell, executrix, Dallas, Tex. Doffing mechanism for gins. No. 1,426,689; Aug. 22.
- Vardell, Arthur A., deceased, by H. G. Vardell, executrix, Dallas, Tex. Mechanism for removing useful fiber from seeds. No. 1,436,372; Nov. 21.
- Vardell, Highland G., executrix. (See Vardell, Arthur A.)
- Varela, Frank F., Santa Ana, Calif. Crate-forming apparatus. No. 1,406,114; Feb. 7.
- Varga, Elizabeth, Elmhurst, N. Y. Counterpoised clothes fastener. No. 1,435,674; Nov. 14.
- Varga, Paul, assignor of one-half to The Aromint Manufacturing Company, Cincinnati, Ohio. Wrapping or labeling machine. No. 1,417,956; May 30.
- Varga, Paul, assignor to The Aromint Manufacturing Company, Cincinnati, Ohio. Wrapping machine. No. 1,424,534; Aug. 1.
- Variable Speed Gear, Limited, The. (See Ingoldby, Maurice K., assignor.)
- Varicle, Roger H., Los Angeles, Calif. Grapple. No. 1,406,704; Feb. 14.
- Variety Fire Door Company. (See Gervais, Wainwright B., assignor.)
- Variety Manufacturing Company. (See Backman, Herman, assignor.)
- Variety Manufacturing Company. (See Crowe, Frederick C., assignor.)
- Variety Manufacturing Company. (See Smurr, Samuel P., assignor.)
- Varinois, Marcel E. (See Curie, M., and Varinois.)
- Varker, Newton, Cuba, Wis. Corn harvester. No. 1,404,813; Jan. 31.
- Varland, Hiram H., Sioux City, Iowa. Manure spreader. No. 1,435,766; Nov. 14.
- Varley Duplex Magnet Company. (See Anderson, James C., assignor.)
- Varley Duplex Magnet Company. (See Varley, Richard, assignor.)
- Varley, Richard, Englewood, N. J., assignor to Varley Duplex Magnet Company. Circuit breaker and controlling mechanism. No. 1,438,002; Dec. 5.

- Varley, Richard, Englewood, N. J., assignor to Varley Duplex Magnet Company. Electrical switch device. No. 1,438,003; Dec. 5.
- Varley, Thomas W., New York, N. Y., assignor to Safety Car Heating & Lighting Company. Electrical apparatus. No. 1,429,381; Sept. 19.
- Varley, Thomas W., New York, N. Y., assignor to Safety Car Heating & Lighting Company. Commutator construction. No. 1,430,866; Oct. 3.
- Varley, Thomas W., New York, N. Y., assignor to The Safety Car Heating & Lighting Company. System of electrical distribution. No. 1,435,123; Nov. 21.
- Varlo, Erik L., Kongsberg, Norway. Wheel arrangement for agricultural machinery and the like. No. 1,413,303; Apr. 18.
- Varney, Merle A., Chicago, Ill. Fuel-controlling mechanism for internal-combustion engines. No. 1,406,591; Feb. 14.
- Varney, Theodore, Sewickley, assignor to Aluminum Company of America, Pittsburgh, Pa. Clamp device for electric conductors. No. 1,420,790; June 27.
- Varnum, George B., and L. G. Sexton, Los Angeles, Calif. Lock. No. 1,439,042; Dec. 19.
- Varnuska, Frank J., New York, N. Y. Toy house. No. 1,425,425; Aug. 8.
- Varvel, Sidney L., et al. (See Stevenson, Cecil V., assignor.)
- Vasselli, Anthony, Newark, N. J. Magazine pencil. No. 1,427,985; Sept. 5.
- Vasselli, Anthony, Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Turntable for talking machines. No. 1,409,432; Mar. 14.
- Vasselli, Anthony, Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Turntable. No. 1,416,080; May 16.
- Vathé, François, New York, N. Y. Grotesque doll. No. 1,435,267; Nov. 14.
- Vaucher, Charles, and R. Speitel, assignors to the Society Durand & Huguenin S. Q., Basel, Switzerland. Halogen derivatives of basic acridine dyestuffs and making same. No. 1,418,852; June 6.
- Vaughan, Andrew C. (See Vaucrain, Jacques L. and A. C.)
- Vaughan, Jacques L., Haverford, and A. C. Vaucrain, Philadelphia, Pa. Milling cutter. No. 1,432,579; Oct. 17.
- Vaughan, Jacques L., Haverford, and A. C. Vaucrain, Philadelphia, Pa. Milling cutter. No. 1,432,580; Oct. 17.
- Vaudreuil, John, Milwaukee, Wis. Dish basket. No. 1,433,759; Oct. 31.
- Vaudreuil, John, assignor to Sanitary Dishwashing Machine Company, Milwaukee, Wis. Soaping device. No. 1,418,497; June 6.
- Vaughan & Bushnell Manufacturing Company. (See Haines, George D., assignor.)
- Vaughan, Charles F., London, England. Grease cup. No. 1,426,929; Aug. 22.
- Vaughan, Frank, Honolulu, Hawaii, assignor to Libby, McNeil & Libby, Honolulu, Limited. Can-feeding machine. No. 1,402,121; Jan. 3.
- Vaughan, Henry A., assignor of one-half to G. F. Cothran, Selma, Ala. Toy circus. No. 1,429,382; Sept. 19.
- Vaughan, Henry F., Washington, D. C. Desk attachment. No. 1,433,250; Oct. 24.
- Vaughan, Henry H., Montreal, Quebec, Canada. Transmission of power. No. 1,409,319; Mar. 14.
- Vaughan, Henry H., Montreal, Quebec, Canada. Drying roll for paper-making machinery. No. 1,432,645; Oct. 17.
- Vaughan, Henry H., Montreal, Quebec, Canada. Drying roll for paper-making machinery. No. 1,434,170; Oct. 31.
- Vaughan, Henry H., Montreal, Quebec, Canada. Engine truck. No. 1,434,272; Oct. 31.
- Vaughan, Sanford S., Oak Park, Ill. Carpenter's plane. No. 1,439,207; Dec. 19.
- Vaughan, Thomas M., Lisbon, Ohio, assignor to B. F. Bain, Pittsburgh, Pa. Mechanical dancing toy. No. 1,407,451; Feb. 21.
- Vaughan, Thomas M., Lisbon, Ohio, assignor to Benjamin F. Bain, Pittsburgh, Pa. Mechanical toy. No. 1,410,429; Mar. 21.
- Vaughn, George A., and C. E. Stahl, assignors to The Parsons Company, Newton, Iowa. Digging machine. No. 1,418,109; May 30.
- Vaughn, John L., San Francisco, Calif. Drill press. No. 1,437,570; Dec. 5.
- Vaughn, Patrick H., Morris, Minn. Feed roller. No. 1,423,783; July 25.
- Vaughn, Patrick H., Morris, Minn. Grain separator. No. 1,428,926; Sept. 12.
- Vaux, Frederick J., assignor to Monitor Bi-Loop Radiator Company, Lancaster, Pa. Steam-generating boilers. No. 1,402,388; Jan. 3.
- Vaux, Frederick J., assignor to Monitor Bi-Loop Radiator Company, Lancaster, Pa. Trap bushing for radiators. No. 1,402,389; Jan. 3.
- Vavra, Frank, New York, N. Y. Tray. No. 1,411,943; Apr. 4.
- Vawter, Charles E., Philadelphia, Pa. Electrical measuring instrument. No. 1,426,619; Aug. 22.
- Vawter, Charles E., Philadelphia, Pa. Rail-bond tester. No. 1,426,620; Aug. 22.
- Vescey, John H., Johannesburg, Transvaal, South Africa. Fluid-pressure-actuated clamp particularly for rock-drill mountings. No. 1,404,179; Jan. 17.
- Veaux, Auguste, and G. Chakiris, Rye, N. Y. Amusement device. No. 1,409,071; Mar. 7.
- Vedder, John W., Worcester, Mass. Stone press rolls. No. 1,413,436; Apr. 18.
- Vedder, John W., Worcester, Mass. Stone press roll. No. 1,430,418; Sept. 26.
- Vedoe, Anton M., Quincy, Mass. Reamer. No. 1,424,268; Aug. 1.
- Vedovelli, Rudolph J., assignor to Illinois Mechanical Leather Co., Chicago, Ill. Belting and the like. No. 1,406,306; Feb. 14.
- Vedovelli, Edouard, Paris, France. Drill. No. 1,403,991; Jan. 17.
- Vedovelli, Edouard, Paris, France. Relay. No. 1,417,785; May 30.
- Vedovelli, Edouard, assignor to La Societe La Metal-lurgique Electrique, Paris, France. Extra-quick-acting circuit breaker. No. 1,428,821; Sept. 12.
- Vedovelli, Edouard, assignor to La Societe La Metal-lurgique Electrique, Paris, France. Electric transformer. No. 1,433,578; Oct. 31.
- Veck, Max, Lafayette, Pa. Brush or mop holder. No. 1,407,341; Feb. 21.
- Veeder, Curtis H., assignor to The Veeder Manufacturing Co., Hartford, Conn. Windshield for automobiles. No. 1,410,970; Mar. 28.
- Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Compensating device for oil-pump counters, etc. No. 1,411,984; Apr. 4.
- Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Flexible shaft and making same. No. 1,421,623; July 4.
- Veeder, Curtis H., assignor to The Veeder Manufacturing Co., Hartford, Conn. Tachometer. No. 1,421,865; July 4.
- Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Turnbuckle. No. 1,421,866; July 4.
- Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Counting mechanism. No. 1,439,773; Dec. 26.
- Veeder Manufacturing Company, The. (See Veeder, Curtis H., assignor.)
- Veenboer, Nicholas, Paterson, N. J. Wick device. No. 1,432,430; Oct. 17.
- Veenschoten, Vincent V., Erie, Pa. Feed-water regulator. No. 1,439,208; Dec. 19.
- Veenschoten, Vincent V., assignor to Northern Equipment Company, Erie, Pa. Fluid-pressure controller. No. 1,419,331; June 13.
- Veenschoten, Vincent V., assignor to Northern Equipment Company, Erie, Pa. Fluid-pressure controller. No. 1,430,127; Sept. 26.
- Vehse, William C., Apponaug, R. I. Collapsible tube. No. 1,433,049; Oct. 24.
- Veil, Louis F., Chicago, Ill. Fountain attachment. No. 1,437,695; Dec. 5.
- Veith, George. (See Lipscomb, Robert S., assignor.)
- Veitz, William C. (See Saltzman, J., and Veitz.)
- Velcio, John, assignor of one-third to C. A. Harpman and one-third to D. A. Frampton, Youngstown, Ohio. Combination pneumatic casing and rim. No. 1,433,312; Oct. 24.
- Velo, Anthony C., New York, N. Y., assignor of one-half to F. Trinca, West New York, N. J. Disappearing automobile top. No. 1,426,129; Aug. 15.
- Velting, George, jr. (See Velting, George, sr., and G., jr.)
- Velting, George, sr., and G., jr., Scarsdale, N. Y. Tire. No. 1,431,345; Oct. 10.
- Velvet Action Brake Lining Company. (See Barefoot, J. C., and Knee, assignors.)
- Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Mold. No. 1,413,693; Apr. 25.
- Venable, William M., Pittsburgh, Pa. Phonograph. No. 1,439,718; Dec. 26.
- Venema, George G., Grand Rapids, Mich. Clamp. No. 1,403,580; Jan. 17.
- Veneria, Zaverio R. D., Turin, Italy. Circuit-changing switch. No. 1,410,855; Mar. 28.
- Venn, Theodore H., assignor to Venn-Severin Machine Co., Chicago, Ill. Internal-combustion engine. No. 1,430,041; Sept. 26.
- Venn-Severin Machine Co. (See Venn, Theodore H., assignor.)
- Venter, Otto, Chemnitz, Germany. Method and machine for reducing cellulose to fibers and for transforming the same into the liquid state. No. 1,412,763; Apr. 11.
- Ventre, Henri, New York, N. Y. Closure fastener. No. 1,427,658; Aug. 29.
- Ventress, Robert E., sr., Mobile, Ala. Hydroplane. No. 1,436,552; Nov. 21.
- Venus Manufacturing Company. (See Janzow, Charles R., assignor.)
- Vera, Edward A., Chicago, Ill. Chauffeur's identification-tag holder. No. 1,429,119; Sept. 12.
- Vernin, Louis F., Algiers, Algeria. Illuminating device. No. 1,403,139; Jan. 10.
- Verch, Raymond, Albany, N. Y. Headlight for vehicles. No. 1,406,115; Feb. 7.
- Vercoe, Frederic H., et al. (See Wagner, Leslie A., assignor.)
- Verdin, Innes T., assignor to The Verdin Kappes & Verdin Company, Cincinnati, Ohio. Power-mechanism trip device. No. 1,429,468; Sept. 19.

Alphabetical list of patentees—Continued.

- Verdin Kappes & Verdin Company, The. (See Verdin, Innes T., assignor.)
- Verduzio, Rodolfo, Rome, Italy. Construction of aeroplanes. No. 1,430,128; Sept. 26.
- Vergano, Frank, New York, N. Y. Nonrefillable bottle. No. 1,410,430; Mar. 21.
- Vergin, Frederick T., South Bend, Ind. Antiskid attachment. No. 1,415,738; May 9.
- Verhey, Huibert C., assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Engine-cooling system. No. 1,425,151; Aug. 8.
- Verhulst, George F., et al. (See Cryan, William H., assignor.)
- Verlangieri, Basil, New York, N. Y. Windshield clearer. No. 1,407,605; Feb. 21.
- Vermeulen, Aurele, Los Angeles, Calif. Nonrefillable container. No. 1,427,245; Aug. 29.
- Vernam, Gilbert S., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Ciphering device. No. 1,416,765; May 23.
- Vernay, Marius, Cornillon-Beaujeu, France, assignor to E. Cadgene, Paterson, N. J. Machine for rubbing tissues. No. 1,426,690; Aug. 22.
- Verneau, Henry, assignor of one-half to H. A. Redheffer, St. Louis, Mo. Arithmetical game. No. 1,403,989; Jan. 17.
- Verner, Eyvind M., et al. (See Anderson, Albin E., assignor.)
- Vernet, Camille, and G. Rauch, Geneva, Switzerland, assignors to The Grasselli Chemical Company, Cleveland, Ohio. Preparing sodium salts of anthraquinone alpha disulphonic acids. No. 1,437,571; Dec. 5.
- Vernet, J. H., et al. (See Johnson, Siegfried, assignor.)
- Verneuil, Edward B., Mangum, Okla. Well-drilling machinery. No. 1,412,430; Apr. 11.
- Vernon, F. L. (See Moore, Claude, assignor.)
- Verno, George B., Philadelphia, Pa. Grinding machine. No. 1,412,725; Apr. 11.
- Vernon, Louis A., Dallas, Tex. Combination broiler and griddle. No. 1,437,739; Dec. 5.
- Vernon, Percy V., Keresley, England. Saw for cutting metals. No. 1,423,504; July 18.
- Verona Tool Works. (See Knell, Charles H., assignor.) (Reissue.)
- Verona Tool Works. (See Peters, Fred W., assignor.)
- Verona Tool Works. (See Woodings, Emanuel, assignor.)
- Verrando, Carlo, Turin, Italy. Controlling device for electric circuits. No. 1,424,328; Aug. 1.
- Verret, Nicholas J., Memphis, Tenn. Gas generator for oil burners. No. 1,418,407; June 6.
- Verse, Emil, Chemnitz, assignor to Maschinenfabrik Kappel Aktiengesellschaft, Kappel, Chemnitz, Germany. Shuttle embroidery machine. No. 1,427,564; Aug. 29.
- Verville, Alfred V., Detroit, Mich. Airplane-radiator mounting. No. 1,427,872; Sept. 5.
- Vervoort, Lambert H., Cleveland, Ohio. Bearing. No. 1,410,971; Mar. 28.
- Vescovi, Pietro P., Arma, Kans. Traction shoe. No. 1,438,148; Dec. 5.
- Vessey, Ernest A., London, England. Screw propeller. No. 1,438,413; Dec. 12.
- Vest, Eugene W., Mulberry Grove, Ill. Air valve for gas burners. No. 1,417,120; May 23.
- Vestal, Luther, Dearborn, assignor of one-half to N. J. Hudson, Buchanan County, near Dearborn, Mo. Weed puller. No. 1,411,316; Apr. 4.
- Vester, George E., Otterbein, Ind. Power-driven valve grinder. No. 1,411,140; Mar. 28.
- Vetter, John J., New Brunswick, and C. W. Hansen; said Hansen assignor to Otto E. Hansen & Sons, Perth Amboy, N. J. Electric heater. No. 1,404,497; Jan. 24.
- Vetter, Joseph, Toledo, Ohio. Tip-securing means for billiard cues. No. 1,427,873; Sept. 5.
- Vezie, Melbourne E., Cement, Okla. Gas burner. No. 1,408,716; Mar. 7.
- Viale, Spirito M., assignor to Armstrong Siddeley Motors Limited, Coventry, Warwick, England. Attachment of engine cylinders to crank cases. No. 1,432,371; Oct. 17.
- Violet-Chabrand, L., La Ciotat, France. Acetylene lighting apparatus. No. 1,411,141; Mar. 28.
- Viar, Raymond P., Lynchburg, Va. Jointer clamp. No. 1,410,084; Mar. 21.
- Vibber, Wheeler H., assignor of one-half to The Gillette-Vibber Co., New London, Conn. Conduit cap for electric installation. No. 1,407,307; Feb. 21.
- Vibber, Wheeler H., assignor of one-half to The Gillette-Vibber Co., New London, Conn. Swivel conduit-cap for electric installation. No. 1,407,308; Feb. 21.
- Viberg, Ernest R. (See Canfield, A. J., and Viberg.)
- Viberg, Ernest R., Montreal, Quebec, Canada. Refrigerator-car construction. No. 1,410,277; Mar. 21.
- Viberg, Ernest R., assignor to Canadian Car and Foundry Company Limited, Montreal, Quebec, Canada. Making brakebeam fulcrums. No. 1,414,607; May 2.
- Vicary, Arthur C. (See Armstrong, Edwin J., assignor.)
- Vick, John L. et al. (See Watkins Joseph W., assignor.)
- Vick, William H. et al. (See Watkins, Joseph W., assignor.)
- Vickers, Clarence R., Plainfield, N. J. Tool holder. No. 1,439,985; Dec. 26.
- Vickers, Harry H., Corona, assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,402,812; Jan. 10.
- Vickers, Harry H., Corona, assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,416,766; May 23.
- Vickers Limited. (See Buckham, G. T., and Nasmith, assignors.)
- Vicker Limited. (See Dawson, A. T., and Horne, assignors.)
- Vickers Limited. (See Dawson, A. T., and Buckham, assignors.)
- Vickers Limited. (See McKechnie, J., and Fender, assignors.)
- Vickers Limited. (See McKechnie, James, assignor.)
- Vickers, Robert. (See Flood, William, assignor.)
- Vickery, Frederick W., London, England. Lifting truck. No. 1,403,992; Jan. 17.
- Vickery, George A., Lexington, Mass. Receptacle. No. 1,416,914; May 23.
- Victor Lock Works. (See Ericson, Victor G., assignor.)
- Victor Pin-Setter Company. (See Olsen, Alfred N., assignor.)
- Victor Piston Ring Company. (See Butler, Jay E., assignor.)
- Victor Slicing Machine Co., The. (See Lippincott, Fisher H., assignor.)
- Victor Talking Machine Company. (See Rudnick, George E., assignor.) (Reissue.)
- Victor Talking Machine Company. (See Squibb, Lloyd Y., assignor.)
- Victor X-Ray Corporation. (See Kelly, Edwin W., assignor.)
- Victorero, Agustin, Lastres, Spain. Machine for the elaboration of cigarettes. No. 1,439,345; Dec. 19.
- Victoria Falls and Transvaal Power Company, The. (See Price, Bernard, assignor.)
- Victorine, Edward, Cedar Rapids, Iowa. Egg-preserving compound. No. 1,423,053; July 18.
- Victorsohn, Morris, New York, N. Y. Motor. No. 1,406,250; Feb. 14.
- Victorsohn, Morris, Jersey City, N. J. Phonograph cabinet. No. 1,407,309; Feb. 21.
- Victory Hammered Piston Ring Company. (See Kistner, Herman, assignor.)
- Vidaver, Maxwell, New York, N. Y. Machine for sealing and stamping envelopes. No. 1,421,867; July 4.
- Viden, Samuel C., Milwaukee, Wis. Pan greaser. No. 1,407,102; Feb. 21.
- Videtto, George C., Pittsburgh, Pa. Conveying apparatus. No. 1,426,691; Aug. 22.
- Vieregg, Henry, Grand Island, Nebr. Automatic fire escape. No. 1,438,880; Dec. 12.
- Vierow, Thomas S., Jersey City, N. J. Dough-dividing machine. No. 1,423,371; July 18.
- Viers, Burr D., Red Lodge, Mont. Electrically-operated saw. No. 1,425,152; Aug. 8.
- Vigier, Marcel. (See Laurency, G. C., and Vigier.)
- Vigneault, George N. (See Vigneault, Henry J., assignor.)
- Vigneault, Henry J., assignor of one-half to G. N. Vigneault, Worcester, Mass. Collar. No. 1,407,342; Feb. 21.
- Vigneault, Henry J., assignor of one-half to G. N. Vigneault, Worcester, Mass. Front fastening for soft collars. No. 1,425,153; Aug. 8.
- Vigneux, Theodore, and M. Valiquette, Magog, Quebec, Canada. Movable supporting device for clippers. No. 1,405,079; Jan. 31.
- Viking Specialty Company. (See Gifford, W. E., and Smith, assignors.)
- Viles, Joseph T., Indianapolis, Ind. Removable-petal dining table. No. 1,406,116; Feb. 7.
- Villa, Ludwig D. (See Cigol, F. A., and Villa.)
- Villani, Anthony and J., Brooklyn, N. Y. Stamp-affixing machine. No. 1,417,362; May 23.
- Villani, John. (See Villani, Anthony and J.)
- Villaret, Gustave E., New York, N. Y. Electric-light fixture. (Reissue.) No. 15,455; Sept. 12.
- Villarreal, Enrique, New York, N. Y. Assembling-guide buffer and matrix-delivery-belt-entrance cover. No. 1,403,360; Jan. 10.
- Villarreal, Enrique, New York, N. Y. Knife-wiping attachment for type-casting machines. No. 1,420,595; June 20.
- Villaume, Henry, New York, N. Y. Tobacco pipe. No. 1,403,527; Jan. 17.
- Villeneuve, Walter W., and R. C. Fischer, Oakland, Calif. Potato peeler. No. 1,436,124; Nov. 21.
- Villiger, Victor, and H. von Krannichfeldt, assignors to Badische Anilin- & Soda-Fabrik, Ludwigshafen-on-the-Rhine, Germany. Fast dyeing. No. 1,431,136; Oct. 3.
- Villioff, Bert. (See Marona, C., and Villioff.)
- Villochi, John A., assignor of one-half to L. J. Villochi, Easton, Pa. Tire rim. No. 1,427,707; Aug. 29.
- Villochi, Louis J. (See Villochi, John A., assignor.)
- Vinal, George W. and H. D. Holler, Washington, D. C. Dry cell. No. 1,406,429; Feb. 14.
- Vince, Joseph, Brooklyn, N. Y. Flash light. No. 1,404,077; Jan. 17.
- Vincent, Edward H., Detroit, Mich. Locking and tilting steering wheel. No. 1,438,004; Dec. 5.
- Vincent, Edward H., Detroit, Mich. Steering wheel. No. 1,438,005; Dec. 5.
- Vincent, Ernest P., New York, N. Y. Sign. No. 1,421,044; June 27.

Alphabetical list of patentees—Continued.

- Vincent, Felix J., Chicago, Ill. Sectional metal shelving. No. 1,432,044; Oct. 17.
- Vincent, Franz, Bridgeport, Conn. Pocket knife. No. 1,411,649; Apr. 4.
- Vincent Gilson Engineering Co. (See Thacher, George H., Jr., assignor.)
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Detachable aircraft-propeller hub. No. 1,406,251; Feb. 14.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Radiator and thermostat unit construction. No. 1,409,072; Mar. 7.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. No. 1,409,073; Mar. 7.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. No. 1,415,067; May 9.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. No. 1,415,498; June 6.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Vibration damper for hydrocarbon motors. No. 1,422,324; July 11.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. No. 1,424,427; Aug. 1.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. No. 1,424,428; Aug. 1.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. No. 1,424,693; Aug. 1.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. No. 1,424,694; Aug. 1.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. No. 1,431,435; Oct. 10.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. No. 1,434,638; Nov. 7.
- Vincent, John W., Kansas City, Mo., assignor to Vincent Metal Weatherstrip Company. Weather-strip-forming machine. No. 1,410,785; Mar. 28.
- Vincent, Louis N., assignor to Imperial Steam Appliance Company, Seattle, Wash. Grease cup. No. 1,439,853; Dec. 26.
- Vincent, Louis N., assignor to Imperial Steam Appliance Company, Seattle, Wash. Automatic means for draining steam engines. No. 1,439,854; Dec. 26.
- Vincine Metal Weatherstrip Company. (See Vincent, John W., assignor.)
- Vindrier, Stephane L. J., assignor to the firm Mathieu, Durand et Cie., Lyon, France. Apparatus for feeding liquid fuel to internal-combustion engines. No. 1,416,915; May 23.
- Vineberg, Joseph H., J. Halliday, and J. Presner, assignors to The V. P. Auto Appliance Company, Limited, Montreal, Quebec, Canada. Windshield attachment. No. 1,426,793; Aug. 22.
- Viner, John H., Minneapolis, Minn. Cream and egg whipper. No. 1,427,986; Sept. 5.
- Vink, Matthias J., New York, N. Y. Intermittent-feeding mechanism. No. 1,428,927; Sept. 12.
- Vining, Leonard E., Lucknow, India. Apparatus for preventing theft from closed compartments. No. 1,429,306; Sept. 19.
- Vinson, Clay R., Tulsa, Okla. Napkin-dispensing device. No. 1,423,701; July 25.
- Vinson, James G., assignor of one-half to R. L. Coleman, Graham, Ky. Trolley harp. No. 1,427,659; Aug. 29.
- Vint, William J., Stockton, Calif. Camping trailer. No. 1,422,498; July 11.
- Vinton, John H., Keene, N. H., assignor to Baxter D. Whitney & Son, Inc., Winchendon, Mass. Swinging bracket for heel-shaping machines. No. 1,405,879; Feb. 7.
- Vintschger, Max. (See Schwarz, G. H., and Vintschger.)
- Viol, Charles H., assignor to Standard Chemical Company, Pittsburgh, Pa. Radium applicator. No. 1,406,509; Feb. 14.
- Violet, Marcel A., Levallois-Perret, France. Elastic fork for motor cycles and other vehicles having a single steering wheel. No. 1,424,695; Aug. 1.
- Virden Company, The. (See Pfeiffer, Paul J., assignor.)
- Virgens, Herman J., Welcome, Minn. Controlling mechanism for tractors. No. 1,407,606; Feb. 21.
- Virgilio, Victor A., St. Louis, Mo. Adjustable safety guard for emery wheels. No. 1,406,914; Feb. 14.
- Virginia Plate Glass Corporation. (See Icenhour, Albert A., assignor.)
- Virzi, Giuseppe, New York, N. Y. Sound-producing instrument. No. 1,408,150; Feb. 28.
- Virzi, Giuseppe, New York, N. Y. Tone amplifier for stringed instruments. No. 1,412,584; Apr. 11.
- Vis, Gerhard N., Paris, France. Transforming alkali-metal monochromates into bichromates or chromic acid. No. 1,429,001; Sept. 12.
- Viscoloid Co. et al., The. (See Brooks, Benjamin T., assignor.)
- Viscoloid Company, The. (See Person, Earl R., assignor.)
- Viscose Company, The. (See Clayton, James, assignor.)
- Visitacion, Aniceto R., Brooklyn, N. Y. Toy. No. 1,420,505; June 20.
- Visotski, Anthony. (See Wysock, John, assignor.)
- Visscher, Charles R. H. (See Walker, W. B., and Visscher.)
- Vissering, Harry, Chicago, Ill. Fire door. No. 1,405,172; Jan. 31.
- Vissering, Harry, Kenilworth, assignor to The Okadee Company, Chicago, Ill. Locomotive-boiler front-end hinge. No. 1,431,197; Oct. 10.
- Vissering, Harry, & Company. (See Anderson, Harry T., assignor.)
- Vitanola Talking Machine Company. (See Schiff, Henry T., assignor.)
- Vitolo, Richard. (See Mouromtzeff, I., and Landress, assignors.)
- Vit-O-Net Mfg. Co. (See Craddick, W. F., and Uhlig, assignors.)
- Vittlea Development Corporation. (See Dieter, William, assignor.)
- Vivian, George S., Golders Green, London, England. Perpetual calendar. No. 1,432,504; Oct. 17.
- Vixson Company, The. (See Heames, Richard M., assignor.)
- Vlcek, Frank J., and A. Placek, Cleveland, Ohio, assignor to The Vlcek Tool Company. Tool-quenching tank and the like. No. 1,433,861; Oct. 31.
- Vlcek Tool Company, The. (See Vlcek, F. J., and Placek, assignors.)
- Vliet, Elmer B. (See Burdick, A. S., and Vliet.)
- Vodicka, John, assignor to Cinch Fastener Corporation, Chicago, Ill. Curtain fastener. No. 1,415,129; May 9.
- Vodicka, John, assignor to Cinch Fastener Corporation, Chicago, Ill. Curtain fastener. No. 1,425,618; Aug. 15.
- Vodicka, John, assignor to Cinch Fastener Corporation, Chicago, Ill. Grommet. No. 1,430,129; Sept. 26.
- Vodicka, John, and A. W. Kimbell, assignors to Cinch Fastener Corporation, Chicago, Ill. Curtain fastener. No. 1,438,972; Dec. 19.
- Vodoz, Frederick W., Chicago, Ill. Lubricator cup and insertable container. No. 1,412,638; Apr. 11.
- Voegeli, Emil G., Monticello, Wis. Tractor motor truck. No. 1,438,414; Dec. 12.
- Voelchert, Litta L., Manitowoc, Wis. Bubble blower. No. 1,418,755; June 1.
- Voelker, Harry F., Yorklyn, Del. Expansion bolt. No. 1,435,434; Nov. 14.
- Voelker, John P. (See Flick, H., Voelker, and Dunn.)
- Voelker, Otto, Palmer, Kans. Packer and circular harrow. No. 1,414,842; May 2.
- Vogel, Floyd, Hackettstown, N. J. Cutter head and gauge. No. 1,420,068; June 20.
- Vogel, Frederick, Wyeth, Oreg. Track-lining jack. (Re-issue.) No. 15,484; Oct. 31.
- Vogel, Louis, Strasbourg, France. Influence electrical machine. No. 1,412,726; Apr. 11.
- Vogel, Otto, Dusseldorf-Oberkassel, Germany. Pickling metal. No. 1,433,579; Oct. 31.
- Vogel, William J., Pontiac, Mich. Manifold. No. 1,402,122; Jan. 3.
- Vogelsang, Max, assignor to Firm Voigt & Haefner Actien Gesellschaft, Frankfurt-on-the-Main, Germany. Electric switch. No. 1,417,957; May 30.
- Voges, August, Chicago, Ill. Preparing soap for use. No. 1,438,199; Dec. 12.
- Voglmaier, Maximilian, Vienna, Austria. Uncorking device. No. 1,431,998; Oct. 17.
- Vogt, Agnes, geb. Szubert, assignor to Galvanophoren-Werke (System Vogt) S. Szubert, Commandit-Gesellschaft, Berlin, Germany. Electric pocket lamp. No. 1,420,167; June 20.
- Vogt, Alma, St. Louis, Mo. Toy. No. 1,417,958; May 30.
- Vogt, August C., Los Angeles, Calif. Butt-inlet-cutting device. No. 1,417,481; May 23.
- Vogt Bros. & Squier Company. (See Vogt, Clarence, assignor.)
- Vogt, Charles, Chicago, Ill. Drink mixer. No. 1,402,813; Jan. 10.
- Vogt, Charles H., Philadelphia, Pa. Meat product and making the same. No. 1,408,914; Mar. 7.
- Vogt, Clarence, Wenonah, N. J., assignor to Vogt Bros. & Squier Company, Philadelphia, Pa. Foot-control pedal. No. 1,414,907; May 2.
- Vogt, Henric C., Copenhagen, Denmark, W. V. Boby, London, and S. D. Lancaster, Barksingside, England. Windmill. No. 1,417,000; May 23.
- Vogt, John D. (See Walker, O. H., and Vogt.)
- Vogt, John H., jr., Columbus, Ohio. Tube setting and spreading tool. No. 1,425,426; Aug. 8.
- Vogt, Louis F., Washington, assignor to Standard Chemical Company, Pittsburgh, Pa. Ore concentration. No. 1,429,550; Sept. 19.
- Vogt, William J. (See Livingston, Frederick H., assignor.)
- Vogtlandische Maschinenfabrik (vorm J. C. & H. Dietrich), Actiengesellschaft. (See Fallot, Alfred, assignor.)
- Vogtlandische Maschinen-Fabrik (vorm. T. C. & H. Dietrich) Actiengesellschaft. (See Fallot, Alfred, assignor.)
- Voight, Alger S., Joliet, Ill. Transmission band for automobiles. No. 1,417,870; May 30.
- Voight, George F., San Francisco, Calif., assignor to W. S. Burgess, Oak Park, Ill. Spring suspension for vehicles. No. 1,403,926; Jan. 17.
- Voight, George F., San Francisco, Calif., assignor to W. S. Burgess, Oak Park, Ill. Vehicle spring suspension. No. 1,412,585; Apr. 11.

Alphabetical list of patentees—Continued.

- Voigt, Henry G., New Haven, Conn. Locking device for tire carriers. No. 1,420,226; June 20.
- Voight, Henry G., New Haven, Conn. Adjustable door control. No. 1,434,171; Oct. 31.
- Voight, Henry G., assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,424,696; Aug. 1.
- Voight, Henry G., New Britain, assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,434,513; Nov. 7.
- Voigt, August. (See May, E., Jr., Bullen, and Voigt.)
- Voigt, Edmund, Chicago, Ill. Electrolysis suspension hook. No. 1,412,909; Apr. 18.
- Voigt, Max T., Reading, Pa., assignor to L. Frankel, New York, N. Y. Transmission apparatus. No. 1,431,198; Oct. 10.
- Voigt, Martin H., Leipzig-Lindenau, Germany. Arrangement for the production of water circulation in boilers. No. 1,439,278; Dec. 19.
- Voigt & Haefner Actien Gesellschaft. (See Vogelsang, Max, assignor.)
- Voigtman, Max W., St. Louis, Mo. Machine for affixing material to and embellishing book covers. No. 1,424,269; Aug. 1.
- Voisin, Gabriel, assignor to Societe Anonyme Des Aeroplanes G. Voisin, Paris, France. Hood for vehicles. No. 1,419,704; June 13.
- Vokel, George J. (See Quednow, F. F., and Vokel.)
- Voland, Emil L. (See Voland, George G. and E. L.)
- Voland, George G. and E. L., New Rochelle, N. Y. Scale. No. 1,433,436; Oct. 24.
- Volden, Henry, Portland, Oreg. Safety brake for motor-driven vehicles. No. 1,437,696; Dec. 5.
- Volis, Harry, Detroit, Mich. Gauge. No. 1,417,001; May 23.
- Volf, Matt A., Pickens, W. Va. Tire. No. 1,421,323; June 27.
- Volkman, Henry, Manchester, N. H. Hand truck. No. 1,416,427; May 16.
- Volkmer, Paul, Auckland, New Zealand. Sheet-straightening apparatus. No. 1,421,868; July 4.
- Völler, Karl, Düsseldorf, Germany. Gun. No. 1,413,076; Apr. 18.
- Völler, Karl, Düsseldorf, Germany. Guns firing at high elevations. No. 1,413,077; Apr. 18.
- Völler, Karl, and O. Grauheding, Düsseldorf, assignors to Rheinische Metallwaren-und Maschinenfabrik, Düsseldorf-Derendorf, Germany. Sighting device for guns. No. 1,413,207; Apr. 18.
- Vollegraaf, Arie. (See Sorenson, Sigvard, assignor.)
- Vollkommer, Theodore J., Pittsburgh, Pa. Recuperator. No. 1,402,325; Jan. 3.
- Vollmann, Walter, Berlin, Germany. Film-winding device. No. 1,417,474; May 23.
- Vollmer, C. J. (See Halsten, Charles A., assignor.)
- Vollmer, Charles D., and M. Laskowitz, St. Louis, Mo. Automobile alarm. No. 1,435,675; Nov. 14.
- Vollmer, Gustav C., St. Louis, Mo. Knife sharpener. No. 1,429,984; Sept. 26.
- Vollmer, Heinrich, Biberach, Germany. Cartridge-feeding device. No. 1,413,694; Apr. 25.
- Vollmer, John, Essen, Germany. Gun barrel built of an A-tube and a breech piece. No. 1,404,558; Jan. 24.
- Vollmer, John, Essen, Germany. Gun barrel with breech piece screwed on A-tubes. No. 1,427,137; Aug. 29.
- Vollmer, John, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gun barrel with a breech piece screwed on an A-tube. No. 1,412,151; Apr. 11.
- Volos Manufacture Limited. (See McGill, Daniel, assignor.)
- Voltrini, Riccardo, Waterbury, Conn. Shaving brush. No. 1,409,046; Mar. 7.
- Voltz Brothers. (See Voltz, Daniel W. and E. C., and Hammel, assignors.)
- Voltz, Daniel W. and E. C., and G. E. Hammel, assignors to Voltz Brothers, Chicago, Ill. Autotruck cab. No. 1,427,660; Aug. 29.
- Voltz, Edward C. (See Voltz, Daniel W. and E. C., and Hammel.)
- Volz, Ervin D., Cincinnati, Ohio. Convertible coaster. No. 1,409,501; Mar. 14.
- Von Allmen, Christian, Louisville, Ky. Jar top or closure. No. 1,437,029; Nov. 28.
- Von Arnheim, Douglas, Berlin, Germany. Boot or shoe provided with upper sections of differently-colored material. No. 1,413,508; Apr. 18.
- Von Bichowsky, Ford, Glendale, Calif. Production of compounds containing silicon and nitrogen. No. 1,415,280; May 9.
- Von Bichowsky, Ford, and J. Harthan, Glendale, Calif. Producing titanium nitrogen compounds. No. 1,408,661; Mar. 7.
- Von Bichowsky, Ford, and J. Harthan, Glendale, Calif. Producing cyanides. No. 1,417,702; May 30.
- Von Bramer, Harold, assignor to Eastman Kodak Company, Rochester, N. Y. Making hydrochinon. No. 1,421,869; July 4.
- Von Czerwony, Victor, Deutschlandsberg, and E. Blümel, St. Polten, Austria. Matchmaking machine. No. 1,419,999; June 20.
- Von Diezelski, Ernest L. B., New York, N. Y. Locking device for automobile-steering mechanisms. No. 1,421,870; July 4.
- Von Edelkrantz, William L., Mexico, Mexico. Resilient tire for automobiles and other vehicles. No. 1,413,078; Apr. 18.
- Von Emperger, Fritz E., Vienna, Austria. Compression member for structures. No. 1,412,096; Apr. 11.
- Von Faber, Oswald, The Hague, Netherlands. Obtaining iodine. No. 1,438,071; Dec. 5.
- Von Foregger, Richard, Roslyn, N. Y. Apparatus for administering anæsthetic gases. No. 1,433,104; Oct. 24.
- Von Fremery, Hermann, Schloss Spindlhof, near Regensburg, Germany. Ball bearing for the rudder surfaces of aircraft. No. 1,418,993; June 6.
- Vongehr, Kurt, Tilsit, Germany. Apparatus for collecting rain water for domestic and other purposes. No. 1,429,051; Sept. 12.
- Von Gruber, Otto, Munich, assignor to Firm of Carl Zeiss, Jena, Germany. Stereoisohypsograph. No. 1,435,961; Nov. 21.
- Von Herz, Edmund, Charlottenburg, Germany. Explosive. No. 1,402,693; Jan. 3.
- Von Krannichfeldt, Heinrich. (See Villiger, V., and von Krannichfeldt.)
- Von May, Leopold, Ung-Ostra, Czechoslovakia, assignor to C. A. Pesca & Sohn, Berlin-Lichtenberg, Germany. Centrifuge. No. 1,410,146; Mar. 21.
- Von Meyenburg, Konrad, Basel, Switzerland. Self-propelled agricultural implement for cultivating, mowing, grinding, and the like. No. 1,428,194; Sept. 5.
- Vonnegut, Anton. (See Eaglesfield, Robert D., assignor.)
- Vonnegut, Anton. (See Gathman, Monte B., assignor.)
- Vonnegut, Anton. (See Matthews, Glenn H., assignor.)
- Vonnegut, Anton, Indianapolis, Ind. Spindle adjustment for motor-driven molders. No. 1,436,465; Nov. 21.
- Von Orel, Eduard, and W. Sander, assignors to Firm of Carl Zeiss, Jena, Germany. Stereoisohypsograph. No. 1,436,220; Nov. 21.
- Von Osten, Frederick, assignor to S. S. von Osten, East Orange, N. J. Disintegrating machine. No. 1,425,920; Aug. 15.
- Von Osten, Sophie S. (See von Osten, Frederick, assignor.)
- Von Pazsiczky, Gedeon, Hamburg, Germany. Apparatus for the production of spun glass. No. 1,427,014; Aug. 22.
- Von Raczyński, Wldimir, Bismarckshöhe, near Lubasch, Germany. Hauling cable. No. 1,430,042; Sept. 26.
- Von Recklinghausen, Max, assignor to Air Reduction Company, New York, N. Y. Apparatus for separating gases. No. 1,403,723; Jan. 17.
- Von Roeder, Benno G., and E. C. Oates, Houston, Tex. Shock absorber. No. 1,437,371; Nov. 28.
- Vons, John, Lakewood, assignor of one-half to G. Johnson, Cleveland, Ohio. Bottle stopper. No. 1,437,572; Dec. 5.
- Von Sanden, Kurt, Kronshagen, near Kiel, and H. Techel, Kiel, assignors to Fried. Krupp Aktiengesellschaft Germaniaerft, Kiel-Gaarden, Germany. Submarine boat. No. 1,432,142; Oct. 17.
- Von Soden-Fraunhofen, Graf Alfred, Friedrichshafen, assignor to Firm Zahnradfabrik Aktiengesellschaft, Friedrichshafen-on-the-Bodensee, Germany. Control mechanism. No. 1,428,460; Sept. 5.
- Von Steiger, Robert, Rosenberg, Switzerland, assignor to the Firm of Gebrüder Bühler, Uzwil, Switzerland. Discharging device for kiln furnaces. No. 1,412,811; Apr. 11.
- Von Steiger, Robert, Rosenberg, Niederuzwil, assignor to Firm: Gebrüder Bühler, Uzwil, Switzerland. Press for the manufacture of goods made from paste, dough, and the like. No. 1,434,935; Nov. 7.
- Von Tautphoeus, Egon F., Munich, Germany. Amusement railway. No. 1,430,203; Sept. 26.
- Von Truppel, Oscar, Frohnau, near Berlin, Germany. Signaling means on submarine boats. No. 1,405,364; Jan. 31.
- Von Vargyas, Eugene, assignor, by mesne assignments, to F. W. Brown and A. Tweedale, Washington, D. C. Light screen. No. 1,410,229; Mar. 21.
- Von Wursterberger, Franz, Zurich, Switzerland. Method and device for the prevention of selective corrosion of metallic parts. No. 1,435,268; Nov. 14.
- Von Zeerleder, Alfred. (See Bauer, B., and von Zeerleder.)
- Von Zweigbergk, Thorsten, Lancaster, England. Transmission gear. No. 1,403,658; Jan. 17.
- Voorhees, Vanderveer. (See Rindfusz, R. E., and Voorhees.)
- Voorhees, Walter K., assignor to Standard Manufacturing Company, Cedar Falls, Iowa. Adjusting device for flexible gates. No. 1,428,067; Sept. 5.
- Vorce, Lafayette D., Windsor, Ontario, Canada. Method and apparatus for producing alkaline hypochlorites. No. 1,414,059; Apr. 25.
- Vordermark, George, Indianapolis, Ind. Resilient vehicle wheel. No. 1,420,393; June 20.
- Voress, Clyde L. (See Burrell, G. A., Oberfell, and Voress.)
- Voress, Clyde L., New York, N. Y., and V. C. Canter, Bradford, Pa., assignors to Gasoline Recovery Corporation. Volatilizing, distilling, or separating absorbed vapors. No. 1,420,613; June 20.

- Vorse, Blanchard B., Des Moines, Iowa, assignor to Western Silo Company, Limited. Silo and erecting silos. No. 1,418,216; May 30.
- Vörsmann, Karl, Brunn, Austria. Water-tube boiler. No. 1,423,372; July 18.
- Vorsteher, Paul, Barmen, Germany. Die for lacing tips. No. 1,411,461; Apr. 4.
- Vortex Mfg. Co., The. (See Holman, Rudolph, assignor.)
- Vortex Mfg. Co., The. (See Potts, Peter T., assignor.)
- Vosbrink, Richard, Oakland, assignor to Hall-Scott Motor Car Company, Incorporated, San Francisco, Calif. Traction power system. No. 1,409,625; Mar. 14.
- Voss, George C., Exira, Iowa. Brood-frame holder. No. 1,432,431; Oct. 17.
- Voss, Henry E., administrator. (See Burris, James N.) (Reissue.)
- Voss, John, Evansville, Ind. Door structure for display cabinets. No. 1,414,843; May 2.
- Voss, Samuel, Breslau, Germany, assignor, by mesne assignments, to S. Stern and F. Stern, New York, N. Y. Ring dowel for the connection of wood pieces. No. 1,409,320; Mar. 14.
- Voss, William, Wilmington, Del., assignor to American Car and Foundry Company, New York, N. Y. Knock-down passenger car. No. 1,432,223; Oct. 17.
- Voss, William H., Davenport, Iowa. Washing machine mechanism. No. 1,413,695; Apr. 25.
- Voss, William H., Davenport, Iowa. Washing machine. No. 1,438,149; Dec. 5.
- Voss, William H., Davenport, Iowa. Power-transmission mechanism. No. 1,438,150; Dec. 5.
- Vossbeck, Albert J., and J. McClusky, Bismarck, N. Dak. Draft appliance or hitch. No. 1,440,039; Dec. 26.
- Vossberg, Carl A., Toledo, Ohio. Toy furniture. No. 1,431,607; Oct. 10.
- Vosseler, Heinrich F. (See Harkness, B. G. A., and Vosseler.)
- Votaw, Ernest D., Kansas City, Mo. Change making and registering machine. No. 1,429,307; Sept. 19.
- Vote, Louis H., Munhall, Pa. Bottle capper. No. 1,410,278; Mar. 21.
- Vought, George D., Mount Union, Pa. Receptacle for barbers' equipment. No. 1,416,767; May 23.
- Vratil, Charles A., Pawnee Rock, Kans. Demountable rim. No. 1,414,844; May 2.
- Vredenburgh, Harry D., Brooklyn, N. Y. Bottle stopper. No. 1,424,862; Aug. 8.
- Vreeland, Frederick K., Montclair, N. J. Receiving system for radio telegraphy and telephony. No. 1,407,103; Feb. 21.
- Vreeland, George W. (See McGee, F. R., and Vreeland.)
- Vrooman, Harold E., South Jacksonville, Fla. Template. No. 1,406,117; Feb. 7.
- Vrooman, Herman V., Racine, Wis. Ash sifter for furnaces. No. 1,433,313; Oct. 24.
- Vuia, Trajan, Garches, assignor to C. Brediceanu, Paris, France. Flying machine. No. 1,423,636; July 25.
- Vuille, George, Shelby, Ohio. Hinge check. No. 1,423,784; July 25.
- Vulcan Motor Axle Corporation. (See Beechler, Roy G., assignor.)
- Vulcan Motor Devices Company. (See Stevens, William C., assignor.)
- Wabash Sanitary Company. (See Snideman, Clara J., assignor.)
- Wachman, Frank. (See Gonware, Daniel F., assignor.)
- Wachowitz, Walter J., assignor to Manitowoc Plating Works, Manitowoc, Wis. Machine for ironing milk cans. No. 1,420,506; June 20.
- Wachtel, Philipp, Frankfort-on-the-Main, Germany, assignor to Wilhelm Schmidding, a Firm of Kohn-Mannsfeld, German Republic. Arrangement for purifying and rendering odorless the exhaust gases of internal-combustion engines and the like. No. 1,402,814; Jan. 10.
- Wachtel, Philipp, Frankfort-on-the-Main, assignor to Wilhelm Schmidding, Kohn-Mannsfeld, Germany, a Firm. Arrangement for purifying and rendering odorless the exhaust gases of internal-combustion engines and the like. No. 1,415,418; May 9.
- Wächtler, Franz L., Grossenhain, Germany. Tool-grinding machine. No. 1,429,308; Sept. 19.
- Wacker, Dr. Alexander, für Electrochemische Industrie, G. m. b. H. (See Kauler, Felix, assignor.)
- Wacker, Frederick G., Chicago, Ill., assignor to Detroit Range Boiler & Steel Barrel Company, Detroit, Mich. Making hooped metallic receptacles. No. 1,419,705; June 13.
- Wackwitz, Ernest F., Arlington Heights, Mass. Spark-plug adapter. No. 1,402,552; Jan. 3.
- Wackwitz, Ernest F., Arlington Heights, Mass. Attachment for spark plugs. No. 1,417,871; May 30.
- Waddell, Frederick W. (See Mackie, J. A., and Waddell.)
- Waddell, George W., Syracuse, Ind. Golf-ball ejector. No. 1,402,026; Jan. 3.
- Waddell, John M., Alexandria, La. Dimmer. No. 1,422,393; July 11.
- Waddell, William A. (See Culver, A. V., and Waddell.)
- Waddy, George M., Buffalo, N. Y. Grain door. No. 1,429,985; Sept. 26.
- Wade, Charles N., Paterson, N. J. Ticket printing and delivery machine. No. 1,435,767; Nov. 14.
- Wade-Dalton, Cyril, Salem, N. J. Automobile radiator. No. 1,409,321; Mar. 14.
- Wade, George, Newark, N. J. Belt buckle. No. 1,426,794; Aug. 22.
- Wade, Harold. (See Sulman, H. L., Taplin, Perkins, and Picard, assignors.)
- Wade, Harry M., Clarksburg, assignor to The Cut-right Sharps Company, Buckhannon, W. Va. Background displaying device. No. 1,410,085; Mar. 21.
- Wade, Henry M., Frederick, Okla. Separator. No. 1,419,429; June 13.
- Wade, Marshal D. (See French, Sherman T., assignor.)
- Wade, Roy, Pocatello, Idaho. Heating apparatus. No. 1,410,431; Mar. 21.
- Wade, William E., Rockland, and T. H. Seely, Malden, Mass., assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Forming machine. No. 1,406,307; Feb. 14.
- Wade, William H. (See Duncan, William R., assignor.)
- Wade, William H., Chicago, Ill. Device for making phonograph records. No. 1,412,300; Apr. 11.
- Wademan, John, W. T., and W. Keighley, England. Doffing mechanism for spinning, twisting, and the like machines. No. 1,432,646; Oct. 17.
- Wademan, Tom. (See Wademan, John, W. T., and W.)
- Wademan, Walter. (See Wademan, John, W. T., and W.)
- Wademan, William. (See Wademan, John, W. T., and W.)
- Wadsworth Electric Manufacturing Company, The. (See Wadsworth, George B., assignor.)
- Wadsworth, Frank L. O. (See Kingsbury, A., and Wadsworth.)
- Wadsworth, Frank L. O., assignor to A. Kingsbury, Pittsburgh, Pa. Bearing. No. 1,419,782; June 13.
- Wadsworth, Frank L. O., Pittsburgh, Pa., assignor to Hughes Tool Company, Houston, Tex. Rotary boring drills. No. 1,404,915; Jan. 31.
- Wadsworth, Frank L. O., Pittsburgh, Pa., assignor to Hughes Tool Company, Houston, Tex. Rotary boring drill. No. 1,408,549; Mar. 7.
- Wadsworth, Frank L. O., Sewickley, Pa., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Machine for undercutting. No. 1,408,662; Mar. 7.
- Wadsworth, Frank L. O., Pittsburgh, Pa., assignor to Hughes Tool Company, Houston, Tex. Rotary boring drill. No. 1,417,363; May 23.
- Wadsworth, Frank L. O., assignor to A. Kingsbury, Pittsburgh, Pa. Bearing. No. 1,437,788; Dec. 5.
- Wadsworth, George B., assignor to The Wadsworth Electric Manufacturing Company, Covington, Ky. Fuse-mounting device. No. 1,402,123; Jan. 3.
- Wadsworth, George B., assignor to The Wadsworth Electric Manufacturing Company, Covington, Ky. Safety box for electric installation. No. 1,403,659; Jan. 17.
- Wadsworth, George W. (See Borgen, H., and Wadsworth.)
- Wadsworth, Henry L., Lexington, Mass., assignor to Metal Recording Disc Company, Inc., New York, N. Y. Recording sound records. No. 1,421,045; June 27.
- Wadsworth, Howard L., Cleveland, Ohio. Sand-mixing apparatus. No. 1,430,704; Oct. 3.
- Wadsworth, Howard L., Cleveland, Ohio. Sand-cutting machine. No. 1,432,812; Oct. 24.
- Wadsworth, Walter A., et al. (See Musebeck, George E., assignor.)
- Wagn, Adolf W., Brooklyn, assignor to Joseph H. Wallace & Co., New York, N. Y. Mechanical hoist. No. 1,419,181; June 13.
- Wafer, Francois E., Chicago, Ill. Chinner-tire remover and replacer. No. 1,414,908; May 2.
- Waffenfabrik Mauser, Aktiengesellschaft. (See Feederle, Fidel, assignor.)
- Waffenfabrik Mauser, A. G. (See Kissendorfer, Karl, assignor.)
- Waffenfabrik Mauser Aktiengesellschaft. (See Nickl, Josef, assignor.)
- Waffenschmidt, Walter, Karlsruhe, Germany. Device for indicating curves. No. 1,417,703; May 30.
- Wagaman, Samuel M., and E. H. Byer, Hagerstown, Md.; said Byer assignor to said Wagaman. Loose-leaf binder. No. 1,402,694; Jan. 3.
- Wagemaker, Isaac, Grand Rapids, Mich. Drawer slide. No. 1,410,629; Mar. 28.
- Wagemaker, Isaac, Grand Rapids, Mich. Card cutting and stacking machine. No. 1,415,210; May 9.
- Wagemaker, Isaac, Grand Rapids, Mich. Filing appliance. No. 1,430,043; Sept. 26.
- Wagemaker, Isaac, Grand Rapids, Mich. Filing tray. No. 1,435,351; Nov. 14.
- Wagenbach, Anton, Elberfeld, Germany. Shears especially for rolled iron. No. 1,430,705; Oct. 3.
- Wagenhorst, James H., Jackson, Mich. Metal wheel. No. 1,423,373; July 18.
- Wagenhorst, James H., Jackson, Mich. Rheostat for electric lamps. No. 1,434,172; Oct. 31.
- Wagenhorst, James H., Akron, Ohio. Wheel and demountable rim therefor. No. 1,435,269; Nov. 14.
- Wagenseil, Ludwig, assignor to H. Junkers, Dessau, Germany. Arrangement of radiators in flying machines. No. 1,412,073; Apr. 11.
- Wagenseller, George R., Omaha, Nebr. Mail box. No. 1,435,676; Nov. 14.
- Waggett, Frederick W., Forest Gate, England. Metal pianoforte action. No. 1,411,820; Apr. 4.
- Waggoner, Chauncey W. (See Peacock, Samuel, assignor.)

Alphabetical list of patentees—Continued.

- Waggoner, Claude M., assignor of one-half to I. B. Potter, Riverside, Calif. Stepladder. No. 1,415,739; May 9.
- Wagner, Alber V. (See Hirschl, H., and Wagner.)
- Wagner, Albert J. (See Williams, R. A., and Wagner.)
- Wagner, Alfred D., Eureka, Kans. Corn-husking hook. No. 1,422,906; July 18.
- Wagner, Augusta H., et al., administrators. (See Wagner, John.)
- Wagner, Bernard P., assignor to The Wagner Manufacturing Company, Sidney, Ohio. Cover for culinary and like vessels. No. 1,409,262; Mar. 14.
- Wagner, Christian A., Fort Plain, N. Y. Tire. No. 1,424,223; Aug. 1.
- Wagner, Christian H., Tiffin, Ohio. Tool. No. 1,421,871; July 4.
- Wagner, Clarence W., Brantford, Ontario, Canada. Table baseball. No. 1,406,308; Feb. 14.
- Wagner, Cleaver W., Danville, Pa. Bottle cap. No. 1,402,124; Jan. 3.
- Wagner, Clinton D., Cedar Rapids, Iowa. Sheet-metal shears. No. 1,410,972; Mar. 28.
- Wagner, Constantin, jr., and G. P. Schmidt, New York, N. Y.; said Schmidt assignor to said Wagner. Measuring apparatus. No. 1,424,429; Aug. 1.
- Wagner Electric Manufacturing Company. (See Evans, George B., assignor.)
- Wagner Electric Manufacturing Company. (See Fynn, Valère A., assignor.)
- Wagner Electric Manufacturing Company. (See Weichsel, Hans, assignor.)
- Wagner, Ernest A., Gardiner, Me. Foot covering. No. 1,438,072; Dec. 5.
- Wagner, Errett B., Pittsburgh, Pa. Toy. No. 1,411,944; Apr. 4.
- Wagner, Francis M., and J. H. Matthews, Pittsburgh, Pa. Mounting for sheet-metal signboards and the like. No. 1,431,199; Oct. 10.
- Wagner, Fred W., Pittsburgh, Pa. Purification of waste liquid. No. 1,428,618; Sept. 12.
- Wagner, Fritz. (See Brown, R. P., and Wagner.)
- Wagner, Harry, St. Louis, Mo. Stove. No. 1,431,494; Oct. 10.
- Wagner, Harry F., assignor of one-half to L. M. Hulse, Middletown, N. Y. Luminous dobber. No. 1,437,284; Nov. 28.
- Wagner, Henry F., and S. G. Neeb, Milwaukee, Wis. Illuminated license plate. No. 1,433,314; Oct. 24.
- Wagner, Herbert H., et al., administrators. (See Wagner, John.)
- Wagner, Herbert H., Rochester, N. Y. Pasteboard box and wrapper. No. 1,420,000; June 20.
- Wagner, James, jr., Cleveland, Ohio. Metal cutting tool. No. 1,430,604; Oct. 3.
- Wagner, James P., Selby, S. Dak. Surfacing device. No. 1,437,925; Dec. 5.
- Wagner, John, deceased, by A. H. Wagner and H. H. Wagner, administrators, Rochester, N. Y. Folding pasteboard box. No. 1,420,001; June 20.
- Wagner, John O., Chicago, Ill. Interlocking adjustable frame shoe. No. 1,435,270; Nov. 14.
- Wagner, Joseph F., assignor to The Dunham Company, Berea, Ohio. Soil-pulverizing implement. No. 1,420,351; June 20.
- Wagner, Leslie A., Los Angeles, Calif., assignor of one-fifth to F. H. Vercoe, Los Angeles, one-fifth to C. Denmun, Santa Maria, and two-fifths to S. W. Root, and one-tenth to C. A. Kurfess, Los Angeles, and one-tenth to J. A. Maronde, Monterey Park, Calif. Drying machine. No. 1,410,230; Mar. 21.
- Wagner, Mangold, Seattle, Wash. Velocipede propelling mechanism. No. 1,420,394; June 20.
- Wagner, Mangold, Seattle, Wash. Combined propelling and steering mechanism for velocipedes. No. 1,420,791; June 27.
- Wagner Manufacturing Company, The. (See Wagner, Bernard P., assignor.)
- Wagner, Max, Chicago, Ill. Clutch pedal control for automobiles. No. 1,418,340; June 6.
- Wagner, Paul A., Jersey City, N. J. Heddle for looms. No. 1,413,949; Apr. 25.
- Wagner, Paul A., Jersey City, N. J. Reed for looms. No. 1,413,950; Apr. 25.
- Wagner, Paul G. (See Post, C. E., and Wagner.) (Re-issue.)
- Wagner, Rudolf, Hamburg, Germany. Suspended high-speed railway. No. 1,422,394; July 11.
- Wagner, Theodore B., Brooklyn, N. Y. Yeast and making the same. No. 1,434,462; Nov. 7.
- Wagner, William F., Wilmington, N. C. Liquid dispenser. No. 1,404,670; Jan. 24.
- Wagner, William F., Washington, D. C. Suit hanger. No. 1,416,143; May 16.
- Wagstaff, Andrew L., assignor to W. F. Traves, Kansas City, Mo. Case and fastener therefor. No. 1,436,836; Nov. 28.
- Wagstaff, Andrew L., Kansas City, Mo., assignor, by mesne assignments, to G. F. Boswell, Montgomery County, Kans. Knockdown bottle case. No. 1,439,929; Dec. 26.
- Wagstaff, Richard A., Salt Lake City, Utah, assignor to American Smelting and Refining Company, New York, N. Y. Apparatus and method of distributing pulverized coal in blast-furnace work. No. 1,411,072; Mar. 28.
- Wagstaff, Richard A., Salt Lake City, Utah, assignor to American Smelting and Refining Company, New York, N. Y. Blast-furnace tuyère cap for pulverized coal. No. 1,415,910; May 16.
- Wahl, Charles. (See Touchais, P., and Wahl.)
- Wahl Company, The. (See Hill, Ernest E., assignor.)
- Wahl Company, The. (See Poole, Arthur F., assignor.)
- Wahl Company, The. (See Wahl, J. C., and Jacobson, assignors.)
- Wahl Company. (See Wahl, John C., assignor.)
- Wahl-Henius Institute. (See Stahl, Max, assignor.)
- Wahl-Henius Research Laboratory, The. (See Stahl, Max, assignor.)
- Wahl, John C., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Chasing machine. No. 1,415,211; May 9.
- Wahl, John C., Chicago, Ill., assignor to Remington Accounting Machine Corporation, New York, N. Y. Calculating machine. No. 1,418,110; May 30.
- Wahl, John C., Chicago, Ill., assignor to Remington Accounting Machine Corporation, New York, N. Y. Calculating machine. No. 1,418,111; May 30.
- Wahl, John C., and P. G. Jacobson, assignors to The Wahl Company, Chicago, Ill. Metal box. No. 1,428,195; Sept. 5.
- Wahl, Robert, Evanston, Ill. Malted food and producing the same. No. 1,410,973; Mar. 28.
- Wahlberg, Nils J. A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator. No. 1,404,814; Jan. 31.
- Wahlberg, Nils J. A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Handle device for switches. No. 1,406,309; Feb. 14.
- Wahlberg, Nils J. A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley-conductor clamp. No. 1,408,048; Feb. 28.
- Wahlberg, Nils J. A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Section switch. No. 1,410,974; Mar. 28.
- Wahlen, Henry A., Racine, Wis. Jig used in the manufacture of piano plates. No. 1,440,040; Dec. 26.
- Wahlert, Henry A., St. Louis, and J. E. Redford, Kinlock Park, assignors to The American Brake Company, St. Louis, Mo. Automatic slack adjuster. No. 1,422,499; July 11.
- Wahlgren, Roy M., Omaha, Nebr., and E. J. R. Beatty, Providence, R. I., assignors to Riggs Optical Company, Omaha, Nebr. Lens-testing device. No. 1,406,118; Feb. 7.
- Vaid, Calvin R., Birmingham, Ala. Self-opening traveling bag. No. 1,413,079; Apr. 18.
- Vaidelich, John F., Jackson, and T. F. Whelan, Holland, Mich. Wear plate. No. 1,426,795; Aug. 22.
- Vainford, Richard H., and C. H. Darling, Trenton, N. J. Apparatus for the manufacture of pottery ware. No. 1,408,663; Mar. 7.
- Waisman, Abraham, St. Louis, Mo. Chalk sharpener. No. 1,413,080; Apr. 18.
- Wait, Henry H., Chicago, Ill., assignor to Midwest Engine Company, Indianapolis, Ind. Lubrication for steam turbines. No. 1,419,706; June 13.
- Wait, Thaddeus S. (See Henry, James A., assignor.)
- Wait, Thaddeus S., assignor of one-half to J. A. Henry, Sturgis, Mich. Curtain fixture. No. 1,402,815; Jan. 10.
- Waite, John, Pittsburgh, Pa., assignor of one-half to F. Lasevicius, Laporte, Ind. Lathe attachment. No. 1,421,324; June 27.
- Waite, John, Pittsburgh, Pa., assignor of one-half to F. Lasevicius, Laporte, Ind. Window-closing lock. No. 1,438,006; Dec. 5.
- Waite, Albert E. (See Harris, H. S., Waite, and McCormick.)
- Waite, Charles F., Boston, Mass. Toy or game. No. 1,436,221; Nov. 21.
- Waite, Frank H., Long Island City, N. Y. Furnace arch. No. 1,436,923; Nov. 28.
- Waite, Harry F., New York, N. Y. Plate holder and indicator therefor. No. 1,404,171; Jan. 17.
- Waite, Harry F., New York, N. Y. Film holder for developing films. No. 1,413,208; Apr. 18.
- Waite, Harry F., New York, N. Y. Vertical fluoroscopic unit. No. 1,420,395; June 20.
- Waite, Harry F., New York, N. Y. Identification device. No. 1,438,508; Dec. 12.
- Waite, Lorenzo E., assignor to The Toledo Milling Machine Company, Toledo, Ohio. Bearing. No. 1,426,130; Aug. 15.
- Waite, Lyman M. (See Loomis, F. C., and Waite.)
- Waite, Lyman M., and F. C. Loomis, Fitchburg, Mass., assignors to P-W-V Automatic Machine Corporation. Finishing tool for screw machines. No. 1,412,431; Apr. 11.
- Waits, Spencer C., Pine Bluff, Ark. Safety crank for internal-combustion motors. No. 1,421,624; July 4.
- Waitz, Henry F., New York, N. Y. Nonsinkable vessel. No. 1,428,461; Sept. 5.
- Wake, Charles H., Los Angeles, Calif. Tooth cleaning and polishing bur. No. 1,427,503; Aug. 29.

- Wakefield, C. C., & Company, Limited. (See Bliss, John, assignor.)
- Wakefield, Clarence E. (See Oliver, J. F., and Fleming, assignors.)
- Wakefield, Clarence E. (See Oliver, Joseph F., assignor.)
- Wakefield, F. W., Brass Co., The. (See Wakefield, Frederick W., assignor.)
- Wakefield, Frank T., Pittsburgh, Pa. Game apparatus. No. 1,418,409; June 6.
- Wakefield, Frederick W., assignor to The F. W. Wakefield Brass Co., Vermillion, Ohio. Flash lamp. No. 1,408,664; Mar. 7.
- Wakefield, William L., Canton, Ohio. Brickmaking machine and process. No. 1,408,550; Mar. 7.
- Wakeham, Gertrude W., Marshall, Wis. Rack. No. 1,407,607; Feb. 21.
- Wakeham, Gertrude W., Marshall, Wis. Game. No. 1,433,437; Oct. 24.
- Waksman, Selman A., New York, N. Y. Treating silk fibers. No. 1,432,312; Oct. 17.
- Walby Storage Battery and Plate Manufacturing Company, The. (See Price, Charles S., assignor.)
- Walcher, Alfred. (See Lamont, J. A., and Walcher.)
- Walcott, Inez M. (See Fraser, Lester C., assignor.)
- Wald, George, Washington, D. C. Photographic apparatus. No. 1,405,080; Jan. 31.
- Walden, Cecil J., Los Angeles, Calif. Separating skins from vegetables and fruits. No. 1,438,467; Dec. 12.
- Walden, Frederick E., Worcester, Mass. Wrench. No. 1,432,813; Oct. 24.
- Walden, Frederick E., Worcester, assignor, by mesne assignments, to Walden-Stax Manufacturing Co., Stoneham, Mass. Wrench. No. 1,437,458; Dec. 5.
- Walden, J. F. (See Brown, Robert J., assignor.)
- Walden-Stax Manufacturing Co. (See Walden, Frederick E., assignor.)
- Walden-Worcester, Inc. (See Carlberg, August E., assignor.)
- Waldenfels, Fred G. (See Turner, Charles A., assignor.)
- Walder & Co. (See Peyer, Emil, assignor.)
- Waldes, Jindrich, Prague, Bohemia. Safety-pin card or package. No. 1,417,589; May 30.
- Waldheim, John, Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,403,361; Jan. 10.
- Waldheim, John, Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,416,428; May 16.
- Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,419,182; June 13.
- Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,425,921; Aug. 15.
- Waldheim, John, Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,433,761; Oct. 31.
- Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,433,920; Oct. 31.
- Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,440,118; Dec. 26.
- Waldman, Joseph. (now by judicial change of name Joseph Walker.) New York, N. Y., assignor to Walker Playerette Co., Inc. Automatic electrical percussion musical instrument. No. 1,413,638; Apr. 25.
- Waldmann, Ernö, and S. Hokky, Budapest, Hungary, assignors, by mesne assignments, to C. Heitler and E. Waldmann, Chicago, Ill. Stove and furnace. No. 1,426,674; Aug. 22.
- Waldmann, Eugene, et al. (See Waldmann, E., and Hokky, assignors.)
- Waldner, Helma T., Middletown, Conn. Drip cup for food cutters. No. 1,426,025; Aug. 15.
- Waldo Brothers, Incorporated. (See Waldo, Charles S., assignor.)
- Waldo, Charles S., Brookline, assignor to Waldo Brothers, Incorporated, Boston, Mass. Composite heat insulation for piping. No. 1,439,653; Dec. 19.
- Waldon, Sidney D. (See Sherbondy, Earl H., assignor.)
- Waldon, Sidney D., assignor to Packard Motor Car Company, Detroit, Mich. Carburetor. No. 1,418,756; June 6.
- Waldorf Paper Products Company. (See Gamm, Charles C., assignor.)
- Walder, Grant. (See Romans, Edgar D., assignor.)
- Waldroff, William H., Minneapolis, Minn. Tire tool. No. 1,420,792; June 27.
- Waldron, Frederic B., Prescott, assignor to Pilkington Brothers Limited, St. Helens, England. Apparatus for holding and lifting by means of suckers. No. 1,426,692; Aug. 22.
- Waldron, Frederic B., Prescott, assignor to Pilkington Brothers Limited, St. Helens, England. Pneumatic load-engaging means. No. 1,426,930; Aug. 22.
- Waldron, Horace S., Savannah, Ga. Device for applying piston rings. No. 1,420,507; June 20.
- Waldron, John C., Brooklyn, N. Y. Connected driving box. No. 1,415,419; May 9.
- Waldvogel, Karl O. (See Lamb, C. G., and Waldvogel.)
- Wale, Alfred E., Coleshill, assignor to A. E. Harris, Leamington, and E. H. Jones, Islington, London, England. Tire cover and the like. No. 1,415,281; May 9.
- Walcn, Ernest D., Gloucester, Mass. Airplane wing. No. 1,409,982; Mar. 21.
- Wales Adding Machine Company. (See Emley, Earl T., assignor.)
- Wales Adding Machine Company. (See Pentecost, A., and Fisher, assignors.)
- Wales Adding Machine Company. (See Pentecost, Arthur, assignor.)
- Wales Adding Machine Company. (See Smith, Angus N., assignor.)
- Wales, Alfred B., Whitman, assignor to L. Muther, Newton, Mass. Folding and strip-attaching mechanism. No. 1,416,810; May 16.
- Wales Company, The. (See Wales, Nathaniel B., assignor.)
- Wales, Nathaniel B., Boston, Mass., assignor to The Wales Company, Kalamazoo, Mich. Thermostatic pilot-light control. No. 1,418,994; June 6.
- Wales, Nathaniel B., Boston, Mass., assignor to The Wales Company, Kalamazoo, Mich. Automatic gas-burning-heating system. No. 1,419,116; June 6.
- Wales, Nathaniel B., Kalamazoo, assignor to Furnace Fan Corporation, Niles, Mich. Automatic fan system for hot-air furnaces. No. 1,424,958; Aug. 8.
- Wales, Rowland T., New Rochelle, N. Y. Air cell for concreting. No. 1,403,212; Jan. 10.
- Wales, Rowland T., Seward, N. J. Constructing acid-proof tank linings. No. 1,433,315; Oct. 24.
- Walicki, Ludwig, and C. Bober, New Britain, Conn. Umbrella-handle lighting device. No. 1,427,138; Aug. 29.
- Waline, Arthur H., and T. M. Roberts, Chicago, Ill. Radiator cap. No. 1,402,125; Jan. 3.
- Walk, Jasper J., Oakland, Calif. Vehicle mounting and drive. No. 1,436,373; Nov. 21.
- Walker, Alan C. (See Bilget, W. A., and Walker.)
- Walker Brothers Company, The. (See Walker, Willard R., assignor.)
- Walker Brothers (Wigan) Limited. (See Walker, Edwin R., assignor.)
- Walker, Charles G., Highland Park, Mich. Base for heaters or the like. No. 1,416,916; May 23.
- Walker, Charles I., San Francisco, Calif. Roof structure. No. 1,426,832; Aug. 22.
- Walker, Charles I., Los Angeles, Calif. Door-locking mechanism. No. 1,438,730; Dec. 12.
- Walker, Charles J. (See Marr, Frank S., assignor.)
- Walker, Charles W., Conway, N. H. Curtain-rod bracket. No. 1,400,665; Mar. 7.
- Walker, Cyrus M., Kansas City, Mo. Cuff. No. 1,419,332; June 13.
- Walker, Cyrus M., Kansas City, Mo. Underwear garment. No. 1,425,726; Aug. 15.
- Walker, David D. (See Aikens, Thomas N., assignor.)
- Walker, David D., Grandview, Idaho. Strainer. No. 1,427,565; Aug. 29.
- Walker, Don C., and B. Weeks, Memphis, Tenn. Key-control telephone switch. No. 1,424,863; Aug. 8.
- Walker, Edwin R., assignor to Walker Brothers (Wigan) Limited, Wigan, England. Motor tip wagon. No. 1,422,500; July 11.
- Walker, Emery L., Milwaukee, Wis. Sealing machine. No. 1,410,279; Mar. 21.
- Walker, Emery L., Milwaukee, Wis. Sealing machine. No. 1,410,352; Mar. 21.
- Walker, Fred, Rhodes, Iowa. Automatic door-operating mechanism. No. 1,403,927; Jan. 17.
- Walker, Fred, Marshalltown, Iowa. Portable farm derrick. No. 1,434,463; Nov. 7.
- Walker, Fred G., assignor to Jones Superior Machine Company, Chicago, Ill. Meat cutter. No. 1,427,661; Aug. 29.
- Walker, George R., assignor, by mesne assignments, to Walker Vehicle Company, Chicago, Ill. Driving mechanism. No. 1,420,793; June 27.
- Walker, Gilbert S., Pittsburgh, Pa. Automatic water heater. No. 1,404,249; Jan. 24.
- Walker, Harry A., San Antonio, Tex. Combined tire gauge and engine compression gauge. No. 1,438,798; Dec. 12.
- Walker, Henry B., Lancaster, Ohio. Chain attachment for elevator buckets. No. 1,422,151; July 11.
- Walker, Henry C. (See Kampfe, Otto, assignor.)
- Walker, Henry C., St. Louis, Mo. Magazine pencil. No. 1,408,551; Mar. 7.
- Walker, Herbert, Toronto, Ontario, Canada. Spark plug. No. 1,410,786; Mar. 28.
- Walker, Herbert E., Chicago, Ill. Connector for storage batteries. No. 1,421,355; June 27.
- Walker, Herbert E., Chicago, Ill. Storage-battery clip. No. 1,439,457; Dec. 19.
- Walker, Hugh D., assignor to Metal Craft Company, Limited, Grimsby, Canada. Bedrail connection. No. 1,439,930; Dec. 26.
- Walker, James A., Lafollette, Tenn. Rail tie plate. No. 1,420,468; June 20.
- Walker, James E., Hecla, S. Dak. Adjustable foot rest for shoe-shining stands. No. 1,424,959; Aug. 8.
- Walker, James L., Union, Utah. Fish screen. No. 1,420,508; June 20.
- Walker, James W., Struthers, Ohio. Luting machine. No. 1,435,352; Nov. 14.

Alphabetical list of patentees—Continued.

- Walker, John B., Minerva, Ohio. Tractor-wheel weight. No. 1,423,054; July 18.
- Walker, Joseph L., assignor to K-D Barrel and Hamper Co., Baton Rouge, La. Barrel or drum construction. No. 1,430,419; Sept. 26.
- Walker, Joseph L., assignor to K-D Barrel and Hamper Co., Baton Rouge, La. Veneer drum or the like. No. 1,430,420; Sept. 26.
- Walker, Joseph L., assignor to K-D Barrel and Hamper Co., Baton Rouge, La. Barrel-forming machine. No. 1,437,573; Dec. 5.
- Walker, Joseph L., assignor to K-D Barrel and Hamper Co., Baton Rouge, La. Shipping case. No. 1,437,574; Dec. 5.
- Walker, Joseph L., assignor to K-D Barrel and Hamper Co., Baton Rouge, La. Barrel-making machine. No. 1,437,575; Dec. 5.
- Walker, Leon A., Newark, N. J. Driving belt. No. 1,426,796; Aug. 22.
- Walker, Lewes D., Sacramento, Calif. Overtire. No. 1,429,659; Sept. 19.
- Walker, Luther G. (See Rickard, W. H., and Walker.)
- Walker Manufacturing Company. (See Mizer, J. J., and Jakob, assignors.)
- Walker Manufacturing Company. (See Mizer, Joseph J., assignor.)
- Walker, Noah, Philadelphia, Pa. Wiping mechanism. No. 1,407,104; Feb. 21.
- Walker, Otis H., and J. D. Vogt, Chattanooga, Tenn. Fan pulley. No. 1,432,581; Oct. 17.
- Walker, Paul, assignor to Chicago Carton Company, Chicago, Ill. Folding paper box. No. 1,411,678; Apr. 4.
- Walker, Percy H. D., assignor to The Charles Parker Company, Meriden, Conn. Vise slide. No. 1,421,112; June 27.
- Walker, Platt B., Jr., St. Paul, Minn. Mold core for monolithic concrete walls. No. 1,403,823; Jan. 17.
- Walker Playerette Co. (See Waldman, Joseph, now by judicial change of name Joseph Walker, assignor.)
- Walker, Quincy A., Charleston, W. Va. Device for deflating inner tubes. No. 1,438,509; Dec. 12.
- Walker, Raymond R., Follansbee, W. Va. Bottle washer. No. 1,408,848; Mar. 7.
- Walker, Russell T., Chicago, Ill. Rectifier. No. 1,407,363; Feb. 21.
- Walker, Sherlock L. (See Leatherman, R. L., and Walker.)
- Walker, Thatcher W., Colgate, assignor to The Bartlett Hayward Company, Baltimore, Md. Firing device for projectiles. No. 1,434,173; Oct. 31.
- Walker, Thomas E., assignor to Crittal Casement Window Co., Detroit, Mich. Window construction. No. 1,428,068; Sept. 5.
- Walker, Thomas F., Fruitville, Fla. Reel for barbed wire. No. 1,404,672; Jan. 24.
- Walker, U. G. (See Green, Arch B., assignor.)
- Walker Vehicle Company. (See Walker, George R., assignor.)
- Walker, Viola K., administratrix. (See McGahan, Frederick L.)
- Walker, Willard R., assignor to The Walker Brothers Company, Syracuse, N. Y. Clothes-washing machine. No. 1,402,196; Jan. 3.
- Walker, Willard R., assignor to The Walker Brothers Company, Syracuse, N. Y. Shaft coupling. No. 1,417,432; May 23.
- Walker, Willard R., assignor to The Walker Brothers Company, Syracuse, N. Y. Culinary basket for dish-washing machines. No. 1,426,931; Aug. 22.
- Walker, Willard R., assignor to Walker Brothers Company, Syracuse, N. Y. Clothes-washing machine. No. 1,437,163; Nov. 28.
- Walker, William, Royal, Iowa. Curtain light. No. 1,436,126; Nov. 21.
- Walker, William B., New York, and C. R. H. Visscher, Brooklyn, assignors to American Thermos Bottle Company, New York, N. Y. Vacuum vessel. No. 1,421,325; June 27.
- Walker, William H. (See Pritchett, W. L., and Walker.)
- Walker, William L., New York, N. Y. Shock absorber. No. 1,417,002; May 23.
- Walker, William L., New York, N. Y. Sound-receiving apparatus. No. 1,417,786; May 30.
- Walker, William L., New York, N. Y. Vault light. No. 1,418,341; June 6.
- Walker, William L., New York, N. Y. Golf tee. No. 1,436,222; Nov. 21.
- Wall, Arthur W., Sheldon, near Birmingham, England. Casing of internal-combustion engines. No. 1,402,695; Jan. 3.
- Wall, David M., Providence, R. I. Blade pendant. No. 1,417,872; May 30.
- Wall, Patrick, Pittsburgh, Pa. Can or receptacle. No. 1,407,903; Feb. 28.
- Wall, Willie F., San Francisco, Calif. Expansion counter-boring bit for wood. No. 1,415,740; May 9.
- Wall, Willie F., Bay Shore, Calif. Automatic hose coupling. No. 1,417,433; May 23.
- Wall, Willie F., Watsonville, Calif. Combined expansion and counterboring bit. No. 1,425,300; Aug. 8.
- Wallace, Albert J., Algonac, Mich. Receptacle cover. No. 1,418,498; June 6.
- Wallace, Allen, Moorestown, N. J., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Electric locomotive. No. 1,411,142; Mar. 28.
- Wallace, Anne R., Tyrone, Pa. Protective light armor. No. 1,418,995; June 6.
- Wallace, Charles R., Westfield, and J. C. Baker, Ridgefield Park, assignors to Wallace & Tiernan Co., Inc., Belleville, N. J. Manufacturing hypochlorite solutions. No. 1,403,993; Jan. 17.
- Wallace, David. (See Friedman, L., and Wallace.)
- Wallace, David A., Waterloo, Iowa. Drill-grinding machine. No. 1,417,364; May 23.
- Wallace, Frank W., Chattanooga, Tenn. Track oiler. No. 1,436,837; Nov. 28.
- Wallace, Frederick, Eden, N. Y. Tongue-supporting means for wagons. No. 1,405,365; Jan. 31.
- Wallace, George, assignor of one-half to H. Bolton, Sheffield, England. Welded joint for tramways and light railways. No. 1,420,614; June 20.
- Wallace, George H., Cambridge, Mass. Attachment for band saws. No. 1,426,932; Aug. 22.
- Wallace, George P. (See Layton, J. L., and Wallace.)
- Wallace, Halbert C., Kansas City, Mo. Pulley. No. 1,432,814; Oct. 24.
- Wallace, Harry E., Chicago, Ill. Current regulator for automobile headlight circuits. No. 1,410,975; Mar. 28.
- Wallace, Harry J., Clarksburg, W. Va. Drain board. No. 1,405,881; Feb. 7.
- Wallace Institute. (See Rogerson, Wallace M., assignor.)
- Wallace, J. D., & Co. (See Wallace, John D., assignor.)
- Wallace, John B., Mukwonago, Wis. Tire. No. 1,409,263; Mar. 14.
- Wallace, John B., Mukwonago, Wis. Attachment for plows. No. 1,418,410; June 6.
- Wallace, John D., assignor to J. D. Wallace & Co., Chicago, Ill. Band-saw guide. No. 1,435,997; Nov. 21.
- Wallace, Joseph H., & Co. (See Waern, Adolph W., assignor.)
- Wallace, Leonard E., Pine Bluff, Ark. Locking device. No. 1,434,031; Oct. 31.
- Wallace, Perry C., Montgomery, Ala. Hinge. No. 1,404,498; Jan. 24.
- Wallace, R., & Sons Mfg. Co. (See Wilkes, Samuel G., assignor.)
- Wallace, Thomas, New York, N. Y. Photographic camera. No. 1,430,478; Sept. 26.
- Wallace, William A., Johnston City, Ill. Oil burner. No. 1,430,044; Sept. 26.
- Wallace, William W., assignor to R. C. Penfield, Chicago, Ill. Transfer car. No. 1,416,589; May 16.
- Wallace and Brooks, Incorporated. (See Reynolds, Kenyon L., assignor.)
- Wallace & Tiernan Co. (See Wallace, C. F., and Baker, assignors.)
- Wallace & Tiernan Co. Inc. (See Baker, John C., assignor.)
- Wallbillich, Anthony F. (See Caracristi, V. Z., and Wallbillich.)
- Wallem, Axel B., Cynwyd, Pa., assignor, by mesne assignments, to H. S. B. W. Cochrane Corporation, Philadelphia, Pa. Feed-water heater. No. 1,438,200; Dec. 12.
- Wallender, W. A. (See Ullman, Aubrey M., assignor.)
- Wallendorf, Charles R., Brooklyn, N. Y. Thermometer case. No. 1,417,365; May 23.
- Wallene, Frank O., Lakewood, Ohio. Hydraulic apparatus. No. 1,411,945; Apr. 4.
- Wallensak Optical Company. (See Wallensak, A., and Pirwitz, assignors.)
- Wallenstein, Leo, Brooklyn, N. Y. Stencil. No. 1,413,246; Apr. 18.
- Wallenstein, Ralph, Providence, R. I. Coin holder. No. 1,414,845; May 2.
- Waller, Algot E., West Hartford, assignor to The Skayef Ball Bearing Company, Hartford, Conn. Flying chuck. No. 1,420,794; June 27.
- Waller, Anthony E., Edgewood, R. I. Joint for pin tongues. No. 1,403,276; Jan. 10.
- Waller, Carl R., assignor to De Laval Steam Turbine Company, Trenton, N. J. Governing means for marine turbines. No. 1,408,049; Feb. 28.
- Waller, Carl R., assignor to De Laval Steam Turbine Company, Trenton, N. J. Diaphragm for steam turbines. No. 1,427,179; Aug. 29.
- Waller, Charles W., Chicago, Ill. Means for electrically propelling and communicating with aerial vehicles and marine vessels. No. 1,421,326; June 27.
- Waller, Henry H., Harrogate, England. Fiber-treating machine. No. 1,407,364; Feb. 21.
- Waller, John A., Highland Park, Ill. Expanded wood lath. No. 1,427,246; Aug. 29.
- Waller, John A., Highwood, Ill. Crate and box. No. 1,436,066; Nov. 21.
- Waller, Lee R., Westmount, Quebec, Canada, assignor to Western Electric Company, Incorporated, New York, N. Y. Switching device. No. 1,413,639; Apr. 25.
- Waller, Robert H., and G. Jackson, assignors to Quicksafe Manufacturing Company, Nashville, Tenn. Can opener. No. 1,424,960; Aug. 8.
- Wallick, George, Mount Vernon, Iowa. Rotatable pump for cooling systems of automobiles. No. 1,433,762; Oct. 31.

- Wallin, Gustaf A., Flushing, assignor to A. Kimball Company, New York, N. Y. Marking ticket. No. 1,431,495; Oct. 10.
- Wallin, Harry W., Des Moines, Iowa. Gauging wrench. No. 1,410,432; Mar. 21.
- Wallinder, Erick G., Duluth, Minn. Railway rail joint. No. 1,411,317; Apr. 4.
- Wallinder, Erick G., Duluth, Minn. Railway-rail anti-creeping device. No. 1,411,318; Apr. 4.
- Wallinder, Erick G., Duluth, Minn. Railway tie and brace plate. No. 1,411,319; Apr. 4.
- Wallinder, Erick G., Duluth, Minn. Table. No. 1,439,986; Dec. 26.
- Walling, Archie L., Akron, Ohio. Washing-machine agitator. No. 1,428,822; Sept. 12.
- Walling, John P. (See Nichols, George T., assignor.)
- Wallis, Frank E., Philadelphia, Pa. Circuit closer for indicating devices. No. 1,402,696; Jan. 3.
- Wallis, James T., Altoona, Pa. Car truck. No. 1,404,671; Jan. 24.
- Wallis, John W., Los Angeles, Calif. Projector. No. 1,402,816; Jan. 10.
- Wallis, Joseph A., Beverly, Mass. Vehicle spring. No. 1,403,928; Jan. 17.
- Wallis, Robert P., Arlington, Wash. Necktie attachment. No. 1,434,032; Oct. 31.
- Wallmann, Johann G., Oakland, Calif. Electric radiator. No. 1,430,706; Oct. 3.
- Wallner, John S. (See Johnston, R. L., and Wallner.)
- Wallstrom, George P., assignor to Lane Manufacturing Company, Montpelier, Vt. Truck. No. 1,425,727; Aug. 15.
- Wallwork, Samuel, Summerville, Pa. Railway tie and securing device. No. 1,423,702; July 25.
- Wallwork, Samuel, Summerville, Pa. Switch construction. No. 1,423,703; July 25.
- Walmsley, William E., Liverpool, England. Collapsible box. No. 1,414,236; Apr. 25.
- Walmsley, William E., Liverpool, England. Machine for closing cardboard and the like boxes. No. 1,438,675; Dec. 12.
- Walnut Growers Spray Manufacturing Company. (See Giles, Lloyd, assignor.)
- Walpole, Benjamin M., assignor to National Gas Furnace Company, Providence, R. I. Hardening and annealing furnace. No. 1,412,152; Apr. 11.
- Walroden, Adolph A., Norwich, Conn. Double-motion cam device. No. 1,435,035; Nov. 7.
- Walsburger, John A., Louisville, Ky. Child's vehicle. No. 1,421,046; June 27.
- Walsh, Alabama G., Mobile, Ala. Adjustable elastic shoulder underwear supporter. No. 1,424,329; Aug. 1.
- Walsh, Charles E., Cleveland, Ohio. Steam trap. No. 1,427,987; Sept. 5.
- Walsh, Clara B., St. Louis, Mo. Carpet protector. No. 1,430,341; Sept. 26.
- Walsh, Edward M., Monroe, Wash. Stamp receiver. No. 1,422,152; July 11.
- Walsh, Edward N. (See Horrican, J., and Walsh.)
- Walsh, Harry C. H., Chicago, Ill. Automatic feed mechanism for punch presses. No. 1,406,310; Feb. 14.
- Walsh, Hattie M., San Francisco, Calif. Bloomers. No. 1,426,525; Aug. 22.
- Walsh, John, Gardena, Calif. Weeder and cultivator. No. 1,413,509; Apr. 18.
- Walsh, John, Prides Crossing, Mass. Composition for coating glass. No. 1,434,514; Nov. 7.
- Walsh, John R., Newark, N. J. Dispensing machine. No. 1,412,727; Apr. 11.
- Walsh, John J. P., New York, N. Y. Tire. No. 1,423,549; July 25.
- Walsh, Joseph H., Reading, Mass., assignor to John-Manville-Incorporated, New York, N. Y. Drier. No. 1,432,270; Oct. 17.
- Walsh, Michael, Denver, Colo. Frogless switch. No. 1,425,619; Aug. 15.
- Walsh, Michael J., Philadelphia, Pa. Coating composition. No. 1,415,282; May 9.
- Walsh, Phillip J. (See Morelli, William, assignor.)
- Walsh, Philip J., assignor to C. Philip, San Francisco, Calif. Electric welding apparatus. No. 1,413,504; Apr. 18.
- Walsh, Philip R. (See Meyer, A., and Walsh.)
- Walsh, Robert L., Washington, D. C. Secondary or storage battery. No. 1,436,616; Nov. 21.
- Walsh, Vincent, New York, N. Y. Light-diffusing mediums. No. 1,412,432; Apr. 11.
- Walsh, William C., Chicago, Ill. Machine for cutting brick ice cream. No. 1,430,342; Sept. 26.
- Walsh, William, D. H. Miller, and A. Miller, Los Angeles, Calif. Mold support. No. 1,419,086; June 6.
- Walsh, William P., Chicago, Ill. Nonrefillable bottle. No. 1,415,741; May 9.
- Walter, Allen J., Mansfield, Ohio. Sterilizer. No. 1,430,421; Sept. 26.
- Walter, Edward H., Woodlynn, N. J., assignor of one-half to J. Eppler, Philadelphia, Pa. Knitted fabric. No. 1,436,326; Nov. 21.
- Walter, Ern W., Camden, N. J. Plate-lifting grapple. No. 1,402,326; Jan. 3.
- Walter, Ern W., Woodlynn, N. J. Shoe horn. No. 1,408,318; Feb. 28.
- Walter, Frank L., Dayton, Ohio. Indicator for amplifying gauges and the like. No. 1,431,999; Oct. 17.
- Walter, Frederick P., assignor of one-third to F. Conde and one-third to F. A. Schentzow, Oswego, N. Y. Knitted fabric. No. 1,407,343; Feb. 21.
- Walter, Harrison B., Philadelphia, Pa., assignor to Fibre Container Company. Multiple stapling machine. No. 1,417,704; May 30.
- Walter, Harrison B., Philadelphia, Pa., assignor to Fibre Container Company. Multiple stapling machine. No. 1,418,853; June 6.
- Walter, Harrison B., Philadelphia, Pa., assignor to Fibre Container Company. Multiple stapling machine. No. 1,420,227; June 20.
- Walter, Harvey F., and G. R. McNeely, Kinston, N. C. Carbonating apparatus. No. 1,434,573; Nov. 7.
- Walter, Harvey F., and G. R. McNeely, Kinston, N. C. Carbonator. No. 1,434,574; Nov. 7.
- Walter, John, et al. (See Metzger, Charles, assignor.)
- Walter, John P., Allentown, Pa. Shovel. No. 1,438,881; Dec. 12.
- Walter, Max C., Chappel, Nebr. Baseboard and siding gauge and marker. No. 1,405,366; Jan. 31.
- Walter, William H., Denver, Colo. Brooder stove. No. 1,434,273; Oct. 31.
- Walter, William L., assignor of one-third to R. J. Moore and one-third to B. J. Griesemer, Pueblo, Colo. Repairing automobile radiators. No. 1,405,880; Feb. 7.
- Walters, Alexander L., assignor of one-half to J. B. Hayes, Los Angeles, Calif. Speed-wrench handle. No. 1,433,163; Oct. 24.
- Walters, Charles A., Marion, Iowa. Drafting instrument. No. 1,422,641; July 11.
- Walters, Charles A., near Marion, Iowa. Tool handle. No. 1,423,055; July 18.
- Walters, Dean A., assignor to The Willys-Overland Company, Toledo, Ohio. Carbon-scraping tool. No. 1,431,200; Oct. 10.
- Walters, Edward H., assignor to Lite Products Corporation, Chicago, Ill. Window-sash fastener. No. 1,428,725; Sept. 12.
- Walters, Elizabeth M., Hove, England. Rubber globe. No. 1,422,642; July 11.
- Walters, Elmer, Eldorado, Kans. Oil-tank cleaner. No. 1,437,372; Nov. 28.
- Walters, Frank L. (See Bush, Carl, assignor.)
- Walters, Henry W., Jacksonville, Fla. Life-saving apparatus. No. 1,403,362; Jan. 10.
- Walters, Jacob G., Armstrongs Mills, Ohio. Antiskid device for vehicle wheels. No. 1,431,856; Oct. 10.
- Walters, John F. and R. S., Battle Creek, Mich. Yieldable clutch. No. 1,403,018; Jan. 10.
- Walters, Percy R., Montreal, Quebec, Canada. Package for cigarettes and the like. No. 1,407,105; Feb. 21.
- Walters, Richard S. (See Walters, John F. and R. S.)
- Waltham Watch Company. (See Fitch, Ezra C., assignor.)
- Waltham Watch Company. (See Marsh, Edward A., assignor.)
- Waltham Watch Company. (See Tesla, Nikola, assignor.)
- Waltham Watch Company. (See Toney, George W., assignor.)
- Walther, Charles W., Verona, Pa. Key bolt. No. 1,409,626; Mar. 14.
- Walther, George, Dayton, Ohio. Core frame. No. 1,404,250; Jan. 24.
- Walther, George, Dayton, Ohio. Apparatus for casting steel wheels. No. 1,417,959; May 30.
- Walther, George, assignor to The Dayton Steel Foundry Company, Dayton, Ohio. Pattern for cast-steel wheels. No. 1,426,621; Aug. 22.
- Walther, George, and P. W. Klinger, assignors to The Dayton Steel Foundry Company, Dayton, Ohio. Felly. No. 1,404,499; Jan. 24.
- Walther, Heinrich, Frankfort-on-the-Main, Germany, assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Pulling-over machine. (Reissue.) No. 15,309; Mar. 14.
- Walther, Jacob J., Dayton, Ohio. Grinding apparatus. No. 1,412,985; Apr. 18.
- Walton, Harry H. (See Fitzgerald, H. R., and Walton.)
- Walton, John R., Wichita, Kans. Cultivator. No. 1,418,342; June 6.
- Waluch, Lawrence, Baltimore, Md. Necktie holder. No. 1,408,151; Feb. 28.
- Walworth-English-Fleet Company. (See Kirmes, Edwin W., assignor.)
- Wamelink, Eugene C., Cleveland Heights, Ohio. Detachable connection. No. 1,432,045; Oct. 17.
- Wampach, Frank E., and A. E. Karlberg, Chicago, Ill. Telephone attachment. No. 1,425,559; Aug. 15.
- Wampler, Homer H., Dayton, Ohio. Bottle-capping device. No. 1,413,640; Apr. 25.
- Wanamaker, John, Philadelphia. (See Rehfuess, Martin O., assignor.)
- Wanamaker, Ernest. (See Amos, J. A., and Wanamaker.)
- Wand, Leo J., Elizabeth, Ill. Chain lock. No. 1,423,974; July 25.
- Wandel, Kurt, assignor, by mesne assignments, to Arkell Safety Bag Company, New York, N. Y. Manufacture and crinkling of paper. No. 1,436,127; Nov. 21.
- Wanderer-Werke vorm. Winkhofer & Jaenicke Aktiengesellschaft. (See Buschmann, Theodor E., assignor.)
- Wanders, Hans H. (See Hildebrand, J. L., and Wanders.)

- Wanders, Hans H., Brookline, assignor to The Flintkote Company, Boston, Mass. Stacking machine. No. 1,435,353; Nov. 14.
- Wandless, Franklin W., Berwyn, assignor to O. W. Brenizer, Philadelphia, Pa. Steam trap. No. 1,407,009; Feb. 21.
- Waney, Aloysius, assignor of two-fifths to R. Basile, St. Louis, Mo. Ladder shoe. No. 1,431,068; Oct. 3.
- Wang, Karl, Ostre Aker, near Christiania, Norway. Self-indicating target. No. 1,435,768; Nov. 14.
- Wangelin, Emma D., St. Louis, Mo. Handkerchief retainer for gloves. No. 1,426,797; Aug. 22.
- Wanick, George T. (See Eggleston, Will J., assignor.)
- Wanklyn, Frederic L., Montreal, Quebec, Canada. Torpedo. No. 1,437,625; Dec. 5.
- Wanklyn, Frederic L., Montreal, Quebec, Canada. Railway-track torpedo. No. 1,438,201; Dec. 12.
- Wannemacker, August S., Cloverdale, Ohio. Husking peg. No. 1,430,343; Sept. 26.
- Wanner, Ephraim P., et al. (See Rothenberger, Daniel M., assignor.)
- Wanner, George D., Dayton, Ohio. Kite reel. No. 1,414,237; Apr. 25.
- Wanstall, William, New York, N. Y. Valve for steam traps. No. 1,419,784; June 13.
- Wappler Electric Co. (See Fayer, Charles, assignor.)
- Wappler Electric Company. (See Mutscheller, A., and Stoye, assignors.)
- Wappler Electric Company. (See Mutscheller, Arthur, assignor.)
- Wappler Electric Co. (See Wappler, Reinhold H., assignor.)
- Wappler, Reinhold H., Yonkers, N. Y., assignor to Wappler Electric Co., Inc. Multidisk electric machine. No. 1,422,395; July 11.
- Wappler, Reinhold H., Yonkers, N. Y., assignor to Wappler Electric Company, Inc. Clamp mounting for electrodes. No. 1,422,396; July 11.
- Warburton, Frank G., London, England. Means for harmonizing the rotations of the couch roll and the breast roll of a paper-making machine. No. 1,410,856; Mar. 28.
- Warburton, Frank G., Manchester, England. Controlling means for electric motors. (Reissue.) No. 15,323; Mar. 28.
- Ward, Artemas. (See Giles, Harvey, assignor.)
- Ward Baking Company. (See Hoffman, C., Grigsby, and Cregor, assignors.)
- Ward Baking Company. (See McKinnie, Victor P., assignor.)
- Ward, Bertrand G., Jersey City, N. J. Making and mounting artificial birds. No. 1,412,074; Apr. 11.
- Ward, C. C., et al. (See Blades, Alvin C., assignor.)
- Ward, Charles A., Mount Vernon, N. Y. Motor-vehicle chassis. No. 1,410,231; Mar. 21.
- Ward, Charles A., Mount Vernon, N. Y. Controller for electrical vehicles. No. 1,425,070; Aug. 8.
- Ward, Charles A., Mount Vernon, N. Y. Boat and making the same. No. 1,436,418; Nov. 21.
- Ward, Charles E., Baltimore, Md. Window. No. 1,406,786; Feb. 14.
- Ward, Charles E., Charleston, W. Va. Steam boiler and superheater therefor. No. 1,436,838; Nov. 28.
- Ward, Clarence A., Brooklyn, N. Y. Paint and making same. No. 1,421,625; July 4.
- Ward, Claton E., Oxnard, Calif., assignor to Brenneis Manufacturing Company. Shifting mechanism for disk harrows. No. 1,421,047; June 27.
- Ward, Claton E., Oxnard, and F. W. Harris, Los Angeles, Calif., assignors to Brenneis Manufacturing Company, Tandem disk harrow. No. 1,421,048; June 27.
- Ward, David, Leetonia, Ohio. Envelope. No. 1,431,201; Oct. 10.
- Ward, David H., Seattle, Wash. Can-flattening machine. No. 1,434,417; Nov. 7.
- Ward, David R., assignor to The Ward Nail Company, Struthers, Ohio. Method of and apparatus for making headed articles. No. 1,402,027; Jan. 3.
- Ward, Edward K., and G. F. Boucher, St. Paul, Minn. Automobile direction signal. No. 1,405,699; Feb. 7.
- Ward, Edward K. and P. C. St. Paul, Minn. Street sweeper. No. 1,422,501; July 11.
- Ward, Frederick E., East Orange, assignor to Crocker-Wheeler Company, Ampere, N. J. Electromagnet. No. 1,436,327; Nov. 21.
- Ward, Frederick E., East Orange, assignor to Crocker-Wheeler Company, Ampere, N. J. Controller check. No. 1,436,328; Nov. 21.
- Ward, Frederick H., Brooklyn, N. Y. Wrench. No. 1,420,795; June 27.
- Ward, George R., Toronto, Ontario, Canada. Cylinder-grinding machine. No. 1,414,386; May 2.
- Ward, Harry E. (See Ward, Harry L. and H. E.)
- Ward, Harry L. and H. E., Long Beach, Calif. Low-gear lock and theft-preventing device for automobiles. No. 1,427,662; Aug. 29.
- Ward, Henry A., Trenton, Mo. Antiskidding device. No. 1,414,238; Apr. 25.
- Ward, Howard R., New York, N. Y. Toothbrush. No. 1,439,279; Dec. 19.
- Ward, James W., North Fond du Lac, Wis. Varnish-brush container. No. 1,426,622; Aug. 22.
- Ward, Jarrett M., Jarrettsville, Md. Punctureproof tire. No. 1,431,069; Oct. 3.
- Ward, Jerome. (See Barwell, J. W., Ward, Nelson, Hingher, Booth, and Blows.)
- Ward Leonard Electric Company. (See Bullinger, Frederic H., assignor.)
- Ward Leonard Electric Company. (See Burns, Dawson J., assignor.)
- Ward Leonard Electric Company. (See Kebler, Leonard, assignor.)
- Ward Leonard Electric Company. (See Schwagermann, William, assignor.)
- Ward, Lloyd W., assignor of one-fourth to O. C. Haggard, Springfield, Mo. Bed. No. 1,428,462; Sept. 5.
- Ward Nail Company, The. (See Ward, David R., assignor.)
- Ward, Paul A., assignor of one-half to R. E. Katz, Atlanta, Ga. Welt refinisher. No. 1,439,587; Dec. 19.
- Ward, Pier C. (See Ward, Edward K. and P. C.)
- Ward, Robert J., Cuthbert, Ga. Smoker's cabinet for automobiles. No. 1,440,255; Dec. 26.
- Ward, Sena M. (See Sutton, E., and Ward.)
- Ward, Stephen S., San Diego, Calif. Disk-record cabinet. No. 1,429,052; Sept. 12.
- Ward, Thomas W., Watertown, and B. F. Mellen, Felts Mills, N. Y. Pulp-stone burr. No. 1,419,785; June 13.
- Ward, Wallace E. (See Ingle, A. H., and Ward.)
- Ward, William E. (See Herbert, Charles C., assignor.)
- Ward, William H., Ashtabula, Ohio. Wrench. No. 1,429,053; Sept. 12.
- Ward, William J. (See Crossan, Patrick F., assignor.)
- Ward, Willis C., Orchard Lake, Mich. Andiron. No. 1,418,411; June 6.
- Wardell, Percy M., Dunmore, Pa. Spindle lock. No. 1,433,580; Oct. 31.
- Wardell, Robert D., Detroit, Mich. Lighting unit. No. 1,422,244; July 11.
- Warder, Walter J., jr., deceased, Chicago, Ill.; R. W. Limbach, administrator. Armature winding. No. 1,430,130; Sept. 26.
- Wardlaw, Joseph M., Bolton, S. C. Cotton chopper. No. 1,403,367; Jan. 31.
- Wardlow, James M., Ada, Okla. Tool. No. 1,434,257; Oct. 31.
- Wardlow, Robert E., et al. (See Cress, Hurve L., jr., assignor.)
- Wardwell, Simon W., deceased, Providence, R. I.; C. V. J. Christensen, E. C. Smith, A. A. Armington, and W. W. Bardsley, executors. Mechanical motion. No. 1,421,049; June 27.
- Wardwell, Simon W., deceased, Providence, R. I.; C. V. J. Christensen, E. C. Smith, A. A. Armington, and W. W. Bardsley, executors. Yarn retriever for braiding or similar machines. No. 1,423,587; July 25.
- Ware, Archibald J., Birmingham, England, assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Folding shelf, shutter, and the like. No. 1,427,663; Aug. 29.
- Ware, James E. (See Boerum, William H., assignor.)
- Ware, William B., Memphis, Tenn. Controlling device for cookers. No. 1,407,965; Feb. 28.
- Ware, William P., Alderson, W. Va. Combined tie-plate and rail anchor. No. 1,408,319; Feb. 28.
- Waream, Charles E., assignor to The American Laundry Machinery Company, Norwood, Ohio. Collar shaper. No. 1,433,316; Oct. 24.
- Warfield, Anthony. (See Kriehhoff, Anton.)
- Warga, Kálmán, New York, N. Y., assignor to Pyrocolor Corporation. Producing color films. No. 1,420,673; June 27.
- Waring, James H., Milwaukee, assignor of one-half to P. F. Schryer, Wauwatosa, Wis. Magazine pencil. No. 1,426,131; Aug. 15.
- Waring, James H., Milwaukee, assignor of one-half to P. F. Schryer, Wauwatosa, Wis. Pencil. No. 1,430,204; Sept. 26.
- Waring, William G., Webb City, Mo., assignor of one-half to G. Battelle, Columbus, Ohio. Extraction of zinc. No. 1,430,269; Sept. 26.
- Waring, William G., Webb City, Mo., assignor of one-half to G. Battelle, Columbus, Ohio. Extraction of lead and zinc. No. 1,430,270; Sept. 26.
- Waring, William G., Webb City, Mo., assignor of one-half to G. Battelle, Columbus, Ohio. Treatment of zinc-lead fume. No. 1,430,271; Sept. 26.
- Wark, William J., Salem, Ohio. Sign and its support. No. 1,422,502; July 11.
- Warland, Dual Rim Company Limited, The. (See Dukes, Williams, assignor.)
- Warman, Harold E., Manistee, Mich. Balanced pump casing. No. 1,439,386; Dec. 19.
- Warman, Nathan W., assignor to J. A. Darsie and G. Darsie, Los Angeles, Calif. Automatic adjustable spotlight. No. 1,433,317; Oct. 24.
- Warman, Ora J., assignor of one-half to B. H. Bassett, Roswell, N. Mex. Automatic feed for acetylene-gas generators. No. 1,436,128; Nov. 21.
- Warminski, Piotr, Baltimore, Md. Aeroplane control. No. 1,422,503; July 11.
- Warn, Carl A., and O. B. Norgren, assignors to Ideal Tool & Mfg. Company, Chicago, Ill. Centrifugal metal-lining machine. No. 1,433,763; Oct. 31.
- Warneford, Wetherell F., London, England. Horse-blanket retainer. No. 1,425,301; Aug. 8.
- Warneke, William E. (See Morrison, Alfred J., assignor.)

- Warner, Alonzo A., assignor to Landers, Frary & Clark, New Britain, Conn. Toaster. No. 1,404,916; Jan. 31.
- Warner, Alonzo A., assignor to Landers, Frary & Clark, New Britain, Conn. Means for adjusting vacuum-cleaner nozzles. No. 1,429,383; Sept. 19.
- Warner, Arthur L., Elgin, Ill., assignor to Chicago Railway Signal and Supply Company, Chicago, Ill. Rail expander and contractor. No. 1,412,639; Apr. 11.
- Warner, Arthur W., Media, Pa., assignor to The American Gas Company of New Jersey, Camden, N. J. Water seal for gas retorts. No. 1,423,975; July 25.
- Warner Brothers Company, The. (See Hartnett, John E., assignor.)
- Warner, Fred L., and U. G. Riggs, Onawa, Iowa. Anti-skid wheel attachment. No. 1,439,931; Dec. 26.
- Warner Gear Company. (See White, Samuel O., assignor.)
- Warner, George A., Detroit, Mich. Brickmaking. No. 1,420,796; June 27.
- Warner, George F., Ennis, Tex. Cultivator. No. 1,429,384; Sept. 19.
- Warner, James G., West Union, W. Va. Tool for slitting casings. No. 1,418,757; June 6.
- Warner, James L., Girard, Kans. Violin piano. No. 1,409,322; Mar. 14.
- Warner, Joseph L., Phoenix, Ariz. Match holder for hats. No. 1,418,217; May 30.
- Warner, Lawrence E. (See Mooers, B. M., and Warner.)
- Warner, Lawrence E., Berkeley, assignor to Motor Protector Manufacturing Company, San Francisco, Calif. Thermal relay. No. 1,429,660; Sept. 19.
- Warner Manufacturing Company. (See Cadman, Addi B., assignor.)
- Warner, Maurice L., assignor to Manning, Bowman & Company, Meriden, Conn. Percolator. No. 1,423,475; July 18.
- Warner-Patterson Company. (See Whyte, John, assignor.)
- Warner, Ralph C., Marshfield, Oreg. Bottle carrier. No. 1,439,588; Dec. 19.
- Warner, Ralph C., Marshfield, Oreg. Bottle carrier. No. 1,439,589; Dec. 19.
- Warner, Robert K., West Haven, Conn. Sampling apparatus. No. 1,423,890; July 25.
- Warner, Seward A., Ypsilanti, Mich. Milking machine. No. 1,413,546; Apr. 18.
- Warner, Sylvester C., McClure, Ohio. Beet topper. No. 1,423,374; July 18.
- Warner and Swasey Company, The. (See Drake, G. W., and Tufts, assignors.)
- Warner and Swasey Company, The. (See Lange, M. E., and Norton, assignors.)
- Warnock, Amos W., assignor to Economic Steel Rack Company, Everett, Mass. Caster. No. 1,421,626; July 4.
- Warnock, Amos W., Everett, assignor to C. H. Young, Boston, Mass. Clamp. No. 1,434,237; Oct. 31.
- Warnock, Herriott S., Chicago, Ill. Printing-element holder. No. 1,419,112; May 30.
- Warnock, Wallace S., Chicago, Ill. Printing-element holder. No. 1,406,787; Feb. 14.
- Warnock, Wallace S., assignor to I. Grollman, Chicago, Ill. Clutch and transmission. No. 1,432,432; Oct. 17.
- Warnock, Wm., Co. (See Ingvaldstad, Hildar E., assignor.)
- Warp Twisting-In Machine Company. (See Becker, John H., assignor.)
- Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Rail anchor and making same. No. 1,404,500; Jan. 24.
- Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Guard-rail clamp. No. 1,415,742; May 9.
- Warr, Harold G., assignor to The P & M Company, Chicago, Ill. Rail anchor. No. 1,415,743; May 9.
- Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Rail anchor. No. 1,415,744; May 9.
- Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Rail anchor. No. 1,419,333; June 13.
- Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Rail anchor. No. 1,425,223; Aug. 8.
- Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Rail anchor. No. 1,425,224; Aug. 8.
- Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Rail anchor. No. 1,436,301; Nov. 21.
- Warren Clock Company. (See Warren, Henry E., assignor.)
- Warren, Erskine D. (See Knox, William J., assignor.)
- Warren Featherbone Company. (See Johnston, James G., Jr., assignor.)
- Warren, Frank H., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Trimming machine. No. 1,436,067; Nov. 21.
- Warren, G. G., et al. (See Marmon, Albert W., assignor.)
- Warren, George T., Sr., Charleston, S. C. Fish net. No. 1,420,396; June 20.
- Warren, Henry E., Ashland, Mass., assignor to General Electric Company. Timing device. No. 1,408,050; Feb. 28.
- Warren, Henry E., assignor to Warren Clock Company, Ashland, Mass. Time-indicating apparatus. No. 1,409,502; Mar. 14.
- Warren, Henry E., Ashland, Mass., assignor to Warren Clock Company. Time-indicating apparatus. No. 1,420,895; June 27.
- Warren, Henry E., Ashland, Mass., assignor to Warren Clock Company. Control system. No. 1,420,896; June 27.
- Warren, Henry E., Ashland, Mass., assignor to Warren Clock Company. Lubricating system. No. 1,430,867; Oct. 3.
- Warren, Herbert A., Woburn, Mass. Truss pad. No. 1,422,153; July 11.
- Warren, James I., and G. Q. Shaffer, Ottumwa, Iowa. Grip or suitcase. No. 1,436,617; Nov. 21.
- Warren, John H. (See Kiefer, W. F., and Warren.)
- Warren, John R., et al., trustees. (See Warren, J. R., and Brechting, assignors.)
- Warren, John R., Grand Rapids, assignor to himself and D. J. Campbell, Muskegon Heights, and C. E. Johnson, P. R. Beardsley, and C. P. Damm, Muskegon, Mich., trustees. Rotary valve. No. 1,410,232; Mar. 21.
- Warren, John R., Grand Rapids, assignor to himself, D. J. Campbell, Muskegon Heights, C. E. Johnson, P. R. Beardsley, and C. P. Damm, Muskegon, Mich., trustees. Engine. No. 1,439,932; Dec. 26.
- Warren, John R., and A. Brechting, Grand Rapids, assignors to J. R. Warren, Grand Rapids, D. J. Campbell, Muskegon Heights, C. E. Johnson, P. R. Beardsley, and C. P. Damm, trustees, Muskegon, Mich. Engine valve. No. 1,417,590; May 30.
- Warren, Joseph, Brooklyn, N. Y. Match-box attachment. No. 1,432,372; Oct. 17.
- Warren, Joseph A., Manchester, N. H. Keyhole protector. No. 1,405,368; Jan. 31.
- Warren, Louis A., Hodgenville, Ky. Building block. No. 1,402,327; Jan. 3.
- Warren, Murrell C., and J. J. Krohn, Arcata, assignors to California Barrel Co., San Francisco, Calif. Dry kiln. No. 1,435,094; Nov. 7.
- Warren, Nelson J., and A. J. Field, Wagner, S. Dak. Liquid-dispensing apparatus. No. 1,408,552; Mar. 7.
- Warren, Ralph H., Montclair, N. J. Apparatus for reducing materials. No. 1,424,697; Aug. 1.
- Warren, Thomas H., Dexter, Iowa. Autohemic therapy potentiometer. No. 1,417,219; May 23.
- Warren Webster & Company. (See Fitts, James L., assignor.)
- Warren, William C., and G. L. Kier, Philadelphia, Pa., assignors to S. L. Allen & Co., Inc. Agricultural implement. No. 1,429,054; Sept. 12.
- Warren, William J., Cardston, Alberta, Canada. Wire cutter. No. 1,414,239; Apr. 25.
- Warrin, Edmondson, Upper Montclair, N. J. Encrusted metal design on ceramic substances and making same. No. 1,438,799; Dec. 12.
- Warriner Manufacturing Company. (See Elrod, Milton, assignor.)
- Warrington, Chester H. (See Warrington, George and C. H.)
- Warrington, George and C. H., Washington, D. C.; said G. Warrington assignor to said C. H. Warrington. Timing device for hydrocarbon engines. No. 1,418,996; June 6.
- Warshaw, Nathan, New York, N. Y. Fan. No. 1,424,864; Aug. 8.
- Warth, Nathaniel G., Gallipolis, Ohio. Inner tubes for pneumatic tires. No. 1,410,630; Mar. 28.
- Warth, Nathaniel G., Gallipolis, Ohio. Pneumatic tire. No. 1,428,726; Sept. 12.
- Warth, Nathaniel G., Columbus, Ohio. Inner tube for pneumatic tires. No. 1,429,385; Sept. 19.
- Wartman, Granville A. (See Smith, H. N., and Wartman.)
- Warwick, Charles, assignor to W. R. Richardson, Vancouver, British Columbia, Canada. Domestic oil burner. No. 1,430,131; Sept. 26.
- Wasem, Louis, assignor to Graham Valve Company, Mount Vernon, Ind. Valve. No. 1,409,127; Mar. 7.
- Washburn-Crosby Company. (See Zesbaugh, L. G., and Anderson, assignors.)
- Washburn-Crosby Company. (See Zesbaugh, Lawrence G., assignor.)
- Washburn, Edwin C., Englewood, N. J. Side-frame and bolster spring bearing. No. 1,411,763; Apr. 4.
- Washburn, Edwin C., Englewood, N. J. Coupling yoke and draft attachment. No. 1,436,068; Nov. 21.
- Washburn, Frederick G., Los Angeles, Calif. Carburetor. No. 1,418,499; June 6.
- Washburn, Herbert I., Laurel Springs, N. J. Apparatus for guiding independently-moving elements. No. 1,427,664; Aug. 29.
- Washburn, Herbert I., Magnolia, N. J. Apparatus for guiding independently-moving elements. No. 1,435,435; Nov. 14.
- Washburn, Robert M. (See Heath, W. P., and Washburn.)
- Washburn, Willis F., Fredrikstad, assignor to Titan Co. A/S, Christiania, Norway. Titanium oxid pigment and producing same. No. 1,412,027; Apr. 4.
- Washburne, Alva C., et al. (See Hammond, Grant, assignor.)
- Washburne, William H., assignor to F. S. Shaw, Chicago, Ill. Manufacturing laminated valves. No. 1,415,745; May 9.
- Washington, Bowden. (See Cutting, F., and Washington.)

Alphabetical list of patentees—Continued.

- Washington, Bushrod C., and S. K. Joice, Washington, D. C. Fan. No. 1,424,961; Aug. 8.
- Washington Iron Works. (See Berger, Knute, assignor.)
- Washington Manufacturing Company. (See Knott, H. H., Hammer, and Jungbluth, assignors.)
- Washington Manufacturing Company. (See Knott, Harry H., assignor.)
- Washington, Thomas C., Washington, D. C. Puzzle. No. 1,431,496; Oct. 10.
- Washington, William L., East Youngstown, Ohio. Emergency tank for automobiles. No. 1,421,050; June 27.
- Wash-Kosh Manufacturing Company. (See Doman, Herman C., assignor.)
- Wasieff, Alex. (See Kigas, John, assignor.)
- Wasmuth, August, et al. (See Delling, Alwin, assignor.)
- Wass, Andrew G., Minneapolis, Minn. Combined lock-bolt and joint-packing strip for French doors. No. 1,407,966; Feb. 28.
- Wass, Joseph, and R. S. MacGregor, Newhaven, England. Oxyacetylene blowpipe. No. 1,409,433; Mar. 14.
- Wasserfallen, Charles F., assignor to Detroit Tire Carrier Co., Detroit, Mich. Tire-rim lock. No. 1,425,817; Aug. 15.
- Wasserlein, Victor E., assignor to J. E. M. Products Corporation, Chicago, Ill. Mucilage holder and applicator. No. 1,438,510; Dec. 12.
- Wassman, Fred C., Melrose Park, and E. Kendall, Maywood, Ill. Protective device for automobile batteries and generators. No. 1,428,727; Sept. 12.
- Wasson, Louis F., Ellensburg, Wash. Carburetor. No. 1,408,786; Mar. 7.
- Wasson Piston Ring Company. (See Wolf, William F., assignor.)
- Wasson, William W., assignor of one-half to G. I. Clithero, Yakima, Wash. Vending machine. No. 1,414,909; May 2.
- Wasyl Klymko et al. (See Andrusyszyn, Frank, assignor.)
- Watanabe, Masanori. (See Tamura, S., and Watanabe.)
- Watanabe, Masanori, assignor to Kyokuto Jidosha Kogyo Co., Ltd., Tokyo, Japan. Coupling device for power-transmission mechanism and brake apparatus for an automobile. No. 1,406,119; Feb. 7.
- Waterbor, Elmer F., and T. H. Simpson, assignors to Michigan Malleable Iron Company, Detroit, Mich. Vehicle wheel. No. 1,433,764; Oct. 31.
- Waterbury Buckle Co. (See Malby, Julius, assignor.)
- Waterbury Buckle Co. (See Miller, Theodore, assignor.)
- Waterbury Clock Co. (See Horn, Ernest H., assignor.)
- Waterbury Clock Co. (See Oedell, L., and Bell, assignors.)
- Waterbury Clock Co. (See Putnam, James R., assignor.)
- Waterbury Clock Co. (See Wehinger, Frederick, assignor.)
- Waterbury Farrel Foundry and Machine Company, The. (See Candee, Zenas P., assignor.)
- Waterbury Farrel Foundry and Machine Company, The. (See Wilcox, Richard L., assignor.)
- Waterbury Fastener Company. (See Pullen, George F., assignor.)
- Waterer, Harold C., Southall, assignor to L. P. Driscoll, Ealing, London, England. Steadying device for lathes. No. 1,419,786; June 13.
- Waterhouse, Harold D., Quincy, Mass., assignor, by mesne assignments, to W. S. Crane, J. Crane, and F. V. Stone, trustees. Primer for internal-combustion engines. No. 1,421,627; July 4.
- Waterhouse, Harold D., Quincy, assignor to Bay State Pump Company, Boston, Mass. Piston. No. 1,422,729; July 11.
- Waterhouse Laundry, Machinery & Supply Company. (See Enrl, Walter, assignor.)
- Waterloo, John, New Eagle, assignor to Window Glass Machine Company, Pittsburgh, Pa. Machine for cutting glass sheets or like articles. No. 1,439,043; Dec. 19.
- Waterlow and Sons, Limited. (See Goodman, Vivian E., assignor.)
- Waterman, Albert A., assignor to Harding Manufacturing Co., Mansfield, Mass. Separable tool and holder. No. 1,413,814; Apr. 25.
- Waterman, Arthur. (See Armstrong, Ralph W., assignor.)
- Waterman, Frank N., Summit, N. J., assignor, by mesne assignments, to Radio Corporation of America. Electrical measuring instrument. No. 1,426,132; Aug. 15.
- Waterman, Herman, New York, N. Y. Burner. No. 1,415,965; May 16.
- Waterman, Howard L. (See Waterman, L. E., Trap-hagen, and Waterman.)
- Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Planting mechanism. No. 1,434,575; Nov. 7.
- Waterman, Lewis E., H. R. Traphagen, and H. L. Waterman, assignors to Emerson-Brantingham Company, Rockford, Ill. Transmission mechanism. No. 1,429,986; Sept. 26.
- Watrous Fire Engine Company. (See Storey, Leonidas P., assignor.)
- Waters, Archibald D., assignor to The Stanley Works, New Britain, Conn. Grease cup and making same. No. 1,411,821; Apr. 4.
- Waters, Charles L. (See Simcox, E. S., and Waters.)
- Waters, Edward T., Omaha, Nebr. Ink-distributing mechanism. No. 1,427,988; Sept. 5.
- Waters, Edward T., Omaha, Nebr. Feed and delivering mechanism for platen presses. No. 1,437,030; Nov. 28.
- Waters, Harry B., Denver, Colo. Broom and brush. No. 1,425,560; Aug. 15.
- Waters, Henry, Bisbee, Ariz. Shoe stretcher. No. 1,429,661; Sept. 19.
- Waters, Maurice W., Detroit, Mich. Desk calendar. No. 1,406,120; Feb. 7.
- Waters, Reginald H., Cumberland, Md., assignor to Kelly-Springfield Tire Company, New York, N. Y. Vehicle tire. No. 1,407,967; Feb. 28.
- Waters, Reginald H., Cumberland, Md., assignor to Kelly-Springfield Tire Company, New York, N. Y. Making semisolid tires. No. 1,428,508; Sept. 5.
- Waters, Thomas C., Shenandoah, Pa. Flowerpot or bouquet holder. No. 1,421,327; June 27.
- Watertown Table Slide Company. (See Smith, H. N., assignor.)
- Wathey, Arthur, Cleveland, Ohio. Air-distributing box for stokers. No. 1,419,183; June 13.
- Watkins, Charles W., Harranetown, Pa. Car-holding ratchet. No. 1,409,264; Mar. 14.
- Watkins, Dwight E., Galesburg, Ill. Sanitary waste basket. No. 1,421,628; July 4.
- Watkins, Frederick A., Chicago, Ill. Book hanger and advertising device. No. 1,410,976; Mar. 28.
- Watkins, Guy S. S., Daviot, Scotland. Spinning bait for fishing purposes. No. 1,420,228; June 20.
- Watkins, Herbert H., Homer, La. Oil pump. No. 1,421,629; July 4.
- Watkins, John and W. E., Milmay, N. J. Air-agitating apparatus. No. 1,436,553; Nov. 21.
- Watkins, Joseph W., Ridgely, assignor of one-sixth to J. L. Vick, one-twelfth to G. E. Sullivan, one-twelfth to R. Sullivan, Jackson, and one-third to W. H. Vick, Brownsville, Tenn. Cotton-picker's sack. No. 1,402,697; Jan. 3.
- Watkins, Leigh, New Orleans, La. Motor. No. 1,417,003; May 23.
- Watkins, Maura F., Star Lime Works, Ky. Cultivator. No. 1,421,872; July 4.
- Watkins, Orla H. (See Rhenstrom, A., and Watkins.)
- Watkins, Oscar D., Philadelphia, Pa. Brake-shoe key. No. 1,435,769; Nov. 14.
- Watkins, Raymond H., Somerville, Mass. Spring suspension for vehicles. No. 1,418,758; June 6.
- Watkins, Roy A., assignor to Clarinda Lawn Mower Company, Clarinda, Iowa. Eccentric driving mechanism. No. 1,413,815; Apr. 25.
- Watkins, Roy A., assignor, by mesne assignments, to E. Lisle, Clarinda, Iowa. Wringer. No. 1,426,526; Aug. 22.
- Watkins, Thomas R., Norlina, N. C. Clothesline reel. No. 1,433,921; Oct. 31.
- Watkins, Verna O., Atlanta, Ga. Educational board. No. 1,406,592; Feb. 14.
- Watkins, William E. (See Watkins, John and W. E.)
- Watkins, William H., London, England. Jib crane and the like. No. 1,434,076; Oct. 31.
- Watkinson, John W., Charleroi, Pa. Building block. No. 1,414,240; Apr. 25.
- Watrous, Agnes B., executrix. (See Watrous, Edward L.)
- Watrous, Clifford M., assignor to Gong Bell Manufacturing Company, East Hampton, Conn. Toy telephone. No. 1,419,902; June 13.
- Watrous, Denton J. (See Hibbard, R. B., Watrous, and Basset.)
- Watrous, Denton J., assignor to Airdry Corporation, Groton, N. Y. Drying apparatus. No. 1,419,707; June 13.
- Watrous, Earl G., Chicago, Ill. Carburetor heater. No. 1,402,461; Jan. 3.
- Watrous, Earl G., Chicago, Ill. Self-supporting golf bag. No. 1,404,559; Jan. 24.
- Watrous, Earl G., Chicago, Ill. Closet seat. No. 1,415,130; May 9.
- Watrous, Earl G., Chicago, Ill. Closet. No. 1,433,581; Oct. 31.
- Watrous, Edward L., deceased, El Paso, Tex., A. B. Watrous, executrix. Metal coating and apparatus therefor. No. 1,418,412; June 6.
- Watrous, Paul J. (See Dailey, William J. F., assignor.)
- Watson, Albert L., Penn Yan, N. Y. Stapling head. No. 1,434,936; Nov. 7.
- Watson, Alexander, Toronto, Ontario, Canada. Truck. No. 1,419,184; June 13.
- Watson, Alfred R., Bembridge, Isle of Wight, England. Return-pipe connections for hot-water tanks. No. 1,425,427; Aug. 8.
- Watson, Arthur C., Sarnia, Ontario, Canada. Grain-car door. No. 1,415,746; May 9.
- Watson, Arthur E., assignor to J. D. Head, Birmingham, Ala. Automobile lock. No. 1,434,515; Nov. 7.
- Watson, Bazel R., Everett, Wash. Saw handle. No. 1,414,608; May 2.
- Watson, Edgar J. (See Eichman, J., and Watson.)
- Watson, Edward A., Anderson, and R. J. Floyd, Greenville, S. C. Spinning machine. No. 1,430,775; Oct. 3.
- Watson, Edward A., Anderson, assignor of one-half to R. J. Floyd, Greenville, S. C. Spinning machine. No. 1,430,774; Oct. 3.
- Watson, Edward L., Washington, D. C. Adjustable fulcrum for veterinary dental forceps. No. 1,403,581; Jan. 17.

- Watson, Edwin A., Mill Valley, Calif. Phonograph. No. 1,436,129; Nov. 21.
- Watson, Edwin M., Boston, Mass. Automatic magnetic lock. No. 1,405,369; Jan. 31.
- Watson, Ernest A., assignor to The M-L Magneto Syndicate Limited, Coventry, England. Dynamo-electric machine. No. 1,422,154; July 11.
- Watson, Frederick W., assignor to The Mulholland Hatch Fastener Company, Cleveland, Ohio. Hatch fastener. No. 1,413,081; Apr. 18.
- Watson, George, London, England. Furnace for the destruction of house and garden refuse. No. 1,433,438; Oct. 24.
- Watson, George R., assignor to Armstrong Manufacturing Company, Waterloo, Iowa. Weldless drill jar. No. 1,405,468; Feb. 7.
- Watson, Harry W., Memphis, Tenn. Wrench. No. 1,429,386; Sept. 19.
- Watson, Harry W., Memphis, Tenn. Drill holding and releasing device. No. 1,439,654; Dec. 19.
- Watson, Harvey L. (See Applin, J. W., and Watson.)
- Watson, Harvey L., Indianapolis, Ind., assignor, by mesne assignments, to C. M. Hall Lamp Company, Detroit, Mich. Tilting reflector for motor vehicles. No. 1,421,630; July 4.
- Watson, James, Nottingham, England. Spring wheel for vehicles. No. 1,414,003; Apr. 25.
- Watson, James, Athens, Pa. Smoker's table. No. 1,422,397; July 11.
- Watson, James A., Silver Spring, Md. Oil-purifying apparatus for hydrocarbon engines. No. 1,431,346; Oct. 10.
- Watson, James A., Silver Spring, Md. Oil-purifying apparatus for hydrocarbon engines. No. 1,431,347; Oct. 10.
- Watson, John D., Lake City, Calif. Stadia-rod attachment. No. 1,428,669; Sept. 12.
- Watson, Leonard A., Port Washington, assignor to The Safety Car Heating and Lighting Company, New York, N. Y. Railway lighting system. No. 1,417,787; May 30.
- Watson, Milton T., et al. (See Gore, William M., assignor.)
- Watson, Oliver E., Dayton, Ohio. Automobile radius rod. No. 1,418,759; June 6.
- Watson, Robert, Silver Spring, Md. Means for indicating stopping, idling, and working times of automobile engines. No. 1,414,910; May 2.
- Watson, Robert, Silver Spring, Md. Time indicator for automobiles. No. 1,415,004; May 2.
- Watson, Sidney A., Toronto, Ontario, Canada. Shock absorber. No. 1,439,209; Dec. 19.
- Watson, Theodore W., Phoenix, Ariz. Receptacle support. No. 1,414,911; May 2.
- Watson, Thomas S., Milwaukee, Wis. Conveying structure. No. 1,427,989; Sept. 5.
- Watson, Thomas S., Milwaukee, Wis. Running gear for conveying structures. No. 1,427,990; Sept. 5.
- Watson, Thomas S., Milwaukee, Wis. Conveying structure. No. 1,438,151; Dec. 5.
- Watson, William A., Malden, and W. Eustis, Newton, assignors to J. P. Eustis Manufacturing Company, Cambridge, Mass. Braking means for perforated music rolls. No. 1,406,430; Feb. 14.
- Watson, William A., Malden, and W. Eustis, Newton, assignors to J. P. Eustis Manufacturing Company, Cambridge, Mass. Player mechanism for musical instruments. No. 1,430,517; Sept. 26.
- Watson, William V., assignor of one-half to San Diego Consolidated Gas and Electric Company, San Diego, Calif. Composition and process for preserving wood and metals. No. 1,404,501; Jan. 24.
- Watson, William W., Jamestown, N. Y. Fruit-drying tray. No. 1,408,666; Mar. 7.
- Watson, William W., Jamestown, N. Y. Metal window screen for railway cars. No. 1,408,849; Mar. 7.
- Watt, Delton C., Danville, and F. A. Grearson, Barre, Vt. Angling device for automobiles and other uses. No. 1,407,713; Feb. 28.
- Watt, Delton C., and F. A. Grearson, Barre, Vt. Automobile top. No. 1,416,659; May 16.
- Watt, Edgar H., West Newton, Pa. Pick. No. 1,419,787; June 13.
- Watt, Frederick, assignor of one-third to T. J. Pembor, Chicago, Ill. Building construction. No. 1,423,375; July 18.
- Watt, John, Baltimore, Md. Automatic key bolt. No. 1,410,042; Mar. 21.
- Wattel, Achille L. F., Seyres, France. Device for attaching the suspension springs of automobiles. No. 1,419,788; June 13.
- Watters, Alec. (See Helle, Warren W., assignor.)
- Watters, Daniel M., assignor to Killefer Manufacturing Company, Los Angeles, Calif. Disk cultivator. No. 1,421,113; June 27.
- Watters, George M., and W. A. Brown, Minneapolis, Minn. Broom and brush handle. No. 1,416,533; May 16.
- Wattmann, John, Berlin-Lankwitz, Germany, assignor to Firm: Electrothermit Gesellschaft mit beschränkter Haftung, Berlin, Germany. Welding metals. No. 1,440,256; Dec. 26.
- Watts, Alfred E. (See Merritt, F. W., and Watts.)
- Watts, George F., Boston, Mass. Derrick. No. 1,423,376; July 18.
- Watts, George F., Boston, Mass. Mast top. No. 1,423,377; July 18.
- Watts, Harry J., Turtle Creek, Pa. Floating tool chuck. No. 1,424,535; Aug. 1.
- Watts, Harry M., Shawnee, Okla. Toy aeroplane. No. 1,421,631; July 4.
- Watts, Isaac J., King City, Calif. Bench stop. No. 1,421,328; June 27.
- Watts, John T., Los Angeles, Calif. Pair of suspenders. No. 1,430,422; Sept. 26.
- Watts, Marion E., Portland, Ore. Excavator. No. 1,434,937; Nov. 7.
- Watts, Reid L., Rock Island, Ill. Chiropractic outfit. No. 1,413,547; Apr. 18.
- Watts, Thomas A., assignor to The Springfield Metallic Casket Company, Springfield, Ohio. Latch. No. 1,422,504; July 11.
- Watts, Zena, Chicago, Ill. Tongs. No. 1,429,813; Sept. 19.
- Waugh, Bert W., Jones, and G. H. Standerline, Corey, Mich. Thrust-bearing means for crank shafts. No. 1,438,415; Dec. 12.
- Waukesha Motor Company. (See Fisher, James B., assignor.)
- Wawricka, John, New York, N. Y. Pipe, cigar, and cigarette holder. No. 1,418,113; May 30.
- Wawrzyniak, Walenty, St. Louis, Mo. Building material. No. 1,407,608; Feb. 21.
- Way, Edward J., Johannesburg, Transvaal, South Africa. Delivering and winding cinematograph film. No. 1,415,131; May 9.
- Way, Edward J., Johannesburg, Transvaal, South Africa. Delivering cinematograph film for exhibition. No. 1,429,469; Sept. 19.
- Way, Edward J., Johannesburg, Transvaal, South Africa. Reel for cinematograph film and the like. No. 1,432,647; Oct. 17.
- Way, Henry R. (See Hines, J. J., and Way.)
- Way, Sylvester B., Milwaukee, Wis. Articulated train. No. 1,412,075; Apr. 11.
- Way, Tom C., Wimbledon, London, England. Brake shoe of tramway and railway vehicles. No. 1,434,464; Nov. 7.
- Wayland, Frank, Salem, Mass. Tanning process. No. 1,430,479; Sept. 26.
- Wayne, Herbert N., Washington, D. C. Inner tube for automobile tires. No. 1,415,283; May 9.
- Wayne, Herbert N., Washington, D. C. Inner liner for automobile tires. No. 1,416,917; May 23.
- Wayne, Herbert N., Washington, D. C. Universal joint. No. 1,424,051; July 25.
- Wayne, Herbert N., Washington, D. C. Self-sealing inner tube for automobile tires. No. 1,428,570; Sept. 12.
- Wayne, Herbert N., Washington, D. C. Fibrillous tire. No. 1,428,571; Sept. 12.
- Wayne Manufacturing Company. (See Shartle, Ralph W., assignor.)
- Wayne Oil Tank and Pump Company. (See Baker, Linnaeus E., assignor.)
- Wayne Oil Tank and Pump Company. (See Langston, Robert E., assignor.)
- Weagant, Roy A., New York, N. Y., assignor, by mesne assignments, to Radio Corporation of America. Apparatus for receiving radiosignals. No. 1,425,154; Aug. 8.
- Weagant, Roy A., New York, N. Y., assignor, by mesne assignments, to Radio Corporation of America. Apparatus for preventing static interference in radiosignaling. No. 1,426,133; Aug. 15.
- Weagant, Roy A., Douglas Manor, N. Y., assignor to Radio Corporation of America. Receiving apparatus for radiosignals. No. 1,438,347; Dec. 12.
- Wear-Ever Tank & Paint Co. (See Parton, William H., assignor.)
- Wear, Frank F., Montara, Calif. Display bin. No. 1,420,069; June 20.
- Wear, Walter M., and W. L. Drake, Dewar, Okla. Nut lock. No. 1,427,566; Aug. 29.
- Wears, James G., Ecla, Tex. Nonchokable boot for grain elevators. No. 1,440,257; Dec. 26.
- Weasser, William H., Pittsfield, Mass. Attachment for phonographs. No. 1,426,693; Aug. 22.
- Weatherbe, Richard W. (See Duste, George H., assignor.)
- Weatherhead, Edward H., Cleveland Heights, and H. T. Patton, assignors to The Bishop and Babcock Company, Cleveland, Ohio. Damper regulator. No. 1,458,348; Dec. 12.
- Weatherlow, George L., Kansas City, Mo. Flexible coupling for flexible shafts. No. 1,402,981; Jan. 10.
- Weaver, Caius E., Syracuse, assignor to Birmingham Motors, a Trust, Jamestown, N. Y. Automobile frame. No. 1,435,354; Nov. 14.
- Weaver, Caius E., Syracuse, assignor to Birmingham Motors, a Trust, Jamestown, N. Y. Torque tube. No. 1,435,355; Nov. 14.
- Weaver, Caius E., Syracuse, assignor to Birmingham Motors, a Trust, Jamestown, N. Y. Windshield. No. 1,435,356; Nov. 14.
- Weaver, Clayton B., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Sheet-metal-stamping dies. No. 1,408,787; Mar. 7.
- Weaver, Della M., Detroit, Mich. Direction indicator for motor vehicles. No. 1,435,567; Nov. 14.
- Weaver, Elverton W., Cleveland Heights, Ohio. Automobile steering post. No. 1,403,660; Jan. 17.

Alphabetical list of patentees—Continued.

- Weaver, Eugene, Bryan, Ohio. Lead adjustment for propeller blades. No. 1,405,643; Feb. 7.
- Weaver, Floyd C., Washington, D. C. Grinding and lapping machine. No. 1,422,505; July 11.
- Weaver, Frank R. (See Lane, F. L., and Weaver.)
- Weaver, Frederick A. (See Crawford, J., and Weaver.)
- Weaver, Frederick H., New York, N. Y. Form for concrete pipes. No. 1,423,284; July 18.
- Weaver, George W., St. Joseph, Mo. Workman's garment. No. 1,409,805; Mar. 14.
- Weaver, Harry A., assignor to The Oakes Company, Indianapolis, Ind. Spare-tire lock. No. 1,430,707; Oct. 3.
- Weaver, Harry A., assignor to The Oakes Company, Indianapolis, Ind. Combined trouble-light and spare bulb and fuse carrier. No. 1,434,639; Nov. 7.
- Weaver, Ira A., and R. G. Stoehr, assignors to The Weaver Manufacturing Company, Springfield, Ill. Truck jack. No. 1,424,962; Aug. 8.
- Weaver, Lucius E., assignor to Summit Thread Company, East Hampton, Conn. Sewing-machine bobbin case. No. 1,414,763; May 2.
- Weaver, Lucius E., assignor to Summit Thread Company, East Hampton, Conn. Sewing-machine bobbin case. No. 1,419,185; June 13.
- Weaver, Lucius E., assignor to Summit Thread Company, East Hampton, Conn. Adjunct for sewing-machine shuttles. No. 1,421,873; July 4.
- Weaver, Lucius E., assignor to Summit Thread Company, East Hampton, Conn. Sewing-machine bobbin case. No. 1,423,056; July 18.
- Weaver Manufacturing Company, The. (See Weaver, I. A., and Stoehr, assignors.)
- Weaver, Paul L., Allentown, Pa. Picture frame. No. 1,427,874; Sept. 5.
- Weaver, Robert R., assignor to General American Tank Car Corporation, Chicago, Ill. Underframe for cars. No. 1,420,352; June 20.
- Weaver, Robert R., assignor to General American Tank Car Corporation, Chicago, Ill. Car. No. 1,428,196; Sept. 5.
- Weaver, Samuel A., Ticonderoga, N. Y. Marking tool. No. 1,403,213; Jan. 10.
- Weaver, Stephen S., Barberton, Ohio. Portable supplemental toilet seat. No. 1,405,370; Jan. 31.
- Weaver, Theodore A., Miamisburg, Ohio. Nut lock. No. 1,413,548; Apr. 18.
- Weaver, William C., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,438,732; Dec. 12.
- Weaver, William W. (See Wright, E. R., and Weaver.)
- Webb, Arthur, Colchester, W. A. Belton, South Lowestoft, and C. P. B. Reinspach, Colchester, England. Fish-splitting machine. No. 1,402,982; Jan. 10.
- Webb, Cecil, Lisburn, Ireland. Two-stroke-cycle internal-combustion engine. No. 1,436,130; Nov. 21.
- Webb, Clarence F. (See Atherton, F. K., and Webb.)
- Webb, Edwin W., assignor to Standard Car Truck Company, Chicago, Ill. Car truck. No. 1,407,452; Feb. 21.
- Webb, Edwin W., Chicago, Ill., assignor to Standard Car Truck Company. Six-wheeled freight truck. No. 1,432,929; Oct. 24.
- Webb, George S., Aurora, Ill. Tire-rim contracting and expanding device. No. 1,410,631; Mar. 28.
- Webb, George S., Aurora, Ill. Demountable-rim construction. No. 1,440,190; Dec. 26.
- Webb, Hartwell W., Cresskill, N. J. Cinematographic apparatus. No. 1,409,265; Mar. 14.
- Webb, Horace D., Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Edgetrimming machine. No. 1,415,966; May 16.
- Webb, Irving F. (See Ostrom, F. W., and Webb.)
- Webb, Irving F., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Adjustable carrier for sewing machines. No. 1,424,698; Aug. 1.
- Webb, Irving F., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Power transmitter. No. 1,433,318; Oct. 24.
- Webb, James P., assignor of forty-eight per cent to C. F. Nichols, Frederick, Okla. Animal trap. No. 1,402,197; Jan. 3.
- Webb, Jean F., jr., assignor to The International Signal Co., Incorporated, New York, N. Y. Train-stopping apparatus. No. 1,433,582; Oct. 31.
- Webb, John R., and H. G. G. Blakemore, London, assignors to Ransome Machinery Company (1920) Limited, Westminster, England. Metallic sheeting and locking bar. No. 1,431,273; Oct. 10.
- Webb, John R., and H. G. G. Blakemore, London, assignors to Ransome Machinery Company (1920) Limited, London, England. Metallic sheeting and locking bar. No. 1,431,274; Oct. 10.
- Webb, John W., Chicago, Ill. Rail joint. No. 1,432,930; Oct. 24.
- Webb, John W., assignor, by mesne assignments, to Webb Tester Incorporated, Chicago, Ill. Paper and paper-box testing machine. No. 1,413,305; Apr. 18.
- Webb, Martin W. (See Des Rosiers, J. A., and Webb.)
- Webb, Mortimer A., Jr. (See Reeves, L. C., and Webb.)
- Webb, Robert T., St. Louis, Mo., assignor of one-fourth to G. W. Reed, Jr., and one-fourth to L. D. Wyant, Tulsa, Okla. Automatic safety cut-off. No. 1,419,334; June 13.
- Webb Talking Pictures Company, The. (See Stunz, W. P., and Gilbert, assignors.)
- Webb Tester Incorporated. (See Webb, John W., assignor.)
- Webb, Thomas, Ladysmith, British Columbia, Canada. Cable-cutting device. No. 1,419,789; June 13.
- Webb, Thomas E., assignor to Papec Machine Company, Shortsville, N. Y. Shredder knife for ensilage cutters. No. 1,408,850; Mar. 7.
- Webb, Thomas H. (See Rhodes, C. J., and Webb.)
- Webb, Thomas S., Jr., Knoxville, Tenn. Making building blocks. No. 1,403,363; Jan. 10.
- Webb, Walter W., London, England. Oil lamp. No. 1,417,004; May 23.
- Webb, Wilfred L. (See Crossley, K. I., and Webb.)
- Webb, Wilfred L., and K. I. Crossley, Openshaw, Manchester, England. Four-cycle internal-combustion engine. No. 1,407,453; Feb. 21.
- Webb, William R., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose ether solvent and composition. No. 1,418,413; June 6.
- Webb, William R., assignor to Eastman Kodak Company, Rochester, N. Y. Treating films. No. 1,429,179; Sept. 12.
- Webb, William R., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether solvent and composition. No. 1,432,373; Oct. 17.
- Webb, William R., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether solvent and composition. No. 1,432,374; Oct. 17.
- Webb, William R., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether solvent and composition. No. 1,434,465; Nov. 7.
- Webber, Arthur H., Boston, Mass. Carburetor. No. 1,440,321; Dec. 26.
- Webber, Charles F., Pittsburgh, Pa. Valve-operating mechanism. No. 1,437,576; Dec. 5.
- Webber, Rollin F., assignor to Adjuria, Incorporated, Washington, D. C. Kit-holding bracket. No. 1,430,525; Sept. 26.
- Webber, Victor, Cleveland, Ohio. Hinge. No. 1,419,479; June 13.
- Webber, William, La Grange, Ill., assignor to International Harvester Company. Endless apron for harvesters. No. 1,429,470; Sept. 19.
- Webber, William R., Wilsall, Mont. Automobile signal. No. 1,407,826; Feb. 28.
- Weber, Alvin H., Bay City, Mich. Antiskid-chain applying and removing device. No. 1,439,933; Dec. 26.
- Weber, Anton. (See Lebing, William E., assignor.)
- Weber, Bernard F., Chicago, Ill. Building brick. No. 1,425,302; Aug. 8.
- Weber, Bernard F., Chicago, Ill. Hydrocarbon burner. No. 1,434,238; Oct. 31.
- Weber, Bernard F., and F. E. Woodford, Chicago, Ill., said Woodford assignor, by mesne assignments, to R. C. Penfield, New York, N. Y. Conveyer system. No. 1,402,558; Jan. 3.
- Weber, Carl P. (See Garwood, W. C., and Weber.)
- Weber, Clifford A. M., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Single-phase motor. No. 1,433,765; Oct. 31.
- Weber, Clifford A. M., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Constructing secondary members of induction motors. No. 1,435,357; Nov. 14.
- Weber Engine Company. (See Gold, Samuel B., assignor.)
- Weber, Eugene R. (See Diesel, W. F., and Weber.)
- Weber, Frederick S. (See Barbeau, M. L., and Weber.)
- Weber, George A., Stamford, Conn. Nonpuncturable tire. No. 1,423,976; July 25.
- Weber, George A., Stamford, Conn. Nonpuncturable tire. No. 1,423,977; July 25.
- Weber, Gottlieb, assignor, by mesne assignments, to Russell-Weber Steel Products Company, Youngstown, Ohio. Automatic spike-making machine. No. 1,418,500; June 6.
- Weber, Guillaume, Hayange, assignor to Societe Les Petits Fils De Francois De Wendel Et Cie., Paris, France. Explosive. No. 1,406,121; Feb. 7.
- Weber, Guillaume, Hayange, assignor to Société Les Petits Fils de Francois de Wendel et Cie., Paris, France. Receptacle for liquid air. No. 1,424,604; Aug. 1.
- Weber, Guillaume, assignor to the Société Les Petits Fils de Francois de Wendel et Cie., Hayange, Moselle, France. Explosive having liquid air as a base. No. 1,431,711; Oct. 10.
- Weber, Guillaume, Hayange, assignor to Societe Les Petits Fils De Francois De Wendel Et Cie., Paris, France. Blasting charge. No. 1,440,041; Dec. 26.
- Weber, Harold C. (See Lewis, W. K., and Weber.)
- Weber, Henry M., East Orange, N. J., assignor to Ellis-Poster Co. Cumaron-resin chewing gum. No. 1,402,817; Jan. 10.
- Weber, Jacob H., Brooklyn, N. Y. Sound box. No. 1,409,503; Mar. 14.
- Weber, Josiah H., Kitchener, Ontario, Canada. Automobile direction indicator. No. 1,432,000; Oct. 17.
- Weber, Louis, Charlottenburg, assignor to Siemens Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Auricular telephone. No. 1,406,510; Feb. 14.
- Weber, Paul J., Kansas City, assignor of one-half to S. S. May, St. Louis, Mo. Auxiliary air inlet device for internal-combustion engines. No. 1,420,615; June 20.

- Weber, Paul O., Cumberland, Md. Device for rerailling railway rolling stock. No. 1,436,419; Nov. 21.
- Weber, Tobias, Los Angeles, Calif. Coupling. No. 1,411,230; Mar. 28.
- Weber, Tobias, Los Angeles, Calif. Trailer coupling. No. 1,426,134; Aug. 15.
- Weber, Wilhelm, assignor to Firm Gewerkschaft Hausbach II, Wiesbaden, Germany. Apparatus for flushing conduits. No. 1,426,135; Aug. 15.
- Weber, Wilhelm, assignor to Firm Gewerkschaft Hausbach II, Wiesbaden, Germany. Flushing apparatus. No. 1,428,728; Sept. 12.
- Weber, Wilhelm, assignor to Firm Weber & Co. Gesellschaft für Bergbau, Industrie und Bahnbau, Wiesbaden, Germany. Plant for separating coke from waste fuel and residues. No. 1,429,987; Sept. 26.
- Weber, Wilhelm, assignor to Firm Gewerkschaft Hausbach II, Wiesbaden, Germany. Flushing hopper for shallow and deep dredgers. No. 1,429,387; Sept. 19.
- Weber, William G., Ridgefield Park, N. J., assignor to Kops Bros., New York, N. Y. Clasp. No. 1,421,874; July 4.
- Weber & Co. Gesellschaft für Bergbau, Industrie und Bahnbau. (See Weber, Wilhelm, assignor.)
- Webre, Alfred L., Winchester, Mass. Evaporator. No. 1,436,739; Nov. 28.
- Webster, Alfred D., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,438,624; Dec. 12.
- Webster, Arvin C., Detroit, Mich. Spring shackle and forming the same. No. 1,432,648; Oct. 17.
- Webster, Daniel, Abbott, Tex. Motor plow. No. 1,413,437; Apr. 18.
- Webster, David L., Boston, Mass., and H. N. Russell, Princeton, N. J. Drift sight. No. 1,419,335; June 13.
- Webster, David L., Boston, Mass., and H. N. Russell, Princeton, N. J. Drift sight. No. 1,436,924; Nov. 28.
- Webster, Don B., and F. J. Richardson, Indianapolis, Ind. Luminous step. No. 1,439,210; Dec. 19.
- Webster Electric Company. (See Kleckner, Arthur C., assignor.)
- Webster Electric Company. (See Stark, John R., assignor.)
- Webster, Emmett S. (See Smith, C. L., and Webster.)
- Webster, Francis H., St. Louis, Mo. Embroidery needle. No. 1,407,609; Feb. 21.
- Webster, Fred L., Adams, N. Y. Machine for washing and polishing fruit and vegetables. No. 1,407,501; Feb. 21.
- Webster, George O. (See Webster, William S. and G. O.)
- Webster, Harry G., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Telephone-exchange system. No. 1,425,728; Aug. 15.
- Webster, Henry A., Milford, Mass., assignor to American Wringer Company, Woonsocket, R. I. Wringer. No. 1,426,798; Aug. 22.
- Webster, Henry A., Milford, Mass., assignor to G. E. W. Luehrman, St. Louis, Mo. Wringer. No. 1,439,655; Dec. 19.
- Webster, Howard M., Chicago, Ill. Furnace-ashes washer. No. 1,417,645; May 30.
- Webster, Hyleman A., Columbia, Tenn. Fertilizer and making the same. No. 1,420,596; June 20.
- Webster, Joseph S., and H. Hunt, Seattle, Wash. Combined wheel and tire. No. 1,418,854; June 6.
- Webster, Laura F., and R. J. Christianson, St. Helena, Calif. Advertising device. No. 1,414,536; May 2.
- Webster, Lewis E., Wyoming, Pa. Reinforcement for shovel handles. No. 1,410,043; Mar. 21.
- Webster, Neil A., Waucoma, Iowa. Chicken coop. No. 1,426,933; Aug. 22.
- Webster, Oscar A., Edgewood, assignor to Allen Wrench & Tool Company, Providence, R. I. Attachment for vise jaws. No. 1,426,026; Aug. 15.
- Webster Paul W. (See Perry, R. S., Webster, and Boynton.)
- Webster, Paul W., Pelham Manor, N. Y., assignor to Perry & Webster Incorporated, Elizabeth, N. J. Process of and apparatus for treating vaporous and gaseous constituents of fatty oils, gums, resins, and like material. No. 1,438,565; Dec. 12.
- Webster, Ralph C., Haverhill, Mass., assignor to Fritz-Empire Double Pivot Last Company, Auburn, Me. Self-locking last. No. 1,426,428; Aug. 22.
- Webster, Samuel T., St. Louis, Mo., assignor, by mesne assignments, to General Electric Company. Regenerative motor-control system. No. 1,415,284; May 9.
- Webster, Warren, & Company. (See Fitts, James L., assignor.)
- Webster, William L., New York, N. Y. Toothbrush. No. 1,421,875; July 4.
- Webster, William R., Bridgeport, Conn. Making brass and similar alloys. No. 1,426,623; Aug. 22.
- Webster, William S. and G. O., Chicago, Ill. Ventilator. No. 1,420,002; June 20.
- Webster & Perks Tool Company. (See Mitchell, Raymond C., assignor.)
- Weckbaugh, Joseph V., New York, N. Y. Cup. No. 1,421,114; June 27.
- Weddle, Ludie B., Eldorado, Okla. Ring-groove cleaner. No. 1,419,790; June 13.
- Wedemann, Richard, Brunswick, Germany. Corner joint for folding furniture. No. 1,408,553; Mar. 7.
- Wedemann, Richard, Brunswick, Germany. Folding seat convertible into bed. No. 1,429,388; Sept. 19.
- Wedgworth, John K., Cuba, Ala. Rail tie and fastening. No. 1,436,839; Nov. 28.
- Wedig, John H., assignor, by mesne assignments, to Sun Motors Corporation, Granite City, Ill. Internal-combustion engine. No. 1,421,632; July 4.
- Wedit Company, The. (See Landrum, F. H., and Cramer, assignor.)
- Wedge, Gustav B., Chicago, Ill. Lithographing. No. 1,416,311; May 16.
- Wedge, Christian F., Albany, N. Y. Tire carrier. No. 1,404,815; Jan. 31.
- Weed, Edward L., assignor to Potter & Buffinton Company, Providence, R. I. Emblem. No. 1,412,433; Apr. 11.
- Weed, Edward L., assignor to Potter & Buffinton Company, Providence, R. I. Connecting ring. No. 1,421,876; July 4.
- Weed, Fred E., Columbia, Mo. Automatic paper feeder. No. 1,412,323; Apr. 11.
- Weed, Fred E., Columbia, Mo. Paper elevator for printing and folding machines. No. 1,439,535; Dec. 19.
- Weeden, Arthur W., Quincy, Mass., assignor, by mesne assignments, to Weeden, Johnson & Co., Inc. Batting device for baseball game apparatus. No. 1,416,918; May 23.
- Weeden, Arthur W., Quincy, assignor of one-eighth to E. Nilsson, one-eighth to L. N. Nilsson, Newton, and one-eighth to J. C. Anderson, Quincy, Mass. Toy pistol. No. 1,434,668; Nov. 7.
- Weeden, Johnson & Co. (See Weeden, Arthur W.)
- Weeke, Theodore L., Okawville, Ill. Shell. No. 1,417,475; May 23.
- Weeks, Bonzano. (See Walker, D. C., and Weeks.)
- Weeks, Charles S., South Orange, N. J. Labeling machine. No. 1,425,351; Aug. 8.
- Weeks, Edmund G. (See Michie, A. C., and Weeks.)
- Weeks, John B., assignor to The Long Furniture Company, Hanover, Pa. Cabinet for talking machines. No. 1,410,977; Mar. 28.
- Weeks, Joseph B., North Sydney, Nova Scotia, Canada. Gauge for boiler tubes. No. 1,440,322; Dec. 26.
- Weeks, Leo. (See Rasck, G. P., and Weeks.)
- Weeks, Leroy, Nevada, Iowa. System of kilns. No. 1,404,412; Jan. 24.
- Weeks, Palmer D., New York, N. Y. Garment hanger. No. 1,415,747; May 9.
- Weeks Photo-Engraving Company. (See Weeks, Raymond M., assignor.)
- Weeks, Raymond M., Narberth, assignor to Weeks Photo-Engraving Company, Inc., Philadelphia, Pa. Means for suspending plates during treatment by electrolysis. No. 1,427,875; Sept. 5.
- Weeks, Raymond M., Narberth, assignor to Weeks Photo-Engraving Company, Inc., Philadelphia, Pa. Apparatus for electrical etching. No. 1,427,876; Sept. 5.
- Weeks, Raymond M., Narberth, assignor to Weeks Photo-Engraving Company, Inc., Philadelphia, Pa. Process and apparatus for electrical etching. No. 1,427,877; Sept. 5.
- Weeks, Samuel C. (See Brown, W. M., Burton, and Weeks.)
- Weeks, Samuel C. (See Burton, C., Dixon, and Weeks.)
- Weeks, Seba R., and C. C. Brown, Campbell, Calif. Rail joint. No. 1,416,144; May 16.
- Weeks, Thomas J., Montgomery, Mo. Power-transmitting device. No. 1,403,880; Jan. 17.
- Wege, Peter M., Grand Rapids, Mich., and E. Anderson, assignors to Invincible Metal Office Furniture Company, Manitowoc, Wis. Lock for safety-deposit vaults and the like. No. 1,436,925; Nov. 28.
- Wegener, Arnold H. (See Wolff, F. J., and Wegener.)
- Wegener, August F., Ridgewood, N. J. Toy house. No. 1,428,405; Sept. 5.
- Weglein, Louis, Jr., Philadelphia, Pa. Belt joiner. No. 1,437,031; Nov. 28.
- Wegman, Jordan, Creve Coeur, Mo. Liquid-fuel burner. No. 1,420,003; June 20.
- Wegmann, William M., Bladen, Nebr. Differential driving mechanism. No. 1,403,994; Jan. 17.
- Wegner, Julius, New York, N. Y., assignor to Spadone Machine Co. Expansion feed roller. No. 1,402,726; Jan. 3.
- Wegner, William F., assignor of one-half to M. A. Brower, New York, N. Y. Steam boiler. No. 1,408,052; Feb. 28.
- Wego, Peter C., St. Paul, Minn., assignor to Standard Conveyor Company. Conveyor roller. No. 1,425,561; Aug. 15.
- Wegstein, Joseph C., Washburn, Ill. Gear wheel. No. 1,404,816; Jan. 31.
- Weguelin, Harold A. (See Phelan, R. A., and Weguelin.)
- Weginger, Frederick, assignor to Waterbury Clock Co., Waterbury, Conn. Chime clock. No. 1,406,511; Feb. 14.
- Wehl, Morris, Basel, Switzerland. Grating for the hicker-in of cotton carding engines. No. 1,409,627; Mar. 14.
- Wehn, Charles E., Alameda, Calif. Pencil lead. No. 1,411,822; Apr. 4.
- Wehrman, William G., Ludlow, Ky., assignor to C. Keck, Crescent Springs, Ky. Hinge joint. No. 1,419,791; June 13.
- Weibel, Emil A., Fairbank, Iowa. Handle. No. 1,424,052; July 25.
- Weibezahl, Herman, Orange, N. J. Safety device for platen presses. No. 1,410,433; Mar. 21.

Alphabetical list of patentees—Continued.

- Weibull, Ernst H. W., assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Ball or roller cage for antifriction ball or roller thrust bearings. No. 1,415,420; May 9.
- Weibull, Nils R. M., Bofors, Sweden. Divided pulley. No. 1,417,960; May 30.
- Weichold, Charles F., Worthington, Ohio. Footing for cellar walls. No. 1,430,423; Sept. 26.
- Weichsel, Hans, assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Dynamo-electric machine. No. 1,411,393; Apr. 4.
- Weide, Hans, Brooklyn, N. Y. Holder for talking-machine records. No. 1,420,004; June 20.
- Weidel, Arno, Charlottenburg-Westend, assignor to Firm Chemische Fabrik auf Actien (vormals E. Schering), Berlin, Germany. Production of alkali-metal bromides. No. 1,437,740; Dec. 5.
- Weidely, George A., Indianapolis, Ind. Adjustable worm drive. No. 1,407,904; Feb. 28.
- Weidenfeller, Patrick Aberdeen, S. Dak. Oilproof piston ring. No. 1,426,694; Aug. 22.
- Weidenthal, Harold G., deceased, Cleveland, Ohio; Louise S. Weidenthal, administratrix. Furnace. No. 1,410,086; Mar. 21.
- Weidenthal, Harold G., Cleveland, Ohio, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Electric furnace. (Reissue.) No. 1,5378; June 6.
- Weidenthal, Louise S., administratrix. (See Weidenthal, Harold G.)
- Weidlich Bros. Mfg. Co., The. (See Weidlich, L., and Flauder, assignors.)
- Weidlich, Louis, and A. J. Flauder, assignors to The Weidlich Bros. Mfg. Co., Bridgeport, Conn. Incense burner and perfumer. No. 1,421,633; July 4.
- Weidmüller, Johannes, Chemnitz, Germany. Fabric-covered button. No. 1,434,077; Oct. 31.
- Weldrick, Louie T., Baltimore, Md. Electric heating device. No. 1,432,505; Oct. 17.
- Weigel, Philip A., Riverton, N. J. Means for converting lace shoes to button shoes. No. 1,428,619; Sept. 12.
- Weigel, Philip A., Riverton, N. J. Shock-absorbing stabilizing device for automobiles. No. 1,439,346; Dec. 19.
- Weightman, Charles W., assignor of one-half to J. A. McClain, Carlisle, Pa. Manure spreader. No. 1,425,729; Aug. 15.
- Weightman Metal Manufacturing Company. (See Weightman, William C., assignor.)
- Weightman, William A., and C. H. Nitsch, Philadelphia, assignors to Stokes & Smith Company, Summerdale, Pa. Apparatus for producing sealed wrapped packages. No. 1,426,429; Aug. 22.
- Weightman, William A., and C. H. Nitsch, Philadelphia, assignors to Stokes & Smith Company, Summerdale, Pa. Coating-machine-cleaning apparatus. No. 1,433,976; Oct. 31.
- Weightman, William A., and C. H. Nitsch, Philadelphia, assignors to Stokes & Smith Company, Summerdale, Philadelphia, Pa. Gluing machine. No. 1,437,285; Nov. 28.
- Weightman, William C., Greensburg, Pa., assignor to Weightman Metal Manufacturing Company. Machine for manufacturing metal lath. No. 1,412,434; Apr. 11.
- Weightman, William C., Greensburg, Pa., assignor to Weightman Metal Manufacturing Company. Expanded-metal machine. No. 1,436,554; Nov. 21.
- Weigle, Otis M., Fulton, Mo. Detergent. No. 1,407,502; Feb. 21.
- Weibe, Alfred H., Baekkelaget, near Christiania, Norway. Combined washing, rinsing, and wringing machine. No. 1,424,605; Aug. 1.
- Weikert, Bernard D. (See Beitzell, A. F., and Weikert.)
- Weil, Edward L., Kearny, N. J. Valve remover. No. 1,426,799; Aug. 22.
- Weil, Leopold, Hamburg, Germany. Producing high-percentage pure anthracene. No. 1,419,186; June 13.
- Weil, Morton M., assignor to S. H. Frank, Scranton, Pa. Collar. No. 1,434,258; Oct. 31.
- Weil, Morton M., assignor to S. H. Frank, Scranton, Pa. Collar. No. 1,434,259; Oct. 31.
- Weil, Morton M., assignor to S. H. Frank, Scranton, Pa. Collar. No. 1,434,260; Oct. 31.
- Weill, Melville K., Brooklyn, and M. L. Cornell, New York, assignors to Beech-Nut Packing Company, Canajoharie, N. Y. Method of and apparatus for separating metal from paper. No. 1,406,252; Feb. 14.
- Weilman, Melville S., Cincinnati, Ohio. Drying and conveying machine. No. 1,411,247; Mar. 28.
- Weimann, Jens, Odense, Denmark. Robe and the like. No. 1,403,661; Jan. 17.
- Weimar, Conrad S., Elizabeth, N. J. Antiskid chain anchor. No. 1,414,846; May 2.
- Weimar, Michael P., Philadelphia, Pa. Automatic barrel-painting machine. No. 1,436,223; Nov. 21.
- Weimer, George S., Augusta, Ky. Turnbutton fastener. No. 1,412,097; Apr. 11.
- Weinacht, Rudolf J., New York, N. Y. File envelope. No. 1,438,152; Dec. 5.
- Weinberg, Charles, Brooklyn, N. Y. Automobile fender. No. 1,427,878; Sept. 5.
- Weinberg, Lowell C., Dayton, Ohio. Device for landing and retaining airplanes. No. 1,432,815; Oct. 24.
- Weinberg, Solomon, Philadelphia, Pa., assignors, by mesne assignments, to The United States Wool Company, Denver, Colo. Producing potassium ferrocyanide, potassium cyanide, potassium carbonate, and related products. No. 1,405,371; Jan. 31.
- Weinberg, William, Chicago, Ill. Tester for electrical devices. No. 1,429,002; Sept. 12.
- Weinberger, Benjamin, assignor to Marx & Haas Clothing Co., St. Louis, Mo. Driving mechanism for sewing machines. No. 1,413,083; Apr. 18.
- Weinel, Karl, assignor to Treyn Brassert & Company, Chicago, Ill. Chimney valve. No. 1,420,397; June 20.
- Weiner, Ada, Everett, Mass. Combination toilet article. No. 1,427,040; Aug. 22.
- Weinerth, George S., Reading, Pa. Circular-knitting machine. No. 1,406,514; Feb. 14.
- Weingar, William H., West Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Angle block. No. 1,428,509; Sept. 5.
- Weingarten, Morris, New York, N. Y. Adjustable footstool. No. 1,402,698; Jan. 3.
- Weinhart, Howard W., Elizabeth, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. No. 1,419,528; June 13.
- Weinhart, Howard W., Elizabeth, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric discharge device. No. 1,432,931; Oct. 24.
- Weinheim, Emil, New York, N. Y. Automatically-fed embossing press. No. 1,432,001; Oct. 17.
- Weinman, Milton, Chicago, Ill. Waste basket. No. 1,427,879; Sept. 5.
- Weinmann, Frederick, Lansing, Mich. Apparatus for trapping bank robbers. No. 1,406,788; Feb. 14.
- Weinrich, Isidore, Brooklyn, N. Y. Fastening device. No. 1,413,082; Apr. 18.
- Weinschenk, Sampson, Chicago, Ill. Mattress. No. 1,418,501; June 6.
- Weinschenk, Sampson, Chicago, Ill. Combined mattress and cover. No. 1,438,731; Dec. 12.
- Weinstein, Bernard, Los Angeles, Calif. Vehicle direction indicator. No. 1,428,729; Sept. 12.
- Weinstein, Louis J., New York, N. Y., assignor to The J. M. Ney Company, Hartford, Conn. Lingual bar. No. 1,433,766; Oct. 31.
- Weinstein, Maurice N., East Cleveland, Ohio. Cleaner and gauge for winding machines. No. 1,434,938; Nov. 7.
- Weinstein, Morris B., Steubenville, Ohio. Bag fastener. No. 1,431,712; Oct. 10.
- Weintraub, Ezechiel, New York, N. Y. Electrical resistor. No. 1,415,748; May 9.
- Weintraub, Ezechiel, New York, N. Y., assignor to General Electric Company. Preparing catalyzing material. No. 1,423,978; July 25.
- Weintz, William L., assignor to J. E. Porter Corporation, Ottawa, Ill. Gate latch. No. 1,429,389; Sept. 19.
- Weir, Roy W., and W. Lowery, assignors to Marvel Company, Hammond, Ind. Suction sweeper. No. 1,437,577; Dec. 5.
- Weirich, Peter J., Adams, Wis. Vehicle wheel. No. 1,436,840; Nov. 28.
- Weirich, Peter J., Adams, Wis. Vehicle wheel. No. 1,436,841; Nov. 28.
- Weis, Andrew L., assignor to The Weis Fibre Container Corporation, Monroe, Mich. Open-end fiber container. No. 1,432,932; Oct. 24.
- Weis, Andrew L., assignor to The Weis Fibre Container Corporation, Monroe, Mich. Paper box or similar container. No. 1,433,439; Oct. 24.
- Weis, Andrew L., assignor to The Weis Manufacturing Company, Monroe, Mich. Filing device for talking-machine records. No. 1,435,036; Nov. 7.
- Weis Fibre Container Corporation, The. (See Weis, Andrew L., assignor.)
- Weis Fibre Container Corporation, The. (See Wiesman, Frank J., assignor.)
- Weis, Henry, Manufacturing Company. (See Lewis, Harvey H., assignor.)
- Weis, John A., and F. J. Knorr, New York, N. Y.; said Knorr assignor to said Weis. Airplane. No. 1,427,665; Aug. 29.
- Weis, John P., Nyack, N. Y., assignor of one-half to Metropolitan Sewing Machine Corporation, Dover, Del. Work-holding foot mechanism. No. 1,419,087; June 6.
- Weis, John P., Nyack, N. Y., assignor of one-half to Metropolitan Sewing Machine Corporation, Dover, Del. Overstitch mechanism. No. 1,419,088; June 6.
- Weis, John P., Nyack, N. Y., assignor of one-half to Metropolitan Sewing Machine Corporation, Dover, Del. Sewing machine. No. 1,439,211; Dec. 19.
- Weis Manufacturing Company, The. (See Weis, Andrew L., assignor.)
- Weisberg, Aaron, Pueblo, Colo. Automobile signal. No. 1,411,392; Apr. 4.
- Weisberg, Aaron, Brooklyn, N. Y. Tire armor. No. 1,439,590; Dec. 19.
- Weisberg, Louis, Grantwood, N. J., assignor to The Barrett Company. Resin-shellac composition. No. 1,413,144; Apr. 18.
- Weisberg, Louis, Grantwood, N. J., assignor to The Barrett Company. Resin-shellac composition. No. 1,413,145; Apr. 18.
- Weisberg, Louis, and R. S. Potter, Grantwood, N. J., assignors to The Barrett Company. Polyglycerol resin. No. 1,424,137; July 25.

- Weisel, Oscar W. (See Fisher, Raymond, assignor.)
- Weisenberger, Jacob, assignor to Corning Glass Works, Corning, N. Y. Initial puff mechanism for glass-blowing machines. No. 1,410,857; Mar. 28.
- Weisman, Adam. (See Plochocki, Antony, assignor.)
- Weisman, Ralph. (See Weissman, S., and Weisman.)
- Weissmann, Arnold O., Chicago, Ill. Trimming knife. No. 1,411,651; Apr. 4.
- Weiss, Abraham, New York, N. Y. Suction grinding and polishing machine. No. 1,408,851; Mar. 7.
- Weiss, Abraham, New York, N. Y. Shoe heel. No. 1,409,983; Mar. 21.
- Weiss, Albert, Basserdorf, Zurich, assignor to Firm Swiss Maschine-Tool Works, Oerlikon, Oerlikon, Switzerland. Lathe-bed construction. No. 1,406,789; Feb. 14.
- Weiss, Albert T., Rochester, N. Y. Wire-bending machine. No. 1,429,814; Sept. 19.
- Weiss, Benjamin M. (See Wright, Walter, assignor.)
- Weiss, Charles R., Indianapolis, Ind., and C. B. Morrish, Philadelphia, Pa., assignors to Link-Belt Company, Chicago, Ill. Automatic oiler for chains. No. 1,418,892; June 6.
- Weiss, David, New York, N. Y. Stringing pearls and the like. No. 1,428,348; Sept. 5.
- Weiss, George C., Oakland, Calif. Amusement device. No. 1,406,431; Feb. 14.
- Weiss, Harry A. (See Hartzell, W. N., and Weiss.)
- Weiss, Herman W., Monroe, Mich. Wrist tablet. No. 1,407,239; Feb. 21.
- Weiss, Howard F., assignor to C. F. Burgess Laboratories, Madison, Wis. Method and apparatus for transforming wood. (Reissue.) No. 15,316; Mar. 21.
- Weiss, John M., New York, N. Y., assignor to The Barrett Company. Distillation process and product thereof. No. 1,418,893; June 6.
- Weiss, Morris L., Brooklyn, N. Y., assignor to Dovan Chemical Corporation, Wilmington, Del. Vulcanization accelerator. No. 1,411,231; Mar. 28.
- Weiss, Morris L., Brooklyn, N. Y., assignor to Dovan Chemical Corporation, Wilmington, Del. Making diphenylguanidine. No. 1,422,506; July 11.
- Weiss, Pauline B., New York, N. Y. Boll-weevil destroyer. No. 1,426,234; Aug. 15.
- Weiss, Simon. (See Eastwick, T. S., and Weiss.)
- Weiss, William, Bayonne, N. J. Safety envelope and opener. No. 1,427,666; Aug. 29.
- Weiss, William P., Bloomsburg, Pa. Educational apparatus. No. 1,417,434; May 23.
- Weissenborn, Oscar A., et al. (See Kolling, Charles H., assignor.)
- Weissheier, William, Brooklyn, N. Y. Nursing bottle and nipple protector. No. 1,421,877; July 4.
- Weissman, Samuel, and R. Weisman, Detroit, Mich. Side thrust support for spring-bed bottoms. No. 1,415,068; May 9.
- Weith, Archie J. (See Redman, L. V., Weith, and Brock.)
- Weitzel, Harry K. (See Rocheville, Charles F., assignor.)
- Weizmann, Charles, London, England. Fermentation process for the production of acetone and butyl alcohol. No. 1,437,697; Dec. 5.
- Weizmann, Charles, and D. A. Legg, London, England. Production of secondary butyl alcohol. No. 1,408,320; Feb. 28.
- Welbon, Hugh H. (See Rees, Frank W., assignor.)
- Welch, Chester A., et al. (See Smith, James H., assignor.)
- Welch, Corwin R., et al. (See New Comer, Daniel A., assignor.)
- Welch, Francis C., Beverly, Mass. Improving the quality of masons' hydrated lime. No. 1,410,087; Mar. 21.
- Welch, Harry J., Grafton, Ohio. Brooder. No. 1,410,632; Mar. 28.
- Welch, Harvey V., assignor to International Precipitation Company, Los Angeles, Calif. The recovery of metallic values from slag. No. 1,414,491; May 2.
- Welch, Horace H., Milwaukee, Wis. Electrical recorder. No. 1,404,332; Jan. 24.
- Welch, Horace H., Milwaukee, Wis. Recording system. No. 1,412,586; Apr. 11.
- Welch, Horace H., Chicago, Ill. Gem. No. 1,421,329; June 27.
- Welch, Horace H., Detroit, Mich., assignor, by mesne assignments, to Stromberg Motor Devices Company, Chicago, Ill. Carburetor. No. 1,405,700; Feb. 7.
- Welch, Howard C. (See Stipes, R. B., Goodwin, and Welch.)
- Welch, Isaac T., Council Bluffs, Iowa. Perpetual-flower urn. No. 1,427,180; Aug. 29.
- Welch, Jack T., Dowagiac, Mich., assignor to James Heddon's Sons, Fishing reel. No. 1,434,976; Nov. 7.
- Welch, James G., assignor of one-fourth to J. Sinclair, one-fourth to H. J. Cross, and one-fourth to W. Aitchison, Detroit, Mich. Mail-bag catching and delivering apparatus. No. 1,430,605; Oct. 3.
- Welch, James M., Lakeport, Calif. Pole anchor. No. 1,438,074; Dec. 5.
- Welch, James S., Houston, Tex. Mop. No. 1,420,169; June 20.
- Welch, Jesse C., Tacoma, Wash. Amusement device. No. 1,406,705; Feb. 14.
- Welch, Jesse C., Tacoma, and W. F. Altenbaugh, Yeoman, Wash.; said Altenbaugh assignor to said Welch. Vehicle wheel. No. 1,406,122; Feb. 7.
- Welch, John R., Muncie, Ind. Metal wheel spoke. No. 1,438,882; Dec. 12.
- Welch, John T., assignor to James Heddon's Sons, Dowagiac, Mich. Line-distributing device for reels. No. 1,438,007; Dec. 5.
- Welch, Louis A.; Camden, N. J. Temporary rail joint. No. 1,420,070; June 20.
- Welch, Walter H., Bristol, assignor to Harvey Frost & Company, Limited, London, England. Electrical cut-out operated by fluid pressure. No. 1,428,463; Sept. 5.
- Welcker, Paul H., assignor to Brown & Bigelow, St. Paul, Minn. Pocket case. No. 1,414,798; May 2.
- Welcker, Paul H., assignor to Brown & Bigelow, St. Paul, Minn. Collapsible easel. No. 1,427,880; Sept. 5.
- Weld Tire and Rubber Company, The. (See Hamnett, Granville S., assignor.)
- Weiden, Andrew J., Griffin, Ga. Pump. No. 1,439,591; Dec. 19.
- Weldless Chain Corporation. (See Cowles, William B., assignor.)
- Weldon, Thomas E. (See Sarlls, Theodore, assignor.)
- Weldon, Williams, and Lick. (See Lick, Capitiles A., assignor.)
- Weldy, Arthur S., Cleveland, Ohio. Leaf-hinge device for account registers. No. 1,415,212; May 9.
- Welger, Gottfried, Seehausen, Germany. Apparatus for baling loose materials. No. 1,409,128; Mar. 7.
- Welger, Gottfried, Seehausen, Germany. Baling press. No. 1,412,021; Apr. 4.
- Weliszek, Joseph. (See Obach, Kazimierz A., assignor.)
- Welker, Joseph F. (See Welker, Oscar P. and J. F., assignors.)
- Welker, Oscar P. and J. F., St. Louis, Mo. Folding crib bed. No. 1,402,328; Jan. 3.
- Weller, Edward. (See Scholz, J. G., and Weller.)
- Weller, George R., Mount Pulaski, Ill. Seed-corn-testing implement. No. 1,411,823; Apr. 4.
- Weller, Henry. (See Barry, James, assignor.)
- Weller, Lynn E., Macy, Ind. Wire-fence clamp. No. 1,426,527; Aug. 22.
- Wellersdick, Joseph. (See McGilvray, J. W., and Wellersdick.)
- Wellert, Anton, Binghamton, N. Y. Magnet fire-alarm system. No. 1,424,963; Aug. 8.
- Welles, Charles E., Phelan, Calif. Fire-resisting composition. No. 1,436,618; Nov. 21.
- Welling, Conrad A., St. Louis, Mo. Internal-combustion-engine governor. No. 1,411,650; Apr. 4.
- Welling, William M. (See Rhoades, P. E., and Welling.)
- Wellington, Arthur W., and A. F. Ryan, San Jose, Calif. Pump. No. 1,424,964; Aug. 8.
- Wellington, Arthur W., assignor to The Chase Companies, Inc., Waterbury, Conn. Flash light or battery hand lamp. No. 1,429,261; Sept. 19.
- Wellington, John M., and D. G. Mackenzie, Ilford, England. Grab. No. 1,416,768; May 23.
- Wellman Company. (See Patten, Ernest L., assignor.)
- Wellman, Otto H., Dubuque, Iowa. Railway-car truck. No. 1,408,321; Feb. 28.
- Wellman-Seaver-Morgan Company. (See Case, Arthur F., assignor.)
- Wellman-Seaver-Morgan Company, The. (See Collins, Glenville A., assignor.)
- Wellman-Seaver-Morgan Company, The. (See Hoffman, C. C., and McCaslin, assignor.)
- Wellman-Seaver-Morgan Company, The. (See Rogers, J. F., and McClimon, assignors.)
- Wellman-Seaver-Morgan Company. (See Rogers, John F., assignor.)
- Wells, Albert A., Detroit, Mich. Aeroplane. No. 1,414,241; Apr. 25.
- Wells, Alfred A., Montclair, N. J., assignor, by mesne assignments, to National Carbon Company, Inc., New York, N. Y. Preparing manganese-containing bodies. No. 1,412,986; Apr. 18.
- Wells, Alfred A., Montclair, N. J., assignor, by mesne assignments, to S. B. Hunt, trustee, Mount Kisco, N. Y. Making unsaturated hydrocarbon material. No. 1,418,414; June 6.
- Wells, Andrew, East Akron, Ohio. Golf bag. No. 1,409,323; Mar. 14.
- Wells, Clayton F., Chicago, Ill. Molding machine. No. 1,431,608; Oct. 10.
- Wells, Elbie, Hamilton, Ohio. Tool. No. 1,414,847; May 2.
- Wells, Frank E. (See Wells, Willet C. and F. E.)
- Wells, Frederick H., Boonton, N. J. Valve-operating mechanism. No. 1,410,787; Mar. 28.
- Wells, George F., San Francisco, Calif. Electrical cooking utensil. No. 1,487,122; Nov. 28.
- Wells, George W., assignor to Powow Manufacturing Company, Amesbury, Mass. Window regulator. No. 1,421,330; June 27.
- Wells, George W., assignor to Powow Manufacturing Company, Amesbury, Mass. Window regulator. No. 1,429,120; Sept. 12.
- Wells, George W., assignor to Powow Manufacturing Company, Amesbury, Mass. Eye shade for motor-car drivers. No. 1,437,208; Nov. 28.
- Wells, Harold D., Glens Falls, N. Y. Sulphur-burning apparatus. No. 1,422,801; July 11.
- Wells, Harry D., Chicago, Ill. Toy aeroplane. No. 1,430,606; Oct. 3.
- Wells, Hewitt L., assignor to T-Beam Engineering Company, Washington, D. C. Concrete floor construction. No. 1,430,424; Sept. 26.

Alphabetical list of patentees—Continued.

- Wells, John, Cairo, Egypt. Gas producer. No. 1,422,643; July 11.
- Wells, John T., Montreal, Quebec, Canada. Cinematograph apparatus. No. 1,438,278; Dec. 12.
- Wells, Joseph P., assignor to Wheeling Can Company, Wheeling, W. Va. Combined friction-top and wax-sealed can. No. 1,432,506; Oct. 17.
- Wells, Ralph J., Dayton, Ohio. Joint rest for railway rails. No. 1,413,084; Apr. 18.
- Wells, Ralph J., Dayton, Ohio. Railway tie. No. 1,413,085; Apr. 18.
- Wells, Robert G., Marple, England. Internal-combustion engine. No. 1,424,965; Aug. 8.
- Wells, Samuel A., La Grande, Oreg. Tool for removing wheels, etc., from their axles. No. 1,412,324; Apr. 11.
- Wells, Samuel G., Chicago, Ill. Switch lock. No. 1,406,790; Feb. 14.
- Wells, Victor L. (See Whittle, Mark A., assignor.)
- Wells, Willet C. and F. E., Columbus, Ohio. Filtering vapors. No. 1,433,050; Oct. 24.
- Wells, Willet C. and F. E., Columbus, Ohio. Obtaining oils, pitch, and the like from shales, coal, wood, and other materials. No. 1,433,051; Oct. 24.
- Wells, Willet C. and F. E., Columbus, Ohio. Refining petroleum, shale oil, coal tar, and the like, commonly classified as hydrocarbons. No. 1,433,052; Oct. 24.
- Wells, William S., South Bethlehem, Pa., assignor to Benjamin Eastwood Company, Paterson, N. J. Warming machine. No. 1,409,129; Mar. 7.
- Wells, William S., South Bethlehem, Pa., assignor to Benjamin Eastwood Company, Paterson, N. J. Loom. No. 1,428,406; Sept. 5.
- Wels, Franz, Vienna, Austria. Power-transmission mechanism. No. 1,429,815; Sept. 19.
- Welsbach Company. (See Antrim, William D., assignor.)
- Welser, George B., jr., assignor to Chain Belt Company, Milwaukee, Wis. Liquid-screening apparatus. No. 1,435,770; Nov. 14.
- Welsh, Charley H., Norman Township, Grundy County, Ill. Road grader. No. 1,425,303; Aug. 8.
- Welsh, Clyde L., Pittsburgh, Pa. Feed guide for printing presses. No. 1,403,662; Jan. 17.
- Welsh, David E., Los Angeles, Calif. Amusement device. No. 1,432,224; Oct. 17.
- Welsh, Edward, Wausau, Wis. Garden marker for rakes. No. 1,417,705; May 30.
- Welsh, Frank N., Chicago, Ill. Wrench. No. 1,408,667; Mar. 7.
- Welsh, James. (See Donley, F. S., and Welsh.)
- Welsh, Louise P., Gulfport, Fla. Artificial flower. No. 1,413,438; Apr. 18.
- Welsh, Wilbert L. (See Genung, G. J., and Welsh.)
- Welte-Mignon Corporation. (See Bockisch, Heinrich, assignor.)
- Welter, Grover C., Roswell, N. Mex. Bow. No. 1,418,218; May 30.
- Weltner, Corliss L., Looneyville, W. Va. Electric motor. No. 1,421,634; July 4.
- Welton, George W., Sr., Bridgeport, Nebr. Beet harvester. No. 1,403,929; Jan. 17.
- Welton, James E., Bradford, Vt. Low-speed-pedal holder for automobiles. No. 1,436,842; Nov. 28.
- Wemp, Ernest E. (See Kishline, Floyd E., assignor.)
- Wempner, Charles M., assignor to St. Louis Brass Manufacturing Company, St. Louis, Mo. Lighting fixture. No. 1,413,439; Apr. 18.
- Wencker, Gustave, St. Louis, Mo. Device for cleaning motors. No. 1,434,640; Nov. 7.
- Wendel, Ada B., Smithland, Iowa. Window-curtain support. No. 1,406,311; Feb. 14.
- Wendel, Adolph, Spencer, Wis. Hay loader. No. 1,418,997; June 6.
- Wendelken, Richard. (See Cox, J. J., and Wendelken.)
- Wendelken, Richard, assignor, by mesne assignments, to J. Winter, New York, N. Y. Carburetor. No. 1,413,440; Apr. 18.
- Wenderhold, William, New York, N. Y., assignor to Cru Patents Corporation. Threading and looping device. No. 1,402,273; Jan. 3.
- Wenderhold, William, New York, N. Y., assignor to Cru Patents Corporation. Safety drive for motion-picture apparatus. No. 1,402,274; Jan. 3.
- Wenderhold, William, New York, N. Y., assignor to Cru Patents Corporation. Motion-picture-shutter-adjusting mechanism. No. 1,407,905; Feb. 28.
- Wenderhold, William, New York, N. Y., assignor, by mesne assignments, to Cru Patents Corporation. Projection slide carrier. No. 1,407,906; Feb. 28.
- Wenderhold, William, New York, N. Y., assignor, by mesne assignments, to Cru Patents Corporation. Electric-arc lamp. No. 1,431,202; Oct. 10.
- Wenderhold, William, New York, N. Y., assignor to Cru Patents Corporation. Electrical connection clamp. No. 1,437,209; Nov. 28.
- Wenderhold, William, New York, N. Y., assignor, by mesne assignments, to Cru Patents Corporation. Lens support. No. 1,439,775; Dec. 26.
- Wendling, Frederick, Edmonton, Alberta, Canada. Cooling system for internal-combustion motors. No. 1,433,440; Oct. 24.
- Wendling, George X., San Francisco, Calif. Lug box. No. 1,438,468; Dec. 12.
- Wendt, Charles A., Milwaukee, Wis. Return-chute recovery tray. No. 1,406,593; Feb. 14.
- Wendt, Gustave A., Spokane, Wash. Automobile head light. No. 1,403,528; Jan. 17.
- Wendt, Gustave A., assignor of one-half to C. A. Larson, Spokane, Wash. Cream separator. No. 1,432,816; Oct. 24.
- Wendt, John F., Cleveland, Ohio. Wall protector or shield. No. 1,411,462; Apr. 4.
- Wendtland, William, Sr., Shiner, Tex. Lister plow. No. 1,410,233; Mar. 21.
- Wenger, Aaron, Bayonne, N. J. Floor-oiling machine. No. 1,406,123; Feb. 7.
- Wenger, Aaron, Bayonne, N. J. Attachment for wipers or squeegees. No. 1,413,441; Apr. 18.
- Wenger, Aaron, Bayonne, N. J. Phonograph-record holder. No. 1,415,749; May 9.
- Wenger, Aaron, Bayonne, N. J. Hairpin. No. 1,429,816; Sept. 19.
- Wenger, Arthur W. (See Rodgers, C. M., and Wenger.)
- Wenger, Edgar, and C. E. Rodin, Calgary, Alberta, Canada. Air pump. No. 1,434,418; Nov. 7.
- Wenger, Edgar I., Glenellyn, Ill. High-speed tool. No. 1,424,536; Aug. 1.
- Wenk, George L., Mechanicsburg, Pa. Vehicle signal. No. 1,418,042; May 30.
- Wenman, Frederick A., Brooklyn, N. Y. Finder. No. 1,406,124; Feb. 7.
- Wennerby, Arthur O. L., Halmstad, Sweden. Two or multi cylinder internal-combustion engine. No. 1,413,415; June 6.
- Wennerstrom, Charles J., York, Pa. Means for insulating electrical conductors. No. 1,432,933; Oct. 24.
- Wennerström, Ernst J. T., assignor to Aktiebolaget Bofors, Bofors, Sweden. Percussion fuse. No. 1,440,191; Dec. 26.
- Wenrich, Herbert E., Berwick, Pa. Game. No. 1,414,106; Apr. 25.
- Wensley, Roy J., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Hot-cathode apparatus. No. 1,408,053; Feb. 28.
- Wenstrom, Harry E. (See Leonard, H. C., and Wenstrom.)
- Wente, Edward C., assignor to Western Electric Company, Incorporated, New York, N. Y. Piezo-electrical voltage indicator. No. 1,438,974; Dec. 19.
- Wenterwest, Joseph F., Lebanon, assignor of one-half to J. M. McDermott, New Butler, Wis. Rail anchor. No. 1,406,594; Feb. 14.
- Wentworth, Frank V., Los Angeles, Calif. Radiator construction. No. 1,426,235; Aug. 15.
- Wentworth, Jesse S., Sturgis, Mich. Container-forming machine. No. 1,402,818; Jan. 10.
- Wentworth, Philip C., Providence, R. I. Ring traveler. No. 1,415,069; May 9.
- Wentworth, Philip C., Providence, R. I. Ring traveler. No. 1,415,070; May 9.
- Wentworth, Philip C., Providence, R. I. Ring traveler. No. 1,415,071; May 9.
- Wentworth, Philip C., Providence, R. I. Twisting traveler. No. 1,415,072; May 9.
- Wentworth, Philip C., Providence, R. I. Ring traveler. No. 1,415,073; May 9.
- Wentworth, Ralph A., assignor to Slipper City Wood Heel Company, Haverhill, Mass. Wood heel. No. 1,435,677; Nov. 14.
- Wentworth, William, New York, N. Y. Electric riveting device. No. 1,403,529; Jan. 17.
- Wentz, Jere L., Passaic, N. J. Conveying belt. No. 1,422,398; July 11.
- Wentz, Jere L., assignor to Portable Machinery Co. Inc., Passaic, N. J. Conveying belt. No. 1,432,002; Oct. 17.
- Wenzel, Frank, Albany, N. Y. Identification marking for automobiles. No. 1,438,676; Dec. 12.
- Weizelmann, Gustave, Galesburg, Ill. Scale. No. 1,419,336; June 13.
- Wenzowitz, Michael, Chicago, Ill. Tire chain. No. 1,414,848; May 2.
- Wepplö, Isaac W., Chicago, Ill. Locking jaws. No. 1,411,824; Apr. 4.
- Wepplö, Isaac W., Chicago, Ill. Pump. No. 1,415,617; May 9.
- Wepplö, Isaac W., Chicago, Ill. Tube-closing machine. No. 1,422,644; July 11.
- Werber, Philip J., St. Louis, Mo. Telephone attachment. No. 1,404,817; Jan. 31.
- Werder, Paul, assignor to The Instant Freezer Company, Springfield, Mass. Freezing machine for foodstuffs and beverages. No. 1,434,174; Oct. 31.
- Werhan, Alfred B., Akron, Ohio. Fading in and out shutter for picture-projecting apparatus. No. 1,403,364; Jan. 10.
- Werle, Peter. (See Brower, L. N., and Werle.)
- Werle, Philip. (See Bye, K., and Werle.)
- Werner, Carrie, St. Louis, Mo. Sifter. No. 1,416,145; May 16.
- Werner, Edward H., Chicago, Ill. Train-control apparatus. No. 1,438,279; Dec. 12.
- Werner, Edward M., assignor to The Hoynesite Explosives Company, Cleveland, Ohio. Explosive composition and the manufacture thereof. No. 1,430,272; Sept. 26.
- Werner, Ernest E., St. Louis, Mo. Producing emulsoids. No. 1,406,791; Feb. 14.
- Werner, Ernest E., St. Louis, Mo. Apparatus for producing emulsions. No. 1,438,733; Dec. 12.
- Werner, Eugene, and D. J. Nierzwicki, Detroit, Mich. Drill head. No. 1,410,147; Mar. 21.

- Werner, Fred L., Sandusky, Ohio. Garment supporter. No. 1,413,696; Apr. 25.
- Werner, John, & Sons, Inc. (See Werner, Theodore, assignor.)
- Werner, John F. (See Kissel, W. L., and Werner.)
- Werner, Leo J., Arlington, assignor to Splitdorf Electrical Company, Newark, N. J. Distributor and means for mounting the same. No. 1,411,073; Mar. 28.
- Werner, Paul, St. Louis, Mo. Fastener. No. 1,417,286; May 23.
- Werner, Theodore, assignor to John Werner & Sons, Inc., Rochester, N. Y. Sirup cooler. No. 1,419,337; June 13.
- Werner, William J., New York, N. Y. Scraper guard and sharpener. No. 1,412,728; Apr. 11.
- Werner, William J., New London, Wis. Jack. No. 1,414,004; Apr. 25.
- Wernery, Lester A., Brooklyn, N. Y., assignor to B. C. Stickney, Elizabeth, N. J. Index. No. 1,440,119; Dec. 26.
- Wernette, Adolph J., Glendale, Calif. Building construction. No. 1,439,494; Dec. 19.
- Wernicke-Hatcher Pump Company. (See Hatcher, William A., assignor.)
- Wernig, Frederick A., Brooklyn, N. Y. Automobile bumper. No. 1,410,353; Mar. 21.
- Wernig, Frederick A., Brooklyn, N. Y., assignor to New York Wire & Spring Company. Automobile bumper. No. 1,424,699; Aug. 1.
- Wernli, Gustav. (See Maurer, E., and Wernli.)
- Wernlund, Christian J. (See Proctor, C. H., and Wernlund.)
- Wernz, Louis P., Louisville, Ky. Sanitary vegetable bin. No. 1,402,462; Jan. 3.
- Wersell, Charles J., Norwood, Ohio, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Wire-stripping machine. No. 1,433,320; Oct. 24.
- Wershow, Jacob, New Haven, Conn. Preparation of medicinal substances and making the same. No. 1,404,673; Jan. 24.
- Werstler, Roy N., Hartsville, Ohio. Irrigation apparatus. No. 1,410,434; Mar. 21.
- Wert, Albert R., North Yakima, Wash. Tire-repair tool. No. 1,439,774; Dec. 26.
- Wert, William W., Dayton, Ohio. Aeroplane. No. 1,418,502; June 6.
- Werthenberger, Enos, Laketon, Ind. Tractor. No. 1,421,635; July 4.
- Werth, George F., assignor to Canedy-Otto Mfg. Co., Chicago Heights, Ill. Motor stand. No. 1,409,266; Mar. 14.
- Werth, Karl. (See Ullmann, Max, assignor.)
- Wertheimer, Leo J., New York, N. Y. Heating bag. No. 1,434,576; Nov. 7.
- Wertheimer, Sydney B., Brooklyn, N. Y. Vanity case and bouquet holder. No. 1,418,760; June 6.
- Wertman, William T., Minneapolis, Minn. Harrow. No. 1,424,966; Aug. 8.
- Werts, William D., assignor of 11% to G. Feldcamp, 11% to J. A. Shearer, 11% to C. E. Garner, 11% to C. Calhoun, and 11% to R. Moore, Los Angeles, Calif. Rear-axle construction. No. 1,408,152; Feb. 28.
- Wertz, Austin L., Dubuque, Iowa, assignor to Morrison Bros. Unloading rack. No. 1,429,262; Sept. 19.
- Wertz, Frank G. (See Stewart, J. V. and Wertz.)
- Wertzheiser, Joseph, New York, N. Y., assignor to Lawrence Aero Engine Corporation. Lubricating system for high-speed engines. No. 1,432,817; Oct. 24.
- Wesche, Louis E., Webb, Iowa. Automobile theft-preventing device. No. 1,428,307; Sept. 5.
- Wescott, Ernest W., Niagara Falls, N. Y., assignor to Kalmus, Comstock & Wescott, Incorporated, Boston, Mass. Ore treatment. No. 1,406,595; Feb. 14.
- Wescott, Ernest W., Niagara Falls, N. Y., assignor to Kalmus, Comstock & Wescott, Incorporated, Boston, Mass. Chloridizing apparatus. No. 1,406,596; Feb. 14.
- Westcott, Ernest W., Niagara Falls, N. Y., assignor to Kalmus, Comstock & Wescott, Incorporated, Boston, Mass. Treating ores. No. 1,406,597; Feb. 14.
- Wescott, William B., Wellesley Hills, assignor to Kalmus, Comstock & Wescott, Incorporated, Boston, Mass. Cinematographic multiplex printing. No. 1,409,628; Mar. 14.
- Wescott, William B., Wellesley Hills, assignor to Kalmus, Comstock & Wescott, Incorporated, Boston, Mass. Cinematographic apparatus. No. 1,417,005; May 23.
- Weslow, Charles, Newark, N. J. Game apparatus. No. 1,403,214; Jan. 10.
- Wesnick, Erwin, Berlin, Germany. Adjustable or self-regulating propeller. No. 1,425,922; Aug. 15.
- Wessel, Harry O., St. Louis, Mo. Electrically-operated semaphore toy. No. 1,427,881; Sept. 5.
- Wessel, Karl, St. Paul, Minn. Wood stain and making same. No. 1,402,553; Jan. 3.
- Wessell, Fernando A., Redbank, N. J. Pianissimo device for player pianos. No. 1,414,680; May 2.
- Wessels, Christie E., assignor to T. E. Guy, Chicago, Ill. Oil-well-clearing device. No. 1,432,649; Oct. 17.
- Wessling, Harry H. (See Hoskins, Thomas M., assignor.)
- Wessolek, Sheldon M., New Britain, Conn. Indicator for gasoline, etc. No. 1,406,312; Feb. 14.
- Wesson, Harold, Springfield, Mass. Method and apparatus for finishing curved surfaces. No. 1,423,378; July 18.
- Wesson, Harold, Springfield, Mass. Razor-blade stropper. No. 1,436,740; Nov. 28.
- Wesson, McKinley. (See Murray, J. H., and Wesson.)
- West, Andrew J., Andrews, S. C. Tire changer and carrier. No. 1,429,817; Sept. 19.
- West, Augustus A., assignor to Magic Hair Curler Co., Philadelphia, Pa. Hair curler. No. 1,402,275; Jan. 3.
- West, Augustus A., assignor to West Electric Hair Curler Company, Philadelphia, Pa. Metal revolving cabinet. No. 1,421,331; June 27.
- West, Charles C., assignor to Manitowoc Ship Building Corporation, Manitowoc, Wis. Ship. No. 1,430,708; Oct. 3.
- West, Creighton C., Wyoming, Nebr. Grappling tool. No. 1,439,458; Dec. 19.
- West Disinfecting Company. (See Kooperstein, Louis, assignor.)
- West Disinfecting Company. (See Marcuse, Moses M., assignor.)
- West, Earl, Oakland, Calif. Clothespin. No. 1,407,344; Feb. 21.
- West Electric Hair Curler Company. (See West, Augustus A., assignor.)
- West End Chemical Company. (See Morse, Harry W., assignor.)
- West, John B., Syracuse, N. Y. Instrument for locating defective coils in electric machines. No. 1,432,003; Oct. 17.
- West, John E., Fortescue, Mo. Chute-valve control. No. 1,431,609; Oct. 10.
- West, John H., Bayswater, and A. Jaques, Waterloo, England. Method and apparatus for increasing the yield of hydrogen in coal gas. No. 1,425,749; Aug. 1.
- West, John W., Lynn, Mass., assignor to General Electric Company. Reactive volt-ampere meter. No. 1,425,818; Aug. 15.
- West, Julian, and E. C. Campbell, Norfolk, Va. Attachment to refrigerating apparatus. No. 1,427,041; Aug. 22.
- West, Mansfield M., assignor to The Universal Shoe Plate Company, Cleveland, Ohio. Shoe plate. No. 1,418,894; June 6.
- West, Merle J., assignor to W. D. Kyle, Milwaukee, Wis. Renewable fuse. No. 1,411,946; Apr. 4.
- West, Merle J., assignor to W. D. Kyle, Milwaukee, Wis. Indicator for renewable fuses. No. 1,421,051; June 27.
- West, Oscar M., St. Paul, Minn. Automobile direction signal. No. 1,423,379; July 18.
- West, Otis B. (See Purdin, Nettie J., assignor.)
- West, Robert N., Brooklyn, assignor to Adams Laundry Machinery Company, Troy, N. Y. Washing-machine cylinder. No. 1,433,319; Oct. 24.
- West, Timothy E., Oakland, Calif. Parcel-post and express chart. No. 1,422,245; July 11.
- West Virginia Pulp and Paper Company. (See Statham, Noel, assignor.)
- Westbury, William, Okmulgee, Okla. Apparatus for the manufacture of glass cans. No. 1,439,855; Dec. 26.
- Westby, Adolph C., Porter, Minn. Stock waterer. No. 1,421,636; July 4.
- Westcott, Pliny K., assignor to Sun Light Arc Corporation, New York, N. Y. Automatically-operating means for controlling rheostats or equivalent devices. No. 1,405,469; Feb. 7.
- Westen, Theodore, and R. J. Morehouse, Visalia, Calif. Receptacle-filling apparatus. No. 1,435,568; Nov. 14.
- Westenberger, George P., Leavenworth, and P. E. Parker, Winchester, Kans. Poultry feeder. No. 1,404,251; Jan. 24.
- Wester, Frank W., Reynolds, N. Dak. Self-measuring stock feeder. No. 1,406,125; Feb. 7.
- Westerbeck, Frederick, St. Louis, Mo. Sheet-metal-display box. No. 1,411,463; Apr. 4.
- Westerbeck, Frederick, St. Louis, Mo. Sheet-metal box. No. 1,411,464; Apr. 4.
- Westerbeck, Frederick, St. Louis, Mo. Sealing containers. No. 1,418,114; May 30.
- Westerberg, Arvid, Djursholm, Sweden. Electric furnace. No. 1,412,764; Apr. 11.
- Westerdahl, Olof J., Seattle, Wash. Saw-filing machine. No. 1,406,512; Feb. 14.
- Westerfield, Granville G., Indianapolis, Ind. Internal-combustion engine. No. 1,421,878; July 4.
- Westerhaus, Henry L., Pemberville, Ohio. Implement for picking up ears of corn. No. 1,412,201; Apr. 11.
- Westerman, Frederick, Chicago, Ill. Depositing machine. No. 1,420,797; June 27.
- Westerman, Frederick, Chicago, Ill. Depositing machine. No. 1,434,175; Oct. 31.
- Westerman, Frederick, Chicago, Ill. Depositing machine. No. 1,438,280; Dec. 12.
- Westerman, Frederick, Chicago, Ill. Beater. No. 1,438,281; Dec. 12.
- Western Blower Company. (See Dudley, William L., assignor.)
- Western Cartridge Company. (See Olin, John M., assignor.)
- Western Cartridge Company. (See Rousseau, S., and Yoxall, assignors.)
- Western Cartridge Company. (See Schauerte, George W., assignor.)
- Western Electric Company. (See Adair, Samuel E., assignor.)
- Western Electric Company. (See Adams, Arthur H., assignor.)
- Western Electric Company. (See Allen, R. M., and Neill, assignors.)

Alphabetical list of patentees—Continued.

- Western Electric Company. (See Allen, Roy M., assignor.)
 Western Electric Company. (See Andrick, W. P., and Dahl, assignors.)
 Western Electric Company. (See Arnold, H. D., and Minton, assignors.)
 Western Electric Company. (See Arnold, Harold D., assignor.)
 Western Electric Company. (See Atwood, George F., assignor.)
 Western Electric Company. (See Baker, Lewis S., assignor.)
 Western Electric Company. (See Baldwin, John F., jr., assignor.)
 Western Electric Company. (See Beatty, William E., assignor.)
 Western Electric Company. (See Bell, John H., assignor.)
 Western Electric Company. (See Bellamy, H. T., and Sweely, assignors.)
 Western Electric Company. (See Bendernagel, William H., assignor.)
 Western Electric Company. (See Boe, Helmer J., assignor.)
 Western Electric Company. (See Blount, Harry, assignor.)
 Western Electric Company. (See Boardman, Albert, assignor.)
 Western Electric Company. (See Budd, I. D., Cronburg, and Hurd, assignors.)
 Western Electric Company. (See Cardwell, Allen D., assignor.)
 Western Electric Company. (See Casper, William L., assignor.)
 Western Electric Company. (See Clark, Edgar H., assignor.)
 Western Electric Company. (See Clausen, H. P., and Goodrum, assignors.)
 Western Electric Company. (See Clausen, Henry P., assignor.)
 Western Electric Company. (See Clement, Lewis M., assignor.)
 Western Electric Company. (See Conway, Roy D., assignor.)
 Western Electric Company. (See Correia, Joas N., assignor.)
 Western Electric Company. (See Craft, E. B., and Reynolds, assignors.) (Reissue.)
 Western Electric Company. (See Crandall, Irving B., assignor.)
 Western Electric Company. (See Cummings, George C., assignor.)
 Western Electric Company. (See Curtis, Austen M., assignor.)
 Western Electric Company. (See Deakin, Gerald, assignor.)
 Western Electric Company. (See De Coster, Charles J., assignor.)
 Western Electric Company. (See De Lemon, M., and Malec, assignors.)
 Western Electric Company. (See Dobson, George G., assignor.)
 Western Electric Company. (See Dowd, Andrew D., assignor.)
 Western Electric Company. (See Eaves, Augustus J., assignor.)
 Western Electric Company. (See Egerton, Henry C., assignor.)
 Western Electric Company. (See Elmen, Gustaf W., assignor.)
 Western Electric Company. (See Field, Joseph C., assignor.)
 Western Electric Company. (See Finley, Charles A., assignor.)
 Western Electric Company. (See Fischer, Frederick C., assignor.)
 Western Electric Company. (See Fondiller, William, assignor.)
 Western Electric Company. (See Freile, Bruce, assignor.)
 Western Electric Company. (See Gargan, John O., assignor.)
 Western Electric Company. (See Gauthier, Ernest, assignor.)
 Western Electric Company. (See Goff, Harold W., assignor.)
 Western Electric Company. (See Goodrum, Charles L., assignor.)
 Western Electric Company. (See Griffin, J. T., Timm, and Santschi, assignors.)
 Western Electric Company. (See Grondahl, Hans H. C., assignor.)
 Western Electric Company. (See Haddock, Arthur, assignor.)
 Western Electric Company. (See Hampton, Leon N., assignor.)
 Western Electric Company. (See Hancock, Edmund W., assignor.)
 Western Electric Company. (See Hargan, Augustus D., assignor.)
 Western Electric Company. (See Harrison, Henry C., assignor.)
 Western Electric Company. (See Hartley, Ralph V. L., assignor.)
 Western Electric Company. (See Heising, Raymond A., assignor.)
 Western Electric Company. (See Hendry, W. F., and Reddig, assignors.)
 Western Electric Company. (See Hendry, William F., assignor.)
 Western Electric Company. (See Hocker, Carl D., assignor.)
 Western Electric Company. (See Hosford, William F., assignor.)
 Western Electric Company. (See Houskeeper, William G., assignor.)
 Western Electric Company. (See Johnson, Kenneth S., assignor.)
 Western Electric Company. (See Johnston, John, assignor.)
 Western Electric Company. (See Keckler, Charles W., assignor.)
 Western Electric Company. (See Kelly, Mervin J., assignor.)
 Western Electric Company. (See Kelsay, Le Roy W., assignor.)
 Western Electric Company. (See Kohlhaas, Herman T., assignor.)
 Western Electric Company. (See Lattig, J. W., and Goodrum, assignors.)
 Western Electric Company. (See Lundell, A. E., and Clark, assignors.)
 Western Electric Company. (See Lundell, Alben E., assignor.)
 Western Electric Company. (See Lysons, Noel H., assignor.)
 Western Electric Company. (See Malcolmson, W. J., and Blount, assignors.)
 Western Electric Company. (See Mathes, R. C., and Read, assignors.)
 Western Electric Company. (See Mathes, Robert C., assignor.)
 Western Electric Company. (See Maxfield, J. P., and Smith, assignors.)
 Western Electric Company. (See Maxfield, Joseph P., assignor.)
 Western Electric Company. (See May, David T., assignor.)
 Western Electric Company. (See McGill, P. K., and Menefee, assignors.)
 Western Electric Company. (See McQuarrie, James L., assignor.)
 Western Electric Company. (See Meade, Henry L., assignor.)
 Western Electric Company. (See Merritt, Benjamin F., assignor.)
 Western Electric Company. (See Mills, John, assignor.)
 Western Electric Company. (See Minton, J. P., and Finley, assignors.)
 Western Electric Company. (See Moore, Charles R., assignor.)
 Western Electric Company. (See Morrill, Joseph B., assignor.)
 Western Electric Company. (See Mortimer, Louis A., assignor.)
 Western Electric Company. (See Neal, Earl W., assignor.)
 Western Electric Company. (See Nichols, Harold W., assignor.)
 Western Electric Company. (See Nicolson, Alexander M., assignor.)
 Western Cartridge Company. (See Olin, Franklin W., assignor.)
 Western Electric Company. (See O'Neill, Henry W., assignor.)
 Western Electric Company. (See Oswald, Arthur A., assignor.)
 Western Electric Company. (See Ottman, Robert E., assignor.)
 Western Electric Company. (See Pauly, Howard C., assignor.)
 Western Electric Company. (See Pfannenstiehl, H., and Bancroft, assignors.)
 Western Electric Company. (See Polinkowsky, Lipa, assignor.)
 Western Electric Company. (See Price, Charles S., assignor.)
 Western Electric Company. (See Price, Ralph A., assignor.)
 Western Electric Company. (See Pugh, Harry W., assignor.)
 Western Electric Company. (See Radu, John W., assignor.)
 Western Electric Company. (See Raibourn, Paul A., assignor.)
 Western Electric Company. (See Rainey, Paul M., assignor.)
 Western Electric Company. (See Raynsford, Arthur, assignor.)
 Western Electric Company. (See Read, Harry S., assignor.)
 Western Electric Company. (See Reddig, Charles E., assignor.)
 Western Electric Company. (See Rhoads, Charles S., jr., assignor.)
 Western Electric Company. (See Richard, Charles D., assignor.)
 Western Electric Company. (See Riecken, William E., assignor.)

- Western Electric Company. (See Ryder, Harold W., assignor.)
- Western Electric Company. (See Schelling, John C., assignor.)
- Western Electric Company. (See Schnable, G. L., and Abbott, assignors.)
- Western Electric Company. (See Schumacher, Earl B., assignor.)
- Western Electric Company. (See Scriven, Edward O., assignor.)
- Western Electric Company. (See Selvig, J. N., and R. Jongedyk, assignors.)
- Western Electric Company. (See Sivian, Leon J., assignor.)
- Western Electric Company. (See Snook, H. C., and Buckley, assignors.)
- Western Electric Company. (See Speed, J. B., and Hutchinson, assignors.)
- Western Electric Company. (See Speed, James B., assignor.)
- Western Electric Company. (See Spencer, Frank C., assignor.)
- Western Electric Company. (See Spengeman, Lawrence R., assignor.)
- Western Electric Company. (See Sperry, Arthur B., assignor.)
- Western Electric Company. (See Sprague, Clarence A., assignor.)
- Western Electric Company. (See Stearn, Franklin A., assignor.)
- Western Electric Company. (See Stenson, Olaf, assignor.)
- Western Electric Company. (See Stoller, Hugh M., assignor.)
- Western Electric Company. (See Swoboda, Adolph R., assignor.)
- Western Electric Company. (See Tanner, De Witt C., assignor.)
- Western Electric Company. (See Timm, William A., assignor.)
- Western Electric Company. (See Ulrich, Horace W., assignor.)
- Western Electric Company. (See Waller, Lee R., assignor.)
- Western Electric Company. (See Weaver, William C., assignor.)
- Western Electric Company. (See Weinhart, Howard W., assignor.)
- Western Electric Company. (See Wente, Edward C., assignor.)
- Western Electric Company. (See Wheeler, Clyde H., assignor.)
- Western Electric Company. (See Whiteside, Victor, assignor.)
- Western Electric Company. (See Wickstrom, Charles A., assignor.)
- Western Electric Company. (See Williams, Henry L. S., assignor.)
- Western Electric Company. (See Williams, Robert R., assignor.)
- Western Electric Company. (See Williams, S. B., Jr., and Sperry, assignors.) (Reissue.)
- Western Electric Company. (See Williams, Samuel B., Jr., assignor.)
- Western Electric Company. (See Wilson, Richard H., assignor.)
- Western Electric Company. (See Wilson, William, assignor.)
- Western Electric Company. (See Wold, P. I., and Buckley, assignors.)
- Western Electric Company. (See Wold, Peter I., assignor.)
- Western Electric Company. (See Young, C. R., and Van Deusen, assignors.)
- Western Electric Company Incorporated. (See Adams, Arthur H., assignor.)
- Western Electric Company, Incorporated. (See Buckley, Oliver E., assignor.)
- Western Electric Company Incorporated. (See Fischer, Frederick C., assignor.)
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- Western Electric Company, Incorporated. (See Shaw, T., and Fondiller, assignors.)
- Western Electric Company, Incorporated. (See Staples, Robert T., assignor.)
- Western Electric Company Incorporated. (See Stenson, Olaf, assignor.)
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- Western Electric Company, Incorporated. (See Thronsen, Sigurd, assignor.)
- Western Electric Company Incorporated. (See Weinhart, Howard W., assignor.)
- Western Electric Company Incorporated. (See Wilson, William, assignor.)
- Western Electrical Company. (See Williams, Robert R., assignor.)
- Western Felt Works. (See Fautrot, Henry, Jr., assignor.)
- Western Gas Construction Company, The. (See Salathe, Frederick, assignor.)
- Western Metallurgical Company. (See Scott, Archibald, assignor.)
- Western Paper Box Company. (See Fuhr, William, assignor.)
- Western Paper Box Company. (See Whipple, Myron J., assignor.)
- Western Pipe and Steel Company of California. See Tollerday, Howard G., assignor.)
- Western Precipitation Company. (See Huber, Frederick W., assignor.)
- Western Precipitation Company. (See Rhodes, E. O., and Haff, assignors.)
- Western Silo Company. (See Vorse, Blanchard B., assignor.)
- Western States Machine Company, The. (See Roberts, Eugene, assignor.)
- Western Union Telegraph Company, The. (See Angel, Herbert, assignor.)
- Western Union Telegraph Company, The. (See Atherton, Albert, assignor.)
- Western Union Telegraph Company, The. (See Janson, George W., assignor.)
- Western Union Telegraph Company, The. (See Milnor, Joseph W., assignor.)
- Western Wind Shield Works. (See Hendel, William H., assignor.)
- Westfall, James, Poplar, Mont. Grain chute. No. 1,437,459; Dec. 5.
- Westin, Louis, Bangor, Wash. Air motor. No. 1,412,729; Apr. 11.
- Westinghouse Air Brake Company, The. (See Bristol, Tom R., assignor.)
- Westinghouse Air Brake Company, The. (See Brown, Thomas R., assignor.)
- Westinghouse Air Brake Company. (See Bubb, Charles L., assignor.) (Reissue.)
- Westinghouse Air Brake Company, The. (See Cloud, John W., assignor.)
- Westinghouse Air Brake Company, The. (See Dewson, Edward H., assignor.)
- Westinghouse Air Brake Company. (See Dudley, Samuel W., assignor.)
- Westinghouse Air Brake Company, The. (See England, Alexander, assignor.)
- Westinghouse Air Brake Company. (See Farmer, Clyde C., assignor.)
- Westinghouse Air Brake Company. (See Grosswege, John B., assignor.)
- Westinghouse Air Brake Company, The. (See Hewitt, Ellis E., assignor.)
- Westinghouse Air Brake Company, The. (See Lane, George S., assignor.)
- Westinghouse Air Brake Company, The. (See Lewis, Lloyd V., assignor.)
- Westinghouse Air Brake Company, The. (See Rendell, Alan W., assignor.)
- Westinghouse Air Brake Company, The. (See Thomas, Frank E., assignor.)
- Westinghouse Air Brake Company, The. (See Thomas, Thomas H., assignor.)
- Westinghouse Air Brake Company. (See Turner, Walter V., assignor.)
- Westinghouse Air Spring Company. (See Liebau, Richard, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Aalborg, C., and Bakken, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Aalborg, Christian, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Albrecht, John H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Alden, Vern E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Ansinch, Herman K., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Aram, Otto, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Atherton, Alfred L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Austin, Bascum O., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Austin, Walter M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Bastian, Arthur J., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Baumann, Karl, assignor.)

Alphabetical list of patentees—Continued.

- Westinghouse Electric and Manufacturing Company. (See Beach, Howard L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Bethel, Claude, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Boddie, Clarence A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Bouton, Edgar M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Brace, Porter H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Bradshaw, William M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Brooks, W. G., and Riley, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Brown, James M., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Candee, A. H., and Hibbard, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Candee, Andrew H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Carpenter, Cranston H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Chantemerle, Joseph L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Christman, G. L., and MacNeill, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Christman, George L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Chubb, Lewis W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Click, William S., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Coates, W. A., Gittins, and Davies, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Colby, Ora A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Cole, Guernsey H., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Conrad, Frank, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Coulson, J., and Rottmann, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Coulson, John, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Cox, George R., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Davis, David C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See De Camp, Ray E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Demmler, Paul E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Denman, Earl W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Eaton, George M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Ehrenfeld, R., and Caldwell, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Ehrenfeld, Ralph, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Ehrhart, Raymond N., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Eschholz, Otto H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Farnsworth, Sidney W., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Flanders, Warren B., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Follows, George H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Foot, William H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Fortescue, C. L., and Harker, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Fortescue, C. L., and MacNeill, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Fortescue, Charles L., assignor.)
- Westinghouse Electric Products Company. (See Forshee, Frank F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Frederick, Louis T., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Garcelon, G. H., and Chantemerle, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Gazda, Adolph A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Gilcrest, George I., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Gudge, Benjamin J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Guildford, Charles T., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Gysel, Max E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hall, Arthur J., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Hallock, Fletcher D., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Harker, F. C., and Moss, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Harrison, William E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Harvey, Albert L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Heckman, August, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hellmund, R. E., and Jungk, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Hellmund, Rudolf E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hengstenberg, Paul M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Henninger, Philip E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Henoch, Milton, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hersherberger, David C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hibbard, Lloyd J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hodgkins, Charles H., assignor.)
- Westinghouse Electric & Manufacturing Co. (See Hodgkinson, Francis, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Holy, George H. F., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Houston, Harold A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Irwin, George R., assignor.)
- Westinghouse Electric & Manufacturing Company. (See James, Henry D., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Jennings, Oliver S., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Jensen, Gunnar, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Johnson, Ernest G., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Johnston, Howard H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Jorstad, Osmund M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Kasley, Alexander T., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Keith, Harold L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Kemp, R., and Johnson, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Kemp, Robert, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Kempton, W. H., and Rowe, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Kempton, W. H., Gudge, and Laufer, assignors.)
- Westinghouse Electric and Manufacturing Company. (See Kempton, Willard H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Kothny, Gott Dank L. E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Kries, Lawrence F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Kroger, Fred H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Kunkle, Bayard D., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Lamme, Benjamin G., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Lammers, Edwin S., Jr., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Lehr, Edwin, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Loudon, Warren P., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Lovell, William V., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Lundgren, Edwin, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Lynch, Tillman D., assignor.)
- Westinghouse Electric & Manufacturing Company. (See MacFarland, Allis M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See MacGahan, Paul, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Mahoney, Joseph H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Mardis, Paul L., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Marsland, Roland, assignor.)
- Westinghouse Electric & Manufacturing Company. (See McAfee, William K., assignor.)
- Westinghouse Electric & Manufacturing Company. (See McCallister, Edgar W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See McCarty, Roy A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See McCloskey, Frederick W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See McCulloch, Leon M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See McWhirter, John S., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Meyer, Harry R., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Miller, C. F., and Allen, assignors.)

- Westinghouse Electric & Manufacturing Co., The. (See Miller, Charles F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Miller, F. H., and Procter, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Miller, Frederick H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Miller, John H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Mills, Chester B., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Moore, Benjamin S., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Murdock, Henry D., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Myers, Clarence E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Mylius, Walter G., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Nagel, Harry C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Nicholson, Samuel L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Nyman, Alexander, assignor.)
- Westinghouse Electric & Manufacturing Company. (See O'Brien, Harold F., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Parker, Leslie O., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Pascoe, Wilbur, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Patten, Francis H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Perkins, Thomas S., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Peters, John F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Procter, J. H., and Sandin, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Procter, Joseph H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Puxon, Edward, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Randall, K. C., and Travers, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Riley, L. G., and Schenck, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Riley, Lynn G., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Roberts, W. S., and Hodgkins, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Rose, E. E., and Mardis, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Rose, Edward E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Sandin, Maurits J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Schaake, William, assignor.)
- Westinghouse Electric & Manufacturing Co. (See Schmidt, Henry F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Scott, Wirt S., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Shepard, Victor J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Shrader, James E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Simmon, Karl A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Smith, Benjamin H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Smith, Gerald F., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Snyder, John E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Spooner, Thomas, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Staeger, Stephen A., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Starker, Charles W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Stewart, O. V., and Hatzfeld, assignors.)
- Westinghouse Electric and Manufacturing Company. (See Storer, Norman W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Sykes, Wilfred, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Taylor, Horace V. S., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Thompson, Arthur W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Trostle, John E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Tupper, Frank H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Wahlberg, Nils J. A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Weber, Clifford A. M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Webster, Alfred D., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Weidenthal, Harold G., assignor.) (Reissue.)
- Westinghouse Electric & Manufacturing Company. (See Wensley, Roy J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Whittaker, Charles C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Wilson, Golder P., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Wood, Harry M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Woodman, William H., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Woods, George M., assignor.)
- Westinghouse Electric Products Company. (See Woodson, James C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Wortmann, Otto, assignor.)
- Westinghouse Electric Products Company. (See Forshee, Frank F., assignor.)
- Westinghouse Electric Products Company. (See Haynsworth, Julius D., assignor.)
- Westinghouse Electric Products Company. (See Kruesheld, Henry, assignor.)
- Westinghouse Electric Products Company. (See Thornton, Frank, jr., assignor.)
- Westinghouse Electric Products Company. (See Thornton, F., jr., and Forshee, assignors.)
- Westinghouse Electric Products Company. (See Woodson, James C., assignor.)
- Westinghouse Lamp Company. (See Amatel, Harold, assignor.)
- Westinghouse Lamp Company. (See Brann, Albert, assignor.)
- Westinghouse Lamp Company. (See Lederer, Anton, assignor.)
- Westinghouse Lamp Company. (See Marden, John W., assignor.)
- Westinghouse Lamp Company. (See Weston, Edward G., assignor.)
- Westinghouse Union Battery Company. (See Cook, T. R., and Norris, assignors.)
- Westinghouse Union Battery Company. (See Cook, Thomas R., assignor.)
- Westinghouse Union Battery Company. (See Norris, Paul E., assignor.)
- Westlake, Charles T., and K. S. Howard, St. Louis, Mo. Electric truck. No. 1,424,788; Aug. 8.
- Westlake, Charles T., assignor to Commonwealth Steel Company, St. Louis, Mo. Locomotive trailer truck. No. 1,402,983; Jan. 10.
- Westlake, Charles T., assignor to Cast Steel Locomotive Ash Pan Company, St. Louis, Mo. Locomotive ash pan. No. 1,410,978; Mar. 28.
- Westlake, Charles T., assignor to Commonwealth Steel Company, St. Louis, Mo. Car truck. No. 1,410,979; Mar. 28.
- Westling, Lester L., Alameda, Calif. Sounding apparatus. No. 1,427,181; Aug. 29.
- Westling, Olof, Minneapolis, Minn. Car mover. No. 1,412,153; Apr. 11.
- Westlund, Albert F., assignor to The Prest-O-Lite Company, Inc., Indianapolis, Ind. Flash check for acetylene-gas tanks. No. 1,407,610; Feb. 21.
- Westmont, John C., assignor to Wisconsin Farm Tractor Company, Sauk City, Wis. Tractor. No. 1,424,224; Aug. 1.
- Westmore, Halward G., assignor to A. O. Smith Corporation, Milwaukee, Wis. Portable riveting hammer. No. 1,433,053; Oct. 24.
- Westmoreland, James A., Vivian, La. Sand trap for oil wells. No. 1,439,280; Dec. 19.
- Westmoreland, James P., and J. D. Bullington, Onalaska, Tex. Turntable. No. 1,402,554; Jan. 8.
- Weston, Alfred L. (See Petersen, Frank H., assignor.)
- Weston, Alfred S., et al. (See Peterson, F. H., and Darling, assignors.)
- Weston, Alonzo H., and J. Zilliox, assignors to Key-Bolt Appliance Company, Buffalo, N. Y. Making key bolts. No. 1,403,365; Jan. 10.
- Weston, Alonzo H., Buffalo, and J. Zilliox, Orchard Park, N. Y., assignors, by mesne assignments, to The Diaphone Signal Company, Limited, Toronto, Ontario, Canada. Key bolt. No. 1,420,005; June 20.
- Weston, Arthur H., assignor to The T. H. Symington Company, New York, N. Y. Draft rigging. No. 1,409,130; Mar. 7.
- Weston, Edward B., Dayton, Ohio. Display rack. No. 1,427,248; Aug. 29.
- Weston, Edward B., Dayton, Ohio. Display rack. No. 1,427,249; Aug. 29.
- Weston, Edward B., Dayton, Ohio. Display rack. No. 1,428,730; Sept. 12.
- Weston, Edward B., Dayton, Ohio. Packing container. No. 1,432,934; Oct. 24.
- Weston, Edward B., assignor to The Weston Paper and Manufacturing Company, Dayton, Ohio. Rack. No. 1,427,247; Aug. 29.
- Weston, Edward G., Fryeburg, Me., assignor to Westinghouse Lamp Company. Lamp-focusing apparatus. No. 1,412,380; Apr. 11.
- Weston Electrical Instrument Company. (See Goodwin, William N., Jr., assignor.)
- Weston, Harvard F., Newton Center, Mass. Heel lining for repairing shoes. No. 1,418,855; June 6.

Alphabetical list of patentees—Continued.

- Weston, Milton T., New York, N. Y. Resilient wheel. No. 1,431,610; Oct. 10.
- Weston Paper and Manufacturing Company, The. (See Weston, Edward B., assignor.)
- Weston, William, Liverpool, England. Flexible chain wrench. No. 1,413,306; Apr. 18.
- Weston, William S., Dallas, Tex. Anticreeper tie plate for railway rails. No. 1,417,366; May 23.
- Weston, William S., Houston, Tex. Hydraulic transmission mechanism. No. 1,420,798; June 27.
- West's Gas Improvement Company Limited. (See Wild, William, assignor.)
- Weth, John A., Streator, Ill. Clothesline fastener. No. 1,424,537; Aug. 1.
- Wetherholt, William C., Columbus, Ohio. Key-duplicating machine. No. 1,422,155; July 11.
- Wethling, Harry D., Orange, N. J. Electric lock. No. 1,425,428; Aug. 8.
- Wetmore, Douglas, Portsmouth, Va. Attachment for firearms. No. 1,427,042; Aug. 22.
- Wettengel, Charles A., assignor to American Zinc, Lead & Smelting Company, St. Louis, Mo. Condenser. No. 1,429,214; Sept. 12.
- Wettstein, Godfrey B., Portland, Oreg. Window. No. 1,407,503; Feb. 21.
- Wetzel, Carl G., Kokomo, Ind., assignor to C. E. Hodgen, Kokomo, Ind. Jewelry. No. 1,420,897; June 27.
- Wetzel, George W., Macomb, Ill. Silo. No. 1,416,534; May 16.
- Wetzel, Lewis C., Windsor, Ontario, Canada, assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. No. 1,429,662; Sept. 19.
- Wever, Albert B., Chipley, Fla. Churn dasher. No. 1,409,267; Mar. 14.
- Wever, Beulah L., Savannah, Ga. Cooking utensil. No. 1,422,156; July 11.
- Wexler, Benjamin, assignor to The Peelle Company, Brooklyn, N. Y. Elevator door. No. 1,403,995; Jan. 17.
- Wexler, Benjamin, assignor to The Peelle Company, Brooklyn, N. Y. Dumb-waiter door. No. 1,414,387; May 2.
- Wexler, Benjamin, assignor to The Peelle Company, Brooklyn, N. Y. Expansion shoe for elevator doors. No. 1,416,247; May 16.
- Weyand, Bernard D. (See Bergwall, Fred, assignor.)
- Weyand, George W., New York, N. Y. Attachment for containers. No. 1,435,949; Nov. 21.
- Weyandt, Charles B. (See Jewell, James M., assignor.)
- Weydell, Jarl M., assignor of one-half to E. E. Stout, Indianapolis, Ind. Burner top. No. 1,436,420; Nov. 21.
- Weyerhaeuser Forest Products. (See Onstad, Albert H., assignor.)
- Weyerman, Emil, Omaha, Nebr. Boiler furnace. No. 1,435,678; Nov. 14.
- Weyh, Charles H. and W. F., St. Paul, Minn. Beet-topping machine. No. 1,429,988; Sept. 26.
- Weyh, William F. (See Weyh, Charles H. and W. F.)
- Weyhrauch, Frederick, New York, N. Y. Brush cleaner. No. 1,425,923; Aug. 15.
- Weyl, Leo. (See Gompers, E. E., Weyl, and Hein.)
- Weyland, Hermann H., Hahl, and R. Berendes, Elberfeld, assignors to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne, Germany. Pharmaceutical product. No. 1,426,430; Aug. 22.
- Weyland, Herman, H. Hahl, and R. Berendes, Elberfeld, assignors to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne, Germany. Pharmaceutical compound. No. 1,427,182; Aug. 29.
- Weymann, Charles T., Neuilly-sur-Seine, France. Auxiliary liquid-forcing device for carburetors. No. 1,408,322; Feb. 28.
- Weymerskirch, Theodor, Luxemburg, Luxemburg. Iron mold for casting rolls for rolling mills. No. 1,438,677; Dec. 12.
- Weymuth, Leon T., Cincinnati, Ohio. Retail ribbon container. No. 1,412,547; Apr. 11.
- Weyrick, Warren B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Ballast device. No. 1,430,868; Oct. 3.
- Whalbe, Jacob M., New York, N. Y. Elevator. No. 1,417,873; May 30.
- Whalen, James D., et al., trustees. (See Larsen, Edward A., assignor.)
- Whalen, Joseph T., Rhinelander, Wis. Clock dial. No. 1,438,153; Dec. 5.
- Whalen, Ronald T. (See Bongiovanni, Antonio, assignor.)
- Whaler, John H., Canton, Ohio. Door-operating device. No. 1,432,507; Oct. 17.
- Whaley, Cyrus T., Norfolk, Va. Trolley guard for tunnels. No. 1,416,535; May 16.
- Whaley, Cyrus T., Norfolk, Va. Trolley guard for tunnels. No. 1,416,536; May 16.
- Whaley, William B. S., New York, N. Y., assignor to D. Lichtenstein, Boston, Mass. Automatic and regulable liquid-fuel injection valve. No. 1,411,143; Mar. 28.
- Whaley, William B. S., New York, N. Y., assignor to American Whaley Engine Company, Boston, Mass. Timing and injecting device for internal-combustion engines. No. 1,426,934; Aug. 22.
- Whaley, William B. S., Malden, assignor to American Whaley Engine Company, Boston, Mass. Automatic safety valve. No. 1,428,920; Sept. 12.
- Whaley, William B. S., New York, N. Y., assignor to American Whaley Engine Company, Boston, Mass. Internal-combustion engine. No. 1,430,480; Sept. 26.
- Whaley, Winfred W., Wilmington, N. C. Parachute. No. 1,410,435; Mar. 21.
- Whalley, Edmund B., Sheffield, England. Means for barking timber. No. 1,440,042; Dec. 26.
- Wharton, Edward M., and J. W. Jones, Greenville, S. C. Harness stand and stop motion for looms. No. 1,434,274; Oct. 31.
- Wharton, William, Jr., & Company Incorporated. (See Angerer, Victor, assignor.)
- Wharton, William, Jr., & Co. (See Henderson, William M., assignor.)
- Wharton, William, Jr. & Company. (See Psilander, C. A., and Henderson, assignors.)
- Wharton, William, Jr., & Company, Incorporated. (See Psilander, Charles A., assignor.)
- Whattmough, Wilfred A. (See Keith, G., and Whattmough.)
- Wheatley, George H., Milwaukee, Wis. Method for and apparatus for making resilient tires. No. 1,405,470; Feb. 7.
- Wheary, George H., Racine, Wis. Locking means for trunk drawers. No. 1,419,594; June 13.
- Wheary, George H., Racine, Wis. Trunk lock. No. 1,437,460; Dec. 5.
- Wheatley, George H., Chicago, Ill. Method of and apparatus for making resilient tires. No. 1,432,004; Oct. 17.
- Wheatley, Thomas W., Shickshinny, Pa. Brake-controlling dash pot. No. 1,419,430; June 13.
- Wheatley, Thomas W., Shickshinny, Pa. Brake-controlling dashpot. No. 1,436,069; Nov. 21.
- Wheaton, Georgia W., Appleton, Wis. Finishing paper. No. 1,407,611; Feb. 21.
- Wheaton, Harry F. (See Williams, Sheldon A., assignor.)
- Wheaton, Harry S., Dallas, Iowa. Sanitary telephone mouthpiece. No. 1,404,413; Jan. 24.
- Wheelan, Robert B. (See Emerson, V. H., and Wheelan.)
- Wheeldon, Arthur L., London, England. Figure wheeled toy. No. 1,439,592; Dec. 19.
- Wheeler, Charles R., Greene, N. Y. Necktie supporter. No. 1,427,139; Aug. 29.
- Wheeler, Clyde H., Midland Park, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Illuminating apparatus. No. 1,434,862; Nov. 7.
- Wheeler, David C., assignor to The Acme Shear Company, Bridgeport, Conn. Scissors and shears. No. 1,433,767; Oct. 31.
- Wheeler, Earl A., Bakersfield, Calif. Broom. No. 1,435,358; Nov. 14.
- Wheeler, Frank C., Montreal, Quebec, Canada. Method and composition for rendering materials fireproof. No. 1,414,609; May 2.
- Wheeler, H. J., Salvage Co. (See Wheeler, Hervey J., assignor.)
- Wheeler, Harry T. (See Richardson, D. J., and Wheeler.)
- Wheeler, Harvey C., Lexington, Mass. Towel cabinet. No. 1,418,219; May 30.
- Wheeler, Hervey J., assignor to H. J. Wheeler Salvage Co. Inc., Brooklyn, N. Y. Pumping apparatus. No. 1,405,173; Jan. 31.
- Wheeler, James S., Mesa, Ariz. Headlight. No. 1,425,562; Aug. 15.
- Wheeler, James W., Jr., Chattanooga, Tenn. Direction indicator. No. 1,423,588; July 25.
- Wheeler, John A., Bloomington, assignor of one-tenth to E. M. Lash, Rialto, Calif. Nut. No. 1,421,638; July 4.
- Wheeler, John L., assignor to The Measuregraph Company, St. Louis, Mo. Totalizing measuring machine. No. 1,406,126; Feb. 7.
- Wheeler, John L., assignor to Simplex Shoe Machinery Company, St. Louis, Mo. Sewing machine. No. 1,427,140; Aug. 29.
- Wheeler, John L., assignor, by mesne assignments, to The Measuregraph Company, St. Louis, Mo. Resetting mechanism. No. 1,428,407; Sept. 5.
- Wheeler, John L., St. Louis, and E. A. Reed, Maplewood, assignors to The Measuregraph Company, St. Louis, Mo. Fabric-measuring and cost-computing machine. No. 1,413,307; Apr. 18.
- Wheeler, John L., St. Louis, and E. A. Reed, Maplewood, assignors to The Measuregraph Company, St. Louis, Mo. Floating shear control for pressure rollers. No. 1,415,501; May 9.
- Wheeler, John S., Dunsmuir, Calif. Mechanism for oiling wheel gauges. No. 1,410,858; Mar. 28.
- Wheeler, Leonard H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Fuel-supply device for internal-combustion engines. No. 1,432,935; Oct. 24.
- Wheeler, Mary. (See Bates, E. M., and Wheeler.)
- Wheeler, Milton I., Los Angeles, Calif. Bathing pool. No. 1,438,800; Dec. 12.
- Wheeler, Roy E., Penn Yan, N. Y. Apparatus for preserving fruit. No. 1,408,915; Mar. 7.
- Wheeler, Schuyler S., Barnardsville, assignor to Crocker-Wheeler Company, Ampere, N. J. Motor-starting switch. No. 1,436,329; Nov. 21.
- Wheeler, Seth, Castleton, N. Y. Process of and machine for cutting sheet material. No. 1,418,115; May 30.
- Wheeler, Seth, Castleton, N. Y. Paper package and forming same. No. 1,430,709; Oct. 3.
- Wheeler, Seth, Castleton, N. Y. Dispensing cabinet. No. 1,433,862; Oct. 31.

- Wheeler, Seth, Castleton, N. Y. Folding device. No. 1,436,302; Nov. 21.
- Wheeler, Thorne L., New York, N. Y. Apparatus for making active charcoal. No. 1,413,146; Apr. 18.
- Wheeler, Walter H., assignor to Pitney-Bowes Export Corporation, Stamford, Conn. Envelope-sealing mechanism. No. 1,410,859; Mar. 28.
- Wheeler, William I., Scottville, Ill. Speed-changing mechanism. No. 1,421,639; July 4.
- Wheeler, William I., Scottville, Ill. Power-transmission mechanism. No. 1,422,507; July 11.
- Wheeler, William I., Scottville, Ill. Reversing mechanism. No. 1,422,508; July 11.
- Wheeler, William I., Scottville, Ill. Power-transmission mechanism. No. 1,422,509; July 11.
- Wheeler, William I., Scottville, Ill. Transmission mechanism. No. 1,422,510; July 11.
- Wheeler, William W., Jacksonville, Fla. Track construction. No. 1,404,414; Jan. 24.
- Wheeler, William W., Jacksonville, Fla. Convertible farming implement. No. 1,440,323; Dec. 26.
- Wheeling Can Company. (See Wells, Joseph P., assignor.)
- Wheeling Stamping Company. (See Paull, A. W., and McGinnis, assignors.)
- Wheeling Steel & Iron Company. (See Peacock, Samuel, assignor.)
- Wheelock, Arthur C., Oakland, Calif. Washing and drying machine. No. 1,413,882; Apr. 25.
- Wheelock, Arthur C., Oakland, assignor to American Automatic Lock and Lift Company, San Francisco, Calif. Sash locking and balancing mechanism. No. 1,422,399; July 11.
- Wheelock, Herbert K. (See Clark, Irwin W., assignor.)
- Wheelock, John H. (See Rohland, C. J., and Wheelock, assignors.)
- Wheelock, John H., Worcester, Mass. Sign flasher. No. 1,428,499; Sept. 5.
- Wheelock, John H., Worcester, Mass., assignor to Klaxon Company, Newark, N. J. Selector. No. 1,403,996; Jan. 17.
- Wheelock, Nelson T., Framingham, Mass. Gas burner. No. 1,403,215; Jan. 10.
- Wheelwright, Henry M., Newton Center, Mass. Beater sizing. No. 1,430,045; Sept. 26.
- Wheildon, William M. (See Angier, E. H., and Wheildon.)
- Wheildon, William M., Ashland, assignor to E. H. Angier, Framingham, Mass. Wrapping machine. No. 1,409,504; Mar. 14.
- Wheildon, William M., Ashland, assignor to E. H. Angier, Framingham, Mass. Delivering material from rolls. No. 1,409,505; Mar. 14.
- Wheildon, William M., Ashland, assignor to E. H. Angier, Framingham, Mass. Wrapping machine. No. 1,439,887; Dec. 19.
- Whelan, Martin J., Clifton Heights, Pa. Freight car. No. 1,421,637; July 4.
- Whelan, Martin J., Clifton Heights, Pa. Heating device. No. 1,428,349; Sept. 5.
- Whelan, Michael J. (See Thomson, P., and Whelan.)
- Whelan, Thomas F. (See Waidelich, J. F., and Whelan.)
- Whelpley, Earl G., assignor to P. T. Brown Construction Company, Cleveland, Ohio. Support for checkerwork. No. 1,438,349; Dec. 12.
- Whellie, Charles B. (See Beitzell, A. F., and Weikert, assignors.)
- Wherland, Robert F., Stanley, N. Dak. Electrically-heated apparatus. No. 1,423,380; July 18.
- Wherry, John A., New Orleans, La. Collated work sheet. No. 1,403,663; Jan. 17.
- Wherry, John A., New Orleans, La. Fishing reel. No. 1,413,816; Apr. 25.
- Wherry, John A., New Orleans, La. Collated work sheet. No. 1,424,967; Aug. 8.
- Wherry, John A., New Orleans, La. Record sheet or card. No. 1,424,968; Aug. 8.
- Wherry, John A., New Orleans, La., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,425,750; May 9.
- Wherry, John A., New Orleans, La., assignor to Underwood Typewriter Company, New York, N. Y. Typewriter. (Reissue.) No. 15,426; July 25.
- Whetstone, Irene B., Chicago, Ill. Protective covering material for buildings. No. 1,440,358; Dec. 26.
- Whewell, James E., and H. I. Yoder, Hollsopple, Pa. Check holder for mine cars. No. 1,417,006; May 23.
- Whibley, Benjamin, Winnipeg, Manitoba, Canada. Window. No. 1,423,057; July 18.
- Whidden, Charles S. (See Hug, Joseph E., assignor.)
- Whipple, Leland B., Rochester, N. Y., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Last. No. 1,407,050; Feb. 21.
- Whipple, Leland B., Rochester, N. Y., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Last lathe. No. 1,407,728; Feb. 28.
- Whipple, Leland B., Rochester, N. Y., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Wood-heel-turning machine. No. 1,412,910; Apr. 18.
- Whipple, Leland B., Rochester, N. Y., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Propeller lathe. No. 1,425,563; Aug. 15.
- Whipple, Leland B., Rochester, N. Y., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Wood-heel-seating machine. No. 1,429,309; Sept. 19.
- Whipple, Leland B., Rochester, N. Y., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Strut lathe. No. 1,434,516; Nov. 7.
- Whipple, Myron J., Monroe, assignor to The Western Paper Box Company, Detroit, Mich. Adjustable cardboard easel. No. 1,439,719; Dec. 26.
- Whipple, Ralph, assignor of one-half to C. H. Michell, Detroit, Mich. Guard for tractor-drawn plows. No. 1,413,641; Apr. 25.
- Whipple, Ralph, assignor of one-half to C. H. Mitchell, Detroit, Mich. Plow. No. 1,416,392; May 16.
- Whipple, Walter, and G. W. Ekdahl, assignors to Nashua Manufacturing Company, Nashua, N. H. Carding machine. No. 1,439,347; Dec. 19.
- Whisenand, Omer B., assignor to Swartz Electric Company, Indianapolis, Ind. Adjusting device for throttle governors. No. 1,424,270; Aug. 1.
- Whitacre, Clarence J. (See Sturt, A. T., and Whitacre.)
- Whitacre-Greer Fire Proofing Company. (See Whitacre, John J., assignor.)
- Whitacre, John J., Canton, assignor to The Whitacre-Greer Fire Proofing Company, Waynesburg, Ohio, a Corporation of Ohio. Floor construction. No. 1,409,984; Mar. 21.
- Whitaker, Charles, Stanningley, England. Device for locking nuts on bolts. No. 1,440,324; Dec. 26.
- Whitaker, Douglas, and H. C. Baxter, Leicester, England. Tunneling machine. No. 1,403,530; Jan. 17.
- Whitaker, Frank P. (See Taylor, H. W., Clough, and Whitaker.)
- Whitaker, George, Brownwood, Tex. Combined cotton chopper and cultivator. No. 1,407,240; Feb. 21.
- Whitaker-Glessner Company. (See Bell, William M., assignor.)
- Whitaker-Glessner Company. (See Day, Edgar K., assignor.)
- Whitaker-Glessner Company. (See Gibbons, Nathan A., assignor.)
- Whitaker-Glessner Company. (See Holloway, W. W., and Kielberg, assignors.)
- Whitaker-Glessner Company. (See Kielberg, Henry, assignor.)
- Whitaker-Glessner Company. (See Long, Frederick, assignor.)
- Whitaker-Glessner Company. (See Reppetto, Harvey B., assignor.)
- Whitaker, Milton C., New York, N. Y., assignor to U. S. Industrial Alcohol Co. Liquid fuel. No. 1,405,809; Feb. 7.
- Whitaker, Milton C., New York, N. Y., assignor to U. S. Industrial Alcohol Co. Internal-combustion-engine fuel. No. 1,420,006; June 20.
- Whitaker, Milton C., New York, N. Y., assignor to U. S. Industrial Alcohol Co. Fuel for internal-combustion engines. No. 1,420,007; June 20.
- Whitaker, Milton C., New York, N. Y., assignor to U. S. Industrial Alcohol Co. Engine fuel. No. 1,421,879; July 4.
- Whitaker, Milton C., New York, N. Y., assignor to U. S. Industrial Alcohol Co. Fuel adapted for use in internal-combustion engines. No. 1,423,058; July 18.
- Whitaker, Milton C., New York, N. Y., and A. A. Backhaus, Baltimore, Md., assignors to U. S. Industrial Alcohol Co. Apparatus for producing ethylene. No. 1,402,329; Jan. 3.
- Whitaker, Milton C., New York, N. Y., and A. A. Backhaus, Baltimore, Md., assignors to U. S. Industrial Alcohol Co. Producing ethylene. No. 1,421,640; July 4.
- Whitaker, Norman T., New York, N. Y., assignor of one-fourth to H. F. Löwenstein, Washington, D. C. Telephone-exchange system. No. 1,429,003; Sept. 12.
- Whitaker, Richard, jr., assignor to Manufacturers Iron & Steel Company, New Brunswick, N. J. Bottle stopper and making the same. No. 1,434,725; Nov. 7.
- Whitaker, William H., assignor to American Atomized Fuel Company, Shelbyville, Ill. Pulverized-fuel carburetor and feeder. No. 1,424,053; July 25.
- Whitall-Tatum Company. (See Headley, B. T., and Du Bois, assignors.)
- Whitcher, R. P., et al. (See McLaughlin, Milton P., assignor.)
- Whitcomb, Frederick L., Clyde, Ohio. Can opener. No. 1,422,400; July 11.
- Whitcomb, Frederick L., Clyde, Ohio. Can opener. No. 1,429,471; Sept. 19.
- Whitcomb, Harriet H., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Vamp-locating device. No. 1,430,710; Oct. 3.
- Whitcomb, Lee, Plainfield, Ill. Piston ring. No. 1,407,714; Feb. 28.
- Whitcomb, Louie E., Chicago, Ill., assignor to International Harvester Company. Spinning and balling machine. No. 1,427,667; Aug. 29.
- White, Alexander P., Caldwell, N. J. Lathing structure. No. 1,402,028; Jan. 3.
- White, Alexander P., Caldwell, N. J. Building lath. No. 1,431,550; Oct. 10.
- White, Alexander W. (See Day, E. A., and White.)
- White American Locomotive Sander Company Incorporated. (See Frantz, James, assignor.)
- White, Arthur, et al. (See Prigan, Gustave H., assignor.)

Alphabetical list of patentees—Continued.

- White, Arthur J. (See Mitchell, E. L., and White.)
 White, Arthur W., London, Ontario, Canada. Separating device for thrashing machines. No. 1,402,984; Jan. 10.
 White, Bruce C., New York, N. Y. Multicolor-printing press. No. 1,426,431; Aug. 22.
 White, Bruce C., New York, N. Y., assignor to Federal Electric Company, Chicago, Ill. Gearing. No. 1,425,304; Aug. 8.
 White, Bruce C., New York, N. Y., assignor to Federal Electric Company, Chicago, Ill. Friction drive coupling. No. 1,425,305; Aug. 8.
 White, Charles, New York, N. Y. Adjustable bat tie. No. 1,431,070; Oct. 3.
 White, Charles E., Moline, Ill. Tilling implement. No. 1,432,143; Oct. 17.
 White, Charles E., and G. Carlson, assignors to Deere & Company, Moline, Ill. Planting mechanism. No. 1,420,170; June 20.
 White, Charles H., assignor to Deere & Company, Moline, Ill. Tool holder for cultivators. No. 1,437,032; Nov. 28.
 White, Clyde B., Buffalo, N. Y. Spark plug. No. 1,405,701; Feb. 7.
 White, Cyril J., Long Beach, Calif. Light-control switch. No. 1,432,650; Oct. 17.
 White, David E., Winchester, Kans. Farm gate. No. 1,410,980; Mar. 28.
 White, David G., Braddock Heights, Md. Fluid-current motor. No. 1,436,843; Nov. 28.
 White, D'Orsay M., assignor to La Fayette Motors Company, Indianapolis, Ind. Hood latch for motor vehicles. No. 1,414,242; Apr. 25.
 White, D'Orsay M., assignor to Cadillac Motor Car Company, Detroit, Mich. Hydrocarbon motor. No. 1,419,654; June 13.
 White, Edward L., Brooklyn, N. Y. Spring heel. No. 1,422,511; July 11.
 White, Edward N., et al., trustees. (See Eidmann, Frank L., assignor.)
 White, Edward T. (See Canell, Charles E., assignor.)
 White, Elmer C., Oceana, Calif. Brake for aircraft. No. 1,413,086; Apr. 18.
 White, Ernest M., Los Angeles, Calif. Homogenizer. No. 1,423,170; July 18.
 White, Ernest M., Los Angeles, Calif. Gas-mixing device. No. 1,426,695; Aug. 22.
 White, Ezekiel F., Detroit, Mich. Paint-shop appliance. No. 1,413,087; Apr. 18.
 White, Ezekiel F., Detroit, Mich. Drying method and means. No. 1,424,969; Aug. 8.
 White, Frank C., Meriden, Conn., assignor, by mesne assignments, to E. E. Conway, Boston, Mass., C. C. Conway, New York, N. Y., and T. P. Brown, Worcester, Mass., trustees. Motor suspension for player pianos. No. 1,439,044; Dec. 19.
 White, Frank L., Memphis, Tenn. Cotton compress. No. 1,422,014; July 4.
 White, Frank R., Montclair, N. J. Bag holder. No. 1,426,528; Aug. 22.
 White, Franklin E., Union, N. Y. Dado saw. No. 1,421,052; June 27.
 White, Franklin R., assignor to The Patent Button Company, Waterbury, Conn. Button. No. 1,417,646; May 30.
 White, Franklin R., assignor to The Patent Button Company, Waterbury, Conn. Button. No. 1,434,466; Nov. 7.
 White, Franklin R., assignor to The Patent Button Company, Waterbury, Conn. Button. No. 1,434,467; Nov. 7.
 White, Fred E., assignor to Central Oil & Gas Stove Co., Gardner, Mass. Gas stove. No. 1,419,792; June 13.
 White, Fred E., assignor to Central Oil & Gas Stove Company, Gardner, Mass. Oven door. No. 1,436,070; Nov. 21.
 White, Fred G., assignor to A. P. F. Pico, Kansas City, Mo. Autographic register. No. 1,407,907; Feb. 28.
 White, Fred G., assignor to L. R. Long, Kansas City, Mo. Power-transmission means. No. 1,437,373; Nov. 28.
 White, Frederick L., Lakewood, Ohio, assignor to J. A. Williams, Cleveland, Ohio. Alloy for electrical contacts and making same. No. 1,436,844; Nov. 28.
 White, George H., Washington, D. C., assignor to G. P. Sacks, Bradley Hills, Md. Friction drive for milk tanks. No. 1,421,641; July 4.
 White, Gilbert E., Des Moines, Iowa. Driving mechanism. No. 1,406,313; Feb. 14.
 White-Greenman Arms Company. (See White, Joseph C., assignor.)
 White, Harold C. (See Mallard, H., and White.)
 White, Harold T., Kansas City, Kans., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Operator's circuits. No. 1,411,465; Apr. 4.
 White, Harry F., Fresno, Calif. Scrip-measuring device. No. 1,407,106; Feb. 21.
 White, Harry W., Emporia, Kans. Washing machine. No. 1,440,192; Dec. 26.
 White, Harvey T. and P. H., Brooklyn, N. Y. Powder box. No. 1,437,210; Nov. 28.
 White, Henry, jr., Buffalo, N. Y. Tie form. No. 1,438,801; Dec. 12.
 White, Henry S., Chicago, Ill., assignor, by mesne assignments, to American Rotary Engine Co., Grand Rapids, Wis. Packing for rotary engines and compressors. No. 1,409,986; Mar. 21.
 White, Henry S., Chicago, and A. B. Boyer, Riverside, Ill., assignors to American Rotary Engine Co., Grand Rapids, Wis. Packing for rotary engines and compressors. No. 1,409,985; Mar. 21.
 White, Henry W., Commack, N. Y. Adhesive-applying mechanism. No. 1,407,612; Feb. 21.
 White, Herbert E., assignor to The Truscon Steel Company, Youngstown, Ohio. Metal-expanding machine. No. 1,411,543; Apr. 4.
 White, Herbert E., assignor to The Truscon Steel Company, Youngstown, Ohio. Metal-expanding machine. No. 1,417,706; May 30.
 White, Herbert E., assignor to The Truscon Steel Company, Youngstown, Ohio. Bottom-hung-sash construction. No. 1,433,441; Oct. 24.
 White, Herbert E., assignor to The Truscon Steel Company, Youngstown, Ohio. Bottom-hung-sash construction. No. 1,433,442; Oct. 24.
 White, Herbert K., Portsmouth, England. Convertible motor-car body. No. 1,420,298; June 20.
 White, Hubert T. (See O'Neill, E. J., and White.)
 White, Ida E., administratrix. (See White, Joseph B.)
 White, Ira B., Fort Worth, Tex. Grain-car-door opener. No. 1,418,343; June 6.
 White, J. Samuel, & Company Limited. (See Forster, Andrew, assignor.)
 White, J. H., Manufacturing Company. (See Kahns, Walter R., assignor.)
 White, J. H., Manufacturing Company. (See Keller, Karl, assignor.)
 White, James. (See Buckley, E., and White.)
 White, James A., Galt, Ontario, Canada. Brush handle. No. 1,416,081; May 16.
 White, James A., Galt, Ontario, Canada. Direction indicator. No. 1,420,353; June 20.
 White, James D., and D. S. Stout, Nallen, W. Va. Steam engine. No. 1,428,464; Sept. 5.
 White, James S., assignor to Allied Golf Company, Chicago, Ill. Golf bag. No. 1,423,891; July 25.
 White, James S., and J. Sekavec, assignors to G. A. Chritton, trustee, Chicago, Ill. Machine for winding golf balls. No. 1,435,771; Nov. 14.
 White, John, Sunningdale, England. Golf ball. No. 1,418,220; May 30.
 White, John A., San Francisco, Calif. Quick-detachable coupling. No. 1,428,408; Sept. 5.
 White, John F. (See Willisie, Charles F., assignor.)
 White, John H., Hollis, Okla. Computing device. No. 1,413,088; Apr. 18.
 White, John S., Wilmington, Del., assignor to L. B. Smith, Atlanta, Ga. Portable housing device. No. 1,416,146; May 16.
 White, John W., San Antonio, Tex. Brake. No. 1,417,435; May 23.
 White, John W., Detroit, Mich. Differential driving mechanism for motor vehicles. No. 1,422,401; July 11.
 White, John W., assignor to General Motors Corporation, Detroit, Mich. Tube-welding machine. No. 1,415,848; May 9.
 White, John W., assignor to General Motors Corporation, Detroit, Mich. Combined brake mechanism and spring support for motor vehicles. No. 1,431,132; Oct. 3.
 White, John W., Jr., Oakland, Calif. Bronze worm-gear mounting. No. 1,422,512; July 11.
 White, Joseph, deceased, Middlesex, N. J.; M. E. White, administratrix, assignor to Hall Printing Press Company, Dunellen, N. J. Sheet-feeding mechanism. No. 1,412,812; Apr. 11.
 White, Joseph, Piscataway Township, Union County, assignor of one-half to Hall Printing Press Company, Dunellen, N. J., and one-half to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Sheet-registering mechanism. No. 1,419,595; June 13.
 White, Joseph B., deceased, by I. E. White, administratrix, Clarion, Iowa. Seed and ground tester. No. 1,423,979; July 25.
 White, Joseph C., assignor to White-Greenman Arms Company, Boston, Mass. Automatic firearm. No. 1,410,354; Mar. 21.
 White, Joseph C., assignor to White-Greenman Arms Company, Boston, Mass. Buffer stop for firearms. No. 1,410,436; Mar. 21.
 White, Joseph R., East Orange, N. J., assignor to Graphoscope Development Company, New York, N. Y. Friction driving mechanism. No. 1,406,792; Feb. 14.
 White, Manley A., Beverly, Mass. Diving bell. No. 1,421,332; June 27.
 White, Melbourne W., Cliftondale, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Last. No. 1,404,252; Jan. 24.
 White, Melbourne W., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lining-trimming machine. No. 1,415,967; May 16.
 White, Milo R., Elkhart County, Washington Township, Ind. Steering-wheel lock. No. 1,417,647; May 30.
 White, Minnie E., administratrix. (See White, Joseph.)
 White Mop Wringer Company, The. (See Eiffe, James M., assignor.)
 White, Morris C., San Francisco, Calif., assignor to Compression-Loss Gage Company of Arizona. Compression meter. No. 1,437,830; Dec. 5.
 White Motor Company, The. (See Farmer, Frank H., assignor.)

Alphabetical list of patentees—Continued.

- White, Nelson, Des Moines, Iowa, assignor to Monroe Calculating Machine Company, New York, N. Y. Key stop. No. 1,437,286; Nov. 28.
- White, Okey M., and W. C. McCullough, assignors of one-third to A. Mathews, Muskogee, Okla. Wrench. No. 1,422,402; July 11.
- White, Otis, assignor to Sangamo Electric Company, Springfield, Ill. Mercury motor meter. No. 1,413,817; Apr. 25.
- White, Percy H. (See White, Harvey T. and P. H.)
- White, Ralph H., Cynwyd, Pa., assignor to American Telephone and Telegraph Company. Screw driver. No. 1,410,088; Mar. 21.
- White, Robert H., Everett, Wash. Aerial logging system. No. 1,411,144; Mar. 28.
- White, Robert O., assignor of one-half to J. D. Miller, Holdenville, Okla. Base block for car-wheel jacks. No. 1,430,776; Oct. 3.
- White, Robert W., Elwood, Ind., assignor to Pittsburgh Plate Glass Company. Mold for casting clay articles. No. 1,415,213; May 9.
- White, S. S., Dental Manufacturing Company, The. (See Cawse, Alfred J., assignor.)
- White, S. S., Dental Manufacturing Company, The. (See Heck, George D., assignor.)
- White, S. S., Dental Manufacturing Company, The. (See Huff, Edmund J., jr., assignor.)
- White, S. S., Dental Manufacturing Company, The. (See Porter, Will R., assignor.)
- White, S. S., Dental Manufacturing Company. (See Pyle, Clarence E., assignor.)
- White, S. S., Dental Manufacturing Company, The. (See Swartz, T. A., and Ottmyer, assignors.)
- White, S. S., Dental Manufacturing Company. (See Yearseley, Eugene W., assignor.)
- White, Samuel O., assignor to Warner Gear Company, Muncie, Ind. Clutch. No. 1,431,551; Oct. 10.
- White, Samuel O., assignor to Warner Gear Company, Muncie, Ind. Clutch release. No. 1,431,552; Oct. 10.
- White, Stanley J., assignor of forty-nine per cent to E. Levison, Cincinnati, Ohio. Gasoline-measuring device. No. 1,404,502; Jan. 24.
- White, Thomas K., Sioux Falls, S. Dak. Trench-forming machine. No. 1,419,480; June 13.
- White, Wallace, Pelham, N. Y. Relative-speed indicator. No. 1,439,137; Dec. 19.
- White, Wallace, Pelham, N. Y. Paper holder. No. 1,439,138; Dec. 19.
- White, Walter W., Brooklyn, N. Y. Self-aligned insert. No. 1,405,372; Jan. 31.
- White, William, Plainville, Mass. Detachable shoe buckle. No. 1,425,155; Aug. 8.
- White, William C., Schenectady, N. Y., assignor to General Electric Company. Constant-resistance electron-discharge device. No. 1,430,607; Oct. 3.
- White, William E., Chicago, Ill. Rib chair. No. 1,410,633; Mar. 28.
- White, William E., Chicago, Ill. Concrete insert. No. 1,410,634; Mar. 28.
- White, William E., Chicago, Ill. Concrete beam chair. No. 1,415,074; May 9.
- White, William E., Chicago, Ill. Making spacing device for reinforcing bars. No. 1,415,285; May 9.
- White, William E., Chicago, Ill. Bar-spacing device. No. 1,422,157; July 11.
- White, William G., Illoquiam, Wash. Log bunk. No. 1,424,330; Aug. 1.
- White, William H. (See Johnson, Herbert, assignor.)
- White, William M., Milwaukee, Wis. Water wheel. No. 1,418,116; May 30.
- White, William M., Milwaukee, Wis. Centrifugal pump. No. 1,418,344; June 6.
- White, William P., Buffalo Gap, Saskatchewan, Canada. Door-opening appliance. No. 1,413,642; Apr. 25.
- White, William W., Kolin, Mont. Plow or cultivator. No. 1,430,608; Oct. 3.
- Whitehead, John, Manchester, England. Window sash and window frame. No. 1,412,640; Apr. 11.
- Whitehead, Linwood M., Norfolk, Va. Barrel-tallying machine. No. 1,406,314; Feb. 14.
- Whitehead, Thomas C. (See Clark, J. H., and Whitehead.)
- Whitehead, Thomas C., Detroit, Mich. Attachment for tractors. No. 1,429,989; Sept. 26.
- Whitehead, Thomas C., Detroit, Mich. Tractor wheel. No. 1,431,203; Oct. 10.
- Whitehead, Thomas C., Detroit, Mich. Vehicle wheel. No. 1,433,164; Oct. 24.
- Whitehead Torpedo Works (Weymouth) Limited. (See Lees, E., and Parry, assignors.)
- Whitehorn, Chester A., Portage, Mont. Animal poke. No. 1,404,415; Jan. 24.
- Whitehouse, Jeremiah H., Springfield, Mass. Calendaring machine. No. 1,440,193; Dec. 26.
- Whitehouse, John N., New York, N. Y. Cigar-holder case, pipe case, or similar receptacle. No. 1,417,121; May 23.
- Whitehouse, Walter P., Whitstable, England. Construction of wear-resisting and non-slipping surfaces, such as tire covers, stair treads, or the like. No. 1,426,800; Aug. 22.
- Whitehurst, David C., and G. W. Shade, Laketon, Ind. Lock for automobiles. No. 1,402,555; Jan. 3.
- Whiteley, Howard L., Lowell, Mass. Hook hold. No. 1,402,330; Jan. 3.
- Whiteley, James W., Fairfield, Liverpool, and W. T. Mould, Wavertree, Liverpool, assignors to Whiteley, Tansley and Company, Limited, Liverpool, England. Device for spinning tops and the like. No. 1,436,634; Nov. 21.
- Whiteley, Joseph O., York, Pa., assignor to The Dentist's Supply Company. Alloy. No. 1,431,713; Oct. 10.
- Whiteley, Tansley and Company Limited. (See Whiteley, J. W., and Mould, assignors.)
- Whiteman, George W. (See Hyle, J. A., and Whiteman.)
- Whitesell, John C., jr. (See Hoy, J. F., and Whitesell.)
- Whiteside, George E., East Point, Ga. Demountable rim. No. 1,402,556; Jan. 3.
- Whiteside, John E., Alexander, La. Reenforced cement roofing. No. 1,425,564; Aug. 15.
- Whiteside, John W., New York, N. Y. Cleaner. No. 1,436,741; Nov. 28.
- Whiteside, Victor, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum gauge. No. 1,430,610; Oct. 3.
- Whitin Machine Works. (See Aldrich, William O., assignor.)
- Whiting Chain Company. (See Killion, John F., assignor.)
- Whiting Corporation. (See Rundle, Fred A., assignor.) (Reissue.)
- Whiting Corporation. (See Sjoborg, Sidney T., assignor.)
- Whiting Corporation. (See Townsend, John S., assignor.)
- Whiting-Patterson Company. (See Ball, George, assignor.)
- Whiting, Phineas S., Detroit, Mich. Tire-rim protector. No. 1,411,544; Apr. 4.
- Whiting, Phineas S., Royal Oak, Mich. Disk wheel. No. 1,412,301; Apr. 11.
- Whiting, Richard R., Norwood, Ohio. Card-exhibiting device. No. 1,436,742; Nov. 28.
- Whiting & Davis Company. (See Pratt, Alphonso C., assignor.)
- Whiting & Davis Company. (See Wiener, Henry, assignor.)
- Whitley, Howze L., Bryan, Tex. Crank-shaft-adjusting means. No. 1,427,043; Aug. 22.
- Whitley, William P., assignor to Rawlings Mfg. Co., St. Louis, Mo. Lacing tool. No. 1,406,793; Feb. 14.
- Whitley, William P., assignor to Rawlings Mfg. Co., St. Louis, Mo. Football trousers. No. 1,406,794; Feb. 14.
- Whitley, William P., assignor to Rawlings Mfg. Co., St. Louis, Mo. Thigh guard. No. 1,428,731; Sept. 12.
- Whitley, William P., assignor to Rawlings Mfg. Co., St. Louis, Mo. Baseball glove. No. 1,436,131; Nov. 21.
- Whitlock, E. D., et al. (See Whitlock, Ralph G., assignor.)
- Whitlock, M. H., et al. (See Whitlock, Ralph G., assignor.)
- Whitlock, Ralph G., assignor to E. D. Whitlock and M. H. Whitlock, Los Angeles, Calif. Loose-leaf book. No. 1,430,046; Sept. 26.
- Whitlock, Ralph G., assignor to E. D. Whitlock and M. H. Whitlock, Los Angeles, Calif. Loose-leaf book. No. 1,430,047; Sept. 26.
- Whitman, Charles F. (See Crossley, Jesse D., assignor.)
- Whitman, Charles F., assignor to Automatic Products Company, Detroit, Mich. Automatic chuck for screw machines. No. 1,425,226; Aug. 8.
- Whitman, Harry A., assignor to S. J. Whitman, Binghamton, N. Y. Vehicle signal. No. 1,423,285; July 18.
- Whitman, Selma J. (See Whitman, Harry A., assignor.)
- Whitmer, Weir M., Washta, Iowa. Headlight. No. 1,408,788; Mar. 7.
- Whitmore, John P., South Pasadena, Calif. Apparatus for making painted window-shade material. No. 1,407,241; Feb. 21.
- Whitmore, Roy E., Staunton, Va. Screw-driver attachment. No. 1,438,469; Dec. 12.
- Whitmore, William C., et al. (See Zimmer, George, assignor.)
- Whitney, Arthur E., Williamstown, Vt. Air feed for stoves. No. 1,430,609; Oct. 3.
- Whitney, Baxter D., & Son, Inc. (See Vinton, John H., assignor.)
- Whitney, Cecil A., Remuera, Auckland, New Zealand. Device for use in play or practicing certain games such as golf. No. 1,405,081; Jan. 31.
- Whitney Engineering Company, The, Norwalk, Conn. (See Whitney, L. F., and Kay, assignors.)
- Whitney, F. A., Carriage Company. (See Ambler, G. B., and Shaw, assignors.)
- Whitney, George E., Bridgeport, Conn. Bottle-capping machine. No. 1,417,874; May 30.
- Whitney, Gilbert C., New York, N. Y. Railway-traffic controlling system. No. 1,421,880; July 4.
- Whitney, L. F., Norwalk, and G. A. Kay, South Norwalk, assignors to The Whitney Engineering Company, Norwalk, Conn. Floating link coupling. No. 1,408,789; Mar. 7.
- Whitney, Loren L., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Leveling device. No. 1,404,917; Jan. 31.
- Whitney, Loren L., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Brake-supporting arrangement. No. 1,434,863; Nov. 7.
- Whitney, Loren L., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Forming brake-beam trunnions. No. 1,434,864; Nov. 7.

Alphabetical list of patentees—Continued.

- Whitney, Loren L., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Forging brake-beam trunnions. No. 1,434,865; Nov. 7.
- Whitney, Loren L., Hammond, Ind., and W. C. Hedcock, assignors to American Steel Foundries, Chicago, Ill. Brake-beam fulcrum. No. 1,434,866; Nov. 7.
- Whitney, Miles L., et al. (See Davis, Harry B., assignor.)
- Whitney, Nathaniel D., Milford, Conn. Valve for oil systems. No. 1,425,429; Aug. 8.
- Whitney, William A., Rockford, Ill. Screw punch. No. 1,403,366; Jan. 10.
- Whitney, William A., assignor of one-half to F. S. Vander Bogart and one-half to H. A. Merlien, Rockford, Ill. Ball bearing. No. 1,403,367; Jan. 10.
- Whitredge, John C., and J. C. Larsen, assignors to The Buckeye Steel Castings Co., Columbus, Ohio. Brake-hanger support for trucks. No. 1,415,132; May 9.
- Whitson, John W. (See Parker, T. H., Gassaway, and Whitson.)
- Whittaker, Bert C., Winfield, Kans. Safety pipe puller. No. 1,435,772; Nov. 14.
- Whittaker, Charles C., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Braking system. No. 1,430,711; Oct. 3.
- Whittaker, Cyrus A., Freeburg, Ill. Method and apparatus for separating onion from wheat. No. 1,406,127; Feb. 7.
- Whittaker-Glessner Company. (See Gibbons, Nathan A., assignor.)
- Whittaker, James B., Rochester, N. Y. Nut and bolt lock. No. 1,406,315; Feb. 14.
- Whittaker, John, Wilshire, R. Bradshaw, and J. Briggs, deceased, Rishton, near Blackburn; M. Briggs, administratrix, assignor to P. S. Stott, Oldham, Lancaster, England. Welt-replenishing mechanism for looms. No. 1,431,348; Oct. 10.
- Whittaker, John A., Detroit, Mich. Latch. No. 1,427,991; Sept. 5.
- Whittaker, John L., Winthrop, assignor to Miller Trolley Shoe Company, Boston, Mass. Current collector. No. 1,407,010; Feb. 21.
- Whittaker, John L., Winthrop, assignor to Miller Trolley Shoe Company, West Newton, Mass. Trolley shoe. No. 1,411,893; Apr. 4.
- Whittam, Thomas, West Kendall, N. Y. Fruit trimmer and slicer. No. 1,408,051; Feb. 28.
- Whitted, Howard F., Santa Paula, Calif. Ball and socket device. No. 1,425,730; Aug. 15.
- Whitted, Thomas B., Charlotte, N. C. Automatic control of motor-driven pump speeds. No. 1,411,145; Mar. 28.
- Whittekin, Homer T., Alhambra, Calif. Power transmission for rotary drills. No. 1,405,241; Jan. 31.
- Whittlemore, Allan P., Charleston, W. Va. Apparatus for drawing glass. No. 1,415,133; May 9.
- Whittlemore, James, Detroit, Mich., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Apparatus for drawing sheet glass. No. 1,425,225; Aug. 8.
- Whittlemore, James, Detroit, Mich., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Method and apparatus for making continuous sheet glass. No. 1,436,421; Nov. 21.
- Whitten, Frank A., assignor to General Motors Corporation, Detroit, Mich. Supporting mechanism for gear casings. No. 1,406,316; Feb. 14.
- Whitten, Frank A., assignor to General Motors Corporation, Detroit, Mich. Muffler. No. 1,422,403; July 11.
- Whitten, George E., et al. (See Wyckoff, Clyde E., assignor.)
- Whitten, Stahl A. (See Ballman, Edwin C., assignor.)
- Whitten, Walter, Schenectady, N. Y. Phonograph reproducer. No. 1,407,613; Feb. 21.
- Whittier, Horace R., Plymouth, Conn. Oven thermometer. No. 1,432,936; Oct. 24.
- Whittingham, George H. (See Holmes, W. T., and Whittingham.)
- Whittingham, George H., Baltimore, Md. Ignition-circuit controller. No. 1,414,912; May 2.
- Whittingham, George H., Baltimore, Md. Ignition-circuit controller. No. 1,414,913; May 2.
- Whittingham, George H., assignor to Monitor Controller Company, Baltimore, Md. Thermal cut-out device. No. 1,422,802; July 11.
- Whittington, Frederick G., assignor to Stewart-Warner Speedometer Corp., Chicago, Ill. Electric socket device for vehicle lamps. No. 1,411,947; Apr. 4.
- Whittle, Mark A., assignor to V. L. Wells, San Francisco, Calif. Combination lock for steering wheels. No. 1,412,022; Apr. 4.
- Whitton, William W., Oakland, Calif. Automobile construction and attachment. No. 1,403,881; Jan. 17.
- Whomes, Francis H. (See Whomes, George and F. H.)
- Whomes, George and F. H., Los Angeles, Calif. Metal-faced automobile curtain light. No. 1,427,250; Aug. 29.
- Whyte, David, Gisborne, New Zealand. Conversion of sulphate of lead water paste into oil paste. No. 1,419,655; June 13.
- Whyte, Frederick M., Tarrytown, N. Y. Car end construction. No. 1,408,234; Feb. 28.
- Whyte, Isabella B., Wolseley, Saskatchewan, Canada. Mop. No. 1,437,789; Dec. 5.
- Whyte, John, Chicago, Ill., assignor to Warner-Patterson Company. Light-controlling device. No. 1,427,504; Aug. 29.
- Whyte, John, Chicago, Ill., assignor to Warner-Patterson Company. Headlight. No. 1,427,505; Aug. 29.
- Whyte, John N., San Paulo, Brazil. Means for tipping wagons and other vehicles. No. 1,402,466; Jan. 3.
- Wiard, Frederick, assignor to American Standard Tool Company, Detroit, Mich. Milling cutter. No. 1,428,308; Sept. 5.
- Wiberg, Charles A., Duluth, Minn. Shock absorber. No. 1,416,537; May 16.
- Wiberg, Charles A. and V. B., Duluth, Minn., assignors to Wiberg Manufacturing Company. Spring shock absorber. No. 1,406,706; Feb. 14.
- Wiberg Manufacturing Company. (See Wiberg, Charles A. and V. B., assignors.)
- Wiberg, Victor B. (See Wiberg, Charles A. and V. B.)
- Wichers, Peter H., Russell, and C. J. Boeger, Topeka, Kans. Photographic background-printing frame. No. 1,409,629; Mar. 14.
- Wichman, Frank S. (See Otis, S., and Wichman.)
- Wichman, Frank S., Chicago, Ill. Separator for boiler-washing systems. No. 1,416,538; May 16.
- Wichmann, John C., Los Angeles, Calif. Making a rubber-like material. No. 1,435,359; Nov. 14.
- Wichmann, John C., Los Angeles, Calif. Making rubber-like material. No. 1,435,360; Nov. 14.
- Wick, Louis J., Highland, Ill. Valve action for organs. No. 1,403,930; Jan. 17.
- Wick, Olaf M., Valley City, N. Dak. Dumping truck. No. 1,429,004; Sept. 12.
- Wickersham, Elmer E., Stockton, Calif. Air cleaner. No. 1,407,968; Feb. 28.
- Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Land torpedo. No. 1,407,969; Feb. 28.
- Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Truck-compensating mechanism. No. 1,407,970; Feb. 28.
- Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Positive-reduction clutch. No. 1,407,971; Feb. 28.
- Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor. No. 1,407,972; Feb. 28.
- Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor-frame suspension. No. 1,407,973; Feb. 28.
- Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Self-laying-track tractor. No. 1,413,147; Apr. 18.
- Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Chain track tractor. No. 1,413,148; Apr. 18.
- Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Construction for traction engines. No. 1,429,472; Sept. 19.
- Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor-frame suspension. No. 1,429,473; Sept. 19.
- Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor-frame suspension. No. 1,429,474; Sept. 19.
- Wickersham, Elmer E., Oakland, assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor main frame and suspension. No. 1,429,475; Sept. 19.
- Wicks Boiler Company, The. (See Baker, John F. L., assignor.)
- Wickey, Bertram B., East Chicago, Ind. Apparatus for reclaiming paper and paraffin wax. No. 1,431,553; Oct. 10.
- Wickham, John C., assignor to The Wickham Piano Plate Company, Springfield, Ohio. Molding apparatus. No. 1,439,776; Dec. 26.
- Wickham, Piano Plate Company, The. (See Wickham, John C., assignor.)
- Wicks, George I., Flint, Mich. Clutch. No. 1,438,073; Dec. 5.
- Wicks, John, assignor to Automatic Electric Company, Chicago, Ill. Semi-automatic telephone system. No. 1,404,416; Jan. 24.
- Wicks, John, assignor to Automatic Electric Company, Chicago, Ill. Telephone trunk circuit. No. 1,412,435; Apr. 11.
- Wicks, Kirk E., trustee. (See Noel, C. J., and Hicks, assignors.)
- Wicks, Maurice A., assignor to Kelvinator Corporation, Detroit, Mich. Ice pan. No. 1,407,614; Feb. 21.
- Wicks, Maurice A., assignor to Kelvinator Corporation, Detroit, Mich. Thermostat. No. 1,429,476; Sept. 19.
- Wickson, John A., Victoria, British Columbia, Canada. Building block. No. 1,416,919; May 23.
- Wickstrom, Alfred, Minneapolis, Minn., assignor of one-fourth to F. Bain and one-fourth to J. E. Bain. Tamping machine. No. 1,408,668; Mar. 7.
- Wickstrom, Charles A., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Semiautomatic coil-winding mechanism. No. 1,430,869; Oct. 3.
- Wickwire, Bertram M., Carbondale, Pa. Safety fastener. No. 1,404,818; Jan. 31.
- Wickwire Spencer Steel Corporation. (See Southwick, William S., assignor.)

Alphabetical list of patentees—Continued.

- Widell, Magnus E., Maywood, Ill., assignor to American Can Company, New York, N. Y. Feeding device for slitters. No. 1,418,117; May 30.
- Widenham, Allen W., Oakland, Calif. Vehicle curtain construction and mounting. No. 1,414,681; May 2.
- Widmaier, Harry J., Philadelphia, Pa. Clutch. No. 1,425,156; Aug. 8.
- Widmann, Eugene A., Brooklyn, N. Y., assignor to Pathe Freres Phonograph Company. Talking-machine needle or stylus. No. 1,409,630; Mar. 14.
- Widmayer, Frank B., New York, N. Y. Electric iron. No. 1,409,181; Mar. 7.
- Widme, Joseph, Twin Valley, Minn. Water drain for gasoline tanks. No. 1,430,425; Sept. 26.
- Widmeier, Louis, et al. (See Heller, Jesse B., assignor.)
- Widmer, Charles A., Paterson, N. J. Drill press. No. 1,424,538; Aug. 1.
- Widmer, Kate M. (See Mitchell, Ardon M., assignor.)
- Widney Company, The. (See Widney, Stanley W., assignor.)
- Widney, Stanley W., assignor to The Widney Company, Chicago, Ill. Instrument for measuring hardness and resiliency. No. 1,408,554; Mar. 7.
- Wids Company. (See Wood, George C., assignor.)
- Wiechert, George A., New York, N. Y. Tooth protector for dental clasps. No. 1,426,935; Aug. 22.
- Wiechmann, Marie H., New York, N. Y. Hosiery. No. 1,437,123; Nov. 28.
- Wiedeke, Gustav. (See Wiedeke, Otto, assignor.)
- Wiedeke, Otto, assignor of one-half to Gustav Wiedeke. Dayton, Ohio. Tube expander. No. 1,404,819; Jan. 31.
- Wieder, John. (See Schwartz, A., and Wieder.)
- Wiederwax, Robert W., assignor of one-half to C. Geist, Atlantic City, N. J. Preheater. No. 1,402,331; Jan. 3.
- Wiederwax, Robert W., assignor to Geist Manufacturing Company, Atlantic City, N. J. Burner. No. 1,405,242; Jan. 31.
- Wiederwax, Robert W., assignor to Geist Manufacturing Company, Atlantic City, N. J. Heating device for the water-circulation systems of the engines of automobiles. No. 1,412,325; Apr. 11.
- Wiegand, Edwin L., Pittsburgh, Pa. Emplacing apparatus. (Reissue.) No. 15,479; Oct. 24.
- Wiegand, Frank. (See Knorr, August, assignor.)
- Wiegand, Hugo O., Philadelphia, Pa., assignor to H. W. Butterworth & Sons Company. Cloth clamp for textile machinery. No. 1,426,432; Aug. 22.
- Wiehl, Alfred, Brooklyn, N. Y. Phonograph-record rack. No. 1,402,332; Jan. 3.
- Wiehl, Alfred, Brooklyn, N. Y. Phonograph-record cabinet. No. 1,424,054; July 25.
- Wiehle, Edward W. (See Hardin, R. S., and Wiehle.)
- Wielage, Marcus F., Cleveland, Ohio. Dirigible spotlight. No. 1,434,468; Nov. 7.
- Wieland, Louis A., Banksville, Pa. Window guard. No. 1,438,202; Dec. 12.
- Wieneke, Eric F. (See Sokolov, J., and Wieneke.)
- Wieneke, Eric F., assignor to Packard Motor Car Company, Detroit, Mich. Grinding machine. No. 1,409,208; Mar. 14.
- Wieneke, John E., Union, Mo. Measuring grocery bin. No. 1,419,338; June 13.
- Wiener, David, New York, N. Y. Merchandise-display device. No. 1,436,330; Nov. 21.
- Wiener, Henry, New York, N. Y., assignor, by mesne assignments, to Whiting & Davis Company, Plainville, Mass. Hand bag. No. 1,407,310; Feb. 21.
- Wiener, Mervin G. (See Wiener, William and M. G.)
- Wiener, Milton M. (See Benson, M. P., and Wiener.)
- Wiener, William and M. G., Newark, N. J. Buckle. No. 1,405,471; Feb. 7.
- Wiepcke, Marques, Brooklyn, N. Y. Ceiling. No. 1,430,481; Sept. 26.
- Wiesbrock, Joseph E., Naperville, Ill. Governor for Fordson tractors. No. 1,411,545; Apr. 4.
- Wiese, Edward W., sr., St. Louis, Mo. Machine for shaping crush work. No. 1,424,789; Aug. 8.
- Wiesenberg, Nat., New York, N. Y. Manicure implement. No. 1,426,696; Aug. 22.
- Wieser, Karl, Werdon, assignor to Fried. Krupp Aktien-Gesellschaft, Essen-on-the-Ruhr, Germany. Padlock. No. 1,410,148; Mar. 21.
- Wiesman, Frank J., assignor to The Weis Fibre Container Corporation, Monroe, Mich. Paper box. No. 1,406,707; Feb. 14.
- Wiest, Frederick C. (See Ramsdell, J. W., and Wiest.)
- Wiet, Eugene. (See Levin, W. S., and Wiet.)
- Wietzel, Gustave. (See Mittasch, A., Jannek, and Wietzel.)
- Wiford, Elza E., Sidney, Ohio. Automatic stop for talking machines. No. 1,404,078; Jan. 17.
- Wigin, Charles L., Neenah, assignor to Toy Company of America, Appleton, Wis. Wheeled toy. No. 1,413,510; Apr. 18.
- Wiggins, Charles W., Brewster, Fla. Conveyor belt. No. 1,438,566; Dec. 12.
- Wiggins, Clarence E., Delhi, La. Wheel. No. 1,403,824; Jan. 17.
- Wiggins, Dallas B. (See McClellan, John, assignor.)
- Wiggins, Edwards J., Buffalo, and E. S. Hebel, Williamsville, assignors to F. W. Allan, Buffalo, N. Y. Alternating-current arc-welding apparatus. No. 1,411,394; Apr. 4.
- Wiggins, Frank, Knoxville, Tenn. Instrument for handling dental clamps. No. 1,438,975; Dec. 19.
- Wiggins, Owen D., Laurel, Ind. Spray pump. No. 1,403,140; Jan. 10.
- Wigginson, George P., assignor to Kalamazoo Loose Leaf Binder Company, Kalamazoo, Mich. Binder. No. 1,410,788; Mar. 28.
- Wigington, George P., assignor to Kalamazoo Loose Leaf Binder Co., Kalamazoo, Mich. Temporary binder. No. 1,439,777; Dec. 26.
- Wigington, George P., assignor to The Kalamazoo Loose Leaf Binder Co., Kalamazoo, Mich. Temporary binder. No. 1,439,778; Dec. 26.
- Wigington, George P., assignor to Kalamazoo Loose Leaf Binder Co., Kalamazoo, Mich. Temporary binder. No. 1,439,779; Dec. 26.
- Wight, Sedwick N., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Signaling system for single-track roads. No. 1,427,882; Sept. 5.
- Wigwall, Joseph S., Jr., and O. E. McClellan, Payson, Utah. Hydraulic clutch. No. 1,418,761; June 6.
- Wigtil, Albert N., Walcott, N. Dak. Grooving plane. No. 1,433,321; Oct. 24.
- Wiggell, Charles H., Ballinger, Tex. Radiator or tank cap. No. 1,434,322; Oct. 31.
- Wijnberg, Abraham, assignor to General Norit Company Limited, Amsterdam, Netherlands. Drying, burning, and recovering finely-divided material. No. 1,440,194; Dec. 26.
- Wijnberg, Abraham, assignor to General Norit Company Limited, Amsterdam, Netherlands. Apparatus for drying, burning, and recovering finely-divided materials. No. 1,440,195; Dec. 26.
- Wikander, Oscar R., Pittsburgh, Pa., assignor to The Skayef Ball Bearing Company, Hartford, Conn. Planetary gear. No. 1,425,430; Aug. 8.
- Wikel, Henry S., and M. F. Thatcher, York, Pa. Apparatus for preparing stock food. No. 1,420,008; June 20.
- Wikle, Hugh H., Chicago, Ill. Electrolytic cell and operating the same. No. 1,402,986; Jan. 10.
- Wilber, Carl L., assignor to The Jefferson Forge Products Co., Detroit, Mich. Method and apparatus for balancing crank shafts and the like. No. 1,428,620; Sept. 12.
- Wilber, Nelson, and W. Fritze, Drewsey, Ore. Posthole auger. No. 1,411,895; Apr. 4.
- Wilberts, Martin E., assignor to Hawaiian Pineapple Company, Limited, Honolulu, Hawaii. Can-feeding apparatus. No. 1,430,132; Sept. 26.
- Wilbur, Bertrand K., Haverford, assignor to H. O. Wilbur & Sons, Inc., Philadelphia, Pa. Device for filling cartons or boxes. No. 1,415,075; May 9.
- Wilbur, Frederick H., assignor of one-fourth to G. A. Reynolds and one-fourth to S. W. Reynolds, Binghamton, N. Y. Vehicle wheel. No. 1,415,751; May 9.
- Wilbur, H. O., & Sons, Inc. (See Wilbur, Bertrand K., assignor.)
- Wilbur, William, Council Bluffs, Iowa. Intake-manifold valve lock. No. 1,438,802; Dec. 12.
- Wilburger, William, Brooklyn, N. Y. Loose-leaf book. No. 1,437,329; Nov. 28.
- Wilckes-Martin-Wilckes Company. (See Frost, Warren H., assignor.)
- Wilcomb, J. Frank, Worcester, Mass., assignor to Spartan Needle Company, Providence, R. I. Overthrow guard for knitting instruments. No. 1,403,931; Jan. 17.
- Wilcox, George S., Burkburnett, Tex. Pump valve. No. 1,418,043; May 30.
- Wilcox, Henry M., assignor to F. C. L. D'Aix, Chicago, Ill. Method of and apparatus for recovering copper. No. 1,416,147; May 16.
- Wilcox, John L., Seattle, Wash. Ironing board. No. 1,406,515; Feb. 14.
- Wilcox, Lewis T., Peekskill, N. Y. Grate for gas and oil stoves. No. 1,408,235; Feb. 28.
- Wilcox, Lewis T., Peekskill, N. Y. Liquid-fuel stove. No. 1,409,631; Mar. 14.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Header. No. 1,405,174; Jan. 31.
- Wilcox, Richard L., assignor to the Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Machine for cutting blanks. No. 1,408,916; Mar. 7.
- Wilcox, Richard L., assignor to the Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Forming nuts. No. 1,408,917; Mar. 7.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Bifurcating blanks. No. 1,424,539; Aug. 1.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Bifurcating blanks. No. 1,424,540; Aug. 1.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Bifurcating blanks. No. 1,429,990; Sept. 26.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Feed stop. No. 1,437,578; Dec. 5.
- Wilcox, Robert B., The Dallas, Ore., assignor to Libby, McNeill & Libby, Chicago, Ill. Fruit pitter. No. 1,421,333; June 27.
- Wilcox, William J., New Hampton, N. Y. Milk strainer. No. 1,413,442; Apr. 18.
- Wilcox, William K., Manhattan, Nev. Placer machinery. No. 1,429,005; Sept. 12.

Alphabetical list of patentees—Continued.

- Wild, Frank X., Amherst, Wis. Closet. No. 1,419,339; June 13.
- Wild, Henry E., Glendive, Mont. Watchcase screw. No. 1,436,743; Nov. 28.
- Wild, William, Blackpool, assignor of one-half to West's Gas Improvement Company Limited, Manchester, England. Heating of vertical retorts for the distillation of carbonaceous materials. No. 1,427,426; Aug. 29.
- Wilde, Adolph, Bellflower, Ill. Tractor coupling. No. 1,423,785; July 25.
- Wilde, Marie V., New York, N. Y. Heelless overshoe. No. 1,425,731; Aug. 15.
- Wilden, Albert, Cologne, Germany. Typing apparatus for labels. No. 1,433,493; Oct. 24.
- Wilder, Eugene, Boulder, Colo. Aeroplane. No. 1,424,055; July 25.
- Wilder, Laurence R. (See Miller, John A., assignor.)
- Wilder Manufacturing Company. (See Wilder, William S. A., assignor.)
- Wilder, Merton. (See Frost, Ivan J., assignor.)
- Wilder, William S. A., assignor to Wilder Manufacturing Company, Vallejo, Calif. Device for removing and replacing railway ties. No. 1,403,277; Jan. 10.
- Wilder, William T., St. Paul, Minn. Vehicle wheel. No. 1,418,221; May 30.
- Willey, Edward M., London, England. Machine for use in relieving, cutting, shaping, profiling, and like processes. No. 1,434,078; Oct. 31.
- Wildman, George C., Wolverhampton, England. Engine starter. No. 1,408,669; Mar. 7.
- Wildman Manufacturing Company. (See Ballard, George L., assignor.)
- Wildman Mfg. Co. (See Howie, K., and Taylor, assignors.)
- Wildman Manufacturing Company. (See Howie, Kenneth, assignor.)
- Wile, Jerome. (See McCarthy, Florence, assignor.) (Reissue.)
- Wiles, Edwin B., Chicago, Ill. Gear-shift mechanism. No. 1,424,790; Aug. 8.
- Wiles, Edwin B., Kansas City, Mo. Combined motor and transmission control. No. 1,436,422; Nov. 21.
- Wiley, Clarence F., Taunton, Mass., assignor to Magee Furnace Company, Inc., Boston, Mass. Combination coal and gas range. No. 1,407,715; Feb. 28.
- Wiley, Clarence F., Taunton, assignor to Magee Furnace Company, Boston, Mass. Stove. No. 1,426,433; Aug. 22.
- Wiley, Henry T., Cake, Oreg. Ore mill and the like. No. 1,404,560; Jan. 24.
- Wilhelm, Adolph J., Ashland, Wis. Dust collector. No. 1,429,006; Sept. 12.
- Wilhelm, Karl F., Stralsund, Germany. Oil and like extractor. No. 1,438,503; June 6.
- Wilhelm, Raymond H., Chicago, Ill. Safety razor. No. 1,440,325; Dec. 26.
- Wilhelmi, Otto, Kiel, Germany. Exploding projectile for artillery purposes. No. 1,435,773; Nov. 14.
- Wilhelms, Harry, Philadelphia, Pa. Valve. No. 1,416,590; May 16.
- Wilhelms, Harry, Philadelphia, Pa. Valve. No. 1,416,591; May 16.
- Wilk, Abe, assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Spring seat. No. 1,427,183; Aug. 29.
- Wilke, Karl, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Anthraquinone derivatives and making same. No. 1,417,875; May 30.
- Wilken, George. (See Priesthoff, John B., assignor.)
- Wilker, Arthur V., Berea, Ohio, assignor to National Carbon Company, Inc. Depolarizer for dry cells. No. 1,434,469; Nov. 7.
- Wilkes, Benjamin A. (See Brewster, William P., assignor.)
- Wilkes-Casey Engineering and Contracting Company, The. (See De Santo, David, assignor.)
- Wilkes, Frederick C., Douglas, and F. K. Flynn, Watertown, Wis., assignors, by mesne assignments, to Luce Cane Harvester Corporation, New York, N. Y. Conveyer-chain guide for cane harvesters and the like. No. 1,429,991; Sept. 26.
- Wilkes, Frederick C. D., Watertown, Wis., assignor to Luce Cane Harvester Corporation, New York, N. Y. Tank-valve construction. No. 1,434,939; Nov. 7.
- Wilkes, Samuel G., assignor to E. Wallace & Sons Mfg. Co., Wallingford, Conn. Insulated handle for vessels. No. 1,436,466; Nov. 21.
- Wilkie, Boyd, Mount Vernon, N. Y. Spray. No. 1,405,810; Feb. 7.
- Wilkie, Boyd, Mount Vernon, N. Y. Sprinkler for filtering systems, etc. No. 1,409,268; Mar. 14.
- Wilkie, James A. (See Campbell, Edward D., assignor.)
- Wilkie, James B., Cressington Park, Liverpool, and F. E. Bagnall, Westminster, London, England. Apparatus for handling material in bulk. No. 1,431,497; Oct. 10.
- Wilkie, Theodore. (See Parker, J., and Wilkie.)
- Wilkin, Carl J., San Jose, Calif. Water-closet seat. No. 1,412,436; Apr. 11.
- Wilkin, Joseph N., Hillsboro, Ohio. Harrow. No. 1,425,819; Aug. 15.
- Wilking, Frank O., Indianapolis, Ind. Phonograph-record album. No. 1,431,714; Oct. 10.
- Wilkins, Clyde H., Lyndon, Ill. Football game apparatus. No. 1,412,987; Apr. 18.
- Wilkins, Harry R., Greenville, S. C. Writing and studying chair. No. 1,435,774; Nov. 14.
- Wilkins, James M., assignor to A. Mueller, trustee, Decatur, Ill. Pressure regulator. No. 1,410,089; Mar. 21.
- Wilkins Sylvester S. (See Smith, J. T., Wilkins, and Manning.)
- Wilkins, Thomas E., Cullman, Ala. Stalk cutter. No. 1,436,071; Nov. 21.
- Wilkinson, Elmer E., and S. Aronson, assignors to The Silent Motor Corporation, Brooklyn, N. Y. Speed-regulating mechanism for spring motors. No. 1,402,985; Jan. 10.
- Wilkinson, Howard O., Kingfisher, Okla. Cotton spacer. No. 1,402,819; Jan. 10.
- Wilkinson, Jabez, Fall River, Mass. Harness-operating device for looms. No. 1,417,220; May 23.
- Wilkinson, James, Schenectady, N. Y., assignor to General Electric Company. Shaft bearing. No. 1,426,936; Aug. 22.
- Wilkinson, James, Schenectady, N. Y., assignor to General Electric Company. Coupling. No. 1,434,759; Nov. 7.
- Wilkinson, James, and E. D. Dickinson, assignors to General Electric Company, Schenectady, N. Y. Gearing. No. 1,403,531; Jan. 17.
- Wilkinson, Jesse, Winnipeg, Manitoba, Canada. Oil burner. No. 1,422,907; July 18.
- Wilkinson, John, assignor to H. H. Franklin Manufacturing Company, Syracuse, N. Y. Vaporizer or carburetor for internal-combustion engines and vaporizing the motive fluid for such engines. No. 1,424,541; Aug. 1.
- Wilkinson, John F., Gardner, Mass. Manually-propelled vehicle. No. 1,420,799; June 27.
- Wilkinson, John J., Worcester, Mass. Wrench. No. 1,403,825; Jan. 17.
- Wilkinson, Lee, Sour Lake, Tex. Lifting device. No. 1,417,436; May 23.
- Wilkinson, Joseph R., E. A. Barnard, and L. E. Booth, Anaconda, Mont., assignors of forty-two and one-half per cent to said Wilkinson, forty-two and one-half per cent to said Barnard, and fifteen per cent to said Booth. Dewatering and settling tank feeder. No. 1,428,929; Sept. 12.
- Wilkinson, Paul H., Seattle, Wash. Hose clamp. No. 1,413,818; Apr. 25.
- Will, Charles J., Granite City, Ill. Sausage-linking machine. No. 1,419,529; June 13.
- Will, Charles L., St. Louis, Mo. Deodorizer. No. 1,432,582; Oct. 17.
- Will, Fritz, Alton, Ill. Fountain mop. No. 1,434,176; Oct. 31.
- Will, Louis. (See Cone, Ralph R., assignor.)
- Will, Victor R., Lodi, Calif. Suction-operated gas-saving valve. No. 1,413,089; Apr. 18.
- Will, Victor R., assignor to P-A-T-S Manufacturing Company, Lodi, Calif. Direction signal for motor vehicles. No. 1,420,299; June 20.
- Will & Baumer Candle Company, The. (See Grossmann, Robert, assignor.)
- Will & Baumer Company. (See Kreuzer, William C., assignor.)
- Willard, Charles F., New York, N. Y., assignor to L-W-F. Engineering Company, Inc., College Point, Long Island, N. Y. Landing gear for aeroplanes. No. 1,418,762; June 6.
- Willard, Donald E., Decatur, Ill. Charging truck. No. 1,411,652; Apr. 4.
- Willard, John C. (See Carter, F. R., Otten, and Willard.)
- Willard, Maurice L., assignor to The Superior Type Company, Chicago, Ill. Band stamp. No. 1,405,811; Feb. 7.
- Willard Storage Battery Company. (See Cook, Thomas R., assignor.)
- Willard Storage Battery Co. (See Lormor, Henry W., assignor.)
- Willard Storage Battery Company. (See Willard, Theodore A., assignor.)
- Willard, Theodore A., Cleveland Heights, Ohio. Making storage-battery containers. No. 1,421,748; July 4.
- Willard, Theodore A., East Cleveland, Ohio. Storage battery. No. 1,425,924; Aug. 15.
- Willard, Theodore A., East Cleveland, assignor to Willard Storage Battery Company, Cleveland, Ohio. Paste for storage-battery plates. No. 1,432,508; Oct. 17.
- Will-Burt Company, The. (See Clark, Albert A., assignor.)
- Willcox, Frederick H., assignor to Freyn, Brassert & Company, Chicago, Ill. Gas burner. No. 1,436,132; Nov. 21.
- Willcox, George B., Saginaw, Mich. Liquid-measuring machine. No. 1,402,820; Jan. 10.
- Willcox, William, Camp Chase, Ohio. Loading machine. No. 1,431,857; Oct. 10.
- Willcox & Gibbs Sewing Machine Co. (See Tucker, L. M., and Hatfield, assignors.)
- Wille, Carl C., Brooklyn, N. Y. Clamp. No. 1,404,674; Jan. 24.
- Wille, Walter O., Waterloo, Iowa. Lathe-tool holder. No. 1,420,171; June 20.
- Wille, Walter O., Waterloo, Iowa. Signaling device for vehicles. No. 1,430,777; Oct. 3.

Alphabetical list of patentees—Continued.

- Willeby, Charles and G., Lewes, England. Carburetor for use with internal-combustion engines. No. 1,433,054; Oct. 24.
- Willeby, Guy. (See Willeby, Charles and G.)
- Willems, Henry J., Kenosha, Wis. Dispensing device. No. 1,433,768; Oct. 31.
- Willenborg, John J., Pawnee, Ill. Ventilated fruit and vegetable case. No. 1,407,107; Feb. 21.
- Willett, Alfred H. (See Himmelright, R. J., and Willett.)
- Willett, Alfred H., West New York, N. J., assignor to American Arch Company, New York, N. Y. Locomotive firebox. No. 1,402,198; Jan. 3.
- Willett, Alfred H., West New York, N. J., assignor to American Arch Company, New York, N. Y. Fire-brick arch and brick therefor. No. 1,433,583; Oct. 31.
- Willett, Benedict E., Dayton, Ohio. Stepladder. No. 1,439,388; Dec. 19.
- Willett, Benedict E., Dayton, Ohio. Stepladder. No. 1,439,389; Dec. 19.
- Willett, Charles G., Toronto, Ontario, Canada. Steering apparatus for motor vehicles. No. 1,438,734; Dec. 12.
- Willett, Charles W., Seattle, Wash. Headblock for sawmill carriages. No. 1,404,820; Jan. 31.
- Willett, Leon E., Detroit, Mich. Steering wheel. No. 1,417,122; May 23.
- Willett, Tomaso J., Louisville, Ky. Automobile and vehicle locking device. No. 1,416,393; May 16.
- Willett, William H., New Richmond West, Quebec, Canada. Stovetop. No. 1,409,324; Mar. 14.
- Willey, Martin T., Lead, S. Dak. Valve-stem attachment. No. 1,420,898; June 27.
- Willhoite, Elmer T., Woodruff, Mo. Screen-door construction. No. 1,431,071; Oct. 3.
- William Carter Company. (See Drumbeller, William P., assignor.)
- William Gent Vending Machine Company, The. (See Larson, Arnold, assignor.)
- Williams, Abe, et al. (See Floyd, William E., assignor.)
- Williams, Albert H., assignor to Ionite Storage Battery Company, Worcester, Mass. Nonfluid electrolytes for storage batteries. No. 1,403,462; Jan. 10.
- Williams, Alfred and L. D., London, England. Telephonic receiver. No. 1,405,472; Feb. 7.
- Williams, Allen, assignor of one-half to L. P. Campbell, Brady, Tex. Hose coupling. No. 1,432,583; Oct. 17.
- Williams, Amos, Sawtelle, Calif. Lawn sprinkler. No. 1,418,763; June 6.
- Williams, Arba L., Utica, N. Y. Banjo. No. 1,407,108; Feb. 21.
- Williams, Arthur, Connersville, Ind. Permutation lock. No. 1,412,437; Apr. 11.
- Williams, Arthur F., assignor to Williams Patent Crusher and Pulverizer Co., St. Louis, Mo. Crusher. No. 1,414,799; May 2.
- Williams, Arthur G., Grantwood, N. J., assignor to The Barrett Company. Production of dicarboxylic acid. No. 1,423,980; July 25.
- Williams, Benjamin S., Nashville, Tenn. Percolator. No. 1,403,724; Jan. 17.
- Williams, Benjamin S., Nashville, Tenn. Cake or biscuit cutter. No. 1,421,749; July 4.
- Williams Brothers Manufacturing Company, The. (See Pinney, George H., assignor.)
- Williams, Brown T., San Francisco, Calif. Toy gun. No. 1,421,334; June 27.
- Williams, Calvin C., Philadelphia, Pa. Power-transmission mechanism. No. 1,424,542; Aug. 1.
- Williams, Charles E., Chicago, Ill. Portable audiphone transmitter. No. 1,439,212; Dec. 19.
- Williams, Charles B., assignor to William L. Gilbert Clock Company, Winsted, Conn. Metal clock. No. 1,418,895; June 6.
- Williams, Charles H., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam support. No. 1,406,915; Feb. 14.
- Williams, Charles H., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam release and support. No. 1,423,892; July 25.
- Williams, Charles H., and E. G. Busse, assignors to Chicago Railway Equipment Company, Chicago, Ill. Brake beam. No. 1,421,881; July 4.
- Williams, Charles J., Pocatello, Idaho. Extracting device for automobiles. No. 1,408,323; Feb. 28.
- Williams, Charles J., Seattle, Wash. Trap nest. No. 1,419,340; June 13.
- Williams, Charles M., San Diego, Calif. Bin. No. 1,408,054; Feb. 28.
- Williams, Charles P., Cleveland, Ohio. Floor-scrubbing board. No. 1,416,429; May 16.
- Williams, Charles R., Courtney, Pa. Paper-hanging machine. No. 1,413,443; Apr. 18.
- Williams, Charles W., jr., Montclair, N. J. Automatic safety fender for motor vehicles. No. 1,429,055; Sept. 12.
- Williams, Chester C., Bloomington, Ill. Valve. No. 1,438,203; Dec. 12.
- Williams, Chester L. (See Osborne, John W., assignor.)
- Williams, Clarence P., Syracuse, Ohio. Slip socket. No. 1,417,648; May 30.
- Williams, Clarence S. A. (See Haupt, William F., assignor.)
- Williams, Clyde E., Niagara Falls, assignor to Hooker Electrochemical Company, New York, N. Y. Preparing aqueous solutions of antimony trichloride. No. 1,425,565; Aug. 15.
- Williams, David, New Orleans, La. Tree protector. No. 1,415,134; May 9.
- Williams, Delavergne P. and J. F., Sandusky, Ohio. Plug-in attachment. No. 1,417,649; May 30.
- Williams, Earl J., Geary, Okla. Splicing tool. No. 1,422,803; July 11.
- Williams, Edward, Smethwick, England. Ball bearing. No. 1,426,236; Aug. 15.
- Williams, Edward H. (See Roeling, H. W., Williams, and Bauer.)
- Williams, Elbert L., assignor of one-half to R. A. Mertens, Fort Madison, Iowa. Rod coupling. No. 1,431,072; Oct. 3.
- Williams, Eli, Ingallston, Mich. Detachable emergency tread. No. 1,402,987; Jan. 10.
- Williams, Ellis H., assignor to The A. J. Deer Company, Incorporated, Hornell, N. Y. Material holder for slicing machines. No. 1,404,821; Jan. 31.
- Williams, Elmer R., Springfield, Mo. Combined steamer, still, and burner for battery repairing. No. 1,433,055; Oct. 24.
- Williams Foundry and Machine Co., The. (See Holcomb, Frank E., assignor.)
- Williams, Francis H., Boston, Mass. Pliers. No. 1,427,668; Aug. 29.
- Williams, Frank C., Montello, Nev. Combined lamp and matchbox. No. 1,403,278; Jan. 10.
- Williams, Frank C., Salt Lake City, Utah. Closure plug. No. 1,420,899; June 27.
- Williams, Frank C., Salt Lake City, Utah. Combined seat and bed. No. 1,429,390; Sept. 19.
- Williams, Frank C., Philadelphia, Pa., assignor to The Safety Block Signal Company. Combined train stopping and speed-controlling mechanism. No. 1,435,775; Nov. 14.
- Williams, Frank C., Wildwood, N. J., assignor to The Safety Block Signal Company. Train stopping and speed-controlling mechanism. No. 1,435,776; Nov. 14.
- Williams, Frank P., Detroit, Mich. Sheet-metal drawer. No. 1,404,503; Jan. 24.
- Williams, Frank P., Detroit, Mich. Sheet-metal bed. No. 1,414,765; May 2.
- Williams, Frank P., Detroit, Mich. Drag link for steering gears. No. 1,418,044; May 30.
- Williams, Frank P., Detroit, Mich. Sheet-metal cabinet. No. 1,419,481; June 13.
- Williams, Frank P., Detroit, Mich. Drag link. No. 1,429,705; Sept. 19.
- Williams, Frank W., Chicago, Ill. Phonograph turntable. No. 1,410,234; Mar. 21.
- Williams, Franklin F., St. Louis, Mo. Shoe heel. No. 1,404,822; Jan. 31.
- Williams, Franklin S. (See Green, J. R., Williams, and Lavallée.)
- Williams, Fred, and L. H. Stenvig, Bellingham, Wash. Horizontal bar. No. 1,410,149; Mar. 21.
- Williams, Fred, Bellingham, assignor to The Perfecto Gear Differential Co., Seattle, Wash. Stump puller. No. 1,404,253; Jan. 24.
- Williams, Frederic C., Coronado Beach, Calif. Valve turning and grinding machine. No. 1,416,920; May 23.
- Williams, Frederic S. (See Smith, W. S., and Williams.)
- Williams, French B., and B. F. Adams, Dallas, Tex. Cotton-cleaning apparatus. No. 1,407,504; Feb. 21.
- Williams, George A., Decatur, Ill. Bottle cap. No. 1,430,133; Sept. 26.
- Williams, George E., J. E. Stultz, Stone, Ky., and R. E. Hill, Roanoke, Va. Coal auger. No. 1,437,033; Nov. 28.
- Williams, George H., Burnside, Ky. Flat for egg and other cases. No. 1,425,820; Aug. 15.
- Williams, George H., assignor to Boston Clip and Tag Company, Boston, Mass. Machine for attaching laundry tags. No. 1,426,330; Aug. 15.
- Williams, George L., New York, N. Y., assignor to G. F. Stewart, Pasadena, Calif. Building construction. No. 1,421,335; June 27.
- Williams, George R., Dover, N. H. Printing press. No. 1,438,282; Dec. 12.
- Williams, Glen L., Detroit, Mich. Rust remover. No. 1,439,780; Dec. 26.
- Williams, Grant, Patchogue, N. Y. Device for studying finger prints and their classification. No. 1,425,157; Aug. 8.
- Williams, Griffith E., Cambria, Wis. Motor sled. No. 1,407,974; Feb. 28.
- Williams, Guy R., San Francisco, Calif. Tire construction. No. 1,421,115; June 27.
- Williams, Harold E., Washington, D. C. Electric-lamp lock. No. 1,427,883; Sept. 5.
- Williams, Harry, Vancouver, British Columbia, Canada. Permutation padlock. No. 1,413,209; Apr. 18.
- Williams, Harry C., Adrian, Mich. Stropping apparatus. No. 1,439,934; Dec. 26.
- Williams, Harvey, Wallingford, Conn., assignor, by mesne assignments, to Security Trust Company, Detroit, Mich. Cutting longitudinally-curved teeth on gear wheels. No. 1,404,504; Jan. 24.

Alphabetical list of patentees—Continued.

- Williams, Harvey D., Wallingford, Conn., assignor, by mesne assignments, to Security Trust Company, Detroit, Mich. Cutting gears. No. 1,404,505; Jan. 24.
- Williams, Henry E., Lakeside, Wash. Toy. No. 1,408,670; Mar. 7.
- Williams, Henry L. S., Montreal, Quebec, Canada, assignor to Western Electric Company, Incorporated, New York, N. Y. Attachment for telephone hook switches. No. 1,418,764; June 6.
- Williams, Herbert H. (See Ostrander, A. E., and Williams.)
- Williams, Herbert H., East Orange, N. J. Account card for insurance companies and the like. No. 1,435,436; Nov. 14.
- Williams, Herbert H., assignor to T. E. Murray, Brooklyn, N. Y. Journal box. No. 1,413,549; Apr. 18.
- Williams, Horace M., Providence, R. I., assignor to Electrol Manufacturing Company. Making electric storage batteries. No. 1,417,007; May 23.
- Williams, Howard M., Boulder, Colo. Loose-leaf sheet. No. 1,405,882; Feb. 7.
- Williams, Israel, Lima, Ohio. Flying machine. No. 1,408,918; Mar. 7.
- Williams, J. H., & Company. (See Bufford, George W., assignor.)
- Williams, J. H., & Co. (See Trabold, Frank W., assignor.)
- Williams, J. K. (See Glasner, John, assignor.)
- Williams, Jackson G., Council Bluffs, Iowa. Ventilator. No. 1,433,769; Oct. 31.
- Williams, James H., Baltimore, Md. Grand piano. No. 1,416,248; May 16.
- Williams, James H., Baltimore, Md. Piano. No. 1,424,606; Aug. 1.
- Williams, James P., Milton, Pa. Building brick. No. 1,404,823; Jan. 31.
- Williams, James P., Milton, Pa. Building block. No. 1,405,644; Feb. 7.
- Williams, James P., St. Louis, Mo. Building brick. No. 1,409,632; Mar. 14.
- Williams, Jerome L. (See Williams, William S. and J. L.)
- Williams, Jesse J., Utica, N. Y. Toy vehicle. No. 1,412,381; Apr. 11.
- Williams, Jessie B., Graniteville, S. C. Bearing. No. 1,429,663; Sept. 19.
- Williams, John C., Chicago, Ill. Towel rack. No. 1,431,611; Oct. 10.
- Williams, John F. (See Williams, Delavergne P. and J. F.)
- Williams, John H., East Cleveland, Ohio, assignor to The Outlook Company, Cleveland, Ohio. Means for connecting two elements. No. 1,422,158; July 11.
- Williams, John L. (See Stewart, D. N., and Williams.)
- Williams, John M., Jr., Montclair, N. J. Air-cooled internal-combustion engine. No. 1,405,883; Feb. 7.
- Williams, John M., Jr., Greenwich, Conn. Valve mechanism for internal-combustion engines. No. 1,435,777; Nov. 14.
- Williams, John P., New York, N. Y. Electric protection system. No. 1,436,926; Nov. 28.
- Williams, John R., Rochdale, England. Separator for ring-spinning and like machines. No. 1,408,324; Feb. 28.
- Williams, John R., Walnutport, Pa. Educational game. No. 1,414,849; May 2.
- Williams, Joseph A. (See White, Frederick L., assignor.)
- Williams, Joseph A., Oakland, Calif. Oil burner. No. 1,435,778; Nov. 14.
- Williams, Joseph F., De Funiak Springs, Fla. Crosscut-saw handle. No. 1,422,015; July 4.
- Williams, Joseph N., Pukeatua, and H. C. Middleton, Te Awamutu, New Zealand. Vacuum-operated cow milker. No. 1,428,670; Sept. 12.
- Williams, Joseph S., Riverton, N. J. Wheel equipment and constructing same. No. 1,417,008; May 23.
- Williams, Joseph S., Riverton, N. J. Resilient tire. No. 1,420,674; June 27.
- Williams, Keith, Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand brake. No. 1,439,390; Dec. 19.
- Williams, Laurin L., Oneida, Kans. Tire patch. No. 1,425,925; Aug. 15.
- Williams, Leo D. (See Williams, Alfred and L. D.)
- Williams, Leslie S., and B. Kerr, Wichita Falls, Tex. Spark plug. No. 1,424,700; Aug. 1.
- Williams, Lewis L., Minneapolis, Minn. Centrifugal clothes-wringer cover. No. 1,413,643; Apr. 25.
- Williams, Louis B., Dayton, Ohio. Automatic electric power and light system. No. 1,403,216; Jan. 10.
- Williams, Lynn A., et al., trustees. (See Stephenson, Leigh J., assignor.)
- Williams, Mae R., St. Louis, Mo. Toy. No. 1,420,597; June 20.
- Williams, Mark C. (See Aker, J. C., and Williams.)
- Williams, Mason L., Weleetka, Okla. Coin-controlled mechanism. No. 1,410,635; Mar. 28.
- Williams Mfg. Co. (See Williams, William G., assignor.)
- Williams, Michael J., Buffalo, N. Y. Hairpin. No. 1,410,981; Mar. 28.
- Williams, Milton F. (See Plaisted, Harold M., assignor.)
- Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Cage for reducing machines. No. 1,408,055; Feb. 28.
- Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Roller-breaker plate for reducing machines. No. 1,410,437; Mar. 21.
- Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Breaker roll for reducing machines. No. 1,410,636; Mar. 28.
- Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Reducing fibrous sheet material. No. 1,417,961; May 30.
- Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Feed grinder. No. 1,419,089; June 6.
- Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Crusher and pulverizer. No. 1,420,354; June 20.
- Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Bar cages for grinders. No. 1,420,355; June 20.
- Williams, Milton F., assignor of forty-nine one-hundredths to H. M. Plaisted, St. Louis, Mo. Pulley. No. 1,423,476; July 18.
- Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Coved pivoted hammer. No. 1,424,225; Aug. 1.
- Williams, Milton F., assignor of forty-nine one-hundredths to H. M. Plaisted, St. Louis, Mo. Flexible facing for pulleys. No. 1,434,239; Oct. 31.
- Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Crusher. No. 1,439,781; Dec. 26.
- Williams Motors Inc. (See Shaw, Louis E., assignor.)
- Williams, Noel E., Canyon, Tex. Piston. No. 1,424,701; Aug. 1.
- Williams, Oliver J., Burlingame, Calif., assignor to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Feed-reducing machine. No. 1,402,199; Jan. 3.
- Williams, Owen J., Orchard Park, N. Y. Socket wrench. No. 1,413,444; Apr. 18.
- Williams Patent Crusher & Pulverizer Company. (See Campbell, Edward B., assignor.)
- Williams Patent Crusher and Pulverizer Company. (See Cornwall, Frederick R., assignor.)
- Williams Patent Crusher and Pulverizer Company. (See Davidson, William M., assignor.)
- Williams Patent Crusher & Pulverizer Company. (See Gillespie, Alexander, assignor.)
- Williams Patent Crusher & Pulverizer Company. (See Plaisted, Harold M., assignor.)
- Williams Patent Crusher and Pulverizer Company. (See Williams, Arthur F., assignor.)
- Williams Patent Crusher & Pulverizer Company. (See Williams, Milton F., assignor.)
- Williams Patent Crusher & Pulverizer Co. (See Williams, Oliver J., assignor.)
- Williams, Paul F., Chicago, Ill. Device for use in connection with movable furniture. No. 1,433,922; Oct. 31.
- Williams, Percy N., New York, N. Y. Symetroscope. No. 1,435,998; Nov. 21.
- Williams, Ralph A., and A. J. Wagner, Beloit, Wis. Shoulder brace. No. 1,406,795; Feb. 14.
- Williams, Ralph E., Los Angeles, Calif. Clamp for spotlight brackets and the like. No. 1,416,148; May 16.
- Williams, Ralph E., Los Angeles, Calif. Bracket and limiting device for spotlights. No. 1,419,431; June 13.
- Williams, Ralph E., Los Angeles, Calif. Spotlight. No. 1,430,134; Sept. 26.
- Williams, Ralph E., Los Angeles, Calif. Regulating bracket for movable lights. No. 1,430,135; Sept. 26.
- Williams, Reginald V., Buffalo, N. Y. Dental clasp. No. 1,412,224; Apr. 11.
- Williams, Richard H., Richmond, Ind. Electric motor. No. 1,432,584; Oct. 17.
- Williams, Robert, Oshawa, Ontario, Canada. Piano. No. 1,439,935; Dec. 26.
- Williams, Robert L., Newton, Mass., assignor to Submarine Signal Company, Portland, Me. Sound detection particularly adapted for coast defense. No. 1,411,948; Apr. 4.
- Williams, Robert R., Roselle, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Insulating composition. No. 1,415,076; May 9.
- Williams, Robert R., Roselle, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Covering machine. No. 1,419,090; June 6.
- Williams, Robert R., Roselle, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Rubber composition. No. 1,438,735; Dec. 12.
- Williams, Robert X., Taylor, Miss. Gate-operating means. No. 1,436,845; Nov. 28.
- Williams, Roland G., Bridgeport, Conn. Pole mounting. No. 1,430,136; Sept. 26.
- Williams, Roland T. D. (See Avery, D., Stevens, and Williams.)
- Williams, Samuel, Toledo, Ohio. Paper holder. No. 1,423,286; July 18.
- Williams, Samuel A., Lockport, N. Y. Tile. No. 1,433,863; Oct. 31.
- Williams, Samuel A., Lockport, N. Y. Corrugated sheet of fiber concrete and making it. No. 1,433,864; Oct. 31.
- Williams, Samuel A., Lockport, N. Y. Curved-surfaced body of fiber-cement concrete and molding it. No. 1,435,905; Nov. 14.
- Williams, Samuel A., Lockport, N. Y. Apparatus for molding fiber cement concrete bodies characterized by curved cross section. No. 1,435,906; Nov. 14.

- Williams, Samuel B., Jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone system. No. 1,413,368; Apr. 18.
- Williams, Samuel B., Jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,435,950; Nov. 21.
- Williams, Samuel B., Jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,438,736; Dec. 12.
- Williams, Samuel B., Jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,439,213; Dec. 19.
- Williams, Samuel B., Jr., Brooklyn, and A. B. Sperry, New York, assignors to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone-exchange system. (Reissue.) No. 15,310; Mar. 14.
- Williams, Sheldon A., assignor of one-half to Harry F. Wheaton, Des Moines, Iowa. Tool. No. 1,408,961; Mar. 7.
- Williams, Simon F. (See Hart, Walter V., assignor.)
- Williams, Theodosius A., Portland, Ore. Flash-light stand. No. 1,403,725; Jan. 17.
- Williams, Thomas F., D. W. Coy, and H. B. Pruden, assignors to Powdered Coal Engineering and Equipment Company, Chicago, Ill. Apparatus for carbureting air. No. 1,409,325; Mar. 14.
- Williams, Thomas W., Pittsburgh, Pa. Car wheel. No. 1,423,381; July 18.
- Williams, Viger J., Chicago, Ill. Door latch. No. 1,439,348; Dec. 19.
- Williams, W. S. and J. L., Portland, Me. Handling groups of flat pieces in laundries. No. 1,406,516; Feb. 14.
- Williams, Walter, Plymouth, England. Extra-air valve for internal-combustion engines. No. 1,438,416; Dec. 12.
- Williams, Walter F. (See Morse, W. N., and Williams.)
- Williams, White & Company. (See Kline, George P., assignor.)
- Williams, William, Toronto, Ontario, Canada. Combined safety catch and point protector for brooch pins. No. 1,406,708; Feb. 14.
- Williams, William, Dugger, Ind. Closure fastener. No. 1,408,236; Feb. 28.
- Williams, William, Murumbeena, assignor of one-sixth to S. R. Fairclough, Toorak, Victoria, Australia. Lifting jack. No. 1,404,824; Jan. 31.
- Williams, William A. (See Coxon, S., and Williams.)
- Williams, William A., assignor to The North British Rubber Company, Limited, Edinburgh, Scotland. Balloon fabric and the like. No. 1,427,708; Aug. 29.
- Williams, William B., Greenville, S. C. Whip roll for looms. No. 1,414,850; May 2.
- Williams, William E., Chicago, Ill. Metal disk wheel. No. 1,402,029; Jan. 3.
- Williams, William E., Chicago, Ill. Steel-rim wheel. No. 1,402,030; Jan. 3.
- Williams, William E., Chicago, Ill. Disk-wheel construction. No. 1,402,031; Jan. 3.
- Williams, William E., Wilmette, Ill. Steel disk wheel for automobiles. No. 1,402,032; Jan. 3.
- Williams, William E., Chicago, Ill. Disk wheel for automobiles. No. 1,405,645; Feb. 7.
- Williams, William E., Chicago, Ill. Disk automobile wheel. No. 1,405,646; Feb. 7.
- Williams, William E., Chicago, Ill. Reenforced disk wheel. No. 1,405,647; Feb. 7.
- Williams, William E., Chicago, Ill. Disk wheel. No. 1,405,648; Feb. 7.
- Williams, William E., Chicago, Ill. Tubular-spoked wheel. No. 1,408,790; Mar. 7.
- Williams, William E., Chicago, Ill. Sheet-steel wheel. No. 1,410,044; Mar. 21.
- Williams, William E., Chicago, Ill. Fabricated wheel for automobiles. No. 1,410,045; Mar. 21.
- Williams, William E., Chicago, Ill. Demountable disk wheel. No. 1,410,046; Mar. 21.
- Williams, William E., Chicago, Ill. Demountable tubular-spoked wheel. No. 1,410,047; Mar. 21.
- Williams, William E., Chicago, Ill. Preparing bases for rubber tires and other purposes. No. 1,412,326; Apr. 11.
- Williams, William E., Chicago, Ill. Vehicle disk wheel. No. 1,416,149; May 16.
- Williams, William E., Chicago, Ill. Quick-detachable dust cap for pneumatic tires. No. 1,421,642; July 4.
- Williams, William E., Chicago, Ill. Cast wheel for automobiles. No. 1,421,643; July 4.
- Williams, William E., Chicago, Ill. Highway road. No. 1,423,893; July 25.
- Williams, William E., Wilmette, Ill. Bumper for automobiles. No. 1,423,894; July 25.
- Williams, William E., Chicago, Ill. Hub demountable double disk wheel. No. 1,425,926; Aug. 15.
- Williams, William E., Chicago, Ill. Demountable wheel for automobiles. No. 1,427,926; Sept. 5.
- Williams, William E., Chicago, Ill. Metal disk wheel. No. 1,427,927; Sept. 5.
- Williams, William E., Wilmette, Ill. Automobile bumper. No. 1,427,928; Sept. 5.
- Williams, William E., San Francisco, Calif. Game board. No. 1,430,778; Oct. 3.
- Williams, William E., Chicago, Ill. Automobile truck wheel. No. 1,435,437; Nov. 14.
- Williams, William E., Chicago, Ill. Pipe-spoked wheel. No. 1,439,459; Dec. 19.
- Williams, William E., Wilmette, Ill. Reenforced disk wheel. No. 1,439,460; Dec. 19.
- Williams, William G., assignor to The Williams Mfg. Co., Inc., Elgin, Ill. Tilttable chiropractic table. No. 1,435,037; Nov. 7.
- Williams, William M., Seattle, Wash. Causing fecundation of plants. No. 1,438,803; Dec. 12.
- Williams, William M., assignor of one-half to W. W. Allington, Reno, Nev. Gate valve for sand and gravel dumps. No. 1,428,732; Sept. 12.
- Williams, William R., Owensboro, Ky. Velocipede. No. 1,419,341; June 13.
- Williams, William R., New York, N. Y. Vehicle suspension. No. 1,426,529; Aug. 22.
- Williams, William R., Philadelphia, Pa. Vehicle suspension. No. 1,427,081; Aug. 22.
- Williams, William R., Philadelphia, Pa. Vehicle suspension. No. 1,427,992; Sept. 5.
- Williams, William W. (See Cock, Roger B., assignor.)
- Williams, Winfield, assignor to Patterson-Williams Mfg. Co., San Jose, Calif. Amusement device. No. 1,426,624; Aug. 22.
- Williamson, Charles H. S., Chicago, Ill. Multiple-shelf incinerator. No. 1,416,430; May 16.
- Williamson, Clarence H., Bellwood, Pa. Hopper-door mechanism. No. 1,423,287; July 18.
- Williamson, Colonel J., assignor to Williamson Machine Company, San Francisco, Calif. Apparatus for washing and cleaning eggs. No. 1,423,059; July 18.
- Williamson, Edward H., Philadelphia, Pa. Lunch kit or the like. No. 1,438,417; Dec. 12.
- Williamson, Edward H., and T. N. Richardson, Philadelphia, Pa.; said Richardson assignor to said Williamson. Lunch kit. No. 1,420,598; June 20.
- Williamson, Ernest S., Melbourne, Australia. Spring lift for stoopers. No. 1,409,326; Mar. 14.
- Williamson, Francis O., Chicago, Ill. Crushing mill. No. 1,413,644; Apr. 25.
- Williamson, Frank E., Glasco, Kans. Alternating rotary gearing. No. 1,420,599; June 20.
- Williamson, G. H., & Sons, Limited. (See Drury, Frank, assignor.)
- Williamson, Henry M., Chicago, Ill. Radio receiving apparatus. No. 1,439,495; Dec. 19.
- Williamson, J. C. (See Stewart, Frank G., assignor.)
- Williamson, James C., Cordele, Ga. Self-anchoring stump extractor. No. 1,406,317; Feb. 14.
- Williamson, James C., Cordele, Ga. Cable lock. No. 1,425,732; Aug. 15.
- Williamson, James C., Cordele, Ga. Stump puller. No. 1,433,165; Oct. 24.
- Williamson, James E., South Orange, N. J. Filter-bottom construction. No. 1,429,477; Sept. 19.
- Williamson, James O., assignor to The Sweet Dreams Co., Montgomery, Ala. Bottle stopper and cap. No. 1,438,075; Dec. 5.
- Williamson, John A., Denver, Colo. Safety razor. No. 1,415,077; May 9.
- Williamson, John A., Denver, Colo. Finger-grasping safety razor. No. 1,417,437; May 23.
- Williamson, John E. (See Olson, J. A., and Williamson.)
- Williamson Machine Company. (See Williamson, Colonel J., assignor.)
- Williamson, Robert B., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Dynamo-electric machine. No. 1,418,856; June 6.
- Williamson, Robert B., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Dynamo-electric machine. No. 1,418,857; June 6.
- Williamson, Samuel B., Westport, Conn. Diaphragm for sound-producing instruments. No. 1,418,998; June 6.
- Williamson, Samuel S., Philadelphia, Pa. Grease cup. No. 1,432,818; Oct. 24.
- Williamson, Seaman A., Point Richmond, Calif. Aeroplane. No. 1,407,505; Feb. 21.
- Williamson, Varnum, Glens Falls, N. Y. Painting mixture. No. 1,418,416; June 6.
- Williamson, Walter, New York, N. Y., assignor to Crosby Steam Gate & Valve Company, Boston, Mass. Counter. No. 1,426,434; Aug. 22.
- Williamson, William R., Chicago, Ill. Chart. No. 1,418,765; June 6.
- Willen, Maurice F., and H. Delpierre, New York, N. Y. Expanding brake. No. 1,440,258; Dec. 26.
- Willig, Fred W., Gervais, Ore. Detachable extension rim for tractor wheels. No. 1,414,537; May 2.
- Willigman, Glen A. (See Justice, I. M., and Willigman.)
- Willmann, Edwin, Oakland, Calif. Training apparatus. No. 1,436,846; Nov. 28.
- Willmantie Knitting Company. (See Green, Howard W., assignor.)
- Willis, Charles, Vincennes, assignor of one-half to L. M. Barrett, Indianapolis, Ind. Gear and wheel puller. No. 1,409,506; Mar. 14.
- Willis, Edward J. (See Starnes, E. C., and Willis.)
- Willis, Edward J., Richmond, Va. Planimeter. No. 1,404,180; Jan. 17.
- Willis, Edward J., Richmond, Va. Lathe tool. No. 1,419,432; June 13.
- Willis, Herman E. and R. M., Chanute, Kans. Oil-well pump jack. No. 1,428,671; Sept. 12.

Alphabetical list of patentees—Continued.

- Willis, Herman S., Wilmington, Del. Trousers-creasing device. No. 1,409,633; Mar. 14.
- Willis, Le Roy W., Montville, N. J., assignor to Railroad Accessories Corporation, New York, N. Y. Battery. No. 1,437,287; Nov. 28.
- Willis, Lewis C. (See Lofland, Alfred M., assignor.)
- Willis, Prior F., St. Louis, Mo. Torch. No. 1,408,673; Mar. 7.
- Willis, Reuben M. (See Willis, Herman R. and R. M.)
- Willis, Warren E., assignor to E. I. Franklin & Co., North Attleboro, Mass. Locket. No. 1,412,765; Apr. 11.
- Willis, Will B. (See Merker, Henry F., assignor.)
- Willison, Thomas H., Rochester, N. Y. Clamp for soldering eaves troughs. No. 1,440,196; Dec. 26.
- Willison, Walter W., Hastings, assignor to Thermokept Products Corporation, New York, N. Y. Treating vegetables in preparation for canning. No. 1,421,750; July 4.
- Willix, Enos B., Mount Vernon, Iowa. Voting machine. No. 1,425,352; Aug. 8.
- Willkie, Herman F., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Varnish paint or cement and making the same. No. 1,408,325; Feb. 28.
- Willman, Gust, Flint, Mich. Poultry-feeding device. No. 1,409,434; Mar. 14.
- Willman-Seaver Morgan Company, The. (See Grant, William T., assignor.)
- Willmann, Ernest F., Palatine, and W. Kuersten, Chicago, Ill. Egg crate. No. 1,430,205; Sept. 26.
- Willmann, Hans, Berlin, Germany, assignor to A. K. Ihli, Elektroteknisk Versted, Christiania, Norway. Overload switch. No. 1,403,217; Jan. 10.
- Willmott, James D., assignor to William H. Horn & Brother, Incorporated, Philadelphia, Pa. Kneecap or elbow bandage. No. 1,428,465; Sept. 5.
- Willner, Sigmund. (See Dederich, W., and Willner.)
- Willoughby, Edward F., and E. M. B. Revill, Wellington, New Zealand. Stay for casement and like windows. No. 1,405,082; Jan. 31.
- Willoughby, Villa B., Seattle, Wash. Music chart. No. 1,412,587; Apr. 11.
- Willour, Lawren L., Wooster, Ohio. Combined hay rack and wagon. No. 1,402,988; Jan. 10.
- Willows, Ernest T., London, England, and W. J. Austin, Swansea, Wales; said Willows assignor to said W. J. Austin. Life-saving float. No. 1,410,438; Mar. 21.
- Willows, Richard S., Manchester, F. T. Pollitt, Worsley, and T. Leach, Manchester, England. Production of pattern effects in cotton and other vegetable fiber fabrics, also including silk. No. 1,411,598; Apr. 4.
- Wills, Childe H. (See Halvorson, Cromwell, A. B., jr., assignor.)
- Wills, Childe H., Marysville, Mich. Bearing assembly. No. 1,421,644; July 4.
- Wills, Childe H., Marysville, Mich. Means for silencing crank shafts. No. 1,430,344; Sept. 26.
- Wills, Childe H., Marysville, Mich. Gear wheel. No. 1,436,787; Nov. 28.
- Wills, Donald R., Washington Court House, Ohio. Charge-forming device. No. 1,408,671; Mar. 7.
- Wills, Marion C., Platte City, Mo. Adjustable draft mechanism. No. 1,408,672; Mar. 7.
- Wills, Walter B., Baltimore, Md. Collapsible bag holder. No. 1,424,387; Aug. 1.
- Wills, William H., Jr., Charleroi, Pa. Nozzle. No. 1,426,136; Aug. 15.
- Willis, Charles F., assignor of one-half to J. F. White, Spokane, Wash. Knife wiper. No. 1,435,077; Nov. 7.
- Willson, Andrew E. (See Willson, Mabel W. and A. E.)
- Willson, Frederick, and H. F. Shindel, assignors to Willson Goggles Inc., Reading, Pa. Eye-protector attachment for spectacles. No. 1,433,690; Oct. 31.
- Willson Goggles Inc. (See Willson, F., and Shindel, assignors.)
- Willson, Mabel W. and A. E., Grand Rapids, Mich. Powder puff. No. 1,423,745; July 25.
- Willson, Oscar, Springfield, and E. F. Piwczynski, Holyoke, Mass. Valve-seat cutter. No. 1,414,060; Apr. 25.
- Willstätter, Richard, Munich, O. Wolfes, and H. Maeder, Darmstadt, Germany. Tropinone monocarboxylic acid esters and preparation of same. No. 1,419,091; June 6.
- Willstätter, Richard, W. Duisberg, Munich, and T. Callen, Elberfeld, assignors to Farbenfabriken vorm. Friedr. Bayer and Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Urethane of the trichloroethyl alcohol. No. 1,427,506; Aug. 29.
- Willys Corporation. (See Dodge, Ralph L., assignor.)
- Willys Corporation. (See Post, Truman W., assignor.)
- Willys-Morrow Company, The. (See Knowles, Harford C., assignor.)
- Willys-Morrow Company, The. (See Lutz, Hans, assignor.)
- Willys-Overland Company, The. (See Barbeau, Harry M., assignor.)
- Willys-Overland Company, The. (See Belden, Edward H., assignor.)
- Willys-Overland Company. (See Brockway, Carl P., assignor.)
- Willys-Overland Company, The. (See Brown, Garnet C., assignor.)
- Willys-Overland Company, The. (See Duket, Henry T., assignor.)
- Willys-Overland Company, The. (See Edwards, Henry J., assignor.)
- Willys-Overland Company, The. (See Gordon, William R., assignor.)
- Willys-Overland Company, The. (See Gravel, Albundius, assignor.)
- Willys-Overland Co., The. (See Green, Charles F., assignor.)
- Willys-Overland Company, The. (See Harrington, William F., assignor.)
- Willys-Overland Company, The. (See Holmes, Edward, assignor.)
- Willys-Overland Company, The. (See Jerdone, Francis, Jr., assignor.)
- Willys-Overland Company, The. (See Kamper, Edward, assignor.)
- Willys-Overland Company, The. (See Kehoe, Thomas J., assignor.)
- Willys-Morrow Company, The. (See Knowles, Harford C., assignor.)
- Willys-Overland Company, The. (See Lightner, A. D., and Holmes, assignors.)
- Willys-Overland Company, The. (See Lindsey, Harry W., Jr., assignor.)
- Willys-Overland Company, The. (See McCulla, William R., assignor.)
- Willys-Overland Company, The. (See McKinley, Charles W., assignor.)
- Willys-Overland Company, The. (See Miller, John C., assignor.)
- Willys-Overland Company, The. (See Pomeroy, Percy W., assignor.)
- Willys-Overland Company, The. (See Rhoads, Harry E., assignor.)
- Willys-Overland Company, The. (See Snell, Lyle K., assignor.)
- Willys-Overland Company. (See Thompson, F. H., and Holmes, assignors.)
- Willys-Overland Company, The. (See Walters, Dean A., assignor.)
- Willys-Overland Company, The. (See Wilk, Abe, assignor.)
- Wilmarth Show Case Co. (See Morris, Edmund, assignor.)
- Wilming, Otto A. (See Burke, J. H., and Wilming.)
- Wilmort Manufacturing Company. (See Humphreys, William, assignor.)
- Wilmot Engineering Company. (See Steinbach, John J., assignor.)
- Wilmot, John F., Detroit, Mich. Disk wheel. No. 1,423,060; July 18.
- Wilmoth, Warren A. (See Froman, O., and Wilmoth.)
- Wilmotte, Joseph, Ciney, Belgium. Milking machine. No. 1,408,326; Feb. 28.
- Wilms, Gustav O., assignor to The Reliance Company, Milwaukee, Wis. Adjustable-speed starting device for electric motors and the like. No. 1,431,349; Oct. 10.
- Wilms, Lee W. V., Chicago, Ill. Combined bunion guard and foot support. No. 1,402,557; Jan. 3.
- Wilms, William G., San Pedro, Calif. Tractor. No. 1,416,539; May 16.
- Wiloch, Stefan, Schenectady, N. Y. Padlock. No. 1,424,543; Aug. 1.
- Wilputte, Alice A., et al. (See Hubbell, John E., assignor.)
- Wilputte, Alice A., et al. (See McIntire, Charles V., assignor.)
- Wilputte, Alice A., et al. (See Pavitt, William H., jr., assignor.)
- Wilputte, Alice A. (See Wilputte, Louis, assignor.)
- Wilputte, Louis, et al. (See Hubbell, John E., assignor.)
- Wilputte, Louis, et al. (See McIntire, Charles V., assignor.)
- Wilputte, Louis, et al. (See Pavitt, William H., jr., assignor.)
- Wilputte, Louis, assignor of two-thirds to A. A. Wilputte, New Rochelle, N. Y. Standpipe connection. No. 1,414,492; May 2.
- Wilputte, Louis, assignor of two-thirds to A. A. Wilputte, New Rochelle, N. Y. Coke-oven decarbonization. No. 1,435,361; Nov. 14.
- Wilson, Alexander, Blyth, England. Wrist strap. No. 1,408,919; Mar. 7.
- Wilson, Alexander V., Bar Harbor, Me. Driving means for spring motors. No. 1,405,649; Feb. 7.
- Wilson, Alfred R., assignor to Hutchins Car Roofing Company, Detroit, Mich. Running-board saddle. No. 1,433,322; Oct. 24.
- Wilson, B. O. & G. C., Inc. (See Hill, Wilford A., assignor.)
- Wilson Brothers. (See Heaton, Clarence E., assignor.)
- Wilson Bros. Mfg. Company. (See Wilson, Tom, assignor.)
- Wilson, Byron E., assignor to The Eymon Crossing Company, Marion, Ohio. Railway crossing. (Reissue.) No. 15,391; June 20.
- Wilson, Calvin W., Winchester, Ind. Liquid-level indicator. No. 1,431,204; Oct. 10.
- Wilson, Charles C., Dayton, Ohio. Building material. No. 1,413,819; Apr. 25.
- Wilson, Charles C., Kings Mountain, N. C. Controlling device for ring rails. No. 1,431,498; Oct. 10.
- Wilson, Charles F., Dallas, Tex. Water heater. No. 1,411,466; Apr. 4.
- Wilson, Charles H., et al. (See Lichtenberger, Joseph A., assignor.)

Alphabetical list of patentees—Continued.

- Wilson, Charles H., Mount Vernon, and C. J. Brown, North Pelham, assignors to Wilson-Maeulen Company, Incorporated, New York, N. Y. Electrical resistance thermometer. No. 1,411,396; Apr. 4.
- Wilson, Charles W., Lawton, Okla. Amusement device. No. 1,418,999; June 6.
- Wilson, Charlie B., Tampa, Fla. Tray for incubators and brooders. No. 1,436,744; Nov. 28.
- Wilson, Cora E., executrix. (See Wilson, John M.)
- Wilson Cotton Chopper Company. (See Wilson, James W., assignor.)
- Wilson, Dalton K., Waterloo, Iowa. Controlling means for cultivators. No. 1,412,988; Apr. 18.
- Wilson, David H., Philadelphia, Pa. Diaphragm frame mounting for reproducers. No. 1,425,566; Aug. 15.
- Wilson, David W., West Orange, N. J. Hair trimming or cutting attachment for safety razors. No. 1,419,187; June 13.
- Wilson, Don C., New York, N. Y. Train-lighting-generator drive. No. 1,428,309; Sept. 5.
- Wilson, Donald S., Greenwich, Conn. Toilet case. No. 1,421,645; July 4.
- Wilson, Edgar H., and W. C. Ehrenfeld, Flemington, N. J. Spinning roll for spinning mills. No. 1,408,327; Feb. 28.
- Wilson, Edgar H., Chartiers Township, Allegheny County, assignor to Taylor-Wilson Manufacturing Company, McKees Rocks, Pa. Poker for gas producers. No. 1,419,342; June 13.
- Wilson, Edward, assignor to Wilson Engineering Company, St. Louis, Mo. Metallic packing. No. 1,415,078; May 9.
- Wilson, Edward F., Chicago, Ill., assignor to Lightning Change Rim Corporation, Berrien Springs, Mich. Collapsible rim. No. 1,418,045; May 30.
- Wilson, Edward R., and P. H. Best, Bridgeport, Conn. Toy submarine. No. 1,427,669; Aug. 29.
- Wilson, Edwin, assignor of one-half to J. Merle, St. Louis, Mo. Concrete railway roadbed. No. 1,436,847; Nov. 28.
- Wilson, Edwin R., Sykes, Mont. Windmill. No. 1,417,438; May 23.
- Wilson, Elizabeth, Plattsmouth, Nebr. Mechanical colander. No. 1,425,431; Aug. 8.
- Wilson, Elmer A. (See Wilson, Elmer V. L., and E. A.)
- Wilson, Elmer V. L. and E. A. Niles, Ohio. Fuel-supply mechanism for internal-combustion engines. No. 1,406,598; Feb. 14.
- Wilson, Emery J., Cleveland, Ohio. Rotary speed indicator. No. 1,416,082; May 16.
- Wilson, Emery J., Cleveland, Ohio. Rotary speed indicator. No. 1,416,083; May 16.
- Wilson, Emery J., Cleveland, Ohio. Rotary speed indicator. No. 1,416,084; May 16.
- Wilson Engineering Company. (See Wilson, Edward, assignor.)
- Wilson, Ezekiel J., East Greenbush, assignor to F. C. Huyck & Sons, Rensselaer, N. Y. Loom. No. 1,415,286; May 9.
- Wilson, Ezekiel J., East Greenbush, assignor to F. C. Huyck & Sons, Rensselaer, N. Y. Loom. No. 1,428,572; Sept. 12.
- Wilson, Foster C., Johnstown, Pa. Screw-holding attachment for screw drivers. No. 1,439,593; Dec. 19.
- Wilson, Frank G., Groveland Station, N. Y. Metal burial receptacle. No. 1,433,443; Oct. 24.
- Wilson, Frederick D., Moline, Ill. Rotary engine. No. 1,420,009; June 20.
- Wilson, Frederick D., assignor to Deere and Company, Moline, Ill. Steering wheel. No. 1,419,434; June 13.
- Wilson, Frederick D., assignor to Deere & Company, Moline, Ill. Grain wheel for harvesters. No. 1,426,937; Aug. 22.
- Wilson, Frederick D., Moline, assignor, by mesne assignments, to Austin Manufacturing Company, Chicago, Ill. Tractor. No. 1,439,045; Dec. 19.
- Wilson, Frederick D., and R. C. Livesay, assignors to Deere and Company, Moline, Ill. Power-propelled harvester. No. 1,419,433; June 13.
- Wilson, Garrison E., Caldwell, Kans. Chain sickle. No. 1,409,507; Mar. 14.
- Wilson, George C., Fort Wayne, Ind. Chiropractic table. No. 1,437,877; Dec. 5.
- Wilson, George W., East Durham, N. C. Knitting-machine attachment. No. 1,406,128; Feb. 7.
- Wilson, Gilbert G. (See McKenzie, Robert F., assignor.)
- Wilson, Golder P., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Relay system. No. 1,410,538; Mar. 21.
- Wilson, Grace M., Detroit, Mich. Pendant. No. 1,413,247; Apr. 18.
- Wilson, H. A., Company, The. (See Fry, Frank B., assignor.)
- Wilson, Harry B. (See Bailey, C. T., and Wilson.)
- Wilson, Harry C. (See McDougal, Douglas C., assignor.)
- Wilson, Harry T. (See Mundy, J. C., and Wilson.)
- Wilson, Harvey B., De Witt, Ill. Crank holder. No. 1,419,793; June 13.
- Wilson, Hugh A., Mankato, Minn. Deflated-tire signal. No. 1,425,733; Aug. 15.
- Wilson-Imperial Company. (See Wilson, John M., assignor.)
- Wilson, Ira J., et al. (See Edwards, William A., assignor.)
- Wilson, Isaac A., Lakebay, Wash. Braking device for portable logging roads. No. 1,406,709; Feb. 14.
- Wilson, J. Pearl, Jacksonville, Fla. Corner lock for crates and boxes. No. 1,419,794; June 13.
- Wilson, James, Stratford, Conn., assignor to Johns-Manville, Incorporated. Gauge for laying roofing. No. 1,405,083; Jan. 31.
- Wilson, James A., Chicago Heights, Ill. Display stand. No. 1,437,579; Dec. 5.
- Wilson, James C., et al. (See Mudge, Harry, assignor.)
- Wilson, James O., Jersey City, N. J. Permutation lock. No. 1,422,645; July 11.
- Wilson, James P., San Francisco, Calif. Garment supporter. No. 1,406,796; Feb. 14.
- Wilson, James W., North Port, N. Y. Apparatus for handling lifeboats. No. 1,411,320; Apr. 4.
- Wilson, James W., assignor to Wilson Cotton Chopper Company, St. Louis, Mo. Cotton chopper. No. 1,439,046; Dec. 19.
- Wilson, John A., Elizabeth, assignor to The Duratex Company, Newark, N. J. Coated fabric and making same. No. 1,406,710; Feb. 14.
- Wilson, John A., Elizabeth, assignor to The Duratex Company, Newark, N. J. Coated fabric and making the same. No. 1,425,306; Aug. 8.
- Wilson, John A., Elizabeth, assignor to The Duratex Company, Newark, N. J. Coated fabric and making same. No. 1,425,307; Aug. 8.
- Wilson, John A., Kansas City, Kans., assignor to The Wilson Slaughtering Device Co., Kansas City, Mo. Method and apparatus for removing blood from animals in process of slaughtering. No. 1,428,672; Sept. 12.
- Wilson, John C., Waynesburg, Pa. Toy smoking device. No. 1,411,146; Mar. 28.
- Wilson, John C., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Method of and apparatus for controlling the flow of fluids. No. 1,437,626; Dec. 5.
- Wilson, John C., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Method of and apparatus for controlling the flow of fluids. No. 1,437,627; Dec. 5.
- Wilson, John H., Burkburnett, Tex. Device for connecting pull rods to wrist pins. No. 1,412,548; Apr. 11.
- Wilson, John M., deceased, Montclair, N. J.; Cora E. Wilson, executrix, assignor to Wilson-Imperial Company. Portable appliance for cleaning car sides. No. 1,411,949; Apr. 4.
- Wilson-Jones Loose Leaf Company. (See Fargo, Charles R., assignor.)
- Wilson-Jones Loose Leaf Company. (See Meyer, A. R., and Reed, assignors.)
- Wilson, Joseph H. (See Juergens, Edward F., assignor.)
- Wilson, Kirke R., Buffalo, N. Y. Reaming machine. No. 1,413,550; Apr. 18.
- Wilson, Lawrence J., Coleman, Tex. Wheel-spoke tightener. No. 1,429,706; Sept. 19.
- Wilson, Leslie A., Berlin, Wis. Power-transmitting unit for motor-driven vehicles. No. 1,411,467; Apr. 4.
- Wilson, Leslie A., Berlin, Wis. Repair stand. No. 1,415,968; May 16.
- Wilson, Loran J., Jonesville, Va. Trap. No. 1,420,229; June 20.
- Wilson, Lyndon F., Chicago, Ill. Apparatus for molding compound. No. 1,428,733; Sept. 12.
- Wilson-Maeulen Company. (See Wilson, C. H., and Brown, assignors.)
- Wilson, Melven G., assignor of one-half to V. J. Thurlow, Seattle, Wash. Trolley. No. 1,429,007; Sept. 12.
- Wilson, Michael, Brooklyn, N. Y. Window guard. No. 1,433,584; Oct. 31.
- Wilson, Morris, assignor to B. B. Hanak Company, Chicago, Ill. Nonglare rain-shield plate and making the same. No. 1,437,580; Dec. 5.
- Wilson, Newton A., assignor of one-half to C. H. Petton, Detroit, Mich. Vehicle spring. No. 1,410,439; Mar. 21.
- Wilson, Percy H., Nottingham, England. Apparatus for measuring, indicating, and recording the flow of fluid. No. 1,414,388; May 2.
- Wilson, Percy H., Norfolk, and C. H. Sapper, South Norfolk, Va. Venetian blind. No. 1,434,867; Nov. 7.
- Wilson, Peter M., Marseille, France. Steering device for motor vehicles. No. 1,416,921; May 23.
- Wilson Process, Incorporated. (See Wilson, Sidney C., assignor.)
- Wilson, Ralph W., New York, N. Y. Container. No. 1,411,653; Apr. 4.
- Wilson, Ray H., New Holland, Ill. Plow. No. 1,427,141; Aug. 29.
- Wilson, Richard H., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. No. 1,403,932; Jan. 17.
- Wilson, Robert, Hobart, Tasmania, Australia. Building of concrete structures. No. 1,405,650; Feb. 7.
- Wilson, Robert, Hobart, Tasmania, Australia. Mode of and apparatus for molding gutters and curbing. No. 1,410,355; Mar. 21.
- Wilson, Robert A., assignor to Guiberson Corporation, Dallas, Tex. Well-tubing catcher. No. 1,411,599; Apr. 4.
- Wilson, Robert A., assignor to The Guiberson Corporation, Dallas, Tex. Well-casing spear. No. 1,418,766; June 6.
- Wilson, Robert A., assignor to Guiberson Corporation, Dallas, Tex. Casing wrench. No. 1,418,767; June 6.
- Wilson, Robert A., assignor to Guiberson Corporation, Dallas, Tex. Wrench. No. 1,418,768; June 6.
- Wilson, Robert D., Rochester, N. Y. Auto swing. No. 1,402,127; Jan. 3.
- Wilson, Robert E. (See Lewis, W. K., and Wilson.)

Alphabetical list of patentees—Continued.

- Wilson, Samuel H., Cartersville, Ga. Lamp attachment. No. 1,408,328; Feb. 28.
- Wilson, Samuel J., Roberts, Idaho. Harvesting machine. No. 1,435,569; Nov. 14.
- Wilson, Samuel J., Roberts, assignor of one-half to Perry Basinger, Clyde, Idaho. Beet and potato digger and elevator. No. 1,414,538; May 2.
- Wilson, Sidney C., assignor to Wilson Process, Incorporated, Rochester, N. Y. Making shoes. No. 1,421,347; June 27.
- Wilson, Sidney C., Penn Yan, assignor to Wilson Process, Incorporated, Rochester, N. Y. Shoe manufacture. No. 1,424,745; Aug. 1.
- Wilson Slaughterer Device Co., The. (See Wilson, John A., assignor.)
- Wilson, Stephen G., Philadelphia, Pa. Shoe brush. No. 1,431,554; Oct. 10.
- Wilson, Sylvester F., East St. Louis, Ill. Dish-washing machine. No. 1,406,599; Feb. 14.
- Wilson, Thomas H., Bramley, Leeds, England. Stamping machine for cutting out articles from sheet metal. (Reissue.) No. 15,402; July 4.
- Wilson, Tom, Chicago, Ill., assignor to Wilson Bros. Mfg. Company. Drum attachment. No. 1,413,445; Apr. 18.
- Wilson, Walter A., Elkhart, Kans. Windmill. No. 1,419,000; June 6.
- Wilson, Walter E., Paxico, Kans. Carburetor. No. 1,420,356; June 20.
- Wilson, Walter G., Charton, Farnham, England. Epicyclic gear. No. 1,404,675; Jan. 24.
- Wilson, Weaver, and S. Price, Wellington, Kans. Locking attachment for spare-tire holders. No. 1,430,137; Sept. 26.
- Wilson, Welder & Metals Company. (See Churchward, Alexander, assignor.)
- Wilson Welder & Metals Company. (See Churchward, Jack, assignor.)
- Wilson, William, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric discharge device and operating circuits therefor. No. 1,403,726; Jan. 17.
- Wilson, William, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Thermionically-active substance. No. 1,419,530; June 13.
- Wilson, William, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Repeater for undulatory currents. No. 1,426,801; Aug. 22.
- Wilson, William E., Evansville, Ind. Heater for automobile radiators and engines. No. 1,414,539; May 2.
- Wilson, William E., Mason City, Iowa. Clay-product-facing machine. No. 1,417,788; May 30.
- Wilson, William G., West Brighton, N. Y. Pastry lifter. No. 1,427,044; Aug. 22.
- Wilson, William H. (See Land, Charles H., Jr., assignor.)
- Wilson, William H. (See McElvaney, C. T., and Wilson.)
- Wilson, William P., Washington, D. C. Vehicle suspension. No. 1,408,674; Mar. 7.
- Wilson, Wylie G., New York, N. Y. Means for securing hubs to shafts. No. 1,402,463; Jan. 3.
- Wilson, Wylie G., New York, N. Y., assignor to Sliding Valves Incorporated. Slide-cup valve. No. 1,413,210; Apr. 18.
- Wilson, Wylie G., New York, N. Y., assignor to Sliding Valves Incorporated. Valve. No. 1,416,431; May 16.
- Wilt, Chas. T., Company. (See Wilt, Colin D., assignor.)
- Wilt, Colin D., assignor to Chas. T. Wilt Company, Chicago, Ill. Tray fastener for wardrobe trunks. No. 1,414,162; Apr. 25.
- Wiltzin, Rudolph, Proctor, Colo. Shoe fastener. No. 1,409,327; Mar. 14.
- Wilterding, Forest E., and N. N. Buck, Eau Claire, Wis., assignors to said Buck. Electric door-operating mechanism. No. 1,430,206; Sept. 26.
- Wiltermoord, Oliver O. P., Middleport, Wash. Sewer cleaner. No. 1,437,374; Nov. 28.
- Wilton, Norman, London, England. Purification of crude ammonium sulphate. No. 1,412,549; Apr. 11.
- Wiltse, Sumner, Dayton, Ohio. Connecting rod for engines. No. 1,413,645; Apr. 25.
- Wiltse, Sumner, Dayton, Ohio. Connecting rod for engines. No. 1,425,567; Aug. 15.
- Wilzin, Arthur. (See Roiant, E., and Wilzin.)
- Wimberg, Anthony J., Louisville, Ky. Vise stand. No. 1,408,675; Mar. 7.
- Wimmer, Karl H., Holzhafen, Bremen, Germany, assignor to Hydrogenated Oil Company, St. Louis, Mo. Catalyzer. No. 1,416,249; May 16.
- Winans, Henry E., Bellevue, Ill. Shell. No. 1,421,882; July 4.
- Winans, Myron L., Waco, Tex. Dumping auto body. No. 1,432,313; Oct. 17.
- Winblad, Niklas, Stepeny, Conn., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Ignition apparatus for internal-combustion engines. No. 1,424,056; July 25.
- Winchester, Albert G., assignor to Crippen & Reid, Baltimore, Md. Middy blouse. No. 1,421,053; June 27.
- Winchester, Ralph E., Los Angeles, Calif. Collapsible seat back. No. 1,405,651; Feb. 7.
- Winchester Repeating Arms Co. See Burton, Frank F., assignor.)
- Winchester Repeating Arms Co. (See Claypoole, Guy C., assignor.)
- Winchester Repeating Arms Company. (See De Olaneta, Harold, assignor.)
- Winchester Repeating Arms Company. (See Gallagher, George D., assignor.)
- Winchester Repeating Arms Company. (See Humiston, Frederick L., assignor.)
- Winchester Repeating Arms Company. (See Miller, Louis A., assignor.)
- Winchester Repeating Arms Company. (See Paine, Arthur P., assignor.)
- Winchester Repeating Arms Company, The. (See Pugsley, Edwin, assignor.)
- Winchester Repeating Arms Company. (See Stimson, Frank G., assignor.)
- Winchester, Sidney H., Corinna, Me. Auxiliary screen for windshields. No. 1,409,987; Mar. 21.
- Windell, Frank D., Philadelphia, Pa. Electric draft controller. No. 1,414,448; May 2.
- Winder, Samuel E., Chicago, Ill. Glass-manufacturing machinery. No. 1,431,436; Oct. 10.
- Winder, Samuel E., assignor to Novelty Cup & Cone Company, Chicago, Ill. Ice-cream-cone-molding mechanism. No. 1,413,369; Apr. 18.
- Wideman, Allan A. L., and R. Rachmil, New York, N. Y. Overall. No. 1,424,388; Aug. 1.
- Winders, Bayard L. (See Durborow, H. J., and Winders.)
- Windisch, Kurt. (See Bockmühl, M., and Windisch.)
- Windish, Fred, assignor of one-half to M. Rudzik, Hartford, Conn. Valve-dressing tool. No. 1,430,345; Sept. 26.
- Windle, Albert E., Gravelly Hill, Birmingham, England. Combined atomizer and burner for liquid fuels. No. 1,426,697; Aug. 22.
- Window Glass Machine Company. (See Clark, Henry F., assignor.)
- Window Glass Machine Company. (See Pierce, L. J., and Famariss, assignors.)
- Window Glass Machine Company. (See Waterloo, John, assignor.)
- Windridge, Frederick N. (See Powell, Everton B., assignor.)
- Windsor Manufacturing Company, The. (See Cope, Carson C., assignor.)
- Windsor Manufacturing Company, The. (See Cope, Joseph H., assignor.)
- Wine, Hugh S., Clarksburg, W. Va. Ratchet hydrant wrench. No. 1,434,641; Nov. 7.
- Wine Railway Appliance Company, The. (See Cremean, William E., assignor.) (Reissue.)
- Wine, William E. See Sisson, Vinton E., assignor.)
- Wine, William E., Toledo, Ohio. Door construction. No. 1,410,539; Mar. 21.
- Wine, William E., Toledo, Ohio. Car-door lock. No. 1,431,499; Oct. 10.
- Wine, William E., Toledo, Ohio. Car-door-locking device. No. 1,431,500; Oct. 10.
- Wine, William E., Toledo, Ohio. Car-door-locking hook. No. 1,431,501; Oct. 10.
- Wine, William E., Toledo, Ohio. Car-door-locking device. No. 1,431,502; Oct. 10.
- Wine, William E., Toledo, Ohio. Car-door-locking device. No. 1,431,503; Oct. 10.
- Wine, William E., Toledo, Ohio. Pressed-metal hook. No. 1,431,504; Oct. 10.
- Wine, William E., Toledo, Ohio. Door mechanism for railway cars. No. 1,431,505; Oct. 10.
- Wine, William E., Toledo, Ohio. Car-door arrangement. No. 1,431,506; Oct. 10.
- Wine, William E., Toledo, Ohio. Locking device for hopper-car doors. No. 1,431,507; Oct. 10.
- Wine, William E., Toledo, Ohio. Door device for railway cars. No. 1,431,508; Oct. 10.
- Wine, William E., Toledo, Ohio. Car-door arrangement. No. 1,431,509; Oct. 10.
- Wine, William E., Toledo, Ohio. Door arrangement for railway cars. No. 1,433,056; Oct. 24.
- Wine, William E., Toledo, Ohio. Door lock. No. 1,433,105; Oct. 24.
- Wine, William E., Toledo, Ohio. Car-door locking and supporting device. No. 1,433,323; Oct. 24.
- Wine, William E., Toledo, Ohio. Car door. No. 1,433,324; Oct. 24.
- Wine, William E., Toledo, Ohio. Car-door lock. No. 1,434,177; Oct. 31.
- Wine, William E., Toledo, Ohio. Railway car. No. 1,434,178; Oct. 31.
- Wine, William E., Toledo, Ohio. Car-door mechanism. No. 1,434,977; Nov. 7.
- Wine, William E., Toledo, Ohio. Car-door device. No. 1,436,927; Nov. 28.
- Wine, William E., Toledo, Ohio. Car-door lock. No. 1,440,259; Dec. 26.
- Wine, William E., Toledo, Ohio. Car-door-locking device. No. 1,440,260; Dec. 26.
- Wine, William E., and W. F. Cremean, Toledo, Ohio. Car-door-locking device. No. 1,433,057; Oct. 24.
- Wineburgh, Abraham, New York, N. Y. Container and support. No. 1,411,894; Apr. 4.
- Wineland, John F., Pittsburgh, Pa. Portioning mechanism. No. 1,404,172; Jan. 17.
- Wineman, Wade H., Chicago, Ill., assignor to Sullivan Machinery Company. Drill sharpener. No. 1,405,084; Jan. 31.

- Wines, Carleton H. (See Hosmer, C. C., and Wines.)
- Wing, Claude E. (See Kohlmeier, G., Wing, and Schelhammer.)
- Wing, Claude E., New York, N. Y. Dishwashing machine. No. 1,405,243; Jan. 31.
- Wing, Claude E., College Point, and H. Schelhammer, Whitestone Landing, assignors to American Hard Rubber Co., New York, N. Y. Machine for making combs. No. 1,423,981; July 25.
- Wing, Levi J., East Orange, N. J. Musical instrument. No. 1,410,235; Mar. 21.
- Winger, Bernard, Cincinnati, Ohio. Adjustable hook for refrigerator cars. No. 1,405,745; Feb. 7.
- Winger, Ralph R., Placentia, assignor to Regan Forge and Engineering Company, San Pedro, Calif. Fishing tool. No. 1,411,546; Apr. 4.
- Wingers, Harry A. (See Blanton, John B., assignor.)
- Wingert, John W., Wichita, Kans. Grain car. No. 1,434,517; Nov. 7.
- Winget Limited. (See Kiddie, Frederick W., assignor.)
- Wingett, John W., Washington, Pa. Tubing protector. No. 1,402,699; Jan. 3.
- Wingquist, Sven G., assignor to Aktiebolaget Svenska Kullagerfabrik, Gottenborg, Sweden. Roller bearing. No. 1,415,969; May 15.
- Wingqvist, Nils, Tollarp, Sweden. Rotating kiln for burning cement and the like. No. 1,415,970; May 16.
- Winje, Samuel, et al. (See Shugart, Frederick R., assignor.)
- Winkelman, William, Los Angeles, Calif. Blast furnace. No. 1,402,464; Jan. 3.
- Winklehaus, Frederick O., New York, N. Y., assignor to Metropolitan Electric Manufacturing Company. Safety switch. No. 1,417,650; May 30.
- Winkler, Carl, Berne, Switzerland. Device for holding matrices in stereo-plate casting boxes. No. 1,407,615; Feb. 21.
- Winkler, Carl, Berne, Switzerland. Machine for casting curved stereotype plates. No. 1,413,446; Apr. 18.
- Winkler, Carl, Berne, Switzerland. Device for interleaving sheets printed in cylinder-flat-bed machines. No. 1,415,752; May 9.
- Winkler, Carl, Berne, Switzerland. Mold for casting stereotype plates. No. 1,420,464; June 20.
- Winkler, Christian, Portland, Oreg. Key-seating machine. No. 1,420,600; June 20.
- Winkler, Frederick, Bloomfield, N. J. Polishing and tumbling barrel. No. 1,426,435; Aug. 22.
- Winkler, Fritz. (See Mittasch, A., and Winkler.)
- Winkler, Gustav, Dessau, Germany. Method and device for handling preserving jars. No. 1,415,618; May 9.
- Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-building machine. No. 1,427,884; Sept. 5.
- Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stock-cutting machine. No. 1,429,310; Sept. 19.
- Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Boot and shoe. No. 1,438,204; Dec. 12.
- Winkley, Erastus E., Lynn, Mass. Golf apparatus. No. 1,407,109; Feb. 21.
- Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-building machine. No. 1,407,182; Feb. 21.
- Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Stock-cutting machine. No. 1,412,225; Apr. 11.
- Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Forming stacks of wedge lifts. No. 1,416,085; May 16.
- Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Washer-placing apparatus. No. 1,422,159; July 11.
- Winkley, Paul N., Casper, Wyo. Automatic releasing stirrup. No. 1,418,504; June 6.
- Winn, Leon E., et al. (See Marion, Frank, assignor.)
- Winnertz, Peter E., and P. E. Neubert, Penig, Germany; said Neubert assignor to said Winnertz. Device for manufacturing objects of paper fibrine. No. 1,401,979; Jan. 3.
- Winquist, Victor, assignor to Burd High Compression Ring Company, Rockford, Ill. Ring-grinding machine. No. 1,402,700; Jan. 3.
- Winship, Frank E. (See Naterman, Henry D., assignor.)
- Winslow Boiler & Engineering Company. (See Halvorsen, Ole G., assignor.)
- Winslow, Edward W., Belle Plaine, Iowa. Motor friction phonograph mechanism. No. 1,425,353; Aug. 8.
- Winsor, James G. (See Hatasbita, Sezou.)
- Winstanley, Robert E., jr., Boston, Mass. Wireless signaling apparatus. No. 1,438,567; Dec. 12.
- Winstead, George M., Long Beach, Calif. Photographic-printing frame. No. 1,439,987; Dec. 26.
- Winston, William J. (See Mitts, P. S., and Winston.)
- Wintemute, Charles E. (See Wintemute, Willson E. and C. E.)
- Wintemute, Willson E. and C. E., Vancouver, British Columbia, Canada. Wire-rope shears. No. 1,413,447; Apr. 18.
- Winter, Andrew, Covington, Ky. Collapsible crate. No. 1,416,150; May 16.
- Winter, Arthur, Jersey City, N. J., and P. S. Morgan, Norwalk, Conn., assignors to S. E. Darby, jr., trustee, East Orange, N. J. Fountain pen. No. 1,433,325; Oct. 24.
- Winter, Charles A., New York, N. Y. Motor attachment for wringers. No. 1,436,555; Nov. 21.
- Winter, Courtney P., New Brunswick, N. J. Making paper napkins. No. 1,425,071; Aug. 8.
- Winter, Ernest J., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Distilling process. No. 1,427,885; Sept. 5.
- Winter, Ernest J., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Distilling apparatus. No. 1,427,886; Sept. 5.
- Winter, Ernest J., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Apparatus for distilling. No. 1,427,887; Sept. 5.
- Winter, Ernest J., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Distilling. No. 1,427,888; Sept. 5.
- Winter, Frank, Chicago, Ill., assignor to M. Levitan, Madison, Wis. Nail clipper. No. 1,430,779; Oct. 3.
- Winter, George J., Buffalo, N. Y. Cushion heel. No. 1,407,506; Feb. 21.
- Winter, Harry, Springfield, Ill. Means for forming side-cut brick. No. 1,436,745; Nov. 28.
- Winter, Ile, Stringtown, Okla. Envelope. No. 1,411,547; Apr. 4.
- Winter, Julius. (See Cox, J. J., and Wendelken, assignors.)
- Winter, Julius. (See Wendelken, Richard, assignor.)
- Winter, K. C., et al. (See Soutullo, Raymond J., assignor.) (Reissue.)
- Winter, Louis, assignor to B. W. Schnur, Newark, N. J. Glass pane for windshields and the like and making the same. No. 1,438,470; Dec. 12.
- Winter, Wilhelm, and G. Immand, Essen, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Self-discharging car. No. 1,429,056; Sept. 12.
- Winter, William G., St. Louis, Mo. Electric motor switch. No. 1,406,432; Feb. 14.
- Wittman Brothers. (See Baron, Max D., assignor.)
- Wittenmyer, Carlos, Detroit, Mich. Vaporizer. No. 1,416,151; May 16.
- Witter, Claude A., Philadelphia, Pa. Manufacturing metallic shapes. No. 1,408,330; Feb. 28.
- Wittig, Alfred E., Rochester, N. Y. Signal. No. 1,418,340; June 6.
- Wittmann Company, The. (See Stephens, Floyd C., assignor.)
- Wittmann, Joseph H., Kansas City, Mo. Tent. No. 1,412,302; Apr. 11.
- Wittmann, Joseph H., Kansas City, Mo. Bed. No. 1,415,135; May 9.
- Wittmeier, Robert S. (See Hainline, Theodore W., assignor.)
- Witzberger, Etienne, Carnegie, Pa., assignor to Witzberger Heating Appliances Company. Snap stove bolt. No. 1,426,237; Aug. 15.
- Witzberger, Etienne, Carnegie, Pa., assignor to Witzberger Heating Appliances Company. Movable reflector heater. No. 1,426,238; Aug. 15.
- Witzberger, Etienne, Carnegie, Pa., assignor to Witzberger Heating Appliances Company. Spring stove bolt. No. 1,426,239; Aug. 15.
- Witzberger Heating Appliances Company. (See Witzberger, Etienne, assignor.)
- Witzel, Albert, Ludwigsburg, Germany. Rubber tire. No. 1,419,343; June 13.
- Witzenmann, Emil, Pforzheim, Germany. Flexible metal hose. No. 1,424,057; July 25.
- Witzig, John, Astoria, N. Y. Roll. No. 1,414,449; May 2.
- Wix, James A., Goldville, S. C. Loom rock-shaft bearing. No. 1,422,016; July 4.
- Wix, William H., Baltimore, Md. Automatic oil-feed device. No. 1,418,046; May 30.
- Winterburn, James E., assignor to E. J. Torregano, San Francisco, Calif. Automatic motion-picture-projecting machine. No. 1,405,884; Feb. 7.
- Winterer, Edward, Los Angeles, Calif. Typewriter. No. 1,402,200; Jan. 3.
- Winterhoff, B. F., et al. (See Nolan, Clyde, assignor.)
- Wintemute, Harry A., Branchville, N. J., assignor to Research Corporation, New York, N. Y. Magnetic steadying device for electrodes. No. 1,409,508; Mar. 14.
- Wittern, Frank H., Flandreau, S. Dak. Vehicle signal. No. 1,411,764; Apr. 4.
- Winters, David L., Philadelphia, Pa. Internal-combustion engine. No. 1,403,218; Jan. 10.
- Winters, David L., Philadelphia, Pa. Two-cycle internal-combustion engine. No. 1,408,329; Feb. 28.
- Winters, David L., Edgewater, Md. Carburetor. No. 1,430,482; Sept. 26.
- Winters, George D., Sanger, Calif. Antiskid device. No. 1,422,646; July 11.
- Winters, Jacob E., Taft, Calif. Clutch and brake control mechanism. No. 1,427,184; Aug. 29.
- Winters, Joseph P., East Liverpool, Ohio. Holder for dies for drawing rods, wires, etc. No. 1,412,730; Apr. 11.
- Winters, Lee L., Ann Arbor, Mich. Motor-meter lock. No. 1,423,822; July 25.
- Winters, Robert E., Coraopolis, assignor of one-half to A. E. Dean, Pittsburgh, Pa. Speed-change mechanism. No. 1,407,716; Feb. 28.
- Winters, W. B., et al. (See Lemons, Joseph F., assignor.)

Alphabetical list of patentees—Continued.

- Winther Motors, Inc. (See Neuteboom, Boudewijn B., assignor.)
- Wintroath, John A., Memphis, Tenn., assignor to Layne & Bowler Corporation, Los Angeles, Calif. Well mechanism. No. 1,435,362; Nov. 14.
- Wintsch, Victor, Jr., Zurich, Switzerland. Device for volatilizing disinfectants. No. 1,413,448; Apr. 18.
- Wion, George H., Melbourne, Victoria, Australia, and A. E. Hudd, Liverpool, England. Electrical point detector for railways. (Reissue.) No. 15,456; Sept. 12.
- Wirebounds Patents Company. (See Bauwens, Seraphine F., assignor.)
- Wirebounds Patents Company. (See Emerson, Ernest, assignor.)
- Wirebounds Patents Company. (See Fowler, Neil A., assignor.)
- Wirebounds Patents Company. (See Inwood, Richard G., assignor.)
- Wirebounds Patents Company. (See Thompson, Osceola C., assignor.)
- Wireless Specialty Apparatus Company. (See Priess, William H., assignor.)
- Wireless Spitzscope Company. (See Spitz, Samuel, assignor.)
- Wire Wheel Corporation of America. (See Pugh, John V., assignor.) (Reissue.)
- Wirkkala, Oscar A., Rome Township, Whatcom County, Wash. Lubricating system for logging blocks. No. 1,439,349; Dec. 19.
- Wirrer, Gottfried. (See Josephs, L. C., jr., and Wirrer.)
- Wirsching, August F. and R. A., Los Angeles, Calif. Luminous sign and number. No. 1,407,345; Feb. 21.
- Wirsching, Robert A. (See Wirsching, August F. and R. A.)
- Wirshing, Herbert, Tulsa, Okla. Gas and oil separator. No. 1,440,197; Dec. 26.
- Wirt, William J., Breckenridge, Minn. Automatic train-stop means. No. 1,406,797; Feb. 14.
- Wirth, Charles W., Millvale, Pa. Toy railroad gate set. No. 1,415,753; May 9.
- Wirth-Frey, Elias, Aarau, Switzerland. Inspissating liquids. No. 1,405,244; Jan. 31.
- Wirth-Frey, Elias, assignor to Aktiengesellschaft Kummeler & Matter, Aarau, Switzerland. Evaporator for liquids. No. 1,437,698; Dec. 5.
- Wirth, Wencel. (See Trumppour, W. J., and Wirth.)
- Wirtz, Franklin H. (See Shaffer, Glenn A., assignor.)
- Wirtz, Luis, Streatham, London, England. Means for purifying and vaporizing oils. No. 1,403,279; Jan. 10.
- Wisconsin Electric Company. (See Beach, Chester H., assignor.)
- Wisconsin Farm Tractor Company. (See Westmont, John C., assignor.)
- Wisconsin Trust Company et al., executors. (See Fraser, D. Shafer, and Levalley.)
- Wise, Charles H., Oil City, Pa. Stopcock. No. 1,418,118; May 30.
- Wise, Harry, Yakima, Wash. Automobile bed. No. 1,420,800; June 27.
- Wise, Lloyd E., Julesburg, Colo. Sign. No. 1,413,248; Apr. 18.
- Wise-McClung Manufacturing Company. (See Wise, W. J., and Adams.)
- Wise, Robert P., Tulsa, Okla. Heating apparatus. No. 1,429,121; Sept. 12.
- Wise, Solomon, Cincinnati, Ohio. Steering-wheel lock. No. 1,410,637; Mar. 28.
- Wise, Wilbert G., Akron, Ohio. Furnace construction. No. 1,422,160; July 11.
- Wise, William G., New York, N. Y. Can opener. No. 1,413,449; Apr. 18.
- Wise, William J., and T. O. Adams, assignors to The Wise-McClung Manufacturing Company, New Philadelphia, Ohio. Vacuum cleaner. No. 1,420,172; June 20.
- Wise, William J., and T. O. Adams, assignors to The Wise-McClung Manufacturing Company, New Philadelphia, Ohio. Vacuum cleaner. No. 1,423,734; Sept. 12.
- Wiseley, Francis M., Clayton, N. Mex. Dirigible mounting for vehicle lamps. No. 1,433,585; Oct. 31.
- Wise-McClung Manufacturing Company, The. (See Wise, W. J., and Adams, assignors.)
- Wisenberg, Don C., Peru, Ind. Article holder. No. 1,424,607; Aug. 1.
- Wishart, Thomas D., Heaton Chapel, near Stockport, assignor of one-half to Crossley Motors Limited, Gorton, Manchester, England. Internal-combustion engine. No. 1,424,226; Aug. 1.
- Wishart, William, and A. H. Morrell, assignors to Clinton Refrigerating Company, Clinton, Iowa. Scale trap. No. 1,402,821; Jan. 10.
- Wishart, William, and A. H. Morrell, assignors to Clinton Refrigerating Company, Clinton, Iowa. Thermostatic control device for refrigerating plants. No. 1,403,219; Jan. 10.
- Wisintainer, Emanuel A., Barnhill, Ohio. Self-lighter for carbide lights. No. 1,434,419; Nov. 7.
- Wisniewski, Walter, assignor of one-half to J. Baramski, Syracuse, N. Y. Combination lock. No. 1,416,250; May 16.
- Wisniewski, Stanislaw, Hartford, Conn. Boat-propelling device. No. 1,410,048; Mar. 21.
- Wisniewski, Stanislaw, South Manchester, Conn. Boat-propelling device. No. 1,434,868; Nov. 7.
- Wisoff, Isaac J., Brooklyn, N. Y. Shovel. No. 1,434,240; Oct. 31.
- Wisroth, Ernst, Venice, Calif. Tool. No. 1,435,885; Nov. 14.
- Wisroth, Ernst, Venice, Calif., assignor of one-half to R. D. Raphael. Ice-cream-vending machine. No. 1,431,437; Oct. 10.
- Wissel, Anthony J., trustee. (See Penrod, William F., assignor.)
- Wissing, Alphons J., assignor to Illinois Battery Steamer Co., Peoria, Ill. Valve. No. 1,440,198; Dec. 26.
- Wissing, Alphons J., assignor to Illinois Battery Steamer Co., Peoria, Ill. Steaming device and condenser. No. 1,440,199; Dec. 26.
- Wissinger, Max, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Electrical control apparatus. No. 1,424,702; Aug. 1.
- Wissler, John E. (See Hutson, C. C., and Wissler.)
- Wistoft, Sören, Copenhagen, Denmark. Pendulum scale. No. 1,414,764; May 2.
- Wiswall, Alvah, deceased, Providence, R. I.; E. W. Shedd, administrator. Resilient vehicle wheel. No. 1,424,865; Aug. 8.
- Witbeck, Desford, St. Louis, Mo. Wardrobe suitcase. No. 1,438,737; Dec. 12.
- Witbeck, Desford, St. Louis, Mo. Garment-holding device for traveling luggage. No. 1,438,738; Dec. 12.
- Witham, George S., jr., Hudson Falls, N. Y. Slice for paper-making machines. No. 1,431,858; Oct. 10.
- Witham, George S., sr., Hudson Falls, N. Y. Paper-making machine. No. 1,434,033; Oct. 31.
- Witham, George S., jr., Hudson Falls, N. Y. Paper-making machine. No. 1,438,511; Dec. 12.
- Witherell, Earl M., Duluth, Minn. Sinker mechanism for forming open-work knitting. No. 1,413,951; Apr. 25.
- Witherell, Earl M., Duluth, Minn. Knitting-machine needle. No. 1,418,345; June 6.
- Witherell, Earl M., assignor of one-half to F. A. Patrick & Company, Duluth, Minn. Yarn stand for knitting machines. No. 1,428,573; Sept. 12.
- Witherow Steel Company. (See Witherow, William P., assignor.)
- Witherow, William P., assignor to Witherow Steel Company, Pittsburgh, Pa. Tie rod for railway tracks. No. 1,409,988; Mar. 21.
- Withers, John A., et al. (See Piper, Herbert H., assignor.)
- Withers, William L., Salt Lake City, Utah. Dental fastening for removable bridges and partial plates. No. 1,423,288; July 18.
- Withrow, James R. (See French, E. H., Withrow, and Allen.)
- Withun, Lawrence O., Capsac, Mich. Rotary drier. No. 1,414,766; May 2.
- Witkus, Frank F., Newport, N. H. Presser wheel. No. 1,407,183; Feb. 21.
- Witmer, Christian H. (See Norris, P. E., and Witmer.)
- Witt, Amanda C., San Francisco, Calif. Material marker and folder. No. 1,438,568; Dec. 12.
- Witt, Hugo A., Stockholm, Sweden. Apparatus for integrating variable quantities as regards the time. No. 1,432,375; Oct. 17.
- Witt, Martin F., Los Angeles, Calif. Means for burning crude oil. No. 1,429,478; Sept. 19.
- Wittcoff, Edward, St. Louis, Mo. Seat cover. No. 1,422,908; July 18.
- Witte, Fritz, Brunswick, Germany. Transporting device. No. 1,409,806; Mar. 14.
- Witte, Gustav A., Philadelphia, Pa., assignor to International Precipitation Company, Los Angeles, Calif. Apparatus for electrical precipitation of suspended particles from gases. No. 1,407,311; Feb. 21.
- Witte, Gustav A., Philadelphia, Pa., assignor to International Precipitation Company, Los Angeles, Calif. Means for utilizing waste furnace gases. No. 1,407,717; Feb. 28.
- Witte, Walter L., Escondido, Calif. Rope tightener. No. 1,422,804; July 11.
- Wittel, Otto, Mount Vernon, N. Y., assignor to General Optical Company. Lens-cutting machine. No. 1,406,798; Feb. 14.
- Wittler, Alfred S. (See Kaiser, Alfred E., assignor.)
- Wittmann, Joseph H., Kansas City, Mo. Stake. No. 1,427,889; Sept. 5.
- Wittner, William, Jersey City, N. J. Telescoping planer and shaper gauge. No. 1,431,612; Oct. 10.
- Wittner, William, Jersey City, N. J. Telescoping inside gauge and indicator. No. 1,431,613; Oct. 10.
- Wittner, William, Jersey City, N. J. Dial test indicator. No. 1,431,614; Oct. 10.
- Wittner, William, Jersey City, N. J. Reliable adjustable inside indicator gauge. No. 1,431,615; Oct. 10.
- Wochna, Matthew J. (See Cullen, B. P., and Wochna.)
- Woegerer, Carl V., assignor of one-half to J. R. Clarke and one-half to W. H. Clarke, New York, N. Y. Process of and apparatus for producing lighter hydrocarbons from heavier hydrocarbons. No. 1,429,992; Sept. 26.
- Woehr, Frederick A., assignor to G. J. Gillies, Rochester, N. Y. Strip-uniting machine. No. 1,417,651; May 30.

Alphabetical list of patentees—Continued.

- Woehr, Theodor, St. Louis, Mo. Coaster vehicle. No. 1,428,735; Sept. 12.
- Woelfel, William, Peabody, Mass. Guard for power presses or the like. No. 1,405,957; Feb. 7.
- Woelfel, George, and W. Hopf, assignors to The Singer Manufacturing Company, Elizabeth, N. J. Circularly-moving-book sewing machine. No. 1,438,076; Dec. 5.
- Wohl, Alfred, Danzig-Langfuhr, Germany. Explosive. No. 1,408,056; Feb. 28.
- Wohl, M. J., & Co. Inc. (See Mayer, Max, assignor.)
- Wohlgezon, Alfred A. (See Gorman, W. J., Frankel, and Wohlgezon.)
- Wohlpart, August J., New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Feeding mechanism for sewing machines. No. 1,410,860; Mar. 28.
- Wohlrab, Paul B. (See Schmaller, Ernst, assignor.)
- Woidich, Franz. (See Schill, E., and Woidich.)
- Wojcicki, Frank, Bayonne, N. J. Perambulator. No. 1,428,736; Sept. 12.
- Wojnarski, John, Chicago, Ill. Window-washing apparatus. No. 1,428,823; Sept. 12.
- Wolcott, Eben H., trustee. (See Moffatt, Ansil, assignor.)
- Wolcott, Edson R., Los Angeles, Calif. Pencil sharpener. No. 1,418,858; June 6.
- Wolcott, Edson R., assignor to International Precipitation Company, Los Angeles, Calif. Method and apparatus for electrically promoting chemical reactions. No. 1,402,128; Jan. 3.
- Wolcott, Edson R., assignor to International Precipitation Company, Los Angeles, Calif. Process and apparatus for separation of suspended material from gases. No. 1,416,769; May 23.
- Wolcott, Karl C., Florahome, Fla. Stump puller. No. 1,418,119; May 30.
- Wold, Carl O. (See Anderson, A., and Wold.)
- Wold, Peter I., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Method and means for relaying modulated carrier waves. No. 1,424,866; Aug. 8.
- Wold, Peter I., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric regulator. No. 1,438,976; Dec. 19.
- Wold, Peter I., and O. E. Buckley, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Electric regulator. No. 1,434,869; Nov. 7.
- Wolf, Andrew. (See Maloney, Edward J., assignor.)
- Wolf, Anthony, Gloversville, N. Y. Hand covering. No. 1,432,005; Oct. 17.
- Wolf, Augustus, Chambersburg, Pa. Bolting machine. No. 1,414,851; May 2.
- Wolf, Austin M., Plainfield, N. J. Automotive vehicle. No. 1,424,867; Aug. 8.
- Wolf, Bert D. (See Kramer, J., and Wolf.)
- Wolf, Bert D., Minneapolis, Minn. Varnish booth. No. 1,407,011; Feb. 21.
- Wolf, Edgar P., assignor to Perfex Radiator Company, Racine, Wis. Radiator of the automobile type. No. 1,410,356; Mar. 21.
- Wolf Electrical Promoting Company, The. (See Meyer, Henry A., assignor.)
- Wolf, Emil E. (See Henser, John H., assignor.)
- Wolf, Frank F. (See Alling, R. E., and Wolf.)
- Wolf, Georg, assignor to Firm of Georg Wolf G. m. b. H., Berlin, Germany. Instrument for examining cavities of the body. No. 1,431,902; Oct. 10.
- Wolf, Georg, G. m. b. H. (See Wolf, Georg, assignor.)
- Wolf, Henry W., Stella, Nebr. Grain-car door. No. 1,433,058; Oct. 24.
- Wolf, James D., Croton-on-Hudson, N. Y. Fire-fighting apparatus. No. 1,418,505; June 6.
- Wolf, Kuno, Berlin-Charlottenburg, assignor to Elektrosomose Aktiengesellschaft (Graf Schwerin Gesellschaft), Berlin, Germany. Manufacturing material suitable for wall covering, putty, or the like. No. 1,418,896; June 6.
- Wolf, Robert B., New York, N. Y. Method of and apparatus for bleaching pulp. No. 1,433,865; Oct. 31.
- Wolf, Sam, Chicago, Ill., assignor to J. Rouso, Los Angeles, Calif. Counting device. No. 1,431,073; Oct. 3.
- Wolf, Walter F. (See Dickson, James G., assignor.)
- Wolf, Walter K., Brownstown, Pa. Tool for expanding and contracting rims. No. 1,410,861; Mar. 28.
- Wolf, Wilfred A. (See Van Emon, B. C., and Wolf.)
- Wolf, William F., Somerville, N. J. Centrifugal casting machine. No. 1,415,421; May 9.
- Wolf, William F., Somerville, assignor to Wasson Piston Ring Company, Plainfield, N. J. Centrifugal casting machine. No. 1,425,927; Aug. 15.
- Wolfaardt, Pieter H., Bloemhof, Transvaal, South Africa. Electrical switch for mechanical signals. No. 1,413,249; Apr. 18.
- Wolfe, Arthur P., Philadelphia, Pa. Bean-snipping machine. No. 1,436,746; Nov. 28.
- Wolfe, Arthur P., Lockport, N. Y., assignor to Harrison Radiator Corporation. Anchorage for automobile radiators. No. 1,405,245; Jan. 31.
- Wolfe, Arthur P., Lockport, N. Y., assignor to Harrison Radiator Corporation. Supporting and actuating means for automobile radiator shutters. No. 1,423,982; July 25.
- Wolfe, Claud D., assignor of one-half to A. W. Moore, Little Rock, Ark. Hand canceling machine. No. 1,404,417; Jan. 24.
- Wolfe, Clinton L., Brooklyn, and J. A. Faurot, New York, N. Y. Window-hole protector. No. 1,407,975; Feb. 28.
- Wolfe, Cyrus H., Charlotte, assignor of one-fourth to L. R. Heintz and one-fourth to C. M. Heintz, Cabarrus County, N. C. Power shovel. No. 1,405,652; Feb. 7.
- Wolfe, Cyrus H., Charlotte, assignor of one-fourth to L. R. Heintz and one-fourth to C. M. Heintz, Cabarrus County, N. C. Shovel. No. 1,405,653; Feb. 7.
- Wolfe, Daniel D., assignor of one-half to H. Cohen, Washington, D. C. Shoe-shining parlor. No. 1,421,646; July 4.
- Wolfe, Harry H., assignor to The American Floor Surfacing Machine Company, Toledo, Ohio. Floor-surfacing machine. No. 1,438,283; Dec. 12.
- Wolfe, James T., Washington, D. C. Foldable vehicle top. No. 1,423,061; July 18.
- Wolfe, John A., Tulsa, Okla. Deep-well fishing tool. No. 1,429,263; Sept. 19.
- Wolfe, John W., assignor of one-third to J. T. Scott, Washington, D. C. Air hammer. No. 1,416,086; May 16.
- Wolfe, Laura J., Whitman, Mass. Mop holder. No. 1,433,326; Oct. 24.
- Wolfe, Leon S., Washington, D. C., assignor to The J. M. Ney Company, Hartford, Conn. Lingual bar. No. 1,433,770; Oct. 31.
- Wolfe, Rowland H., Chicago, Ill. Egg beater. No. 1,400,209; Mar. 14.
- Wolfe, Samuel C., Angola, Ind., assignor to Fernald Manufacturing Company, North East, Pa. Windshield clearer. No. 1,432,819; Oct. 24.
- Wolfe, Walter G., San Pedro, Calif. Autoclamping lamp guard. No. 1,410,150; Mar. 21.
- Wolfe, William E., Wilder, Va. Switch system for mine locomotives. No. 1,413,250; Apr. 18.
- Wolfe, William E., Wilder, assignor to Clinchfield Coal Corporation, Dante, Va. Gathering-reel mounting for mine locomotives. No. 1,409,328; Mar. 14.
- Wolffes, Otto. (See Willstätter, R., Wolffes, and Maeder.)
- Wolffes, Otto, and H. Maeder, Darmstadt, Germany. Preparation of tropinone monocarboxylic-acid esters. No. 1,419,092; June 6.
- Wolffes, Otto, and H. Maeder, Darmstadt, Germany. Tropinone-monocarboxylic-acid ester and preparing the same. No. 1,420,900; June 27.
- Wolff, Aaron H., New York, N. Y. Gas heater. No. 1,410,280; Mar. 21.
- Wolff, Aaron H., New York, N. Y. Gas heater. No. 1,410,326; Mar. 21.
- Wolff, Albert, Berlin, Germany. Sterilizing air. No. 1,423,704; July 25.
- Wolff, Albert, Hamburg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Cleaning sulphonic acid. No. 1,428,197; Sept. 5.
- Wolff, August, New York, N. Y. Agricultural machine. No. 1,402,822; Jan. 10.
- Wolff, Eugen, Tempelhof, near Berlin, Germany. Taking an orchestra conductor for cinematographic exhibition. No. 1,422,909; July 18.
- Wolff, Fredrick J., Newark, and A. H. Wegener, Hoboken, N. J. Rack. No. 1,427,142; Aug. 29.
- Wolff, Harry O., Chicago, Ill. Extensible bracket for window drapery rods. No. 1,405,953; Feb. 7.
- Wolff, Harry O., Chicago, Ill. Support for curtains and draperies. No. 1,433,977; Oct. 31.
- Wolff, Lorenz R., Los Angeles, Calif. Phonograph. No. 1,406,711; Feb. 14.
- Wolff, Lorenz R., Los Angeles, Calif. Automatic stop and start device for phonographs. No. 1,407,908; Feb. 28.
- Wolff, Louis, New York, N. Y. Resilient attachment for bicycles. No. 1,432,376; Oct. 17.
- Wolff, Oscar M., Chicago, Ill. Speaking device. No. 1,433,166; Oct. 24.
- Woll, Paul E., Philadelphia, Pa. Cleaning, deodorizing, and drying feathers. No. 1,402,823; Jan. 10.
- Wollgram, Ludwig, Erie, Pa. Machine for straightening pipes, rods and the like. No. 1,408,791; Mar. 7.
- Wolfs, Jean F., Newark, N. J. Caster. No. 1,421,647; July 4.
- Wolfs, Jean F., Newark, N. J. Oil cup. No. 1,439,350; Dec. 19.
- Wolffsohn, L. M. (now by judicial change of name L. M. Woolson), Hoboken, N. J., assignor, by mesne assignments, to Bijur Motor Appliance Company. Ignition apparatus. No. 1,430,870; Oct. 3.
- Wolffsohn, Charles, Boston, Mass. Sanitary massage pad. No. 1,425,158; Aug. 8.
- Wolfsen, Julius, Philadelphia, Pa. Electrically-operated valve of a gas burner or gas supply. No. 1,421,648; July 4.
- Volkenhauer, Frederick H., Bensenville, Ill. Furnace. No. 1,410,049; Mar. 21.
- Wollbrandt, August E. F., Oakland, Calif. Dumping truck. No. 1,410,862; Mar. 28.
- Wollensak, Andrew, and F. A. G. Pirwitz, assignors to Wollensak Optical Company, Rochester, N. Y. Photographic shutter. No. 1,435,999; Nov. 21.
- Wollesen, William F., Raymond, Wash. Sash fastener. No. 1,412,154; Apr. 11.
- Wollo Ignition Products Company. (See Frommeyer, Frank, assignor.)
- Wolloff, Edward T., et al. (See Marion, Frank, assignor.)

Alphabetical list of patentees—Continued.

- Wolnick, Henry F., Chicago, Ill., assignor to American Car and Foundry Company, New York, N. Y. Punch and die for strengthening valve stems. No. 1,405,473; Feb. 7.
- Wolnick, Henry F., Chicago, Ill., assignor to American Car and Foundry Company, St. Louis, Mo. Broaching fixture. No. 1,432,226; Oct. 17.
- Wolnick, Henry F., and R. Hervig, Chicago, Ill., assignors to American Car and Foundry Company, St. Louis, Mo. Automatic chuck. No. 1,432,225; Oct. 17.
- Wolpert, Albert, Pittsburgh, Pa. Adding and subtracting device. No. 1,406,712; Feb. 14.
- Wolter, Antone E., Olympia, Wash. Race knife. No. 1,413,308; Apr. 18.
- Wolters, Theodore A., assignor to Sanitary Beverage Mixer Co., Inc., New York, N. Y. Beverage mixer. No. 1,431,715; Oct. 10.
- Woltz, Albert M., assignor to S. Himmel, Baltimore, Md. Store-service cabinet. No. 1,406,129; Feb. 7.
- Wolvekamp, Mari E., Oakland, Calif. Colloidal compound of antimony sulphide. No. 1,412,438; Apr. 11.
- Wolvekamp, Mari E., Oakland, Calif. Soluble combination with a colloidal sulpharsenite. No. 1,412,439; Apr. 11.
- Wolvekamp, Mari E., Oakland, Calif. Chemical compound. No. 1,412,440; Apr. 11.
- Wolvekamp, Mari E., Oakland, Calif. Interference tubes for phonographs and telephones. No. 1,429,993; Sept. 26.
- Wolverton, Don S., Doland, S. Dak. Harrow. No. 1,430,483; Sept. 26.
- Wolverton, Percy B., Chicago, Ill. Transmission mechanism. No. 1,412,498; Apr. 11.
- Womack, Foster B., Port Arthur, Tex. Direction signal for automobiles. No. 1,406,130; Feb. 7.
- Womack, Frank, Los Angeles, Calif. Rotor vaporizing oil burner. No. 1,432,227; Oct. 17.
- Woman's Institute of Domestic Arts & Sciences, Inc. (See Janikus, Jack C., assignor.)
- Wonder Grain Cleaner Company, The. (See Mettler, Christoph. Sr., assignor.) (Reissue.)
- Wonder Trap Co. (See Baker, W. E., and Sonneman, assignors.)
- Wong, Alice T., Kapaa, Kauai, Hawaii. Shampoo comb. No. 1,439,594; Dec. 19.
- Woock, Eric M. (See Woock, Herbert J., W. R., and E. M.)
- Woock, Eric M. (See Woock, Walter R., H. J., and E. M.)
- Woock, Herbert J., W. R., and E. M., Lodi, Calif. Pump and motor unit. No. 1,405,959; Feb. 7.
- Woock, Herbert J. (See Woock, Walter R., H. J., and E. M.)
- Woock, Walter R. (See Woock, Herbert J., W. R., and E. M.)
- Woock, Walter R., H. J., and E. M., assignors to Superior Manufacturing Company, Lodi, Calif. Unit pump and motor for submerged service. No. 1,425,308; Aug. 8.
- Wood, Abraham and G., Stubbins, near Manchester, England. Cloth and like guider or feeder. No. 1,434,179; Oct. 31.
- Wood, Alan D., Philadelphia, assignor of one-third to H. A. Lewis, Norristown, Pa. Magnetic lifting device. No. 1,432,822; Oct. 24.
- Wood, Albert B., et al. (See Earl, George G., assignor.)
- Wood, Albert B., New Orleans, La. Valve. No. 1,406,799; Feb. 14.
- Wood, Albert D., L. Trantham, and E. T. Self, Canton, N. C. Pulp-wood breaker. No. 1,414,914; May 2.
- Wood, Albert G., Wilmer, assignor of one-half to W. A. Claunch, Maypearl, Tex. Double-row lister. No. 1,402,276; Jan. 3.
- Wood, Alexander H., Kildav, Ky., assignor to Wood Equipment Company, Chicago, Ill. Rotary car tippie. No. 1,426,027; Aug. 15.
- Wood, Alfred J., Waldwick, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,418,506; June 6.
- Wood, Andrew C., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Magnetic speedometer. No. 1,415,079; May 9.
- Wood, Andrew C., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Counter train. No. 1,418,507; June 6.
- Wood, Arthur C., Mansfield, Ohio, assignor, by mesne assignments, to The Mansfield Lamp and Manufacturing Company. Reflector lamp. No. 1,417,123; May 23.
- Wood, Arthur C., Mansfield, Ohio, assignor, by mesne assignments, to The Mansfield Lamp and Manufacturing Company. Light-projection-regulating means. No. 1,427,251; Aug. 29.
- Wood, Arthur C., Mansfield, Ohio, assignor, by mesne assignments, to The Mansfield Lamp and Manufacturing Company. Light-projection regulating means. No. 1,437,124; Nov. 28.
- Wood, Arthur C., Mansfield, Ohio, assignor, by mesne assignments, to The Mansfield Lamp and Manufacturing Company. Light-ray interceptor. No. 1,439,782; Dec. 26.
- Wood, Arthur J., Birmingham, Mich. Buckle. No. 1,406,517; Feb. 14.
- Wood, Benjamin F., Maplewood, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Boiler furnace. No. 1,428,128; Sept. 5.
- Wood Bros. Thresher Co. (See Traviss, Norman W., assignor.)
- Wood, Casimir J., San Francisco, Calif. Separator and drier. No. 1,416,922; May 23.
- Wood, Cecil R., and M. T. Tipsord, Taylorville, Ill. Clamping device for use in splicing line wire. No. 1,440,200; Dec. 26.
- Wood, Charles A., Rothsay, Minn. Sprayer. No. 1,439,461; Dec. 19.
- Wood, Charles R., Fargo, N. Dak. Rule pocket. No. 1,407,827; Feb. 28.
- Wood, Charles R., Fargo, N. Dak. Pocket for wearing apparel. No. 1,431,275; Oct. 10.
- Wood, Clarence. (See Smith, Newton A., assignor.)
- Wood, Clarence G., Muncie, Ind. Friction clutch. No. 1,402,129; Jan. 3.
- Wood, Clarence G., assignor to Hoosier Clutch Company, Muncie, Ind. Clutch-lever collar. No. 1,429,479; Sept. 19.
- Wood, Claude W., et al. (See Mudge, Harry, assignor.)
- Wood, David T. B., London, England. Apparatus for filing cards. No. 1,419,656; June 13.
- Wood, Edward C., Somerville, assignor to Submarine Signal Company, Boston, Mass. Microphone mounting. No. 1,419,596; June 13.
- Wood, Edward C., Somerville, Mass., assignor to Submarine Signal Company, Portland, Me. Diaphragm tuning. No. 1,429,664; Sept. 19.
- Wood, Edward W., Brooklyn, N. Y. Heel binder. No. 1,424,609; Aug. 1.
- Wood, Edwin P., Sandersville, Ga. Change-speed gear. No. 1,411,232; Mar. 28.
- Wood, Emory S., Commerce, Ga. Article display and delivering cabinet. No. 1,426,844; Aug. 22.
- Wood Equipment Company. (See Wood, Alexander H., assignor.)
- Wood, Evans, Tuttle, Idaho. Water tank. No. 1,422,325; July 11.
- Wood, Florence A., Warsaw, Ind. Bedpan. No. 1,436,133; Nov. 21.
- Wood, Frank J., Brooklyn, N. Y. Steam-engine cycle. No. 1,434,079; Oct. 31.
- Wood, Frank M., Sacramento, Calif. Spark plug. No. 1,417,876; May 30.
- Wood, Frank W. (See Gerson, Louis J., assignor.)
- Wood, Frank W., Montclair, N. J. Signaling apparatus. No. 1,419,708; June 13.
- Wood, Frank W., Montclair, N. J., assignor to Charles Cory & Son, Incorporated, New York, N. Y. Annunciator drop. No. 1,405,812; Feb. 7.
- Wood, Frank W., assignor to Charles Cory & Son Inc., New York, N. Y. Producing step-by-step movement. No. 1,408,555; Mar. 7.
- Wood, Frank W., Montclair, N. J., assignor to Charles Cory & Son, Incorporated, New York, N. Y. Rotary annunciator. No. 1,420,801; June 27.
- Wood, Frederick P., Oak Park, Ill., assignor to American Can Company, New York, N. Y. Box. No. 1,431,616; Oct. 10.
- Wood, Frederick W., Ashton-under-Lyne, assignor to Woods Die Press Improvements Company, Limited, London, England. Die press for printing and embossing. No. 1,423,589; July 25.
- Wood, Garfield A., Detroit, Mich. Dumping truck. No. 1,406,131; Feb. 7.
- Wood, George, Seattle, Wash., assignor to Ti-It Machine Co., San Francisco, Calif. Box-strapping tool. No. 1,432,314; Oct. 17.
- Wood, George A., Elmira, N. Y. Traffic post. No. 1,402,465; Jan. 3.
- Wood, George A., Elmira, N. Y. Self-righting traffic post. No. 1,435,363; Nov. 14.
- Wood, George B., Detroit, Mich. Tire-tube-repairing kit. No. 1,434,577; Nov. 7.
- Wood, George C., Winthrop, Mass., assignor to Wids Company, St. Paul, Minn. Rubber heel. No. 1,412,076; Apr. 11.
- Wood, George R., Dayton, Ohio, assignor to International Time Recording Company of New York. Recording mechanism. No. 1,413,646; Apr. 25.
- Wood, Granville. (See Wood, Abraham and G.)
- Wood, Hamilton B. (See Murphy, John F., assignor.)
- Wood, Harry L., assignor to Premier Warm Air Heater Company, Dowagiac, Mich. Furnace damper. No. 1,402,824; Jan. 10.
- Wood, Harry L., assignor to Premier Warm Air Heater Company, Dowagiac, Mich. Furnace casing and front. No. 1,410,789; Mar. 28.
- Wood, Harry L., assignor to The American Speed-O-Feeder Company, Cleveland, Ohio. Coupling. No. 1,411,468; Apr. 4.
- Wood, Harry L., assignor to Premier Warm Air Heater Company, Dowagiac, Mich. Furnace construction. No. 1,412,989; Apr. 18.
- Wood, Harry M., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,430,712; Oct. 3.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Web-renewing device. No. 1,402,989; Jan. 10.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Pump for stereotyping and means for supplying metal thereto. No. 1,406,518; Feb. 14.

- Wood, Henry A. W., assignor, by mesne assignments, to Wood Newspaper Machinery Corporation, New York, N. Y. Paper feed roll clutch. No. 1,410,090; Mar. 21.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Means for preventing vibration of printing-press cylinders. No. 1,417,652; May 30.
- Wood, Henry A. W., assignor to The Wood Newspaper Machinery Corporation, New York, N. Y. Device for delivering stereotype printing plates and tails from a finishing machine. No. 1,418,417; June 6.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Metal-supplying device. No. 1,418,418; June 6.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Continuous ink-distributing mechanism. No. 1,419,189; June 13.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Page cut-off device for ink fountains. No. 1,422,017; July 4.
- Wood, Henry A. W., New York, and J. A. Isbell, Middletown, assignors to Wood Newspaper Machinery Corporation, New York, N. Y. Late-news-printing device. No. 1,414,107; Apr. 25.
- Wood, Henry A. W., New York, N. Y., and C. Nordfors, Jersey City Heights, N. J., assignors to Wood Newspaper Machinery Corporation, New York, N. Y. Folding delivery mechanism. No. 1,419,188; June 13.
- Wood, Henry A. W., New York, and J. A. Isbell, Middletown, assignors to Wood Newspaper Machinery Corporation, New York, N. Y. Inking device for late-news and other printing machines. No. 1,428,310; Sept. 5.
- Wood, Ira C., Pasadena, assignor of forty-nine one-hundredths to F. M. Renfro, San Bernardino, Calif. Colored lighting system. No. 1,405,246; Jan. 31.
- Wood, James. (See Lee, Robert E., assignor.)
- Wood, James A. (See Gutridge, J. A., and Wood.)
- Wood, James J., Fort Wayne, Ind., assignor, by mesne assignments, to General Electrical Company. Clothes wringer. (Reissue.) No. 15,266; Jan. 10.
- Wood, James J., Fort Wayne, Ind., assignor to General Electric Company. Washing machine. No. 1,403,882; Jan. 17.
- Wood, James N., Washington, D. C. Hydraulic press. No. 1,429,665; Sept. 19.
- Wood, John T., East St. Louis, Ill. Washboiler attachment. No. 1,423,823; July 25.
- Wood, Leander W., Fontanelle, Iowa. Resilient tire. No. 1,405,960; Feb. 7.
- Wood, Luke P., Uniontown, Pa. Cable-roller bracket. No. 1,409,807; Mar. 14.
- Wood, Lyndon D. (See Falk, Hilbert L., assignor.)
- Wood, Lyndon D., Bala, Pa. Coating composition and process. No. 1,430,484; Sept. 26.
- Wood, Montraville M., Berwyn, Ill. Portable truck. No. 1,422,730; July 11.
- Wood Newspaper Machinery Corporation. (See Nordfors, Conrad, assignor.)
- Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
- Wood Newspaper Machinery Corporation. (See Wood, H. A. W., and Isbell, assignors.)
- Wood Newspaper Machinery Corporation. (See Wood, H. A. W., and Nordfors, assignors.)
- Wood, Percival J., Paterson, N. J. Forming printing surfaces. No. 1,436,423; Nov. 21.
- Wood, Percival J., Paterson, N. J. Forming printing surfaces. No. 1,436,424; Nov. 21.
- Wood Products and By-Products Corporation. (See Fish, Frederick K., Jr., assignor.)
- Wood, Raymond L. (See Anderson, A. B., and Wood.)
- Wood, Robert, Brooklyn, N. Y. Lubricating apparatus. No. 1,414,610; May 2.
- Wood, Rusling. (See Schwanhausser, Frederick, assignor.)
- Wood-Smith, Noel E., Richmond, England. Typewriter word-counting device. No. 1,431,276; Oct. 10.
- Wood, Stanley O., et al. (See Kennedy, Homer R., assignor.) (Reissue.)
- Wood, Thomas A., Portsmouth, Va. Diving helmet. No. 1,409,808; Mar. 14.
- Wood, Thomas E., Amarillo, Tex. Gas stove. No. 1,406,800; Feb. 14.
- Wood, Truman A. and W. T., Wichita, Kans. Hoisting and straw-conveying machine. No. 1,439,047; Dec. 19.
- Wood, Walter D., Cranston, R. I. Pearl-coat-distributing machine. No. 1,424,544; Aug. 1.
- Wood, Wilfred R., London, England. Drying fuel supplied to furnaces or the like. No. 1,427,045; Aug. 22.
- Wood, Wilfred R., London, England. Fuel feeding and drying apparatus. No. 1,432,509; Oct. 17.
- Wood, William, Glenrock, Wyo. Oil burner. No. 1,431,074; Oct. 3.
- Wood, William C., Centralia, Ill. Bank protective apparatus. No. 1,435,038; Nov. 7.
- Wood, William G., Berkeley, assignor to Berkeley Light Corporation, San Francisco, Calif. Headlight. No. 1,403,280; Jan. 10.
- Wood, William G., assignor to Berkeley Light Corporation, San Francisco, Calif. Focusing device. No. 1,416,394; May 16.
- Wood, William G., San Francisco, Calif., assignor to Berkeley Light Corporation, Carson City, Nev. Headlight. No. 1,419,482; June 13.
- Wood, William H., South Euclid, Ohio. Storage battery. No. 1,405,702; Feb. 7.
- Wood, William H., South Euclid, Ohio. Storage battery. No. 1,405,703; Feb. 7.
- Wood, William H., Cleveland, Ohio. Storage battery. No. 1,432,937; Oct. 24.
- Wood, William H., Cleveland, Ohio. Separator for storage batteries. No. 1,432,939; Oct. 24.
- Wood, William H., South Euclid, and H. E. Smith, Cleveland Heights, Ohio; said Smith assignor to said Wood. Battery separator. No. 1,432,938; Oct. 24.
- Wood, William H., Norwalk, Conn., assignor to Electric Outlet Company, Inc., New York, N. Y. Outlet box. (Reissue.) No. 15,504; Dec. 5.
- Wood, William R., Crafton, Pa. Reversible window construction. No. 1,405,247; Jan. 31.
- Wood, William T. (See Wood, Truman A. and W. T.)
- Wood, William T., Nashville, Tenn. Vapor burner. No. 1,434,241; Oct. 31.
- Wood, William W., La Fayette, Ind. Releasing device for air brakes. No. 1,402,333; Jan. 3.
- Woodard, Louis A., and H. H. Talbot, Wooster, Ohio. Gear-cutting machine. No. 1,421,116; June 27.
- Woodard, Louis E., Cincinnati, Ohio. Method and means for printing. No. 1,406,132; Feb. 7.
- Woodard, William B., Forest Hills, N. Y. Centering device for trucks. No. 1,406,801; Feb. 14.
- Woodard, William E., Forest Hills, N. Y. Railway truck. No. 1,417,653; May 30.
- Woodard, William B., Forest Hills, N. Y. Trailer truck for locomotives. No. 1,423,895; July 25.
- Woodard, William E., Lima, Ohio. Locomotive cut-off indicator. No. 1,433,586; Oct. 31.
- Woodard, William E., Forest Hills, N. Y., assignor to Franklin Railway Supply Company. Draft connection. No. 1,426,436; Aug. 22.
- Woodard, William E., Forest Hills, N. Y., assignor to Franklin Railway Supply Company. Truck for railway vehicles. No. 1,429,008; Sept. 12.
- Woodbridge, Richard G., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Treating pyro smokeless powder. No. 1,439,656; Dec. 19.
- Woodbury, Charles H., Los Angeles, Calif. Quick-detachable tire-valve dust cap. No. 1,421,117; June 27.
- Woodbury, Clifford A., Media, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Nitroglycerin explosive. No. 1,434,642; Nov. 7.
- Woodbury, John B. (See Soule, G. C., and Woodbury.)
- Woodford, Charles P., Spooner, Wis. Tilting mechanism for automobile headlights. No. 1,418,769; June 6.
- Woodford, Frank E. (See Weber, B. F., and Woodford.)
- Woodhouse, George H., Seattle, Wash. Means for preheating volatile fuel. No. 1,413,090; Apr. 18.
- Woodhouse, George J., Oelwein, Iowa. Water purifier for steam boilers. No. 1,432,941; Oct. 24.
- Woodhouse, Henry, et al. (See Cook, Lawrence E., assignor.)
- Woodhouse, Henry, New York, N. Y. Map holder. No. 1,430,207; Sept. 26.
- Woodhull, Llewellyn S., L. M. Prentice, and J. H. Rice, Detroit, Mich.; said Woodhull assignor to said Prentice and Rice, Milwaukee, Wis. Repeating mechanism for phonographs. No. 1,430,780; Oct. 3.
- Woodhull, Timothy M., Swansboro, N. C. Basket. No. 1,418,508; June 6.
- Woodings, Emanuel, Verona, assignor to Verona Tool Works, Pittsburgh, Pa. Rail spring. No. 1,416,152; May 16.
- Woodings, Emanuel, assignor to Verona Tool Works, Verona, Pa. Anticreeping device for railway rails. No. 1,430,871; Oct. 3.
- Woodings, Emanuel, assignor to Verona Tool Works, Verona, Pa. Anticreeping device for railway rails. No. 1,430,872; Oct. 3.
- Woodland, John E., Brooklyn, N. Y. Safety device for motion-picture machines. No. 1,407,616; Feb. 21.
- Woodliff, George, Jr., and J. N. May, Chicago, Ill. Globe retainer. No. 1,412,588; Apr. 11.
- Woodling, Miner D., Kansas City, Mo. Radiator bracket. No. 1,408,556; Mar. 7.
- Woodman, George A., assignor of one-half to C. A. Carscadin, Chicago, Ill. Uncoupling device for railway cars. No. 1,421,351; June 27.
- Woodman, William E. (See Crompton, R., and Woodman.)
- Woodman, William E. (See Crompton, R., Woodman, and Adams.)
- Woodman, William H., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Self-lubricating leaf spring. No. 1,427,340; Aug. 29.
- Woodring, A. I., Company. (See Lamb, William G., assignor.)
- Woodring, A. I., Company, The. (See Woodring, Alberto I., assignor.)
- Woodring, Alberto I., assignor to The A. I. Woodring Company, Waterloo, Iowa. Signal-governing apparatus. No. 1,412,990; Apr. 18.
- Woodring, Alberto I., assignor to The A. I. Woodring Company, Waterloo, Iowa. Signal-governing apparatus. No. 1,417,124; May 23.
- Woodring, Alberto I., assignor, by mesne assignments, to National Safety Devices Company, Waterloo, Iowa. Signal-governing apparatus. No. 1,419,435; June 13.

Alphabetical list of patentees—Continued.

- Woodring, Alberto I., assignor, by mesne assignments, to National Safety Device Company, Waterloo, Iowa. Automatic bell-ringing device. No. 1,429,666; Sept. 19.
- Woodring, Alberto I., assignor, by mesne assignments, to National Safety Devices Company, Waterloo, Iowa. Signaling apparatus. No. 1,430,273; Sept. 26.
- Woodrow, Irvin F., Philadelphia, Pa., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del. Gauge. No. 1,422,161; July 11.
- Woodruff, Albert N., New York, N. Y. Copy-holding device. No. 1,414,389; May 2.
- Woodruff, Frank, Rochester, Pa. Liquid-vending apparatus. No. 1,417,439; May 23.
- Woodruff, Frank, assignor to Guarantee Liquid Measure Company, Rochester, Pa. Liquid-vending apparatus. No. 1,404,418; Jan. 24.
- Woodruff, Lovell H., Fort Worth, Tex., assignor to J. E. Shaffer, Tulsa, Okla. Gauge cock. No. 1,432,510; Oct. 17.
- Woodruff, Pearl B., Humeston, Iowa. Engine support and crank case. No. 1,432,820; Oct. 24.
- Woodruff, Roswell. (See Schermerhorn, E. W., and Woodruff.)
- Woodruff, Vincent O., Bridgeton, N. J. Resilient tire. No. 1,419,001; June 6.
- Woods, Carl, Griggsville, Ill. Scoop board. No. 1,421,336; June 27.
- Woods, Charles H., and A. Ruebsamen, assignors to Decatur Supply and Fare Register Company, Decatur, Ill. Register. No. 1,418,770; June 6.
- Woods, Charles S., Indianapolis, Ind. Ice chipper. No. 1,409,989; Mar. 21.
- Woods, Charles S., Indianapolis, Ind. Adjustable bedstead for invalids. No. 1,417,654; May 30.
- Woods Die Press Improvements Company, Limited. (See Wood, Frederick W., assignor.)
- Woods, Frederick N., jr. (See Hadsel, Alvah D., assignor.)
- Woods, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Protective device. No. 1,428,869; Sept. 12.
- Woods, George W., New York, N. Y. Combined burner and heater. No. 1,439,595; Dec. 19.
- Woods, John D., and D. J. Palmer, Steubenville, Ohio. Giz. No. 1,422,805; July 11.
- Woods, Joseph, Kansas City, Kans. Combined bread and carving board case. No. 1,403,883; Jan. 17.
- Woods, Leonard G., Pittsburgh, Pa. Brick pallet. No. 1,416,432; May 16.
- Woods Motor Vehicle Company. (See Stephenson, Leigh J., assignor.)
- Woods, Phineas S., Smithville, Mo. Aeroplane attachment. No. 1,415,754; May 9.
- Woods, Ralph C., Walla Walla, Wash. Pitting tool. No. 1,438,418; Dec. 12.
- Woods, S. A., Machine Company. (See Blood, C. W. H., and Osteman, assignors.)
- Woods, S. A., Machine Company. (See Medholdt, Louis T., assignor.)
- Woods, S. A., Machine Company. (See Osteman, Carl G., assignor.)
- Woods, S. A., Machine Company. (See Young, Percy H., assignor.)
- Woodsome, John O., Syracuse, N. Y., and J. H. Swan, Chicago, Ill. Steam circulating and regenerating system. No. 1,428,198; Sept. 5.
- Woodson, Charles W., Portland, Oreg. Harvester. No. 1,405,885; Feb. 7.
- Woodson, James C., Mansfield, Ohio, assignor to Westinghouse Electric Products Company. Electric bake oven. No. 1,425,620; Aug. 15.
- Woodson, James C., Mansfield, Ohio, assignor to Westinghouse Electric Products Company. Oven. No. 1,428,870; Sept. 12.
- Woodson, James C., Mansfield, Ohio, assignor to Westinghouse Electric Products Company. Heat cartridge. No. 1,433,691; Oct. 31.
- Woodson, John E., Cottage Grove, Oreg. Emergency stub axle. No. 1,410,863; Mar. 28.
- Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)
- Woodward, Alfred, Denver, Colo. Dumping body for trucks. No. 1,413,551; Apr. 18.
- Woodward, Alva W., Akron, Ohio, assignor, by mesne assignments, to Lawrence Carrier Corporation, Wilmington, Del. Tire carrier. No. 1,429,667; Sept. 19.
- Woodward Automatic Control Corporation. (See Woodward, Garrett W., assignor.)
- Woodward, Eugene A. (See Woodward, Irving C., assignor.)
- Woodward, Garrett W., assignor to Woodward Automatic Control Corporation, Chicago, Ill. Button block. No. 1,419,597; June 13.
- Woodward, Garrett W., assignor to Woodward Automatic Control Corporation, Chicago, Ill. Gear-shifting mechanism. No. 1,425,227; Aug. 8.
- Woodward, Garrett W., assignor to Woodward Automatic Control Corporation, Chicago, Ill. Automatic control mechanism. No. 1,428,199; Sept. 5.
- Woodward, Irving C., Chicago, Ill. Bolt for demountable wheels. No. 1,426,802; Aug. 22.
- Woodward, Irving C., Syracuse, N. Y., assignor to E. A. Woodward, Iron Mountain, Mich. Nut blank and locking nut. No. 1,416,087; May 16.
- Woodward, Jesse W., Clarks, La. Brake drum for car trucks. No. 1,402,825; Jan. 10.
- Woodward, John W., Montreal, Quebec, Canada. Garment hanger. No. 1,417,009; May 23.
- Woodward Machine Company. (See Brock, Richard E., assignor.)
- Woodward, Millard F., Alexandria, La. Resilient wheel. No. 1,439,462; Dec. 19.
- Woodward, Oscar, Babylon, assignor to Remington Accounting Machine Corporation, New York, N. Y. Calculating machine. No. 1,423,637; July 25.
- Woodward, Oscar, Babylon, assignor to Remington Typewriter Company, Ithaca, N. Y. Typewriting machine. No. 1,427,143; Aug. 29.
- Woodward, Samuel G., Trenton, Ontario, Canada. Railway tie. No. 1,410,281; Mar. 21.
- Woodward, Wellington R., Amesbury, Mass. Antirattling channel for windows. No. 1,435,039; Nov. 7.
- Woodward, William R., Brockton, assignor to Leather Steel Products Co., Boston, Mass. Mat. No. 1,414,243; Apr. 25.
- Woodworth, George K. (See Gile, William A., assignor.)
- Woodworth, Joseph V., Camp Kearney, Calif. Nut lock. No. 1,429,180; Sept. 12.
- Woodworth, Joseph V., Camp Kearney, Calif. Tool handle. No. 1,436,556; Nov. 21.
- Woody, Azariah B., Mountainview, Wyo. Centrifugal pump. No. 1,431,350; Oct. 10.
- Wooldard, Herbert, Stevenage, and J. H. F. Lodge, deceased, New Barnet, England; C. A. Lodge, administratrix. Folding door, partition, and wall. No. 1,416,540; May 16.
- Woolcock, John, assignor to W. J. Stewart, London, England. Molding of concrete products such as blocks, panels, structures, and the like. No. 1,423,983; July 25.
- Woolcott, Alfred W., assignor of one-half to Rea-Patterson Milling Company, Coffeyville, Kans. Flour-milling process. No. 1,424,608; Aug. 1.
- Woolbridge, John, Temple, assignor of one-half to M. Marks, Crawford, Tex. Cotton gin. No. 1,426,437; Aug. 22.
- Woolbridge, Robert S., New Plymouth, Taranaki, New Zealand. Tipping means for motor vehicles. No. 1,413,309; Apr. 18.
- Wooldrik, Solomon A., Sleepy Eye, Minn. Sawing attachment for tractors. No. 1,416,923; May 23.
- Woolf Cycle Motor Company, The. (See Woolf, Ellis J. and J. F., assignors.)
- Woolf, Ellis J. and J. F., assignors to The Woolf Cycle Motor Company, Minneapolis, Minn. Gas engine. No. 1,429,818; Sept. 19.
- Woolf, Jay F. (See Woolf, Ellis J. and J. F.)
- Woolf, Michael, New York, N. Y. Optical instrument. No. 1,432,821; Oct. 24.
- Woolfenden, Henry L. (See Patterson, D. W., and Woolfenden.)
- Woollard, Frank, Billerica, assignor of one-half to G. L. Woollard, Boston, Mass. Pedal lock for automobiles. No. 1,414,390; May 2.
- Woollard, Guy L. (See Woollard, Frank, assignor.)
- Woolley, Ernest L., Providence, R. I. Oil-burning apparatus. No. 1,428,574; Sept. 12.
- Woolley, Ernest S., Des Moines, Iowa, assignor to Fred Smith, Toronto, Ontario, Canada. Motor-vehicle light. No. 1,410,864; Mar. 28.
- Woolley, William D. (See Jenkins, W. P., and Woolley.)
- Woolsey, Charles A., Minneapolis, Minn. Milk crate. No. 1,433,327; Oct. 24.
- Woolson, Harry T., assignor to Packard Motor Car Company, Detroit, Mich. Gear-shifting mechanism. No. 1,434,643; Nov. 7.
- Woolson, Lionel M. (See Wolffsohn, Lionel M.)
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. No. 1,415,080; May 9.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. No. 1,424,430; Aug. 1.
- Woolson, Lionel M., Detroit, Mich., assignor to Bijur Motor Appliance Company. Ignition apparatus. No. 1,430,873; Oct. 3.
- Wooster, Warren W., Berlin, N. J. Indicator for downward deflection of railway rails. No. 1,415,287; May 9.
- Wooten, Charles T., deceased, Philadelphia, Pa., by David Bowers, executor, Laurel Springs, N. J., assignor to Manufacturing Company of America, Philadelphia, Pa. Box. No. 1,418,897; June 6.
- Worbois, Edson L., Tonawanda, assignor to Alberger Gas Engine Company, Buffalo, N. Y. Storage heater. No. 1,435,570; Nov. 14.
- Worcester Brush & Scraper Company. (See Fletcher, Edward F., assignor.)
- Worcester, Harold A., Troy, Ohio, assignor to Insley Manufacturing Company, Indianapolis, Ind. Multiple-section dump body. No. 1,428,930; Sept. 12.
- Worcester, James B., Middletown, N. Y. Vehicle wheel. No. 1,410,865; Mar. 28.
- Worcester Metal Goods Company. (See Lau, Fredrick J., assignor.)

- Worden, Charles W., Dallas City, Ill. Hayrack. No. 1,417,125; May 23.
- Worden, Stanley B. T., New York, N. Y. Holder. No. 1,433,167; Oct. 24.
- Work, Joseph V., Palisade, Nebr. Screw-driver attachment. No. 1,424,703; Aug. 1.
- Work Organizer Specialties Company. (See Casey, Charles C., assignor.)
- Worley, Frederick W., Mount Vernon, N. Y. Electrical apparatus. No. 1,431,555; Oct. 10.
- Worley, Henry W., Stockton, Calif. Folding crate. No. 1,413,149; Apr. 18.
- Worlow, Isaac W., Walters, Okla. Chain tightener. No. 1,405,248; Jan. 31.
- Worman, John F. (See Askren, E. J., Worman, and Zwick.)
- Worman, John W., Marseilles, Ill. Demurrage calculator. No. 1,440,326; Dec. 26.
- Worms, Sidney, New Rochelle, assignor to Franklin Knitting Mills, New York, N. Y. Necktie and making the same. No. 1,436,134; Nov. 21.
- Wormser, Marcel, Summit, N. J. Strung beads. No. 1,412,731; Apr. 11.
- Worner, George R., assignor to Taylor Instrument Companies, Rochester, N. Y. Engraving machine. No. 1,423,289; July 18.
- Woroniecki, Wincenty, Dickson City, Pa. Rail joint and fish plate. No. 1,402,130; Jan. 3.
- Woroniecki, Wincenty, Dickson, assignor to one-half to J. P. Paniczowski, Throop, Pa. Means for protecting third rails. No. 1,410,440; Mar. 21.
- Worrall, Lawrence P., Indianapolis, Ind. Means for attaching tires to demountable rims. No. 1,403,141; Jan. 10.
- Worrell, William G., Waxahachie, Tex. Tolling apparatus. No. 1,412,441; Apr. 11.
- Worth Brothers Corporation. (See Worth, John S., assignor.)
- Worth, Edmund W., assignor to American Optical Company, Southbridge, Mass. Grinding machine. No. 1,429,819; Sept. 19.
- Worth, George E., Rochester, N. Y. Press guard. No. 1,413,370; Apr. 18.
- Worth, James M., Chicago, Ill. Friction transmission mechanism. No. 1,404,676; Jan. 24.
- Worth, John S., Coatesville, Pa., assignor to Worth Brothers Corporation, Claymont, Del. Friction coupling. No. 1,438,077; Dec. 5.
- Worth, William A., assignor to Riverside Peanut Co., Petersburg, Va. Method of and apparatus for separating. No. 1,431,205; Oct. 10.
- Wortham, Richard W., et al. (See Swope, John S., assignor.)
- Worthington, Albert P. (See Reynolds, J. F., and Worthington.)
- Worthington, Everett, San Francisco, Calif. Store counter. No. 1,411,765; Apr. 4.
- Worthington, John T. (See Eddy, H. C., and Worthington.)
- Worthington, John V., Axminster, assignor to The Dunlop Rubber Company, Limited, Regent's Park, London, England. Manufacture of pneumatic tire casings. No. 1,419,907; June 13.
- Worthington Pump and Machinery Corporation. (See Aborn, George P., assignor.)
- Worthington Pump and Machinery Corporation. (See Barrett, Charles G., assignor.)
- Worthington Pump and Machinery Corporation. (See Bourne, Phillips P., assignor.)
- Worthington Pump and Machinery Corporation. (See Decrow, David A., assignor.)
- Worthington Pump and Machinery Corporation. (See Fleming, W. M., and Brigham, assignors.)
- Worthington Pump and Machinery Corporation. (See Folsom, Robert H., assignor.)
- Worthington Pump and Machinery Corporation. (See Grace, John F., assignor.)
- Worthington Pump and Machinery Corporation. (See Le Cain, John A., assignor.)
- Worthington Pump and Machinery Corporation. (See Riesner, Michael, assignor.)
- Worthington Pump and Machinery Corporation. (See Spillmann, Max, assignor.)
- Worthington Pump and Machinery Corporation. (See Stone, Joseph D., assignor.)
- Worthington, Tillman B., assignor to one-half to A. M. Bambrick, Scotland, Pa. Convertible chair and table. No. 1,425,354; Aug. 8.
- Wortmann, Otto, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical protective device. No. 1,432,006; Oct. 17.
- Worton, Samuel G., Duquesne, Pa. Regenerative furnace. No. 1,430,713; Oct. 3.
- Woytaszek, Joseph B., Geneseo, N. Dak. Gate. No. 1,434,180; Oct. 31.
- Wozny, Thomas, Graham, Wash. Horseshoe. No. 1,434,275; Oct. 31.
- Wrapping Ad Machine Co., The. (See Haase, Jorgen I., assignor.)
- Wray, Edward T. (See Caulkins, Theodore P., assignor.)
- Wray, William J., Philadelphia, assignor to J. P. Crossdale, Berwyn, Pa. Timing mechanism. No. 1,405,961; Feb. 7.
- Wread, William E., assignor to A. Y. Belverge, Los Angeles, Calif. Sash balance. No. 1,430,138; Sept. 26.
- Wrenn Adding Machine Company. (See Wrenn, Herbert A., assignor.)
- Wrenn, Herbert A., et al. (See Wrenn, H. A., and Phillips, assignors.)
- Wrenn, Herbert A., assignor to Wrenn Adding Machine Company, Washington, D. C. Calculating machine. No. 1,438,419; Dec. 12.
- Wrenn, Herbert A., and J. H. Phillips, Jr., assignors of twenty-one and one-third one-hundredths to P. M. Dorsch, twenty-one and one-third one-hundredths to H. A. Wrenn, twenty-one and one-third one-hundredths to J. B. Carter, eighteen one-hundredths to C. L. Parker, and eighteen one-hundredths to J. X. Phillips, Jr., Washington, D. C. Change-making device. No. 1,409,990; Mar. 21.
- Wriedt, Frederick, Alphington, assignor to Milo Machinery Company Proprietary Limited, Melbourne, Victoria, Australia. Crushing and grinding mill. No. 1,432,046; Oct. 17.
- Wright Aeronautical Corporation. (See Crane, Henry M., assignor.)
- Wright, Arthur, Montclair, N. J. Rod packing. No. 1,417,877; May 30.
- Wright, Arthur A., Chicago, Ill. Car washer. No. 1,411,321; Apr. 4.
- Wright, Bedie A., Hurdle Mills, N. C. Clothes-boiling and canning stove. No. 1,406,318; Feb. 14.
- Wright, Bert R., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Brake for centrifugal machines. No. 1,407,777; Feb. 28.
- Wright, Carroll D., Webster, N. Y. Quick-detachable cap. No. 1,406,133; Feb. 7.
- Wright, Charles A., assignor to one-half to E. S. Robinson, Los Angeles, Calif. Bag holder. No. 1,412,382; Apr. 11.
- Wright, Charles F., Akron, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Shuck-feeding mechanism for box-filling machines. No. 1,433,328; Oct. 24.
- Wright, Charles F., Akron, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Safety device for punches. No. 1,433,329; Oct. 24.
- Wright, Charles F., Akron, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Machine for feeding and assembling box trays and covers. No. 1,439,856; Dec. 26.
- Wright, Charles L., Kansas City, Mo. Thief alarm for automobiles. No. 1,415,081; May 9.
- Wright, Charles V., Tamaqua, Pa. Sharpening tool. No. 1,405,730; Feb. 7.
- Wright, Charles V., Tamaqua, Pa. Gear. No. 1,435,571; Nov. 14.
- Wright, Charles W. (See Wright, George S. and C. W.)
- Wright, Clarence L., Fairmead, Calif. Carriage for drag scrapers. No. 1,409,509; Mar. 14.
- Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Elevator. No. 1,420,010; June 20.
- Wright, David C., and E. W. Cornell, Indianapolis, Ind. Ticket and label printing machine. No. 1,419,345; June 13.
- Wright, Edward, Dayton, Ohio. Tire core. No. 1,415,755; May 9.
- Wright, Edward B., and W. W. Weaver, Fitchburg, Mass. Paper machine. No. 1,419,002; June 6.
- Wright, Frederick E., Washington, D. C. Eyepiece prism. No. 1,417,962; May 30.
- Wright, George, San Francisco, Calif. Boat-launching apparatus. No. 1,424,227; Aug. 1.
- Wright, George M. (See Round, H. J., and Wright.)
- Wright, George M., Worcester, Mass. Wire lathing. No. 1,406,519; Feb. 14.
- Wright, George M., Chesterfield, England, assignor to Radio Corporation of America. Radiogoniometer. No. 1,426,137; Aug. 15.
- Wright, George R., Vancouver, British Columbia, Canada. Ignition device. No. 1,411,703; Apr. 4.
- Wright, George S. and C. W., Philadelphia, Pa. Composition of matter for paving blocks, building blocks, and the like. No. 1,421,751; July 4.
- Wright, George S. and C. W., Philadelphia, Pa. Paving block. No. 1,417,010; May 23.
- Wright, George W., Los Angeles, Calif. Pump. No. 1,419,436; June 13.
- Wright, George W., and T. J. Pension, assignors of three-eighths to said Wright, three-eighths to said T. J. Pension, and one-fourth to T. M. Pension, Philadelphia, Pa. Locking device for automobiles. No. 1,429,181; Sept. 12.
- Wright, Harry A., Springfield, assignor to The Wright Multiple Valve Grinder Co., Fitchburg, Mass. Valve grinder. No. 1,418,419; June 6.
- Wright, Harry H. L. and W. B. Price, Montour Falls, N. Y. Dough-greasing apparatus. No. 1,434,181; Oct. 31.
- Wright, Henry R., Philadelphia, Pa. Blacking box. No. 1,433,587; Oct. 31.
- Wright-Hibbard Industrial Electric Truck Co. (See Wright, William H., assignor.)
- Wright, Howard G., Bon Air, Va. Chair. No. 1,432,144; Oct. 17.
- Wright, Ira O., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Draft rigging. No. 1,407,976; Feb. 28.
- Wright, Isaac H., Salford, England. Gear-cutting machine. No. 1,423,062; July 18.
- Wright, Jacob H., Louisville, Ky. Plant-dusting machine. No. 1,420,601; June 20.
- Wright, James E., Bay City, Mich. Hoop-forming machine. No. 1,426,028; Aug. 15.

Alphabetical list of patentees—Continued.

- Wright, James W., Iowa, La. Platform for tractors. No. 1,426,938; Aug. 22.
- Wright, John D., Schenectady, N. Y., assignor to General Electric Company. Motor control. No. 1,426,939; Aug. 22.
- Wright, John E., Pleasant Lake, Ind. Flash-light holster. No. 1,416,153; May 16.
- Wright, John F., Prenton, Birkenhead, England. Lid for sirup tins or the like. No. 1,402,559; Jan. 3.
- Wright, John J. (See Case, John J., assignor.)
- Wright, John P., Newark, Del. Phonograph disk or record. No. 1,438,078; Dec. 5.
- Wright, John W. (See Collison, J. G., Wright, Filbert, and Frank.)
- Wright, John W., Philadelphia, Pa., assignor to American Telephone and Telegraph Company. Calculating guy rule. No. 1,429,264; Sept. 19.
- Wright, Joseph L., assignor to J. R. Garfield, trustee, Cleveland, Ohio. Telephone-exchange system. No. 1,436,135; Nov. 21.
- Wright, Leon B., Lyndonville, N. Y. Locking means for motor vehicles. No. 1,421,054; June 27.
- Wright, Leslie D., London, England. Stand for cameras. No. 1,418,898; June 6.
- Wright, Lewis S., Peoria, Ill. Tractor hitch. No. 1,407,365; Feb. 21.
- Wright, Malcolm, and H. Becker, Baltimore, Md. Safety lock. No. 1,438,420; Dec. 12.
- Wright Multiple Valve Grinder Co., The. (See Wright, Harry A., assignor.)
- Wright, Parvin. (See Gerrard, A. J., and Wright.)
- Wright, Parvin, Chicago, Ill. Machine for feeding and cutting wire. No. 1,435,438; Nov. 14.
- Wright, Paul, Birmingham, Ala. Boiler. No. 1,437,790; Dec. 5.
- Wright, R. G., & Co. (See Cundall, Robert N., assignor.)
- Wright Rubber Products Company. (See Healy, Leon J. D., assignor.)
- Wright, Samson D. (See Boyer, William E., assignor.)
- Wright, Samson D. (See Schellentrager, R. W., and Clarkson, assignors.)
- Wright, Sherman L., Clay City, Ind. Mail-box support. No. 1,440,043; Dec. 26.
- Wright, Stanley R., Rawdon, near Leeds, England, assignor to Igranic Electric Company, Limited, London, England. Coil-winding machine. No. 1,440,044; Dec. 26.
- Wright, Theodore P. (See Gilmore, W. L., and Wright.)
- Wright, Walter, Kalgortlie, assignor of six-eighths to B. Weiss, Perth, Western Australia, Australia. Railway signaling and collision-prevention apparatus. No. 1,431,075; Oct. 3.
- Wright, Wilbur L., Fulton, N. Y. Paper material and composition for treating the same. No. 1,420,173; June 20.
- Wright, Wilbur L., assignor to Sealright Co., Inc., Fulton, N. Y. Closure disk for containers. No. 1,403,532; Jan. 17.
- Wright, Wilbur L., assignor to Sealright Co., Inc., Fulton, N. Y. Paper container for greaseliike substances. No. 1,417,707; May 30.
- Wright, Wilbur L., assignor to Sealright Co., Inc., Fulton, N. Y. Rendering paper and paper containers grease-proof. No. 1,417,708; May 30.
- Wright, Wilbur L., assignor to Sealright Co., Inc., Fulton, N. Y. Insulating container and the like. No. 1,421,649; July 4.
- Wright, Wilbur L., assignor to Sealright Co., Inc., Fulton, N. Y. Paper-material container and the like. No. 1,422,018; July 4.
- Wright, William C., and T. I. Dean, Buffalo, N. Y. Music-roll cabinet. No. 1,414,317; Apr. 25.
- Wright, William H., assignor to Wright-Hibbard Industrial Electric Truck Co., Inc., Buffalo, N. Y. Electrical industrial truck. No. 1,404,419; Jan. 24.
- Wright, William R., et al. (See Hart, Albert J., assignor.)
- Wright, William S., Newark, Ohio. Casing for transmission gears. No. 1,430,346; Sept. 26.
- Wright, William W., Hollywood, Calif. Map holder. No. 1,421,883; July 4.
- Wright, William W., Cleveland, Ohio. Internal-combustion-engine valve-spring compressor. No. 1,435,779; Nov. 14.
- Wright, Willis M., assignor to The National Pipe Bending Company, New Haven, Conn. Heating-element support for water heaters. No. 1,435,364; Nov. 14.
- Wrightson, George, et al. (See Ceserani, John, assignor.)
- Wrigley, Clarence G., Lima, Ohio. Rain-water cut-off. No. 1,410,441; Mar. 21.
- Wrisenberg, Julius H. A., Bremen, Germany. Reenforcement for concrete structures. No. 1,405,654; Feb. 7.
- Wrocinski, Wallace E., Chicago, Ill. Curtain hanger. No. 1,439,783; Dec. 26.
- Wroughton, Ernest G., Nelson, Nebr. Attachment for tractors. No. 1,420,174; June 20.
- Wrozina, Ignatius, Bridgeport, Conn. Resilient wheel tire. No. 1,439,784; Dec. 26.
- Wrye, John A., Argyle, N. Y. Baby swing. No. 1,414,318; Apr. 25.
- Wubbolding, Leo F. (See Freyberg, J., and Wubbolding.)
- Wucherer, Rudolf, and F. Pollitzer, Munich, Germany, assignors, by mesne assignments, to The Linde Air Products Company, New York, N. Y. Recovering constituents of air or other gaseous mixtures. No. 1,420,802; June 27.
- Wuchterl, Anthony. (See Ferge, H., and Wuchterl.)
- Wuerthele, William, Pittsburgh, Pa. Noise subduer and protector for billiard-cue butts. No. 1,433,588; Oct. 31.
- Wujek, Martin J., assignor to Hard Mfg. Co., Buffalo, N. Y. Shoe for the legs of metal cots and other articles. No. 1,420,602; June 20.
- Wulff, Ezra H., Toledo, Ohio. Making tire rims. No. 1,437,628; Dec. 5.
- Wulff, Louis, Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. No. 1,426,940; Aug. 22.
- Wunder, Frank F., Valley Falls, Kans. Clutch holder. No. 1,434,760; Nov. 7.
- Wunderlick, Jay E., assignor of one-half to C. N. Hostetler, Waterloo, Iowa. Expansion joint. No. 1,417,126; May 23.
- Wunsch, Joseph W., Brooklyn, N. Y. Pile-cutting machine. No. 1,413,310; Apr. 18.
- Würgler, Jakob. (See Mayer, B., Moser, and Würgler.)
- Wurl, Wilhelm, Weissensee, Berlin, Germany. Drying apparatus. No. 1,411,199; Mar. 28.
- Wutke, Frank C., Chicago, Ill. Wrench. No. 1,407,110; Feb. 21.
- Wyant, Ira A. (See Campbell, Donald J., assignor.)
- Wyant, Lynton D., et al. (See Webb, Robert T., assignor.)
- Wyatt, Chester A., Union City, Tenn. Oil-stove oven. No. 1,410,982; Mar. 28.
- Wyatt, George T., Olmstead, Ky. Furnace. No. 1,440,327; Dec. 26.
- Wyatt, James R., assignor to The Ajax Metal Company, Philadelphia, Pa. Tilting mechanism for containers, such as furnaces. No. 1,430,714; Oct. 3.
- Wyatt, James R., Camden, N. J., assignor to The Ajax Metal Company, Philadelphia, Pa. Tilting mechanism for furnaces and the like. No. 1,432,007; Oct. 17.
- Wyatt, John W., Los Angeles, Calif. One-click bread cutter and cake cutter. No. 1,424,389; Aug. 1.
- Wyatt, Kirke K., assignor of two-thirds to T. S. Noyes, Chicago, Ill. Air washer. No. 1,411,950; Apr. 4.
- Wyatt, Noel W., et al. (See Scribner, E. W., and Depee, assignors.)
- Wyatt, William E., Toronto, Ontario, Canada. Soldering flux. No. 1,435,780; Nov. 14.
- Wybert, Ernst. (See Gams, A., and Wybert.)
- Wyble, Stanislaus, assignor of one-fourth to J. J. McGee, Eunice, La. Valve coupling for liquid-distributing systems. No. 1,433,494; Oct. 24.
- Wyckoff, Andrew D., Oak Park, Ill. Weather-protected oil-dispensing apparatus. No. 1,428,737; Sept. 12.
- Wyckoff, Andrew D., Maywood, and H. P. de Correvont, Chicago, assignors to Oil Products Appliance Co., Maywood, Ill. Drip-pan assembly. No. 1,431,768; Oct. 10.
- Wyckoff, Clyde E., assignor of one-half to J. Q. Moffat and one-half to G. E. Whitten, Kansas City, Mo. Level. No. 1,424,229; Aug. 1.
- Wyckoff, David B. (See Wyckoff, Joseph E., assignor.)
- Wyckoff, J. Lewis, et al, trustees. (See Eidmann, Frank L.)
- Wyckoff, Joseph E., Los Angeles, assignor of one-half to D. B. Wyckoff, Glendale, Calif. Life-saving fender. No. 1,421,650; July 4.
- Wyckoff, Richard D., New York, N. Y. Projector combined with printing mechanism of tickers or other instruments. No. 1,424,228; Aug. 1.
- Wyckoff, William L., Brooklyn, N. Y. Calculating rule. No. 1,423,896; July 25.
- Wyckoff, William L., Detroit, Mich. Calculator. No. 1,439,936; Dec. 26.
- Wyckoff & Lloyd Company. (See Lloyd, Thomas H., assignor.)
- Wygodsky, Leon, Baltimore, Md. Antifreezing plug. No. 1,409,634; Mar. 14.
- Wygodsky, Leon, assignor to Baltimore Oil Engine Company, Baltimore, Md. Combined air pump and starter motor mechanism for internal-combustion engines. No. 1,406,319; Feb. 14.
- Wylam, Edward G., Taylor, Pa. Demountable rim for vehicle wheels. No. 1,427,670; Aug. 29.
- Wylde, Edward, New York, and T. Brady, Yonkers, N. Y. Lubricating device. No. 1,411,654; Apr. 4.
- Wylie, Hamilton N., Edinburgh, Scotland, assignor to Armstrong Siddeley Motors Limited, Parkside, Coventry, England. Metal spar for aircraft. No. 1,407,242; Feb. 21.
- Wylie, Harry, St. Louis, Mo. Collapsible fort. No. 1,437,699; Dec. 5.
- Wylie, John H., et al. (See Marion, Frank, assignor.)
- Wylie, Wellington B., et al. (See Jungerheld, Frederick F., assignor.)
- Wyman, Charles O., Anoka, Minn. Running gear. No. 1,425,734; Aug. 15.
- Wyman, Charles W. (See Holdsworth, F. D., and Wyman.)
- Wyman, Charles W., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. No. 1,407,120; Feb. 21.

- Wyman, Charles W., Claremont, N. H., assignor to Sullivan Machinery Company. Percussion tool. No. 1,440,201; Dec. 26.
- Wyman-Gordon Company. (See Ingalls, Frederick A., assignor.)
- Wyman-Gordon Company. (See Larcher, Albert J., assignor.)
- Wyman, Harold, Plantsville, Conn. Shim. No. 1,404,825; Jan. 31.
- Wynkoop, Richard J., Bridgeport, Conn. Photographic-printing machine. No. 1,403,884; Jan. 17.
- Wynn, Charles L., et al. (See Crouch, Thomas C., assignor.)
- Wynn, Thomas H., Cleveland, Ohio. Automatic feeding device for tack machines. No. 1,431,277; Oct. 10.
- Wynne, George E., assignor of twenty per cent to W. B. Lindsay and twenty per cent to W. L. Lenoir, Lenoir, N. C. Vehicle spring and clip therefor. No. 1,427,144; Aug. 29.
- Wynne, Mary, administrator. (See Wynne, Valentine C.)
- Wynne, Valentine C., deceased, Albany, N. Y. M. Wynne, administratrix. Electromagnetic contact device. No. 1,429,009; Sept. 12.
- Wyrick, Clayton E., Detroit, Mich. Autographic register. No. 1,413,647; Apr. 25.
- Wyse, James E., Great Crosby, England. Lifeboat. No. 1,435,040; Nov. 7.
- Wyskawko, Gregory, Chicago, Ill. Trap. No. 1,407,909; Feb. 25.
- Wysock, John, Plymouth, Pa., assignor of one-third to A. Visotski, Wilkes-Barre, Pa. Fastener for mine-car doors. No. 1,409,635; Mar. 14.
- Wysong, Bennett C., assignor of one-third to C. V. Ratcliff and one-third to J. B. Carter, Huntington, W. Va. Process of and device for removing rivet heads. No. 1,436,557; Nov. 21.
- Wyss, Léon, La Chaux-de-Fonds, Switzerland. Clock and watch. No. 1,411,050; Mar. 21.
- Xelaras, Demos. (See Zontos, Peter S., assignor.)
- Yaeger, Carl, assignor to A. Laitner & Sons, Detroit, Mich. Brush-making machine. No. 1,424,545; Aug. 1.
- Yager, Harvey J., Seattle, Wash. Folding bed. No. 1,436,558; Nov. 21.
- Yager, John C., Alexandria, Minn. Resilient tire. No. 1,432,094; Oct. 17.
- Yai, Sakizo, Tokyo, Japan. Dry battery. No. 1,431,859; Oct. 10.
- Yale, Rodney H., assignor to Yale and Hopewell Company, Lincoln, Nebr. Lubricator. No. 1,406,320; Feb. 14.
- Yale, Rodney H., P. W. Hutchins, and K. Merting, assignors to Yale and Hopewell Company, Lincoln, Nebr. Windmill. No. 1,421,337; June 27.
- Yale and Hopewell Company. (See Yale, R. H., Hutchins, and Merting, assignors.)
- Yale and Hopewell Company. (See Yale, Rodney H., assignor.)
- Yale & Towne Manufacturing Company, The. (See Augenbraun, Peter F., assignor.)
- Yale & Towne Manufacturing Company, The. (See Barker, Frank C., assignor.)
- Yale & Towne Manufacturing Company, The. (See Berry, Charles A., assignor.)
- Yale & Towne Manufacturing Company, The. (See Butler, Harry R., assignor.)
- Yale & Towne Manufacturing Company, The. (See Freysinger, John B., assignor.)
- Yale & Towne Manufacturing Company, The. (See Lewis, Rollin C., assignor.)
- Yale & Towne Manufacturing Company, The. (See Maxwell, Maxwell C., assignor.)
- Yale & Towne Manufacturing Company, The. (See Mosely, William F., assignor.)
- Yale & Towne Manufacturing Company, The. (See Rector, Enoch, assignor.)
- Yale & Towne Manufacturing Company, The. (See Schoell, Reinhold, assignor.)
- Yale & Towne Manufacturing Company, The. (See Schroeder, Charles S., assignor.)
- Yale & Towne Manufacturing Company, The. (See Thompson, Frank B., assignor.)
- Yamamoto, Ninosuke, Tokyo, Japan. Looping machine. No. 1,402,390; Jan. 3.
- Yamamoto, Rekusaburo, Osaka, Japan. Magnesia plaster having powdered peanut shells as a constituent. No. 1,436,747; Nov. 28.
- Yamamoto, Tometaro, Hilo, Hawaii. Bicycle gearing. No. 1,411,548; Apr. 4.
- Yamamoto, Yoshitaro, Kobe, assignor of one-fourth to I. Mizusawa, Hyogo Ken, and one-fourth to T. Kano, Kobe, Japan. Preparing odorless and colorless oil and flour from bean. No. 1,432,168; Oct. 24.
- Yamanouchi, Genkichi, Ibaragi-gun, Tokyo, Japan. Gramophone. No. 1,407,111; Feb. 21.
- Yamanouchi, Genkichi, Ebaragun, Tokyo, Japan. Fireproof stone. No. 1,409,329; Mar. 14.
- Yamasaki, Tsunejiro, San Francisco, Calif. Animal trap. No. 1,425,355; Aug. 8.
- Yanai, Teizo, assignor to Nihon Denki Kogijo Kabushiki Kaisha, Tokyo, Japan. Copper conductor for electric-lamp bulbs and other vacuum tubes. No. 1,417,287; May 23.
- Yancey, Arthur, New Orleans, La. Device for operating hand seines. No. 1,413,552; Apr. 18.
- Yancey, Arthur, New Orleans, La. Apparatus for making and setting one-piece can liners. No. 1,436,748; Nov. 28.
- Yaniglos, John M., Northampton, Pa. Storm boot. No. 1,440,328; Dec. 26.
- Yano, Junji, Los Angeles, Calif. Alarm for strong boxes. No. 1,427,507; Aug. 29.
- Yanochowski, George A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,405,175; Jan. 31.
- Yanochowski, George A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Connector switch. No. 1,423,897; July 25.
- Yanochowski, George A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Automatic telephone system. No. 1,423,898; July 25.
- Yanochowski, George A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Automatic telephone system. No. 1,423,899; July 25.
- Yantz, Franc A., Burlington, Vt. Potato digger. No. 1,427,145; Aug. 29.
- Yarmolaitis, William C., Cleveland, Ohio. Lifting jack. No. 1,424,390; Aug. 1.
- Yarnall, David R., assignor to Yarnall-Waring Company, Philadelphia, Pa. Blow-off valve. No. 1,439,720; Dec. 26.
- Yarnall-Waring Company. (See Yarnall, David R., assignor.)
- Yarrington, Benson A., assignor to Grand Rapids Manufacturing Company, Grand Rapids, Mich. Liquid-measuring apparatus. No. 1,408,557; Mar. 7.
- Yarrow, Harold E., Glasgow, Scotland. Operating furnaces. No. 1,427,046; Aug. 22.
- Yates, Luther L., San Francisco, Calif. Refrigerator car. No. 1,439,214; Dec. 19.
- Yates Machine Company. (See Yates, Thomas J., assignor.)
- Yates, P. B., Machine Company. (See Lane, F. L., and Weaver, assignors.)
- Yates, P. B., Machine Company. (See Lane, Franklin L., assignor.)
- Yates, P. B., Machine Company. (See Mitchell, Harrison J., assignor.)
- Yates, P. B., Machine Company. (See Zluticky, Joseph, assignor.)
- Yates, Thomas J., assignor to Yates Machine Company, Salem, Mass. Padding element for ironing machines. No. 1,432,940; Oct. 24.
- Yavitz, Saul. (See Cerveney, Emil F., assignor.)
- Yaw, Clio B., Arlington, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,413,648; Apr. 25.
- Yeager, Mary G., St. Louis, Mo. Electric curler. No. 1,424,546; Aug. 1.
- Yeagher, William A., jr., assignor of one-third to F. Mulvey and one-third to T. H. Howley, New Brunswick, N. J. Grease gun. No. 1,424,547; Aug. 1.
- Yeakley, Melvin A., Canton, Ohio. Lubrication for engine valves. No. 1,414,244; Apr. 25.
- Yeansley, Eugene W., Brooklyn, N. Y., assignor to The S. S. White Dental Manufacturing Company. Valve. No. 1,409,270; Mar. 14.
- Yearwood, Byrd O. (See Jackson, R. E., and Yearwood.)
- Yeatts, William, Java, assignor to Rotary Motor Company, Danville, Va. Rotary combustion engine. No. 1,430,929; Oct. 3.
- Yeckel, James F., deceased, Lawrence, Pa.; W. B. Yeckel, administratrix. Track brake for mine cars. No. 1,428,069; Sept. 5.
- Yeckel, Wilma E., administratrix. (See Yeckel, James F.)
- Yee, Jew Y. (See Guernsey, E. W., and Yee.)
- Yehle, Charles A., Syracuse, N. Y. Grinding block. No. 1,405,474; Feb. 7.
- Yehling, William W., Butte, Mont. Spike. No. 1,424,058; July 25.
- Yeiser, Leon B., Cleveland, Ohio. Waste and overflow attachment for bathtubs. No. 1,427,567; Aug. 29.
- Yeldham, Harmon J., Chicago, Ill. Ventilator. No. 1,406,321; Feb. 14.
- Yelm, Charles W., assignor of one-half to M. G. Kirkpatrick, Denver, Colo. Spreader for road construction. No. 1,417,709; May 30.
- Yeomans, Frank P., Oakland, Calif. Noiseless railway crossing. No. 1,407,778; Feb. 28.
- Yeomans, Lucien L., Chicago, assignor to Mann Corporation, Kankakee, Ill. Measuring and discharging apparatus. No. 1,425,735; Aug. 15.
- Yeomans, William H. (See Applegate, E. B., and Yeomans.)
- Yerger, William C., West Philadelphia, Pa. Golf-stick handle. No. 1,419,795; June 13.
- Yerkes, Nathaniel L., Brooklyn, N. Y. Belt. No. 1,437,330; Nov. 28.
- Yewell, James M. (See Harlow, Harry, assignor.)
- Yoakam, David, Liberty Township, Warren County, Iowa. Spring wheel. No. 1,428,575; Sept. 12.
- Yeast, James S., Cincinnati, Ohio. Electrical heating unit. No. 1,440,202; Dec. 26.
- Yocom, Alvin M., Pottstown, Pa. Implement for motorists. No. 1,437,211; Nov. 28.
- Yocom, William D., Wetumka, Okla. Device for joining rails. No. 1,405,886; Feb. 7.
- Yocom, William D., Wetumka, Okla. Nut lock. No. 1,407,779; Feb. 28.

Alphabetical list of patentees--Continued.

- Yoder, David A. (See Eberly, Sylvester, assignor.)
Yoder, Harley I. (See Whewell, J. E., and Yoder.)
Yoder, Joseph D., assignor to H. S. B. W.-Cochrane Corporation, Philadelphia, Pa. Water-softening apparatus. No. 1,425,621; Aug. 15.
Yoder, Joseph D., assignor to H. S. B. W.-Cochrane Corporation, Philadelphia, Pa. Water-treating process and apparatus. No. 1,402,727; Jan. 3.
Yoder-Thomas Manufacturing Company, The. (See Thomas, Miley W., assignor.)
Yohans, Paul, New York, N. Y. Pattern-transfer machine. No. 1,421,884; July 4.
York, Albert, Garfield, Kans. Tractor coupling. No. 1,427,709; Aug. 29.
York, Curt, Memphis, Tenn. Implement for making chain links. No. 1,432,651; Oct. 17.
York, Edgar L., assignor to Oasis Manufacturing Co., Peoria, Ill. Ironing machine. No. 1,403,582; Jan. 17.
York Milk Machinery Company. (See Birnstock, William W., assignor.)
York, Victor, Brea, assignor of one-half to W. G. Black, Whittier, Calif. Oil-well-drilling drive. (Reissue.) No. 15,330; Apr. 4.
York, Victor H., Wilson, Okla. Caster. No. 1,412,409; Apr. 11.
Yorks, Julius, Boston, Mass. Ball cock. No. 1,432,145; Oct. 17.
Yorkshire Dyeing & Chemical Company Limited. (See Craven, Alfred B., assignor.)
Yost, Robert E., York, Pa. Paper-registering device. No. 1,431,556; Oct. 10.
You, Wong, San Francisco, Calif. Carrier and retractor for wheel rims and tires. No. 1,419,531; June 13.
Youkey, Ernest P. (See Cazier, M. H., and Youkey.)
Young, Abraham, Montevideo, Minn. Air-brake pressure retainer. No. 1,421,651; July 4.
Young, Albert F., New York, N. Y. Pencil. No. 1,440,045; Dec. 26.
Young, Alfred, Jamestown, N. Y. Wrench. No. 1,404,079; Jan. 17.
Young, Amos P. and C. R., Leesburg, Ind. Pot cover. No. 1,414,540; May 2.
Young, Arthur L., assignor to Young Brothers, Providence, R. I. Display box. No. 1,431,133; Oct. 3.
Young, Arthur P., Kenilworth, England. Magneto-electric machine. No. 1,427,671; Aug. 29.
Young, Arthur P., Kenilworth, England, assignor to General Electric Company. Electrical contact making and breaking device. No. 1,434,761; Nov. 7.
Young, Benjamin L., St. Joseph, Mo. Safety shutter for moving-picture apparatus. No. 1,406,802; Feb. 14.
Young Brothers. (See Young, Arthur L., assignor.)
Young Brothers. (See Young, Lewis D., assignor.)
Young, Cecil G., U. S. Army. Supersensitive fuse. No. 1,420,300; June 20.
Young, Charles, Indianapolis, Ind. Guard for woodworking machines. No. 1,426,625; Aug. 22.
Young, Charles D., Wilmington, Del. Feed-water heater. No. 1,433,589; Oct. 31.
Young, Charles E. (See Starcher, I. D., and Young.)
Young, Charles E., Shenandoah, Iowa. Glove or mitten. No. 1,426,029; Aug. 15.
Young, Charles R., Bloomfield, and H. N. Van Deusen, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Terminal box for electric cables. No. 1,422,910; July 18.
Young, Charles W., Syracuse, N. Y. Knockdown crate. No. 1,428,070; Sept. 5.
Young, Clarence H. (See Warnock, Amos W., assignor.)
Young, Clarence H., Boston, Mass. Brick pallet. No. 1,414,061; Apr. 25.
Young, Clarence R. (See Young, Amos P. and C. R.)
Young, Clifford H., St. Louis, Mo. Driving mechanism for vehicles. No. 1,430,139; Sept. 26.
Young, Emil W. (See Jungk, Ernst V., assignor.)
Young, Ernest L., Olathe, Colo. Piston action for gas engines. No. 1,431,617; Oct. 10.
Young, Frederick D., Hollidaysburg, Pa. Horseshoe. No. 1,416,541; May 16.
Young, George A., New York, N. Y., assignor to Louis J. Schuchl, Union Hill, N. J. Wrench. No. 1,410,856; Mar. 28.
Young, Harold E., Minneapolis, Minn. Apparatus for washing automobiles. No. 1,412,732; Apr. 11.
Young, Hiram J., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Lock. No. 1,407,312; Feb. 21.
Young, Howard A., Chicago, Ill. Vacuum-producing and boiler-feeding apparatus. No. 1,438,008; Dec. 5.
Young, Jacob, Hennessey, Okla. Tractor. No. 1,407,243; Feb. 21.
Young, James H., assignor to H. H. Robertson Company, Pittsburgh, Pa. Paint. No. 1,410,790; Mar. 28.
Young, James H., assignor to H. H. Robertson Company, Pittsburgh, Pa. Protected metal article. No. 1,418,347; June 6.
Young, James H., assignor to H. H. Robertson Company, Pittsburgh, Pa. Protected metal article. No. 1,418,348; June 6.
Young, James H., assignor to H. H. Robertson Company, Pittsburgh, Pa. Protected metal article. No. 1,418,349; June 6.
Young, James H., assignor to H. H. Robertson Co., Pittsburgh, Pa. Protected metal article. No. 1,421,338; June 27.
Young, James H., assignor to H. H. Robertson Company, Pittsburgh, Pa. Making varnish. No. 1,432,511; Oct. 17.
Young, James H., assignor to H. H. Robertson Company, Pittsburgh, Pa. Protected metal article. No. 1,432,512; Oct. 17.
Young, Jesse L., Brookfield, Mo. Tack indicator. No. 1,437,375; Nov. 28.
Young, John, Welland, Ontario, Canada. Electrode holder for electric furnaces. No. 1,432,823; Oct. 24.
Young, L. A., Industries, Inc. (See Holtfoth, Joachim T., assignor.)
Young, L. A., Industries, Inc. (See Reidenbach, Herman O., assignor.)
Young, L. A., Industries, Inc. (See Van Orman, Bert L., assignor.)
Young, Leo C. (See Taylor, A. H., and Young.)
Young, Leonard A., Detroit, Mich. Hood for automobiles. No. 1,411,985; Apr. 4.
Young, Leonard I., Fredonia, N. Y. Foot support for engaging ladder rungs. No. 1,437,376; Nov. 28.
Young, Lewis D., assignor to Young Brothers, Providence, R. I. Box fastener. No. 1,431,134; Oct. 3.
Young, Luther A., University, Mo. Dental tool. No. 1,405,249; Jan. 31.
Young, Monte, Provo, Utah. Spark plug. No. 1,403,886; Jan. 17.
Young, Percy H., Dorchester, assignor to S. A. Woods Machine Company, Boston, Mass. Woodworking machine. No. 1,407,112; Feb. 21.
Young, Reginald C. (See Gallagher, R. B., and Young.)
Young, Walter C., Brooklyn, N. Y. Milk-box. No. 1,416,542; May 16.
Young, William A., Gasket Corporation. (See Lurcott, Winfred N., assignor.)
Young, William B., Chicago, Ill. Wood-carving machine. No. 1,439,215; Dec. 19.
Young, William E., Baltimore, Md., assignor to William A. Tottle & Co., Inc. Ferrule-shaping machine. No. 1,435,679; Nov. 14.
Young, William J., assignor to Young's Wrought Iron Works, Rochester, N. Y. Metal-twisting mechanism. No. 1,415,502; May 9.
Young, William J., Loughborough, England. Motor road vehicle. No. 1,404,506; Jan. 24.
Youngken, Ben N., Los Angeles, Calif. Casing elevator. No. 1,424,548; Aug. 1.
Youngman, Maximilian R., San Diego, Calif. Muting device for tuning pianos. No. 1,428,738; Sept. 12.
Youngquist, Henry W., Manchester, N. H. Brake mechanism for talking machines. No. 1,437,700; Dec. 5.
Youngquist, Henry W., Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass. Automatic filling-replenishing loom. No. 1,420,901; June 27.
Youngquist, Henry W., Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass. Picker stick check for looms. No. 1,428,739; Sept. 12.
Youngquist, Henry W., Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass. Shuttle-clearing means for filling-replenishing looms. No. 1,431,557; Oct. 10.
Youngquist, John, Chicago, Ill. Phonograph. No. 1,421,652; July 4.
Youngren, Harry L., Galesburg, Ill. Clothesline reel. No. 1,404,913; Jan. 31.
Youngren, Oscar A., New York, N. Y. Crutch, etc., tip. No. 1,438,883; Dec. 12.
Youngs, George B., New York, N. Y. Brake. No. 1,424,059; July 25.
Youngs, George W., Greenwood, Wis. Transmission gearing. No. 1,433,866; Oct. 31.
Young's Wrought Iron Works. (See Young, William J., assignor.)
Youngstown Pressed Steel Company, The. (See Dickinson, Clarence W., assignor.)
Youngstown Steel Company, The. (See Ford, Edward L., assignor.)
Youngstown Steel Company, The. (See Phillips, Thomas M., assignor.)
Youngstown Sheet & Tube Company, The. (See Jupp, A. E., and Crooks, assignors.)
Youngs, John R., Howick, Quebec, Canada. Signaling system for railways. No. 1,431,351; Oct. 10.
Yoxall, William. (See Rousseau, S., and Yoxall.)
Yozits, Steve R., and W. G. Zabel, Oshkosh, Wis. Beet blocking and thinning machine. No. 1,440,120; Dec. 26.
Zrurera, Victor, Buenos Aires, Argentina. Apparatus for admitting additional heated air into internal-combustion engines. No. 1,417,127; May 23.
Zseboodt, Gustave, Brussels, and R. H. Mautsch, Cortenberg, Belgium. Block signaling arrangement and the like. No. 1,433,330; Oct. 24.
Zuasa, Shinkichi, Cupertino, Calif. Disk plow and the like. No. 1,417,221; May 23.
Zunck, John A., San Francisco, N. J. Alloy of refractory metals and forming same. No. 1,422,019; July 4.
Zungkruger, Gustav A., Lancaster, Pa. Lock nut. No. 1,431,076; Oct. 3.
Zurka, Blanche, New York, N. Y. Brassière. No. 1,431,206; Oct. 10.

- Yurov, Andrew, New York, N. Y. Lock. No. 1,415,503; May 9.
- Zabaratz, Dragutin, Belgrade, Servia. Dropping scenes. No. 1,404,919; Jan. 31.
- Zabel, August F., and R. V. Townsend, Minnesota Lake, Minn. Potato picker. No. 1,424,868; Aug. 8.
- Zabel, William, assignor to The Union Switch & Signal Company, Swissvale, Pa. Circuit controller. No. 1,413,820; Apr. 25.
- Zabel, William G. (See Yozits, S. R., and Zabel.)
- Zabel, William P., and L. E. Reakes, Cleveland, Ohio, assignors to General Electric Company. Wire-cleaning method and apparatus. No. 1,403,727; Jan. 17.
- Zabriskie, Charles C., Highland Park, Mich. Car wheel. No. 1,421,653; July 4.
- Zabriskie, Henry L., Westfield, assignor to Diehl Manufacturing Co., Elizabeth, N. J. Centrifugal switch. No. 1,403,220; Jan. 10.
- Zabriskie, Henry L., Westfield, assignor to Diehl Manufacturing Company, Elizabeth, N. J. Rheostat. No. 1,437,629; Dec. 5.
- Zahler, Joseph, Hudson, Wis. Automobile tire and rim lock. No. 1,419,796; June 13.
- Zahn, Albert F., Washington, D. C. Propeller thrust and torque measure. No. 1,405,176; Jan. 31.
- Zahn, Albert F., Washington, D. C. System for testing propellers. No. 1,405,177; Jan. 31.
- Zahn, Albert F., Washington, D. C. Speed meter for aeroplanes. No. 1,426,698; Aug. 22.
- Zahn, Albert F., Washington, D. C., assignor to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Wind tunnel balance. No. 1,404,920; Jan. 31.
- Zahn, Albert F., Buffalo, N. Y., assignor to Curtiss Aeroplane & Motor Corporation. Propeller-hub construction. No. 1,406,600; Feb. 14.
- Zahn, Edward, Buffalo, N. Y. Apparatus for filtering gas containing beverages. No. 1,439,721; Dec. 26.
- Zahn, Edward, assignor to Zahn & Nagel Co., Inc., Buffalo, N. Y. Process and apparatus for concentrating liquids. No. 1,405,085; Jan. 31.
- Zahn & Nagel Co. (See Zahn, Edward, assignor.)
- Zahn, Oswald F., assignor to Zahn Self Righting Roller Bearing Company, Los Angeles, Calif. Roller bearing. No. 1,422,162; July 11.
- Zahn, Robert, deceased, by A. Rietzsch, administrator, Plauten, Vogtland, Germany, assignor to Alien Property Custodian. Boring embroidery fabric. No. 1,403,221; Jan. 10.
- Zahn Self Righting Roller Bearing Company. (See Zahn, Oswald F., assignor.)
- Zahuradfabrik Aktiengesellschaft. (See von Soden-Fraunhofen, Graf Alfred, assignor.)
- Zahorsky, George, Detroit, Mich. Toy crane. No. 1,404,254; Jan. 24.
- Zalaiskis, Anthony, Cleveland, Ohio. Tree-felling saw. No. 1,414,319; Apr. 25.
- Zaiden, David, East Orange, N. J. Mechanical geisha doll. No. 1,411,825; Apr. 4.
- Zaiden, David, East Orange, N. J. Hula doll. No. 1,423,383; July 18.
- Zaiden, David, East Orange, N. J. Walking doll. No. 1,423,382; July 18.
- Zajac, Michael. (See Gazdzicki, Joseph, assignor.)
- Zak, John, Bergholz, Ohio. Sash-locking device. No. 1,422,020; July 4.
- Zakim, David, assignor to Sterling Metal Novelty Mfg Co., Inc., New York, N. Y. Lead pencil. No. 1,426,438; Aug. 22.
- Zakim, David, assignor to Sterling Metal Novelty Mfg Co., Inc., New York, N. Y. Lead pencil. No. 1,431,510; Oct. 10.
- Zakrzewski, Henry, Chicago, Ill., assignor of one-third to A. Krawczynski and one-third to J. A. Kisiel. Automatic railway gate. No. 1,409,636; Mar. 14.
- Zakrzewski, Rudolph, Thorpe, W. Va. Newspaper holder. No. 1,432,652; Oct. 17.
- Zakrzewski, Rudolph and K. Sulek, Thorpe, W. Va. Fire alarm box. No. 1,429,668; Sept. 19.
- Zalewski, Ignacy F., Ansonia, Conn. Liquid-fuel-burning apparatus. No. 1,406,520; Feb. 14.
- Zalkind, Philip, New York, N. Y. Glue roll. No. 1,421,654; July 4.
- Zalkind, Philip, New York, N. Y. Container. No. 1,426,439; Aug. 22.
- Zalowitz, Joseph, New York, N. Y. Gem setting. No. 1,421,339; June 27.
- Zambrini, Fausto. (See Toborek, P., and Zambrini.)
- Zamolynski, Paul, West Fort William, Ontario, Canada. Direction signal for motor vehicles. No. 1,429,994; Sept. 26.
- Zander, John, Chicago, Ill. Gas furnace. No. 1,406,713; Feb. 14.
- Zander, John, Chicago, Ill. Refrigerating apparatus. No. 1,415,504; May 9.
- Zannetti, Emanuel, Gloversville, N. Y. Brake-actuating device. No. 1,427,047; Aug. 22.
- Zanon, Remo C., assignor of one-half to J. J. Ferlin, Modesto, Calif. Piston clamp. No. 1,432,008; Oct. 17.
- Zaparka, Eduard, Vienna, Austria. Steering arrangement for motor vehicles. No. 1,439,463; Dec. 19.
- Zardionni, Faust, assignor of one-half to V. Lo Monaco, Chicago, Ill. Dumping truck. No. 1,429,820; Sept. 19.
- Zasada, Stanley J., Erie, Pa. Pressure gauge. No. 1,436,224; Nov. 21.
- Zaugg, Rudolf, Berne, Switzerland, assignor of one-half to G. L. Bossard, Troy, N. Y. Switch-controlling mechanism. No. 1,413,559; Apr. 18.
- Zaun, George F., San Bernardino, Calif. Sectional floor rack. No. 1,405,655; Feb. 7.
- Zautner, Albert R., Cleveland, Ohio. Retail-box container. No. 1,414,682; May 2.
- Zavatky, Frederick F., Winsted, Conn. Ice cutter. No. 1,412,500; Apr. 11.
- Zawistowski, Martin, Brooklyn, N. Y. Lock. No. 1,417,963; May 30.
- Zawisza, Walenty F., Nanticoke, Pa. Rail joint. No. 1,438,079; Dec. 5.
- Zawodny, Joseph, Henryetta, Okla. Derailer. No. 1,420,357; June 20.
- Zebich, Mike, Woodlawn, assignor of one-half to L. Fratrach, East Pittsburgh, Pa. Pneumatic locking mechanism. No. 1,409,210; Mar. 14.
- Zecchini, Alfredo, Turin, Italy. Electric lighter. No. 1,437,701; Dec. 5.
- Zeedyk, William, assignor to Benjamin Eastwood Company, Paterson, N. J. Loom. No. 1,428,409; Sept. 5.
- Zeedyk, William, assignor to Benjamin Eastwood Company, Paterson, N. J. Loom. No. 1,428,410; Sept. 5.
- Zega, Anthony F., Bloomfield, N. J. Cover support. No. 1,434,762; Nov. 7.
- Zehnbauer, Charles, Jersey City, N. J. Bottle closure. No. 1,427,672; Aug. 29.
- Zehnder, William, Pittsburgh, Pa. Floor-scrubbing machine. No. 1,408,331; Feb. 28.
- Zei, Fred W., and F. G. Gross, assignors to M. Koch and C. Schneider, Chicago, Ill. Luminous log. No. 1,432,942; Oct. 24.
- Zeidler, William A., New York, N. Y. Machine for coiling metal spirals. No. 1,408,676; Mar. 7.
- Zeier, George W., Ethan, S. Dak. Husker. No. 1,424,060; July 25.
- Zeis, Frank, Trenton, N. J. Derailing guard. No. 1,422,021; July 4.
- Zeiss, Carl. (See Henker, Otto, assignor.)
- Zeiss, Carl. (See Meyer, Franz, assignor.)
- Zeiss, Carl. (See Nichterlein, Paul, assignor.)
- Zeiss, Firm of Carl. (See Becker, Paul, assignor.)
- Zeiss, Firm of Carl. (See Eppenstein, Otto, assignor.)
- Zeiss, Firm of Carl. (See Henkers, Otto, assignor.)
- Zeiss, Firm of Carl. (See Köhler, August, assignor.)
- Zeiss, Firm of Carl. (See Riedinger, Franz, assignor.)
- Zeiss, Firm of Carl. (See Sander, Willy, assignor.)
- Zeiss, Firm of Carl. (See Steidle, Adolf, assignor.)
- Zeiss, Firm of Carl. (See von Gruber, Otto, assignor.)
- Zeiss, Firm of Carl. (See von Orel, E., and Sander, assignors.)
- Zeitlin, Alexandre, assignor of one-fourth to J. Heller, one-fourth to J. Rifkin, and one-fourth to S. Heller, New York, N. Y. Fall-checking device for aircraft. No. 1,426,331; Aug. 15.
- Zeitlin, Joseph, London, England. Valve mechanism of internal-combustion engines. No. 1,402,701; Jan. 3.
- Zeitz, Ernest. (See Heindl, Stephen O., assignor.)
- Zelazo, Stanley, Adams, Mass. Christmas-tree stand. No. 1,421,340; June 27.
- Zelazo, Stanley J., Adams, Mass. Table lamp. No. 1,419,598; June 13.
- Zelinsky, John, Portsmouth, Va. Rail joint. No. 1,425,736; Aug. 15.
- Zeller, Isaiah N., Chicago, Ill. Picture frame, button, badge, and the like. No. 1,418,222; May 30.
- Zeller, Isaiah N., Chicago, Ill. Matrix-making machine. No. 1,423,290; July 18.
- Zeller, William C., Perth Amboy, N. J., assignor to E. G. Draper, New York, N. Y. Method of and apparatus for impregnating wood. No. 1,438,471; Dec. 12.
- Zellner, Alvin. (See Fletcher, Theophil J., assignor.)
- Zellstofffabrik Waldhof. (See Clemm, H., and Hangleiter, assignors.)
- Zemla, Frank, Hamtramck, Mich. Tire-inflating device. No. 1,438,284; Dec. 12.
- Zendt, Penrose H., and E. S. Garis, Souderton, Pa. Pocket. No. 1,409,809; Mar. 14.
- Zengen, Helmut H., New York, N. Y. Built-up monument. No. 1,434,182; Oct. 31.
- Zenith Carburetor Company, The. (See Heftler, Victor R., assignor.)
- Zenke, Henry C., Richmond Hill, assignor to Simplex Metal Feeder Company, Inc., New York, N. Y. Metal-feeding apparatus. No. 1,417,440; May 23.
- Zenker, Fredrick, Highland Park, and J. Schepperly, assignors to Square D. Company, Detroit, Mich. Meter-test apparatus. No. 1,409,637; Mar. 14.
- Zent, Wayne P., Troy, N. Y. Metal feeder for typographical machines. No. 1,416,770; May 23.
- Zepka, Ludwig R., Cleveland, Ohio. Motor-vehicle protector. No. 1,419,093; June 6.
- Zepka, Ludwig R., Cleveland, Ohio. Theft signal for motor vehicles. No. 1,422,404; July 11.
- Zepka, Ludwig R., Cleveland, Ohio. Theft signal for motor vehicles. No. 1,425,159; Aug. 8.
- Zeppugno, Rodolfo, assignor to Lancia & C., Turin, Italy. Vehicle spring. No. 1,404,677; Jan. 24.
- Zeppugno, Rodolfo, assignor to Lancia & C., Turin, Italy. Vehicle spring. No. 1,406,134; Feb. 7.
- Zeppelinwerke Lindau, Gesellschaft mit beschränkter Haftung. (See Dornier, Claudius, assignor.)

Alphabetical list of patentees—Continued.

- Zeppelin-Werke Staaken, Gesellschaft mit beschränkter Haftung. (See Baumeister, Hans, assignor.)
- Zerner, Ernst, Vienna, Austria. Oxidizing liquid hydrocarbons. No. 1,436,136; Nov. 21.
- Zertuche, José G., Mexico, Mexico. Nonslip device. No. 1,411,200; Mar. 28.
- Zerweck, Ernest, Oakland, Calif. Traveling sprinkler. No. 1,418,047; May 30.
- Zesbaugh, Lawrence G., assignor to Washburn-Crosby Company, Minneapolis, Minn. Sectional conveyers. No. 1,427,890; Sept. 5.
- Zesbaugh, Lawrence G., and H. Anderson, assignors to Washburn-Crosby Company, Minneapolis, Minn. Elevating apparatus. No. 1,432,513; Oct. 17.
- Zeschmar, Ernst, Chicago, Ill. Match box. No. 1,436,749; Nov. 28.
- Zetterman, Axel L., assignor of one-half to E. Nelson, New Britain, Conn. Chisel handle. No. 1,409,638; Mar. 14.
- Zeuthen, Otto L., Bagsvaerd, Denmark. Machine for digging potatoes. No. 1,429,010; Sept. 12.
- Ziech, Paul R., Merville Township, Woodbury County, Iowa. Tractor. No. 1,426,699; Aug. 22.
- Ziegenhagen, Herbert A., Lesueur Center, Minn. Plow lever. No. 1,439,048; Dec. 19.
- Ziegler, Alvin, Scranton, Pa. Vending machine. No. 1,433,444; Oct. 24.
- Ziegler, Charles E., Pittsburgh, Pa. Identification holder. No. 1,427,891; Sept. 5.
- Ziegler, Charles F., Los Angeles, Calif. Sole tracker. No. 1,421,655; July 4.
- Ziegler, George J. (See Burnett, Everett R., assignor.)
- Ziegler, George J., assignor of one-third to S. Gibbons, one-third to E. Stewart, and one-third to F. C. Beutel, Los Angeles, Calif. Tractor. No. 1,424,128; July 25.
- Ziegler, Leslie L., assignor to Nordyke & Marmon Company, Indianapolis, Ind. Feeder. No. 1,427,341; Aug. 29.
- Ziegler, Oscar J. (See Giesler, Franklin B., assignor.)
- Ziegler, William M., Richmond, Ind., assignor of one-half to J. T. Dietz, Dayton, Ohio. Universal joint. No. 1,407,617; Feb. 21.
- Ziegler, William M., Richmond, Ind., assignor to The Apex Machine Company, Dayton, Ohio. Tool holder. No. 1,433,590; Oct. 31.
- Zielinski, Joseph, East St. Louis, Ill. Combined table and chair. No. 1,417,655; May 30.
- Zielinski, Michael, Pittsburgh, Pa. Rail joint. No. 1,410,983; Mar. 28.
- Zielonko, Joseph K., Newark, N. J. Folding table. No. 1,424,610; Aug. 1.
- Zieman, Harry J., Milwaukee, Wis. Level. No. 1,435,365; Nov. 14.
- Ziemia, John, assignor of 40 per cent to F. H. Brown, Los Angeles, Calif. Egg beater. No. 1,410,522; Mar. 21.
- Ziemsens, Wilhelm, Brunswick, Germany. Baker's oven. No. 1,414,717; May 2.
- Zienger, Emanuel E., Chicago, Ill. Indicator lamp. No. 1,426,240; Aug. 15.
- Zieschang, Richard, assignor of one-half to W. E. Stratton, London, England. Mop and wringing attachment therefor. No. 1,426,440; Aug. 22.
- Ziesenis, Erwin, Burgdorf, Germany. Device for preventing the coverlet from dropping off the bed. No. 1,412,798; Apr. 11.
- Zilen, Victor W., assignor to Lucey Manufacturing Corporation, Chattanooga, Tenn. Crown-block cable guard. No. 1,423,550; July 25.
- Zilen, Victor W., Chattanooga, Tenn., assignor to Lucey Manufacturing Corporation, New York, N. Y. Rotary drive mechanism. No. 1,440,261; Dec. 26.
- Ziler, Corban H., assignor of one-half to Leggett & Platt Spring Bed Co., Limited, Windsor, Ontario, Canada. Producing clips and the like. No. 1,407,977; Feb. 28.
- Ziler, Corban H., assignor of one-half to Leggett & Platt Spring Bed Company, Limited, Windsor, Ontario, Canada. Machine for assembling frame and spring members. No. 1,422,326; July 11.
- Zilliox, John. (See Weston, A. H., and Zilliox.)
- Zilliox, John. (See Weston, A. H., and Zilliox, assignors.)
- Zillocki, Giordano, New York, N. Y., assignor of one-half to G. Scanlon, Jersey City, N. J. Spiral-spring-winding device. No. 1,413,150; Apr. 18.
- Zimbelmann, Peter, Aurora, Ill. Door check. No. 1,422,163; July 11.
- Zimmer, A. G., et al. (See Zimmer, George, assignor.)
- Zimmer, Albert E., assignor to Enterprise Railway Equipment Company, Chicago, Ill. Door-locking mechanism. No. 1,437,034; Nov. 28.
- Zimmer, George, Acampo, assignor of one-fourth to W. C. Whitmore and one-fourth to A. A. G. Zimmer, Oakland, Calif. Drawbar for tractors. No. 1,408,057; Feb. 28.
- Zimmer, Gustav H., assignor to Buffalo Forge Company, Buffalo, N. Y. Bending machine. No. 1,435,041; Nov. 7.
- Zimmerli, Charles, Rochester, N. Y. Self-righting desk sign. No. 1,420,603; June 20.
- Zimmerli, Charles, Rochester, N. Y. Stool. No. 1,437,630; Dec. 5.
- Zimmerman, Andrew J., Remington, Ind. Steel fencepost. No. 1,408,332; Feb. 28.
- Zimmerman, Charles H. (See Cooper, J. F., and Zimmerman.)
- Zimmerman, Emil C., assignor to Q & C Company, New York, N. Y. Guard-rail clamp. No. 1,418,120; May 30.
- Zimmerman, Frank R., assignor to Superior Iron Works Company, Superior, Wis. Boat crane. No. 1,428,809; Sept. 12.
- Zimmerman, George, et al, trustees. (See Inghram, Howard T., assignor.)
- Zimmerman, George O., Mason City, Ill. Holder for spark plugs. No. 1,429,669; Sept. 19.
- Zimmermann, Hans J., Chicago, Ill., assignor, by mesne assignments, to R. Stutzke Company. Evaporating liquids. No. 1,402,467; Jan. 3.
- Zimmerman, Henry J., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Valve gasket. No. 1,438,161; Dec. 5.
- Zimmerman, Henry L., Davenport, Iowa. Packing case. No. 1,433,169; Oct. 24.
- Zimmerman, Leon C., and C. F. Trick, Chicago, Ill. Table top. No. 1,434,420; Nov. 7.
- Zimmerman, Michael, Philadelphia, Pa. Bottle-retaining box. No. 1,428,350; Sept. 5.
- Zimmerman, Perry A. (See Hyde, O. H., and Zimmerman.)
- Zimmerman, Ralph W., assignor of one-third to E. C. Loomis and one-third to A. M. Saxe, Chicago, Ill. Inflating gauge. No. 1,436,000; Nov. 21.
- Zimmerman, Rufus E., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa. Brush holder for tinning machines. No. 1,431,913; Oct. 10.
- Zimmerman, Thomas, assignor to The Standard Parts Company, Cleveland, Ohio. Axle. No. 1,422,647; July 11.
- Zimmerman, Thomas, assignor to The Standard Parts Company, Cleveland, Ohio. Brake mechanism. No. 1,438,569; Dec. 12.
- Zimmerman, Thomas, assignor to The Standard Parts Company, Cleveland, Ohio. Axle. No. 1,438,570; Dec. 12.
- Zimmerman, Walter, Kansas City, Kans. Garment fastener. No. 1,423,590; July 25.
- Zimmerman, William G., Everett, Wash. Apparatus for the manufacture of wirebound box blanks. No. 1,426,941; Aug. 22.
- Zimmermann, Emil. (See Milse, Gustav, assignor.)
- Zimmermann, Friedrich. (See Heyn, H., and Zimmermann.)
- Zimmermann, Hans J., Chicago, Ill., assignor, by mesne assignments, to R. Stutzke Company. Spray desiccation apparatus. No. 1,426,030; Aug. 15.
- Zimmermann, William F., assignor to Gould & Eberhardt, Newark, N. J. Hob and making it. No. 1,430,485; Sept. 26.
- Zinger, William, Swan River, Manitoba, Canada. Automatic circuit closer. No. 1,412,501; Apr. 11.
- Zingre, Charles, Webster Groves, Mo. Lawn horseshoe. No. 1,424,869; Aug. 8.
- Zini, Joseph J., Chicago, Ill. Sediment-containing bottle cap. No. 1,426,241; Aug. 15.
- Zink, Arthur O., Rahway, N. J. Soap. No. 1,436,928; Nov. 28.
- Zink, Arthur O., Rahway, N. J. Soap. No. 1,436,929; Nov. 28.
- Zink, H. J., et al. (See Dungan, John E., assignor.)
- Zinke, Max. (See Hackman, William C., assignor.)
- Zinn, Hattie, Columbus, Ohio. Marcel-wave device. No. 1,424,230; Aug. 1.
- Zinn, Henry J., Kingston, Pa. Cutlery. No. 1,414,997; May 2.
- Zinn, Simon, Inc. (See Dahmen, Charles, assignor.)
- Zinnli, Michael A., Freeport, Minn. Wheelbarrow. No. 1,411,322; Apr. 4.
- Zint, Carl W., Fort Thomas, Ky. Automobile-identifying device. No. 1,402,702; Jan. 3.
- Zint, Frank W., Springfield, assignor to Montgomery Ward & Co., Inc., Chicago, Ill. Cultivator. No. 1,403,533; Jan. 17.
- Ziplinsky, Henry E., Lancaster, Pa. Receptacle. No. 1,440,046; Dec. 26.
- Zipoy, Frank, Minneapolis, Minn. Memorandum pad. No. 1,419,190; June 13.
- Zipp, Arthur J., Charlevoix, Mich. Hoisting apparatus for raising sunken logs and the like. No. 1,406,714; Feb. 14.
- Zirkuly, Frederick, Brooklyn, N. Y. Refrigerator. No. 1,435,439; Nov. 14.
- Zirwes, Nickalous C., Sheboygan, Wis. Folding chair. No. 1,424,704; Aug. 1.
- Ziska, Adam, Jr., Milwaukee, Wis., assignor to G. W. Ziska, Chicago, Ill. Lamp shade and making. No. 1,415,136; May 9.
- Ziska, George W. (See Ziska, Adam, Jr., assignor.)
- Zitting, Charles F., Idaho Falls, Idaho. Reversible garment. No. 1,430,715; Oct. 3.
- Zitzman, Edward J., New York, N. Y. Mop holder. No. 1,433,445; Oct. 24.
- Zluticky, Joseph, assignor to P. B. Yates Machine Company, Beloit, Wis. Saw guard. No. 1,402,915; Jan. 10.
- Znak, John J., Broughton, Pa. Rail joint. No. 1,414,450; May 2.
- Zocher, Carl T., Oakland, Calif. Attachment for meat-slicing machines. No. 1,427,710; Aug. 29.
- Zoechrome Limited. (See Mills, T. A., assignor.)
- Zoelly, Heinrich, and A. Garg, Zurich, Switzerland. Servo-motor-controlling mechanism. No. 1,423,786; July 25.

- Zoerman, John H., Chicago, Ill. Thread-cutting tool. No. 1,426,441; Aug. 22.
- Zohm, Richard, Rockford, Ill. Fly swatter. No. 1,425,622; Aug. 15.
- Zoia, Hector, Cleveland, Ohio. Service device. No. 1,425,432; Aug. 8.
- Zoldowski, John H., assignor of one-tenth to F. Chapp, Toledo, Ohio. Window lifter. No. 1,435,572; Nov. 14.
- Zoll, Fred, Birmingham, Ala. Core-making machine. No. 1,427,427; Aug. 29.
- Zollars, Sallie, et al. (See Thomas, Martin E., assignor.)
- Zollinger, Adalbert, Leipzig-Eutritzsch, assignor to Firm Popper & Co. Gesellschaft mit beschränkter Haftung, Leipzig, Germany. Regulating and controlling bellows for pneumatically-actuated musical instruments. No. 1,411,766; Apr. 4.
- Zöllner, Rudolf, Dresden, Germany. Connection terminal. No. 1,439,657; Dec. 19.
- Zongaro, Marco G., Portland, Oreg. Work support for grinding machines. No. 1,430,426; Sept. 26.
- Zontos, Peter S., assignor of one-half to D. Xelaras, St. Louis, Mo. Article holder for pockets. No. 1,424,970; Aug. 8.
- Zook, David T., Pasadena, Calif. Variable-pitch propeller. No. 1,415,756; May 9.
- Zook, Thomas L., Los Angeles, Calif. Spinal-vibrating apparatus. No. 1,425,433; Aug. 8.
- Zopf, Hans, Monroe, Mich. Plant marker. No. 1,407,507; Feb. 21.
- Zophy, Clement, West Allis, Wis. Cement-block machine. No. 1,408,558; Mar. 7.
- Zoppelt, John. (See Zoppelt, Samuel and J.)
- Zoppelt, Samuel and J., Monaca, Pa. Wire-coil conveyer. No. 1,417,288; May 23.
- Zorn, John B., Kansas City, Mo. Ice cracker. No. 1,408,677; Mar. 7.
- Zorn, John B., assignor of one-half to A. L. Fisher, Kansas City, Mo. Garment hanger. No. 1,438,350; Dec. 12.
- Zorn, John H., Chicago, Ill. Adjustable corset appliance for ruptures. No. 1,413,649; Apr. 25.
- Zotkiewicz, John, Mount Carmel, Pa. Rail-fastening means. No. 1,408,058; Feb. 28.
- Zottel, Herman J., Milwaukee, Wis. Lock nut. No. 1,426,530; Aug. 22.
- Zottoli, Frank M., Boston, Mass. Resilient vehicle wheel. No. 1,435,042; Nov. 7.
- Zottoli, Frank M., Boston, Mass. Resilient vehicle wheel. No. 1,438,512; Dec. 12.
- Zouck, George H., Orange, and R. F. Russell, Jersey City, N. J., assignors to Air Reduction Company, Inc. Acetylene generator. No. 1,431,077; Oct. 3.
- Zsarnay, Béla, Belleville, assignor of one-half to A. Lewis, Newark, N. J. Mounted combination toy and carousel. No. 1,425,737; Aug. 15.
- Zsigmondv, Richard, Gottingen, and W. Bachmann, Hanover, Germany. Filter and producing same. No. 1,421,341; June 27.
- Zsoldos, Julius, Brooklyn, N. Y., assignor to Restaurant Machinery Company. Automatic food-vending machine. No. 1,435,440; Nov. 14.
- Zsoldos, Julius, Brooklyn, assignor to Restaurant Machinery Company, New York, N. Y. Vending machine. No. 1,435,441; Nov. 14.
- Zube, Carl J., et al. (See Ruehrwein, Charles J., assignor.)
- Zubryd, Anton, Jersey City, N. J. Hidden pencil. No. 1,411,767; Apr. 4.
- Zuck, Oral C., and L. O. Bacon, Okmulgee, Okla. Well-casing head. No. 1,414,320; Apr. 25.
- Zuckerman, Joseph, New York, and P. Zuckerman, Brooklyn, N. Y. Lock. No. 1,413,450; Apr. 18.
- Zuckerman, Pincus. (See Zuckerman, Joseph and P.)
- Zuefle, John. (See Cantelon, D. A., and Zuefle.)
- Zuehlke, Julius A., assignor to Quick Action Ignition Company, South Bend, Ind. Speed governor for internal-combustion engines. No. 1,409,639; Mar. 14.
- Zuhars, Benjamin C., and H. D. Clarke, assignors to The Ohio Tractor Company, Columbus, Ohio. Combined brake and rear pilot. No. 1,427,993; Sept. 5.
- Zuhars, Benjamin C., and H. D. Clarke, assignors to The Ohio Tractor Company, Columbus, Ohio. Transmission-shifting mechanism. No. 1,427,994; Sept. 5.
- Zulauf, Alvin F., Brooklyn, N. Y. Panoramic X-ray apparatus. No. 1,408,559; Mar. 7.
- Zulauf, Richard, Frankfort-on-the-Main, Germany. Manufacture of enameled writing tablets. No. 1,438,154; Dec. 5.
- Zulver, Cornelis, London, and L. E. Smith, South Shields, England. Furnace. No. 1,402,703; Jan. 3.
- Zumwalt, De Fay, El Paso, Tex. Window lock. No. 1,420,358; June 20.
- Zurbrigg, Daniel A., assignor to L. D. Caulk Company, Milford, Del. Dispensing apparatus for liquids. No. 1,431,860; Oct. 10.
- Zuruk-Zurinsky, John J., McKeesport, Pa. Clothes-pressing apparatus. No. 1,424,549; Aug. 1.
- Zutman, Morris, Chicago, Ill. Lock guard. No. 1,413,883; Apr. 25.
- Zwahlen, Emil, North Braddock, Pa. Combination blind and curtain support. No. 1,425,160; Aug. 8.
- Zwally, Victor L. (See Shifter, W. S., and Zwally.)
- Zweigbergk, Thorsten, London, England. Electric controlling system. No. 1,412,589; Apr. 11.
- Zweiman, James M., West New York, N. J. Combination lock. No. 1,417,789; May 30.
- Zweng, Ludwig, Pfronen-Steinach, Germany. Folding drawing pen. No. 1,425,738; Aug. 15.
- Zwick, Charles F. (See Askren, E. J., Worman, and Zwick.)
- Zwicker, Julius G., Berkeley, Calif. Concrete-pipe machine. No. 1,418,859; June 6.
- Zwickl, Max, Hoboken, N. J. Automobile heater. No. 1,420,301; June 20.
- Zwicky, Melchior, assignor to Textile Machine Works, Wyomissing, Pa. Loop-regulating mechanism for knitting machines. No. 1,417,289; May 23.
- Zwicky, Melchior, assignor to Textile Machine Works, Wyomissing, Pa. Selva-reinforcing attachment for full-fashioned knitting machines. No. 1,417,290; May 23.
- Zwicky, Melchior, assignor to Textile Machine Works, Wyomissing, Pa. Thread-carrier stop mechanism for full-fashioned knitting machines. No. 1,402,033; Jan. 3.
- Zwiebelson, Abraham, New York, N. Y. Brassière. No. 1,414,321; Apr. 25.
- Zwiebelson, Abraham, New York, N. Y. Corset. No. 1,414,245; Apr. 25.
- Zwiebelson, Abraham, New York, N. Y. Corset. No. 1,415,757; May 9.
- Zwilling, Wilhelm, Geissen, Germany. Securing stay bolts and the like. No. 1,404,561; Jan. 24.
- Zwilling, Bernhard, deceased, New York, N. Y.; K. Zwilling, administratrix. By-product coke oven with sole firing. No. 1,428,621; Sept. 12.
- Zwilling, Bernhard, deceased, New York, N. Y.; K. Zwilling, administratrix. Sole-heated coke oven. No. 1,428,622; Sept. 12.
- Zwilling, Klara, administratrix. (See Zwilling, Bernhard.)
- Zwyssig, Adolf, Sisikon, Switzerland. Change-speed gear. No. 1,426,700; Aug. 22.
- Zwoboda, August, New York, N. Y. Printing press. No. 1,440,203; Dec. 26.
- Zwosta, Michael J. (See Graf, F. C., and Zwosta.)

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

- Aaron, Moses, Cincinnati, Ohio. Tire. No. 61,637; Nov. 7.
- Abbott, Incorporated. (See Abbott, William B., assignor.)
- Abbott, William B., assignor to Abbott, Incorporated, Bend, Oreg. Talcum-powder box. Nos. 60,205-6; Jan. 17.
- Abolin, Harry T., Wood Ridge, assignor to Lincrusta-Walton Company, Hackensack, N. J. Wall covering in raised relief. Nos. 61,405-7; Aug. 29.
- Acheson Harden Company. (See Harden, James, assignor.)
- Adam, Harry C., St. Louis, Mo. Lighting fixture. Nos. 61,076-8; June 20.
- Adam, Harry C., St. Louis, Mo. Principal central body of a lighting fixture. No. 61,146; July 4.
- Adam, Harry C., St. Louis, Mo. Lighting fixture. No. 61,147; July 4.
- Adams, George F., Omaha, Neb. Film reel holder. No. 60,846; Apr. 18.
- Adams, John L., Chicago, Ill. Pen fountain. No. 60,924; May 2.
- Aemisegger, Jean, assignor to Inflexible Co., West New York, N. J. Embroidered lace. No. 60,972; May 23.
- Aeolian Company, The. (See Clingman, James S., assignor.)
- Aeolian Company, The. (See Millington, William, assignor.)
- Ahrens, Lillian S., New York, N. Y. Quilted doll. No. 61,384; Aug. 22.
- Aichberger, Carl, Westwood, N. J., assignor to Ansonia Clock Co., Brooklyn, N. Y. Mirror or picture frame. No. 61,673; Nov. 21.
- Ainsworth, George R., Great Neck, N. Y. Electric-lighting fixture. No. 60,716; Mar. 28.
- Airdry Corporation. (See Hibbard, Rhuel B., assignor.)
- Alexander Smith & Sons Carpet Company. (See Stengel, George J.)
- Allan, Charles G., Denver, Colo. Flag. No. 61,554; Oct. 24.
- Allan, William N., San Antonio, Tex. Tread for a vehicle tire. No. 60,596; Mar. 14.
- Allen, John E., Big Creek, Calif. Automobile lamp. No. 60,597; Mar. 14.
- Allen, Winthrop B., Watertown, assignor to Rousmaniere, Williams & Co., Boston, Mass. Textile fabric. No. 60,636; Mar. 21.
- Allen, Winthrop B., Wollaston, assignor to Rousmaniere, Williams & Co., Boston, Mass. Textile fabric. No. 60,764; Apr. 11.
- Alliger, Leroy. (See Handley, Agnes P., assignor.)

Alphabetical list of patentees of designs—Continued.

- Alsopp, George A., Newark, N. J. Finger ring. No. 60,949; May 16.
- Altenberg, George P., assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Vacuum-insulated jug. No. 60,483; Feb. 28.
- Altorfer, Alpheus W., Peoria, Ill. Washing-machine cabinet. No. 60,393; Feb. 14.
- Amato, Gennaro A., assignor to Usnoise Refrigerating Corporation, New York, N. Y. Iceless refrigerator. No. 61,009; May 30.
- Amberg, Louis, & Son. (See Denivelle, Otto E., assignor.)
- Amblor, Isaac, Jeannette, Pa. Mixing bowl. No. 60,746; Apr. 4.
- Amblor, Isaac, assignor to Jeannette Glass Company, Jeannette, Pa. Automobile headlight lens. No. 60,717; Mar. 28.
- American Can Company. (See Eberhart, Felix, assignor.)
- American Fabrics Company, The. (See Monk, Thomas, assignor.)
- American Fabrics Company, The. (See Page, Samuel H., assignor.)
- American Fabrics Company, The. (See Phillips, Hans A., assignor.)
- American Gasaccumulator Company. (See Medén, Eloy H., assignor.)
- American Kardex Company. (See Rand, James H., Jr., assignor.)
- American Rubber & Tire Company, The. (See Evans, John C., assignor.)
- American Silver Company, The. (See Large, Samuel J., assignor.)
- American Stove Company. (See Meacham, Benjamin E., assignor.)
- American Telephone and Telegraph Company. (See Thompson, G. K., and Harper, assignors.)
- Ammen, Francis D., St. Louis, Mo. Toy. No. 61,079; June 20.
- Anderson, Carl T., Madison, Wis. Desk. No. 61,355; Aug. 15.
- Anderson, Frank, assignor to Barcalo Manufacturing Company, Buffalo, N. Y. Bedstead end frame. Nos. 60,765-6; Apr. 11.
- Andrews, Daniel A., Cedar Keys, Fla. Brush. Nos. 61,356-8; Aug. 15.
- Andrus, Hiram J., Akron, Ohio. Tire. No. 61,026; June 6.
- Andrus, Hiram J., Akron, Ohio. Tire. Nos. 61,432-3; Sept. 5.
- Anhouse, Samuel, New York, N. Y. Fancy box. No. 60,438; Feb. 21.
- Annin & Co. (See Chandler, Digby W., Jr., assignor.)
- Ansonia Clock Co. (See Aichberger, Carl, assignor.)
- Ansonia Clock Co. (See Cowles, Russel A., assignor.)
- Ansonge, Percy L., Brooklyn, N. Y. Lighting fixture. No. 61,515; Sept. 26.
- Anthony, Thomas C., Brooklyn, N. Y. Direction indicator for vehicles. No. 61,492; Sept. 19.
- Antiga y Escobar, Juan, Habana, Cuba. Puzzle or game board. No. 60,450; Feb. 21.
- Antrim, William D., assignor to Welsbach Company, Gloucester, N. J. Gas heater. No. 60,747; Apr. 4.
- Appleton, Henry W., Passaic, N. J., assignor to The Bryant Electric Company, Bridgeport, Conn. Attachment-plug cap. Nos. 60,284-5; Jan. 24.
- Archer, Alfred C. (Deaderick, Michael D., assignor.)
- Archer, Frank M., Brookline, Mass. Candy. No. 60,637; Mar. 21.
- Archer, Frank M., Brookline, assignor to The Moxie Company, Boston, Mass. Holder for ash trays or similar articles. No. 60,973; May 23.
- Armstrong Cork Company. (See Humphreys, Charles F., assignor.)
- Armstrong Cork Company. (See Humphreys, Harry S., assignor.)
- Armstrong Cork Company. (See Post, Cornelia M., assignor.)
- Armstrong, Ernest R., St. Paul, Minn. Radiator cap. No. 60,187; Jan. 10.
- Arter, Thomas W., Bellaire, Ohio. Typewriter mat. No. 61,296-301; Aug. 1.
- Ash, Isidore, New York, N. Y. Combined overblouse and sash. No. 60,121; Jan. 3.
- Augenstein, William C., Chicago, Ill., assignor to Vesta Battery Corporation. Lamp casing or similar article. No. 60,598; Mar. 14.
- Automatic Transportation Company, The. (See Carr, William C., assignor.)
- Automotive Manufacturing Company. (See Moore, Harry C., assignor.)
- Bach, John J. (See Klase, J. L., McGraun, and Bach.)
- Baer, William H. (See Kelsey, H. W., and Baer.)
- Baillard, Fannie M. (See Schwinger, Mae H., assignor.)
- Bailey, Banks & Biddle Co. (See Bailey, Charles W., assignor.)
- Bailey, Banks & Biddle Co. (See Meell, George A., assignor.)
- Bailey, Charles W., assignor to Bailey, Banks & Biddle Co., Philadelphia, Pa. Ring. No. 61,555; Oct. 24.
- Baker, Alfred Z., Newark, N. J., assignor to Fulton Specialty Co. Chart for educational games. No. 61,434; Sept. 5.
- Baker, Frederick C., Portland, Oreg. Combined nutcracker and bowl. No. 60,394; Feb. 14.
- Baker, James F., Hutchinson, Kans. Cigar band. No. 60,122; Jan. 3.
- Baldauf, Max, Plauen, Germany, assignor to Perlmann, Schäl & Stern, New York, N. Y. Machine embroidery. No. 61,710; Dec. 12.
- Ballard, Herbert T., Norristown, Pa. Knitted rib fabric. No. 61,536; Oct. 24.
- Banker, Daniel G., Dansville, assignor of three-eighths to M. E. Westcott and one-fourth to E. McConnell, Corning, N. Y. Signal box for motor vehicles. No. 61,711; Dec. 12.
- Banks, Willis G., East Orange, N. J. Cap for a clothes post or similar article. No. 60,439; Feb. 21.
- Bannon, Winifred, Joliet, Ill. Doll. No. 60,638; Mar. 21.
- Barcalo Manufacturing Company. (See Anderson, Frank, assignor.)
- Barci, George, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 60,767; Apr. 11.
- Barci, George, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 61,266; July 25.
- Barnard, Frank, Louisville, Ky. Doll. No. 60,599; Mar. 14.
- Barnett, Ira S., Louisville, Ky. Smoker's pipe. No. 60,505; Mar. 7.
- Barron, John T. (See Mullins, Charles E., assignor.)
- Barrows, Haydn W., Morris Park, N. Y. Electric lamp. No. 61,638; Nov. 7.
- Barth, L., & Son. (See Engelhardt, Martin M., assignor.)
- Bartholomew, Walter E., Niles, Mich. Toy saddle horse. No. 60,974; May 23.
- Bartley, William B., assignor to The J. D. Bergen Co., Meriden, Conn. Cut-glass vessel. No. 61,616; Oct. 31.
- Bartuzel, Jan, Youngstown, Ohio. Flytrap. No. 61,729; Dec. 26.
- Bartuzi, John, et al. (See Yuniewicz, Joseph, assignor.)
- Baslaski, Joseph, New Britain, Conn. Stove-ring lifter. No. 60,207; Jan. 17.
- Basic Manufacturing Company, The. (See Fesler, Douglas F., assignor.)
- Batts, John T., Grand Rapids, Mich. Costumer. No. 60,600; Mar. 14.
- Batts, John T., Grand Rapids, Mich. Costumer stand. No. 60,639; Mar. 21.
- Batts, John T., Grand Rapids, Mich. Garment-hanger bracket. No. 60,640; Mar. 21.
- Bauer, Francis C., Chattanooga, Tenn. Kimono. No. 60,601; Mar. 14.
- Baughan, Edgar A., Atlanta, Ga. Badge, button, emblematic cap, or article of similar nature. No. 61,693; Nov. 28.
- Bauman, Max, New York, N. Y. Ring or similar article of manufacture. No. 61,058; June 13.
- Bead Chain Manufacturing Company, The. (See Gagnon, William J., assignor.)
- Beagary, Herbert C., Philadelphia, Pa. Doll. No. 61,080; June 20.
- Beardlee Chandelier Manufacturing Company. (See Beel, Jay B., assignor.)
- Beaver Machine and Tool Co., Inc. (See Ponon, Paul S., assignor.)
- Bechtold, William S., Newark, N. J. Back comb or similar article. Nos. 60,302-7; Feb. 7.
- Beckenstein, Barnett, Brooklyn, N. Y. Sweater. No. 61,459; Sept. 12.
- Becker, Joseph G., Pittsburgh, Pa. Toy. No. 60,932; May 9.
- Beel, Jay B., assignor to Beardslee Chandelier Manufacturing Company, Chicago, Ill. Surface ornamentation for a ceiling plate or similar article. No. 60,847; Apr. 18.
- Belafsky, Israel, Chicago, Ill. Hat. No. 61,617; Oct. 31.
- Bell, Mary E., Redondo Beach, Calif. Doll. No. 60,641; Mar. 21.
- Bendixen, Albrekt K., Schenectady, N. Y. Stickpin. No. 60,889; Apr. 25.
- Benison, John M., Camden, N. J. Finger ring. No. 61,460; Sept. 12.
- Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical receptacle. No. 61,027; June 6.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Chain. No. 61,359; Aug. 15.
- Benson, Flora, Angleton, Tex. Paper doll. Nos. 60,208-9; Jan. 17.
- Berge, Joseph, Dayton, Ohio, assignor to Champion Ignition Company, Flint, Mich. Combination clock, ammeter, and gauge. No. 60,210; Jan. 17.
- Bergen, J. D., Co., The. (See Bartley, William B., assignor.)
- Berger, Joseph, New York, N. Y. Clock or similar article. No. 60,484; Feb. 28.
- Bergougan Rubber Corporation. (See Carter, John N., assignor.)
- Berkowitz, Isaac, New York, N. Y. Lens. Nos. 61,028-9; June 6.
- Berlin, Harry S., assignor to The Victor Rubber Company, Springfield, Ohio. Pneumatic-tire tread. No. 60,933; May 9.

- Berlin, Harry S., assignor to The Victor Rubber Company, Springfield, Ohio. Pneumatic tire tread. No. 61,148; July 4.
- Berry, James H., assignor to Alexander Smith & Sons Carpet Company, Yonkers, N. Y. Carpet. No. 60,506; Mar. 7.
- Best, H. A., Lamp Company. (See Best, Harry A.)
- Best, Harry A., assignor of one-half to H. A. Best Lamp Company, Chicago, Ill. Lamp. No. 60,950; May 16.
- Best, Leonard E. (See Glidden, A. A., and Best)
- Betke, Herman F., Okmulgee, Okla. Netted fabric. No. 61,385; Aug. 22.
- Beug, Glee, Sturgis, S. Dak. Doll. No. 61,130; June 27.
- Bickel, Earl S. R., and P. De Barthe, Philadelphia, Pa., assignors, by mesne assignments, to National Society of United States Daughters of 1812, Washington, D. C. Badge, pin, button, or similar emblem. Nos. 60,509-10; Mar. 7.
- Bidwell, Burton O., Chicago, assignor to F. W. Hopkins, Wilmette, Ill. Toy dog. Nos. 61,288-9; Aug. 1.
- Bigelow Hartford Carpet Company. (See Enis, Joseph, assignor.)
- Bigelow Hartford Carpet Co. (See Sauer, Harold R., assignor.)
- Biggs, Joseph F., Richmond, Va. Talking-machine cabinet. No. 61,656; Nov. 14.
- Bilton, Dawkin, Detroit, Mich. Toy. No. 60,718; Mar. 28.
- Binkovitz, M., & Son. (See Meyers, Edward G., assignor.)
- Blackwell, Harlie A., and F. P. Myers, Portland, Oreg. Radiator cap. No. 60,309; Feb. 7.
- Blackwell, William T., Westfield, N. J., assignor to Westinghouse Lamp Company. Lighting fixture. No. 60,308; Feb. 7.
- Blackwell, William T., Westfield, N. J., assignor to Westinghouse Lamp Company. Lighting fixture. Nos. 60,310-11; Feb. 7.
- Blackwell, William T., Westfield, N. J., assignor to Westinghouse Lamp Company. Lighting fixture. No. 61,360; Aug. 15.
- Blake, Joseph E., Gardner, Mass. Toy shackle. No. 61,149; July 4.
- Blank & Company. (See Davis, Elizabeth A., assignor.)
- Blanck & Company. (See Langenegger, John, assignor.)
- Blaydes, William F., jr., assignor of one-half to L. H. Jacobson, Washington, D. C. Doll. No. 61,618; Oct. 31.
- Blekre, Edgar O., Sioux City, Iowa. Elastic tire tread. No. 61,335; Aug. 8.
- Blindt, William E., Newark, N. J., assignor to Jones & Woodland Company. Finger ring. No. 60,602; Mar. 14.
- Blumenthal, Sidney & Co. (See Kozlay, Clarence V., assignor.)
- Bollinger, Frederick A., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tire tread. No. 61,290; Aug. 1.
- Bootrym, Adam, Scranton, Pa. Frame. No. 61,081; June 20.
- Bostroem, August. (See Schwartz, S. R., and Bostroem.)
- Bostroem, August, assignor to S. R. Schwartz, New York, N. Y. Portable lamp base. Nos. 61,361-2; Aug. 15.
- Bottomo, Edgar M., Moundsville, W. Va., assignor to The Palm Brothers Company, New York, N. Y. Plate or similar article. Nos. 60,768-70; Apr. 11.
- Bottomo, Edgar M., Moundsville, W. Va., assignor to The Palm Brothers Company, New York, N. Y. Plate or similar article. Nos. 60,890-3; Apr. 25.
- Boucher, Henry H., Los Angeles, Calif. Solid rubber tire for vehicles. No. 61,150; July 4.
- Boucher, William, Jr., Baltimore, Md. Display collar for a receptacle. No. 60,440; Feb. 21.
- Bowdoin, Harold M., Tuckahoe, N. Y. Candle holder. No. 60,603; Mar. 14.
- Bowdoin, Harold M., Tuckahoe, N. Y. Bowl stand. No. 60,604; Mar. 14.
- Bowen, Michael B., assignor to Faries Manufacturing Company, Decatur, Ill. Arm for lighting fixtures. Nos. 60,975-6; May 23.
- Bowman, Hilma C. A., Minneapolis, Minn. Flag. No. 61,082; June 20.
- Bown, Lewis H., East Aurora, assignor to Buffalo Pottery, Buffalo, N. Y. Plate or similar article. No. 60,441; Feb. 21.
- Boyce, Harrison H., Forest Hills, N. Y. Fluid container for fire extinguishers. No. 60,511; Mar. 7.
- Brach, Leon S., Newark, N. J. Temperature-indicating device. No. 60,848; Apr. 18.
- Bradley Washfountain Co. (See Schlesinger, Louis, assignor.)
- Bradley, William M., Los Angeles, Calif. Lamp. No. 60,605; Mar. 14.
- Brandt, Carl, assignor to Winslow Bros. & Smith Co., Boston, Mass. Leather. Nos. 60,211-12; Jan. 17.
- Breitenstein, Arthur L., Akron, Ohio. Elastic vehicle tire. No. 60,512; Mar. 7.
- Breitenstein, Arthur L., Akron, Ohio. Elastic vehicle tire. No. 61,030; June 6.
- Brill, Max, New York, N. Y. Hand bag. No. 61,529; Oct. 3.
- Brock and Company. (See Ginder, Wallace G., assignor.)
- Broadwell, Edward H., Longmeadow, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire. No. 61,557; Oct. 24.
- Brockman, Oscar, Louisville, Ky. Vending vehicle. No. 60,395; Feb. 14.
- Brockmann, George R., assignor to Supreme Pyramid Ancient Egyptian Order of Sciots, San Francisco, Calif. Emblem, button, brooch, fob, or similar article. No. 61,031; June 6.
- Brown, James E., Laramie, Wyo. Flagpole. No. 61,558; Oct. 24.
- Brown, John C., and L. E. Kraft, assignors to Fort Wayne Tire & Rubber Manufacturing Company, Fort Wayne, Ind. Tire tread. No. 60,977; May 23.
- Brunswick-Balke-Collender Company, The. (See Hine, Cicero, assignor.)
- Brunswick, Edmond L. (See Christensen, H., and Brunswick.)
- Brunswick, Edmond L., and H. Christensen, Chicago, Ill. Light fixture. Nos. 61,642-3; Nov. 7.
- Bryant Electric Company, The. (See Appleton, Henry W., assignor.)
- Buchsbaum, Samuel, Chicago, Ill. Belt-buckle frame. Nos. 60,849-52; Apr. 18.
- Buchwitz, William, Brooklyn, assignor to Golding Bros. Company, New York, N. Y. Fabric. No. 60,771; Apr. 11.
- Buckeye Rubber Products Company, The. (See Current, Wertus G., assignor.)
- Buckley, Mary L., North Attleboro, Mass. Flower-pattern plate. No. 60,213; Jan. 17.
- Budlong, Standish S., Rockford, Ill. Lavatory fixture. No. 60,396; Feb. 14.
- Budweiser, Bernhard, Chicago, Ill. Helmet. No. 60,442; Feb. 21.
- Buffalo Pottery. (See Bown, Lewis H., assignor.)
- Bunde & Upmeyer Co. (See Katke, Thomas C., assignor.)
- Bunting, James H., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 60,507-8; Mar. 7.
- Bunting, James H., assignor to Susquehanna Silk Mills, New York, N. Y. Brocade fabric. No. 60,642; Mar. 21.
- Bunting, James H., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 60,772; Apr. 11.
- Bunting, James H., Clifton, N. J., assignor to Susquehanna Silk Mills. Textile fabric. Nos. 61,730-2; Dec. 26.
- Burglar Alarm & Metallic Manufacturing Corporation. (See Dulczewski, Sigmund, assignor.)
- Burkhardt, George R., assignor to White & Wyckoff Manufacturing Company, Holyoke, Mass. Ornamental paper-strip envelope band. No. 60,313; Feb. 7.
- Burnett, Ira A., Chicago, Ill. Combined bulletin and time board. No. 61,435; Sept. 5.
- Burns, Anthony J., assignor to Burns-Pollock Electric Manufacturing Company, Indiana Harbor, Ind. Combined lamp and phonograph. No. 61,291; Aug. 1.
- Burns-Pollock Electric Manufacturing Company. (See Burns, Anthony J., assignor.)
- Burnup, Russell J., Haverhill, Mass. Candy box. No. 60,606; Mar. 14.
- Bush, Albert A., assignor to The Oldfield Tire Company, Akron, Ohio. Tire tread. No. 60,443; Feb. 21.
- Buteau Sales Company. (See Rogers, Marguerite, assignor.)
- Butler, Silas E., assignor to The Gross Photo Supply Company, Toledo, Ohio. Picture mount. No. 60,485; Feb. 28.
- Butterick, Naason Z., Jacksonville, Fla. Roofing element. No. 61,363; Aug. 15.
- Byers, Firm B., New York, N. Y. Collar clasp. No. 60,123; Jan. 3.
- Byers, Robert P., Toronto, Ontario, Canada. Charm. No. 60,214; Jan. 17.
- Byron Weston Company. (See Weston, Donald M., assignor.)
- Cabalka, Albina, Geddes, S. Dak. Dress fabric. No. 61,186; July 11.
- Campbell, Charles A., New York, N. Y. Lighting bulb. No. 60,925; May 2.
- Cannon, James, Long Branch, N. J. Flag of the Ethiopian race. No. 60,934; May 9.
- Card, Edson B., New York, N. Y. Doll. No. 61,461; Sept. 12.
- Caretto, Mary, Bisbee, Ariz. Doll. No. 61,083; June 20.
- Carey Tire & Rubber Company, The. (See Carnal, William, assignor.)
- Carl, Fred, Indianapolis, Ind. Ring, pin, or article of similar nature. No. 61,559; Oct. 24.
- Carnean, James H. (See Carnean, Samuel M. and J. H.)
- Carnean, Samuel M. and J. H., Kansas City, Mo. Heater casing. Nos. 60,215-16; Jan. 17.
- Carmichael, John H., Roanoke, Va. Bottle. No. 61,131; June 27.
- Carnal, William, Akron, assignor to The Carey Tire & Rubber Company, Carey, Ohio. Tire. No. 61,221; July 18.
- Carnal, William D., Akron, Ohio, assignor to Ray Puncture Proof Tire Company, Chicago, Ill. Tire. No. 61,493; Sept. 19.
- Carr-Lowrey Glass Co. (See Newell, Louis B., assignor.)
- Carr, William C., assignor to The Automatic Transportation Company, Buffalo, N. Y. Electric automobile body. No. 60,314; Feb. 7.
- Carter, John N., Trenton, N. J., assignor to Bergougnan Rubber Corporation, Wilmington, Del. Nonskid tire. No. 61,462; Sept. 12.
- Carter, Lily B., Palo Alto, Calif. Doll-shaped pennant or similar article. No. 60,773; Apr. 11.
- Cartier, Inc. (See Fuchs, Emil, assignor.)

Alphabetical list of patentees of designs—Continued.

- Case, Francis M., Cleveland, Ohio, assignor, by mesne assignments, to The Foote-Burt Company. Combination washing-machine tub and frame. No. 60,978; May 23.
- Case, Willard T., New Brunswick, N. J., assignor to Deltos Grass Rug Company, Oshkosh, Wis. Grass mat. Nos. 60,774-76; Apr. 11.
- Case, Willard T., New Brunswick, N. J., assignor to Deltos Rug Company, Oshkosh, Wis. Wool fiber rug. No. 60,777; Apr. 11.
- Caterini, Rocco, Archbald, Pa. Rubber heel. No. 60,315; Feb. 7.
- Caulk, L. D., Company, The. (See Grier, Garrett L., assignor.)
- Cawthron, George, Redwood, Calif. Lighting fixture. No. 61,408; Aug. 29.
- Centrone, Rocco, Brooklyn, assignor of one-half to F. Napoli. New York, N. Y. Shoe vamp. No. 61,718; Dec. 19.
- Century Manufacturing Company, The. (See Lebzelter, William F., assignor.)
- Champion Ignition Company. (See Berge, Joseph, assignor.)
- Chandler, Digby W., Jr., assignor to Annin & Co., New York, N. Y. Flag or banner. No. 60,894; Apr. 25.
- Chaney Manufacturing Company, The. (See Keogh, Anthony, assignor.)
- Chaney Manufacturing Company, The. (See Ward, James E., assignor.)
- Chapman, William M., Hartford, Ind. Ash tray. No. 61,267; July 25.
- Chase, Arthur E., Toledo, Ohio, assignor to Grand Council of the Ladies' Oriental Shrine of North America, Wheeling, W. Va. Emblem, badge, or button. No. 61,151; July 4.
- Cheney Talking Machine Company. (See MacLachlan, Lachlan, assignor.)
- Cheney Talking Machine Company. (See Miller, William H., assignor.)
- Cheramy, Inc. (See Miles, Frank J. M., assignor.)
- Chernoff, William, Brooklyn, N. Y. School bag. No. 60,444; Feb. 21.
- Chicago City Rubber Works. (See Drish, John P., assignor.)
- Christensen, Harry. (See Brunswick, E. L., and Christensen.)
- Christensen, Harry, and E. L. Brunswick, Chicago, Ill. Light stand. Nos. 61,639-41; Nov. 7.
- Cigol, Frank A., Paterson, N. J. Toy ball. No. 60,979; Mar. 23.
- Cinq-Mars, Legendre, San Francisco, Calif. Gas-radiator section. No. 60,486; Feb. 28.
- Clardy, George D., Allwood, N. J. Statuette. No. 60,778; Apr. 11.
- Clark, Arthur H., Plainfield, N. J. Tire tread. No. 60,748; Apr. 4.
- Clatworthy, William E., Los Angeles, Calif. Juvenile-vehicle frame. No. 60,217; Jan. 17.
- Clements, Joseph L., Birmingham, Ala. Broom and mop hanger. No. 60,980; May 23.
- Clemetson, Gustie M., Park River, N. D. Shade and curtain fixture. No. 60,124; Jan. 3.
- Clingman, James S., Grand Rapids, Mich., assignor to The Aeolian Company. Cabinet for phonographs. Nos. 61,560-6; Oct. 24.
- Clinton, Frederick D., Milwaukee, Wis. Sink structure. No. 60,318; Feb. 7.
- Clow, James B., & Sons. (See Zettler, Emil, assignor.)
- Clox-Lite Mfg. Company, Inc. (See Hall, George L., assignor.)
- Coco, Rosario, Brooklyn, N. Y. Votive stand. No. 61,010; May 30.
- Codman, William, assignor to Gorham Manufacturing Company, Providence, R. I. Handle for a spoon, fork, or similar article. Nos. 61,084-5; June 20.
- Codman, William, assignor to Gorham Manufacturing Company, Providence, R. I. Spoon or the like. No. 61,567; Oct. 24.
- Cody, Everett, Washington, D. C. Pendant. No. 61,032; June 6.
- Cohan-Epner Co. Inc. (See Kronburger, Stephen, assignor.)
- Cohen, Harold F., assignor to Chas. Green Company, Inc., New York, N. Y. Sample card. No. 60,397; Feb. 14.
- Cohn, Louis J. (See Rosenthal, Louis, assignor.)
- Colby, Willis H., Detroit, Mich. Combination inkwell, calendar, and desk rack. No. 61,386; Aug. 22.
- Colins, Maurice W., Cheyenne, Wyo. Desk utensil—namely, a paper weight, inkstand, or similar article. No. 60,487; Feb. 28.
- Condon, William M., Harrisburg, Pa. Sign. No. 60,513; Mar. 7.
- Cooke, Charles F., Chicago, Ill. Highway sign. No. 61,086; June 20.
- Coty, Francois J. de S., Paris, France. Bottle. No. 60,320; Feb. 7.
- Cowles, Russel A., New York, assignor to Ansonia Clock Co., Brooklyn, N. Y. Ash tray or the like. Nos. 61,463-4; Sept. 12.
- Crane, William M., Company. (See O'Dowd, Henry W., assignor.)
- Crex Carpet Company. (See Waldo, Algeron H., assignor.)
- Crowell, Frank S., Toledo, Ohio. Arm for lighting fixtures. No. 61,516; Sept. 26.
- Crowell, Frank S., assignor to The Edward N. Riddle Co., Toledo, Ohio. Portable lamp. No. 60,895; Apr. 25.
- Crowell, Frank S., assignor to The Edward N. Riddle Co., Toledo, Ohio. Chandelier for lighting fixtures. Nos. 61,719-20; Dec. 19.
- Crowell, Gilbert L., Jr., Arlington, N. J., assignor to Dominick & Huff, New York, N. Y. Dish, plate, or similar article. No. 61,222; July 18.
- Cummings, Frank, Chicago, Ill. Phonograph cabinet. No. 60,951; May 16.
- Curran, Edward T., Detroit, Mich. Combined radiator cap and temperature indicator. No. 60,749; Apr. 4.
- Curran, Edward T., Detroit, Mich. Auto thermometer. No. 60,780; Apr. 11.
- Curran, Edward T., Detroit, Mich. Radiator cap. No. 60,779; Apr. 11.
- Current, Wertus G., assignor to The Buckeye Rubber Products Company, Willoughby, Ohio. Vehicle tire. No. 61,336; Aug. 8.
- Curtis, Edgar F., Brookline, assignor to Rousmaniere, Williams & Co., Boston, Mass. Textile fabric. No. 60,781; Apr. 11.
- Curtiss, George E. (See Smith, C. F., and Curtiss.)
- Curtiss, George E., assignor to Landers, Frary & Clark, New Britain, Conn. Toaster. No. 60,398; Feb. 14.
- Custer, Levitt L., Dayton, Ohio. Toy automobile. No. 60,643; Mar. 21.
- Dahl, Benjamin, Minneapolis, Minn. Tire. No. 61,033; June 6.
- Dahl, Thure, New York, N. Y., assignor to Lightolier Co. Lighting fixture. No. 60,981; May 23.
- Dahl, Thure, New York, N. Y., assignor to Lightolier Co. Canopy for lighting fixtures. No. 60,982; May 23.
- Dahl, Thure, New York, N. Y., assignor to Lightolier Co. Body for lighting fixtures. No. 60,983; May 23.
- Dahl, Thure, New York, N. Y., assignor to Lightolier Co. Shade frame for lighting fixtures. No. 60,984; May 23.
- Dahl, Thure, New York, N. Y., assignor to Lightolier Company. Loop for lighting fixtures. No. 61,011; May 30.
- Dahl, Thure, New York, N. Y., assignor to Lightolier Company. Wall bracket for lighting fixtures. No. 61,187; July 11.
- Dahl, Thure, New York, N. Y., assignor to Lightolier Company. Plate for wall brackets for lighting fixtures. No. 61,188; July 11.
- Dahl, Thure E., New York, N. Y. Electric fixture. No. 60,896; Apr. 25.
- Dahl, Thure E., New York, N. Y. Arm for electric fixtures. Nos. 60,897-8; Apr. 25.
- Dahl, Thure E., New York, N. Y. Body part for electric fixtures. No. 60,899; Apr. 25.
- Dahl, Thure E., New York, N. Y. Canopy for lighting fixtures. No. 60,900; Apr. 25.
- Dahl, Thure E., New York, N. Y. Body plate for electric fixtures. Nos. 60,901-2; Apr. 25.
- Dahl, Thure E., New York, N. Y. Body part for lighting fixtures. Nos. 60,903-4; Apr. 25.
- Dahl, Thure E., New York, N. Y. Globe for lighting fixture. No. 61,034; June 6.
- Dahl, Thure E., New York, N. Y. Loop for lighting fixtures. No. 61,059; June 13.
- Dahl, Thure E., New York, N. Y. Candle cup for lighting fixtures. No. 61,060; June 13.
- Dahl, Thure E., New York, N. Y. Bracket back for lighting fixtures. No. 61,061; June 13.
- Dahl, Thure E., New York, N. Y. Arm for electric fixtures. No. 61,062; June 13.
- Dahl, Thure E., New York, N. Y. Plate for lighting fixtures. No. 61,063; June 13.
- Dahl, Thure E., New York, N. Y. Band for lighting fixtures. No. 61,064; June 13.
- Dahl, Thure E., New York, N. Y. Electric fixture. No. 61,065; June 13.
- Dahl, Thure E., New York, N. Y. Electric arm for lighting fixtures. Nos. 61,066-7; June 13.
- Dahl, Thure E., New York, N. Y. Arm for lighting fixtures. No. 61,068; June 13.
- Dahl, Thure E., New York, N. Y. Pan for candle cups for lighting fixtures. No. 61,069; June 13.
- Dahl, Thure E., New York, N. Y. Loop for lighting fixtures. No. 61,070; June 13.
- Dahl, Thure E., New York, N. Y. Candle cup for lighting fixtures. No. 61,071; June 13.
- Dahl, Thure E., New York, N. Y. Canopy for lighting fixtures. No. 61,072; June 13.
- Dahl, Thure E., New York, N. Y. Band for lighting fixtures. No. 61,073; June 13.
- Dahl, Thure E., New York, N. Y. Chandelier. No. 61,132; June 27.
- Dallas Brass & Copper Co. (See Stark, Alfred, assignor.)
- Dallas Brass & Copper Co. (See Yokel, Frank, assignor.)
- Damarus, Ernest R., San Diego, Calif. Toy automobile. Nos. 60,644-6; Mar. 21.
- Damm, Charles F., Buffalo, N. Y. Headlight. No. 60,322; Feb. 7.
- Dannolfo, Severino, South Barre, Mass. Lady's shoe. No. 61,087; June 20.
- Daudy, Marc H., assignor to North American Lace Company, Philadelphia, Pa. Lace. Nos. 61,733-4; Dec. 26.
- Davidson, Harry I., Portland, Oreg. Automobile ornament. No. 60,323; Feb. 7.

- Davignon, Albert, Chiswick, England, assignor to Witcombe, McGeechin & Co., New York, N. Y. Fabric wall paper, wrapping paper, or similar article. No. 60,647; Mar. 21.
- Davis, Charles S., et al., trustees. (See Gordon, Henry C., assignor.)
- Davis, Earl M., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt-buckle frame. Nos. 61,535-8; Oct. 10.
- Davis, Elizabeth A., assignor to Blanck & Company, Inc., New York, N. Y. Lace. No. 61,189; July 11.
- Davis, Elizabeth A., assignor to Blanck & Company, Inc., New York, N. Y. Embroidery. Nos. 61,721-4; Dec. 19.
- Davis, Minnie F., Topeka, Kans. Shoe-fitting stool. No. 61,735; Dec. 26.
- Davis, Rees, Chicago, Ill. Doll. Nos. 60,445-7; Feb. 21.
- Davis, Rees, Chicago, Ill. Doll. No. 60,488; Feb. 28.
- Davis, Rees, Chicago, Ill. Doll. No. 61,465; Sept. 12.
- Day, Thomas, Company. (See Goddard, Wilfred B., assignor.)
- Day, Thomas, Company. (See Roller, Milton B., assignor.)
- Deaderick, Michael D., assignor of one-half to A. C. Archer, Seattle, Wash. Smoker's stand. No. 61,619; Oct. 31.
- De Barthe, Penn. (See Bickel, F. S. R., and De Barthe.)
- Debnam, George R., Jr., Baltimore, Md. Electric heater. No. 61,088; June 20.
- De Kosenko, Stepan, assignor to Sterling Bronze Company, New York, N. Y. Ornament for a radiator cap. No. 61,045; June 6.
- Delbon, Frank G., Brooklyn, N. Y. Shoe heel. No. 60,219; Jan. 17.
- Delbon, Frank G., Brooklyn, N. Y. Shoe heel. No. 60,607; Mar. 14.
- De Leon, Lionel C., New Orleans, La. Emblem, badge, or button. No. 60,218; Jan. 17.
- De Luchi, Frank W., Oakland, Calif. Bake oven. No. 60,125; Jan. 5.
- Deltos Grass Rug Company. (See Case, Willard T., assignor.)
- Denivelle, Otto E., Mount Vernon, assignor to Louis Amberg & Son, New York, N. Y. Garment hanger. No. 60,514; Mar. 7.
- Denman, Walter R., Cleveland, Ohio. Tire tread. No. 60,853; Apr. 18.
- De Vilbiss Manufacturing Company, The. (See De Vilbiss, Thomas A., assignor.)
- De Vilbiss, Thomas A., assignor to The De Vilbiss Manufacturing Company, Toledo, Ohio. Atomizer head. No. 60,782; Apr. 11.
- Dewire, John A. (See Pardee, H. S., Dewire, and Supporter.)
- Diamond Match Company, The. (See West, George R., assignor.)
- Dieges, Charles J., assignor to Dieges & Clust, New York, N. Y. Ring. No. 61,035; June 6.
- Dieges & Clust. (See Dieges, Charles J., assignor.)
- Dietz, Benjamin H., and A. E. Hansen, Chicago, Ill. Phonograph cabinet. No. 60,648; Mar. 21.
- Dill, John W., Braddock, Pa. Belt. No. 60,608; Mar. 14.
- Dinberg, David, Ogdensburg, N. Y. Candelabrum. No. 60,448; Feb. 21.
- Dlouhy, August, assignor to H. L. Judd Company, Wallingford, Conn. Paper weight. No. 60,515; Mar. 7.
- Doddridge, J. M., & Sons. (See Doddridge, James M., assignor.)
- Doddridge, James M., assignor to J. M. Doddridge & Sons, Milton, Ind. Grave lining. No. 60,125; Jan. 3.
- Dodge, Frank W., assignor to The Seamless Rubber Company, Inc., New Haven, Conn. Inflatable doll or similar article. Nos. 61,387-8; Aug. 22.
- Dodge, Howard A., Los Angeles, Calif. Casing for pocket cash register. No. 60,649; Mar. 21.
- Doehler, Die Casting Company. (See Stern, Marcus, assignor.)
- Dominick & Huff. (See Crowell, Gilbert L., Jr., assignor.)
- Dorlon, Clarence W. (See Knight, Minnie, assignor.)
- Dougherty, Frank J., Milwaukee, Wis., assignor, by mesne assignments, to The Fisk Rubber Company, Chicopee Falls, Mass. Tire. No. 60,609; Mar. 14.
- Dowling, William, New York, N. Y. Fabric. No. 60,783; Apr. 11.
- Dowling, William, assignor to Golding Bros. Company, New York, N. Y. Fabric. No. 60,324; Feb. 7.
- Dowling, William, assignor to Golding Bros. Company, New York, N. Y. Textile fabric. No. 60,905; Apr. 25.
- Dowling, William, assignor to Golding Bros. Company, New York, N. Y. Textile fabric. No. 61,152; July 4.
- Dowling, William, assignor to Golding Bros. Company, New York, N. Y. Fabric. No. 61,180; July 11.
- Draycott, John, Pawtucket, R. I. Lace. No. 61,223; July 18.
- Draycott, John, Pawtucket, assignor to Richmond Lace Works, Alton, R. I. Lace. No. 60,935; May 9.
- Draycott, Walter, assignor to Richmond Lace Works, Alton, R. I. Lace. Nos. 60,220-2; Jan. 17.
- Drew, John E., Jersey City, N. J., assignor to Durham Duplex Razor Company, New York, N. Y. Combined razor and blade holder. No. 60,325; Feb. 7.
- Driggs, Louis L., New York, N. Y. Automobile body. No. 60,516; Mar. 7.
- Drish, John P., assignor, by mesne assignments, to Chicago City Rubber Works, Chicago, Ill. Automobile tire tread. Nos. 60,517-18; Mar. 7.
- Dryden Rubber Company. (See Todd, Dudley M., assignor.)
- Du Bois Rubber & Tube Company. (See Lightfoot, Liles H., assignor.)
- Duguid, Robert, Three Rivers, Quebec, Canada. Tricycle. No. 60,223; Jan. 17.
- Dulcowski, Sigmund, assignor to Burglar Alarm & Metallic Manufacturing Corporation, Buffalo, N. Y. Desk lamp. No. 61,133; June 27.
- Dunn Pen Company. (See Wheelock, Warren, assignor.)
- Duplan Silk Corporation. (See Geier, Ernest C., assignor.)
- Durham Duplex Razor Company. (See Drew, John E., assignor.)
- Duryea, Minga P., and C. Ingraham, New York, N. Y. Toy. No. 61,224; July 18.
- Duttenhofer-Stevens Company. (See Stevens, Edward C., assignor.)
- Dworkin, Maurice H., New York, N. Y. Electrical-fixture bowl. No. 60,224; Jan. 17.
- Dworkin, Maurice H., New York, N. Y. Electrical-fixture arm. Nos. 60,225-6; Jan. 17.
- Dyer, Charles B., Indianapolis, Ind. Emblem, badge, brooch, pin, cuff button, watch fob, or article of similar nature. No. 61,191; July 11.
- E. & J. Bass, Incorporated. (See Negbaur, Harry, assignor.)
- Eberhart, Felix, Newark, N. J., assignor to American Can Company, New York, N. Y. Talcum-powder box. Nos. 60,286-88; Jan. 24.
- Eberhart, Felix, Newark, N. J., assignor to American Can Company, New York, N. Y. Talcum-powder box. No. 60,719; Mar. 28.
- Ebert, Bert L., Long Beach, Calif. Vehicle body. No. 60,399; Feb. 14.
- Eckel, Oliver C., Mount Vernon, N. Y. Lens for headlights. No. 60,449; Feb. 21.
- Edison Electric Appliance Company, Inc. (See Randolph, Charles P., assignor.)
- Edmunds & Jones Corporation. (See Preston, Edward S., assignor.)
- Edwards, William A. (See Lytle, Magnolia B., assignor.)
- Eick, Otto, St. Louis, Mo. Rubber heel. No. 60,326; Feb. 7.
- Eisele, Adolphe, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 60,519-20; Mar. 7.
- Eisenberg, M., & Son. (See Meier, George, assignor.)
- Eisenmayer, Walter G., Los Angeles, Calif. Bottle. No. 61,012; May 30.
- Eldridge, Oliver W., Omaha, Nebr. Inkstand. No. 60,650; Mar. 21.
- Elgin National Watch Company. (See Goodrow, Francis A., assignor.)
- Ellery, Eugene, Jr., New York, N. Y. Doll. No. 61,013; May 30.
- Ellis, Lawrence E., New York, N. Y. Textile fabric. Nos. 61,089-90; June 20.
- Elsay, Brodehurst, Indianapolis, Ind. Display tag. No. 60,610; Mar. 14.
- Embee Distributing Company. (See McManus, George, assignor.)
- Emerson, Victor H., New York, N. Y. Phonographic tablet. No. 60,521; Mar. 7.
- Emsley, Amos. (See Trustman, Solomon, assignor.)
- Endres, Charles, Des Moines, Iowa. Transmission-case-supporting member. No. 60,289; Jan. 24.
- Engelhardt, Martin M., New York, N. Y., assignor to L. Barth & Son. Plate or similar article. No. 60,489; Feb. 28.
- Enis, Joseph, Jersey City, N. J., assignor to Bigelow Hartford Carpet Company, Rug. No. 60,784; Apr. 11.
- Enoch, J. Olive, Los Angeles, Calif. Stocking baby doll. No. 61,268; July 25.
- Entenmann, Carl, Jewelry Company. (See Walter, Fred, jr.)
- Erasmic Company, The. (See Maier, John A., assignor.)
- Ericson, Emile, New York, assignor to Standard Wall Paper Co., Hudson Falls, N. Y. Wall paper. No. 61,436; Sept. 5.
- Essex Rubber Company. (See Oakley, Laurence M., assignor.)
- Evans, John C., assignor to The American Rubber & Tire Company, Akron, Ohio. Footwear. No. 60,785; Apr. 11.
- Evers, Walter V. A., Jersey City, N. J., assignor to Rous maniere, Williams & Co., Boston, Mass. Textile fabric. No. 61,517; Sept. 26.
- Eyben, René, New York, N. Y. Bottle. No. 61,409; Aug. 29.
- Fagan, C. A., et al, receivers. (See Jones, Pearl N., assignor.)
- Fageol, Rollie B., Oakland, Calif. Motor-driven vehicle. No. 60,400; Feb. 14.
- Falconio, Antonio, Trenton, N. J. Automobile tire. No. 61,568; Oct. 24.
- Fallace, Anthony C., Carneys Point, N. J. Button, flag, emblem, pennant, banner, pillow top, or article of similar nature. No. 60,522; Mar. 7.
- Faries Manufacturing Company. (See Bowen, Michael B., assignor.)
- Farnsworth, Kenneth C. (See Roberts, C. V., and Farnsworth.)
- Farrell, Minnie M., Kansas City, Mo. Doll pincushion. No. 61,153; July 4.

Alphabetical list of patentees of designs—Continued.

- Farrington, Harry J., assignor to Gillette Safety Razor Company, Boston, Mass. Case for safety razor. No. 60,651; Mar. 21.
- Faure, Alexandre, New York, N. Y. Tire tread. No. 60,523; Mar. 7.
- Fausser, Gustave M., New York, N. Y., assignor to Model Mills Company, Philadelphia, Pa. Rug. Nos. 60,936-7; May 9.
- Faust, Roland C., Indiana, Pa. Newspaper rack. No. 61,736; Dec. 26.
- Feldman, Manuel, New York, N. Y. Rug. Nos. 60,652-5; Mar. 21.
- Feldman, Manuel, New York, N. Y. Rug. No. 61,569; Oct. 24.
- Fellgren, Charles W. (See Sandegren, Andrew, assignor.)
- Ferguson, William M., Fresno, Calif. Rug. Nos. 60,854-6; Apr. 18.
- Fesler, Douglas F., Evanston, Ill., assignor, by mesne assignments, to The Bassick Manufacturing Company. Grease gun. No. 61,192; July 11.
- Festa, John, Brooklyn, N. Y. Heating stove. No. 61,318; Sept. 26.
- Finis, Richard A., Stockton, Calif. Motor-vehicle signal. No. 60,227; Jan. 17.
- Firestone Tire and Rubber Company, The. (See Bolinger, Frederick A., assignor.)
- Firestone Tire and Rubber Company, The. (See Tuttle, John C., assignor.)
- Fischer, Emma S., executrix. (See Fischer, Joseph.)
- Fischer, Joseph, deceased, by E. S. Fischer, executrix, Belleville, N. J., assignor to M. T. Goldsmith, New York, N. Y. Frame for a mirror or similar article. No. 60,611; Mar. 14.
- Fishbaugh, Frank. (See Krieg, J. C., and Fishbaugh.)
- Fishel, Henry W., New York, N. Y. Pin. Nos. 60,857-63; Apr. 18.
- Fisher, Thomas, Toronto, Ontario, Canada. Belt. No. 61,091; June 20.
- Fisk Rubber Company, The. (See Broadwell, Edward H., assignor.)
- Fisk Rubber Company, The. (See Dougherty, Frank J., assignor.)
- Fisk Rubber Company, The. (See Frank, Arthur A., assignor.)
- Fisk Rubber Company, The. (See Githens, Herbert A., assignor.)
- Fisk Rubber Company, The. (See Mather, George L., assignor.)
- Fisk Rubber Company, The. (See Pratt, Benjamin H., assignor.)
- Fisk Rubber Company, The. (See Roberts, David H., assignor.)
- Flauder, Alfred J., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn. Candlestick. Nos. 61,494-7; Sept. 19.
- Fletcher, Helen M., San Francisco, Calif. Whirligig toy. No. 61,154; July 4.
- Fluegelman, Nathan, New York, N. Y. Textile fabric. No. 60,720; Mar. 28.
- Fogarty, John P., assignor to Westfield Manufacturing Company, Westfield, Mass. Handlebar grip. No. 61,657; Nov. 14.
- Foltz, Stewart P., New Castle, Pa. Business card. No. 61,466; Sept. 12.
- Foot-Burt Company, The. (See Case, Francis M., assignor.)
- Forbes, Armitage S. C. and H. R. P., Los Angeles, Calif. Bookholder. No. 61,292; Aug. 1.
- Forbes, Harry R. P. (See Forbes, Armitage S. C. and H. R. P.)
- Ford, Charles A., East Orange, N. J. Ring gauge. No. 60,612; Mar. 14.
- Ford & Manion. (See McCloskey, James F., assignor.)
- Forman Bassett Company, The. (See Kres, Charles, assignor.)
- Forman Bassett Company, The. (See Meyer Frank, assignor.)
- Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Electric range. No. 60,127; Jan. 3.
- Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Automatic electric range. No. 60,128; Jan. 3.
- Fort Wayne Tire & Rubber Manufacturing Company. (See Brown, J. C., and Kraft, assignors.)
- Foster, Charles D., Kansas City, Mo. Card back. No. 60,721; Mar. 28.
- Francis, William H., Southington, Conn. Ice cream, pop corn, candy, or cake. No. 61,293; Aug. 1.
- Frank, Arthur A., Milwaukee, Wis., assignor, by mesne assignments, to The Fisk Rubber Company, Chicopee Falls, Mass. Tire. No. 61,155; July 4.
- Frank, David C., assignor to Pelgram & Meyer, New York, N. Y. Ribbon or narrow fabric. No. 60,228; Jan. 17.
- Frazier, Earle H., Denver, Colo. Radiator cap for automobiles. No. 60,613; Mar. 14.
- Frazier, Earle H., Denver, Colo. Motometer light for automobiles. No. 60,786; Apr. 11.
- Freedman, Louis A., New York, N. Y. Bell attachment for electric lights. No. 60,290; Jan. 24.
- Freeman, Dudley, Roxbury, assignor to Panther Rubber Manufacturing Company, Stoughton, Mass. Shoe sole. No. 60,229; Jan. 17.
- Freeman, Dudley, Roxbury, assignor to Panther Rubber Manufacturing Company, Stoughton, Mass. Shoe heel. No. 60,230; Jan. 17.
- Freeman, Dudley, Roxbury, assignor to Panther Rubber Manufacturing Company, Stoughton, Mass. Shoe heel. No. 61,156; July 4.
- Freeman, Dudley, Roxbury, assignor to Panther Rubber Manufacturing Company, Stoughton, Mass. Sole or tap. No. 61,157; July 4.
- Friedley-Voshardt Co. (See Mohrmann, Paul, assignor.)
- Friedley-Voshardt Co. (See Steeple, Reginald C., assignor.)
- Friedley-Voshardt Co. (See Wellman, Lester R., assignor.)
- Friedman, Michael, Ottawa, Ontario, Canada. Smoker's ash tray. No. 61,570; Oct. 24.
- Frishmuth, Harriet W., New York, N. Y. Statuette. No. 61,294; Aug. 1.
- Fritch, Elue O. (See Glidden, A. A., and Fritch.)
- Fritch, Elue O., Belmont, assignor to Hood Rubber Company, Watertown, Mass. Tire. No. 61,674; Nov. 21.
- Fuchs, Emil, assignor to Cartier, Inc., New York, N. Y. Spoon. No. 61,410; Aug. 29.
- Fulper, William H., Flemington, N. J. Lamp shade or similar article. No. 61,411; Aug. 29.
- Fulper, William H., Flemington, N. J. Cover for containers. Nos. 61,530-2; Oct. 3.
- Fulton Specialty Co. (See Baker, Alfred Z., assignor.)
- Gabeline, Jacob B., Burlington, assignor to Standard Four Tire Company, Keokuk, Iowa. Automobile tire. No. 60,656; Mar. 21.
- Gadomski, Stanley, Chicago, Ill. Flag. No. 61,437; Sept. 5.
- Gaertner, Victor, New York, N. Y. Article of hollow tableware. Nos. 60,129-32; Jan. 3.
- Gaertner, Victor, New York, N. Y. Bread tray or similar article. No. 60,490; Feb. 28.
- Gaffney, James C., New York, N. Y. Doll. No. 61,725; Dec. 19.
- Gaffney, Richard M., St. Louis, Mo. Combined writing pad and advertising device or article of similar nature. No. 61,193; July 11.
- Gagnon, William J., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Neck chain or similar article. No. 61,533; Oct. 3.
- Gaken, Jozef F., Dunkirk, N. Y. Rubber footwear. No. 60,524; Mar. 7.
- Galle, Edward E., Los Angeles, Calif. Paste pot. No. 60,401; Feb. 14.
- Gannon, Joseph, Walton, assignor to Steinfeld Bros., New York, N. Y. Tray. No. 61,225; July 18.
- Garden City Pottery Company. (See Raymond, Daniel, assignor.)
- Garfinkle, Julius S., New York, N. Y. Electric-fixture arm. No. 60,231; Jan. 17.
- Garfinkle, Julius S., New York, N. Y. Electric-fixture arm. No. 60,614; Mar. 14.
- Garroway, Leon. (See Schnitzer, Garroway, and Gelfman.)
- Gaskill, Merwin, Grand Rapids, Mich. Combined billiard and pool sign. No. 60,525; Mar. 7.
- Gasper, John, Clayville, N. Y. Boot. No. 60,133; Jan. 3.
- Gaudioz, Edmond, Watford, England, assignor to Whitcombe, McGeachin & Co., New York, N. Y. Textile fabric or article of similar nature. No. 60,134; Jan. 3.
- Gaudioz, Edmond, Watford, England, assignor to Witcombe, McGeachin & Co., New York, N. Y. Textile fabric, wall paper, wrapping paper, or article of similar nature. No. 61,269; July 25.
- Gayner, Walter R., Altadena, Calif. Die. No. 60,526; Mar. 7.
- Gebhardt, Victor A., Cincinnati, Ohio. Ring. No. 61,726; Dec. 19.
- Gegenheimer, George, Baldwin, assignor to Golding Bros. Company, New York, N. Y. Fabric. Nos. 60,329-31; Feb. 7.
- Gegenheimer, George, Baldwin, assignor to Golding Bros. Company, New York, N. Y. Fabric. No. 60,527; Mar. 7.
- Geier, Ernest C., assignor to Duplan Silk Corporation, New York, N. Y. Trimming. No. 60,528; Mar. 7.
- Geier, Ernest C., assignor to Duplan Silk Corporation, New York, N. Y. Artificial-silk textile. No. 60,529; Mar. 7.
- Gelfman, Nathan. (See Schnitzer, Garroway, and Gelfman.)
- General Electric Company. (See Gosling, Joseph W., assignor.)
- General Electric Company. (See Wood, James J., assignor.)
- General Tire and Rubber Company. (See Iredell, Robert, assignor.)
- George, Maude S., St. Louis, Mo. Garment protector. No. 61,295; Aug. 1.
- George, W. D., et al, receivers. (See Jones, Pearl N., assignor.)
- Gerbenksy, Alfred, Okauchee, Wis. Toy. No. 60,938; May 9.
- Gerschall, Joseph, Chicago, Ill. Floor lamp. No. 61,412; Aug. 29.

- Geringer, Moris. (See Safion, H. A., and Geringer.)
 Gerts, Walter S., River Forest, Ill. Fountain pen. No. 60,283; Jan. 17.
 Gianera, Lawrence, Los Angeles, Calif. Bead for ornamental neck chains. No. 61,134; June 27.
 Gill, Stella A., Chatham, Mass. Toy windmill. No. 61,185; July 4.
 Gillette, Genevieve. (See Reber, Harvey, assignor.)
 Gillette Safety Razor Company. (See Farrington, Harry J., assignor.)
 Gillette Safety Razor Company. (See Rattray, James B., assignor.)
 Gillette Safety Razor Company. (See Wharton, Edward R., assignor.)
 Gillinder, Edgar A., assignor to Gillinder & Sons, Inc., Philadelphia, Pa. Glass lighting bowl. Nos. 60,332-5; Feb. 7.
 Gillinder, Edgar A., assignor to Gillinder & Sons, Inc., Philadelphia, Pa. Glass lighting bowl. Nos. 61,014-16; May 30.
 Gillinder & Sons, Inc. (See Gillinder, Edgar A., assignor.)
 Ginder, Wallace G., assignor to Brock and Company, Los Angeles, Calif. Ring. No. 61,194; July 11.
 Girl Scouts, Incorporated. (See MacDowell, Sidney M., assignor.)
 Githens, Herbert A., Milwaukee, Wis., assignor, by mesne assignments, to The Fisk Rubber Company, Chicopee Falls, Mass. Tire. No. 61,498; Sept. 19.
 Glaser Bros. (See Glaser, Sarah, assignor.)
 Glaser, Sarah, assignor to Glaser Bros., Boston, Mass. Finger ring. No. 60,985; May 23.
 Glidden, Alfred A., Watertown, and L. E. Best, Boston, assignors to Hood Rubber Company, Watertown, Mass. Rubber heel. No. 60,451; Feb. 21.
 Glidden, Alfred A., Watertown, and E. O. Fritch, Belmont, assignors to Hood Rubber Company, Watertown, Mass. Vehicle tire. Nos. 60,722-3.
 Glidden, Alfred A., Watertown, and E. O. Fritch, Belmont, Mass., assignors to Hood Rubber Company, Watertown, Mass. Vehicle tire. No. 60,926; May 2.
 Glossop, Margaret, Seattle, Wash. Combination tool. No. 60,135; Jan. 3.
 Goddard, Wilfred B., San Francisco, Calif. Arm for lighting fixtures. No. 61,337; Aug. 8.
 Goddard, Wilfred B., assignor to Thomas Day Company, San Francisco, Calif. Arm for lighting fixtures. No. 61,701; Dec. 5.
 Goddard, Wilfred B., assignor to Thomas Day Company, San Francisco, Calif. Arm for lighting fixtures. No. 61,737; Dec. 26.
 Goehde, Heino L., Brookline, Mass. Automobile. No. 60,657; Mar. 21.
 Goff, Milton G., Detroit, Mich. Knife-sharpening device. No. 61,938; Aug. 8.
 Goldberg, Jacob, Brooklyn, N. Y. Candy cone with stem. No. 60,136; Jan. 3.
 Goldberg, Jacob, Philadelphia, Pa. Display stand. No. 61,438; Sept. 5.
 Goldenberg, Benjamin, assignor to E. I. Horsman & Aetna Doll Co., Inc., New York, N. Y. Doll. No. 60,530; Mar. 7.
 Golding Bros. Company. (See Buchwitz, William, assignor.)
 Golding Bros. Company. (See Dowling, William, assignor.)
 Golding Bros. Company. (See Gegenheimer, George, assignor.)
 Goldsmith, Marcus T. (See Fischer, Joseph, assignor.)
 Golomb, Morris, New York, N. Y. Abdominal protector for boxers. No. 61,135; June 27.
 Goodenow, Lucene L., Battle Creek, Mich. Statuette. No. 60,952; May 16.
 Goodman, Lillian, assignor to Wool Novelty Co., Inc., New York, N. Y. Bifurcated garment. No. 60,787; Apr. 11.
 Goodrich, B. F., Company, The. (See Pierson, Robert M., assignor.)
 Goodrow, Francis A., Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Watch dial. No. 60,336; Feb. 7.
 Goodwin, John E., Stoke-upon-Trent, England, assignor to Josiah Wedgwood & Sons, Incorporated of America, New York, N. Y. Plate or similar article. Nos. 61,296-301; Aug. 1.
 Gordon, Henry C., Muncie, Ind., assignor to himself, Charles S. Davis, and J. Carl O'Hara, trustees. Electric heater. No. 60,337; Feb. 7.
 Gorgas, Howard J., assignor to Vanity Fair Silk Mills, Reading, Pa. Textile fabric. No. 61,092; June 20.
 Gorham Manufacturing Company. (See Codman, William, assignor.)
 Gosling, Joseph W., Schenectady, N. Y., assignor to General Electric Company. Electric-lighting fixture. Nos. 60,452-3; Feb. 21.
 Gosling, Joseph W., Schenectady, N. Y., assignor to General Electric Company. Standard for lighting fixtures. No. 61,226; July 18.
 Gossner, Joseph, New York, N. Y. Combined paper weight, cigar cutter, and flag stand. No. 61,339; Aug. 8.
 Gould, Herman, Union Hill, N. J. Flat linen. No. 61,620; Oct. 31.
 Gowan, Ida C., San Diego, Calif. Doll. No. 60,491; Feb. 28.
 Gowran, Harry C., assignor to The Hamilton Manufacturing Company, Two Rivers, Wis. Cabinet. No. 61,364; Aug. 15.
 Gowran, Harry C., assignor to The Hamilton Manufacturing Company, Two Rivers, Wis. Table. No. 61,365; Aug. 15.
 Graham, Callie M., Oracle, Ariz. Pin or badge. No. 60,232; Jan. 17.
 Graham, John, assignor to Holbrook Company, New York, N. Y. Vehicle body. No. 60,137; Jan. 3.
 Graham, Robert C., Washington, Ind. Bottle. No. 61,658; Nov. 14.
 Grand Council of the Ladies' Oriental Shrine of North America. (See Chase, Arthur E., assignor.)
 Graves, Salathiel V., McFall, Mo. Mausoleum. No. 60,531; Mar. 7.
 Gray Brothers. (See Gray, Edward E., assignor.)
 Gray, Edward E., assignor to Gray Brothers, Plano, Ill. Emblem, badge, button, or article of similar nature. No. 60,906; Apr. 25.
 Grayson, John H., Athens, Ohio. Gas heater. No. 60,138; Jan. 3.
 Green, Chas., Company. (See Cohen, Harold F., assignor.)
 Greene, Edward J., Toledo, Ohio. Vehicle body for auto stores. No. 60,339; Feb. 7.
 Greene, Frederick E., Mount Vernon, N. Y., assignor to Shepard Art Metal Company, Detroit, Mich. Interior fitting for an automobile body or similar article. No. 61,675; Nov. 21.
 Greenhood, Charlotte, Berkeley, Calif. Doll. Nos. 60,939-40; May 9.
 Greenpoint Metallic Bed Company. (See Lies, William, assignor.)
 Grier, Garrett L., assignor to The L. D. Caulk Company, Milford, Del. Tray for holding dental instruments and supplies. No. 60,340; Feb. 7.
 Griffin Choker Ash Tray, Inc. (See Kenney, Daniel J., assignor.)
 Griffin, Robert, Company, The. (See Knight, Merrill B., assignor.)
 Groner, Samuel. (See Kreiswirth, M., and Groner.)
 Gross, Angus R., Baltimore, Md. Parking light. No. 61,738; Dec. 26.
 Gross Photo Supply Company, The. (See Butler, Silas E., assignor.)
 Grossman, Benjamin H., Providence, R. I. Button. No. 61,093; June 20.
 Grossman, Herman W., New York, N. Y. Lighting-fixture arm. No. 61,499; Sept. 19.
 Grossman, Herman W., New York, N. Y. Lighting fixture. No. 61,500; Sept. 19.
 Gruen, D., Sons & Company. (See Gruen, Frederick G., assignor.)
 Gruen, Frederick G., assignor to The D. Gruen Sons & Company, Cincinnati, Ohio. Watchcase. No. 60,532; Mar. 7.
 Gruen, Frederick G., assignor to The D. Gruen Sons & Company, Cincinnati, Ohio. Wrist-watch case. No. 60,533; Mar. 7.
 Guenthermann, Hans, Mount Vernon, N. Y., assignor to Sebring Pottery Co., Sebring, Ohio. Plate or similar article. No. 61,712; Dec. 12.
 Guinzburg, George K., New York, N. Y., assignor to I. R. Kleinert Rubber Company. Garment protector. No. 60,188; Jan. 10.
 Gunkel, Harry H., Chicago, Ill. Inseam-measuring stick. No. 60,139; Jan. 3.
 Gurnee, Viola G., Newark, N. Y. Candle. No. 61,621; Oct. 31.
 Gustavson, Clarence A., Whitewater, Wis. Toy truck. No. 60,986; May 23.
 Haas, Frank A., New York, N. Y., assignor to M. J. Whittall Associates, Worcester, Mass. Rug. No. 60,233; Jan. 17.
 Hadley, Edmund P. (See Holden, C. C., and Hadley.)
 Hadley, Edmund P., and C. C. Holden, assignors to Royal Comb Company, Leominster, Mass. Bag frame. Nos. 60,234-6; Jan. 17.
 Haines, George T., Omaha, Nebr. Ice-cream cone. No. 61,571; Oct. 24.
 Haley, Reuben, Beaver, Pa. Ash tray. No. 60,788; Apr. 11.
 Haley, Reuben, Beaver, Pa. Automobile headlight lens. No. 61,136; June 27.
 Halinka, George, and G. Santo, Detroit, Mich. Combination brush, comb, and mirror. No. 60,615; Mar. 14.
 Hall, George L., assignor to Clox-Lite Mfg. Company, Inc., Perkasie, Pa. Unitary parking lamp and mirror for vehicles. No. 60,616; Mar. 14.
 Halpern, Meyer, assignor to United Wire Goods Manufacturing Company, New York, N. Y. Tumbler holder. No. 60,534; Mar. 7.
 Hamilton Manufacturing Company, The. (See Gowran, Harry C., assignor.)
 Hammond, William P., Maplewood, N. J. Combination microscope, parking light, and direction indicator. No. 61,195; July 11.
 Hampel, John R., Milwaukee, Wis. Leather. Nos. 60,237-8; Jan. 17.
 Handley, Agnes P., Oakland, Calif. Doll. No. 61,158; July 4.
 Handley, Agnes P., Oakland, assignor to Leroy Alliger, Palo Alto, Calif. Toy rabbit. No. 61,622; Oct. 31.

Alphabetical list of patentees of designs—Continued.

- Hansen, Albert E. (See Dietz, B. H., and Hansen.)
Hansen-Halliburton Mfg. Company. (See Humphrey, Raleigh O., assignor.)
Hanzl & Steinbrenner. (See Steinbrenner, George E., assignor.)
Hapgood, Clarence H., Toledo, Ohio, assignor to Toledo Scale Company, Jersey City, N. J. Weighing scale. No. 60,140; Jan. 3.
Harasym, Joseph, Chicago, Ill. Combined lamp and talking-machine casing. No. 60,864; Apr. 18.
Harden, James, assignor to The Acheson Harden Company, New York, N. Y. Handkerchief, napkin, or similar article of manufacture. Nos. 61,036-9; June 6.
Harden, James, assignor to The Acheson Harden Company, New York, N. Y. Handkerchief, napkin, or similar article of manufacture. Nos. 61,366-9; Aug. 15.
Hargrave, William H., Olney, Oreg. Emblematic badge. No. 61,572; Oct. 24.
Harper, Alfred U. (See Thompson, G. K., and Harper.)
Harris, Albert A., Springfield, Mass. Holder for crochet thread. No. 60,239; Jan. 17.
Harris, Doris C., Mount Vernon, N. Y. Lady's traveling robe. No. 60,341; Feb. 7.
Harris, Godfrey H., New York, N. Y. Poker chip or the like. No. 61,340; Aug. 8.
Harris, William S., Bremerton, Wash. Automobile-radiator ornament. No. 60,492; Feb. 28.
Harrold, Sherman, Hartford City, Ind. Wrist mirror. No. 61,702; Dec. 5.
Haskell, Raymond, Summit, N. J., assignor to The Texas Company, New York, N. Y. Oil can. No. 60,342; Feb. 7.
Hatmaker, William T., assignor to The Protecto Pump Company, Dayton, Ohio. Oil-dispensing device. No. 60,189; Jan. 10.
Havemeyer, Clara H., Springfield, Mass., assignor to Package Paper and Supply Corporation. Paper. No. 60,535; Mar. 7.
Havemeyer, Clara H., Springfield, Mass., assignor to Package Paper and Supply Corporation. Paper. Nos. 60,536-7; Mar. 7.
Havemeyer, Clara H., Springfield, Mass., assignor to Package Paper and Supply Corporation. Ornamental paper. No. 61,040; June 8.
Havemeyer, Clara H., Springfield, Mass., assignor to Package Paper and Supply Corporation. Paper. Nos. 61,389-91; Aug. 22.
Haviland, Theodore, & Co. (See Haviland, William D., assignor.)
Haviland, William D., Limoges, France, assignor to Theodore Haviland & Co., New York, N. Y. Plate or similar article. Nos. 61,439-40; Sept. 5.
Haward, Eric A., Cheswick, London, England, assignor to Witcombe, McGeachin & Co., New York, N. Y. Fabric, paper, or similar article. No. 60,658; Mar. 21.
Hayes, James A., New York, N. Y. Doll. Nos. 61,159-60; July 4.
Heater, Philip H., Bucyrus, Ohio. Tire. No. 60,343; Feb. 7.
Hecht, Earl A., Mansfield, Ohio. Tire tread. No. 60,724; Mar. 28.
Hecht, Earl A., Mansfield, Ohio. Tire tread. No. 61,441; Sept. 5.
Heilhecker, Eugene C., Bristol, R. I., assignor to United States Rubber Company. Sole of a rubber boot or shoe. No. 61,017; May 30.
Heisey, A. H., & Co. (See Sanford, Andrew J., assignor.)
Henley, Bernard J., Detroit, Mich. Measuring instrument for draftsmen's use. No. 60,493; Feb. 28.
Herbert, Carl L., El Reno, Okla. Advertising board. No. 61,341; Aug. 8.
Hermann, Frederick J., assignor to Star Watch Case Co., Ludington, Mich. Watch pendant. No. 60,141; Jan. 3.
Hermann, Frederick J., assignor to Star Watch Case Co., Ludington, Mich. Watchcase. No. 60,142; Jan. 3.
Herod, Joseph, Patchogue, N. Y., assignor to Patchogue-Plymouth Mills Corporation, New York, N. Y. Curtain. Nos. 60,538-40; Mar. 7.
Herzog, Joseph L., New Rochelle, N. Y. Finger ring or similar article. No. 61,573; Oct. 24.
Hibbard, Rhuel B., assignor to Airdry Corporation, Groton, N. Y. Lavatory fixture. No. 60,659; Mar. 21.
Hickok Manufacturing Company. (See Davis, Earl M., assignor.)
Hickok Manufacturing Company, Inc. (See Shields, Lowell W., assignor.)
Hickox, William C., Rochester, N. Y. Bottle for fire extinguishers. No. 60,143; Jan. 3.
Hidalgo, Jose A., Los Angeles, Calif. Dancing animal toy. Nos. 60,541-2; Mar. 7.
Higgs, Percy J., New York, N. Y. Table top. No. 61,659; Nov. 14.
Hightstown Mfg. Co., Inc. (See Shapiro, Barnet, assignor.)
Hill, James D., Scottsdale, Pa. Aviator-operated airplane. No. 61,392; Aug. 22.
Hillbom, Henrik, assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Spoon, fork, or similar article. No. 61,694; Nov. 28.
Hillbom, Henrik, assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Spoon or similar article. No. 61,703; Dec. 5.
Hine, Cicero, assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Phonograph cabinet. No. 61,467; Sept. 12.
Hine, Cicero, assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Phonograph cabinet. No. 61,501; Sept. 19.
Hirschfeld, Morris, Brooklyn, N. Y. Slipper. Nos. 60,660-77; Mar. 21.
Hiss, Henry W., Wyoming, assignor to Tide Water Oil Company, Bayonne, N. J. Advertising device or similar article. No. 61,541; Oct. 17.
Hoelzer, William F., New Brunswick, and J. T. Johnson, Plainfield, N. J. Tire. No. 61,161; July 4.
Hoenig, Franz, assignor to Tobler & Hoenig, New York, N. Y. Embroidery, lace, or article of similar nature. Nos. 60,987-8; May 23.
Hofmann, Edmund, Chicago, Ill. Lamp base or similar article. No. 60,725; Mar. 28.
Hoge Manufacturing Company, The. (See Saunders, William M., assignor.)
Hoge Manufacturing Company, The. (See Terrell, Frank J., assignor.)
Holbrook Company. (See Graham, John, assignor.)
Holden, Crofton C. (See Hadley, E. P., and Holden.)
Holden, Crofton C., and E. P. Hadley, assignors to Royal Comb Company, Leominster, Mass. Bag frame. No. 60,240; Jan. 17.
Hollingshead, William B., Mount Vernon, N. Y. Phonograph cabinet. No. 60,953; May 16.
Holt, Tempe W., Rocky Mount, N. C. Badge. No. 60,344; Feb. 7.
Holzer, Eugene J., assignor to Milwaukee Lace Paper Company, Milwaukee, Wis. Doily. No. 61,739; Dec. 26.
Hood Rubber Company. (See Fritch, Elue O., assignor.)
Hood Rubber Company. (See Glidden, A. A., and Best, assignors.)
Hood Rubber Company. (See Glidden, A. A., and Fritch, assignors.)
Hood Rubber Company. (See Muir, Robert, assignor.)
Hooper, James P., Ruxton, Md. Padding. No. 61,137; June 27.
Hopkins, Frank W. (See Bidwell, Burton O., assignor.)
Hopkins, Frank W. (See Lund, Arthur, assignor.)
Hopkins, Frank W. (See Powers, William H., assignor.)
Hopkins, Frank W., Wilmette, Ill. Toy dog. Nos. 61,302-5; Aug. 1.
Hopping, George L., Pasadena, Calif. Lamp. No. 60,345; Feb. 7.
Hornquist, Frank, Mount Jewett, Pa. Rubber heel. No. 60,954; May 16.
Horological Institute of America. (See Marsh, Edward A., assignor.)
Horsman, E. I., & Aetna Doll Co. (See Goldenberg, Benjamin, assignor.)
Horsman, E. I., & Aetna Doll Co. (See Trowbridge, Helen F., assignor.)
Howe, Francis G., Melrose, Mass. Broom holder. No. 61,162; July 4.
Hubbard, Arthur O., Minneapolis, Minn. Clothes wringer. No. 60,144; Jan. 3.
Hufnagel, Joseph, Portland, Oreg. Emblematic stand. No. 61,704; Dec. 5.
Hull, John, Coatesville, Pa. Advertising device. No. 60,145; Jan. 3.
Humphrey, Clen S., Brooklyn, N. Y. Powder container. No. 60,190; Jan. 10.
Humphrey, Clen S., Brooklyn, N. Y. Powder container. No. 61,442; Sept. 5.
Humphrey, Hubert R., Kalamazoo, Mich. Gas heater. Nos. 60,241-6; Jan. 17.
Humphrey, Hubert R., Kalamazoo, Mich. Gas stove. No. 60,543; Mar. 7.
Humphrey, Hubert R., Kalamazoo, Mich. Gas heater. No. 60,955; May 16.
Humphrey, Hubert R., Kalamazoo, Mich. Gas heater. No. 60,989; May 23.
Humphrey, Raleigh O., assignor to Hansen-Halliburton Mfg. Company, Chicago, Ill. Oil stove. No. 60,750; Apr. 4.
Humphreys, Charles F., Lancaster, assignor to Armstrong Cork Company, Pittsburgh, Pa. Linoleum, oilcloth, or floor covering. Nos. 60,402-11; Feb. 14.
Humphreys, Charles F., Lancaster, assignor to Armstrong Cork Company, Pittsburgh, Pa. Linoleum, oilcloth, or floor covering. Nos. 60,678-82; Mar. 21.
Humphreys, Harry S., Lancaster, assignor to Armstrong Cork Company, Pittsburgh, Pa. Linoleum, oilcloth, or floor covering. Nos. 60,412-15; Feb. 14.
Hunton, William G., London, England, assignor to Witcombe, McGeachin & Co., New York, N. Y. Textile fabric or article of similar nature. No. 60,146; Jan. 3.
Hutchens, Ralph W., Eau Claire, Wis., and S. P. Woodward, New York, N. Y., assignors to Stanwood Rubber Company, Newark, N. J. Tire tread or similar article. No. 60,927; May 2.
Hutton, Ida E. (See Scheppach, A. W., Hutton, and Reeks.)
Icy-Hot Bottle Company, The. (See Altenberg, George P., assignor.)
India Tire and Rubber Company. (See Worth, Paul, assignor.)
Inflexible Co. (See Aemissegger, Jean, assignor.)
Inflexible Co. (See Schwarber, Henry, assignor.)
Ingalls, James S., Minneapolis, Minn. Headlight lens. No. 60,751; Apr. 4.

- Ingelsky, Albert, Buffalo, N. Y. Plaque. No. 60,454; Feb. 21.
- Ingraham, Corinne. (See Duryea, M. P., and Ingraham.)
- International Silver Company. (See Kintz, Alfred G., assignor.)
- Iredell, Robert, assignor to The General Tire and Rubber Company, Akron, Ohio. Tire tread. No. 61,695; Nov. 28.
- Iron Products Corporation. (See Molby, Edgar C., assignor.)
- Israel, Sidney M., Richmond Hill, N. Y. Lamp. No. 60,907; Apr. 25.
- Israel, Sidney M., Richmond Hill, N. Y. Combined lamp stand and smoking set. No. 61,018; May 30.
- Israel, Sidney M., Richmond Hill, N. Y. Chandelier. No. 61,644; Nov. 7.
- Israel, Sidney M., Richmond Hill, N. Y. Frame ring for electric lamps. No. 61,545; Nov. 7.
- Israel, Sidney M., Richmond Hill, N. Y. Spindle for electric-light fixtures. No. 61,646; Nov. 7.
- Israel, Sidney M., Richmond Hill, N. Y. Bottom plate for electric-light fixtures. No. 61,647; Nov. 7.
- Issing, St. John, assignor to Anna Lederer, New York, N. Y. Lamp. No. 60,726; Mar. 28.
- Jacobs, Ira, San Francisco, Calif. Candy bar. No. 60,147; Jan. 3.
- Jacobs, Oscar E., assignor to Kerr Manufacturing Company, Detroit, Mich. Toy target. No. 60,291; Jan. 24.
- Jacobson, Lester H. (See Blaydes, William F., Jr., assignor.)
- Jacoby, Charles N., assignor to Richardson Corporation, Rochester, N. Y. Dispensing faucet. No. 60,416; Feb. 14.
- Jaffe, Simon, Montreal, Quebec, Canada. Memorandum stand. No. 61,163; July 4.
- James, Sidney V., Niagara Falls, N. Y., assignor to William A. Rogers, Limited. Spoon or similar article. No. 61,676; Nov. 21.
- Janicki, William, Chicago, Ill. Christening card. No. 60,990; May 23.
- Jarman, George R., Baltimore, Md. Refrigerating-machine casing or frame. No. 61,094; June 20.
- Javal, Fernand, Paris, France. Paper or similar article. No. 61,270; July 25.
- Javal, Fernand, Paris, France. Paper or similar article. No. 61,413; Aug. 29.
- Jeannette Glass Company. (See Ambler, Isaac, assignor.)
- Jenkins, Alexander F., Baltimore, Md. Welding torch. No. 60,346; Feb. 7.
- Jenkins, Charles E., Washington, D. C. Gaiter. Nos. 60,683-4; Mar. 21.
- Jensen, Walter E., Los Angeles, Calif. Combination motor casing and supporting stand. No. 60,865; Apr. 18.
- Jergens, Andrew, Company, The. (See Resor, Stanley, assignor.)
- Jimenez, Fernando, Manila, Philippine Islands. Indicator. No. 60,617; Mar. 14.
- Jiraneck, Otto A., Grand Rapids, Mich., assignor to Sears, Roebuck and Co., Chicago, Ill. Sewing-machine cabinet. No. 60,789; Apr. 11.
- Jobin, Silvio, Montreal, Quebec, Canada. Statuette. No. 61,138; June 27.
- John, Alfred L., New York, N. Y. Brush. No. 60,941; May 9.
- Johnson, August, Mankato, Minn. Smoker's stand. No. 61,393; Aug. 22.
- Johnson, Axel E., Muskegon, Mich. Step tread. No. 60,495; Feb. 28.
- Johnson, Chris, Portland, Oreg. Tombstone. No. 60,685; Mar. 21.
- Johnson, Delmar L., St. Louis, Mo. Signal lens plate. No. 61,443; Sept. 5.
- Johnson, Frederick H., East Greenwich, R. I. Button, badge, emblem, pin, or article of similar nature. No. 61,306; Aug. 1.
- Johnson, John T. (See Hoelzer, W. F., and Johnson.)
- Johnson, John T., Plainfield, N. J., assignor to O. J. Kuhlke, Akron, Ohio. Tire. No. 61,164; July 4.
- Johnstone, Claude, St. Louis, Mo. Bottle. No. 61,196; July 11.
- Jones, Martin, San Diego, Calif. Writing pen. No. 61,041; June 6.
- Jones, Pearl N., assignor to C. A. Fagan, W. D. George, and S. L. Tone, receivers of The Pittsburgh Railways Company, Pittsburgh, Pa. Fare token. No. 60,544; Mar. 7.
- Jones & Woodland Company. (See Blindt, William E., assignor.)
- Jorgensen, Jorgen P. L., Omaha, Nebr. Building block. No. 60,148; Jan. 3.
- Joseph, Henry, assignor to Joseph Sanitary Rug Company, Milwaukee, Wis. Rubber mat. No. 61,042; June 6.
- Joseph Sanitary Rug Company. (See Joseph, Henry, assignor.)
- Judd, H. L., Company. (See Dlouhy, August, assignor.)
- Juthe, John C., Allston, Mass. Wheeled toy. No. 60,956; May 16.
- Kaempfer, Joseph G., New York, N. Y. Statue doll. No. 61,139; June 27.
- Kahn, Geneva, Kirksville, Mo. Combined pin and hairpin holder. No. 61,307; Aug. 1.
- Kahn, Joseph C., and S. W. Mills, Portland, Oreg. Finger ring. No. 61,623; Oct. 31.
- Kahnweiler, Sidney B., Atlantic City, N. J. Tweezers. No. 60,455; Feb. 21.
- Kahookano, John K., Rawlins, Wyo. Tobacco pipe. No. 61,660; Nov. 14.
- Kardash, Stephen, Milford, Mass. Rotary toy. No. 60,686; Mar. 21.
- Karfol, Edward, Brooklyn, N. Y. Shelf paper. No. 61,370; Aug. 15.
- Karpen, Joseph O., Nutley, N. J. Toy balloon. No. 60,908; Apr. 25.
- Katke, Thomas C., assignor to Bunde & Upmeyer Co., Milwaukee, Wis. Badge, button, charm, emblem, pin, or article of similar nature. No. 61,197; July 11.
- Katz, Clara, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 60,545-6; Mar. 7.
- Katz, Clara, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 60,790; Apr. 11.
- Katz, Leon, New York, N. Y. Shoe-shining cabinet. No. 61,661; Nov. 14.
- Kaufman, Ida, Atlantic City, N. J. Candy boat. No. 61,043; June 6.
- Keesee, Wesley E., Los Angeles, Calif. Lubricant-dispensing apparatus. No. 61,468; Sept. 12.
- Keller, George J., Newark, N. J. Watchcase. No. 61,696; Nov. 28.
- Kellogg, Edmund P., assignor to Albert Pick & Company, Chicago, Ill. Menu cover. No. 61,624; Oct. 31.
- Kellogg, Edmund P., assignor to Albert Pick & Company, Chicago, Ill. Napkin. No. 61,625; Oct. 31.
- Kellogg, Edmund P., assignor to Albert Pick & Company, Chicago, Ill. Fan. No. 61,648; Nov. 7.
- Kelsey, Harry W., and W. H. Baer, assignors to The Russell Manufacturing Company, Middletown, Conn. Box cover. Nos. 61,308-10; Aug. 1.
- Kelsey, Harry W., and W. H. Baer, assignors to The Russell Manufacturing Company, Middletown, Conn. Carton. No. 61,311; Aug. 1.
- Kenney, Daniel J., Drexel Hill, assignor to Griffin Choker Ash Tray, Inc., Philadelphia, Pa. Ash tray. No. 61,662; Nov. 14.
- Kenyon, C., Company. (See Mitchell, Harold D., assignor.)
- Keogh, Anthony, assignor to The Chaney Manufacturing Company, Springfield, Ohio. Thermometer. No. 61,414; Aug. 29.
- Kerby, Isabella, East Helena, Mont. Pig doll. No. 61,198; July 11.
- Kerekes, Armand, New York, N. Y. Clock. No. 61,574; Oct. 24.
- Kerlow Steel Flooring Co. (See Lown, Walter H., assignor.)
- Kerus, John R., Covington, Ky. Lamp. No. 60,687; Mar. 21.
- Kerr Manufacturing Company. (See Jacobs, Oscar E., assignor.)
- Kersten, Samuel, Chicago, Ill. Faucet. No. 60,347; Feb. 7.
- Kidder, Imogene, and L. Melton, Portland, Oreg. Doll. No. 61,469; Sept. 12.
- Kieffer, Valley M., Buffalo, N. Y. Doll. No. 60,727; Mar. 28.
- Kieffer, Valley M., Buffalo, N. Y. Doll. No. 61,697; Nov. 28.
- King, John Y., Lansdowne, Pa. Air-feeding device for stoves and other coal-burning appliances. No. 60,149; Jan. 3.
- Kintz, Alfred G., Wallingford, assignor to International Silver Company, Meriden, Conn. Handle for spoons, forks, or similar articles. No. 60,348; Feb. 7.
- Kintz, Alfred G., Wallingford, assignor to International Silver Company, Meriden, Conn. Spoon or similar article. No. 61,576; Oct. 24.
- Kittleman, Eva, Council Bluffs, Iowa. Doll. No. 61,626; Oct. 31.
- Klase, James L., Cranford, A. P. McGrann and J. J. Bach, Elizabeth, N. J. Smoker's tray. No. 60,349; Feb. 7.
- Kleidman, Joseph, New York, N. Y. Temperature indicator for radiators of automobiles. No. 60,417; Feb. 14.
- Klein, August, Camden, N. J. Finger ring. Nos. 60,456-7; Feb. 21.
- Klein, Benjamin F. (See Pfeager, Roscoe C., assignor.)
- Klein, Joseph L., St. Louis, Mo. Jug. No. 61,415; Aug. 29.
- Kleinert, I. B., Rubber Company. (See Guinzburg, George K., assignor.)
- Kleinfield, Irving F., New York, N. Y. Bowl. No. 61,663; Nov. 14.
- Kleinman, Samuel, Los Angeles, Calif. Pin, brooch, bracelet, finger ring, or article of similar nature. No. 60,791; Apr. 11.
- Kleinman, Samuel, Los Angeles, Calif. Pin, brooch, bracelet, finger ring, or article of similar nature. No. 60,991; May 23.
- Klenk, Charles, Englewood, N. J., assignor to The Palm Brothers Company, New York, N. Y. Plate or similar article. No. 60,688; Mar. 21.
- Klenk, Charles, Englewood, N. J., assignor to The Palm Brothers Company, New York, N. Y. Plate or similar article. No. 61,044; June 6.
- Knapp, Sidney M., New York, N. Y. Duplex socket for electric lamps. No. 60,350; Feb. 7.
- Knezel, Harry C., New York, N. Y. Badge. No. 60,150; Jan. 3.

Alphabetical list of patentees of designs—Continued.

- Knight, Merrill B., Ozone Park, N. Y., assignor to The Robert Griffin Company. Wall paper. No. 61,575; Oct. 24.
- Knight, Minnie, assignor of one-half to C. W. Dorlon, Los Angeles, Calif. Doll. No. 60,689; Mar. 21.
- Knudsen, Harry M., St. Paul, Minn. Lamp. No. 60,618; Mar. 14.
- Kodama, Hisano. (See Kodama, Seizo, assignor.)
- Kodama, Seizo, assignor of one-half to H. Kodama, San Francisco, Calif. Doll. No. 60,957; May 16.
- Koehler, Otto. (See Ross, H. A., and Koehler.)
- Koenig, Mary, New York, N. Y. Doll. No. 60,690; Mar. 21.
- Kopperud, Arthur, Milwaukee, Wis. Radiator cap. No. 61,698; Oct. 28.
- Kotato, Teiji, assignor to Morimura Bros., Inc., New York, N. Y. Plate or similar article. Nos. 61,227-41; July 18.
- Kotato, Teiji, assignor to Morimura Bros., Inc., New York, N. Y. Plate or similar article. No. 61,342; Aug. 8.
- Kozlay, Clarence V., assignor to Sidney Blumenthal & Co., Inc., New York, N. Y. Pile fabric. No. 61,677; Nov. 21.
- Kraft, Louis E. (See Brown, J. C., and Kraft.)
- Kramer, Charles, Carbondale, Wash. Collar. No. 60,619; Mar. 14.
- Kranz, Isidore, New York, N. Y. Lighting fixture. Nos. 60,458-62; Feb. 21.
- Kreiser, Jacques, New York, N. Y. Finger ring. No. 60,418; Feb. 14.
- Kreiser, Jacques, New York, N. Y. Finger ring. No. 60,495; Feb. 28.
- Kreiswirth, Morris, and S. Groner, New York, N. Y. Finger ring. Nos. 60,909-10; Apr. 25.
- Kres, Charles, Cleveland, Ohio, assignor to The Forman Bassett Company. Safety paper. Nos. 61,165-6; July 4.
- Kres, Charles, Cleveland, Ohio, assignor to The Forman Bassett Company. Safety paper. No. 61,199; July 11.
- Krieg, John C., and F. Fishbaugh, Newark, Ohio. Rubber heel. No. 61,519; Sept. 26.
- Kronburger, Stephen, Jersey City, N. J., assignor to Cohan-Epner Co. Inc., New York, N. Y. Combination ash tray and match-box holder. No. 61,343; Aug. 8.
- Kronburger, Stephen, Jersey City, N. J., assignor to Cohan-Epner Co. Inc., New York, N. Y. Combination ash tray and match receptacle. No. 61,416; Aug. 29.
- Kronburger, Stephen, Jersey City, N. J., assignor to Cohan-Epner Co. Inc., New York, N. Y. Ash tray. No. 61,470; Sept. 12.
- Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 60,792-4; Apr. 11.
- Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 61,271; July 25.
- Kuchtik, Constantine J., Chicago, Ill. Watchcase. No. 60,866; Apr. 18.
- Kuczynski, Lucyan, Los Angeles, Calif. Picture frame. No. 60,247; Jan. 17.
- Kuh, Louis, San Francisco, Calif. Child's garment. No. 60,958; May 16.
- Kuhle, Otto J. (See Johnson, John T., assignor.)
- Kuno, Richard, New York, N. Y. Button. No. 61,095; June 20.
- Kurfess, Alexander W., assignor to J. W. Mashburn, Kansas City, Mo. Doll or statuette. No. 61,167; July 4.
- Lackner, John, Long Island City, N. Y. Novelty cap. No. 60,795; Apr. 11.
- Landers, Frary & Clark. (See Curtiss, George E., assignor.)
- Landers, Frary & Clark. (See Smith, Charles F., assignor.)
- Lane, James H., assignor to United Drug Company, Boston, Mass. Medicinal tablet or similar article. No. 60,248; Jan. 17.
- Langenegger, John, assignor to Blanck & Company, New York, N. Y. Lace. No. 61,200; July 11.
- Large, Samuel J., assignor to The American Silver Company, Bristol, Conn. Handle for a spoon, fork, or similar article. No. 60,752; Apr. 4.
- Larsen, Ralph B., Quincy, Mass. Toy. No. 61,542; Oct. 17.
- Lavell, Lulu V., Minneapolis, Minn. Candle holder. No. 61,627; Oct. 31.
- Lazerus, Joseph, Philadelphia, Pa. Swivel confection rack. No. 61,168; July 4.
- Leavenworth, Seth H., assignor to The Van Bergh Silver Plate Company, Rochester, N. Y. Candelabrum. Nos. 60,351-4; Feb. 7.
- Lebau, Louis, Pittsburgh, Pa. Top for gas stoves. No. 60,151; Jan. 3.
- Lebzelter, William F., assignor to The Century Manufacturing Company, Inc., Elizabethtown, Pa. Toy glider. No. 60,728; Mar. 28.
- Lederer, Anna. (See Issing, St. John, assignor.)
- Ledig, Richard G., assignor to A. Mecky Company, Philadelphia, Pa. Electric heater. No. 60,152; Jan. 3.
- Lehman, William C., Cannelton, Ind. Roundabout. No. 60,191; Jan. 10.
- Leiper, John, assignor to New York Mills Corporation, New York Mills, N. Y. Cotton piece goods. No. 67,577; Oct. 24.
- Lemon, Alfred B., Providence, R. I. Charm. No. 61,096; June 20.
- Leppelman, Alpha, Glendale, Calif. Dress. No. 60,249; Jan. 17.
- Lester, John E., Seattle, Wash. Manikin. No. 61,471; Sept. 12.
- Levine, Louis, Brooklyn, N. Y. Lighting-fixture arm. No. 60,959; May 16.
- Levine, Louis, Brooklyn, N. Y. Lighting-fixture arm. No. 61,201; July 11.
- Levy, David, New York, N. Y. Baby-crib cover. No. 61,472; Sept. 12.
- Levy, Isaac, Brooklyn, N. Y. Ceiling plate. No. 61,097; June 20.
- Liberfreund, Nathan, Passaic, N. J. Charm. No. 60,928; May 2.
- Lies, William, assignor to Greenpoint Metallic Bed Company, Brooklyn, N. Y. End frame for a bedstead. Nos. 60,729-30; Mar. 28.
- Lightfoot, Liles H., Signal Mountain, assignor to Du Bois Rubber & Tube Company, Chattanooga, Tenn. Tire tread. No. 60,753; Apr. 4.
- Lightoller Company. (See Dahl, Thure, assignor.)
- Lincrusta-Walton Company. (See Abolin, Harry T., assignor.)
- Lindemann, Robert F., assignor to Alfred Vester Sons, Inc., Providence, R. I. Husk for lighting fixtures. No. 60,463; Feb. 21.
- Lindner, Harold H., assignor to Montague & Co. Inc., New York, N. Y. Valance. No. 61,272; July 25.
- Lindquist, Charles A. (See Lindquist, Erick V. and C. A.)
- Lindquist, Erick V., Des Moines, Ia., and C. A., New Auburn, Wis., assignor to Qupee Hose Supporter Company, Eau Claire, Wis. Garment stud. No. 60,292; Jan. 24.
- Linko Motor Association. (See Smith, De Lancy W., assignor.)
- Lion Electric Appliance Co. Inc. (See Ohm, Albert J. D., assignor.)
- Lipes, John M., Dayton, Ohio. Fishing reel. No. 60,867; Apr. 18.
- Lipscomb, Junious A., Baltimore, Md. Lamp. No. 61,502; Sept. 19.
- Lohl, Max, and R. Steinberger, New York, N. Y. Ornamentation of gloves. Nos. 60,547-52; Mar. 7.
- Lockwood, Catharine B., Washington, D. C. Toy doll. No. 61,273; July 25.
- Loewenthal Farber Katz Co. (See Meyers, Edward G., assignor.)
- London, Louis B., New York, N. Y. Globe for lighting fixtures. No. 61,202; July 11.
- Loomis, Harry A., San Jose, Calif. Balloon toy. Nos. 60,553-4; Mar. 7.
- Loopo, Jacob, Brooklyn, N. Y. Venice lace. No. 60,691; Mar. 21.
- Lopez, Moree F., Los Angeles, Calif. Doll. No. 60,911; Apr. 25.
- Lord, Charles E., Tarrytown, N. Y. Textile fabric. Nos. 61,578-88; Oct. 24.
- Lord, Charles E., Tarrytown, N. Y. Textile fabric. Nos. 61,678-86; Nov. 21.
- Lord, Charles E., Tarrytown, N. Y. Textile fabric. Nos. 61,740-2; Dec. 26.
- Lorenzo, Theresa M., Bridgeport, Conn. Knitted fabric. No. 60,868; Apr. 18.
- Lo Verde, John, and A. Tubiolo, assignors of one-seventh to C. J. Mondo, Rochester, N. Y. Child's vehicle. No. 60,250; Jan. 17.
- Lown, Walter H., assignor to Kerlow Steel Flooring Co., Jersey City, N. J. Grating. No. 61,046; June 6.
- Lown, Walter H., assignor to Kerlow Steel Flooring Co., Jersey City, N. J. Grating. No. 61,098; June 20.
- Lowy, Felix, assignor to The Palmolive Company, Milwaukee, Wis. Carton. No. 61,371; Aug. 15.
- Lucas, James M., Philadelphia, Pa. Incense burner. No. 61,140; June 27.
- Ludlow, George M., Evanston, assignor to Sanitary Scale Company, Chicago, Ill. Computing scale. No. 61,394; Aug. 22.
- Lund, Arthur, Chicago, assignor to F. W. Hopkins, Wilmette, Ill. Toy dog. Nos. 61,312-15; Aug. 6.
- Lutsky, Bernard, Brooklyn, assignor to J. S. Tuttmann, New York, N. Y. Combined nutcracker and bottle opener. No. 60,929; May 2.
- Lyndon, Claude, Montreal, Quebec, Canada, assignor to G. A. Lyndon. Lamp. No. 61,418; Aug. 29.
- Lyndon, Gertrude A. (See Lyndon, Claude, assignor.)
- Lyon, Allen A., Belvidere, Ill. Bird bath. No. 60,912; Apr. 25.
- Lyon, Allen A., Belvidere, Ill. Flower box. No. 60,913; Apr. 25.
- Lyon, Allen A., Belvidere, Ill. Vase. No. 61,169; July 4.
- Lyon, Helena A., Toledo, Ohio. Doll. No. 60,869; Apr. 18.
- Lytle, Magnolia B., Nashville, Tenn., assignor of one-third to W. A. Edwards, Birmingham, Ala. Stand for an electric iron. No. 60,153; Jan. 3.
- Mabey, Charles W., Indianapolis, Ind. Vending-machine casing. No. 61,589; Oct. 24.
- Macdonald, Margaret, Davenport, Iowa. Choo-choo car. No. 60,870; Apr. 18.
- MacDowell, Sidney M., assignor to Girl Scouts, Incorporated, New York, N. Y. Scarfpin, button, badge, or article of similar nature. No. 60,731; Mar. 28.
- Mace, John E., New York, N. Y. Jar. No. 61,047; June 6.
- MacEocagain, Liam R., New York, N. Y. Statue or statuette. No. 61,687; Nov. 21.

- MacKay, Frances, Norwalk, Conn. Boy's suit. No. 60,942; May 9.
- MacLachlan, Lachlan, Grand Rapids, Mich., assignor to Cheney Talking Machine Company, Chicago, Ill. Phonograph cabinet. No. 61,203; July 11.
- MacMillen, William C., Beaver, Pa. Name plate for oil-dispensing apparatus. No. 61,713; Dec. 12.
- Macomber, Lewis E., New York, N. Y., assignor to Seth Thomas Clock Co., Thomaston, Conn. Clock case. Nos. 60,960-1; May 16.
- Macomber, Lewis E., New York, N. Y., assignor to Seth Thomas Clock Co., Thomaston, Conn. Clock case. No. 61,170; July 4.
- McConnell, Frank, et al. (See Banker, Daniel G., assignor.)
- Maddock Pottery Company. (See May, Charles A., assignor.)
- Maerz, Frederick K., assignor to The Morreau Company, Cleveland, Ohio. Lighting fixture. No. 61,141; June 27.
- Maerz, Frederick K., assignor to The Morreau Company, Cleveland, Ohio. Frame for lighting fixtures. No. 61,142; June 27.
- Mage, William H., Wheeling, W. Va. Candlestick. No. 61,543; Oct. 17.
- Maier, John A., London, assignor to The Erasmic Company, Limited, Warrington, England. Bottle. No. 61,503; Sept. 19.
- Maier, Wilhelm, Villingen, Germany. Combination clock and music box. No. 61,419; Aug. 29.
- Maislow, Edward, New York, N. Y. Picture frame. No. 60,355; Feb. 7.
- Majewski, Chester, Chicago, Ill. Novelty clock. No. 60,796; Apr. 11.
- Makay, Steve, Cleveland, Ohio. Musical instrument. No. 61,688; Nov. 21.
- Malone, Annie M., St. Louis, Mo. Sealing tape. No. 60,962; May 16.
- Malone, Louis J., Riverside, N. J. Fraternal emblem, medallion, badge, button, pin, or article of similar nature. No. 61,048; June 6.
- Mann, William L., New York, N. Y. Badge, pin, button, or a similar article of manufacture. No. 61,204; July 11.
- Mantol, Frank, Connellsville, Pa. Ice-cream cone. No. 60,154; Jan. 3.
- Marble, William B., Los Angeles, Calif., assignor to Southern Glass Company. Bottle. Nos. 60,555-7; Mar. 7.
- Marchus, Amos S., Oakland, Calif. Display holder. No. 60,464; Feb. 21.
- Marks, Horace S., Stanmore, Sydney, New South Wales, Australia. Necktie holder. No. 60,155; Jan. 3.
- Marquette, Melvon A., Chicopee Falls, Mass. Tire. No. 60,692; Mar. 21.
- Marr, George M., Philadelphia, Pa. Protective cap. No. 60,356; Feb. 7.
- Marra, Ciriaco, Middletown, Conn. Rocking chair. No. 60,621; Mar. 14.
- Marsh, Edward A., Newton, Mass., assignor to Horological Institute of America, Washington, D. C. Seal, medallion, button, and scarf pin. No. 60,992; May 23.
- Martin, Chris A., Los Angeles, Calif. Telephone cabinet. No. 61,444; Sept. 5.
- Marvet, Henri, assignor to J. J. Sweeney Jewelry Co., Houston, Tex. Aviator's badge. No. 61,445; Sept. 5.
- Mashburn, John W. (See Kurfuss, Alexander W., assignor.)
- Mashburn, John W. (See Sisk, George W., assignor.)
- Mason, Herbert T., North Brookfield, assignor to Quabang Rubber Company, Brookfield, Mass. Sole. No. 61,473; Sept. 12.
- Mason, Herbert T., North Brookfield, assignor to Quabang Rubber Company, Brookfield, Mass. Heel. No. 61,474; Sept. 12.
- Mason, James B., Jr., Nashville, Tenn. Case for pencils. No. 60,192; Jan. 10.
- Mason, James B., Jr., Nashville, Tenn. Display case for pencils. No. 60,193; Jan. 10.
- Mather, George L., Milwaukee, Wis., assignor, by mesne assignments, to The Fisk Rubber Company, Chicopee Falls, Mass. Tire. No. 60,620; Mar. 14.
- Mathieu, Frederick W. (See Strahan, G. V., and Mathieu.)
- May, Charles A., assignor to Maddock Pottery Company, Trenton, N. J. Plate or similar article. No. 61,099; June 20.
- Mayer, Fred G., assignor to Starr Piano Company, Richmond, Ind. Phonograph table. No. 61,344; Aug. 8.
- Mayer, Joseph, Seattle, Wash. Emblem, badge, button, pin, watchcase, or article of similar nature. No. 60,251; Jan. 17.
- Mayer, Joshua W., New York, N. Y. Ring or similar article. No. 60,252; Jan. 17.
- Mayer, Joshua W., New York, N. Y. Ring or similar article. No. 60,559; Mar. 7.
- Mayer, Joshua W., New York, N. Y. Ring or similar article. No. 60,797; Apr. 11.
- Mayer, Joshua W., New York, N. Y. Ring or similar article. Nos. 60,914-15; Apr. 25.
- Mayer, Joshua W., New York, N. Y. Ring or similar article. Nos. 61,171-2; July 4.
- Mayer, Joshua W., New York, N. Y. Ring or similar article. No. 61,274; July 25.
- Mayer, Joshua W., New York, N. Y. Ring or similar article. No. 61,319; Aug. 1.
- Mayer, Joshua W., New York, N. Y. Ring or similar article. No. 61,372; Aug. 15.
- McCaskill, Maud E., Los Angeles, Calif. Hat. No. 60,754; Apr. 4.
- McCloskey, James F., assignor, by mesne assignments, to Ford & Manion, Wilmington, Del. Electric immersion heater. No. 60,496; Feb. 28.
- McConkey, Mabel I., Chicago, Ill. Incense burner. No. 60,798; Apr. 11.
- McConville, Edward, Philadelphia, Pa. Building brick. No. 60,253; Jan. 17.
- McCorkle, Donald H., Oakland, Calif. Gas heater. No. 61,395; Aug. 22.
- McDonough, Richard J., Cleveland, Ohio. Signal-lamp casing. No. 60,420; Feb. 14.
- McDowell, Frank E., Louisville, Ky. Toy. No. 60,799; Apr. 11.
- McFaddin, Harrison D., East Orange, N. J. Lamp shade, globe, or similar article. No. 61,242; July 18.
- McGrann, Albert P. (See Klase, J. L., McGrann, and Bach.)
- McGregor, Allan L., Chicago, Ill. Radiator cap. No. 60,871; Apr. 18.
- McKee Glass Company. (See Totten, Robert D., assignor.)
- McKagney, Francis A., Wilmington, Del. Tobacco pipe. No. 61,100; June 20.
- McManus, George, assignor to Embee Distributing Company, New York, N. Y. Game board. No. 60,357; Feb. 7.
- McManus, George, assignor to Embee Distributing Company, New York, N. Y. Spinning card. No. 60,358; Feb. 7.
- Mecham, Benjamin E., Lorain, Ohio, assignor to American Stove Company, St. Louis, Mo. Oven. No. 60,359; Feb. 7.
- Mecky, A., Company. (See Ledig, Richard G., assignor.)
- Medén, Eloy H., Short Hills, assignor to American Gas-accumulator Company, Elizabeth, N. J. Traffic signal. No. 60,293; Jan. 24.
- Meell, George A., assignor to Bailey, Banks & Biddle Co., Philadelphia, Pa. Glass ring. No. 61,446; Sept. 5.
- Megibow, Abraham, West New York, N. J. Lace. No. 60,254; Jan. 17.
- Meier, George, Caldwell, N. J., assignor to M. Eisenberg & Son, New York, N. Y. Lighting fixtures. No. 61,664; Nov. 14.
- Meier, George, Caldwell, N. J., assignor to M. Eisenberg & Son, New York, N. Y. Lighting fixture. No. 61,743; Dec. 26.
- Meier, George, Caldwell, N. J., assignor to M. Eisenberg & Son, New York, N. Y. Panel for lighting fixtures. No. 61,744; Dec. 26.
- Melton, Lenna. (See Kidder, I., and Melton.)
- Merriam, Charles F., San Antonio, Tex. Photographic mount. No. 61,714; Dec. 12.
- Messina, Lucy, Wilmington, Del. Knitted fabric. No. 61,590; Oct. 24.
- Meyer, Frank, Lakewood, Ohio, assignor to The Forman Bassett Company. Safety paper. Nos. 61,173-4; July 4.
- Meyer, Frank, Lakewood, Ohio, assignor to The Forman Bassett Company. Safety paper. No. 61,205; July 11.
- Meyer, Frank, Lakewood, Ohio, assignor to The Forman Bassett Company. Safety paper. No. 61,275; July 25.
- Meyers, Edward G., Passaic, N. J., assignor to Loewenthal Farber Katz Co., Chicago, Ill. Mattress ticking or similar article of manufacture. No. 60,930; May 2.
- Meyers, Edward G., Passaic, N. J., assignor to Loewenthal Farber Katz Co., Chicago, Ill. Mattress ticking or similar article of manufacture. No. 60,931; May 2.
- Meyers, Edward G., Passaic, N. J., assignor to M. Binkovitz & Son, New York, N. Y. Mattress ticking or similar article of manufacture. No. 61,049; June 6.
- Michalski, Joseph J. (See Michalski, Leon S., assignor.)
- Michalski, Leon S., assignor of one-half to J. J. Michalski, Buffalo, N. Y. Candy. No. 61,520; Sept. 26.
- Miffin, Merwin T., Duquoin, Ill. Doll, statuette, or similar article. No. 61,316; Aug. 1.
- Miles, Frank J. M., assignor to Cheramy, Inc., New York, N. Y. Paper or similar article of manufacture. No. 61,475; Sept. 12.
- Milbening, Frank, Evanston, assignor to J. Milbening, Inc., Chicago, Ill. Finger ring. No. 61,050; June 6.
- Milbening, J., Inc. (See Milbening, Frank, assignor.)
- Miller, Bertram L., Cleveland, Ohio, assignor to Peerless Mfg. Company, Louisville, Ky. Heater. No. 60,255; Jan. 17.
- Miller, Edward & Company. (See Wolter, Herman H., assignor.)
- Miller Rubber Company. (See Ofensend, Chase F., assignor.)
- Miller, William H., assignor to Cheney Talking Machine Company, Chicago, Ill. Phonograph cabinet. No. 61,345; Aug. 8.
- Miller and Pardee, Inc. (See Pardee, H. S., Dewire, and Suporter, assignors.)
- Milligan, W. A., and Company. (See Riexinger, Gustav, assignor.)
- Millington, William, Grand Rapids, Mich., assignor to The Aeolian Company. Cabinet for phonographs. Nos. 61,591-7; Oct. 24.
- Mills, Grace F., Buffalo, N. Y. Doll. No. 60,693; Mar. 21.
- Mills, Sidney W. (See Kahn, J. C., and Mills.)
- Milwaukee Lace Paper Company. (See Holzer, Eugene J., assignor.)

Alphabetical list of patentees of designs—Continued.

- Minoff, Charles, Brooklyn, N. Y. Paper weight. No. 60,872; Apr. 18.
- Minton, Gustave M., New York, N. Y. Smoker's stand. No. 60,194; Jan. 10.
- Minton, Gustave M., New York, N. Y. Smoker's tray. No. 60,195; Jan. 10.
- Minton, Gustave M., New York, N. Y. Smoker's tray. Nos. 60,196-8; Jan. 10.
- Minton, Gustave M., New York, N. Y. Match and cigarette holder for smokers' sets. No. 60,199; Jan. 10.
- Minton, Gustave M., New York, N. Y. Smoker's tray. No. 60,200; Jan. 10.
- Mintz, Harry, Boston, Mass. Hammock. No. 60,963; May 16.
- Mitchell, Harold D., assignor to C. Kenyon Company, Brooklyn, N. Y. Tire tread. Nos. 61,243-5; July 18.
- Mitchell, Harold D., assignor to C. Kenyon Company, Brooklyn, N. Y. Tire tread. No. 61,396; Aug. 22.
- Mitchell Vance Co. (See Strahan, G. V., and Mathieu, assignors.)
- Mitchell, Verda, Zapata, Tex. Motor vehicle. No. 60,916; Apr. 25.
- Mitz, Jacob, Springhill, Nova Scotia, Canada. Inkwell. No. 60,498; Feb. 28.
- Model Mills Company. (See Fauser, Gustave M., assignor.)
- Moeran, Amy S., New York, N. Y. Game. No. 60,694; Mar. 21.
- Mohrmann, Paul, assignor to Friedley-Voshardt Co., Chicago, Ill. Ceiling plate. No. 60,360; Feb. 7.
- Mohrmann, Paul, assignor to Friedley-Voshardt Co., Chicago, Ill. Lighting fixture. Nos. 60,560-2; Mar. 7.
- Mohrmann, Paul, assignor to Friedley-Voshardt Co., Chicago, Ill. Shower pan for lighting fixtures. No. 60,873; Apr. 18.
- Mohrmann, Paul, assignor to Friedley-Voshardt Co., Chicago, Ill. Receptacle. No. 61,346; Aug. 8.
- Molby, Edgar C., Brooklyn, assignor to Iron Products Corporation, New York, N. Y. Combination heater and open fire grate. No. 60,294; Jan. 24.
- Mondo, Charles J. (See Lo Verde, J., and Tabiclo, assignors.)
- Money Penny, David T., Guthrie, Ky. Statuette. No. 61,420; Aug. 29.
- Monk, George B., San Francisco, Calif. Emblem, badge, button, pin, or article of a similar nature. No. 60,943; May 9.
- Monk, Thomas, Bridgeport, Conn., assignor to The American Fabrics Company. Lace. No. 60,419; Feb. 14.
- Montague & Co. Inc. (See Lindner, Harold H., assignor.)
- Mooney, Madelon, Los Angeles, Calif. Doll. Nos. 60,695-701; Mar. 21.
- Moore, Eugenia, Milwaukee, Wis. Doll. No. 61,628; Oct. 31.
- Moore, Harry C., assignor to The Automotive Manufacturing Company, Dayton, Ohio. Combination grease cup and gun. No. 60,361; Feb. 7.
- Morgan, Alfred P., Montclair, N. J. Instrument mount for radiopanel. No. 60,362; Feb. 7.
- Moriarty, John J., assignor to The Victor Rubber Company, Springfield, Ohio. Pneumatic-tire tread. No. 61,143; June 27.
- Morimura Bros., Inc. (See Kotato, Teiji, assignor.)
- Morine, Edwin C., Detroit, Mich. Vehicle cab. No. 60,363; Feb. 7.
- Morreau Company, The. (See Maerz, Frederick K., assignor.)
- Morris, Harry, Chicago, Ill. Display cabinet. No. 61,504; Sept. 19.
- Morrison, Charles C., assignor to Richard Hudnut, New York, N. Y. Bottle. Nos. 60,563-4; Mar. 7.
- Morton, Dudley J., Milford, Conn. Doll or manikin. No. 61,598; Oct. 24.
- Moskowitz, David, Brooklyn, N. Y. Sadiron holder. No. 61,727; Dec. 19.
- Motta, Clara L., Modesto, Calif. Brassière. No. 60,156; Jan. 3.
- Moxie Company, The. (See Archer, Frank M., assignor.)
- Moynihan, Owen, Cleveland, Ohio. Pneumatic-tire tread. No. 61,447; Sept. 5.
- Muir, Robert, Watertown, Mass., assignor to Hood Rubber Company, Watertown, Mass. Vehicle tire. No. 60,732; Mar. 28.
- Mullins, Charles E., Roanoke, assignor to J. T. Barron, Chicago, Ill. Building tile. No. 60,250; Jan. 17.
- Mumaw, John H., Pittsburgh, Pa. Vest for ladies' blouses. No. 60,874; Apr. 18.
- Mund, Samuel M., St. Joseph, Mo. Hat creaser. No. 60,364; Feb. 7.
- Murnane, Daniel J., Jr., Detroit, Mich., assignor to Zouri Drawn Metals Company, Chicago Heights, Ill. Exterior member of a store-front corner bar. No. 60,733; Mar. 28.
- Murphy, Albert E., Helena, Mont. Attachment for hand bags. No. 60,622; Mar. 14.
- Myers, Albert R. (See Romulus, George J., assignor.)
- Myers, Francis P. (See Blackwell, H. A., and Myers.)
- Myers, Leonard, Gloversville, N. Y. Toy animal. No. 61,629; Oct. 31.
- Namiot, Charles B., New York, N. Y. Wedding ring. No. 61,773; Aug. 15.
- Napoli, Frank. (See Centrone, Rocco, assignor.)
- Nathan and Cohen Co. (See Nathan, Benjamin, assignor.)
- Nathan, Benjamin, assignor to Nathan and Cohen Co. Inc., New York, N. Y. Textile fabric. No. 60,565; Mar. 7.
- National Automobile Dealers' Association. (See Vane, Christy A., assignor.)
- National Society of United States Daughters of 1812. (See Bickel, E. S. R., and De Barthe, assignors.)
- Neely, Burnitta C., Sacramento, Calif. Doll. No. 60,157; Jan. 8.
- Negbauer, Harry, New York, N. Y., assignor to E. & J. Bass, Incorporated. Ash tray. No. 61,019; May 30.
- Neidlinger, George H., East Orange, N. J. Christmas-tree ornament. No. 60,201; Jan. 10.
- Nelson, Erik W., New Rochelle, N. Y. Motion-picture camera. No. 60,158; Jan. 3.
- Nelson, Hugo, Minneapolis, Minn. Article of jewelry—namely, a pin, brooch, ring, or article of similar nature. No. 60,257; Jan. 17.
- Nelson, Newman, Clinton, Iowa. Electric lamp. No. 60,623; Mar. 14.
- Nelson, Theodore J., Chicago, Ill. Lighting fixture. No. 60,875; Apr. 18.
- Ne Page, Justus F., Seattle, Wash. Street lamp. No. 60,944; May 9.
- New York Mills Corporation. (See Leiper, John, assignor.)
- Newell, Louis B., assignor to Carr-Lowery Glass Co., Baltimore, Md. Jar. No. 61,505; Sept. 19.
- Newell, Louis B., assignor to Carr-Lowery Glass Co., Baltimore, Md. Bottle. No. 61,506; Sept. 19.
- Newell, Louis B., assignor to Carr-Lowery Glass Co., Baltimore, Md. Bottle. No. 61,544; Oct. 17.
- Newland, Barnet, New York, N. Y. Tassel for lighting fixtures. No. 61,374; Aug. 15.
- Newland, Barnet, New York, N. Y. Loop for lighting fixtures. No. 61,375; Aug. 15.
- Newland, Barnet, New York, N. Y. Wall bracket. No. 61,376; Aug. 15.
- Newman, Hart D., New Orleans, La. Thermos bottle. No. 60,566; Mar. 7.
- Nichols, Theodore C., Olympia, Wash. Sewing cabinet. No. 61,599; Oct. 24.
- Nickerson, Gertrude L., assignor to The Warner Brothers Company, Bridgeport, Conn. Corset. No. 61,175; July 4.
- Nieberding, Frank A., Cleveland, Ohio. Heater. No. 61,539; Oct. 10.
- Nock, Harold E., assignor to Towle Manufacturing Company, Newburyport, Mass. Spoon or analogous article. No. 61,630; Oct. 31.
- Noe, William R., & Sons. (See Roettges, Frederick, assignor.)
- Norling, Ernest R. (See Schmucker, L. A., and Norling.)
- Norquist, Angeline, Minneapolis, Minn. Doll. No. 61,206; July 11.
- North American Lace Company. (See Daudy, Marc H., assignor.)
- North Hudson Embroidery Co. (See Rizzi, Joseph, assignor.)
- Norton, Harry H., New York, N. Y. Automobile lamp. No. 60,755; Apr. 4.
- Norwalk Tire & Rubber Company. (See Schmidt, Henry G., assignor.)
- Norwood, Harry Y., assignor to Taylor Instrument Companies, Rochester, N. Y. Combination hose coupling and valve. No. 60,159; Jan. 3.
- Nusbaum, D., & Co. (See Nusbaum, David, assignor.)
- Nusbaum, David, New York, assignor to D. Nusbaum & Co., Inc., Union Course, Long Island, N. Y. Sweater. Nos. 60,800-7; Apr. 11.
- Nygren, Albert G., Milwaukee, Wis. Light fixture. No. 61,377; Aug. 15.
- Oakley, Laurence M., assignor to Essex Rubber Company, Trenton, N. J. Resilient heel lift. No. 60,366; Feb. 7.
- Oakley, Laurence M., assignor to Essex Rubber Company, Trenton, N. J. Resilient heel lift. No. 60,945; May 9.
- Obsbaum, Thomas M., Chicago, Ill. Ring. No. 60,993; May 23.
- Ochse, William, San Antonio, Tex. Combination watch and knife. No. 61,220; July 18.
- O'Dowd, Henry W., Jersey City, N. J., assignor to William M. Crane Company. Gas range. Nos. 60,756-8; Apr. 4.
- Oehrlie Brothers Company. (See Oehrlie, Franklin W., assignor.)
- Oehrlie, Frank W., assignor to Oehrlie Brothers Company, Philadelphia, Pa. Fringe. Nos. 61,378-9; Aug. 15.
- Ofensend, Chase F., assignor to The Miller Rubber Company, Akron, Ohio. Tire tread. No. 61,101; June 20.
- O'Hara, J. Carl, et al., trustees. (See Gordon, Henry C., assignor.)
- Ohm, Albert J. D., assignor to Lion Electric Appliance Co., Inc., New York, N. Y. Lighting-fixture arm. No. 60,624; Mar. 14.
- Ohm, Albert J. D., assignor to Lion Electric Appliance Co., Inc., New York, N. Y. Lighting-fixture bracket. No. 60,625; Mar. 14.
- Ohm, Albert J. D., Astoria, N. Y., assignor to M. Schaffer Co. Lamp fixture. No. 61,317; Aug. 1.
- Ohm, Albert J. D., Astoria, N. Y., assignor to M. Schaffer Co. Arm for lamp fixtures. No. 61,318; Aug. 1.
- Oliver, Cora O., Oklahoma, Okla. Doll. No. 61,207; July 11.
- Oldfield Tire Company, The. (See Bush, Albert A., assignor.)

- Oppenheim, Austin N., assignor to Oppenheim, Oberndorf & Co., Inc., Baltimore, Md. Display shape of an article of clothing. No. 61,051; June 6.
- Oppenheim, Oberndorf & Co. (See Oppenheim, Austin N., assignor.)
- Ordway, Lewis H., Haverhill, Mass. Shoe ornament. No. 60,876; Apr. 18.
- Orloff, Max, Brooklyn, N. Y. Shirt. No. 60,877; Apr. 18.
- Ornstein, David, New York, N. Y. Finger ring. No. 61,208; July 11.
- Orr, William A. (See Ross, J. W., and Orr.)
- Osborn, Herman W., Bedford, Ohio. Tire tread. No. 61,102; June 20.
- Otte, Otho M., Tarentum, Pa. Light diffuser. Nos. 61,209-10; July 11.
- Ouzoun-Boghossian, Sissag K., Washington, D. C. Watch-movement case. No. 60,497; Feb. 28.
- Oversmith, Clarence D., Buffalo, N. Y. Advertising display case. No. 60,465; Feb. 21.
- Package Paper and Supply Corporation. (See Have-meyer, Clara H., assignor.)
- Packard, Elizabeth F., Dorchester, Mass. Combination wash cloth and cake of soap. No. 60,258; Jan. 17.
- Packard Motor Car Company. (See Walker, Frederick W., assignor.)
- Page, Arthur T., Middleton, Mass. Stick pin. No. 61,600; Oct. 24.
- Page, Samuel H., Stratford, Conn., assignor to The American Fabrics Company. Lace. Nos. 60,421-3; Feb. 14.
- Page, Samuel H., Stratford, Conn., assignor to The American Fabrics Company. Lace. No. 60,946; May 9.
- Page, Samuel H., Stratford, Conn., assignor to The American Fabrics Company. Lace. No. 61,211; July 11.
- Parjeau, Charles H., Evanston, Ill. Wheeled toy. No. 61,476; Sept. 12.
- Palm Brothers Company, The. (See Bottome, Edgar M., assignor.)
- Palm Brothers Company, The. (See Klenk, Charles, assignor.)
- Palmberg, Stone G. (See Quandee, A. A., and Palmberg.)
- Palmer, Margaret B., Los Angeles, Calif. Nursing bottle. No. 60,567; Mar. 7.
- Palmer, Theron R., Erie, Pa. Bicycle handle-bar grip. No. 60,702; Mar. 21.
- Palmolive Company, The. (See Lowy, Felix, assignor.)
- Palmolive Co., The. (See Raynor, Harold H., assignor.)
- Panther Rubber Manufacturing Company. (See Freeman, Dudley, assignor.)
- Pardee, Harvey S., J. A. Dewire, and J. W. Suporter, assignors to Miller and Pardee, Inc., Chicago, Ill. Radiator cap. No. 60,878; Apr. 18.
- Park & Tilford. (See Ritterbeck, Aloysius, assignor.)
- Parker, Delia I., Vienna, Ill. Burial garment. No. 60,367; Feb. 7.
- Parker, Ralph D., San Francisco, Calif. Automobile windshield wing. No. 60,808; Apr. 11.
- Patchogue-Plymouth Mills Corporation. (See Herod, Joseph, assignor.)
- Patrich, Jacob N., New York, N. Y. Teething ring. No. 60,947; May 9.
- Pecoraro, Peter, Brooklyn, N. Y. Combination tray. No. 60,424; Feb. 14.
- Peerless Mfg. Company. (See Miller, Bertram L., assignor.)
- Pelgram & Meyer. (See Frank, David C., assignor.)
- Pelt, Joseph, Newark, N. J. Knitted cape. No. 61,276; July 25.
- Pelt, Joseph, Newark, N. J. Sweater. No. 61,601; Oct. 24.
- Pelt, Joseph, Newark, N. J. Garment. Nos. 61,602-4; Oct. 24.
- Perchal, Edward, Chicago, Ill. Clock. No. 61,631; Oct. 31.
- Perlmann, Schäl & Stern. (See Baldauf, Max, assignor.)
- Perry, Harry H., Stockton, Calif. Toy aeroplane. No. 60,809; Apr. 11.
- Peters, Henry W., Boston, Mass. Badge, pin, ring, emblem, or article of similar nature. No. 61,477; Sept. 12.
- Petersen, Arnold J., Cedar Rapids, Iowa. Arm for lighting fixtures. Nos. 60,626-8; Mar. 14.
- Petersen, Arnold J., Cedar Rapids, Iowa. Chandelier. No. 60,629; Mar. 14.
- Petersen, Niels P., Alhambra, Calif. Support for a flagstaff table decoration. No. 60,295; Jan. 24.
- Peterson, Haakon, Coeur D'Alene, Idaho. Frame for pictures, mirrors, and the like. No. 60,499; Feb. 28.
- Pfeizer, Roscoe C., assignor to B. F. Klein, Cleveland, Ohio. Lighting fixture. No. 60,964; May 16.
- Philips, Hans A., Stratford, Conn., assignor to The American Fabrics Company. Lace. No. 60,425; Feb. 14.
- Philips, Hans A., Stratford, Conn., assignor to The American Fabrics Company. Lace. No. 60,948; May 9.
- Philips, Hans A., Stratford, Conn., assignor to The American Fabrics Company. Lace. No. 61,246; July 18.
- Phillips, Walter W., London, England. India-rubber sole pad for boots and shoes. No. 60,810; Apr. 11.
- Phoel, Philip, New York, N. Y. Finger ring. Nos. 61,397-8; Aug. 22.
- Phoenix Light Company. (See Pike, Edwin B., assignor.)
- Phoenix Light Company. (See Rodems, Arron M., assignor.)
- Piaszek, Ferdinand, Saginaw, Mich. Lens. Nos. 61,521-3; Sept. 26.
- Pick, Albert, & Company. (See Kellogg, Edmund P., assignor.)
- Pierson, Robert M., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire casing. No. 61,665; Nov. 14.
- Pike, Edwin B., assignor to Phoenix Light Company, Milwaukee, Wis. Lamp standard. Nos. 61,320-3; Aug. 1.
- Pike, Edwin B., assignor to Phoenix Light Company, Milwaukee, Wis. Lamp standard. Nos. 61,507-8; Sept. 19.
- Pittsburgh Lamp, Brass & Glass Company. (See Ross, H. A., and Koehler, assignors.)
- Pittsburgh Lamp, Brass & Glass Company. (See Steffen, Adolf, assignor.)
- Plantinga, Margaret. (See Plantinga, Peter and M.)
- Plantinga, Peter and M., Readsboro, Vt. Garden hoe. No. 60,259; Jan. 17.
- Platt, Hiram, Como, Mont. Monument. No. 61,144; June 27.
- Playman, William L., Stevens Point, Wis. Combined baby cabinet and basket-crib support. No. 60,160; Jan. 3.
- Polales, George N., assignor of one-half to A. Rosset, Chicago, Ill. Motor-meter casing. No. 60,260; Jan. 17.
- Pollard, Willard L., Evanston, Ill. Automobile. No. 60,568; Mar. 7.
- Ponon, Paul S., assignor to Beaver Machine and Tool Co., Inc., Newark, N. J. Portable motion-picture-screen support. Nos. 61,324-5; Aug. 1.
- Poritz, Frederick M., assignor to Star Chandelier Company, Inc., New York, N. Y. Chandelier. Nos. 60,994-6; May 23.
- Poritz, Frederick M., assignor to Star Chandelier Company, Inc., New York, N. Y. Arm for a chandelier body. No. 61,020; May 30.
- Poritz, Frederick M., New York, N. Y., assignor to Scott-Ullman Company, Cleveland, Ohio. Arm for lighting fixtures. No. 61,509; Sept. 19.
- Post, Cornelia M., Langhorne, assignor to Armstrong Cork Company, Pittsburgh, Pa. Linoleum, oilcloth, or floor covering. Nos. 60,426-7; Feb. 14.
- Post, Cornelia M., Langhorne, assignor to Armstrong Cork Company, Pittsburgh, Pa. Linoleum, oilcloth, or floor covering. No. 60,703; Mar. 21.
- Powell, Katharine L., Amherst, Mass. Outer garment. No. 61,212; July 11.
- Powers, William H., Chicago, assignor to F. W. Hopkins, Wilmette, Ill. Toy dog. Nos. 61,326-7; Aug. 1.
- Pratt, Benjamin H., Milwaukee, Wis., assignor, by mesne assignments, to The Fisk Rubber Company, Chicopee Falls, Mass. Tire. No. 60,630; Mar. 14.
- Pratt, Benjamin H., Milwaukee, Wis., assignor, by mesne assignments, to The Fisk Rubber Company, Chicopee Falls, Mass. Tire. No. 61,715; Dec. 12.
- Pratt, John M., Winnipeg, Manitoba, Canada. Doll. No. 60,811; Apr. 11.
- Preiss, Richard, Chicago, Ill. Automobile radiator closure. No. 61,399; Aug. 22.
- Preston, Edward S., Chicago, Ill., assignor to Edmunds & Jones Corporation. Signal-lamp lens. No. 61,347; Aug. 8.
- Priest, Chase, Grant, Iowa. Yeast carton. No. 60,812; Apr. 11.
- Protecto Pump Company, The. (See Hatmaker, William T., assignor.)
- Protectu Corporation. (See Shoemaker, John F., assignor.)
- Przybyla, Walenty M., Pulawski, Mich. Money bag. No. 61,421; Aug. 29.
- Pulsifer, George H., Haverhill, Mass. Shoe ornament. Nos. 60,879-80; Apr. 18.
- Quabaug Rubber Company. (See Mason, Herbert T., assignor.)
- Quandee, Alvin A., and S. G. Palmberg, Chicago, Ill. Combination fork and spoon. No. 60,369; Feb. 7.
- Quinby, Paul W., Los Angeles, Calif. Candy box. No. 60,202; Jan. 10.
- Quinn, Gilbert F., assignor to Simplex Rubber Company, Boston, Mass. Rubber heel. No. 60,428; Feb. 14.
- Quebec Hose Supporter Company. (See Lindquist, Erick V. and C. A., assignors.)
- Radford, George, Oakland Beach, R. I. Lacc. No. 60,261; Jan. 17.
- Radford, George, Oakland Beach, R. I. Lace. No. 61,689; Nov. 21.
- Radford, George, Oakland Beach, R. I., assignor to Richmond Lace Works, Alton, R. I. Lace. No. 60,997; May 23.
- Ragsdale, Walter S., New York, N. Y. Flag. No. 60,813; Apr. 11.
- Rainaud, H. E., Company, The. (See Rainaud, Henry E., assignor.)
- Rainaud, Henry E., assignor to The H. E. Rainaud Company, Meriden, Conn. Shade for lighting fixtures. No. 60,569; Mar. 7.
- Rainaud, Henry E., assignor to The H. E. Rainaud Company, Meriden, Conn. Portable lamp. Nos. 60,570-1; Mar. 7.
- Ralicki, Henry J. (See Wonsowicz, George, assignor.)
- Rand, James H., Jr., assignor to American Kardex Company, Tonawanda, N. Y. Cabinet unit. No. 60,998; May 23.
- Randolph, Charles P., Chicago, Ill., assignor to Edison Electric Appliance Company, Inc. Waffle iron. No. 61,605; Oct. 24.
- Raniville, Francis F., Grand Rapids, Mich. Belt package. No. 60,429; Feb. 14.

Alphabetical list of patentees of designs—Continued.

- Rattray, James B., Quincy, assignor to Gillette Safety Razor Company, Boston, Mass. Case for a safety razor. No. 60,262; Jan. 17.
- Ray, Alton G., Pittsburgh, Pa. Passenger-loading platform for street railways. No. 60,572; Mar. 7.
- Ray Puncture Proof Tire Company. (See Carnal, William D., assignor.)
- Raymond, Daniel, assignor to Garden City Pottery Company, Inc., San Jose, Calif. Flowerpot. No. 61,448; Sept. 5.
- Raynor, Harold H., New York, N. Y., assignor to The Palmolive Co., Milwaukee, Wis. Container. No. 60,370; Feb. 7.
- Reader, Helen V., Roosevelt, Wash. Doll. No. 61,632; Oct. 31.
- Reaper, William A., Monroe, Mich. Ornamentation for a goblet, bowl, or similar article. No. 61,103; June 20.
- Reber, George E., Reading, Pa. Badge or like article. No. 60,263; Jan. 17.
- Reber, Harvey, Hightwood, assignor of one-half to G. Gillette, Highland Park, Ill. Combined book end and candlestick. No. 61,328; Aug. 1.
- Reeks, Elizabeth. (See Scheppach, A. W., Hutton, and Reeks.)
- Rogan, Anna E., Oakland, Calif. Statuette. No. 60,734; Mar. 28.
- Rehns, Georges, Paris, France. Bottle. No. 61,422; Aug. 29.
- Reich, Samuel, New York, N. Y. Doll. No. 61,478; Sept. 12.
- Reichard, Harold D., Akron, Ohio. Tire tread. No. 60,631; Mar. 14.
- Reidon Company, The. (See Reiser, Alfred W., assignor.)
- Reinhardt, George F., Newton, Mass. Connected pair of half soles. No. 60,264; Jan. 17.
- Reiser, Alfred W., assignor to The Reidon Company, Toledo, Ohio. Link for lighting fixtures. No. 60,161; Jan. 3.
- Reiser, Alfred W., assignor to The Reidon Company, Toledo, Ohio. Loop for lighting fixtures. No. 60,162; Jan. 3.
- Reiser, Alfred W., assignor to The Reidon Company, Toledo, Ohio. Arm for lighting fixtures. No. 60,163; Jan. 3.
- Reiser, Alfred W., assignor to The Reidon Company, Toledo, Ohio. Shade for lighting fixtures. No. 60,164; Jan. 3.
- Reiser, Alfred W., assignor to The Reidon Company, Toledo, Ohio. Globe for lighting fixtures. No. 60,165; Jan. 3.
- Reiser, Alfred W., assignor to The Reidon Company, Toledo, Ohio. Cast arm for lighting fixtures. No. 60,166; Jan. 3.
- Reiser, Alfred W., assignor to The Reidon Company, Toledo, Ohio. Arm for lighting fixtures. No. 60,167; Jan. 3.
- Reiser, Alfred W., assignor to The Reidon Company, Toledo, Ohio. Shade for lighting fixtures. No. 60,168; Jan. 3.
- Reiser, Alfred W., assignor to The Reidon Company, Toledo, Ohio. Globe for lighting fixtures. No. 60,169; Jan. 3.
- Reiser, Alfred W., assignor to The Reidon Company, Toledo, Ohio. Bowl for lighting fixtures. No. 60,170; Jan. 3.
- Reiser, Alfred W., assignor to The Reidon Company, Toledo, Ohio. Double fixture loop for a lighting fixture. No. 60,265; Jan. 17.
- Reiser, Alfred W., assignor to The Reidon Company, Toledo, Ohio. Bowl for lighting fixtures. No. 60,296; Jan. 24.
- Reizenstein, Charles L., Pittsburgh, Pa. Glass dish. Nos. 61,247-52; July 18.
- Resor, Stanley, New York, N. Y., assignor, by mesne assignments, to The Andrew Jergens Company, Cincinnati, Ohio. Cake of soap. No. 60,171; Jan. 3.
- Rewick, Everett E., Los Angeles, Calif. Dresser. Nos. 60,759-60; Apr. 4.
- Rewick, Everett E., Los Angeles, Calif. Furniture panel. No. 60,761; Apr. 4.
- Rewick, Everett E., Los Angeles, Calif. Seat. No. 60,762; Apr. 4.
- Rice, Jerome, assignor to Wimbacher & Rice, New York, N. Y. Glove gauntlet. Nos. 61,479-82; Sept. 12.
- Rice, Jerome, assignor to Wimbacher & Rice, New York, N. Y. Glove gauntlet. No. 61,606; Oct. 24.
- Richard Hudnut. (See Morrison, Charles C., assignor.)
- Richards, James P., Toronto, Ontario, Canada. Package for rubber bottle nipples and soothers. No. 60,632; Mar. 14.
- Richardson Corporation. (See Jacoby, Charles N., assignor.)
- Richert, Emmanuel T., Akron, Ohio. Toy spotted balloon. No. 60,814; Apr. 11.
- Richmond Lace Works. (See Draycott, John, assignor.)
- Richmond Lace Works. (See Draycott, Walter, assignor.)
- Richmond Lace Works. (See Radford, George, assignor.)
- Richmond Lace Works. (See Smedley, Thomas H., assignor.)
- Riddle, Edward N., Co., The. (See Crowell, Frank S., assignor.)
- Ridge, William F., Akron, Ohio. Tire tread. No. 60,704; Mar. 21.
- Ridgway, Edward J., Staten Island, N. Y. Plate or similar article. No. 61,607; Oct. 24.
- Riehemann, Jacob, Rock Island, Ill. Emblem, button, badge, or similar article. No. 60,815; Apr. 11.
- Riehl, Frederick W., Yonkers, N. Y. Ring. No. 61,320; Aug. 1.
- Rieking, Gustav, assignor to W. A. Milligan and Company, Limited, Toronto, Ontario, Canada. Sautoir watch holder. No. 61,213; July 11.
- Riordan, Patrick D., New York, N. Y. Flag for Ireland. No. 61,253; July 18.
- Ripich, Louis J., Cleveland, Ohio. Combination lamp stand. No. 61,330; Aug. 1.
- Ritterbeck, Aloysius, West Hoboken, N. J., assignor to Park & Tiltford, New York, N. Y. Olive-oil bottle. No. 61,380; Aug. 15.
- Rizzi, Joseph, Weehawken, N. J., assignor to North Hudson Embroidery Co., Inc. Lace. Nos. 60,466-9; Feb. 21.
- Roberts, Clarence V., and K. C. Farnsworth, assignors to Roberts and Mander Stove Company, Philadelphia, Pa. Gas heater. No. 60,172; Jan. 3.
- Roberts, Clarence V., and K. C. Farnsworth, assignors to Roberts and Mander Stove Company, Philadelphia, Pa. Gas burner. No. 60,173; Jan. 3.
- Roberts, Clarence V., and Kenneth C. Farnsworth, assignors to Roberts and Mander Stove Company, Philadelphia, Pa. Gas heater. No. 61,277; July 25.
- Roberts, David H., Milwaukee, Wis., assignor, by mesne assignments, to The Fisk Rubber Company, Chicopee Falls, Mass. Tire. No. 61,716; Dec. 12.
- Roberts, Robert L., Sacramento, Calif. Toy. No. 60,999; May 23.
- Roberts and Mander Stove Company. (See Roberts, C. V., and Farnsworth, assignors.)
- Robins, Max, Chicago, Ill. Carton for face powder. No. 60,372; Feb. 7.
- Rodem, Arron M., assignor to Phoenix Light Company, Milwaukee, Wis. Lighting fixture. No. 61,649; Nov. 7.
- Roettges, Frederick, Stamford, Conn., assignor to S. R. Schwartz, New York, N. Y. Lamp shade. No. 61,104; June 20.
- Roettges, Frederick, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y. Shade for lighting fixtures. Nos. 61,254-7; July 18.
- Roettges, Frederick, Stamford, Conn., assignor to William Noe & Sons, New York, N. Y. Pedestal for lighting fixtures. Nos. 61,258-63; July 18.
- Roettges, Frederick, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y. Shade for lighting fixtures. No. 61,264; July 18.
- Roettges, Frederick, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y. Pedestal for lighting fixtures. Nos. 61,510-11; Sept. 19.
- Roettges, Frederick, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y. Lamp or other shade. No. 61,650; Nov. 7.
- Roettges, Frederick, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y. Lamp or other pedestal. Nos. 61,651-2; Nov. 7.
- Roettges, Frederick, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y. Pedestal for lighting fixtures. No. 61,705; Dec. 5.
- Roettges, Frederick, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y. Shade for lighting fixtures. No. 61,706; Dec. 5.
- Roettges, Frederick, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y. Pedestal for lighting fixtures. Nos. 61,707-9; Dec. 5.
- Rogers, Cephas B., Danbury, Conn. Electric-light bracket. No. 60,633; Mar. 14.
- Rogers, Cephas B., Danbury, Conn. Electric-light bracket. No. 61,653; Nov. 7.
- Rogers, Marguerite, Cambridge, Mass., assignor, by mesne assignments, to The Bateau Sales Company, Incorporated, New York, N. Y. Doll. No. 60,373; Feb. 7.
- Rogers, William A., Limited. (See James, Sidney V., assignor.)
- Rogers, William T., Kansas City, Mo. Illuminated highway guidepost. No. 60,735; Mar. 28.
- Roller, Milton B., assignor to Thomas Day Company, San Francisco, Calif. Lighting-bracket back plate. Nos. 61,105-6; June 20.
- Roller, Milton B., assignor to Thomas Day Company, San Francisco, Calif. Plate for lighting fixtures. Nos. 61,107-8; June 20.
- Roller, Milton B., assignor to Thomas Day Company, San Francisco, Calif. Lighting fixture. Nos. 61,109-14; June 20.
- Roller, Milton B., assignor to Thomas Day Company, San Francisco, Calif. Arm for lighting fixtures. Nos. 61,115-16; June 20.
- Roller, Milton B., assignor to Thomas Day Company, San Francisco, Calif. Electric-lighting bracket. No. 61,117; June 20.
- Rolph, William M., London, England. Radiator-cap ornament. No. 61,348; Aug. 8.
- Rome Metallic Bedstead Company. (See Rosenburgh, Ernest L., assignor.)
- Romulus, George J., Lynn, Mass., assignor of one-half to A. R. Myers, Brooklyn, N. Y. Lamp. No. 61,118; June 20.
- Rosen, A. W., New York, N. Y. Combined match stand and ash tray. No. 61,119; June 20.
- Rosenberg, Jacob D., Detroit, Mich. Watchcase. No. 60,881; Apr. 18.

- Rosenburgh, Ernest L., assignor to Rome Metallic Bedstead Company, Rome, N. Y. Bedstead and frame. Nos. 60,736-7; Mar. 28.
- Rosenburgh, Ernest L., assignor to Rome Metallic Bedstead Company, Rome, N. Y. Bedstead end frame. Nos. 61,000-1; May 23.
- Rosenburgh, Ernest L., assignor to Rome Metallic Bedstead Company, Rome, N. Y. Bedstead end frame. Nos. 61,423-5; Aug. 29.
- Rosenthal, Louis, assignor of one-half to L. J. Cohn, Baltimore, Md. Pin, brooch, or ring. No. 60,500; Feb. 28.
- Ross, Charles J., Oakland, Calif. Doll. No. 60,501; Feb. 28.
- Ross, Harry A., Pittsburgh, Pa. Paper weight. No. 61,400; Aug. 22.
- Ross, Harry A., Pittsburgh, and O. Kohler, Jeannette, assignors to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Shade for lighting fixtures. No. 61,349; Aug. 8.
- Ross, Harry A., Pittsburgh, and O. Kohler, Jeannette, assignors to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Bowl for lighting fixtures. No. 61,350; Aug. 8.
- Ross, James W., and W. A. Orr, Hamilton, Ontario, Canada; said Orr assignor to said Ross. Headlight lens. No. 60,374; Feb. 7.
- Rosset, Abe. (See Polales, George N., assignor.)
- Roth, Gustav A., Louisville, Ky. Lawn sprinkler. No. 60,573; Mar. 7.
- Roth, Louis, assignor to Sterling Bronze Company, New York, N. Y. Radiator cap. No. 60,375; Feb. 7.
- Rothschild, Max, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 60,574; Mar. 7.
- Rothschild, Max, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 60,816-20; Apr. 11.
- Rotonto, Antonio, South Bethlehem, Pa. Shoe. No. 60,917; Apr. 25.
- Rousmaniere, Williams & Co. (See Allen, Winthrop B., assignor.)
- Rousmaniere, Williams & Co. (See Curtis, Edgar F., assignor.)
- Rousmaniere, Williams & Co. (See Evers, Walter V. A., assignor.)
- Rowland, Gladys, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 60,821-3; Apr. 11.
- Rowland, Gladys, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 61,278; July 25.
- Royal Comb Company. (See Hadley, E. P., and Holden, assignors.)
- Royal Comb Company. (See Holden, C. C., and Hadley, assignors.)
- Rufenacht, Frederick, Bucyrus, Ohio. Tire tread. No. 60,705; Mar. 21.
- Rúsnak, Mikel, Chicago, Ill. Combined lamp stand and phonograph. No. 61,120; June 20.
- Russell Manufacturing Company, The. (See Kelsey, H. W., and Baer, assignors.)
- Ruttenberg, Edward C., Chicago, Ill. Pedestal for lighting fixtures. No. 67,654; Nov. 7.
- Ryan, Edward J., New York, N. Y. Badge or emblem. No. 61,633; Oct. 31.
- Ryan, Thomas F., Philadelphia, Pa. Stocking. No. 60,882; Apr. 18.
- Ryan, Thomas L., Muncie, Ind. Portable lamp base. No. 61,331; Aug. 1.
- Saart, Albert G., Attleboro, Mass., assignor to Saart Brothers Company. Toppie die. No. 60,575; Mar. 7.
- Saart Brothers Company. (See Saart, Albert G., assignor.)
- Sabbath, John L., Montreal, Quebec, Canada. Bracelet. No. 60,377; Feb. 7.
- Sabbath, John L., Montreal, Quebec, Canada. Bracelet. No. 60,470; Feb. 21.
- Sañon, Herman A., and M. Geringer, New York, N. Y. Lighting-fixture arm. No. 61,417; Aug. 29.
- Sañon, Herman A., and M. Geringer, New York, N. Y. Lighting-fixture arm. No. 61,426; Aug. 29.
- Saito, Gisaburo F., New York, N. Y. Fern or flower dish. Nos. 60,174-5; Jan. 3.
- Sandgren, Andrew, assignor of one-half to C. W. Fellgren, Chicago, Ill. Bathtub. No. 60,266; Jan. 17.
- Sanfilippo, Raimondo, Rochester, N. Y. Fountain. No. 60,918; Apr. 25.
- Sanford, Andrew J., assignor to A. H. Heisey & Co., Newark, Ohio. Pitcher. No. 60,378; Feb. 7.
- Sanford, Andrew J., assignor to A. H. Heisey & Co., Newark, Ohio. Glass article. No. 60,706; Mar. 21.
- Sanitary Scale Company. (See Ludlow, George M., assignor.)
- Santa, John, Leadville, Colo. Stand. No. 61,121; June 20.
- Santo, George. (See Halinka, G., and Santo.)
- Sasco Knitted Hat Company. (See Slotoroff, Abraham, assignor.)
- Sauer, Harold R., Richmond Hill, N. Y., assignor to Bigelow Hartford Carpet Co. Carpet. No. 60,707; Mar. 21.
- Saunders, William M., Waterbury, Conn., assignor to The Hoge Manufacturing Company, Inc., New York, N. Y. Propel pencil cap. No. 61,699; Nov. 28.
- Savage, Dorothy B., Cambridge, Mass. Doll. No. 61,608; Oct. 24.
- Saylor, Parry D., Buffalo, N. Y. Vehicle tire tread. No. 61,351; Aug. 8.
- Schaeffer, Harry, Brooklyn, N. Y. Baby-carriage hood. No. 61,666; Nov. 14.
- Schaffer, Max Co. (See Ohm, Albert J. D., assignor.)
- Scheppach, Ada W., Newark, I. E. Hutton, Morristown, and E. Reeks, Newark, N. J. Badge, emblem, pin, or similar article. No. 60,203; Jan. 10.
- Schlaich, Herman, Long Island City, N. Y. Dial plate for temperature-indicating instruments. No. 61,020; May 30.
- Schlepp, Morris, New York, N. Y. Chandelier plate. No. 61,449; Sept. 5.
- Schlepp, Morris, New York, N. Y. Ceiling canopy. No. 61,450; Sept. 5.
- Schlesinger, Louis, assignor to Bradley Wash-Fountain Co., Milwaukee, Wis. Fountain bowl or similar article. No. 60,267; Jan. 17.
- Schlink, George V., Peoria, Ill. Vehicle door handle. No. 60,576; Mar. 7.
- Schmidt, Gustave F., Chicago, Ill. Gas heater. No. 61,451; Sept. 5.
- Schmidt, Henry G., assignor to The Norwalk Tire & Rubber Company, Norwalk, Conn. Tire. No. 61,690; Nov. 21.
- Schmucker, Lloyd A., and E. R. Norling, Seattle, Wash. Hanger for wearing apparel or other article. No. 60,919; Apr. 25.
- Schmucker, Lloyd A., and E. R. Norling, Seattle, Wash. Hand bag. No. 60,920; Apr. 25.
- Schnack, Martin R., Los Angeles, Calif. Doll. No. 61,483; Sept. 12.
- Schnitzer, Louis M., L. Garroway, Brooklyn, and N. Gelfman, New York, N. Y. Tray. No. 61,381; Aug. 15.
- Schoeck, Frank, Syracuse, N. Y. Sewing cabinet. No. 60,965; May 16.
- Schuler, William A., New York, N. Y. Fastener for key rings, chains, necklaces, and similar articles. No. 60,268; Jan. 17.
- Schulze, John W., assignor to Alfred Vester Sons, Inc., Providence, R. I. Pendulet. No. 60,883; Apr. 18.
- Schulze, John W., assignor to Alfred Vester Sons, Inc., Providence, R. I. Husk for lighting fixtures. No. 61,279; July 25.
- Schumaker, Alvin. (See Wendt, Fred H., assignor.)
- Schumacher, Edward, Buffalo, N. Y. Pipe-coil cluster for heaters and coolers. No. 60,176; Jan. 3.
- Schwarber, Henry, Weehawken, N. J., assignor to Inflexible Co., West New York, N. J. Embroidered lace. No. 60,634; Mar. 14.
- Schwartz, S. Robert. (See Roettges, Frederick, assignor.)
- Schwartz, S. Robert, and A. Bostroem, assignors to S. R. Schwartz, New York, N. Y. Portable lamp base. No. 61,122; June 20.
- Schwartz, Samuel R. (See Bostroem, August, assignor.)
- Schwartz, Samuel R. (See Schwartz, S. R., and Bostroem, assignors.)
- Schweikowski, Leo, Garrett, Pa. Puzzle game. No. 60,738; Mar. 28.
- Schwerin, Harry, Brooklyn, N. Y. Footwear. No. 60,708; Mar. 21.
- Schverin, Harry, Brooklyn, N. Y. Footwear. Nos. 61,382-3; Aug. 15.
- Schwinger, Mae H., San Fernando, assignor of one-half to Fannie M. Bailard, Carpinteria, Calif. Statuette. No. 60,884; Apr. 18.
- Scottford, Baron H., Atlantic City, N. J. Dress. No. 60,269; Jan. 17.
- Scott-Ullman Company. (See Poritz, Frederick M., assignor.)
- Scott-Ullman Company, The. (See Ullman, Albert, assignor.)
- Seamless Rubber Company, The. (See Dodge, Frank W., assignor.)
- Sears, Roebuck and Co. (See Jiranek, Otto A., assignor.)
- Sebring Pottery Co. (See Guenthermann, Hans, assignor.)
- Sebulske, Frederick C., assignor to Sunny Line Appliances, Incorporated, Detroit, Mich. Washing-machine frame. No. 60,430; Feb. 14.
- Secker, Raymond, Wheaton, Ill. Direction signal and tail light for motor vehicles. No. 61,609; Oct. 24.
- Segal Metal Products Company. (See Segal, Samuel, assignor.)
- Segal, Samuel, assignor to Segal Metal Products Company, Inc., New York, N. Y. Lock casing. No. 60,379; Feb. 7.
- Seiger, M., & Son. (See Seiger, Morris, assignor.)
- Seiger, Morris, assignor to M. Seiger and S. Seiger, doing business as M. Seiger & Son, New York, N. Y. Ring or similar article of manufacture. No. 61,717; Dec. 12.
- Seiger, Simon. (See Seiger, Morris, assignor.)
- Seiss, George J., Toledo, Ohio. Ash-tray cover. No. 60,824; Apr. 11.
- Seth Thomas Clock Co. (See Macomber, Lewis E., assignor.)
- Seth Thomas Clock Co. (See Weidman, Frederick A., assignor.)
- Shapiro, Barnett, Sea Gate, N. Y., assignor to Hightstown Mfg. Co., Inc., Hightstown, N. J. Lace. No. 61,401; Aug. 22.
- Shardlow, Harry, Los Angeles, Calif., assignor to Solar Illuminating Co., Chicago, Ill. Lighting fixture. Nos. 60,921-2; Apr. 25.
- Sharp, Frank W., Columbus, Ohio. Doll. No. 61,022; May 30.
- Shawe, Edith M., Huntington, N. Y. Doll. No. 61,052; June 6.

Alphabetical list of patentees of designs—Continued.

- Shedd, Charles A., assignor to Walden Worcester, Inc., Worcester, Mass. Automobile wrench. No. 60,270; Jan. 17.
- Shenk, Abraham H., Joliet, Ill. Toy. No. 61,214; July 11.
- Shepard Art Metal Company. (See Greene, Frederick E., assignor.)
- Shields, Lowell W., assignor to Hickock Manufacturing Company, Inc., Rochester, N. Y. Belt-buckle frame. Nos. 61,745-6; Dec. 26.
- Shiman Bros. & Co. Inc. (See Shiman, David, assignor.)
- Shiman, David, assignor to Shiman Bros. & Co. Inc., New York, N. Y. Finger ring. No. 61,280; July 25.
- Shirley, Allen L., Oakland, Calif. Bank. No. 60,739; Mar. 28.
- Shoemaker, John F., assignor to Protectu Corporation, Chicago, Ill. Safety paper for checks, drafts, or negotiable instruments. No. 61,332; Aug. 1.
- Shrum, William H. V., Columbus, Ohio. Flying toy. No. 60,825; Apr. 11.
- Siderman, Louis, Detroit, Mich. Stocking. No. 60,740; Mar. 28.
- Sieben, Henry, Kansas City, Mo. Electric heater. No. 61,728; Dec. 19.
- Sigeske, William, Philadelphia, Pa. Gas burner. No. 60,271; Jan. 17.
- Silliman, William F., Philadelphia, Pa. Cradle chair. No. 60,966; May 16.
- Silverman, Philip, New York, N. Y. Leather, skin, fabric, or article of similar nature. No. 61,610; Oct. 24.
- Simmons, Ada S., assignor of one-half to M. M. Zimmerman, Kansas City, Mo. Doll. No. 61,002; May 23.
- Simmons Company. (See Stuart, Charles A., assignor.)
- Simmons, William D. M., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Badge. No. 61,691; Nov. 21.
- Simon, Maurice, St. Louis, Mo. Automobile radiator cap. Nos. 60,177-8; Jan. 3.
- Simon, Maurice, St. Louis, Mo. Automobile radiator cap. No. 60,380; Feb. 7.
- Simplex Rubber Company. (See Quinn, Gilbert F., assignor.)
- Simpson, Leslie H., Springfield, Ill. Armrest for automobiles. No. 60,577; Mar. 7.
- Sisk, George W., assignor to J. W. Masburn, Kansas City, Mo. Doll or statuette. No. 61,176; July 4.
- Sisson, Colville B., Providence, R. I. Toy or similar article. No. 60,741; Mar. 28.
- Slater, Mabel H., New York, N. Y. Smoking doll. No. 61,145; June 27.
- Sleeman, George E., Toronto, Ontario, Canada. Statuette or doll. No. 61,611; Oct. 24.
- Slocum, Charles D., Topeka, Kans. Smoker's stand. No. 60,967; May 16.
- Slotoroff, Abraham, Brooklyn, assignor to Sasco Knitted Hat Company, New York, N. Y. Cap. No. 60,272; Jan. 17.
- Slotoroff, Abraham, assignor to L. Slotoroff, Brooklyn, N. Y. Cap. No. 61,053; June 6.
- Slotoroff, Lena. (See Slotoroff, Abraham, assignor.)
- Smart, Howard E., Omaha, Nebr. Emblem or badge. No. 61,452; Sept. 5.
- Smedley, Thomas H., Long Eaton, England, assignor to Richmond Lace Works, Alton, R. I. Lace. No. 61,177; July 4.
- Smith, Alexander, & Sons Carpet Company. (See Berry, James H., assignor.)
- Smith, Charles F., assignor to Landers, Frary & Clark, New Britain, Conn. Vacuum cleaner. No. 60,471; Feb. 21.
- Smith, Charles F., and G. E. Curtiss, New Britain, Conn. Electric heater. No. 60,968; May 16.
- Smith, Charles H., Boston, Mass. Clock front. No. 60,273; Jan. 17.
- Smith, De Lancy W., assignor to Linko Motor Association, Pueblo, Colo. Badge or emblem. No. 60,578; Mar. 7.
- Smith, Eugene H. H., New York, N. Y., and I. V., Glastonbury, Conn. Spoon or similar article. No. 61,612; Oct. 24.
- Smith, Frederick K., New York, N. Y. Bottle. No. 60,472; Feb. 21.
- Smith, Irving V. (See Smith, Eugene H. H. and I. V.)
- Smith, Isaac T., Rocky Mount, N. C. Back of playing cards. No. 61,352; Aug. 8.
- Smith, Isidore P., Chicago, Ill. Automobile tire. No. 61,333; Aug. 1.
- Smith, Melvin R., Toledo, Ohio. Hot-water bottle. No. 60,179; Jan. 3.
- Solar Illuminating Co. (See Shardlow, Harry, assignor.)
- Sommer, Robert M., New York, N. Y. Hand bag or article of similar nature. No. 61,668; Nov. 14.
- Sonora, Inc. (See Wolff, Joseph, assignor.)
- Sonora Phonograph Corporation. (See Wolff, Joseph, assignor.)
- Southern Glass Company. (See Marble, William B., assignor.)
- Spencer, Guy L., Cleveland, Ohio. Rubber-heel tread. No. 60,473; Feb. 21.
- Sprague, Rollin H., Monroe, Mich. Name stamp. No. 60,274; Jan. 17.
- Srds, John, Philadelphia, Pa. Picture frame. No. 60,742; Mar. 28.
- Standard Four Tire Company. (See Gabeline, Jacob B., assignor.)
- Standard Wall Paper Co. (See Ericson, Emile, assignor.)
- Standard Wall Paper Company. (See Wagner, Paul K., assignor.)
- Stanwood Equipment Company. (See Stanwood, Frank II., assignor.)
- Stanwood, Frank H., Wilmette, assignor to Stanwood Equipment Company, Chicago, Ill. Step plate. No. 60,885; Apr. 18.
- Stanwood Rubber Company. (See Hutchens, R. W., and Woodard, assignors.)
- Star Chandelier Company. (See Poritz, Frederick M., assignor.)
- Star Watch Case Co. (See Hermann, Frederick J., assignor.)
- Stark, Alfred, assignor to Dallas Brass & Copper Co., Chicago, Ill. Lighting fixture. No. 60,381; Feb. 7.
- Stark, Alfred, assignor to Dallas Brass & Copper Co., Chicago, Ill. Lighting fixture. No. 60,382; Feb. 7.
- Starr Piano Company. (See Mayer, Fred G., assignor.)
- Stearcy, Frank H., York, Pa. Toy. No. 61,484; Sept. 12.
- Steeple, Reginald C., Spokane, Wash., assignor to Friedley-Voshardt Co., Chicago, Ill. Flush switch plate. No. 60,383; Feb. 7.
- Steffen, Adolf, assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Art metal shade frame. No. 61,178; July 4.
- Steffen, Adolf, assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Electric portable lighting fixture. No. 61,427; Aug. 29.
- Steinberger, Louis, Jersey City, N. J. Bottle. No. 61,669; Nov. 14.
- Steinberger, Robert. (See Lohl, M., and Steinberger.)
- Steinbrenner, George E., Irvington, assignor to Hanzl & Steinbrenner, Newark, N. J. Finger ring, badge, emblem, pin, or similar article. No. 61,123; June 20.
- Steinfeld Bros. (See Gannon, Joseph, assignor.)
- Stengel, George J., assignor to Alexander Smith & Sons Carpet Company, Yonkers, N. Y. Rug. No. 60,474; Feb. 21.
- Sterling Bronze Co. (See De Kosenko, Stepan, assignor.)
- Sterling Bronze Company. (See Roth, Louis, assignor.)
- Stern, Marcus, assignor to Doehler Die Casting Company, Brooklyn, N. Y. Tray. No. 61,353; Aug. 8.
- Stevens, Edward C., assignor to The Duttenhofer-Stevens Company, Cincinnati, Ohio. Shoe sole. No. 60,743; Mar. 28.
- Stewart, William J., Philadelphia, Pa. Badge, button, or article of similar nature. No. 61,124; June 20.
- Stieger, Bennie, New York, N. Y. Lighting-fixture member or article of similar nature. No. 60,502; Feb. 28.
- Stimpson, Walter F., Louisville, Ky. Scale frame. No. 61,546; Oct. 17.
- Stone, Lewis J., assignor to Worcester Pressed Aluminum Company, Worcester, Mass. Clip. No. 60,275; Jan. 17.
- Strahan, George V., Newark, N. J., and F. W. Mathieu, assignors to Mitchell Vance Co., Inc., New York, N. Y. Surface ornamentation for a lamp shade or similar article. Nos. 60,475-8; Feb. 21.
- Strang, Maybel S., San Francisco, Calif. Child's bonnet. No. 60,886; Apr. 18.
- Strasser, William, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 60,579-86; Mar. 7.
- Strasser, William, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 60,826-34; Apr. 11.
- Strasser, William, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 61,281-4; July 25.
- Striker, Robert C., Brooklyn, N. Y. Novelty game device. No. 60,587; Mar. 7.
- Stuart, Charles A., assignor to Simmons Company, Kenosha, Wis. Grille for bedstead frames. Nos. 61,547-8; Oct. 17.
- Stuart, Charles A., assignor to Simmons Company, Kenosha, Wis. Bedstead frame. Nos. 61,549-50; Oct. 17.
- Sturdivant, Clyde E., Tamaroa, Ill. Advertising picture exhibitor. No. 61,551; Oct. 17.
- Sundstrand, Carl A., Rockford, Ill. Child's vehicle. No. 60,969; May 16.
- Sunny Line Appliances, Incorporated. (See Sebulske, Frederick C., assignor.)
- Supporter, James W. (See Pardee, H. S., Dewire, and Supporter.)
- Supreme Pyramid Ancient Egyptian Order of Scots. (See Brockmann, George R., assignor.)
- Susquehanna Silk Mills. (See Barcl, George, assignor.)
- Susquehanna Silk Mills. (See Bunting, James H., assignor.)
- Susquehanna Silk Mills. (See Eisele, Adolphe, assignor.)
- Susquehanna Silk Mills. (See Katz, Clara, assignor.)
- Susquehanna Silk Mills. (See Krupicka, Ella, assignor.)
- Susquehanna Silk Mills. (See Rothschild, Max, assignor.)
- Susquehanna Silk Mills. (See Rowland, Gladys, assignor.)
- Susquehanna Silk Mills. (See Strasser, William, assignor.)
- Susquehanna Silk Mills. (See Tardy, Viola, assignor.)
- Susquehanna Silk Mills. (See Weiss, Virginia, assignor.)
- Suss, Sander, New York, N. Y. Chair. No. 61,670; Nov. 14.
- Sweeney, J. J., Jewelry Co. (See Marvet, Henri, assignor.)
- Swogger, Herbert L., Wampum, Pa. Shaving cabinet. No. 61,545; Oct. 17.
- Tagliaferri, Orestes, Cincinnati, Ohio. Trimming for wearing apparel. No. 60,835; Apr. 11.

- Tamo, Stephen J., Livermore, Calif. Toy animal. No. 61,485; Sept. 12.
- Tardy, Viola, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 61,285-6; July 25.
- Taylor, Henry H., Milwaukee, Wis. Parking light. No. 61,215; July 11.
- Taylor Instrument Companies. (See Norwood, Harry Y., assignor.)
- Taylor, Thomas, San Francisco, Calif. Broom lock. No. 60,588; Mar. 7.
- Teraszewicz, Boleslaw, et al. (See Yuniewicz, Joseph, assignor.)
- Terrell, Frank J., Waterbury, Conn., assignor to The Hoge Manufacturing Company, Inc., New York, N. Y. Pencil. No. 60,479; Feb. 21.
- Texas Company, The. (See Haskell, Raymond, assignor.)
- Thomas, Clarence C., Providence, R. I. Grave mark. No. 60,836; Apr. 11.
- Thomas, Seth, Clock Co. (See Macomber, Lewis E., assignor.)
- Thomas, Walter, Barry, Wales. Combined knife and fork. No. 60,589; Mar. 7.
- Thompson, George K., Maplewood, N. J., and A. U. Harper, Evanston, Ill., assignors to American Telephone and Telegraph Company. Hand telephone. No. 60,180; Jan. 3.
- Thompson, William L., Indianapolis, Ind. Tire tread. 61,667; Nov. 14.
- Thompson, William L., Indianapolis, Ind. Tire tread. No. 61,671; Nov. 14.
- Tide Water Oil Company. (See Hiss, Henry W., assignor.)
- Timothy, Hugh W., Brooklyn, N. Y. Radiator cap. No. 60,837; Apr. 11.
- Tobler & Hoenig. (See Hoenig, Franz, assignor.)
- Todd, Dudley M., assignor to Dryden Rubber Company, Chicago, Ill. Rubber sole. No. 61,453; Sept. 5.
- Todd, Dudley M., assignor to Dryden Rubber Company, Chicago, Ill. Rubber heel. No. 61,454; Sept. 5.
- Tokarski, Leonard, Harvey, Ill. Kitchen cabinet. No. 61,074; June 13.
- Toledo Scale Company. (See Hapgood, Clarence H., assignor.)
- Tomlinson, Anne E., Paris, France. Child's dress or similar garment. No. 60,590; Mar. 7.
- Tone, S. L., et al., receivers. (See Jones, Pearl N., assignor.)
- Topel, Frank H., Kenosha, Wis. Automobile-radiator ornament, badge, button, or article of similar nature. No. 60,503; Feb. 23.
- Totten, Robert D., Pittsburgh, assignor to McKee Glass Company, Jeannette, Pa. Transparent glass dish. No. 60,181; Jan. 3.
- Towle Manufacturing Company. (See Nock, Harold E., assignor.)
- Trego, Joseph A., Philadelphia, Pa. Brush. No. 60,431; Feb. 14.
- Troegner, Roland S., Akron, Ohio. Tire. No. 60,709; Mar. 21.
- Trout, Charles L., New York, N. Y. Finger ring or similar article. No. 61,402; Aug. 22.
- Trowbridge, Helen F., Upper Montclair, N. J., assignor to E. I. Horsman & Aetna Doll Co., Inc., New York, N. Y. Doll. No. 60,970; May 16.
- Trustman, Solomon, assignor of one-half to A. Emsley, Detroit, Mich. Combined phonograph and lamp stand. No. 61,216; July 11.
- Tubiolo, Anthony. (See Lo Verde, J., and Tubiolo.)
- Tuomey, John, New York, N. Y. Radiator cap ornament for automobiles. No. 61,403; Aug. 22.
- Turrentine, Robert D., Clarksville, Tenn. Pennant. No. 61,125; June 20.
- Tuttle, John C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Resilient tire. No. 61,003; May 23.
- Tuttle, Roy X., Battle Creek, Mich. Paper weight. No. 60,887; Apr. 18.
- Tuttman, Joseph S. (See Lutsky, Bernard, assignor.)
- Tweddie, Charles, Jefferson City, Mo. Boot top. No. 61,404; Aug. 22.
- Tyner, James, New York, N. Y. Bottle. No. 60,591; Mar. 7.
- Tyzack, Raymond, Sheffield, England. Mascot for motor road vehicles. No. 61,692; Nov. 21.
- Ullman, Albert, Cleveland, Ohio. Arm for lighting fixtures. No. 61,655; Nov. 7.
- Ullman, Albert, assignor to The Scott-Ullman Company, Cleveland, Ohio. Lighting fixture. No. 60,182; Jan. 3.
- Ullman, Albert, assignor to The Scott-Ullman Company, Cleveland, Ohio. Arm for lighting fixtures. No. 60,385; Feb. 7.
- Ullman, Joseph B., Washington, D. C. Ring. No. 61,354; Aug. 8.
- Underwood Typewriter Company. (See Simmons, William D. M., assignor.)
- United Drug Company. (See Lane, James H., assignor.)
- United States Rubber Company. (See Heilhecker, Eugene C., assignor.)
- Unmack, Lucy G., Los Angeles, Calif. Candlestick. No. 60,480; Feb. 21.
- Upton, Louis C., assignor to Upton Machine Company, St. Joseph, Mich. Cabinet for a washing machine. No. 60,481; Feb. 21.
- Upton Machine Company. (See Upton, Louis C., assignor.)
- Urban, Oscar W., Washington, D. C. Floor chisel. No. 60,183; Jan. 3.
- Urbanek, Joseph, Chicago, Ill. Picture and mirror frame. Nos. 61,126-7; June 20.
- Urbanek, Joseph, Chicago, Ill. Combination clock, picture, and mirror frame. No. 61,217; July 11.
- Usnoice Refrigerating Corporation. (See Amato, Gennaro A., assignor.)
- Utter, Leon S., Los Angeles, Calif. Tire. No. 60,276; Jan. 17.
- Valenzuela, Bernard, Oakland, Calif. Match safe. No. 60,592; Mar. 7.
- Van Arnam, Leah F., Gloversville, N. Y. Doll. No. 61,613; Oct. 24.
- Van Bergh Silver Plate Company, The. (See Leavenworth, Seth H., assignor.)
- Vanderbeek, Pelham N. (See Vanderbeek, R. W. and P. N.)
- Vanderbeek, Ruth W. and P. N., Denver, Colo. Doll. No. 60,838; Apr. 11.
- Vane, Christy A., assignor to National Automobile Dealers' Association, St. Louis, Mo. Emblem, sign, badge, button, or article of similar nature. No. 61,218; July 11.
- Van Raalte, Arthur, assignor to Van Raalte Company, Inc., New York, N. Y. Textile fabric. No. 60,277; Jan. 17.
- Van Raalte Company. (See Van Raalte, Arthur, assignor.)
- Vanity Fair Silk Mills. (See Gorgas, Howard J., assignor.)
- Van Valin, William B., Los Angeles, Calif. Doll. No. 61,179; July 4.
- Van Valin, William B., Los Angeles, Calif. Baseball-player doll. No. 61,180; July 4.
- Verber, Albert, New York, N. Y. Ring. Nos. 61,054-5; June 6.
- Verber, Albert, New York, N. Y. Ring. No. 61,455; Sept. 5.
- Verber, Albert, New York, N. Y. Ring. Nos. 61,486-7; Sept. 12.
- Verona Tool Works. (See Richardson, Andrew T., assignor.)
- Verona Tool Works. (See Woodings, Emanuel, assignor.)
- Vesta Battery Corporation. (See Augenstein, William C., assignor.)
- Vester, Alfred Sons, Inc. (See Lindemann, Robert F., assignor.)
- Vester, Alfred, Sons, Inc. (See Schulze, John W., assignor.)
- Victor Rubber Company, The. (See Berlin, Harry S., assignor.)
- Victor Rubber Company, The. (See Moriarty, John J., assignor.)
- Villaret, Gustave E., New York, assignor to J. H. White Manufacturing Company, Brooklyn, N. Y. Bracket back. No. 60,710; Mar. 21.
- Wachtel, Joseph, New York, N. Y. Table scarf. Nos. 60,839-40; Apr. 11.
- Wadsworth Watch Case Company. (See Williams, Lois M., assignor.)
- Wagner, Paul K., Berlin, Germany, assignor to Standard Wall Paper Company, Hudson Falls, N. Y. Wall paper. No. 61,634; Oct. 31.
- Waite, Harry W., Somerville, Mass. Service flag, pennant, or similar article. No. 61,128; June 20.
- Walden Worcester, Inc. (See Shedd, Charles A., assignor.)
- Waldo, Algernont H., St. Paul, Minn., assignor to Crex Carpet Company, New York, N. Y. Rug. Nos. 61,004-8; May 23.
- Walker, Frederick W., Royal Oak, assignor to Packard Motor Car Company, Detroit, Mich. Automobile window handle. No. 61,056; June 6.
- Walker, Frederick W., Royal Oak, assignor to Packard Motor Car Company, Detroit, Mich. Handle. No. 61,057; June 6.
- Walker, Herbert E., Chicago, Ill. Combination connector for storage batteries. No. 60,279; Jan. 17.
- Wallace, B., & Sons Mfg. Co. (See Hillbom, Henrik, assignor.)
- Walsh, Vincent, New York, N. Y. Lamp. No. 60,711; Mar. 21.
- Walter, Fred, jr., assignor to Carl Entenmann Jewelry Company, Los Angeles, Calif. Badge, button, emblem, or article of similar nature. No. 61,334; Aug. 1.
- Ward, James E., Springfield, Ohio, assignor to The Chaney Manufacturing Company. Thermometer back. No. 60,298; Jan. 24.
- Ward, James E., assignor to The Chaney Manufacturing Company, Springfield, Ohio. Thermometer. No. 61,428; Aug. 29.
- Warmuth, Joseph, Minneapolis, Minn. Light fixture. No. 61,534; Oct. 3.
- Warner Brothers Company, The. (See Nickerson, Gertrude L., assignor.)
- Warner, Kenneth B., Hartford, Conn. Fraternal button. No. 60,923; Apr. 25.
- Waterman, Harry S., San Francisco, Calif. Auto wheel lock. No. 60,204; Jan. 10.
- Waters, Mazie T., Waco, Tex. Child's soap-bubble apron. No. 61,023; May 30.
- Watson, George W., Boston, Mass. Rubber heel. No. 61,488; Sept. 12.

Alphabetical list of patentees of designs—Continued.

- Watson, Pearl A., Auburn, Ind. Automobile radiator cap. No. 60,841; Apr. 11.
- Way, Harry C., Nashville, Tenn. Grave marker. No. 60,712; Mar. 21.
- Webster, William L., New York, N. Y. Toothbrush handle. No. 60,184; Jan. 3.
- Wedgwood, Josiah & Sons, Incorporated of America. (See Goodwin, John E., assignor.)
- Wegenaar, Louls A., Brooklyn, N. Y. Receptacle for toilet powder and other commodities. Nos. 60,886-7; Feb. 7.
- Weidlich Bros. Mfg. Co., The. (See Flauder, Alfred J., assignor.)
- Weidman, Frederick A., assignor to Seth Thomas Clock Co., Thomaston, Conn. Clock case. No. 61,181; July 4.
- Weille, Beatrice, Los Angeles, Calif. Doll. No. 61,635; Oct. 31.
- Weinberg, Max, Wilkes-Barre, Pa. Finger ring. No. 61,614; Oct. 24.
- Weinberg, Max, Wilkes-Barre, Pa. Finger ring. No. 61,700; Nov. 28.
- Weiner, Leo, Providence, R. I. Charm. No. 60,504; Feb. 28.
- Weiss, Virginia, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 60,842; Apr. 11.
- Weissenborn, Louis, Pasadena, Calif. Chair. No. 60,763; Apr. 4.
- Wellman, Lester R., assignor to Friedley-Voshardt Co., Chicago, Ill. Canopy for lighting fixtures. No. 60,280; Jan. 17.
- Welsbach Company. (See Antrim, William D., assignor.)
- Welsh, John F., jr., Sheridan, Wyo. Candle. No. 61,540; Oct. 10.
- Wendt, Fred H., assignor of one-third to A. Schumaker, Watertown, Wis. Bottle. No. 61,075; June 13.
- Wertin, Clara W., Duluth, Minn. Toy bear, doll, or similar article of manufacture. Nos. 60,432-4; Feb. 14.
- Wescott, Fred A., Corning, N. Y. Motor-vehicle signal. No. 60,593; Mar. 7.
- West, Clifton, London, England. Container for gramophone needles. No. 61,512; Sept. 19.
- West, George R., Pittsburgh, Pa., assignor to The Diamond Match Company, Chicago, Ill. Combination match and ash tray. Nos. 60,281-2; Jan. 17.
- Westcott, Merton E., et al. (See Banker, Daniel G., assignor.)
- Western Reserve Rubber Company, The. (See Witten, Arthur P., assignor.)
- Westervelt, Gladys, New York, N. Y. Statuette. No. 60,482; Feb. 21.
- Westfield Manufacturing Company. (See Fogarty, John P., assignor.)
- Westinghouse Electric Products Company. (See Forshee, Frank F., assignor.)
- Westinghouse Electric Products Company. (See Woodson, James C., assignor.)
- Westinghouse Lamp Company. (See Blackwell, William T., assignor.)
- Weston, Donald M., assignor to Byron Weston Company, Dalton, Mass. Calendar mounting. No. 61,265; July 18.
- Weyman, Charles J., Wheeling, W. Va. Combined shade support and curtain hanger. No. 60,744; Mar. 28.
- Wharton, Edward R., Medford, assignor to Gillette Safety Razor Company, Boston, Mass. Handle for a safety razor. Nos. 60,435-6; Feb. 14.
- Wheary, George H., Racine, Wis. Trunk lock. No. 60,278; Jan. 17.
- Wheelock, Warren, assignor to Dunn Pen Company, New York, N. Y. Advertising device. No. 60,713; Mar. 21.
- Wheelock, Warren, New York, N. Y. Andiron. No. 60,888; Apr. 18.
- White, Charles C., Chicago, Ill. Dressing table. No. 61,747; Dec. 26.
- White, J. H., Manufacturing Company. (See Villaret, Gustave E., assignor.)
- White, May, Newport Beach, Calif. Dress apron. No. 61,182; July 4.
- White & Wyckoff Manufacturing Company. (See Burkhardt, George R., assignor.)
- Whiteman, Owen L., Coxsackie, N. Y. Valve. No. 60,185; Jan. 3.
- Whipple, Harry W., Kansas City, Mo. Plaque. No. 61,219; July 11.
- Whittall, M. J., Associates. (See Haas, Frank A., assignor.)
- Williams, Lois M., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watchcase crown. No. 61,456; Sept. 5.
- Williams, Lois M., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watchcase bow. Nos. 61,490-1; Sept. 12.
- Williams, Lois M., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watchcase pendant. No. 61,513; Sept. 19.
- Williams, Lois M., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Combination watchcase pendant, bow, and crown. No. 61,636; Oct. 31.
- Willson, Christa E., Zionsville, Ind. Pincushion. No. 61,525; Sept. 26.
- Wimelbacher & Rice. (See Rice, Jerome, assignor.)
- Winslow Bros. & Smith Co. (See Brandt, Carl, assignor.)
- Winters, Frederick V., New York, N. Y. Tire tread. No. 60,389; Feb. 7.
- Wire Goods Manufacturing Company. (See Meyer, Jai-pern, assignor.)
- Witcombe, McGeachin & Co. (See Davignon, Albert, assignor.)
- Witcombe, McGeachin & Co. (See Gaudioz, Edmond, assignor.)
- Witcombe, McGeachin & Co. (See Hunton, William G., assignor.)
- Witherell, Earl M., Duluth, Minn. Legging. No. 60,595; Mar. 7.
- Witten, Arthur P., assignor to The Western Reserve Rubber Company, Akron, Ohio. Toy balloon. No. 60,971; May 16.
- Witzberger, Etienne, Carnegie, Pa. Heater. No. 61,489; Sept. 12.
- Witzberger, Etienne, Carnegie, Pa. Reflector heater. No. 61,672; Nov. 14.
- Witzberger, Etienne, Carnegie, Pa., assignor to Witzberger Heating Appliances Company. Heater. No. 60,390; Feb. 7.
- Witzberger Heating Appliances Company. (See Witzberger, Etienne, assignor.)
- Woerner, William P., Lancaster, Pa. Toy cane. No. 61,552; Oct. 17.
- Wolfe, Aaron H., New York, N. Y. Gas heater. No. 60,635; Mar. 14.
- Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation. Phonograph cabinet. No. 60,594; Mar. 7.
- Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora, Inc. Phonograph cabinet. No. 61,183; July 4.
- Wolk, Samuel, Dorchester, Mass. Toy whistle. No. 60,437; Feb. 14.
- Wolkow, I. L., Louisville, Ky. Radiator cap. No. 60,391; Feb. 7.
- Wolter, Herman H., assignor to Edward Miller & Company, Meriden, Conn. Lamp. Nos. 61,526-7; Sept. 26.
- Wonsowicz, George, assignor of one-half to H. J. Rakicki, Forks, N. Y. Curtain and shade bracket. No. 61,024; May 30.
- Wood, James J., Fort Wayne, Ind., assignor to General Electric Company. Combination washing machine, tub, and frame. No. 60,843; Apr. 11.
- Woodard, Stanley P. (See Hutchens, R. W., and Woodard.)
- Woodbury, Charles P., Kansas City, Mo. Charm, emblem, badge, button, or article of similar nature. No. 61,429; Aug. 29.
- Woodrow, Frank S., New York, N. Y. Advertising device. No. 61,457; Sept. 5.
- Woods, Vonnice W., Portland, Oreg. Souvenir wall hanging or plaque. No. 60,714; Mar. 21.
- Woodson, James C., Mansfield, Ohio, assignor to Westinghouse Electric Products Company. Automatic electric bake oven. No. 60,186; Jan. 3.
- Wool Novelty Co., Inc. (See Goodman, Lillian, assignor.)
- Worcester Pressed Aluminum Company. (See Stone, Lewis J., assignor.)
- Worobow, David, Chicago, Ill. Smoker's stand. No. 60,715; Mar. 21.
- Worth, Paul, Akron, assignor to The India Tire and Rubber Company, Mogadore, Ohio. Tire tread. No. 61,458; Sept. 5.
- Worth, Paul, Akron, assignor to The India Tire and Rubber Company, Mogadore, Ohio. Tire tread. No. 61,553; Oct. 17.
- Wunsch, Joseph W., Brooklyn, N. Y. Pair of book ends. No. 61,430; Aug. 29.
- Wurm, Henry G., Yonkers, N. Y. Leather, wall paper, or similar article of manufacture. No. 61,184; July 4.
- Yappelli, John and Thomas, Brooklyn, N. Y. Finger ring, fob, scarf pin, or similar article of manufacture. No. 61,129; June 20.
- Yappelli, Thomas. (See Yappelli, John and T.)
- Yokel, Frank, Philadelphia, Pa. Toy bank. No. 61,615; Oct. 24.
- Yokel, Frank, Hartford, Conn., assignor to Dallas Brass & Copper Co., Chicago, Ill. Lighting fixture. No. 60,392; Feb. 7.
- Yokel, Frank, Hartford, Conn., assignor to Dallas Brass & Copper Co., Chicago, Ill. Lighting fixture. No. 61,431; Aug. 29.
- York, Margaret A., New York, N. Y. Child's costumer. No. 61,524; Sept. 26.
- Young, Chester A., St. Joseph, Mo. Educational chart. No. 60,844; Apr. 11.
- Yuniewicz, Joseph, Shenandoah, Pa., assignor of one-third to R. Teraszewicz and one-third to J. Bartuzi, Beaver Valley, Pa. Shade-roller holder. No. 60,745; Mar. 28.
- Zawistowski, Martin, Brooklyn, N. Y. Casing for a cloth-cutting machine. No. 60,500; Jan. 24.
- Zeglen, Casimir, Chicago, Ill. Tire. No. 61,025; May 30.
- Zelony, Emanuel, New York, N. Y. Phonograph cabinet. No. 60,845; Apr. 11.
- Zettler, Emil, assignor to James B. Clow & Sons, Chicago, Ill. Gas heater. No. 61,514; Sept. 19.
- Zimmerman, Marguerite M. (See Simmons, Ada S., assignor.)
- Zouri Drawn Metals Company. (See Murnane, Daniel J., Jr., assignor.)
- Zwick, Frank, Quincy, Ill. Illuminated sign. No. 61,528; Sept. 26.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

- A. A. A. Coal & Supply Co. (See Stryker, William H.)
A-C Electrical Manufacturing Company, The, Dayton, Ohio. Certain electrical apparatus. No. 161,007; Oct. 31.
A-C Electrical Manufacturing Co., The, Dayton, Ohio. Radio apparatus. No. 162,947; Dec. 26.
A. & J. Manufacturing Co., The, Binghamton, N. Y. Certain spoons and kitchen tools. No. 162,028; Dec. 5.
A. K. S. Jewelry Mfg. Co., The, New York, N. Y. Finger rings, bracelets, brooches, and bar pins. No. 162,277; Dec. 12.
A. O. J. Tool Company, Coldwater, Mich. Shock pneumatic tools and hand tools. No. 159,245; Sept. 26.
A/S Gadus, Christiania, Norway. Cod-liver oil. No. 157,810; Aug. 15.
A/S Landbrugsmaskin-Kompagniet (The Agricultural Machinery Co. Ltd.), Copenhagen, Denmark. Tractors, explosion and wind motors, etc. No. 153,779; Mar. 28.
A/S Trondhjem Canning and Export Co., Trondhjem, Norway. Canned fish. No. 154,812; May 9.
A/S Tuborgs Fabrikker, Hellerup, near Copenhagen, Denmark. Nonalcoholic maltless beverage. No. 158,120; Aug. 22.
A/S United Sardine Factories, Bergen, Norway. Canned foods of smoked or salted fish or herring. No. 159,135; Sept. 19.
A. W. Overall Company, The, Cleveland, Ohio. Overalls and work shirts. No. 161,248; Nov. 7.
Aachener Thermalwasser "Kaiserbrunnen," Aktiengesellschaft, Aachen, Aix-la-Chapelle, Germany. Certain medicinal and toilet preparations. No. 160,353; Oct. 24.
Aaron-Fleischer Silk Co., St. Louis, Mo. Silks, both in the piece and the bolt. No. 157,630; Aug. 15.
Aaron, Israel, New York, N. Y. Little cigars. No. 157,444; Aug. 8.
Aarons & Homes, New York, N. Y. Women's, girls', and misses' dresses, suits, coats, etc. No. 161,034; Nov. 7.
Abbot Jacket Manufacturing Company, St. Louis, Mo. Workmen's one-piece overall suits. No. 157,631; Aug. 15.
Abbott, A. Theo., & Co., Philadelphia, Pa. Fiber fabric imitating silk. No. 155,185; May 23.
Abbott, Frank W., Corporation, New York, N. Y. Ladies' hats. No. 160,119; Oct. 17.
Abbott Hardware Co., New York, N. Y. Chemical preparation for cleaning, deodorizing, and disinfecting garbage cans, etc. No. 158,167; Aug. 29.
Abbott Shoe Company, North Reading, Mass. Boots, shoes, and slippers. No. 154,464; Apr. 18.
Abbott Shoe Co., North Reading, Mass. Boots, shoes, and slippers. No. 156,974; July 25.
Abdominal Couch Company, St. Louis, Mo. Exercisers for healthful purposes. No. 152,649; Mar. 7.
Abel Bros. & Co., New York, N. Y. Certain jewelry. No. 156,606; July 11.
Abell, Walter, El Campo, Tex. Medicinal preparation for treatment of loin disease in cattle. No. 158,875; Sept. 19.
Aberdeen Candies, Boston, Mass. Candy. No. 152,650; Mar. 7.
Aberfoyle Mfg. Co., Chester, Pa. Dress fabrics in the piece. No. 154,211; Apr. 11.
Abner-Drury Company, Washington, D. C. Ginger ale. No. 157,842; Aug. 22.
Abner-Drury Company, Washington, D. C. Ginger ale. No. 158,371; Sept. 5.
Abner-Drury Company, Washington, D. C. Ginger ale. No. 160,175; Oct. 17.
Aboussleman, Joseph M., doing business as Youth-Ami Laboratories, New York, N. Y. Toilet preparations. No. 161,035; Nov. 7.
Abowitch, Solomon, Brooklyn, N. Y. Medicine for relief of pain after an extraction. No. 156,153; June 20.
Abraham & Straus, Inc., Brooklyn, N. Y. Coffee. No. 160,354; Oct. 24.
Abrahams, Leo M., New York, N. Y. Condensed milk. Nos. 154,465-6; Apr. 18.
Abramovitz & Schwartz, New York, N. Y. Trunks. No. 151,309; Jan. 31.
Abrams, Herman C., Jackson, Miss. Gas lamps. No. 151,063; Jan. 24.
Abrams, Saul D., Boston, Mass. Certain foods and ingredients of foods. No. 153,569; Mar. 21.
Abrams Trunk Co., Chicago, Ill. Hand trunks, bags for travelers and others, and suitcases. No. 158,588; Sept. 12.
Abbeck, Louis, doing business as The Sealastic Co., Brooklyn, N. Y. Asphalt liquid roof coating, plastic cement, calking and glazing cement, and boiler coating. No. 162,462; Dec. 19.
Abshear, Charles D., doing business as National Laboratories, San Antonio, Tex. Liver medicine in the form of capsules. No. 157,843; Aug. 22.
Absorene Manufacturing Company, The, St. Louis, Mo. Wall-paper cleaner. No. 159,246; Sept. 26.
Accumulatoren-Fabrik Actiengesellschaft, Berlin, Germany. Electric accumulators and parts thereof. Nos. 153,090-1; Mar. 14.
Ace Specialties Corp., New York, N. Y. Sanitary napkins, aprons, belts, and diapers, and surgeons' rubber gloves. No. 154,854; May 16.
Acheson-Harden Co., The, New York, N. Y. Handkerchiefs. No. 157,844; Aug. 22.
Acheson Manufacturing Company, Rankin, Pa. Cocks, ball cocks, and Mansfield ball cocks. No. 161,734; Nov. 21.
Ackermite Company of America, Reno, Nev. Bearing metal in pig form. No. 160,355; Oct. 24.
Ackswell Mfg. & Sales Co. Inc., Northport, N. Y. Oil valves. No. 159,247; Sept. 26.
Acme Abrasive Company, Chicago, Ill. Grinding and polishing stones. No. 155,134; May 16.
Acme Abrasive Company, Chicago, Ill. Grinding and polishing stones. No. 162,461; Dec. 19.
Acme Apparatus Company, Cambridge, Mass. Radio receiving sets. No. 158,372; Sept. 5.
Acme Belting Company, Boston, Mass. Oil gauges. No. 150,699; Jan. 10.
Acme Broom Company, Chicago, Ill. Brooms, whisk brooms, and dusting brushes. No. 161,997; Nov. 28.
Acme Cracker Co., Chicago, Ill. Cakes. No. 162,662; Dec. 26.
Acme Die Casting Corporation, Brooklyn and New York, N. Y. Nonferrous castings. No. 153,093; Mar. 14.
Acme Fishing Tool Company, Parkersburg, W. Va. Oil-well drilling and fishing tools. No. 150,700; Jan. 10.
Acme Grease & Oil Manufacturing Co., The, Cleveland, Ohio. Lubricating oil. No. 20,226; renewed Oct. 13, 1921.
Acme Import & Export Company, Inc., San Francisco, Calif. Can openers. No. 153,635; Mar. 28.
Acme Machine Tool Co., The, Cincinnati, Ohio. Machine tools. No. 155,186; May 23.
Acme Manufacturing Works, San Francisco, Calif. Pistons and internal-combustion engines. No. 154,212; Apr. 11.
Acme Screen Company, Dallas, Tex. Window and door screens. No. 154,855; May 16.
Acme Shear Company, The, Bridgeport, Conn. Cast-iron scissors and shears. No. 153,092; Mar. 14.
Acme Shear Company, The, Bridgeport, Conn. Scissors and shears. No. 154,856; May 16.
Acme Shear Company, The, Bridgeport, Conn. Scissors and shears. No. 156,605; July 11.
Acme Shear Company, The, Bridgeport, Conn. Scissors and shears. No. 159,248; Sept. 26.
Acme Shear Company, The, Bridgeport, Conn. Shears and scissors. No. 160,078; Oct. 10.
Acme Universal Joint Mfg. Co., Kalamazoo, Mich. Universal joints. No. 152,557; Feb. 28.
Acme White Lead & Color Works, Hamtramck, Mich. Insecticides, fungicides, disinfectants, cattle spray, etc. No. 161,036; Nov. 7.
Acosta, Blas, Jr., New York, N. Y. Preparation for certain named purposes. No. 150,210; Jan. 3.
Actien-Gesellschaft Fur Anilin Fabrikation, Berlin, Germany. Chemical preparation for use in photography. No. 20,518; renewed Dec. 29, 1921.
Adam Int-Hout, Chicago, Ill. Mixture for making pies, puddings, custards, and cake filling. No. 158,975; July 25.
Adams, C. C., Cleves, Ohio. Food confection comprising seedless raisins and roasted peanuts. No. 156,828; July 18.
Adams, Franklin P., New York, N. Y. Newspaper column. No. 157,632; Aug. 15.
Adams, Fred D., doing business as Adams Publishing Company, Waterloo, Iowa. Monthly publication. No. 162,463; Dec. 19.
Adams, Harry, New York, N. Y. Preparation for the treatment of rheumatism. No. 156,154; June 20.
Adams, Hattie V., doing business as Azulikit Mfg. Co., Chicago, Ill. Hair tonic and hair pomade. No. 161,037; Nov. 7.
Adams-Morgan Company, Montclair, N. J. Radio apparatus. No. 150,701; Jan. 10.
Adams, Paul M., Co., The, Baltimore, Md. Blotting, toilet, wax, typewriting, legal-cap, and writing paper and envelopes. No. 160,356; Oct. 24.
Adams Publishing Company. (See Adams, Fred D.)
Adams & Hileman, Whitefish, Mont. Salve for piles, catarrh, eczema, etc. No. 152,109; Feb. 21.
Adden, W. L., Mullins, S. C. Salves for skin diseases. No. 160,818; Oct. 31.
Adjuria Incorporated, Washington, D. C., and New York, N. Y. First-aid kits. No. 158,373; Sept. 5.
Adjustable Clamp Company, Chicago, Ill. Hand and screw clamps. No. 160,079; Oct. 10.
Adler, David, & Sons Company, Milwaukee, Wis. Coats, waistcoats, trousers, overcoats. No. 154,467; Apr. 18.

Alphabetical list of registrants of trade-marks—Continued.

- Adler, David, & Sons Co., Milwaukee, Wis. Men's and young men's coats, waistcoats, trousers, and overcoats. No. 156,976; July 25.
- Adler, Wilhelm, Karlsbad, Czechoslovakia. Absorbent charcoal in its raw state. Nos. 159,791-2; Oct. 10.
- Adlerika Company, The, St. Paul, Minn. Certain medicinal preparation. No. 150,211; Jan. 3.
- Address, The, Baltimore, Md. Address labels, letter heads, envelopes, etc. No. 153,955; Apr. 4.
- Advertising Distributors Ass'n, New York, N. Y. Umbrellas. No. 154,468; Apr. 18.
- Admiral Co. (See Sharp, Jerleene B.)
- Adolph Rosenberg & Co. Inc., New York, N. Y. Cotton linings. No. 158,791; Sept. 12.
- Advance Electrotape Company, Indianapolis, Ind. Electrotapes for printing. No. 159,793; Oct. 10.
- Advertiser's Art Studios, Inc., The, Washington, D. C. Advertising letter folders. No. 159,249; Sept. 26.
- Aeckerle, Walter L., Philadelphia, Pa. Purgative. No. 150,212; Jan. 3.
- Aeolian Company, The, New York, N. Y. Perforated music-rolls for player pianos and organs. No. 150,702; Jan. 10.
- Aetna Chemical Company, Worcester, Mass. Toilet preparation for preventing, absorbing, or deodorizing perspiration. No. 152,110; Feb. 21.
- Aetna Nut Co., Southington, Conn. Horseshoe heel and toe calks. No. 151,311; Jan. 31.
- Affiliated Distributors Inc., New York, N. Y. Moving-picture films and stereoscopic projection films. No. 153,636; Mar. 28.
- Affinity Company, Grand Rapids, Mich. Certain toilet preparations. No. 157,298; Aug. 1.
- Agar Manufacturing Corporation, Brooklyn, N. Y. Corrugated shipping containers. No. 154,213; Apr. 11.
- Agol Chemical Company, Washington, D. C. Mouth wash, gargle, or nasal and throat spray. No. 153,637; Mar. 28.
- Agol Chemical Company, Washington, D. C. Headache and neuralgia remedy. No. 153,638; Mar. 28.
- Ahbell Battery Container Corporation, Chicago, Ill. Battery containers. No. 151,415; Feb. 7.
- Ahrens, Edward H., New York, N. Y. Monthly publications. No. 155,187; May 23.
- Aime Baboin & Cie., Lyon, France. Silk net goods in the piece. No. 160,357; Oct. 24.
- Ainsworth, George R., New York, N. Y. Electric-lighting fixtures. No. 156,607; July 11.
- Ainsworth, Harry G., Kentland, Ind. Machinery for controlling the operation of doors. No. 152,334; Feb. 28.
- Air-O-Mix Corporation, The, New York, N. Y. Stirring machines for mixing or aerating liquids or semisolids. Nos. 150,703-4; Jan. 10.
- Air Reduction Company Incorporated, New York, N. Y. Ignition gauge. No. 154,214; Apr. 11.
- Airship Manufacturing Company of America, The, Hammondsport, N. Y. Airship, balloons, etc. No. 153,956; Apr. 4.
- Air-Way Electric Appliance Corporation, The, Toledo, Ohio. Clothes-washing machines and parts thereof. No. 161,391; Nov. 14.
- Aitchison & Company, New York, N. Y. Cases, boxes, and containers for eyeglasses, opera glasses, etc. No. 154,857; May 16.
- Aivory Sox Co., New York, N. Y. Men's cotton, lisle, fiber, and silk hosiery. No. 160,120; Oct. 17.
- Ajax Electric Specialty Company, St. Louis, Mo. Electrical plugs, rosettes, receptacles, and sockets. No. 152,651; Mar. 7.
- Ajax Rope Company, Inc., New York, N. Y. Manila, sisal, wire, and marine-covered wire rope. No. 154,858; May 16.
- Akins, Samuel W., doing business as B. B. Transmission Wood Lining Co., Denver, Colo. Wood brake and wood transmission linings. No. 159,794; Oct. 10.
- Akron Mattress Manufacturing Company, The, Akron, Ohio. Mattresses, springs, pillows. Nos. 158,876-7; Sept. 19.
- Akron-Selle Company, The, Akron, Ohio. Liquid gauges. No. 157,845; Aug. 22.
- Aktiebolaget Abloy Osakeyhtio, Helsingfors, Finland. Locks. Nos. 154,859-60; May 16.
- Aktiebolaget Gerh. Aerns Mekaniska Verkstad, Stockholm, Sweden. Certain pulverous-matter-packing machines, envelop and bag machines, etc. No. 153,639; Mar. 28.
- Aktiebolaget Pastill, Gavle, Sweden. Bronchial pastils. No. 161,676; Nov. 14.
- Aktiebolaget Separator, Stockholm, Sweden. Centrifugal creamers. Nos. 20,967-8; renewed Apr. 12, 1922.
- Aktiengesellschaft Cilandar, Herisau, Switzerland. Cotton, linen, and half-silk piece goods. Nos. 156,977-80; July 25.
- Aktiengesellschaft für Chemische Produkte vormals H. Scheidemann, Berlin, Germany. Cosmetics for promoting the growth of human hair. No. 157,299; Aug. 1.
- Aktiengesellschaft für Chemische Produkte vormals H. Scheidemann, Berlin, Germany. Pharmaceutical preparation for promoting the growth of human hair, wool, and feathers. No. 157,300; Aug. 1.
- Aktiengesellschaft für Textil-Industrie, vormals Dollfus-Mieg & Cie., Mulhausen, Germany, and Belfort and Paris, France; Dollfus-Mieg & Cie., Société Anonyme, successor. Sewing cotton, linen and hemp yarns and thread, jute yarns, silk spun, thrown or sewing, and yarns of wool, worsted, or hair. Nos. 20,543-4; renewed Jan. 5, 1922.
- Aktiengesellschaft für Textil Industrie, vormals Dollfus-Mieg & Cie., Mulhausen, Germany, Belfort and Paris, France, assignor to Dollfus-Mieg & Cie., Société Anonyme. Sewing cotton, linen and hemp yarns and thread, jute yarns, silk spun, thrown or sewing, and yarns of wool, worsted, or hair. No. 20,786; renewed Mar. 1, 1922.
- Aktiengesellschaft für Textil-Industrie, vormals Dollfus-Mieg & Cie., Mulhausen, Germany, Belfort and Paris, France; Dollfus-Mieg & Cie., Société Anonyme, successor. Cotton, linen, silk, woolen, and hair yarns and thread. Nos. 22,384-8; renewed Jan. 31, 1923.
- Aktiengesellschaft Lignose, Berlin, Germany. Explosives, blasting powder, fuses, detonators, etc. No. 157,847; Aug. 22.
- Aktieselskabet de Danske Spritfabrikker, Copenhagen, Denmark. Spirituous liquors. No. 157,846; Aug. 22.
- Alabama Broom and Mattress Co., Huntsville, Ala. Brooms. No. 162,663; Dec. 26.
- Aladdin Cinema Company, Inc., Malone, N. Y. Motion-picture cameras and projectors. No. 156,829; July 18.
- Aladdin Products Company, Chicago, Ill. Shampoos. No. 155,593; June 6.
- Alameda Sugar Company. (See Union Sugar Company.)
- Albemarle Paper Mfg. Co., Richmond, Va. Kraft and manila wrapping, blotting, bond, writing, and tissue paper. No. 151,064; Jan. 24.
- Alberger Heater Company, Buffalo, N. Y. Heaters, coolers, condensers, and heat interchangers. No. 161,677; Nov. 14.
- Alberico, Michele, Cleveland, Ohio. Preparation for the treatment of cancer. No. 160,819; Oct. 31.
- Albers Bros. Milling Co., San Francisco, Calif. Stock feed. No. 161,392; Nov. 14.
- Albers Bros. Milling Co., San Francisco, Calif. Poultry feed. No. 161,862; Nov. 21.
- Albert Phonograph Co., The, Trenton, N. J. Graphophones or talking machines. No. 161,038; Nov. 7.
- Albex Optical Co., Reading, Pa. Ophthalmic mountings and parts thereof. No. 158,168; Aug. 29.
- Alchemic Gold Company, Incorporated, New York, N. Y. Printing ink, ink pigments, and vehicles used with pigments for compounding inks. No. 161,393; Nov. 14.
- Alcohol Fuel Corporation Limited, The, Westminster, London, England. Motor spirit. No. 158,589; Sept. 12.
- Alcohol Fuel Corporation Limited, Westminster, London, England. Motor spirit. No. 161,394; Nov. 14.
- Alcone Knitting Mills, San Francisco, Calif. Men's knitted coats for outer wear. No. 161,395; Nov. 14.
- Alden, Betty, Food Shoppe, Newark, N. J. Candy. No. 152,687; Mar. 7.
- Alden, Walker & Wilde Incorporated, East Weymouth, Mass. Leather shoes. No. 162,147; Dec. 5.
- Aldrich Manufacturing Co., Inc., Buffalo, N. Y. Steam tables, culinary warmers, cookers, etc. No. 150,705; Jan. 10.
- Alexander, Henry F., M. D., Knoxville, Tenn. Certain medicinal preparation. No. 154,215; Apr. 11.
- Alexander, Joe, Montgomery, W. Va. Adhesive for the application of soles to shoes. No. 156,498; June 27.
- Alexander Lumber Company, The, Aurora, Ill. Ready-mixed paints, colors in oil, wood stains, and varnishes. No. 158,590; Sept. 12.
- Alinall Manufacturing Company, Worcester, Mass. Interior wall woodwork finish. No. 158,374; Sept. 5.
- Alinall Manufacturing Company, Worcester, Mass. Sizing for wall painting. No. 161,678; Nov. 14.
- All Saints Cigar Company, Tampa, Fla. Cigars. No. 152,336; Feb. 28.
- Allandale Knitting Mills, Inc., New York, N. Y. Knitted sweaters and scarfs. No. 154,469; Apr. 18.
- Allen Auto Specialty Co., The. Automobile tire covers. No. 154,818; May 9.
- Allen, Benj. F. & Co., Gloucester, Mass. Boneless fish. Nos. 19,311-12; renewed Apr. 14, 1921.
- Allen-Bradley Company, Milwaukee, Wis. Electrical controlling devices. No. 151,417; Feb. 7.
- Allen-Bradley Company, Milwaukee, Wis. Electrical controlling devices of the compression-resistor type. No. 160,820; Oct. 31.
- Allen, Clark J., Minneapolis, Minn. Composition for removing scale from boilers and radiators. No. 156,156; June 20.
- Allen, Edgar & Co. Limited, Sheffield, England. Steel and steel castings and forgings. No. 151,012; Jan. 10.
- Allen, Eugene, Clarion, Iowa. Crank-case oil pipes. No. 153,641; Mar. 28.
- Allen Filter Company, The, Toledo, Ohio. Filters, water coolers, and beverage coolers. No. 153,390; Mar. 21.
- Allen, Joseph, Sheffield, England, assignor to Joseph Allen & Sons, Limited. Cutlery, edge and other tools. Nos. 20,392-3; renewed Nov. 24, 1921.
- Allen-Nugent Co., The, New York, N. Y. Weekly publication. No. 153,391; Mar. 21.

Alphabetical list of registrants of trade-marks—Continued.

- Allen-Qualley Company, St. Paul, Minn. Candy. No. 154,768; May 2.
- Allen-Qualley Company, St. Paul, Minn. Candy. No. 162,664; Dec. 26.
- Allen-Square Company, Spencer, Mass. Leather shoes. No. 155,135; May 16.
- Allen-Squire Company, Spencer, Mass. Leather shoes. No. 161,896; Nov. 14.
- Allen and Clay, Detroit, Mich. External medicines for use in the treatment of rheumatism, neuralgia, etc. No. 161,039; Nov. 7.
- Allen & Sons, Joseph, Limited. (See Allen, Joseph, assignor.) (Renewed.)
- Allen's, N. R., Sons Company, Kenosha, Wis. Leather. No. 153,094; Mar. 14.
- Alliance Stucco Company, The, Alliance, Ohio. Stucco. No. 152,652; Mar. 7.
- Allied Factories Corporation, Kansas City, Mo. Toy wagons. No. 158,591; Sept. 12.
- Allied Golf Company, Chicago, Ill. Golf balls. Nos. 153,642-3; Mar. 28.
- Allied Golf Company, Chicago, Ill. Golf balls. No. 160,121; Oct. 17.
- Allied Labor Press Association, Boston, Mass. Printed books and circulars. No. 155,188; May 23.
- Alligator Oil Clothing Company, St. Louis, Mo. Waterproof clothing. No. 151,065; Jan. 24.
- Alligator Oil Clothing Company, St. Louis, Mo. Waterproof clothing. No. 156,981; July 25.
- Alling and Cory Company, The, Pittsburgh, Pa. Printing and writing bond paper. Nos. 150,706-7; Jan. 10.
- Alling and Cory Company, The, Pittsburgh, Pa. Ledger papers. No. 152,335; Feb. 28.
- Allis-Chalmers Manufacturing Company, Milwaukee and West Allis, Wis. Certain machinery. No. 158,327; Aug. 29.
- Allison-Bedford Co., Chicago, Ill. Canned fruits and vegetables, fruit preserves, table sauces, and dressings, etc. No. 156,830; July 18.
- Allison, J. H., & Co., Chattanooga, Tenn. Pork sausage. No. 162,422; Dec. 12.
- Allison, Jacob, Newark, N. J. Vermin exterminating compound. No. 153,365; Mar. 14.
- Allison, Joseph F., Washington, D. C. Cough medicines. No. 150,214; Jan. 3.
- Allith-Prouty Company, Danville, Ill. Shock absorbers for motor vehicles. No. 153,570; Mar. 21.
- Allman, Walter R., Cleveland, Ohio. Pictures and cartoons published in newspapers and magazines. No. 158,592; Sept. 12.
- Alloy Foundry and Machine Corporation, New Rochelle, N. Y. Step plates. No. 158,169; Aug. 29.
- Aluminum Flake Company, The, Akron, Ohio. Finely divided or pulverized clay product. No. 153,095; Mar. 14.
- Alma Manufacturing Co. of Baltimore City, Baltimore, Md. Suspender buckles, buckles for men's and boys' clothing. No. 158,878; Sept. 19.
- Almetal Manufacturing Company, Maplewood, Mo. Laundry washing machines. No. 152,559; Feb. 28.
- Almetal Manufacturing Company, The, Maplewood, Mo. Laundry washing machines. No. 155,363; May 30.
- Almo Products Co., Inc., New York, N. Y. Certain food products. No. 161,912; Nov. 28.
- Alpa Preserve Co., San Jose, Calif. Macaroni sauce and spaghetti. No. 162,465; Dec. 19.
- Alperin, Benjamin, Red Bank, N. J. Mayonnaise. No. 156,982; July 25.
- Alpha-Lux Company, Inc., New York, N. Y. Rennet extract, rennet powder, rennet tablets, and junket tablets. No. 160,358; Oct. 24.
- Alpina Cheese Co., Burgdorf, Switzerland. Swiss cheese. No. 152,653; Mar. 7.
- Alpine Chocolates Company, Boston, Mass. Candy. No. 152,654; Mar. 7.
- Alpine Chocolates Company, Boston, Mass. Candy. No. 160,359; Oct. 24.
- Alshuler, Charles Manufacturing Company, The, Racine, Wis. Work and dress shirts for men. No. 156,113; June 13.
- Altieri, Joseph, Brooklyn, N. Y. General tonic. No. 161,040; Nov. 7.
- Altman, R., & Co. (See Schweinburg, Emil, assignor.)
- Altorfier Bros. Company, East Peoria, Ill. Ironing machines. No. 152,655; Mar. 7.
- Altwein, Oscar R., Asheville, N. C. Hair-straightening combs. No. 150,213; Jan. 3.
- Aluminum Cooking Utensil Co., The, New Kensington, Pa. Dry paint pigments. No. 151,312; Jan. 31.
- Aluminum Fix Company, The, Cleveland, Ohio. Solder for metals. No. 153,644; Mar. 28.
- Aluminium Walzwerke A.-G., Schaffhausen, Switzerland. Boxes and vases made of aluminum. No. 159,651; Oct. 3.
- Alvarez, Inocencio, Habana, Cuba, assignor to Romeo y Julieta Cigar Company. Cigars. No. 19,585; renewed May 26, 1921.
- Alvarez, Inocencio, Habana, Cuba, assignor to Romeo y Julieta Cigar Factory. Cigars. No. 19,847; renewed July 28, 1921.
- Alvarez, Inocencio, Habana, Cuba, assignor to Romeo y Julieta Cigar Factory. Cigars. No. 19,936; renewed July 28, 1922.
- Alward-Anderson-Southard Co., Chicago, Ill. Hunting and riding coats, vests, and pants. No. 157,633; Aug. 15.
- Alys. (See Wildes, Alice S.)
- Alzamora Julius C., doing business as Super-Glos Mfg. Co., San Francisco, Calif. Certain cleaners, polishes, and dressings. No. 161,008; Oct. 31.
- Ambassador Cap Co., New York, N. Y. Men's and boys' caps and hats. No. 156,983; July 25.
- Ambassador Chocolate Company, Baltimore, Md. Certain named foods. No. 154,775; May 9.
- Ambassador Tire Corporation, New York, N. Y. Pneumatic rubber vehicle tires. No. 159,795; Oct. 10.
- Ambo, Inc., New York, N. Y. Certain articles of clothing. No. 157,445; Aug. 8.
- Ambercrude Products Co. (See Sampson, Gertrude I.)
- Amber-o-latum Laboratory. (See Ketels, John F.)
- Ambler, George A., Winchester, Mass. Tire valves. No. 150,663; Jan. 3.
- Amboy Products Co., Inc., Chicago, Ill. Brooms. No. 151,066; Jan. 24.
- Amboy Products Co., Chicago, Ill. Canned goods, cereals, coffee, etc. No. 153,392; Mar. 21.
- Amco Sales Corporation, Chicago, Ill. Metallic tanks. No. 152,337; Feb. 28.
- American Abrasive Metals Company, New York, N. Y. Stair treads and door saddles. No. 155,916; June 13.
- American Abrasive Metals Company, New York, N. Y. Stair treads and floor plates. No. 159,250; Sept. 26.
- American Abrasive Metals Company, New York, N. Y. Bank-vault lining plates of composite metal. No. 160,860; Oct. 24.
- American Aero Company, The, Chicago, Ill., and South Bend, Ind. Rotary fans. No. 156,157; June 20.
- American Apothecaries Company, New York, N. Y. General tonic and reconstructive. No. 152,112; Feb. 21.
- American Apparel Corporation, New York, N. Y. Frocks. No. 156,090; June 13.
- American Auto Lamp Co., Inc., New York, N. Y. Electric automobile lamps. No. 162,182; Dec. 12.
- American Automatic Lock and Lift Company, San Francisco, Calif. Concealable beds. No. 155,504; June 6.
- American Automobile Association, Washington, D. C., and New York, N. Y. Printed maps, pamphlets, and books. Nos. 155,189-90; May 23.
- American Baptist Publication Society, Philadelphia, Pa.; Boston, Mass.; Chicago, Ill.; St. Louis, Mo.; Los Angeles, Calif.; Kansas City, Kans.; Seattle, Wash., and Toronto, Canada. Published works of a religious nature. No. 162,948; Dec. 26.
- American Bleached Goods Company, New York, N. Y.; Chicago, Ill., and St. Louis, Mo. Cotton goods in the piece. No. 150,708; Jan. 10.
- American Bleached Goods Company, New York, N. Y.; Chicago, Ill., and St. Louis, Mo. Cotton goods in the piece. No. 156,158; June 20.
- American Bleached Goods Company, New York, N. Y.; Chicago, Ill., and St. Louis, Mo. Cotton cloths, fabrics, cloths dyed in the piece, and printed cloths. No. 162,665; Dec. 26.
- American Blower Company, Detroit, Mich. Electrical blowers. No. 155,595; June 6.
- American Bottling & Soda Water Co., San Francisco, Calif. Nonintoxicating, noncereal, maltless fruit beverage and syrups for same. No. 157,848; Aug. 22.
- American Braiding Company, Holyoke, Mass. Shoe and corset laces and braids. No. 156,499; June 27.
- American Brass Company, The, Waterbury, Conn. Tubes made from nonferrous metals and alloys. No. 156,159; June 20.
- American Brass Company, The, Waterbury, Conn. Nonferrous metals and alloys, and products made from same. No. 157,446; Aug. 8.
- American Brass Company, The, Waterbury, Conn. Certain nonferrous metals and alloys and products made therefrom. No. 160,361; Oct. 24.
- American Brewing Company, The, St. Louis, Mo. Beer. No. 20,306; renewed Nov. 3, 1921.
- American Bronze Corporation, Berwyn, Pa. Bushings and bearings. No. 151,418; Feb. 7.
- American Brush Company, Washington, D. C. Nonelectric vacuum cleaners. No. 155,917; June 13.
- American Buckle Company, The, West Haven, Conn. Wire overall loops. No. 162,466; Dec. 19.
- American Calendar Company, The, Greeneville, Tenn. Calendars, an annual publication. No. 155,191; May 23.
- American Carbonic Machinery Company, Wisconsin Rapids, Wis. Refrigerating machinery. No. 151,013; Jan. 10.
- American Cellulose & Chemical Manufacturing Company, Limited, The, New York, N. Y., and Cumberland, Md. Yarns and threads made of silk and also of artificial silk. No. 151,067; Jan. 24.
- American Cellulose & Chemical Manufacturing Company Ltd., New York, N. Y. Certain powders for making molding or casings. No. 160,362; Oct. 24.
- American Celutex Corporation, New York, N. Y. Pyroxylon sheet material, rods, and tubing. No. 151,079; Jan. 24.
- American Chain Company, Inc., New York, N. Y., and Bridgeport, Conn. Certain chains, loops, rings, and hooks, etc. No. 154,861; May 16.

Alphabetical list of registrants of trade-marks—Continued.

- American Chain Company Inc., New York, N. Y., and Fairfield, Conn. Antiskid chains for vehicle wheels. No. 156,160; June 20.
- American Chair Company, Sheboygan, Wis. Household chairs, rockers, tables, beds, dressers, desks, and fiber office furniture. No. 158,879; Sept. 19.
- American Chemical & Drug Company, Inc., Olyphant, Pa. Solidified liniment. No. 157,447; Aug. 8.
- American Chemical Paint Company, Philadelphia, Pa. Barrels with sheet-rubber linings. No. 153,393; Mar. 21.
- American Chemical Paint Company, Philadelphia, Pa. Fluid soldering flux. No. 157,301; Aug. 1.
- American Chemical Works, The, San Francisco, Calif. Noble-metal precipitants. No. 157,849; Aug. 22.
- American Coconut Butter Company, Chicago, Ill., and New York, N. Y. Refined vegetable oil, namely, coconut butter. No. 154,470; Apr. 18.
- American Coconut Butter Company, Chicago, Ill., and New York, N. Y. Coconut oil. No. 154,471; Apr. 18.
- American Coconut Butter Company, Chicago, Ill., and New York, N. Y. Coconut butter. No. 154,472; Apr. 18.
- American Collar Co., Inc., Troy, N. Y. Collars, cuffs, shirts. No. 157,251; July 25.
- American Cotton Oil Company, The, Union Township, Hudson County, N. J., and New York, N. Y. Edible vegetable cottonseed oils. No. 156,608; July 11.
- American Crayon Company, The, Sandusky, Ohio. Dustless crayons. No. 156,984; July 25.
- American Crucible Products Company, The. (See Ryan, Allan C.)
- American Dan Bottle Seal Corporation. (See American Dan Stopper Company, assignor.)
- American Dan Stopper Company, Bridgeport, Conn., assignor to American Dan Bottle Seal Corporation. Bottle caps, seals, or stoppers. No. 153,957; Apr. 4.
- American Display Company, The, Dayton, Ohio. Fishing rod and reel. No. 153,958; Apr. 4.
- American Drug Company, The, Dayton, Ohio. Medicines used as a tonic, stomachic, diuretic, and laxative in stomach, kidney, and liver ills. No. 150,215; Jan. 3.
- American Drug and Chemical Co., Gettysburg, Pa. Toy chemical sets. No. 152,338; Feb. 28.
- American Druggists Syndicate, Long Island City, N. Y. Tooth paste. No. 150,216; Jan. 3.
- American Druggists Syndicate, Long Island City, N. Y. Tooth paste, massage cream, etc. No. 156,161; June 20.
- American Dry Goods Company of New York, New York, N. Y. Neckties. No. 154,425; Apr. 11.
- American Enamel Company, Providence, R. I. Enamel in the nature of a paint for wood and metal. No. 152,656; Mar. 7.
- American Enamel Company, Providence, R. I. Enamel for wood and metal. No. 158,593; Sept. 12.
- American Encaustic Tiling Co. Ltd., Zanesville, Ohio, and New York, N. Y. Ceramic wall, floor, and ceiling tiles and ceramic tiles for use as bathroom fixtures. No. 162,666; Dec. 26.
- American Fabrics Company, The, Bridgeport, Conn. Feather stitch braid and embroidery edging. No. 155,596; June 6.
- American Fastener Company, The, Waterbury, Conn. Snap fasteners. No. 158,594; Sept. 12.
- American Finance & Commerce Company, San Francisco, Calif. Wheat flour. Nos. 151,656-7; Feb. 14.
- American Finance & Commerce Company, San Francisco, Calif. Wheat flour. No. 159,251; Sept. 26.
- American Floor Surfacing Machine Co., Toledo, Ohio. Floor-surfacing machines. No. 153,096; Mar. 14.
- American Fruit Growers of Palestine, Inc., Boston, Mass. Oranges and lemons. No. 152,339; Feb. 28.
- American Fruit Products Company. (See Early, Walter K.)
- American Garment Co., Indianapolis, Ind. Women's and children's aprons, dresses, night gowns, and children's play suits. No. 158,880; Sept. 19.
- American Gas Machine Company, Inc., Albert Lea, Minn. Coke and wood camp stoves. No. 152,560; Feb. 28.
- American Gear Company, Chicago, Ill. Gears and shafts for automobile axles and transmissions. No. 161,735; Nov. 21.
- American Grocers Society, Inc., Newark, N. J. Tea and coffee. No. 151,658; Feb. 14.
- American Hard Rubber Company, New York, N. Y. Combs for the hair. No. 153,394; Mar. 21.
- American Heater Corporation, St. Louis, Mo. Gas water heaters. No. 160,122; Oct. 17.
- American Hide and Leather Company, Chicago, Ill. Leather. No. 150,217; Jan. 3.
- American Hoist & Derrick Co., St. Paul, Minn. Rope clamps. No. 156,609; July 11.
- American Hominy Company, Indianapolis, Ind., and Decatur, Ill. Wheat flour. No. 152,340; Feb. 28.
- American Hominy Company, Indianapolis, Ind., and Decatur, Ill. Corn sirup for food purposes. No. 154,776; May 9.
- American Hominy Company, Indianapolis, Ind., and Decatur, Ill. Table sirup. No. 158,375; Sept. 5.
- American Hominy Company, Indianapolis, Ind. Wheat flour. No. 159,252; Sept. 26.
- American Hominy Company, Indianapolis, Ind., and Decatur, Ill. Malt sugar. No. 160,363; Oct. 24.
- American Hosiery Company, New Britain, Conn. Sweaters for sportsmen's use. No. 154,473; Apr. 18.
- American Hosiery Company, New Britain, Conn. Scarfs. No. 154,474; Apr. 18.
- American Importing Co., New York, N. Y. Ticking. No. 150,709; Jan. 10.
- American Insulator Company, New Freedom, Pa. Insulating composition materials for the manufacture of electrical and heat insulation in molded form, and plastic insulating compositions. No. 159,796; Oct. 10.
- American Kardex Company, Tonawanda, N. Y. Certain indexes and filing devices. No. 151,068; Jan. 24.
- American Laboratories Incorporated, Richmond, Va. General tonic. No. 162,150; Dec. 5.
- American Lady Corset Company. (See Siegel, J., & Co., assignor.)
- American Lady Corset Co., Detroit, Mich. Steels, boning and staying materials. No. 153,366; Mar. 14.
- American Lady Corset Co., Detroit, Mich. Corsets, brassières, corset waists, corset covers, etc. No. 154,475; Apr. 18.
- American Lady Corset Co., Detroit, Mich. Corsets and brassières. No. 154,862; May 16.
- American Lady Corset Co., Detroit, Mich. Brassières, corsets, corset waists, corset covers, dresses, waists, etc. No. 156,091; June 13.
- American Lady Corset Co., Detroit, Mich. Certain articles of clothing. No. 156,092; June 13.
- American Lady Corset Co., Detroit, Mich. Corsets, brassières, corset waists, girdles, hose supporters, dresses, hosiery, and underwear. Nos. 156,093-7; June 13.
- American Lady Corset Co., Detroit, Mich. Corsets. No. 156,793; July 11.
- American Lady Corset Co., Detroit, Mich. Corset waists, brassières, bandeaux, girdles, hose supporters. No. 157,448; Aug. 8.
- American Lady Corset Co., Detroit, Mich. Corsets, brassières, corset waists, hosiery, etc. No. 157,850; Aug. 22.
- American Lady Corset Co., Detroit, Mich. Corsets, corset waists, brassières, bandeaux, etc. No. 160,123; Oct. 17.
- American Lady Corset Co., Detroit, Mich. Corsets, brassières, corset waists, bandeaux, etc. No. 161,041; Nov. 7.
- American Lady Corset Co., Detroit, Mich. Corsets, brassières, corset waists, girdles, hose supporters, etc. No. 161,998; Nov. 28.
- American Lady Corset Co., Detroit, Mich. Corsets, brassières, girdles, belts, etc. No. 162,467; Dec. 19.
- American Laundry Machinery Company, The, Norwood, Ohio. Certain laundry appliances and machines. No. 155,192; May 23.
- American Laundry Machinery Company, The, Norwood, Ohio. Certain laundry appliances and machines. No. 156,610; July 11.
- American Lead Pencil Company, New York, N. Y. Pencils. No. 154,426; Apr. 11.
- American Lead Pencil Company, New York, N. Y. Lead pencils. No. 22,273; renewed Dec. 27, 1922.
- American Linseed Company, New York, N. Y. Linseed oil. No. 162,667; Dec. 26.
- American Lumberman, The, Chicago, Ill. Weekly periodical publications. No. 159,253; Sept. 26.
- American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Rope, cord, and twine. No. 152,045; Feb. 14.
- American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Bagging manufactured from jute fiber. No. 161,042; Nov. 7.
- American Metal Parts Mfg. Co., Milwaukee, Wis. Automobile accessories. No. 151,014; Jan. 10.
- American Metal Polish Co., Somerville, Mass. Metal polish. No. 150,710; Jan. 10.
- American Metal Polish Co., Somerville, Mass. Metal polish. No. 155,597; June 6.
- American Metal Polish Co., Somerville, Mass. Metal polish. No. 160,124; Oct. 17.
- American Metals Corporation, Indianapolis, Ind. Vehicle spring snubbers or shock absorbers. No. 153,959; Apr. 4.
- American Milk Products Corporation, New York, N. Y. Canned evaporated milk and canned condensed milk. No. 150,218; Jan. 3.
- American Milk Products Corporation, New York, N. Y. Unsweetened evaporated milk. No. 150,219; Jan. 3.
- American Milk Products Corporation, New York, N. Y. Unsweetened evaporated milk. No. 151,069; Jan. 24.
- American Milk Products Corporation, New York, N. Y. Unsweetened evaporated milk. No. 151,663; Feb. 14.
- American Milk Products Corporation, New York, N. Y. Evaporated milk. Nos. 157,634-5; Aug. 15.
- American Molasses Company of New York, The, New York, N. Y. Table sirup. No. 156,831; July 18.
- American Motor Chemical Corporation, Los Angeles, Calif. Automobile top dressing, mohair dressing, and windshield-vision preparation. No. 162,468; Dec. 19.
- American Naval Uniform Co., Hyde Park, Mass. Naval and army uniforms and hats, men's suits, hats, etc. No. 156,985; July 25.
- American Nickeloid Company, Peru, Ill. Sheet metals made of zinc and nickel or zinc plated with nickel. No. 161,736; Nov. 21.
- American Nonseal Works, Inc., New York, N. Y. Tape-serving device. No. 161,737; Nov. 21.
- American Numbering Machine Company, New York, N. Y. Numbering machines. No. 158,328; Aug. 29.

- American Oil Company. (See Blaustein, Louis.)
 American Oil Company, The, Providence, R. I. Oil used in the treatment of woolen fabrics. No. 153,645; Mar. 28.
 American Oil Company, Peoria, Ill. Gasoline and fuel oil. No. 158,595; Sept. 12.
 American Oil Corporation, Jackson, Mich. Lubricating oils and greases. No. 150,711; Jan. 10.
 American Optical Company, Southbridge, Mass. Optical goods and particularly spectacles, eyeglasses, etc. No. 162,668; Dec. 26.
 American Overall Co., San Antonio, Tex. Overalls, jumpers, pants. No. 161,999; Nov. 28.
 American Overall Mfg. Co., The, Scranton, Pa. Overalls. No. 154,476; Apr. 18.
 American Oyster Company, Providence, R. I. Canned oysters, clams, and chowder. No. 155,306; May 23.
 American Paint & Putty Co., Inc., Boston, Mass. Ready-mixed and paste paint. No. 153,395; Mar. 21.
 American Pine Products Corporation, New York, N. Y. Flotation oil. No. 158,376; Sept. 5.
 American Plastic Products Corporation, The, New York, N. Y. Containers—namely, candy boxes. No. 152,657; Mar. 7.
 American Platinum Works, Newark, N. J. Syringes and hypodermic needles for use in same. No. 154,216; Apr. 11.
 American Poultry Farms, Churubusco, Ind. Live poultry, eggs, and baby chicks. No. 151,659; Feb. 14.
 American Products Company, The. (See Mills Brothers Company.)
 American Products Corporation, Reidsville, N. C. Shoe polishes. No. 161,863; Nov. 21.
 American Radiator Company, East Orange, N. J., and Chicago, Ill. Expansion tanks and heating systems. No. 153,097; Mar. 14.
 American Radiator Company, East Orange, N. J., and Chicago, Ill. Plain thermostats and clock thermostats. No. 161,738; Nov. 21.
 American Radio Sales and Service Company, Mansfield, Ohio. Certain appliances for radio mechanism. No. 156,611; July 11.
 American Refining Company, Boston, Mass. Lubricating grease. No. 154,217; Apr. 11.
 American Releasing Corporation, New York, N. Y. Motion-picture films. No. 161,739; Nov. 21.
 American Safety Razor Corporation, Brooklyn and New York, N. Y. Shaving brushes. No. 154,863; May 16.
 American Safety Razor Corporation, New York and Brooklyn, N. Y. Razors, safety razors, safety-razor blades. No. 156,986; July 25.
 American Safety Razor Corporation, New York and Brooklyn, N. Y. Razor sets. No. 161,740; Nov. 21.
 American Saw Mill Machinery Co., Hackettstown, N. J. Sawmill and woodworking machinery and certain machines and tools. No. 153,912; Mar. 28.
 American Seating Company, Chicago, Ill. Specially-compounded furniture finish. No. 153,098; Mar. 14.
 American Seating Company, Chicago, Ill. Certain church, schools, theater, and office furniture. No. 153,396; Mar. 21.
 American Seed Company, Lancaster, Pa. Vegetable and flower seed. Nos. 151,370-1; Jan. 31.
 American Shearer Manufacturing Company, Nashua, N. H. Certain hair clippers for toilet use. No. 22,067; renewed Nov. 29, 1922.
 American Sheet & Tin Plate Company, Pittsburgh, Pa. Galvanized sheets. No. 160,364; Oct. 24.
 American Soap Company. (See Milleman, William H.)
 American Steel Export Company, New York, N. Y. Electric batteries. No. 152,658; Mar. 7.
 American Steel Foundries, Chicago, Ill. Machinery wheels and gears. No. 156,612; July 11.
 American Steel & Wire Company. (See American Steel & Wire Company of New Jersey.)
 American Steel & Wire Company of New Jersey, The. (See Washburn & Moen Company, assignor.)
 American Steel and Wire Company of New Jersey. Wire fencing. No. 152,561; Feb. 28.
 American Steel & Wire Company of New Jersey, The, Cleveland, Ohio. Wire for pianos and other musical instruments. No. 154,864; May 16.
 American Steel & Wire Company of New Jersey, The, Cleveland, Ohio. Wire rope and cables and aeroplane cables. No. 154,865; May 16.
 American Steel & Wire Company of New Jersey, The, Cleveland, Ohio. Electrical wires, covered or uncovered, and rail bonds. No. 155,598; June 6.
 American Steel & Wire Company of New Jersey, Cleveland, Ohio. Certain aerial tramways and tramway carriers and tools and shafting. No. 155,918; June 13.
 American Steel & Wire Company of New Jersey, The, Cleveland, Ohio. Sulphate of iron. No. 156,162; June 20.
 American Steel and Wire Company of New Jersey, The, Cleveland, Ohio. Horse, mule, and pony shoes and calks. No. 158,597; Sept. 12.
 American Steel & Wire Company of New Jersey, trading as American Steel & Wire Company, Cleveland, Ohio. Certain steel products. No. 159,254; Sept. 26.
 American Steel & Wire Company of New Jersey, The, Cleveland, Ohio. Aerial tramway towers and wire and wire mesh for concrete reinforcement. No. 159,652; Oct. 3.
 American Steel & Wire Company of New Jersey, The, doing business as American Steel & Wire Company, Cleveland, Ohio. Certain hardware. No. 162,027; Dec. 5.
 American Stove Company, St. Louis, Mo. Gas stoves and heaters. No. 160,125; Oct. 17.
 American Stropper Corporation, Baltimore, Md. Mechanical stropers for safety-razor blades. No. 152,113; Feb. 21.
 American Sugar Products Corp., Los Angeles, Calif. Table sirup. No. 151,660; Feb. 14.
 American Sundries Company, Chicago, Ill. Tooth paste. No. 157,851; Aug. 22.
 American-Swiss Watch Co. Inc., Peekskill, N. Y. Watches, watch movements, watchcases, and parts thereof. No. 158,377; Sept. 5.
 American Thread Company, The, Jersey City, N. J. Spool cotton, sewing cotton, thread, and cotton yarn. No. 151,071; Jan. 24.
 American Thread Company, The, Jersey City, N. J. Spool and sewing cotton, thread, cotton yarn. No. 156,987; July 25.
 American Tobacco Co., The, New York, N. Y. Smoking and chewing tobacco. No. 150,712; Jan. 10.
 American Tobacco Company, The, New York, N. Y. Tobacco and cigarettes. No. 150,713; Jan. 10.
 American Tobacco Company, The, New York, N. Y. Tobacco and cigarettes. No. 154,866; May 16.
 American Tobacco Company, The, New York, N. Y. Smoking and chewing tobacco and cigarettes. No. 155,919; June 13.
 American Trading Company of New Orleans, Wilmington, Del., and New York, N. Y. Turpentine. No. 152,659; Mar. 7.
 American Tripoli Company, Seneca, Mo. Filters and filter stone made of tripoli. No. 153,646; Mar. 28.
 American Tripoli Company, Seneca, Mo. Buffing compounds. No. 158,881; Sept. 19.
 American Tube and Stamping Company, The, Bridgeport, Conn. Lifting jacks. No. 162,669; Dec. 26.
 American Universal Coffee Company, Dallas, Tex. Coffee. Nos. 151,661-2; Feb. 14.
 American Universal Coffee Company, Dallas, Tex. Coffee. No. 153,571; Mar. 21.
 American University of Commerce, Chicago, Ill. Manuals, lesson sheets and pamphlets, and answer sheets. No. 154,819; May 9.
 American Wall Paper Co., Chicago, Ill., and Pittsburgh, Pa. Dry, ready-mixed, and paste paints, putty, linseed oil, turpentine, etc. No. 162,183; Dec. 12.
 American Welding Co., St. Louis, Mo. Welding torches. No. 151,291; Jan. 24.
 American Wholesale Corporation, Baltimore and Cumberland, Md. Hunting and work coats. No. 150,664; Jan. 3.
 American Wholesale Corporation, (Baltimore Bargain House), Baltimore, Md. Cut glass, sheet glass, glass tableware, etc. No. 153,099; Mar. 14.
 American Wholesale Corporation, (Baltimore Bargain House), Baltimore, Md. Stationery. No. 153,367; Mar. 14.
 American Wholesale Corporation, (Baltimore Bargain House), Baltimore and Cumberland, Md. Hair nets. No. 153,397; Mar. 21.
 American Wholesale Corporation, (Baltimore Bargain House), Baltimore and Cumberland, Md. Cut and sheet glass, glass tableware, ornamental glassware, etc. No. 153,572; Mar. 21.
 American Wholesale Corporation, (Baltimore Bargain House), Baltimore, Md. Certain notions. No. 153,573; Mar. 21.
 American Wholesale Corporation, (Baltimore Bargain House), Baltimore and Cumberland, Md. Articles of stationery. No. 153,960; Apr. 4.
 American Wholesale Corporation, (Baltimore Bargain House), Baltimore and Cumberland, Md. Hair nets. No. 154,218; Apr. 11.
 American Wholesale Corporation, (Baltimore Bargain House), Baltimore and Cumberland, Md. Men's, women's, and children's underwear, bathings suits. No. 154,477; Apr. 18.
 American Wholesale Corporation, (Baltimore Bargain House), Baltimore and Cumberland, Md. Certain piece goods, table linen, bed linen, hair nets, etc. No. 154,748; Apr. 18.
 American Wholesale Corporation, (Baltimore Bargain House), Baltimore and Cumberland, Md. Certain textile fabrics. No. 155,193; May 23.
 American Wholesale Corporation, (Baltimore Bargain House), Baltimore, Md. Publications (monthly). No. 155,194; May 23.
 American Wholesale Corporation, (Baltimore Bargain House), Baltimore and Cumberland, Md. Certain precious metal ware. No. 155,364; May 30.
 American Wholesale Corporation, (Baltimore Bargain House), Baltimore and Cumberland, Md. Certain articles of clothing. No. 155,920; June 13.
 American Wholesale Corporation, (Baltimore Bargain House), Baltimore and Cumberland, Md. Crockery, cooking utensils and dishes, flowerpots, etc. No. 156,972; July 18.
 American Wholesale Corporation, (Baltimore Bargain House), Baltimore and Cumberland, Md. Children's and misses' garters. Nos. 157,449-50; Aug. 8.

Alphabetical list of registrants of trade-marks—Continued.

- American Wholesale Corporation** (Baltimore Bargain House), Baltimore and Cumberland, Md. Work shirts. No. 158,596; Sept. 12.
- American Wringer Company, The**, Providence, R. I., and New York and Auburn, N. Y. Wringers. No. 21,591; renewed Aug. 9, 1922.
- American Wringer Company, The**, Providence, R. I., and New York and Auburn, N. Y. Wringers. No. 21,593; renewed Aug. 9, 1922.
- American Wringer Company, The**, Providence, R. I., New York and Auburn, N. Y. Wringers. Nos. 22,224-6; renewed Dec. 20, 1922.
- American Writing Paper Company**, Holyoke, Mass. Writing and printing papers and mailing envelopes. Nos. 152,341-2; Feb. 28.
- American Writing Paper Company**, Holyoke, Mass. Writing and printing papers and mailing envelopes. No. 152,562; Feb. 28.
- American Writing Paper Company**, Holyoke, Mass. Writing and printing papers. No. 152,660; Mar. 7.
- American Writing Paper Company**, Holyoke, Mass. Cover paper. No. 152,661; Mar. 7.
- American Writing Paper Company**, Holyoke, Mass. Writing and printing papers and mailing envelopes. No. 153,961; Apr. 4.
- American Writing Paper Company**, Holyoke, Mass. Writing and printing papers, paperette paper, and mailing envelopes. No. 153,962; Apr. 4.
- American Writing Paper Company**, Holyoke, Mass. Writing and printing paper. Nos. 153,963-4; Apr. 4.
- American Writing Paper Company**, Holyoke, Mass. Book paper. No. 153,965; Apr. 4.
- American Writing Paper Company**, Holyoke, Mass. Wedding paper and mailing envelopes. No. 154,191; Apr. 4.
- American Writing Paper Company**, Holyoke, Mass. Wedding paper, announcement cards, and mailing envelopes. No. 156,794; July 11.
- American Writing Paper Company**, Holyoke, Mass. Writing and printing papers. No. 157,451; Aug. 8.
- American Writing Paper Company**, Holyoke, Mass. Writing and printing papers. Nos. 159,255-6; Sept. 26.
- American Zinc Sales Company**, Boston, Mass. Lithopone. No. 162,469; Dec. 19.
- Amertex Mills, Inc.**, The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece. No. 158,598; Sept. 12.
- Amertex Mills, Inc.**, The, Bridgeport, Conn., and New York, N. Y. Women's, children's, and infants' coats, cloaks, wraps, capes, suits, costumes, etc. No. 161,397; Nov. 14.
- Ames**, Fred W., New Orleans, La. Tooth wash. No. 151,419; Feb. 7.
- Ames Harris Neville Co.**, San Francisco, Calif. Tents. No. 153,398; Mar. 21.
- Ames Safety Envelope Company, The**. (See Fitzgerald, John W.)
- Ammenheuser, Anna C.**, New York, N. Y. Hats for women. No. 155,921; June 13.
- Ammidown, Fred D.**, doing business as Fred D. Ammidown & Co., Boston, Mass. Hair nets. No. 158,599; Sept. 12.
- Ammidown, Fred D. & Co.** (See Ammidown, Fred D.)
- Am-O-Meter Company, Inc.**, The, Smithville, Tex. Electric-current detector. No. 156,988; July 25.
- Amoskeag Manufacturing Company**, Manchester, N. H. Bags made of cloth. Nos. 150,220-1; Jan. 3.
- Amoskeag Manufacturing Company**, Manchester, N. H. Bags made of cloth. No. 151,313; Jan. 31.
- Amsterdam, Peter**, trading as The Amsterose Co., Philadelphia, Pa. Preparation used for shaving cream and chapped skin. No. 159,797; Oct. 10.
- Amsterose Co., The**. (See Amsterdam, Peter.)
- Anaconda Copper Mining Company**, Anaconda and Butte, Mont., and New York, N. Y. Fertilizers, those containing phosphate. No. 154,867; May 16.
- Anaheim Bottling Works**, Anaheim, Calif. Maltless carbonated beverages. No. 160,365; Oct. 24.
- Anaheim Citrus Fruit Association**, Anaheim, Calif. Fresh citrus fruits. No. 152,662; Mar. 7.
- Anaheim Manufacturing Company**, Anaheim, Calif. Cereal malt beverage. No. 151,015; Jan. 10.
- Anaheim Sugar Company, Inc.**, Los Angeles, Calif. Sugar. No. 160,366; Oct. 24.
- Anchor Corrugating Construction Co.**, New York, N. Y. Buildings. No. 160,367; Oct. 24.
- Anchor Grip-Heel Company, The**. (See Runyan, Arthur L., assignor.)
- Anchor Packing Company, The**, Philadelphia, Pa. Machinery packing. No. 160,368; Oct. 24.
- Andersen, Marius H.**, Dike, Iowa. Medicinal preparation for cholera, etc., in fowls. No. 156,163; June 20.
- Anderson Box Company**, Anderson, Ind. Shipping and packing boxes for poultry. No. 162,423; Dec. 12.
- Anderson Company, The**, South Bend, Ind. Ignition timers for explosion engines. No. 156,613; July 11.
- Anderson-Dulin-Varnell Co.**, Knoxville, Tenn. Shoes. No. 161,398; Nov. 14.
- Anderson, E. S.**, Company, Gloversville, N. Y. Vegetable slicers and choppers. No. 156,614; July 11.
- Anderson, Hans**, Oakland, Calif. Carpenters' planes. No. 160,126; Oct. 17.
- Anderson, Joseph R.**, Louisville, Ky. Blade sharpening and stropping machines. No. 150,714; Jan. 10.
- Anderson Kate E.**, Baltimore, Md. Photographic prints. No. 162,184; Dec. 12.
- Anderson, M. J.**, Warren, Ind. Insecticide for use on live stock. No. 154,427; Apr. 11.
- Anderson, Robert D. H.**, New York, N. Y. Brackets for electric lamps. No. 155,599; June 6.
- Anderson-Tully Company**, Memphis, Tenn. Lumber. No. 155,922; June 13.
- Anderson, Wm.**, Textile Mfg. Co., New York, N. Y. Certain textile fabrics in the piece. No. 152,114; Feb. 21.
- Andrea, Frank A. D.**, New York, N. Y. Certain radio apparatus. No. 156,615; July 11.
- Andresen, Edward W.**, Chicago, Ill. Bituminous road top dressing. No. 160,369; Oct. 24.
- Andress, Frank M.**, Battle Creek, Mich. Musical instruments and supplies. No. 152,663; Mar. 7.
- Andrews, William W.**, et al., trustees. (See Lowman, Eugene M., assignor.)
- Andrews & Goodrich, Inc.**, Boston, Mass. Air-current drying apparatus for manufacturing and industrial operations. No. 159,257; Sept. 26.
- Angel Dainty Dye Co.**, Chicago, Ill. Cloth dyes. No. 153,648; Mar. 28.
- Angel, H. Reeve & Co., Inc.**, New York, N. Y. Dry mats. No. 160,802; Oct. 24.
- Angel International Corporation**, New York, N. Y. Paper containers, cans, and shipping tubs for butter, lard, etc. No. 158,882; Sept. 19.
- Angell, Elizabeth M.**, Syracuse, N. Y. Compound for certain medicinal uses. Nos. 151,852-3; Aug. 22.
- Angell, James R.**, New Orleans, La. Sirup remedy for coughs and whooping coughs, colds, and bronchitis. No. 151,664; Feb. 14.
- Angert, S. & J. Bros.**, Philadelphia, Pa., and Atlantic City, N. J. Nonalcoholic, noncereal, maltless beverages. No. 157,854; Aug. 22.
- Angier Chemical Co.**, Boston, Mass. Certain medicinal preparation. No. 152,115; Feb. 21.
- Angier Chemical Company**, Boston, Mass. Refined petroleum for internal and external use as a remedy for disease. No. 21,224; renewed May 31, 1922.
- Anheuser-Busch, Incorporated**, St. Louis, Mo. Maltless, carbonated chocolate beverage. No. 151,072; Jan. 24.
- Anheuser-Busch, Incorporated**, St. Louis, Mo. Maltless, carbonated, coffee beverage sold as a soft drink. No. 160,127; Oct. 17.
- Ansbacher & Van Baalen**, New York, N. Y. Hosiery. No. 160,370; Oct. 24.
- Anstadt, C. A.**, doing business as The I. X. L. Drug Company, Ridgway, Pa. Cough sirup. No. 158,378; Sept. 5.
- Anthes, Albert N.**, Fort Madison, Iowa. Shock absorbers for vehicles. No. 152,664; Mar. 7.
- Anthes Force Oiler Company**, Fort Madison, Iowa. Oil cans. No. 151,314; Jan. 31.
- Anthony Company, The**, Long Island City, N. Y. Certain named electrical apparatus. No. 152,563; Feb. 28.
- Anthony Nutype Company Inc.**, assignor, by mesne assignments, to L. R. Meekins, Baltimore, Md. Type cleanser. No. 158,883; Sept. 19.
- Anti-Corrosion Engineering Co. Inc.**, New York, N. Y. Apparatus for treating water or other liquids to render the same noncorrosive. No. 150,715; Jan. 10.
- Antitartar Chemical Company**, Denver, Colo. Dentifrices and gum and tooth remedies. No. 161,043; Nov. 7.
- Anti-Uric Company**, San Francisco, Calif. Rheumatism medicine. No. 153,574; Mar. 21.
- Antonopoulos, John D.**, New York, N. Y. Olive oil, candies, figs, and fresh and dried and canned oranges, pears, and apples. No. 152,665; Mar. 7.
- Antonopoulos, John D.**, doing business as United Nut Stores, New York, N. Y. Nuts, figs, dates, and currants. No. 158,170; Aug. 29.
- Antonsen, Kai**, Chicago, Ill. Maltless soft drinks and sirups for making same. No. 159,258; Sept. 26.
- Apex Coal Company, The**, Fort Smith, Ark. Coal. No. 160,128; Oct. 17.
- Apex Electric Mfg. Company**, Chicago, Ill. Windshield cleaners. No. 153,649; Mar. 28.
- Apex Electrical Manufacturing Co.**, The, Cleveland, Ohio. Electrically-operated dish washers and suction cleaners. No. 162,185; Dec. 12.
- Apfel, Philip F.**, Seattle, Wash. Electric heating units. No. 151,420; Feb. 7.
- Apparel Products Co. Inc.**, New York, N. Y. Ladies', men's, and boys' coats and suits, women's dresses, men's trousers and shirts. No. 158,884; Sept. 19.
- Apple Gum Company, Inc.** (See Kitchell, Joseph G., assignor.)
- Appleton Wood Products Co.**, Appleton, Wis. Cutting-die blocks, cutting blocks, cutting boards, cutting tables, cutting benches, etc. No. 151,372; Jan. 31.
- Arbaugh and Keene**, Portland, Ind. Building blocks. No. 159,711; Oct. 3.
- Arbours, William H.**, Pittsburgh, Pa. Preparation for the treatment of goiters. No. 161,044; Nov. 7.
- Arbuckle Mining Co. Inc.**, Ardmore, Okla., and New York, N. Y. Asphalt and asphaltum. No. 159,653; Oct. 3.
- Arcade Manufacturing Company, The**, Freeport, Ill. Coffee mills. No. 157,613; Aug. 8.
- Arcade Manufacturing Company**, Freeport, Ill. Toy automobiles. No. 162,470; Dec. 19.
- Arcadia, The**. (See Dilas, Harry.)
- Arcadia Food Company**, New York, N. Y. Jelly powders. No. 158,320; Aug. 29.

- Arcadia Trailer Corporation, Newark, N. Y. Truck bodies, trailers, and trailer bodies. No. 159,798; Oct. 10.
- Archer Strauss Rubber Company, Framingham, Mass. Waterproof fabric. No. 153,100; Mar. 14.
- Arecibo Grape Fruit Company, New York, N. Y. Canned grapefruit. No. 157,801; Aug. 15.
- Arend, A., Drug Co., Chicago, Ill. Laxative tablets. No. 151,421; Feb. 7.
- Arend, A., Drug Co., Chicago, Ill. Medicinal preparation for the treatment of the nerves, stomach, etc. No. 157,452; Aug. 8.
- Arend, A., Drug Co., Chicago, Ill. Medicinal preparation for treatment of nerves, stomach, liver, etc. No. 161,045; Nov. 7.
- Arenjay Hat Co. Inc., New York, N. Y. Men's straw hats. No. 156,098; June 13.
- Arensberg, Charles F. C. (See Bowman, G. F., and Arensberg.)
- Argus Manufacturing Company, The, Cleveland, Ohio. Ready-mixed paints, varnish, and paint enamel. No. 161,913; Nov. 28.
- Ark, Barnett, North Adams, Mass. Coats, overcoats, trousers, and knickerbockers. No. 161,046; Nov. 7.
- Arkola Company, The, Little Rock, Ark. Nonalcoholic maltless beverage. No. 155,195; May 23.
- Arlatte & Cie., Cambrai, Nord, France. Chicory. No. 161,741; Nov. 21.
- Arlington Collar and Cuff Co., Arlington, N. J., and New York, N. Y., assignors to E. I. du Pont de Nemours & Company. Waterproof collars and cuffs. No. 20,850; renewed Mar. 15, 1922.
- Arlington Manufacturing Company, The, Arlington, N. J., and New York, N. Y., assignor to E. I. du Pont de Nemours and Company. Material composed wholly or in part of pyroxylyene or its compounds. No. 20,852; renewed Mar. 15, 1922.
- Arlington Refrigerator Company, Inc., Arlington, Vt. Refrigerators. No. 151,073; Jan. 24.
- Arlo Box Company, Oak, Fla. Boxes and packing cases. No. 152,666; Mar. 7.
- Armand Company, The, Des Moines, Iowa. Hair nets. No. 161,742; Nov. 21.
- Armor Oil & Chemical Co., Kansas City, Mo. Lubricating oils and greases. No. 150,222; Jan. 3.
- Armor Oil & Chemical Company, Kansas City, Mo. Ready-mixed paints. No. 153,399; Mar. 21.
- Armour and Company, Chicago, Ill. Certain foods and ingredients of foods. No. 150,665; Jan. 3.
- Armstrong Chemical Company, Washington, D. C. Hair restorative. No. 151,422; Feb. 7.
- Armstrong Cork Company, Pittsburgh, Pa. Linoleum, linoleum cork carpet, and certain floor coverings. No. 158,330; Aug. 29.
- Armstrong Cork Company, Pittsburgh, Pa. Cork tile or tile containing cork or wood pulp as an ingredient thereof. No. 159,162; Sept. 19.
- Armstrong Cork Company, Pittsburgh, Pa. Rubber heels. No. 159,163; Sept. 19.
- Armstrong Cork Company, Pittsburgh, Pa. Cork or cork composition. No. 159,799; Oct. 10.
- Armstrong Cork Company, Pittsburgh, Pa. Gaskets, washers, and packing of cork or cork composition. No. 160,371; Oct. 24.
- Armstrong Cork Company, Pittsburgh and Lancaster, Pa. Rubber heels. No. 161,047; Nov. 7.
- Armstrong, D., & Co. Inc., Rochester, N. Y. Shoes for women. No. 156,989; July 25.
- Armstrong Manufacturing Co., The, Bridgeport, Conn. Pipe vises and stocks and dies for pipe threading. No. 156,990; July 25.
- Armstrong, Nancy V., New York, N. Y. Children's and infants' outdoor overall union suits. No. 154,478; Apr. 18.
- Armstrong, W. A., Paper Co. (See Armstrong, William A.)
- Armstrong, William A., doing business as W. A. Armstrong Paper Co., New York, N. Y. Bleached and unbleached sulphite paper. No. 159,259; Sept. 26.
- Arnessen Electric Co., Inc., Brooklyn, N. Y. Certain marine electrical equipment. No. 155,600; June 6.
- Arnesto Paint Co., Inc., New York, N. Y. Paints for marine and house. No. 155,196; May 23.
- Arneth Company, The, Washington, D. C. Ointment. No. 153,650; Mar. 28.
- Arnold, F. R., & Co., New York, N. Y. Face powder. No. 150,223; Jan. 3.
- Arnold, F. R., & Co., New York, N. Y. Compact powder and rouge. Nos. 150,224-5; Jan. 3.
- Arnold, F. R., & Co., New York, N. Y. Face cream and powder. No. 155,601; June 6.
- Arnold, John H., Princeton, N. J. Instruments for indicating the sex of human beings and animals and of the embryos of eggs. No. 150,716; Jan. 10.
- Arnold, Joseph A., Providence, R. I. Medicinal preparation for hay fever. No. 151,423; Feb. 7.
- Aron, J., & Company, Inc., New York, N. Y. Coffee. No. 150,226; Jan. 3.
- Arrow Company, The, Detroit, Mich. Inhalers used in administering medicines. No. 152,667; Mar. 7.
- Arrow Film Corporation, The, New York, N. Y. Motion pictures. No. 154,868; May 16.
- Arrow Film Corporation, New York, N. Y. Motion-picture films. Nos. 155,197-8; May 23.
- Arrow Film Corporation, New York, N. Y. Motion pictures. No. 158,171; Aug. 29.
- Arrow Knitting Company, The. (See Cohen, Jacob H.)
- Arr Tee Knitting Mills, Philadelphia, Pa. Knitted sweaters. No. 157,855; Aug. 22.
- Art Craft Fixture Co., Newark, N. J. Electric-lighting fixtures. No. 152,668; Mar. 7.
- Art Craft Shops Company, St. Louis, Mo. Certain correspondence paper and envelopes. No. 151,665; Feb. 14.
- Artcraft Leather Goods Company, Boston, Mass. Leather bags, suitcases, pocketbooks. No. 158,600; Sept. 12.
- Art Crayon Co., The, New York, N. Y. Crayons. No. 156,165; June 20.
- Arthur, William H., Stamford, Conn. Laxatives. No. 152,116; Feb. 21.
- Artistic Designers, Inc., Louisville, Ky. Raincoats and sweaters. No. 157,856; Aug. 22.
- Art Metal Toy Company, New Brunswick, N. J. Certain toys. No. 158,379; Sept. 5.
- Art Metal Works, Inc., The, Newark, N. J. Pieces of sparking metal. No. 160,372; Oct. 24.
- Arto Co., The, Orange, N. J. Talking-machine records and music rolls for automatically-played musical instruments. No. 152,669; Mar. 7.
- Aruny, Emanuel, West New Brighton, N. Y. Tapeworm remedy. No. 157,857; Aug. 22.
- Arwood, Sam B., Preacher, Va. Medicinal preparations. No. 150,227; Jan. 3.
- Asbestomine Company, Wenatchee, Wash. Dry-powder and cold-water paints, and powder without pigment for making paint. No. 159,260; Sept. 26.
- Asbestos Ltd., New York, N. Y. Heat-insulating packings. No. 153,101; Mar. 14.
- Ascher, Leopold, New York, N. Y. Leather and hair brushes. No. 152,343; Feb. 28.
- Asensin Company of America, New York, N. Y. Local anaesthetic. No. 155,602; June 6.
- Ash, Claudius, Sons & Company Limited, London, England. Dental apparatus and supplies. No. 152,723; Mar. 7.
- Ash, Claudius, Sons & Company Limited, London, England. Bunsen burners. Nos. 154,247-8; Apr. 11.
- Ashaway Line & Twine Manufacturing Company, Ashaway, R. I. Fishing line. Nos. 153,913-14; Mar. 28.
- Ashaway Line & Twine Manufacturing Company, Ashaway, R. I. Fishing lines. No. 155,307; May 23.
- Ashaway Line & Twine Manufacturing Company, Ashaway, R. I. Fishing line. Nos. 155,365-80; May 30.
- Ashaway Line & Twine Manufacturing Company, Ashaway, R. I. Fishing line. Nos. 155,603-4; June 6.
- Ashaway Line & Twine Manufacturing Company, Ashaway, R. I. Fishing lines. No. 156,099; June 13.
- Ashaway Line & Twine Manufacturing Company, Ashaway, R. I. Fishing line. Nos. 156,166-8; June 20.
- Ashaway Line & Twine Manufacturing Company, Ashaway, R. I. Fishing lines. No. 156,500; June 27.
- Ashaway Line & Twine Manufacturing Company, Ashaway, R. I. Fishing line. No. 158,380; Sept. 5.
- Ashaway Lines & Twine Manufacturing Company, Ashaway, R. I. Fishing line. No. 160,375; Oct. 24.
- Ashcraft-Wilkinson Company, Atlanta, Ga. Cottonseed meal. No. 159,261; Sept. 26.
- Ashcroft, Moses, trading as Moon Chuckle Products Co., Maywood and Chicago, Ill. Nonalcoholic, noncereal, maltless beverage and sirup for making the same. No. 157,858; Aug. 22.
- Asher Manufacturing Company, Irvington, N. J. Laundry machinery. No. 153,966; Apr. 4.
- Ashland Tire and Rubber Company, The, Ashland, Ohio. Certain tires, tubes, and repair parts thereof. No. 151,666; Feb. 14.
- Ashley Railway Safety Tie and Construction Corporation, The, New York, N. Y. Reinforced-concrete ties for railways. No. 155,924; June 13.
- Ashmum, F. E., Company, Providence, R. I. Finger rings. No. 161,399; Nov. 14.
- Ashtabula Corrugated Box Co., The, Ashtabula, Ohio. Fiber and paper shipping containers. No. 150,228; Jan. 3.
- Aspegren, John, New York, N. Y. Prime cooking-oil obtained from soy beans. No. 150,229; Jan. 3.
- Asquith, William G., doing business as The Astron Manufacturing Co., London, England. Certain veterinary preparation. No. 157,303; Aug. 1.
- Asselin, Homer L., doing business as Raelin Products Company, San Francisco, Calif. Liver tablets. No. 161,048; Nov. 7.
- Associated Cement Manufacturing Limited, The. (See Burham, Brick, Lime and Cement Company, assignor.)
- Associated Commission Co., Inc., New York, N. Y. Woolen, worsted, linen, velvet, and other piece goods. No. 157,859; Aug. 22.
- Associated Editors, Chicago, Ill. Section of a daily, weekly, or monthly periodical devoted to games. No. 158,885; Sept. 19.
- Associated Fruit Co., Chicago, Ill. Fresh grapes. No. 151,667; Feb. 14.
- Associated Lamp Company, New Orleans, La. Lamps (incandescent) and lamp testers. No. 153,102; Mar. 14.
- Associated Manufacturers Company, Waterloo, Iowa. Internal-combustion engines and cream-separating machines. No. 156,832; July 18.

Alphabetical list of registrants of trade-marks—Continued.

- Associated Merchandising Corporation, Newark, N. J., and New York, N. Y. Children's shoes of leather. No. 150,717; Jan. 10.
- Associated Oil Company, San Francisco, Calif. Lubricating oils and greases. No. 152,670; Mar. 7.
- Associated Oil Company, San Francisco, Calif. Gasoline. No. 159,603; Sept. 26.
- Associated Oil Company, San Francisco, Calif. Lubricating oils. No. 161,679; Nov. 14.
- Associated Oil Company, San Francisco, Calif. Kerosene. No. 162,424; Dec. 12.
- Associated Portland Cement Manufacturers Limited, The. (See Gillingham Portland Cement Company, The, assignor.)
- Associated Radiograph Laboratories, San Francisco, Calif. Fiber-board frame used in displaying X-ray photographs of teeth. No. 159,262; Sept. 26.
- Associated Rice Millers of America, Inc., New Orleans, La. Rice. No. 159,263; Sept. 26.
- "Associates," The, New York, N. Y. Biweekly publications. No. 162,186; Dec. 12.
- Ast, Anthony, New York, N. Y. Soaps and soap powders. No. 152,671; Mar. 7.
- Astra Bent Wood Furniture Co., New York, N. Y. Bent wood furniture. No. 154,820; May 9.
- Astron Manufacturing Co., The. (See Asquith, William G.)
- Atkins-Blakeney Chemical Company, Scranton, Pa. Tooth paste. No. 154,869; May 16.
- Atkins-Blakeney Chemical Company, Scranton, Pa., and Syracuse, N. Y. Certain toilet and medicinal preparations. No. 160,821; Oct. 31.
- Atkins, E. C., & Company, Indianapolis, Ind. Hack-saw machines. No. 156,501; June 27.
- Atkinson Drug Company, Atkinson, Ill. Compound for sealing leaks in radiators of gas engines. No. 152,117; Feb. 21.
- Atkinson, Samuel E., Woodstock and Chicago, Ill. Brazing flux. No. 154,219; Apr. 11.
- Atlanta Barbers' Supply Co., Atlanta, Ga. Perfumery, face creams, and toilet waters. No. 153,651; Mar. 28.
- Atlanta Barbers' Supply Co., Atlanta, Ga. Perfumery, toilet water, face powder, etc. No. 153,967; Apr. 4.
- Atlanta Barbers' Supply Co., Atlanta, Ga. Hair tonic. No. 154,220; Apr. 11.
- Atlanta Barbers' Supply Co., Atlanta, Ga. Hair tonics. No. 160,822; Oct. 31.
- Atlanta Barbers' Supply Company, Atlanta, Ga. Hair tonics and dandruff preventive. No. 161,680; Nov. 14.
- Atlanta Billiard Supply Co., Atlanta, Ga. Billiard supplies and sporting goods. No. 153,968; Apr. 4.
- Atlanta Paper Company, Atlanta, Ga. Paper bags. No. 154,221; Apr. 11.
- Atlanta Sheet Metal Works, Atlanta, Ga. Skylights, gutters, and fire doors made of sheet metal. No. 160,129; Oct. 17.
- Atlantic Comb Works, New York, N. Y. Hair, cloth, flesh, and nail brushes. No. 158,381; Sept. 5.
- Atlantic Instrument Co. Inc., New York, N. Y. Wireless telephone receiving outfits, sending suits, and certain accessories thereto. No. 162,187; Dec. 12.
- Atlantic Mills, Providence, R. I. Woolen piece goods. No. 155,199; May 23.
- Atlantic Mills, Inc., Providence, R. I. Worsted piece goods. No. 157,304; Aug. 1.
- Atlantic Mills, Providence, R. I. Worsted piece goods. No. 161,049; Nov. 7.
- Atlantic Refining Company, The, Philadelphia, Pa. Road and roofing oils and petroleum asphalts and pitches. No. 152,344; Feb. 28.
- Atlantic Refining Company, The, Philadelphia, Pa. Medicinal oils derived from petroleum, petrolatums, etc. No. 153,652; Mar. 28.
- Atlantic Southwestern Broom Co., Baltimore, Md. Brooms. Nos. 151,016-17; Jan. 10.
- Atlantic Southwestern Broom Co., Baltimore, Md. Brooms. Nos. 152,672-3; Mar. 7.
- Atlantic Stamping Company, Rochester, N. Y. Washtubs and washboilers. No. 152,674; Mar. 7.
- Atlantic Stamping Company, Rochester, N. Y. Metal products consisting of funnels, strainers, commodes, pans, etc. No. 155,200; May 23.
- Atlantic Stamping Company, Rochester, N. Y. Metal (galvanized iron or tin) pails, coal hods, sprinkling pots, buckets, cans, and radiator fillers, etc. No. 158,886; Sept. 19.
- Atlas Candy Mfg. Co. Inc., The, Lynchburg, Va. Chocolates and candies. No. 154,479; Apr. 18.
- Atlas Doll Company, Chicago, Ill. Dolls. No. 151,074; Jan. 24.
- Atlas Engineering Company, Milwaukee, Wis. Concrete mixers, belt and bucket conveyers, etc. No. 153,653; Mar. 28.
- Atlas Foundry Company, The, Cleveland, Ohio. Welding bars and rods. No. 159,264; Sept. 26.
- Atlas Portland Cement Company, The, North Hampton, Pa., and New York, N. Y. Stucco. Nos. 160,130-2; Oct. 17.
- Atlas Publishing Company, The, New York, N. Y. Periodicals published weekly. No. 154,870; May 16.
- Atlas Publishing Company, The, New York, N. Y. Periodicals published weekly. No. 155,201; May 23.
- Atlas Specialty Company Inc., Richmond, Va. Table sirup and molasses. No. 153,172; Aug. 29.
- Atlas Tack Corporation, Fairhaven, Mass. Tacks, nails, rivets. No. 157,252; July 25.
- Atlas Tinware Company, Inc., New York, N. Y. Household washboilers. No. 156,616; July 11.
- Atlas Torch Mfg. Co. (See Gundermann, Philip H.)
- Atlas Truck Corporation, York, Pa. Electric omnibuses or passenger vehicles. No. 152,016; Feb. 14.
- Atlas Underwear Co., The, Piqua, Ohio. Men's knit underwear. No. 154,749; Apr. 18.
- Atwood Machine Company, The, Stonington, Conn. Reel mills. No. 159,265; Sept. 26.
- Atwood Machine Company, The, Stonington, Conn. Wind-ing frames. No. 159,266; Sept. 26.
- Atwood Machine Company, The, Stonington, Conn. Spinning frames. No. 160,376; Oct. 24.
- Atwood Machine Company, The, Stonington, Conn. Combination doubling and twisting frames. No. 160,377; Oct. 24.
- Atwood Machine Company, The, Stonington, Conn. Doubling frames. No. 160,378; Oct. 24.
- Atwood Machine Company, The, Stonington, Conn. Silk-reeling frames. No. 160,379; Oct. 24.
- Auberger, Thomas, and Didier Beaudenon, Paris, France. Radiators for motor cars. No. 159,800; Oct. 10.
- Aucott, Katherine, Los Angeles, Calif. Certain toilet preparations. No. 160,817; Oct. 24.
- Aud Company, Inc., The, Herndon, Va. Life-saving suits. No. 161,050; Nov. 7.
- Audit Bureau of Circulations, Chicago, Ill. Statements, auditors' reports, and bulletins. No. 157,636; Aug. 15.
- Audubon Chemical Company, The, New Orleans, La. Mosquito repellent. No. 154,222; Apr. 11.
- Auer, John F., Philadelphia, Pa. Toilet paper. No. 154,871; May 16.
- Auerbach, D., & Sons, New York, N. Y. Chocolates. No. 152,047; Feb. 14.
- Auerbach, Louis, Cleveland, Ohio. Hair-tonic, massage cream, toilet water. No. 155,605; June 6.
- Auerbach, Louis, New York, N. Y. Ties and scarfs. Nos. 156,991-2; July 25.
- Auerbach, Morris, doing business as The Auerbach Bath Robe Co., New York, N. Y. Bath robes, Pullman and beach robes, and house robes. No. 160,133; Oct. 17.
- Augenblick, M., & Bro., Newark, N. J. Butter, eggs, lard, and dressed poultry. No. 162,670; Dec. 26.
- Augis, Anton, Winegar, Wis. Healing powder for wounds, cuts, and bruises. No. 156,170; June 20.
- Augsberger, Paul J., Atlantic City, N. J. Smoked beef. No. 162,471; Dec. 19.
- Auld Acquaintance Co., The, Grand Rapids, Mich. Certain toilet and pharmaceutical preparations. No. 160,824; Oct. 31.
- Aulmann, Robert C., Los Angeles, Calif. Record-sheet holder to be attached to automobile steering wheels and blank record sheets. No. 155,925; June 13.
- Ault & Wiborg Company of N. Y., The, New York, N. Y. Gritless news ink. No. 153,103; Mar. 14.
- Ault Wiborg Company, The, Cincinnati, Ohio. Printers' and lithographers' ink. No. 21,933; renewed Nov. 8, 1922.
- Ault-Williamson Shoe Co., Auburn, Me. Men's and women's boots and shoes of leather and combinations of leather and fabric. No. 156,171; June 20.
- Aultman, Inc., Milwaukee, Wis. Signs of a structural or mechanical nature. No. 151,668; Feb. 14.
- Aunt Molly's Kitchen, Muskegon, Mich. Chocolate candy and candied confection. No. 161,400; Nov. 14.
- Aunt Nellie's Farm Kitchen, Hartford, Wis. Canned peas and corn. No. 158,601; Sept. 12.
- Aurora Bed Spread Co., Inc., New York, N. Y. Bedspreads. No. 157,860; Aug. 22.
- Austilang Company, Philadelphia, Pa. Medicinal foot powder. No. 154,223; Apr. 11.
- Austin, Frank J., Philadelphia, Pa. Tooth paste, astringent lotions, and washes for the teeth and mouth. No. 153,969; Apr. 4.
- Austin, Nichols & Co., Inc., Richmond, Va. Automobile tires and tubes of rubber and a combination of fabric and rubber. No. 156,993; July 25.
- Austin, Sampson A., et al., trustees. (See Lowman, Eugene M., assignor.)
- Austin, W. Lee, Dallas, Tex. Antiseptic healing powder used for tired, aching, and swollen feet. No. 155,606; June 6.
- Au-To Compressor Co., The, Wilmington, Ohio. Fluid-compressor outfits, wrenches, pliers, etc. No. 151,424; Feb. 7.
- Auto Electric Air Feed, Inc., Chicago, Ill. Automatic fuel-feed regulators for internal-combustion engines. No. 162,029; Dec. 5.
- Auto Knitter Hosiery Company, Buffalo, N. Y. Hosiery. No. 154,480; Apr. 18.
- Auto Specialties Manufacturing Co., San Francisco, Calif. and St. Joseph, Mich. Jacks. No. 161,401; Nov. 14.
- Auto Truck Service Co., Inc., Milwaukee, Wis. Dump carts. No. 156,969; July 18.
- Auto-Vehicle Parts Company, The, Cincinnati, Ohio. Nails and tacks. No. 157,453; Aug. 8.
- Automatic Company, The. (See Mackey, A. G.)
- Automatic Bearing Co. Inc., Geneseo, Ill. Bolts. No. 157,454; Aug. 8.
- Automatic Electrical Devices Company, Cincinnati, Ohio. Electrical switchboards. No. 152,048; Feb. 14.

- Automatic Electrical Devices Company, The, Cincinnati, Ohio. Electrical rectifiers and rheostats. No. 161,009; Oct. 31.
- Automatic Refrigerating Company, The, Hartford, Conn. Refrigerating systems and parts thereof. No. 156,580; July 4.
- Automatic Siphon Filler Co. (See Gavaza, George V.)
- Automatic Steam Carburetor Company, Chicago, Ill. Vaporizers for applying water vapor to the cylinders of internal-combustion engines. No. 154,872; May 16.
- Automatic Transportation Company, Buffalo, N. Y. Load-carrying, crane, hopper, elevating-platform, and tiering-lifting trucks and parts and accessories thereof. No. 160,080; Oct. 10.
- Automobile Appliance Company, Boston, Mass. Reserve providers for gasoline and other liquid-fuel tanks of internal-combustion engines. No. 150,230; Jan. 3.
- Automobile Gasoline Company, The, St. Louis, Mo. Gasoline. No. 153,400; Mar. 21.
- Automobile Owners' Tire Corporation, St. Paul, Minn. Automobile tires and tubes of rubber. No. 160,380; Oct. 24.
- Automotive Accessories, Inc., Kokomo, Ind. Rear-view mirrors for vehicles. No. 155,308; May 23.
- Automotive Manufacturers Associates, Omaha, Nebr. Bodies and cabs for truck and passenger automobiles. No. 160,381; Oct. 24.
- Automotive Products Corporation, Hazleton, Pa. Pistons and wrist pins. No. 161,744; Nov. 21.
- Automotive Supply Manufacturing Company, Dallas, Tex. Paint and enamel dissolving and disintegrating preparations. No. 153,401; Mar. 21.
- Autoquip Mfg. Co., Inc., Rochester, N. Y. Tire pumps and valve grinders. No. 156,617; July 11.
- Avallone, Pasquale, Somerville, Mass., assignor to Avallone Laboratories Company, Inc., Somerville, Mass. Certain medicinal preparations. No. 160,823; Oct. 31.
- Avallone Laboratories Company, Inc. (See Avallone, Pasquale, assignor.)
- Avenarius, R., & Co., Stuttgart, Germany. Preserving paint. No. 161,402; Nov. 14.
- Averill Mfg. Corp., New York, N. Y. Dolls. No. 158,382; Sept. 5.
- Aviston Flour Company, Inc., Jackson, Miss. Stock and poultry feed. No. 159,267; Sept. 26.
- Avosal Co. (See Bommer, Arno M.)
- Axelson Machine Company, Los Angeles, Calif. Certain machinery and tools. No. 156,169; June 20.
- Axon-Fisher Tobacco Company, Louisville, Ky. Cigarettes. No. 150,718; Jan. 10.
- Ayer, Harriet Hubbard, New York, N. Y. Powder and rouge compacts. No. 150,231; Jan. 3.
- Ayer, Harriet Hubbard, New York, N. Y. Vanity boxes. Nos. 150,232-3; Jan. 3.
- Ayer, Harriet Hubbard, New York, N. Y. Powder and rouge compacts. No. 150,234; Jan. 3.
- Ayer, Harriet Hubbard, New York, N. Y. Face astringent and skin tightener. No. 150,235; Jan. 3.
- Ayer, Harriet Hubbard, New York, N. Y. Vanity boxes. Nos. 150,236-8; Jan. 3.
- Ayer, Harriet Hubbard, New York, N. Y. Certain toilet preparations. No. 150,239; Jan. 3.
- Ayer, Harriet Hubbard, New York, N. Y. Vanity boxes. Nos. 150,240-1; Jan. 3.
- Ayer, Harriet Hubbard, New York, N. Y. Perfumes. Nos. 160,825-7; Oct. 31.
- Ayer, M. Isabel, Boston, Mass. Fountain pens. No. 155,136; May 16.
- Ayling & Reichert Co., The, Toledo, Ohio. Chambered floats for use with float valves. No. 162,030; Dec. 5.
- Ayotte Manufacturing Co., Chicago, Ill. Lubricating oils. No. 152,676; Mar. 7.
- Ayotte Manufacturing Co., Chicago, Ill. Lubricating oils. No. 159,604; Sept. 26.
- Azulikit Mfg. Co. (See Adams, Hattie V.)
- B. B. Culture Laboratory, Inc., Yonkers, N. Y. Culture of lacti bacilli for medicinal use in gastro-intestinal disorders, etc. No. 159,861; Oct. 10.
- B. B. Specialty Co., Pittsburgh, Pa. Certain articles of plumbing and hardware. No. 158,363; Aug. 29.
- B. B. Transmission Wood Lining Co. (See Akins, Samuel W.)
- B. D. Rising Paper Company, Housatonic, Mass. Wedding bristol board and paper, cardboard and writing paper generally. No. 152,320; Feb. 21.
- B/G Sandwich Shops, Kansas City, Mo. Sandwiches and pastry. No. 159,268; Sept. 26.
- B. & K. Specialty Company, The, Paterson, N. J. Receptacles containing a fire-extinguishing liquid and mounted on a bracket. No. 157,614; Aug. 8.
- B. & P. Company, The, Cleveland, Ohio. Preparation for preventing perspiration and for removing the odor thereof. No. 160,828; Oct. 31.
- B. & W. Mfg. Co., Bloomington, Ill. Poultry feeding and drinking receptacles. No. 151,695; Feb. 14.
- B. V. D. Company, The, New York, N. Y. Underwear. No. 159,171; Sept. 19.
- B. V. D. Company, The, Baltimore, Md. Underwear of woven and knitted fabrics. No. 161,087; Nov. 7.
- Baboin, Aimé, & Cie., Lyon, France. Silk piece goods. No. 152,111; Feb. 21.
- Bachelor, Melville C., Grand Forks, N. Dak. Benches, other than work benches. No. 158,887; Sept. 19.
- Bachmann, J., & Co. (See Bachmann, Jacob.)
- Bachmann, Jacob, doing business as J. Bachmann & Co., New York, N. Y. Leather belting. No. 159,801; Oct. 10.
- Bachmann, John, Chicago, Ill. Pipes and cigar holders. No. 156,172; June 20.
- Bachmeyer-Lutmer Press Company, The, Cincinnati, Ohio. Pamphlet published monthly. No. 162,188; Dec. 12.
- Bachrach, Incorporated, Washington, D. C. Photographic prints and publications. No. 162,189; Dec. 12.
- Backus, William O., San Francisco, Calif. Dietary cookies. No. 157,637; Aug. 15.
- Badenhausen, John P., Philadelphia, Pa. Steam boilers. No. 152,049; Feb. 14.
- Badenhausen, John P., doing business as Phillips Badenhausen, Philadelphia, Pa. Steam boilers. No. 160,134; Oct. 17.
- Badenhausen, Phillips. (See Badenhausen, John P.)
- Bader, Louise, Passaic, N. J. Certain toilet preparations. No. 153,654; Mar. 28.
- Badger Manufacturing Corporation, Milwaukee, Wis. Bumpers. No. 160,382; Oct. 24.
- Badger Manufacturing Corporation, Milwaukee, Wis. Bumpers, tire and luggage carriers, creepers, etc. No. 160,383; Oct. 24.
- Badische Anilin- & Soda-Fabrik, Ludwigshafen-on-Rhine, Germany. Leather preservatives, finishing and turning agents. No. 153,970; Apr. 4.
- Badois, Louis, Paris, France. Fountain pens. No. 154,873; May 16.
- Baeder Adamson Company, Boston, Mass. Glue. No. 151,310; Jan. 31.
- Baeder Adamson Company, Boston, Mass. Flint paper and flint cloth, garnet paper, and garnet cloth, emery paper, and emery cloth. No. 151,653; Feb. 14.
- Baeder Adamson Company, Boston, Mass. Flint paper and flint cloth. No. 151,654; Feb. 14.
- Baeder Adamson Company, Boston, Mass. Packing prepared from paper treated with glycerine, formaldehyde, and glue. No. 153,971; Apr. 4.
- Baer Brothers, New York, N. Y. Paste and ready-mixed paints and varnishes. No. 162,190; Dec. 12.
- Baer, Ludwig, New York, N. Y. Filter mass. No. 153,972; Apr. 4.
- Baer & Wilde Co. Inc., The, Attleboro, Mass. Belt buckles made of or plated with precious metal. No. 157,407; Aug. 1.
- Bahnsen, C., & Co. Inc., New York, N. Y. Wool-velour coating piece goods. Nos. 153,104-6; Mar. 14.
- Bahnsen, C., & Co. Inc., New York, N. Y. Wool-corduroy piece goods. No. 153,107; Mar. 14.
- Bahnsen, C., & Co. Inc., New York, N. Y. Wool-velour coating piece goods. Nos. 153,108-12; Mar. 14.
- Bahnsen, C., & Co. Inc., New York, N. Y. Broadcloth piece goods. No. 155,202; May 23.
- Bailey Bros. Inc., Winston-Salem, N. C. Smoking tobacco. No. 157,861; Aug. 22.
- Bailey Brothers Inc., Winston-Salem, N. C. Cigarettes and smoking tobacco. No. 158,602; Sept. 12.
- Bailey Co., The, Cleveland, Ohio. Certain toilet preparations. No. 152,118; Feb. 21.
- Bailey, Junius H., Macon, Ga. Coffee and tea. No. 154,481; Apr. 18.
- Bailly, Marcel, Paris, France. Soap. No. 157,638; Aug. 15.
- Baird, Wm. W., doing business as Heyfema Company, Columbus, Ga. Medicine for the treatment of hay fever and colds. No. 157,862; Aug. 22.
- Bajanova, Elizaveta, New York, N. Y. Face cream. No. 153,655; Mar. 28.
- Bakal, S., & Son, New York, N. Y. Dress shields. No. 150,719; Jan. 10.
- Baker Brush Co., Inc., New York, N. Y. Paintbrushes. No. 158,383; Sept. 5.
- Baker Extract Company, Springfield, Mass. Printed booklet of recipes. No. 153,402; Mar. 21.
- Baker Food Products Company, Chicago, Ill. Canned vegetables, etc. No. 154,482; Apr. 18.
- Baker Food Products Company, Chicago, Ill. Canned fruits. No. 154,483; Apr. 18.
- Baker Food Products Company, Chicago, Ill. Canned fish, etc. No. 154,484; Apr. 18.
- Baker, H. A., Inc., Sumner, Wash. Canned fruits and vegetables. No. 157,639; Aug. 15.
- Baker, H. A., Inc., Sumner, Wash. Canned fruits, berries, and vegetables. No. 159,270; Sept. 26.
- Baker, H. J., & Bro., New York, N. Y. Canned fruit and salmon and sardines. No. 156,618; July 11.
- Baker Ice Cream Company, Cleveland, Ohio. Ice cream and ices. No. 154,821; May 9.
- Baker, J. Harve, Portales, N. Mex. Oils for softening and preserving leather. No. 152,677; Nov. 7.
- Baker, J. Howard, Fort Smith, Ark. Cough sirup. No. 156,833; July 18.
- Baker, Jacobs & Company, Buffalo, N. Y. Neckties. No. 161,403; Nov. 14.
- Baker, John A., doing business as Muster-Camp Co., Minneapolis, Minn. Salve. No. 158,384; Sept. 5.
- Baker, O. D. Company, Boston, Mass., and New York, N. Y. Mattresses, bed springs, pillows. No. 162,472; Dec. 19.
- Baker Paint & Varnish Co., Jersey City, N. J. Putty. No. 158,603; Sept. 12.
- Baker-Poston-Hemphill & Co., Fort Worth, Tex. Shirting. No. 154,224; Apr. 11.

Alphabetical list of registrants of trade-marks—Continued.

- Baker-Poston-Hemphill & Co., Fort Worth, Tex. Flannel shirts. No. 154,485; Apr. 18.
- Baker-Poston-Hemphill & Co., Fort Worth, Tex. Shoe laces. No. 155,607; June 6.
- Baker, R. & L., Company, The, Cleveland, Ohio. Electric motors for vehicles. No. 151,373; Jan. 31.
- Baker, R. & L., Company, Cleveland, Ohio. Automatic make-and-break mechanisms for electric circuits. No. 155,137; May 16.
- Baker, S. D., Manufacturing Company. (See Baker, Stephen D.)
- Baker, Stephen D., doing business as S. D. Baker Manufacturing Company, New York, N. Y. Certain fixtures of porcelain for bathrooms. No. 159,271; Sept. 26.
- Baker-Wachter Company, The, Cleveland, Ohio. Cutting tools for metal working machines. No. 151,425; Feb. 7.
- Baker, Walter, & Company, Limited. (See Pierce, Henry L., assignor.)
- Baker, William T., Inc., Jersey City, N. J. Mixed paints, varnishes, and coatings. No. 159,605; Sept. 26.
- Baker & Co. Inc., Newark, N. J. Gold alloy for dental clasps, etc. No. 151,018; Jan. 10.
- Bake-Rite Oven Mfg. Co., Reno, Nev., and San Francisco, Calif. Certain food products. No. 159,269; Sept. 26.
- Bakrow, Richard D., & Son, Louisville, Ky. Toy balloons. No. 150,720; Jan. 10.
- Bakrow, Richard D., & Son, Louisville, Ky. Toy balloons. No. 151,075; Jan. 24.
- Balba Corporation of America, Toledo, Ohio. Perfume. No. 158,173; Aug. 29.
- Balbia Chemical Mfg. Co. (See Caporale, Severino.)
- Balch, Louis L., Pittsburgh, Pa. Malt extract, hops, and maltose sugar used in making a beverage. No. 151,076; Jan. 24.
- Baldwin, Henry P., Ltd., Lahaina, Hawaii. Canned pineapple. No. 161,915; Nov. 28.
- Baldwin Tool Works, Parkersburg, W. Va. Shovels, spades, scoops, etc. No. 162,627; Dec. 19.
- Balfour, Arthur, & Co., Limited, Sheffield, England. Steel and iron in certain forms, certain steels and steel castings, etc. No. 154,874; May 16.
- Balfour Guthrie & Co., San Francisco, Calif. Insecticide spray. No. 157,305; Aug. 1.
- Balish, Benjamin, Brooklyn, N. Y. Fresh onions, potatoes, carrots, and apples. No. 152,678; Mar. 7.
- Balkan Sobranie Cigarettes Limited, The, London, England. Cigarettes. No. 150,721; Jan. 10.
- Ballew, Elmer L., doing business as The Lite Lunch Company, Chicago, Ill. Pastry goods, both baked and cooked. No. 159,802; Oct. 10.
- Ballhorn, William, Garwin, Iowa. Remedy for fistula and poll-evil in horses and cattle. No. 157,455; Aug. 8.
- Ballis, Emanuel R., doing business as Stamelis Douras Cigarette Co., New York, N. Y. No. 160,338; Oct. 17.
- Baltic Chemical Co. (See Rotenberg, Benjamin.)
- Baltimore Bed Co., Baltimore, Md. Bed springs. No. 153,368; Mar. 14.
- Baltimore Optical Company, Baltimore, Md. Ophthalmic lenses. No. 161,745; Nov. 21.
- Baltzly, Stanley M., Massillon, Ohio. Cold cream. No. 150,242; Jan. 3.
- Balyeat Mfg. Co., The, Mansfield, Ohio. Mattresses. No. 155,608; June 6.
- Bamacea Company, Inc., Boston, Mass. Soaps. No. 159,272; Sept. 26.
- Banister, James A., Company, Newark, N. J. Boots and shoes made of rubber, leather, fabric, or combination of same. No. 150,243; Jan. 3.
- Bankers Savings & Credit System Company, The, Cleveland, Ohio. Automatic change makers for cash or credit sales. No. 153,656; Mar. 28.
- Banks, Herman A., St. Louis, Mo. Taffy or molasses candy. No. 156,834; July 18.
- Banner Shirt Co., Inc., New York, N. Y. Dress, negligee, soft, and sport shirts. No. 161,051; Nov. 7.
- Banner Silk Knitting Mills, Inc., The, New York, N. Y. Fiber-silk jersey cloth. No. 152,345; Feb. 28.
- Banner Silk Knitting Mills, Inc., The, New York, N. Y. Silk knitted cloth. No. 158,888; Sept. 19.
- Banner Silk Knitting Mills, Inc., The, New York, N. Y. Knitted silk fabrics. Nos. 161,746-7; Nov. 21.
- Bapterosses, F. & Cie, Paris, France. Buttons and beads. No. 21,086; renewed May 10, 1922.
- Barber Hiram S., Detroit, Mich. Creosote-stained shingles. No. 159,654; Oct. 3.
- Barber, W. H., Co., Minneapolis, Minn. Gasoline. No. 158,385; Sept. 5.
- Barbour, J. E., Company, Paterson, N. J. Twine. No. 151,019; Jan. 10.
- Barbour, J. E., Co., Clifton, N. J. Flax and cotton twine. Nos. 159,606-7; Sept. 26.
- Barbour, J. E., Co., Clifton, N. J. Flax and cotton threads. Nos. 162,628-9; Dec. 19.
- Barcalo Manufacturing Company, Buffalo, N. Y. Mattresses for beds, etc. No. 153,403; Mar. 21.
- Barcalo Manufacturing Company, Buffalo, N. Y. Wrenches, pliers, and socket-wrench sets. No. 158,332; Aug. 29.
- Barclay & Co., Wilmington, Del., and New York, N. Y. Soap. No. 162,671; Dec. 28.
- Barden, Edward E., doing business as New Discovery Chemical Co., South Pasadena, Calif. Ointment for the treatment of piles. No. 162,949; Dec. 26.
- Bardon, Ray O., Upper Sandusky, Ohio. Antislipping attachments for shoes. No. 160,384; Oct. 24.
- Baren, Lehrman & Berler, Inc., New York, N. Y. Men's overcoats, suits, vests, trousers, coats. No. 150,722; Jan. 10.
- Barfield, Joseph, New York, N. Y. Watches and watch movements. No. 151,669; Feb. 14.
- Barish, Meyer, doing business as Meyer Barish Mfg. Co., New York, N. Y. Cotton piece goods and piece goods of cotton and silk mixtures. No. 162,672; Dec. 26.
- Barish, Meyer, Mfg. Co. (See Barish, Meyer.)
- Barker Bros. Inc., Los Angeles, Calif. Reed furniture. No. 159,164; Sept. 19.
- Barker Shoe Company, Auburn, Me. Moccasins. No. 154,750; Apr. 18.
- Barker, Stanley F., Seattle, Wash. Asthma sera. No. 153,657; Mar. 28.
- Barley Motor Car Company, Kalamazoo, Mich. Automobiles. No. 153,113; Mar. 14.
- Barlow-Moore Tobacco Company, Glasgow, Ky. Twist, plug, and smoking tobacco. No. 153,114; Mar. 14.
- Barnard, George D., Stationery Company, St. Louis, Mo. Writing paper. No. 161,748; Nov. 21.
- Barnard Toy Co., The, Detroit, Mich. Certain toys. No. 157,863; Aug. 22.
- Barnes, Alfred G., Cuyahoga Falls, Ohio. Preparation in the form of salve for the relief of influenza and preparation in tablet form for colds. No. 159,655; Oct. 3.
- Barnes, Bert E., Brooklyn, N. Y. Magazines published monthly. No. 152,017; Feb. 14.
- Barnes, Samuel B., doing business as Barnes and Mullins, London, England. Wind musical instruments in the nature of a whistle. No. 162,191; Dec. 12.
- Barnes and Mullins. (See Barnes, Samuel B.)
- Barnet Leather Co. Inc., New York, N. Y. Leather. No. 151,374; Jan. 31.
- Barnet Leather Co. Inc., New York, N. Y. Calf leather. No. 153,115; Mar. 14.
- Barnett Canvas Goods & Bag Co. Inc., Philadelphia, Pa. Canvas tents and covers for covering merchandise, trucks, etc. No. 156,995; July 25.
- Barnett, Effie M., Pasadena, Calif. Preparation for growing hair. No. 160,829; Oct. 31.
- Barnett, Elmer, Waco, Tex. General tonic for medicinal purposes. No. 157,456; Aug. 8.
- Barney-Bennett Co., Sioux City, Iowa. Stomach remedy. No. 152,119; Feb. 21.
- Barnhart Brothers & Spindler, Chicago, Ill. Nonferrous metal alloys. No. 150,724; Jan. 10.
- Barnickel, William S., & Co., St. Louis, Mo. Chemicals used in the treatment of petroleum emulsions to effect the recovery of the valuable oil content of such emulsions. No. 161,052; Nov. 7.
- Barnsdall Refining Company, Tulsa, Okla. Lubricating oil. No. 153,973; Apr. 4.
- Barnstead Still & Sterilizer Co., Boston, Mass. Apparatus for sterilizing surgical and dental instruments. No. 158,604; Sept. 12.
- Barnstead Still & Sterilizer Co., Boston, Mass. Water stills. No. 153,658; Mar. 28.
- Baron, Antoni, East Chicago, Ind. Salve for wounds, sores, eczema, and skin diseases. No. 152,120; Feb. 21.
- Baron, Maurice M., Monterey, Mexico. Sirups for making soft drinks having antifever properties. No. 158,333; Aug. 29.
- Barozzi Drying Machine Co. (See Barozzi, G. E.)
- Barozzi, G. E., doing business as Barozzi Drying Machine Co., San Francisco, Calif. Drying machines for drying fruit. No. 162,031; Dec. 5.
- Barr Company, The, Chillicothe, Ohio. Vending machine. No. 156,996; July 25.
- Barrager, Frank J., Los Angeles, Calif. Celery bread. No. 152,121; Feb. 21.
- Barraquer Barraquer, Ignacio, Barcelona, Spain. Apparatus for the complete extraction of cataract. No. 153,467; Mar. 21.
- Barrett Company, The, New York, N. Y. Shingles. No. 151,375; Jan. 31.
- Barrett Company, The, New York, N. Y. Bituminous cement. No. 153,974; Apr. 4.
- Barrett Company, The, New York, N. Y. Coke. No. 155,609; June 6.
- Barrett Company, The, New York, N. Y. Felt roofing and sheathing and building paper. No. 159,656; Oct. 3.
- Barrett, Denton & Lynn Co., Dalton, Ga. Wheat flour. No. 158,605; Sept. 12.
- Barrington Manufacturing Corporation, Dover, Del., and Mount Vernon, N. Y. Washing compound. No. 157,641; Aug. 15.
- Barris, Gilbert, Los Angeles, Calif. Piston pins and valves of internal-combustion engines. No. 150,725; Jan. 10.
- Barr-Nunn Company, The, Massillon, Ohio. General tonic. No. 160,830; Oct. 31.
- Barron, Anderson Co., Boston, Mass. Men's suits and overcoats. No. 155,610; June 6.
- Barrow, Hepburn & Gale Ltd. (See Hepburn, Gale and Ross, Limited, assignor.)
- Barrow, Hepburn & Gale Limited, London, England. Trunks and certain named leather articles, etc. No. 159,657; Oct. 3.
- Barry, T. D., Company, Brockton, Mass. Shoes. No. 161,053; Nov. 7.
- Barshal Company, Cleveland, Ohio. Vault lockers for the storage of valuables, safes, etc. No. 156,997; July 25.
- Barshal Company, The, Cleveland, Ohio. Waste receptacles. No. 158,889; Sept. 19.

Alphabetical list of registrants of trade-marks—Continued.

- Barthelmie, George, West Hammond, Ill. Bread. No. 152,679; Mar. 7.
- Bartlett & Bickley. (See Jonas, Charles D.)
- Bartlett, C. O., & Snow Company, The, Cleveland, Ohio. Certain crushers and driers, paint mills, paint-mixers, and corn shellers. No. 150,723; Jan. 10.
- Bartlett Somers Company, Lynn, Mass. Ladies' leather boots, shoes, and slippers. No. 154,486; Apr. 18.
- Bartola Musical Instrument Co., Oshkosh, Wis. Organs. No. 159,165; Sept. 19.
- Barton, Benjamin H., et al., trustees. (See Lowman, Eugene M., assignor.)
- Barton & Co., Seattle, Wash. Meats—namely, fresh lamb, mutton, veal, pork, beef, bacon, etc. No. 159,803; Oct. 10.
- Baruxes, Christ, Newark, Ohio. Hard and soft candies, bonbons, chocolates, and marshmallows. No. 151,426; Feb. 7.
- Bar Zim Toy Mfg. Co. Inc., New York, N. Y. Mouth wind musical instrument in the nature of a whistle. No. 151,077; Jan. 24.
- Bass, Columbus E., Boonville, Mo. Polish for auto bodies and furniture and having incidental properties as auto top polish. No. 158,606; Sept. 12.
- Bass, G. H., & Company, Wilton, Me. Moccasins. No. 156,998; July 25.
- Bass, Max, New York, N. Y. Dandruff ointment. No. 150,726; Jan. 10.
- Bass-Parker Co., Rockwell City, Iowa. Insecticide. No. 154,225; Apr. 11.
- Bassick Company, The, Bridgeport, Conn. Casters. No. 150,727; Jan. 10.
- Bassick Company, The, Bridgeport, Conn. Certain articles of hardware. No. 154,226; Apr. 11.
- Basso, Salvatore, Chicago, Ill. Hair tonic. No. 161,055; Nov. 7.
- Bastanchury Ranch Company, Fullerton, Calif. Fresh citrus fruits. No. 154,428; Apr. 11.
- Bastanchury Ranch Company, Fullerton, Calif. Fresh citrus fruits. No. 154,777; May 9.
- Bastanchury Ranch Company, Fullerton, Calif. Fresh citrus fruits. No. 155,611; June 6.
- Bastanchury Ranch Company, Fullerton, Calif. Fresh citrus fruits. No. 156,502; June 27.
- Bastian-Morley Co., Laporte, Ind. Gas water heaters. No. 151,079; Jan. 24.
- Bastian-Morley Co., Laporte, Ind. Gas water heaters. No. 162,673; Dec. 26.
- Batcheller, George C., & Co., New York, N. Y. Corsets and underwaists. No. 154,822; May 9.
- Batcheller, George C., & Co., New York, N. Y. Corsets. No. 158,607; Sept. 12.
- Batcheller, George C., & Co., New York, N. Y. Corsets. No. 158,890; Sept. 19.
- Bates, A. J., & Company, Inc., New York, N. Y. Footwear—namely, rubber and leather boots, shoes, &c. No. 161,404; Nov. 14.
- Bates Engineering Company, The, Liverpool, England. Baking machines and parts of machines for making wafer biscuits, etc. No. 161,916; Nov. 28.
- Bates Manufacturing Company, The, Orange, N. J. Numbering machines. No. 158,174; Aug. 29.
- Bauer, Charles W., St. Louis, Mo. Malt extract used in the preparation of a malt beverage. No. 153,976; Apr. 4.
- Bauer & Black, Chicago, Ill. Soap. No. 151,670; Feb. 14.
- Bauer & Black, Chicago, Ill. Talcum powder. No. 152,680; Mar. 7.
- Bauer & Black, Chicago, Ill. Adhesive tape. No. 153,975; Apr. 4.
- Bauer & Black, Chicago, Ill. Soap. No. 155,381; May 30.
- Bauer & Black, Chicago, Ill. Talcum powder. No. 156,173; June 20.
- Bauer & Black, Chicago, Ill. Talcum powder. No. 157,457; Aug. 8.
- Bauhofer, John, Louisville, Ky. Cigars. No. 161,917; Nov. 28.
- Baum, Kravat & Baum, New York, N. Y. Ladies' and misses' dresses. No. 155,926; June 13.
- Bauman, Max, trading as M. Bauman & Company, New York, N. Y. Finger rings. No. 156,619; July 11.
- Bausch & Lomb Optical Co., Rochester, N. Y. Ophthalmic lenses. No. 159,273; Sept. 26.
- Baxter, Daniel L., Pawtucket, R. I. Mailing envelopes and wrappers. No. 155,203; May 23.
- Baxter, Frank C., doing business as National Specials Company, New York, N. Y. Household dishes. No. 161,054; Nov. 7.
- Bay Bee Oil Co., New York, N. Y. Oil compound. No. 156,835; July 18.
- Bay Bee Oil Co., New York, N. Y. Olive oil. No. 156,999; July 25.
- Bay State Corset Co., Springfield, Mass. Corsets. No. 154,429; Apr. 11.
- Bay State Corset Company, Springfield, Mass. Corsets. No. 162,473; Dec. 19.
- Bay State Drug Co., Pittsburg, Mass. Internal medicine for coughs, colds, bronchitis, etc. No. 157,306; Aug. 1.
- Bay State Milling Company, Winona, Minn. Wheat flour. No. 161,864; Nov. 21.
- Bay State Stamping Company, Worcester, Mass. Curtain fixtures and brackets. No. 157,253; July 25.
- Bay State Thread Works, Springfield, Mass. Cotton threads. No. 159,804; Oct. 10.
- Bayer, Chas. W., doing business as Bayer Sugar Co., Cincinnati, Ohio. Malt extract and malt sugar for beverage purposes. No. 162,674; Dec. 26.
- Bayer Company, Inc., The, New York, N. Y. Certain medicinal preparations. No. 155,382; May 30.
- Bayer Co., Inc., The, New York, N. Y. Preparations or medicines for certain purposes. No. 155,612; June 6.
- Bayer Company, Inc., The, New York, N. Y. Antirheumatic, analgesic, and antipyretic. No. 156,174; June 20.
- Bayer Company, Inc., The, New York, N. Y. Certain medicinal preparations. Nos. 160,831-3; Oct. 31.
- Bayer Sugar Co. (See Bayer, Chas. W.)
- Bayless Manufacturing Corporation, Austin, Pa. Water-finish fiber paper. No. 160,385; Oct. 24.
- Baynton Mills, Philadelphia, Pa. Sweaters, sweater coats. No. 151,671; Feb. 14.
- Baynton Mills, Philadelphia, Pa. Sweaters, sweater coats, hosiery, gloves. No. 154,875; May 16.
- Bayuk Bros. Incorporated, Baltimore, Md., and Philadelphia, Pa. Cigars, cigarettes, chewing and smoking tobacco. Nos. 150,728-32; Jan. 10.
- Bayuk Bros. Incorporated, Baltimore, Md., and Philadelphia, Pa. Cigars, cigarettes, chewing and smoking tobacco. No. 153,659; Mar. 28.
- Bazille & Partridge, Inc. St. Paul, Minn. Dry, ready-mixed and paste paints, putty, linseed oil, turpentine, etc. No. 162,192; Dec. 12.
- Beach Chemical Company, St. Louis, Mo. Medicinal preparation for relief of colds, la grippe, fever, etc. No. 160,834; Oct. 31.
- Beach, James, & Sons, Dubuque, Iowa. Soap and soap preparations. No. 155,613; June 6.
- Beach Publishing Co., Detroit, Mich. Traveler's expense book. No. 160,386; Oct. 24.
- Beacon Chocolate Company, Boston, Mass. Carbonated, maltless soft drinks and sirups therefor. Nos. 154,876-7; May 16.
- Beacon Chocolate Company, Boston, Mass. Chocolate, cocoa, and chocolate candy, and other candies. No. 156,620; July 11.
- Beacon Manufacturing Company, Providence, R. I. Blankets of double thickness. No. 157,000; July 25.
- Beacon Manufacturing Company, Providence, R. I. Certain blankets, comfortables, bath-robe flannel, and blanket goods in the piece. No. 157,864; Aug. 22.
- Beacon Manufacturing Company, Providence, R. I. Certain named blankets, traveling rugs, and blanket goods. No. 159,658; Oct. 3.
- Beals, Allen E., Corporation, New York, N. Y. Daily and a weekly publication, newspaper, magazine, or report. No. 150,244; Jan. 3.
- Beam, O. A., & Son, Hemlock, N. Y. Certain foods and ingredients of foods. No. 153,116; Mar. 14.
- Bear Chemical Company, Reading, Pa. Insecticides. No. 156,175; June 20.
- Bear Hops, Malt & Extract Co., Brooklyn, N. Y. Malt sirup. No. 160,387; Oct. 24.
- Bear Manufacturing Co., Rock Island, Ill. Antiskid chains. No. 158,175; Aug. 29.
- Beard, Lawrence O., Lancaster, Pa. Reamers, pistons, and piston pins. No. 158,334; Aug. 29.
- Bearden, P. L., Dallas, Tex. Polishing cloth. No. 162,193; Dec. 12.
- Beardsley, Calvin L., Rock Island, Ill. Maltless, non-alcoholic beverage and sirups for making same. No. 150,760; Jan. 10.
- Beardsley, Calvin L., Rock Island, Ill. Fruit beverage sold as a soft drink and sirups used in preparation of same. Nos. 156,176-8; June 20.
- Beardsley & Piper Company, The, Chicago, Ill. Machines for making molds for founding. No. 160,185; Oct. 17.
- Beatrice Creamery Company, Chicago, Ill. Condensed and powdered buttermilk. No. 154,487; Apr. 18.
- Beattie, David A., Porterville, Calif. Fresh citrus fruit. No. 151,672; Feb. 14.
- Beatty Coal Company, Kansas City, Mo. Coal. No. 155,927; June 13.
- Beatty Coal Co., Kansas City, Mo. Coal. No. 159,166; Sept. 19.
- Beaudenon, Didier. (See Auburger, T., and Beaudenon.)
- Beaumont, S., & Fils, Roubaix, France. Hairpins. No. 162,675; Dec. 26.
- Beautysaid Company, The, Cincinnati, Ohio. Certain toilet preparations. No. 158,176; Aug. 29.
- Beautysaid Cosmetic Co. (See Newlyn, Thomas J.)
- Beavan, Joseph W., Syracuse, N. Y. Perfumes, toilet waters, creams, powders, and rouges. No. 150,245; Jan. 3.
- Beaver, Hermann L., Philadelphia, Pa. Polishing or burnishing material for metal parts, consisting of small polished-steel globules. No. 162,194; Dec. 12.
- Beaver Mach. & Tool Co., Inc., Newark, N. J. Electrical, attachment, and switch plugs. No. 156,621; July 11.
- Beaver Machine & Tool Co. Inc., Newark, N. J. Radio receiving sets. No. 162,195; Dec. 12.
- Beccard, Emil B., St. Louis, Mo. Printers'-ink varnish. No. 151,427; Feb. 7.
- Beck, Addison L., Sharon, Pa. Headache powders, corn cure, cough drops, tooth cordial, pills, and inhalers. No. 20,450; renewed Dec. 8, 1921.
- Beck Novelty Co. Inc., New York, N. Y. Sweaters and scarfs. No. 156,100; June 13.
- Beck-Van Sicken & Co., San Francisco, Calif. Wheat flour. No. 153,344; Mar. 14.

Alphabetical list of registrants of trade-marks—Continued.

- Becker, Edw. M., Co., The, Cleveland, Ohio. Candy. No. 162,474; Dec. 19.
- Becker, Harry T. A., London, England. Intestinal disinfectant. No. 151,428; Feb. 7.
- Becker Provision Co., Little Rock, Ark. Hams, bacons, butter, eggs, and sausage. No. 159,274; Sept. 26.
- Becker, R. A., Varnish Company, The, Cincinnati, Ohio. Stain varnish, varnishes, mixed paints, and paint enamels. No. 158,608; Sept. 12.
- Beckley-Ralston Co., The, Chicago, Ill. Headlight lenses. No. 153,117; Mar. 14.
- Beckley-Ralston Co., The, Chicago, Ill. Automobile-radiator-solution testers. No. 154,878; May 16.
- Beckman-Dawson Roofing Co., Chicago, Ill. Prepared roofing and asphalt shingles. No. 160,136; Oct. 17.
- Beckwith Company, The, Reedley, Calif. Preserved fruits—viz, figs. No. 161,918; Nov. 28.
- Beckwith-O'Neill Company, Minneapolis, Minn. Cabinets in which sound-reproducing machines are mounted. No. 153,404; Mar. 21.
- Beckwith, William A., Worcester, Mass. Steel-hardening solutions. No. 157,308; Aug. 1.
- Beech-Nut Packing Company, (See Imperial Packing Company, assignor.)
- Beech-Nut Packing Company, Canajoharie, N. Y. Dentifrice. No. 154,227; Apr. 11.
- Beech-Nut Packing Company, Canajoharie, N. Y. Baking powder. No. 157,307; Aug. 1.
- Behr, Herman, & Company Incorporated, Brooklyn, N. Y. Abrasive papers and cloths. No. 157,642; Aug. 15.
- Behrens Dairy Products Company, Inc., New Orleans, La. Milk, cheese, and eggs. No. 152,346; Feb. 28.
- Behrens, E. H., & Co., Inc., New York, N. Y. Certain drapery fabrics, draperies, piece goods. No. 161,405; Nov. 14.
- Behringer, Claud A., Anderson, Ind. Suitcase. No. 158,609; Sept. 12.
- Beich, Paul E., Company, Bloomington, Ill. Candy and caramels. No. 156,622; July 11.
- Beidler, George C., Chicago, Ill. Candies. No. 160,835; Oct. 31.
- Beiersdorf, P., & Co. Inc., New York, N. Y. Lacto-albuminous solution used for subcutaneous injection. No. 151,673; Feb. 14.
- Belasco Mechanics Corporation, New York, N. Y. Apparatus for playing a game in which a board or table and missiles or playing pieces are employed. No. 158,610; Sept. 12.
- Belcher Remedy Co., Brooklyn, N. Y. Salve for piles or hemorrhoids. No. 161,056; Nov. 7.
- Belden Manufacturing Company, Chicago, Ill. Radiator caps. No. 160,759; Oct. 24.
- Bell Cap Company, The, Philadelphia, Pa. Hats and caps. No. 158,891; Sept. 19.
- Bell Chemical Co., Defiance, Ohio. Medicinal ointment. No. 159,805; Oct. 10.
- Bell, Dr., Medicine Company, The, Louisville, Ky., and New York, N. Y. Medicinal preparations for the treatment of coughs, colds, etc. No. 162,676; Dec. 26.
- Bell, Raymond H., Columbus, Ohio. Coal. No. 156,179; June 20.
- Bell Syndicate, Inc., The, New York, N. Y. Series of cartons. No. 158,611; Sept. 12.
- Bell Washer and Wringer Company, The, Cleveland, Ohio, assignor to The Foote-Burt Company. Laundry washing machines. No. 155,614; June 6.
- Bell, William, Forestville, Calif., and Buffalo, N. Y. Certain medicinal preparations. No. 155,615; June 6.
- Bellaire Beverage Co., The, Bellaire, Ohio. Certain soft drinks. No. 150,166; Jan. 3.
- Bellaire, Louis P., Le Mars, Iowa. Salve for wounds, sores, irritation, etc. No. 155,616; June 6.
- Belle Mead Sweetsmakers, The, Trenton, N. J. Candy. No. 154,488; Apr. 18.
- Bellevue Hosiery Sales Co. (See Willis, William S.)
- Belgrade Lumber Company, Memphis, Tenn. Hardwood lumber. Nos. 160,888-9; Oct. 24.
- Belmont Hosiery Company, Belmont, N. H. Hosiery. No. 161,057; Nov. 7.
- Bel-Mont Laboratories. (See Gross, William H.)
- Belton Mills, Belton, S. C. Sheetings. No. 162,677; Dec. 26.
- Benco Manufacturing Company. (See Bergman, Theodore R.)
- Benaderet, Samuel, San Francisco, Calif. Egyptian cigarettes. No. 160,390; Oct. 24.
- Benavides, Gabriel J., Philadelphia, Pa. Ointment remedies for dandruff. No. 157,458; Aug. 8.
- Bender, John E., Durand, Mich. Butter. No. 153,575; Mar. 21.
- Bender, Matthew, & Company, Incorporated, Albany and New York, N. Y. Printed books. No. 158,892; Sept. 19.
- Bendy, Mrs. G. W., Houston, Tex. Pomade. No. 155,617; June 6.
- Benedict, C., Mfg. Co., San Francisco, Calif. Dress shields. No. 153,369; Mar. 14.
- Benedict, C., Mfg. Co., San Francisco, Calif. Brassières, bandeaus, ready-made dress linings, waterproof aprons, baby pants, corsets, hose supporters, etc. No. 155,618; June 6.
- Benedict, T. N., Mfg. Co., East Syracuse, N. Y. Silver-plated tableware and certain precious-metal hollow ware. No. 158,177; Aug. 29.
- Beneke & Kropf Manufacturing Company, Chicago, Ill. Carburetors, thermostatic controls for internal-combustion engines, etc. No. 161,406; Nov. 14.
- Beneke & Kropf Manufacturing Company, Chicago, Ill. Toilet seats. No. 161,407; Nov. 14.
- Bengert, Ray, Kansas City, Mo. Jewelry. No. 153,178; Aug. 29.
- Bengol Company, The, Indianapolis, Ind. Lubricating oil. No. 153,405; Mar. 21.
- Bengué, Jules, Paris, France. Lozenges for throat diseases. No. 150,246; Jan. 3.
- Bengue, Jules B., Paris, France. Certain medicinal preparations. No. 158,574; Sept. 5.
- Benjamin, Bernard, Dayton, Ohio. Furniture polish. No. 154,879; May 16.
- Benjamin & Jones, Newark, N. J. Corsets, brassières, underbodies, corset covers, and camisoles. No. 156,101; June 13.
- Benjamin and Jones, Newark, N. J. Corsets and brassieres. No. 156,180; June 20.
- Benner Chemical Company, Chicago, Ill. Washing soda. No. 161,681; Nov. 14.
- Bennett, A., & Co., New York, N. Y. Crates for fruits and vegetables. No. 152,681; Mar. 7.
- Bennett, Fred S., Inc., New York, N. Y. Waterproof fabrics. No. 151,674; Feb. 14.
- Bennett, George H., Kansas City, Mo. Film-cleaning fluid. No. 157,865; Aug. 22.
- Bennett and Aspden Company, Philadelphia, Pa. Velvets in the piece. No. 152,682; Mar. 7.
- Bennett and Aspden Company, Philadelphia, Pa. Velvets. No. 150,181; June 20.
- Bennett & Wedden Inc., New York, N. Y. Certain articles of clothing. No. 161,058; Nov. 7.
- Bennington Hosiery Company, Bennington, Vt. Hosiery and stockings. No. 157,802; Aug. 15.
- Bennis, Stephen, Mineola, Long Island, N. Y. Talking-machine needles. No. 157,408; Aug. 1.
- Benno Jaffe & Darmstadter, Charlottenburg, near Berlin, Germany. Remedies for skin diseases. No. 20,505; renewed Dec. 29, 1921.
- Benoit & Mathieu, Montreal, Quebec, Canada. Phonographs and parts therefor and phonograph records. No. 155,012; May 16.
- Benoliel, Solomon D., Philadelphia, Pa. Swabbing compound for cannon. No. 150,247; Jan. 3.
- Benoliel, Solomon D., Philadelphia, Pa. Cleaners for metal, japanning, galvanizing, and rough cleaning. No. 155,619; June 6.
- Benoliel, Solomon D., doing business as International Chemical Co., Philadelphia, Pa. Lubricant. No. 161,749; Nov. 21.
- Benson Corporation, New York, N. Y. Middy blouses for children and girls, and shirts for sailors. No. 154,430; Apr. 11.
- Benson, Christian L., Chicago, Ill. Canned fish, fruits, and vegetables. No. 21,556; renewed Oct. 11, 1922.
- Benson, E. R., Manufacturing Co., Portland, Me. Devices for locating the cause of knocks or sounds in automobiles or other mechanisms. No. 150,733; Jan. 10.
- Benson, Ralph W., New York, N. Y. Machinery packing of tallow, oil, animal fats and other greases. No. 152,688; Mar. 7.
- Benson & Rixon Co., Chicago, Ill. Men's and boys' suits. No. 154,431; Apr. 11.
- Benson, Warren E., Marietta, Ga. Preparation for certain purposes. No. 153,660; Mar. 28.
- Bent, G. H., Company, Milton, Mass. Cookies, crackers, cakes, and biscuit. No. 159,275; Sept. 26.
- Bentley, Earl W., Oklahoma, Okla. Inner tubes. No. 160,760; Oct. 24.
- Benzol Gas Corporation, Nashville, Tenn. Fuel oils. No. 161,682; Nov. 14.
- Benzoline Motor Fuel Co., Chicago, Ill. Motor-fuel oil. No. 152,564; Feb. 28.
- Berbecker, Julius & Sons, Inc., New York, N. Y. Hand sewing needles. Nos. 162,678-9; Dec. 26.
- Berberian, J. M., Boston, Mass. Cigarettes and cigarette tobacco. No. 153,118; Mar. 14.
- Berberian, John M., Boston, Mass. Cigarettes and cigarette tobacco. No. 154,830; May 16.
- Berberian, Levon, Providence, R. I. Cigars and cigarettes. No. 157,459; Aug. 8.
- Borovich, William, Oakland, Calif. Cigars. No. 153,119; Mar. 14.
- Berdan Company, The, Toledo, Ohio. Comfits and candies. No. 162,680; Dec. 26.
- Beresford, Lionel B., doing business as Elcaptain Toy and Game Co., Beverly, N. J. Board games. No. 157,309; Aug. 1.
- Berg Bros. Mfg. Company, Chicago, Ill. Spark timers for internal-combustion engines. No. 156,623; July 11.
- Berg, F., & Company, Orange, N. J. Men's felt hats. No. 157,803; Aug. 15.
- Berg, F., & Co., Orange, N. J. Men's felt hats. No. 157,866; Aug. 22.
- Berg, F. O. (See Berg, Frederick O.)
- Berg, Frederick O., doing business as The F. O. Berg Company, Spokane, Wash. Shelter tents of canvas or other fabric. No. 159,806; Oct. 10.
- Berge-Rathbun Co., Boston, Mass. Liquid indicating gauges. No. 159,276; Sept. 26.

- Berger, L. D., doing business as L. D. Berger Company, Philadelphia, Pa. Eaves-trough hangers, conductor hooks and fasteners. No. 161,408; Nov. 14.
- Bergeron, Anna M., Los Angeles, Calif. Toilet preparation. No. 161,683; Nov. 14.
- Bergman Specialty Co., New York, N. Y. Plumbers' soil. No. 161,059; Nov. 7.
- Bergman, Theodore R., doing business as Bemco Manufacturing Company, New York, N. Y. Steel balls. No. 161,409; Nov. 14.
- Bergmann, Dr. Friedrich, G. m. b. H., Querfurt, Prussia, Germany. Sweet turnip and beet seed. No. 155,928; June 13.
- Bergougan Rubber Corporation, Wilmington, Del., and Trenton, N. J. Rubber tires. No. 159,807; Oct. 10.
- Beristain y Cia., Barcelona, Spain. Automatic pistols, revolvers, shotguns, and auto-loading shotguns. Nos. 161,758-9; Nov. 21.
- Berkander, Geo. F., Providence, R. I. Dolls. No. 157,001; July 25.
- Berkeley Company, Providence, R. I. Cotton sheeting in the piece. No. 152,347; Feb. 28.
- Berkeley Company, Providence, R. I. Cambrics in the piece. No. 152,348; Feb. 28.
- Berkeley Company, Providence, R. I. Cotton madras in the piece. No. 152,349; Feb. 28.
- Berkeley Company, Providence, R. I. Cambrics in the piece. No. 157,460; Aug. 8.
- Berkenfield, Irving, Erie, Pa. Perfumed liquid terpineol, hair restorer and tonic, toilet waters. No. 153,576; Mar. 21.
- Berkenfield, Irving, doing business as The Field Laboratories, Erie, Pa. Food-flavoring extracts, spices, and sauces. No. 156,964; July 18.
- Berkowitz Envelope Company, Kansas City, Mo. Writing paper commonly known as bond paper. No. 155,138; May 16.
- Berliner, H. S., trading as The Compo Company, Lachine, Quebec, and Toronto, Canada. Talking machines, talking-machine parts, records, and needles. Nos. 158,179-81; Aug. 29.
- Berlinger, Phil. & Co., New York, N. Y. Ladies' hats. No. 154,489; Apr. 18.
- Berman, C. D., Chemical Co. (See Berman, Charles D.)
- Berman, Charles D., doing business as C. D. Berman Chemical Co., Wheeling, W. Va. Rat poison. No. 158,893; Sept. 19.
- Berman, Reuben, New York, N. Y. Hosiery. No. 157,002; July 25.
- Bermingham & Prosser Company, Kalamazoo, Mich. Book paper. No. 157,409; Aug. 1.
- Bernard Schwartz & Sons, Detroit, Mich. Cigars. No. 153,851; Mar. 28.
- Bernard, W. J., New York, N. Y. Watches. No. 155,204; May 23.
- Bernardo, Rochelle, New York, N. Y. Toilet preparations—viz., perfumes. No. 150,248; Jan. 3.
- Berndorfer Metallwarenfabrik Arthur Krupp A. G., Berndorf, Lower Austria. Certain named articles of precious-metal ware. No. 152,684; Mar. 7.
- Berndorfer Metallwarenfabrik Arthur Krupp A. G., Berndorf, Austria. Sheet-metal bands and wire manufactured for electrotechnical purposes. No. 162,681; Dec. 26.
- Bernet, Craft & Kauffman Milling Co., St. Louis, Mo. Wheat flour. No. 159,277; Sept. 26.
- Bernet, Craft & Kauffman Milling Co., St. Louis, Mo. Self-rising wheat flour. No. 160,391; Oct. 24.
- Bernhard Ulmann Co. Inc., New York, N. Y. Woven textile fabrics used as foundation for art needle work. Nos. 152,525-6; Feb. 28.
- Bernhard Ulmann Co. Inc., New York, N. Y. Woven textile fabrics in the piece used as foundation for art needlework. No. 153,553; Mar. 21.
- Bernhard, Ulmann Co. Inc., New York, N. Y. Woven textile fabrics in the piece used as a foundation material for art needlework. No. 156,452; June 20.
- Bernhardt, Morris, New York, N. Y. Corn cure. No. 161,060; Nov. 7.
- Bernstein Bros., New York, N. Y. Certain household furniture. No. 151,675; Feb. 14.
- Bernstein, De Frece, New York, N. Y. Watchcases and watches. No. 161,410; Nov. 14.
- Bernstein, Paul I., San Francisco, Calif. Cigars. No. 152,685; Mar. 7.
- Bernstein, Samuel, doing business as Reliable Household Specialties Manufacturing Company, New York, N. Y. Washing compounds. No. 157,643; Aug. 15.
- Bernstein & Shulman, New York, N. Y. Misses' suits and dresses. No. 161,061; Nov. 7.
- Berriman, Charles S., New York, N. Y. Periodical published monthly. No. 152,018; Feb. 14.
- Berry-Beall Dry Goods Company, Fort Smith, Ark. Men's overalls and work shirts. No. 158,894; Sept. 19.
- Berry Brothers, Detroit, Mich. Varnishes. No. 158,386; Sept. 5.
- Berry Brothers, Detroit, Mich. Varnishes. No. 158,612; Sept. 12.
- Berry, Dr. C. H., Chemical Co., Chicago, Ill. Face cream. No. 155,620; June 6.
- Borry, R. Co., Buffalo, N. Y. Tonic for the bowels. No. 150,249; Jan. 3.
- Berst-Forster-Dixfield Company, Dixfield, Me., and New York, N. Y. Tooth picks. No. 161,348; Nov. 7.
- Bertels, W. B., & Son Co., Wilkes-Barre, Pa. Wash boilers. No. 152,686; Mar. 7.
- Bertels, W. B., & Son Co., Wilkes-Barre, Pa. Certain named receptacles. No. 154,228; Apr. 11.
- Bertley Co., The, New York, N. Y. assignor to Jean Jordeau Incorporated, South Orange, N. J. Chemical preparation for the removal of superfluous hair. No. 157,804; Aug. 15.
- Berwald, Philip M., Bradford, Pa. Chemical compound for use in connection with the removal of solid material from the oil-bearing sand in oil wells. No. 160,836; Oct. 31.
- Bes-Ben Shop, Chicago, Ill. Women's hats and furs. No. 160,137; Oct. 17.
- Bessire & Company, Indianapolis, Ind., and Louisville, Ky. Certain machines and tools and spoons of base metal. No. 150,734; Jan. 10.
- Bessire & Company, Indianapolis, Ind., and Louisville, Ky. Churns, cream mixers, cream separators, pasteurizers, etc. No. 151,429; Feb. 7.
- Besson, Adolfo, Los Lunas, N. Mex. Preparation for the treatment of blood diseases. No. 158,613; Sept. 12.
- Best Electric Corporation, New York, N. Y. Electrical apparatus and supplies. No. 161,349; Nov. 7.
- Best, Grant, Detroit, Mich. Vitamine compound. No. 159,278; Sept. 26.
- Best & Co., Inc., New York, N. Y. Certain articles of clothing. No. 161,062; Nov. 7.
- Bestever Products Co., Chicago, Ill. Ironing tablets. No. 155,309; May 23.
- Bestex Hosiery Co. Inc., New York, N. Y. Hosiery. No. 156,836; July 18.
- Bestex Hosiery Co., Inc., New York, N. Y. Hosiery. No. 158,895; Sept. 19.
- Besto Syrup Co., Des Moines, Iowa. Malt sirup for food purposes. No. 152,565; Feb. 28.
- Bethesda Mineral Spring Company, Waukesha, Wis. Carbonated and natural mineral water and ginger ale. No. 22,405; renewed Jan. 31, 1923.
- Bethlehem Fabricators, Inc., Bethlehem, Pa. Structural shapes for buildings. No. 159,659; Oct. 3.
- Bethlehem Steel Company, Bethlehem, Pa. Steel rails. No. 151,430; Feb. 7.
- Bethlehem Steel Company, Bethlehem, Pa. Guns for fixed and mobile artillery and naval guns. No. 155,383; May 30.
- Bethlehem Steel Company, Bethlehem, Pa. Sheet steel. No. 157,003; July 25.
- Bethlehem Steel Company, Bethlehem, Pa. Automobile and truck wheels. No. 160,392; Oct. 24.
- Bettalyte Incandescent Lamp Co., Inc., New York, N. Y. Incandescent electric lamps. No. 158,387; Sept. 5.
- Betterton-Rupert Coffee Co., Ashland, Ky. Coffee. No. 155,879; June 6.
- Bettes & Ebsen, New York, N. Y. Brake lining. No. 159,808; Oct. 10.
- Betts, Farron S., Brooklyn, N. Y. Album for phonograph records. No. 151,080; Jan. 24.
- Betts, Farron S., Brooklyn, N. Y. Various kinds of albums. No. 151,081; Jan. 24.
- Bevan, W. W., Company, Everett, Mass. Paper cups. No. 151,315; Jan. 31.
- Beverly Underwear Co., New York, N. Y. Children's sleeping garments. No. 154,490; Apr. 18.
- Beyerle, J. J., Mfg. Co., New York, N. Y. Rubber baby pants and waterproof house aprons. No. 151,082; Jan. 24.
- Bhutta & Pratt, Mountain View, N. J. Certain named medicinal preparation. No. 154,229; Apr. 11.
- Blanchini, Fèrier, Lyon, France. Piece goods of silk. Nos. 150,250-1; Jan. 3.
- Blanchini, Fèrier, Lyon, France. Piece goods of silk, wool, and cotton. No. 152,350; Feb. 28.
- Blanchini, Fèrier, Lyon, France. Piece goods of silk, wool, and cotton. Nos. 153,406-7; Mar. 21.
- Blanchini, Fèrier, Lyon, France. Piece goods of silk, wool, etc. No. 155,384; May 30.
- Blanchini, Fèrier, Lyons, France. Piece goods of silk, wool, linen, cotton, and china grass. No. 156,795; July 11.
- Blanchini, Fèrier, Lyon, France. Piece goods of silk, cotton, wool, and hairs. Nos. 161,411-13; Nov. 14.
- Bias Narrow Fabric Company, The, New York, N. Y. Novelty bias bindings. No. 155,621; June 6.
- Bias, Stanley C., Brooklyn, N. Y. Candy confections. No. 155,929; June 13.
- Bias, Stanley C., Brooklyn, N. Y. Flavored edible lozenges. Nos. 156,566-7; June 27.
- Bieberman Brothers, Inc., Philadelphia, Pa. Children's dresses, middie blouses, shirt waists, and skirts. No. 161,063; Nov. 7.
- Bible Land Cigar Company. (See Morrier, Hormisdas.)
- Bickmore Company, The. (See Bickmore Gall Cure Company, assignors.)
- Bickmore Gall Cure Company, Old Town, Me., assignor to The Bickmore Company. Salve. No. 21,456; renewed July 19, 1922.
- Bickum, Dorothy, New York, N. Y. Women's skirt drawers and combinations. No. 158,614; Sept. 12.
- Biedka, John P., Brooklyn, N. Y. Medicine for consumption, stomach poisoning, and for a general medicinal tonic. No. 158,182; Aug. 29.
- Bieganowski, Stanley, Chicago, Ill. Hair restorer. No. 150,252; Jan. 3.

Alphabetical list of registrants of trade-marks—Continued.

- Biffar, Fred, Chicago, Ill. Pocketknives. Nos. 153,661-2; Mar. 28.
- Biffar, Fred, Jr., Chicago, Ill. Revolvers. Nos. 155,139-40; May 16.
- Bifex Products Company, Waukegan, Ill. Automobile bumpers and parts thereof. No. 159,810; Oct. 10.
- Bifex Products Company, Waukegan, Ill., assignor to Bifex Products Company. Automobile bumpers and parts thereof. No. 160,138; Oct. 17.
- Big Store Co., The, Cincinnati, Ohio. Sporting goods. No. 153,977; Apr. 4.
- Bigelow, Bowditch & Company, Boston, Mass. Daily bulletin or news sheet of the prices of metals. No. 159,280; Sept. 26.
- Biggs Boiler Works Co., The, Akron, Ohio. Tanks. No. 153,663; Mar. 28.
- Biggs Boiler Works Co., The, Akron, Ohio. Tanks for industrial and manufacturing operations. No. 153,915; Mar. 28.
- Bilhuber, E., Incorporated, New York, N. Y. Medicinal preparations for diseases of the bladder and the gall. No. 156,182; June 20.
- Bilhuber, E., Incorporated, New York, N. Y. Medicinal preparations for treatment of diseases of the bladder and gall. No. 161,064; Nov. 7.
- Bill, Edward W., New York, N. Y. Men's and boys' hats. No. 154,491; Apr. 18.
- Bill, Edward W., New York, N. Y. Men's and boys' hats. Nos. 155,930-1; June 13.
- Bill, William C., Hartford, Conn. Men's and boys' hats. No. 151,676; Feb. 14.
- Billings Player Roll Company, Milwaukee, Wis. Player rolls for piano player. No. 151,083; Jan. 24.
- Billingsley, P. L., Company, The, Cincinnati, Ohio. Flexible driving mechanism and woodworking and grinding machinery. No. 156,837; July 18.
- Billstein-Feierman Co., Cleveland, Ohio. Certain notions. No. 158,896; Sept. 19.
- Billstein-Feierman Co., Cleveland, Ohio. Certain articles of clothing. No. 162,032; Dec. 5.
- Biloxi Fisherman's Packing Co., Biloxi, Miss. Canned oysters and shrimp. No. 152,566; Feb. 28.
- Biltwell Glove Company, Toledo, Ohio. Work shirts, mittens, leather, and fabric gloves. No. 159,167; Sept. 19.
- Binder Brothers, Inc., New York, N. Y. Certain articles of jewelry. No. 155,385; May 30.
- Binder, Richard C. R., and Laura B. Schreiber, Philadelphia, Pa., trustees of the Estate of Richard Binder, deceased. Tar and antiseptic soap. No. 157,644; Aug. 15.
- Bing, Lester, Philadelphia, Pa. Knitted and woven bloomers, vests, union suits. No. 154,492; Apr. 18.
- Bing Werke vorm. Gebrüder Bing A. G., Nuremberg, Germany. Toys. Nos. 156,183-4; June 20.
- Bing Werke vorm. Gebrüder Bing A. G., Nuremberg, Germany. Toys, particularly boxes with building elements. No. 162,033; Dec. 5.
- Binney & Smith Company, East Orange, N. J., and New York, N. Y. Modeling clay. No. 160,393; Oct. 24.
- Binney & Smith Company, East Orange, N. J., and New York, N. Y. Stenciling and marking ink. No. 162,196; Dec. 12.
- Binninger, Frank H., Cleveland, Ohio. Tire-tube patches. Nos. 156,838-9; July 18.
- Binninger, Frank H., Cleveland, Ohio. Sheet-rubber patches for tire tubes, hot-water bottles, raincoats, etc. No. 156,840; July 18.
- Binz, Edward G., Los Angeles, Calif. Cough drops. No. 158,575; Sept. 5.
- Biochemical Food Products Corporation, Chicago, Ill. General tonic and tissue-building preparation. No. 150,253; Jan. 3.
- Biozone Syndicate Limited, The, London, England. Certain medicinal preparations. No. 161,414; Nov. 14.
- Birch Chemical Co., Columbus, Ohio. Liquid dentifrices. No. 152,122; Feb. 21.
- Birch-Field, Charles A., New York, N. Y. Candy. No. 153,120; Mar. 14.
- Bird-Archer Company, The, New York, N. Y. Boiler chemicals. No. 158,184; Aug. 29.
- Birkenfeld, Strauss & Co., New York, N. Y. Aprons, bungalow aprons, and house dresses. No. 151,677; Feb. 14.
- Birkenfeld, Strauss & Co., New York, N. Y. Women's and children's textile fabric underwear, children's dresses, and women's shirt waists or blouses. No. 154,432; Apr. 11.
- Birkenfeld, Strauss & Co., New York, N. Y. Women's and children's underwear, children's dresses, and women's shirt waists or blouses. No. 155,141; May 16.
- Birkenfeld, Strauss & Co., New York, N. Y. Women's and children's underwear, children's dresses, etc. No. 157,004; July 25.
- Birkenstein, S., & Sons, Incorporated. Dusting and cleaning cloths. No. 156,102; June 13.
- Birmingham Slag Co., Birmingham, Ala. Brick and cementitious tile. No. 152,351; Feb. 28.
- Birn & Wachenheim, New York, N. Y. Transparent wrapping paper. No. 153,916; Mar. 28.
- Birtman Electric Company, Chicago, Ill. Electric motors. No. 151,431; Feb. 7.
- Birtman Electric Company, Chicago, Ill. Electric vacuum cleaners. No. 158,388; Sept. 5.
- Bishop & Company, Los Angeles, Calif. Chocolate candy. No. 156,841; July 18.
- Bishop & Company, Los Angeles, Calif. Chocolate in cake form used for coating candies, cakes, and like goods, chocolate candies, and sweet chocolate. No. 160,394; Oct. 24.
- Bishop, Harriet G., Tulsa, Okla. Preparation for the treatment of tuberculosis. No. 156,185; June 20.
- Bishop, J. H., Baltimore, Md. Hair pomade. No. 153,664; Mar. 28.
- Bishop, Joseph H., Baltimore, Md. Hair tonic. No. 151,432; Feb. 7.
- Bishop Paper Co., Inc., New York, N. Y. Bond, writing, and ledger papers. No. 160,761; Oct. 24.
- Bishop, Robert, Estate of, doing business as The Robert Bishop Mfg. Co., Boston, Mass. Cotton waste. No. 159,809; Oct. 10.
- Bishop, Robert, Mfg. Co., The. (See Bishop, Robert.)
- Bisodol Co., Inc., New York, N. Y. Medicinal preparation used as an antacid digestant. No. 157,310; Aug. 1.
- Bissell Carpet Sweeper Co., Grand Rapids, Mich. Toy carpet sweepers. No. 150,254; Jan. 3.
- Bissell Carpet Sweeping Co., Grand Rapids, Mich. Carpet sweepers. No. 153,665; Mar. 28.
- Bitu-Mo-Lin Products Co., Seattle, Wash. Veneer glue. No. 158,389; Sept. 5.
- Bitzer & Rammel, Greenfield, Mass. Medicinal preparation for asthma. No. 155,622; June 6.
- Bixler, Miles F., Company, Cleveland, Ohio. Certain articles of jewelry. No. 155,386; May 30.
- Bjorge Bros., Detroit, Minn. Insect traps. No. 159,811; Oct. 10.
- Blabon, George W., Company, The, Philadelphia, Pa. Linoleum. Nos. 150,735-6; Jan. 10.
- Blach, J., & Sons, Birmingham, Ala. Young men's and youths' coats, vests, pants, and overcoats. Nos. 157,867-8; Aug. 22.
- Black, Arthur, Toledo, Ohio. Dolls. No. 152,019; Feb. 14.
- Black, Carl A., doing business as J. Peck & Co., Cleveland, Ohio. Writing ink and ink powder. No. 161,065; Nov. 7.
- Black Hawk Tire & Rubber Company, Des Moines, Iowa. Rubber and rubber and fabric tires and inner tubes. No. 151,678; Feb. 14.
- Black Hawk Oil Company, The, Cedar Falls, Iowa. Gasoline. No. 158,616; Sept. 12.
- Black, Samuel L., doing business as Green Label Stove Polish Co., Boston, Mass. Stove polish. No. 158,897; Sept. 19.
- Black, V. E., Company, Providence, R. I. Lingerie clasps. No. 153,917; Mar. 28.
- Blacker, Dory C., Indianapolis, Ind. Seasoning preparations for soups, meats, vegetables, and fruits. No. 152,688; Mar. 7.
- Blackman, John J., doing business as Pepsol Company, Atlantic City, N. J. Tooth paste. No. 157,869; Aug. 22.
- Blades, James L., doing business as The New Jersey Products Company, Woodcliff-on-Hudson, N. J. Certain toilet preparations. No. 158,390; Sept. 5.
- Blatz, J. H., Philadelphia, Pa. Hosiery. Nos. 161,066-7; Nov. 7.
- Blach, Adolph, Inc., San Francisco, Calif. Pocketknives, scissors, pruning shears, razors, etc. No. 150,737; Jan. 10.
- Blair, B. Reilly, doing business as Cyclone Rat Destroyer Company, Audubon, Iowa. Rat, mice, and squirrel poison. No. 158,068; Aug. 22.
- Blair, J. C., Company, Huntingdon, Pa. Paper for writing and printing purposes, envelopes for correspondence, writing tablets, etc. No. 159,281; Sept. 26.
- Blair, J. C., Company, Huntingdon, Pa. Paper, correspondence envelopes, tablets, and blank books. No. 160,395; Oct. 24.
- Blair, Jean W., New York, N. Y. Pipe clamps. No. 162,000; Nov. 28.
- Blaisdell Pencil Company, Philadelphia, Pa. Lead and mechanical pencils, penholders, rubber and soap erasers. No. 153,408; Mar. 21.
- Blake & Stearns, Boston, Mass. Woolens and worsteds in the piece. No. 152,352; Feb. 28.
- Blakely Milling Co., Atlanta, Ga. Corn meal. No. 158,898; Sept. 19.
- Blakey's Boot Protectors Limited, Leeds, England. Boot polish. Nos. 162,475-6; Dec. 19.
- Blanding & Blanding Inc., Providence, R. I. Medicinal preparation for certain uses. Nos. 151,679-80; Feb. 14.
- Blanding & Blanding, Inc., Providence, R. I. Certain named medicinal preparation. No. 154,230; Apr. 11.
- Blanding and Blanding, Inc., Providence, R. I. Certain medicinal preparation. No. 157,461; Aug. 8.
- Blank, Frederic & Co., New York, N. Y. Salmon in cans or in brine. No. 156,842; July 18.
- Blank, Vernon D., doing business as Grinnell Games, Grinnell and Des Moines, Iowa. Table game played with disks and receptacles. No. 157,870; Aug. 22.
- Blanke-Baer Extract & Preserving Company, St. Louis, Mo. Jellies, fruit preserves, apple butter, and flavoring extracts. No. 159,282; Sept. 26.
- Blankenheim & Nolet's Distilleerderij. (See Blankenheim & Nolet, assignors.)

- Blankenheym & Nolet, Rotterdam, Netherlands, assignor to Blankenheym & Nolet's Distilleerderij. Geneva cordials, brandies, gins, and whiskies. No. 21,170; renewed May 24, 1922.
- Blankman, Bernard, Brooklyn, N. Y. Parlor table game. No. 160,837; Oct. 31.
- Blanton, David A., St. Louis, Mo. Shortening. No. 156,568; June 27.
- Blarette Manufacturing Co., Los Angeles, Calif. Certain ignition devices for internal-combustion engines. No. 150,738; Jan. 10.
- Blasdel Products Co. (See Shapleigh, Blasdel.)
- Blatchford Calf Meal Company, Waukegan, Ill. Food for hogs or swine. No. 150,255; Jan. 3.
- Blatt, Armand V., New York, N. Y. Hair nets. No. 153,410; Mar. 21.
- Blatt, Armand V., New York, N. Y. Hair nets. No. 154,881; May 16.
- Blatz, Val., Jr., Candy Co., Milwaukee, Wis. Candy. No. 152,689; Mar. 7.
- Blatz, Val., Jr., Candy Co., Milwaukee, Wis. Candy. No. 159,283; Sept. 26.
- Blaustein, Louis, trading as American Oil Co., Baltimore, Md. Oil and greases. No. 159,168; Sept. 19.
- Blaustein, Louis, doing business as American Oil Company, Baltimore, Md. Motor oil and greases, auto oil and greases for lubricating purposes, etc. No. 161,415; Nov. 14.
- Blaw-Knox Company, Pittsburgh, Pa. Steel buildings. No. 150,256; Jan. 3.
- Blaz-Away, Oakland, Calif. Kindling compounds. No. 151,084; Jan. 24.
- Bleaden-Dun Company, Chicago, Ill. Electromedical apparatus. No. 152,690; Mar. 7.
- Blechman, S., & Sons, Inc., New York, N. Y. Children's pants made of leather. No. 159,169; Sept. 19.
- Blekre Tire & Rubber Company, St. Paul, Minn. Automobile tires and tubes of rubber. No. 159,812; Oct. 10.
- Bleyer, Alfred, & Co., New York, N. Y. Paper plates. No. 159,608; Sept. 26.
- Blish, Mize & Silliman Hardware Co., Atchison, Kans. Certain articles of cutlery and tools. No. 156,186; June 20.
- Bliss, Elmer J., Boston, Mass. Boots and shoes. No. 161,068; Nov. 7.
- Bliss, Wm. B., Jr., & Co., assignor to Wm. B. Bliss, Jr., & Co. Incorporated, New York, N. Y. Woven and braided narrow fabrics. No. 158,617; Sept. 12.
- Bloch Bros. Tobacco Co., The, Wheeling, W. Va. Cigarettes. No. 152,353; Feb. 28.
- Bloch Bros. Tobacco Co., The, Wheeling, W. Va. Cigarettes. Nos. 153,121-2; Mar. 14.
- Bloedel Donovan Lumber Mills, Seattle and Bellingham, Wash. Certain construction materials. No. 155,932; June 13.
- Blondeau et Cie., New York, N. Y., assignors to Vinolia Company Limited. Cosmetics, salves, and ointments. No. 21,085; renewed May 10, 1922.
- Bloom, Edward Co. Inc., The, New London, Conn., and Paterson, N. J. Silk piece goods. No. 156,798; July 11.
- Bloomenfeld, Jacob, Brooklyn, N. Y. Toy horse reins and athletic wristbands. No. 153,978; Apr. 4.
- Blue Bird Inc., Perfumers. (See Crown Supply Company, assignor.)
- Blue Bird Malt Co., Baltimore, Md. Malt extract. No. 156,625; July 11.
- Blue Cross Chemical Co. Inc., The, Newark, N. J. Certain named medicinal preparations. No. 154,231; Apr. 11.
- Blue Star Knitting Co., Milwaukee, Wis. Knit underwear of wool, cotton, silk, and mixtures thereof for women and children. No. 157,005; July 25.
- Bluff City Shoe Company, The, Hannibal, Mo. Shoes of leather, canvas, rubber, etc., or combinations of same. No. 154,493; Apr. 18.
- Bluff City Shoe Company, The, Hannibal, Mo. Shoes of leather, canvas, rubber, etc., or combinations of same. No. 154,494; Apr. 18.
- Blumberg Motor Manufacturing Co., San Antonio, Tex. Tractors. No. 151,376; Jan. 31.
- Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. Nos. 150,739-40; Jan. 10.
- Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabric in the piece. No. 151,681; Feb. 14.
- Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. Nos. 152,306-7; Feb. 21.
- Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. Nos. 152,354; Feb. 28.
- Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. Nos. 156,103-8; June 13.
- Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. No. 156,419; June 20.
- Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. Nos. 158,089-93; Aug. 22.
- Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabric in the piece. No. 159,660; Oct. 3.
- Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. Nos. 159,661-2; Oct. 3.
- Blumenthal, Sidney, & Co. Inc., assignor to Central Union Trust Company of New York, trustee, New York, N. Y. Pile fabrics in the piece. Nos. 156,187-9; June 20.
- Blumenthal, Sidney, & Co., New York, N. Y., assignor to Central Union Trust Company of New York, trustee, No. 156,626; July 11.
- Blumenthal, Sidney, & Co. Inc., assignor to Central Union Trust Company of New York, trustee, New York, N. Y. Pile fabrics in the piece. No. 157,462; Aug. 8.
- Blumenthal, Sidney, & Co. Inc., assignor to Central Union Trust Company of New York, trustee, New York, N. Y. Pile fabrics in the piece. No. 161,069; Nov. 7.
- Blumenthal, Sidney, & Co. Inc., assignor to Central Union Trust Company of New York, trustee, New York, N. Y. Pile fabrics in the piece. No. 161,684; Nov. 14.
- Blumlein, Max, San Francisco, Calif. Coffee, a blend of chocolate and cocoa, macaroni, spaghetti, etc. No. 154,497; Apr. 18.
- Blystone Manufacturing Company, The, Cambridge, Pa. Mixers for plastic and granular materials. No. 155,880; June 6.
- Boake, A., Roberts & Co., London, England, assignor to A. Boake, Roberts and Company, Ltd. Preservative for beer. No. 21,782; renewed Sept. 27, 1922.
- Boake, A., Roberts and Company, Ltd. (See Boake, A., Roberts & Co., assignor.)
- Boardman, Walter L., Blossom, Tex. Hand tool for cleaning spark plugs. No. 150,741; Jan. 10.
- Boarman & Son, Chester, Pa. Ginger ale, apple juice, root beer, etc. No. 151,085; Jan. 24.
- Bob & Baskind, New York, N. Y. Men's shirts and boys' shirts and blouses. No. 154,498; Apr. 18.
- Bob & Baskind, New York, N. Y. Men's shirts, boys' shirts and blouses. No. 157,871; Aug. 22.
- Bob & Baskind, New York, N. Y. Men's shirts and boys' outer shirts and blouses. No. 158,899; Sept. 19.
- Bob & Goldfarb, New York, N. Y. Boys' and youths' dress, negligee, and work shirts, and blouses and wash-suits. No. 153,411; Mar. 21.
- Bobwhite Chemical Corporation, New York, N. Y. Insecticides, disinfectants, etc. No. 152,567; Feb. 28.
- Bobwhite Chemical Corporation, New York, N. Y. Veterinary preparation for certain named uses. No. 153,370; Mar. 14.
- Bobwhite Chemical Corporation, New York, N. Y. Insecticides, bactericides, disinfectants, and fungicides for plants. No. 153,371; Mar. 14.
- Bobwhite Chemical Corporation, New York, N. Y. Insecticides, bactericides, disinfectants, and fungicides for plants. No. 156,190; June 20.
- Bock-Lewis Co., The, Buffalo, N. Y. Finger rings. No. 156,628; July 11.
- Bock Novelty and Manufacturing Company. (See Hachmann, Frederick, assignor.)
- Bodek, W., Company, Incorporated, Philadelphia, Pa. Ribbons, cotton, woolen, and silk goods, all in the piece. No. 159,663; Oct. 3.
- Bodine Electric Company, Chicago, Ill. Monthly publication. No. 153,412; Mar. 21.
- Bodman, Ralph H., Hyannis, Mass. Artificial pearls and necklaces made from same. No. 156,629; July 11.
- Boehm, Alfred, trading as Lynx Knitting Mills, New York, N. Y. Hosiery, knitted and woven underwear, and under suits. No. 161,070; Nov. 7.
- Boehm, Henry C., Jersey City, N. J. Candy. No. 156,843; July 18.
- Boericke & Runyon Co., San Francisco and Oakland, Calif. Medicines and pharmaceutical preparations. No. 151,433; Feb. 7.
- Bogat-Weinberg Company, The, Baltimore, Md., and Washington, D. C. Men's suits, overcoats, and vests. No. 160,762; Oct. 24.
- Boiler-Kote Company, The, Alton, Ill. Preparation to prevent and remove scale from boilers. No. 153,577; Mar. 21.
- Boissonnault, G., Company, New York, N. Y. Telephonic apparatus. Nos. 156,630-1; July 11.
- Bok-A-Bel Medicine Co., The. (See Taylor, Charles G.)
- Boker Cutlery & Hardware Company, Inc., New York, N. Y. Hair clippers. No. 153,123; Mar. 14.
- Bolivar Packing Company, San Diego, Calif. Canned olives. No. 154,499; Apr. 18.
- Boller, Peter, Machine Works, Chicago, Ill. Mop wringers. No. 153,821; Mar. 28.
- Bolton, John A., trading as The Chilprufe Manufacturing Company, Leicester, England. Woolen fabrics. No. 161,417; Nov. 14.
- Bomberger Seed Company, Modesto, Calif. Alfalfa seed. No. 153,979; Apr. 4.
- Bommer, Arno M., doing business as Ayosal Co., Revere, Mass. Tooth paste. No. 161,071; Nov. 7.
- Bon Ami Co., The. (See Robertson, J. T., Soap Company, The, assignors.)
- Bon I. Look Stores Company, The, Denver, Colo. Fruits, vegetables, fish, coffee, tea, etc. No. 152,123; Feb. 21.
- Bonar-Phelps Company, New York, N. Y. Hats for men. Nos. 157,006-8; July 25.
- Bonar-Phelps Company, New York, N. Y. Hats for men. No. 157,009; July 25.
- Bonar-Phelps Company, New York, N. Y. Hats for men. No. 157,255; July 25.
- Bonar-Phelps Company, New York, N. Y. Hats for men. No. 161,072; Nov. 7.
- Bond Foundry and Machine Company, Manheim, Pa. Shaft hanger. Nos. 162,682-3; Dec. 26.

Alphabetical list of registrants of trade-marks—Continued.

- Bond, John, Tailoring Co., Denver, Colo. Coats, trousers, vests, overcoats. No. 154,587; Apr. 18.
- Bond Manufacturing Corporation, Wilmington, Del. Gun wads. No. 161,073; Nov. 7.
- Bonebrake, Bart O. M., Chicago, Ill. Game of chance played with polygonal indicia bearing numbers. No. 151,078; Jan. 24.
- Bonheim, Frank M., Licorice & Beverage Co., The. (See Bonheim, Frank M.)
- Bonheim, Frank M., doing business as The Frank M. Bonheim Licorice & Beverage Co., St. Louis, Mo. Nonalcoholic maltless beverage and sirup and extract for making same. No. 157,872; Aug. 22.
- Bonita Co., The, Fond du Lac, Wis. Candy. No. 156,844; July 18.
- Bonn, John H., doing business as The J. H. B. Company, Sioux Falls, S. Dak. Liquid and paste soaps and cleaners. No. 162,197; Dec. 12.
- Bonovin, Limited, Liverpool, England. Malt food. No. 151,682; Feb. 14.
- Bonovin, Limited, Liverpool, England. Medicated - wine tonic. No. 158,185; Aug. 29.
- Bonwit, John, Skirt Co., Inc., New York, N. Y. Ladies' and misses' outer skirts. No. 158,900; Sept. 19.
- Bonwit, Teller & Co., New York, N. Y. Certain wearing apparel—namely, brassieres, corsets, and corset covers. No. 162,950; Dec. 26.
- Boot and Shoe Recorder Publishing Company, Boston, Mass. Shoe and leather trade monthly periodical. No. 162,198; Dec. 12.
- Boot and Shoe Recorder Publishing Company, Boston, Mass. Shoe and leather trade weekly periodical. No. 162,199; Dec. 12.
- Booth Fisheries Company, Chicago, Ill. Canned sardines. No. 153,124; Mar. 14.
- Booth, Julius D., & Son, Inc., New York, N. Y. Wool and serge goods in the piece. No. 150,742; Jan. 10.
- Booth, Sannel M., Billings, Mont. Medicine for use as a blood purifier. No. 151,434; Feb. 7.
- Booth, Wilfrid I., Elmira, N. Y. Candy. Nos. 160,838-9; Oct. 31.
- Booth, Wilfrid I., Elmira, N. Y. Candy. No. 161,919; Nov. 28.
- Booth, Wilfrid I., Elmira, N. Y. Candy. No. 162,034; Dec. 5.
- Booth, Wilfrid I., Elmira, N. Y. Candy. No. 162,477; Dec. 19.
- Boots Pure Drug Company, Ltd., Nottingham, England. Toning and fixing solutions, developers, intensifiers, all used in photography. No. 161,418; Nov. 14.
- Boots Pure Drug Company, Ltd., Nottingham, England. Throat tablets. No. 161,419; Nov. 14.
- Boots Pure Drug Company, Ltd., Nottingham, England. Remedies for colds, coughs, catarrh, and inflammations. No. 161,420; Nov. 14.
- Boots Pure Drug Company, Ltd., Nottingham, England. Remedy or relief in cases of seasickness, train sickness, and nausea. No. 161,421; Nov. 14.
- Boots Pure Drug Company, Ltd., Nottingham, England. Deodorants. No. 161,422; Nov. 14.
- Boots Pure Drug Company, Ltd., Nottingham, England. Obesity and antifat remedy. No. 161,423; Nov. 14.
- Boott Mills, Lowell, Mass. Cotton cloth in the piece, towels, and toweling. No. 156,845; July 18.
- Boott Mills, Lowell, Mass. Scrim in the piece. No. 159,664; Oct. 3.
- Bo-Peep Corporation, The, Chicago, Ill. Pharmaceutical preparations. No. 161,074; Nov. 7.
- Bordeaux & New York Trading Co., New York, N. Y. Sardines. Nos. 153,413-4; Mar. 21.
- Bordeaux & New York Trading Co., New York, N. Y. Bar-le-duc jelly, mushrooms, peppers or pimientos, sardines. No. 156,503; June 27.
- Bordeaux & New York Trading Co., New York, N. Y. Sardines. No. 158,618; Sept. 12.
- Bordeaux & New York Trading Co., doing business as Etablissements Dorsay, New York, N. Y. Sardines. No. 160,396; Oct. 24.
- Borden Company, The, Warren, Ohio. Steel-bar handles for tools. No. 153,666; Mar. 28.
- Borden Company, The, New York, N. Y. Evaporated milk. No. 158,901; Sept. 19.
- Borden Company, The. (See New York Condensed Milk Company, assignor.)
- Borden, George L., Trenton, N. J. Cut glass. No. 157,010; July 25.
- Borell, John, New York, N. Y. Hair tonic and restorer. No. 161,075; Nov. 7.
- Borgenich, Louis, New York, N. Y. Children's and misses' dresses. No. 155,623; June 6.
- Borgfeldt, George, & Co., New York, N. Y. Dolls. No. 151,086; Jan. 24.
- Borgfeldt, George, & Co., New York, N. Y. Sewing-needles. No. 151,683; Feb. 14.
- Borgfeldt, George, & Co., New York, N. Y. Dolls. Nos. 152,357-8; Feb. 28.
- Borgfeldt, George, & Co., New York, N. Y. Hollow aluminum ware: teapots, coffee-pots, percolators, kettles, etc. No. 155,205; May 23.
- Borgfeldt, George, & Co., New York, N. Y. Cooking dishes for top stoves. No. 156,846; July 18.
- Borgfeldt, George, & Co., New York, N. Y. Certain electric household appliances. No. 158,391; Sept. 5.
- Borgfeldt, George, & Co., New York, N. Y. Soap. No. 160,397; Oct. 24.
- Borgfeldt, George, & Co., New York, N. Y. China tableware. No. 161,076; Nov. 7.
- Borgfeldt, George, & Co., New York, N. Y. Toilet soap. No. 161,750; Nov. 21.
- Borgfeldt, George, & Co., New York, N. Y. Dolls. No. 161,920; Nov. 28.
- Borkowski, Wladyslaw, Brooklyn, N. Y. Compound for relieving fever. No. 152,124; Feb. 21.
- Bornstein, Alfred, Seattle, Wash. Toilet mirrors having electrical means for illuminating the faces of those looking thereto. No. 153,918; Mar. 28.
- Borromite Company of America, Chicago, Ill. Water-softening apparatus. No. 154,882; May 16.
- Borsch, Jean L., Paris, France. Optical lenses and lens blanks used in correcting eyesight. No. 162,478; Dec. 19.
- Borsch, Jean L., Paris, France. Optical lenses and lens blanks used in correcting eyesight. Nos. 162,684-5; Dec. 26.
- Bosch, Robert, Aktiengesellschaft, Stuttgart, Germany. Oil pumps for lubricating motors and similar machines. No. 153,640; Mar. 28.
- Bosch, Robert, Aktiengesellschaft, Stuttgart, Germany. Certain electrical apparatus. No. 161,390; Nov. 14.
- Boschen, Herman C., Richmond, Va. Blank forms for checks, shopping checks, promissory notes, and drafts. No. 150,743; Jan. 10.
- Boss Manufacturing Company, Kewanee, Ill., and Brooklyn, N. Y. Fabric gloves and mittens. Nos. 158,902-3; Sept. 19.
- Boss Washing Machine Company, The, Norwood, Ohio. Washing machines for laundry purposes. No. 158,186; Aug. 29.
- Boston Blacking Company, Portland, Me., and East Cambridge, Mass. Soap. No. 155,387; May 30.
- Boston Confectionery Company, Cambridge, Mass. Candy. No. 157,645; Aug. 15.
- Boston Detachable Point Pick Co., Boston, Mass. Pick heads. No. 161,751; Nov. 21.
- Boston Drinking Cup Co., Boston, Mass. Paper drinking cups. No. 162,686; Dec. 26.
- Boston Food Products Co., East Boston, Mass. Meats, hash, soup, bouilli, bread, vegetables. No. 159,284; Sept. 26.
- Boston Last Co., Boston, Mass. Embossing leaf. No. 153,667; Mar. 28.
- Boston Mfg. Company, 1901, The, Waltham, Mass. Cotton piece goods. No. 152,359; Feb. 28.
- Boston Manufacturing Company, 1901, The, Waltham, Mass. Cotton piece goods. Nos. 153,415-7; Mar. 21.
- Boston Molasses Company, Boston, Mass. Molasses. No. 160,398; Oct. 24.
- Boston Molasses Company, Boston, Mass. Molasses. No. 161,752; Nov. 21.
- Boston Pressed Metal Company, Worcester, Mass. Last thimbles. No. 152,360; Feb. 28.
- Boston Woven Hose & Rubber Company, Cambridge, Mass. Fibrous or rubber belting. No. 160,399; Oct. 24.
- Boston & Lockport Block Company, Boston, Mass. Pulleys or blocks. Nos. 159,285-6; Sept. 26.
- Botelho, Francis M., trading as Francis M. Botelho Co., Philadelphia, Pa. Pearls, necklaces, and clasps. No. 156,632; July 11.
- Bothe, William, Cleveland, Ohio. Pile suppositories. No. 154,232; Apr. 11.
- Bottieri, Henry, doing business as International Fireworks Co., Schenectady, N. Y. Fireworks. No. 162,687; Dec. 26.
- Boulin, Camille H., doing business as Canson & Montgolfier, New York, N. Y. Handmade paper. No. 159,304; Sept. 26.
- Bound Brook Oil-Less Bearing Company, Boundbrook, N. J. Engine and machine bearings and bushings. No. 155,933; June 13.
- Bourjois, A., & Co. Inc., New York, N. Y. Toilet powders and compacts. No. 155,624; June 6.
- Bourjois, A., & Co. Inc., New York, N. Y. Toilet powders and compacts. No. 157,463; Aug. 8.
- Bourjois, A., & Co. Inc., New York, N. Y. Soaps. Nos. 157,646-7; Aug. 15.
- Bourjois, A., & Co. Inc., New York, N. Y. Rouge and compact powders. No. 158,187; Aug. 29.
- Bourjois, A., & Co. Inc., New York, N. Y. Rouge. No. 158,188; Aug. 29.
- Bourjois, A., & Co. Inc., New York, N. Y. Perfumes sold as extracts and lotions. No. 158,189; Aug. 29.
- Bourjois, A., & Co. Inc., New York, N. Y. Rouge in the nature of compact and face powder. No. 158,190; Aug. 29.
- Bourjois, A., & Co. Inc., New York, N. Y. Rouge, being in the nature of a compact face powder. No. 158,191; Aug. 29.
- Bourjois, A., & Co. Inc., New York, N. Y. Rouge, rouge powder, liquid rouge, lip salve, etc. No. 158,192; Aug. 29.
- Bourjois, A., & Co. Inc., New York, N. Y. Toilet powder, toilet water and lotions, sachet powder, etc. No. 161,077; Nov. 7.
- Bourne, Clifford N., Syracuse, N. Y. Printed books. No. 159,287; Sept. 26.
- Bourne-Fuller Company, The. (See Upson Nut Company, The, assignor.)

- Bousman Manufacturing Company, Grand Rapids, Mich. Gasoline and oil stills. No. 150,744; Jan. 10.
- Bousman Manufacturing Company, Grand Rapids, Mich. Filters. No. 151,087; Jan. 24.
- Bousquet, Paul L., doing business as Fruit-oil-ets Laboratories, Dayton, Ohio. Stomach, bowel, and liver tonic. No. 160,840; Oct. 31.
- Bowdish, Gordon S., New Orleans, La. Bituminous cement. No. 159,665; Oct. 3.
- Bowe, Elbert I., Huron, S. D. Mud jack for automobiles. No. 150,745; Jan. 10.
- Bowelax Co. (See Loesch, Ellsworth).
- Bowen, Edward J., doing business as The Genuine Crude Oil Company, New York, N. Y. Hair grower and shampoo. No. 158,392; Sept. 5.
- Bowen Products Corporation, Auburn, N. Y. Lubricating system or apparatus and parts thereof for motor cars and trucks. No. 162,688; Dec. 26.
- Bowes, Robert M., Company, Inc., Indianapolis, Ind. Puncture and blow-out sealing compounds. No. 150,667; Jan. 3.
- Bowman Drug Co., Oakland, Calif. Certain toilet preparations. No. 150,258; Jan. 3.
- Bowman Drug Co., Oakland, Calif. Mouth wash. No. 155,625; June 6.
- Bowman Drug Company, Oakland, Calif. Rubbing preparation for external use. No. 160,841; Oct. 31.
- Bowman, Geo. H., Company, The, Cleveland, Ohio. Toy tea and cooking sets. No. 153,125; Mar. 14.
- Bowman, Glenn F., and Charles F. C. Arensberg, Pittsburgh, Pa. Dentifrice. No. 161,424; Nov. 14.
- Bowser, S. F., & Company, Inc., Fort Wayne, Ind. Dispensers and measuring pumps and meters for liquid fuels and lubricants. No. 159,288; Sept. 26.
- Bowyer, Ambrose, Chicago, Ill. Periodicals published monthly. No. 157,464; Aug. 8.
- Box, William A., Iron Works Co., The, Denver, Colo. Sirens for signaling, etc. No. 153,668; Mar. 28.
- Boyce & Veeder Company, Inc., Long Island City, N. Y. Portable fire extinguishers. No. 160,400; Oct. 24.
- Boyd, Chas. R., San Francisco, Calif. Complexion powder. No. 150,259; Jan. 3.
- Boyd, John S., Company Inc., Williamstown, Mass. Cotton pile cloth in the piece. No. 160,081; Oct. 10.
- Boyd-Welsh Shoe Company, St. Louis, Mo. Leather and cloth shoes. No. 154,495; Apr. 18.
- Boyer, Frank A., doing business as Boyer & Co., Philadelphia, Pa. Glue. No. 160,139; Oct. 17.
- Boyer & Co. (See Boyer, Frank A.)
- Boyle-Dayton Co., The, Los Angeles, Calif. Pumps and compressors. No. 150,747; Jan. 10.
- Boyle-Dayton Co., The, Los Angeles, Calif. Water, oil, gasoline, and other liquid pumps. No. 154,233; Apr. 11.
- Boyle, Fayette J., Portland, Oreg. Fishing spinners, used as artificial bait. No. 151,020; Jan. 10.
- Boyle, John, & Company, Incorporated, New York, N. Y. Certain textile fabrics. No. 150,746; Jan. 10.
- Boyle, John, & Company, Incorporated, New York, N. Y. Cotton duck. No. 161,078; Nov. 7.
- Boysiform Brassiere Co., The, New York, N. Y. Bras-sieres. No. 162,001; Nov. 28.
- Boyst, Charles H., Greensboro, N. C. Pieces of chewing candy commonly known as kisses. No. 158,619; Sept. 12.
- Bozan Sales Corporation. (See Brazilian Coffee Houses, Inc., assignor.)
- Bozardt, Ernest M., San Jacinto, Calif. Face cream. No. 153,980; Apr. 4.
- Brach, L. S., Mfg. Co. Inc., Newark, N. J. Electric heating and soldering irons, lightning arresters. No. 152,691; Mar. 7.
- Brach, Leon S., Newark, N. J. Thermometers and thermometric instruments. No. 153,669; Mar. 28.
- Bradford-Brown Company, Chicago, Ill. Preparation for cleaning and polishing automobiles, furniture, wood-work, and floors. No. 161,350; Nov. 7.
- Bradley, C. C., & Son, Syracuse, N. Y. Power hammers. No. 155,934; June 13.
- Bradley, James J., New York, N. Y. Toilet soap. No. 157,256; July 25.
- Bradley Pulverizer Co., Boston, Mass. Grinding and pulverizing mills. No. 153,670; Mar. 28.
- Bradley & Vrooman Company, Chicago, Ill. Dry, paste, and ready-mixed paints. No. 152,568; Feb. 28.
- Bradley & Vrooman Company, Chicago, Ill. Ready-mixed paints, varnishes, stains, and enamel paints. No. 158,620; Sept. 12.
- Bradner Company, The, Seattle, Wash. Butter. No. 153,578; Mar. 21.
- Bradshaw, Edward D., New York, N. Y. Salted popcorn and popcorn in its natural state. No. 151,684; Feb. 14.
- Bradt, Charles C., assignor to U. S. Oil Works, Omaha, Nebr. Internal-combustion engines and bearing oils. No. 162,689; Dec. 26.
- Brady, Byron, Scranton, Pa. Child's toy vehicle. No. 157,873; Aug. 22.
- Brady, James A., Foundry Company, Chicago, Ill. Stokers. No. 157,410; Aug. 1.
- Brady, James E., Cottage Grove, Tenn. Medicinal preparation for stomach and bowel disorders. No. 151,088; Jan. 24.
- Braender Rubber & Tire Co., Rutherford, N. J. Inner tubes, tires, and tire casings. No. 159,813; Oct. 10.
- Brafman, Solomon B., New York, N. Y. Cigars. No. 150,748; Jan. 10.
- Bragno & Mustari, Chicago, Ill. Tomato sauce, canned olives, cotton-seed salad oil. No. 156,633; July 11.
- Bragno & Mustari, Chicago, Ill. Macaroni. No. 156,634; July 11.
- Bragno & Mustari, Chicago, Ill. Olive oil. No. 158,393; Sept. 5.
- Brainerd & Armstrong Company, The, New London, Conn. Artificial-silk threads. No. 157,011; July 25.
- Braly, N. B., Butte, Mont. Coal. Nos. 162,690-1; Dec. 26.
- Brammer, Roy, Huntington, W. Va. Newspaper sections. No. 157,648; Aug. 15.
- Brandes, C., Inc., New York, N. Y. Telephone receivers designed for use in signaling. No. 160,082; Oct. 10.
- Brandes, C., Inc., New York, N. Y. Telephone receivers designed for use in signaling systems. No. 161,010; Oct. 31.
- Brann, Thomas F., doing business as Digestalac Co., Lincoln, Kans. Laxative compound for aiding digestion. No. 161,079; Nov. 7.
- Branower, George I., doing business as Say Drug Products Co., New York, N. Y. Preparations for the treatment of coughs and colds. No. 157,874; Aug. 22.
- Branower, George I., doing business as Say Drug Products Co., New York, N. Y. Preparation for the treatment of pyorrhea. No. 157,875; Aug. 22.
- Branson, Howard I., & Co., Philadelphia, Pa. Children's dresses, coats, and caps. No. 158,621; Sept. 12.
- Brassington Photo System, Inc., Chicago, Ill. Gummed photographs for advertising purposes. No. 152,020; Feb. 14.
- Brauer, Julius H., Buffalo, N. Y. Bluing. No. 157,311; Aug. 1.
- Braun, John, & Sons, assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa. Machines for cleaning lawn surfaces. No. 150,749; Jan. 10.
- Braun, John, & Sons, assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa. Lawn mowers. Nos. 150,750-5; Jan. 10.
- Braunschweiger Cementwerke, Brunswick, Germany. Cement. No. 19,874; renewed July 14, 1920.
- Brawley, Thella R., Brooklyn, N. Y. Chair pads. No. 151,685; Feb. 14.
- Brayley, Arthur W., Dorchester, Mass. Periodical published monthly. No. 154,883; May 16.
- Brazilian Coffee Houses, Inc., assignor to Bozan Sales Corporation, New York, N. Y. Coffee. No. 157,649; Aug. 15.
- Brecht Candy Company, The, Denver, Colo. Candy known to the trade as suckers. No. 154,500; Apr. 18.
- Brecht Candy Company, The, Denver, Colo. Candy. No. 161,011; Oct. 31.
- Breeze, Herbert J., Portland, Oreg. Wooden flooring. No. 154,823; May 9.
- Bredar, Jos. L., Rock Island, Ill. Shims. No. 161,753; Nov. 21.
- Breier's, Marcus, Sons, New York, N. Y. Clothing. No. 161,425; Nov. 14.
- Breinig Brothers, Inc., Hoboken, N. J. Certain paints, varnishes, enamels, and shellacs, etc. No. 151,089; Jan. 24.
- Bremer, O. A., Co., Burlington, Iowa. Certain machinery and tools. No. 151,435; Feb. 7.
- Brenard Manufacturing Company, Iowa City, Iowa. Phonographic machines. No. 155,206; May 23.
- Brennan Packing Co., Chicago, Ill. Packing-house products. No. 150,260; Jan. 3.
- Brent, Daniel, doing business as Radio Instrument Company, Washington, D. C. Radio, telegraph, and telephone transmitting and receiving apparatus. No. 160,850; Oct. 31.
- Brett Manufacturing Company, Inc., New York, N. Y. Hair nets. No. 156,191; June 20.
- Breuner, John, Company, Sacramento, Calif. Certain household furniture. No. 153,418; Mar. 21.
- Brewster, Gordon, & Co., Rochester, N. Y. Coffee. No. 154,501; Apr. 18.
- Brewster, Gordon & Co. Inc., Rochester, N. Y. Coffee. No. 154,778; May 9.
- Brewster Publications, Inc., Brooklyn, N. Y. Monthly publication. No. 153,904; Sept. 19.
- Brewster Sons Company, Newark, N. J. Chocolate, cocoa, and candies. No. 158,905; Sept. 19.
- Breyer Ice Cream Company, Philadelphia, Pa. Ice cream. No. 152,569; Feb. 28.
- Brickwedel, Arnold H., San Francisco, Calif. Fresh, dried, and canned fruits and vegetables, olives, pickles, honey, oil, and condiments. No. 162,200; Dec. 12.
- Briden, L. L., & Co., Boston, Mass. Dyes. No. 159,666; Oct. 3.
- Briden, L. L., & Co., Boston, Mass. Dyes. No. 159,814; Oct. 10.
- Briden, L. L., & Co., Boston, Mass. Dyes. No. 161,080; Nov. 7.
- Bridgeport Brass Company, Bridgeport, Conn. Brass rods. No. 157,465; Aug. 8.
- Bridgeport Brass Company, Bridgeport, Conn. Brass pipe. No. 159,289; Sept. 26.
- Bridgeport Brass Company, Bridgeport, Conn. Nonferrous metals in the form of ingots, billets, slabs, sheets, wire, rods, and tube blanks. No. 160,401; Oct. 24.
- Bridgeport Coach Lace Co., The, Bridgeport, Conn. Rubberized top fabric. No. 152,050; Feb. 14.

Alphabetical list of registrants of trade-marks—Continued.

- Bridgeville Packing Association, Bridgeville, Del. Certain named foods. No. 154,502; Apr. 18.
- Bridgewater Plow Corporation, Bridgewater, Va. Hand garden plows and seeders, hand garden hoe cultivators, and parts thereof. No. 154,433; Apr. 11.
- Brien Manufacturing Co., Oakland, Calif. Tablecloths and napkins. No. 150,261; Jan. 3.
- Brierley, John R., Brooklyn, N. Y. Chemical compound for treating the nasal cavities and throat. No. 150,262; Jan. 3.
- Briggs, Grace E., Hutchinson, Kans. Leather, fabric, and composition foot-coverings, supports, said supports forming part of the slipper. No. 154,496; Apr. 18.
- Briggs, Ray E., Los Angeles, Calif. Liquid automobile polish. No. 154,884; May 16.
- Briggs & Stratton Company, Milwaukee, Wis. Monthly magazines. No. 151,686; Feb. 14.
- Briggs & Stratton Company, Milwaukee, Wis. Detachable hydrocarbon-motor wheels for bicycles, etc. No. 153,126; Mar. 14.
- Briggs & Stratton Company, Milwaukee, Wis. Radio apparatus. No. 162,201; Dec. 12.
- Briggs & Stratton Company, Milwaukee, Wis. Automatic electric horns or warning signals. No. 162,202; Dec. 12.
- Bright, John, Shoe Stores Co., Bridgewater, Mass. Leather boots and shoes. No. 161,081; Nov. 7.
- Brignall, Guy E., doing business as Rex Mineral Soap Company, Aurora, Ill. Mineral soap. No. 161,426; Nov. 14.
- Brill, Alfred B., Stratford, Conn. Tooth paste. No. 151,436; Feb. 7.
- Brilliantone Steel Needle Co. of America, Inc., New York, N. Y. Talking-machine needles. No. 152,692; Mar. 7.
- Brine, James W., Company, The, Boston, Mass. Certain sporting goods. Nos. 162,203-5; Dec. 12.
- Bristol, William J., doing business as The Colonial Pretzel Company, Alexandria, Va. Pretzels. No. 159,815; Oct. 10.
- British Alizarine Company Limited, The, London, England. Artificial alizarin used in dyeing and printing of textile fabrics. No. 153,671; Mar. 28.
- British America Paint Company, Limited, Victoria, British Columbia, Canada. Shingle stain, ready-mixed paint, varnish. No. 150,263; Jan. 3.
- British-American Tobacco Company, Limited, New York, N. Y. Smoking tobacco and cigarettes. No. 155,388; May 30.
- Britt Manufacturing Company, Jacksonville, Fla. Tonic for certain named uses. No. 150,264; Jan. 3.
- Brittains Limited, Cheddleton, England. Certain papers. No. 154,885; May 16.
- Brittains Limited, Cheddleton, Staffordshire, England. Certain named papers. No. 155,207; May 23.
- Broadway Bargain House, New York, N. Y. Certain articles of clothing. No. 151,292; Jan. 24.
- Broadway Bargain House, New York, N. Y. Certain textile fabrics and piece goods, hair nets, and lace curtains. No. 152,051; Feb. 14.
- Brockhoff, Josie, Salt Lake City, Utah. Medicinal preparation for the treatment of diseases of the female organs. No. 151,687; Feb. 14.
- Brockman Company, The, Chicago, Ill. Auto seats, camp and folding chairs. No. 153,419; Mar. 21.
- Brockmann & Company, Charlotte, N. C. Completely-printed books. No. 155,208; May 23.
- Brockton Rand Company, Montello, Brockton, Mass. Welt-ing. No. 154,886; May 16.
- Broderick & Bascom Rope Company, St. Louis, Mo. Vehicle towlines. No. 159,609; Sept. 26.
- Brodinsky, David, doing business as Reliable Dry Goods Co., Springfield, Mass. Hosiery and underwear of knitted and textile fabric. No. 157,876; Aug. 22.
- Brody, F., & Sons Co., Des Moines, Iowa. Playsuits. No. 156,109; June 13.
- Brody, F., & Sons Co., Des Moines, Iowa. Overalls, shirts, undershirts, men's, women's, and children's underwear, hosiery, and belts, and one-piece work garments. No. 158,622; Sept. 12.
- Broenniman Export Corporation, New York, N. Y. Wheat flour. Nos. 159,816-19; Oct. 10.
- Brohman Company, New York, N. Y. Children's dresses. No. 150,265; Jan. 3.
- Brohman Company, New York, N. Y. Children's dresses. No. 157,466; Aug. 8.
- Brohman Company, New York, N. Y. Children's dresses. No. 161,082; Nov. 7.
- Brokaw, D. D., & Son, New York, N. Y. Finger rings, brooches, bar pins, lavallières, and scarf pins. No. 158,193; Aug. 29.
- Bromley, John, & Sons, Inc., Philadelphia, Pa. Woven rugs and carpets. No. 152,693; Mar. 7.
- Bromograph, A.-G. Mannheim, Mannheim, Germany. Chemicals used in photography. Nos. 158,194-5; Aug. 29.
- Bromograph A.-G. Mannheim, Mannheim, Germany. Photographic-printing machines and their parts and sensitized photographic paper. No. 159,667; Oct. 3.
- Brompton Pulp & Paper Co. Limited, The, Montreal, Quebec, Canada. Newsprint paper. No. 154,887; May 16.
- Bronchotone Manufacturing Co., Shreveport, La. Pharmaceutical preparation of creosote for treatment of certain ailments. No. 150,756; Jan. 10.
- Brooke, Benjamin, & Company, Philadelphia, Pa., assignor to Lever Brothers Company. Laundry soap. No. 21,671; renewed Aug. 23, 1922.
- Brooke, Benjamin, & Company, Philadelphia, Pa., assignor to Lever Brothers Company. Laundry soap. No. 21,676; renewed Aug. 23, 1922.
- Brooklyn Fire Brick Works, Inc., Brooklyn, N. Y. Building cement. No. 152,694; Mar. 7.
- Brooklyn Galvanizing & Mfg. Co. Inc., New York, N. Y. Certain metal sheets, wire, tin-plate, and tool and special steels. No. 150,757; Jan. 10.
- Brooklyn Shield Company, Brooklyn, N. Y. Waterproof clothing. No. 161,885; Nov. 14.
- Brooklyn Shield Co., The, Brooklyn, N. Y., assignor to Brooklyn Shield & Rubber Company. Armpit shields. No. 20,911; renewed Mar. 29, 1922.
- Brooklyn Shield Co., Brooklyn, N. Y., assignor to Brooklyn Shield & Rubber Company. Armpit shields. No. 20,970; renewed Apr. 12, 1922.
- Brooklyn Shield & Rubber Company. (See Brooklyn Shield Co., assignor.)
- Brooklyn Shield & Rubber Co. Dress shields. No. 156,110; June 13.
- Brooklyn Shield & Rubber Company, Brooklyn, N. Y. Waterproof bloomers and baby pants. No. 160,763; Oct. 24.
- Brooks Brothers Drug Company. (See Brooks, Charles J.)
- Brooks, Charles J., doing business as Brooks Brothers Drug Company. Medicinal preparation recommended as a mop and gargle. No. 159,820; Oct. 10.
- Brooks Company, The, Fort Scott, Kans. Poultry feed. No. 159,290; Sept. 26.
- Brooks, Elmer A., doing business as The Brooks Piano Company, Minneapolis, Minn. Upright pianos, grand, player, and reproducing pianos. No. 159,170; Sept. 19.
- Brooks, Franklin. (See Munsell, E., Kingsley, and Brooks.)
- Brooke, Frederick W., Toronto, Ontario, Canada. Breath perfume. No. 162,035; Dec. 5.
- Brooks Piano Company, The. (See Brooks, Elmer A.)
- Brooks, Stephen H., Cleveland, Ohio. Fire-extinguishing liquid. No. 152,695; Mar. 7.
- Brooks, Stephen H., Cleveland, Ohio. Fire-extinguishing liquid. No. 158,152; Aug. 22.
- Brooks, Stephen H., doing business as Underwriters' Fire Equipment Company, Cleveland, Ohio, and Muskogee, Okla. Hand fire extinguishers. No. 160,083; Oct. 10.
- Brooks Tent & Awning Company, The, Denver, Colo. Tents. No. 162,692; Dec. 26.
- Brooks & Co. Inc., Boston, Mass. Shoe parts—namely, rubber heels. No. 151,090; Jan. 24.
- Brooks & Co. Inc., Boston, Mass. Rubber heels. No. 156,192; June 20.
- Brososky, Frank, Haywood, W. Va. Rat poison. No. 157,878; Aug. 22.
- Brouwer, S. J., Shoe Company, Milwaukee, Wis. Shoes. No. 161,083; Nov. 7.
- Brower Candy Co., Atlanta, Ga. Candy. No. 154,503; Apr. 18.
- Brower and Werle, Sellersburg, Ind. Wall plaster. No. 153,981; Apr. 4.
- Brown, Arthur A., St. Louis, Mo. Filling material for filling root canals of teeth. No. 161,686; Nov. 14.
- Brown Bag Filling Machine Company, Fitchburg, Mass. Spark plugs. No. 156,635; July 11.
- Brown, Berence, Flushing, N. Y. Leather and canvas boots and shoes. Nos. 161,351-2; Nov. 7.
- Brown, Betty, Co., Peoria, Ill. Children's and ladies' dresses. No. 162,951; Dec. 26.
- Brown, C. P., Mfg. Co., Des Moines, Iowa. Overalls, coats, pants, knickers, and work shirts. No. 160,140; Oct. 17.
- Brown, C. P., Mfg. Co., Des Moines, Iowa. One-piece work suits. No. 160,141; Oct. 17.
- Brown, Charley L., Oklahoma, Okla. Tire-sealing compound. No. 151,317; Jan. 31.
- Brown, Clarence W., Philadelphia, Pa. Candies. No. 151,688; Feb. 14.
- Brown Company, Portland, Me. Writing and printing paper. No. 151,091; Jan. 24.
- Brown Company, Portland, Me., and Berlin, N. H. Icings, coatings, frostings. No. 152,361; Feb. 28.
- Brown Company, Portland, Me. Paper products. No. 159,291; Sept. 26.
- Brown Durrell Co., Boston, Mass. Certain articles of clothing. No. 154,888; May 16.
- Brown, Henry S., Seattle, Wash. Mayonnaise salad dressing, Thousand-Island dressing. No. 152,362; Feb. 28.
- Brown, J. A., & Son, Drill, Va. Medicine used in the treatment of rheumatism, swollen joints, etc. No. 150,266; Jan. 3.
- Brown, Jeanette G., Chicago, Ill. Liquid face powder. No. 152,125; Feb. 21.
- Brown, L. L., Paper Company, Adams, Mass. Writing papers. No. 152,570; Feb. 28.
- Brown, Peabody A., Denver, Colo. Disinfecting and fumigating chemicals. No. 155,626; June 6.
- Brown, R. J., Petroleum Company, St. Louis, Mo. Naphtha and lubricating oils and greases. No. 158,906; Sept. 19.
- Brown, Rachel W., assignor to H. H. Simons, Detroit, Mich. Medicine for certain diseases. No. 157,877; Aug. 22.

- Brown, Raymond C., New York, N. Y. Shampooing preparations. No. 155,627; June 6.
- Brown, Richard H., doing business as Halliwell & Company, New York, N. Y. Gas heaters for hair-drying apparatus and curling irons. No. 159,821; Oct. 10.
- Brown, S. W., Company, Glendale, Calif. Certain nonintoxicating, noncereal, maltless beverages. No. 161,085; Nov. 7.
- Brown Shoe Company, Inc., St. Louis, Mo. Shoes for children. No. 151,092; Jan. 24.
- Brown Shoe Company, Inc., St. Louis, Mo. Boys' shoes of leather. No. 151,689; Feb. 14.
- Brown Shoe Company, Inc., St. Louis, Mo. Shoes for women made of leather. No. 154,505; Apr. 18.
- Brown Shoe Company, Inc., The, St. Louis, Mo. Leather and leather and fabric shoes. No. 156,111; June 13.
- Brown Shoe Company, Inc., The, St. Louis, Mo. Leather shoes. No. 156,112; June 13.
- Brown Shoe Company, Inc., St. Louis, Mo. Shoes. No. 157,012; July 25.
- Brown Shoe Company, Inc., St. Louis, Mo. Men's leather shoes. No. 157,013; July 25.
- Brown Shoe Company, St. Louis, Mo. Shoes. No. 157,014; July 25.
- Brown, Susan E., Harrow, England. Face cream and powders, etc., for theatrical make-up. No. 153,982; Apr. 4.
- Brown, Thos. H., Philadelphia, Pa. Hosiery. No. 155,935; June 13.
- Brown, Young & Co. Inc., New York, N. Y. Dehydrated whole eggs, egg yolk, and egg albumen. No. 159,822; Oct. 10.
- Brown & Bigelow, St. Paul, Minn. Pencils, leads, and erasers. No. 153,420; Mar. 21.
- Brown & Bigelow, St. Paul, Minn. Blotters, pencils, and memorandum pads. No. 159,292; Sept. 26.
- Brown & Bigelow, St. Paul, Minn. Pencils. No. 160,402; Oct. 24.
- Brown & Godet, Philadelphia, Pa. Naval uniforms. No. 154,504; Apr. 18.
- Brown & Pengilly, Los Angeles, Calif. Overload relays. No. 158,394; Sept. 5.
- Brown & Silverman, New York, N. Y. Women's silk and muslin underwear. No. 161,084; Nov. 7.
- Browne, Stewart R., Mfg. Co. Inc., New York, N. Y. Shredded metallic packing. No. 161,687; Nov. 14.
- Browning, Anna G., Philadelphia, Pa. Certain medicinal preparations. No. 152,126; Feb. 21.
- Browning Company, The, Cleveland, Ohio. Locomotive cranes, clamshell buckets, revolving shovels, etc. No. 160,084; Oct. 10.
- Browning, H. P., New York, N. Y. Garment bags made of paper. No. 158,623; Sept. 12.
- Brownley, Walter, Washington, D. C. Candy. No. 160,085; Oct. 10.
- Brownson, Victor H., doing business as Bankers Service Company of Pennsylvania, Pittsburgh, Pa. Annual publication. No. 158,907; Sept. 19.
- Brownstein-Louis Co., Los Angeles, Calif. Garment to be worn both as a sleeping robe and lounging robe. No. 157,015; July 25.
- Bruce, E. L., Company, Little Rock, Ark., and Memphis, Tenn. Sheets and strips of veneer for linings for closets, chests, and the like. No. 160,403; Oct. 24.
- Bruck, Sam. Inc., New York, N. Y. Edible vegetable oils. No. 152,363; Feb. 28.
- Brude, Arthur C., Virginia, Minn. Game. No. 152,364; Feb. 28.
- Bruder, Edmund, Chicago, Ill. Game boards, indicator counter, etc., and games played with a counter, indicator, or game piece. No. 157,879; Aug. 22.
- Brueck, Joseph, New York, N. Y. Nail polish. No. 150,267; Jan. 3.
- Bruknes, Vincent F., Chicago, Ill. Certain medicinal and toilet preparations. No. 158,196; Aug. 29.
- Brune, Potberg & Co., New York, N. Y. Cotton piece goods. No. 154,234; Apr. 11.
- Brune, Potberg & Co., New York, N. Y. Cotton piece goods. No. 155,389; May 30.
- Bruning, William H., Evansville, Ind. Coffee. No. 150,268; Jan. 3.
- Brunner Woolen Co., Inc., The, New York, N. Y. Serge in the piece. No. 158,335; Aug. 29.
- Bruno, C., & Son, Inc., New York, N. Y. Violin strings. No. 153,127; Mar. 14.
- Bruno, C., & Son, Inc., New York, N. Y. Certain named stringed musical instruments and parts thereof. No. 153,198; Aug. 29.
- Bruno, James, Brooklyn, N. Y. Fresh grapes. No. 160,404; Oct. 24.
- Bruus, Benjamin J., Cincinnati, Ohio. General medicinal system tonic. No. 150,269; Jan. 3.
- Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, Ill. Refrigerators. No. 152,127; Feb. 21.
- Brunswick-Balke-Collender Company, The, Chicago, Ill. Sound reproducers for phonographs. No. 154,889; May 16.
- Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, Ill. Bowling-alley ball returns. No. 154,890; May 16.
- Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, Ill. Phonographs and phonograph records. No. 156,636; July 11.
- Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, Ill. Rubber or rubber and fabric tires and tubes for vehicles. No. 156,827; July 11.
- Brush, Charles L., San Francisco, Calif. Candy sandwiches. No. 154,769; May 2.
- Brush, Chas. L., doing business as More Candy Co., Los Angeles, Calif. Cough drops. No. 160,842; Oct. 31.
- Brust, Albert, Jr., Scranton, Pa. Eggs and live chickens. No. 153,128; Mar. 14.
- Bryan & Sandbach, Jersey City, N. J. Coaster car for children. No. 157,880; Aug. 22.
- Bryant, August H., assignor to International Safety Razor Corporation, Bloomfield, N. J. Razor blades. No. 160,086; Oct. 10.
- Bryant Electric Company, The, Bridgeport, Conn. Electric-lamp sockets and switches and parts thereof. No. 151,437; Feb. 7.
- Bryant Electric Company, The, Bridgeport, Conn. Cover plates for electrical wiring devices. No. 155,628; June 6.
- Bryant, French & Company, Minneapolis, Minn. Certain medicinal preparations. No. 157,881; Aug. 22.
- Bryant Heater and Manufacturing Co., The, Cleveland, Ohio. Tubular gas boilers. No. 160,142; Oct. 17.
- Bryant, Lane. (See Leopold, Louis A.)
- Bryant Zinc Company, Chicago, Ill. Electric highway-crossing signal. No. 151,438; Feb. 7.
- Bryden Horse Shoe Company, Catsaugua, Pa., assignor to Manufacturers Iron & Steel Company. Animal shoes. No. 21,866; renewed Oct. 18, 1922.
- Buchsbaum, Samuel, Chicago, Ill. Belt buckles. No. 155,629; June 6.
- Buck Mix Productions, Inc., New York, N. Y. Motion-picture films. No. 161,754; Nov. 21.
- Buckeye Brass and Manufacturing Company, The, Cleveland, Ohio. Bearings and bushings. No. 157,016; July 25.
- Buckeye Cotton Oil Company, The, Cincinnati, Ohio. Poultry feed. No. 159,293; Sept. 26.
- Buckeye Iron and Brass Works, Dayton, Ohio. Oil-mill machinery. No. 156,637; July 11.
- Buckner Process Company, Worcester, Mass. Textile belting. No. 159,823; Oct. 10.
- Bud Hat Company Inc., New York, N. Y. Ladies' hats. Nos. 155,630-1; June 6.
- Buehrle, Albert H., Co., Youngstown, Ohio. Scratch feed, chick feed, growing feed, etc. No. 151,021; Jan. 10.
- Buescher Band Instrument Co., Elkhart, Ind. Saxophones. No. 154,891; May 16.
- Buettell Brothers Company, Dubuque, Iowa. Fireworks. No. 156,847; July 18.
- Buettell Brothers Company, Dubuque, Iowa. Baseballs, baseball bats and gloves, and footballs. No. 157,467; Aug. 8.
- Buettell Brothers Company, Dubuque, Iowa. Certain articles of stationery. No. 157,468; Aug. 8.
- Buettner, T., & Co., Chicago, Ill. Threads, yarns, and cottons for embroidering and crocheting. No. 162,630; Dec. 19.
- Buffalo Forge Company, Buffalo, N. Y. Heating and ventilating systems and parts thereof, etc. No. 152,696; Mar. 7.
- Buffalo Forge Company, Buffalo, N. Y. Air and gas filters, liquid filters, filter presses. No. 153,672; Mar. 28.
- Buffalo Lens Mfg. Co., Inc., Buffalo, N. Y. Ophthalmic lenses. No. 162,693; Dec. 26.
- Buffalo Optical Company, Inc., Buffalo, N. Y. Glass paperweights shaped to form optical lenses. No. 159,294; Sept. 26.
- Buffalo Specialty Co., Buffalo, N. Y. Antiseptics. No. 155,632; June 6.
- Buhner, Ferdinand F., doing business as The Buhner Fertilizer Company, Seymour, Ind. Digester tankage used as a food for hogs and animals. No. 160,143; Oct. 17.
- Buhner Fertilizer Company, The. (See Buhner, Ferdinand F.)
- Buhr & Smith, Cincinnati, Ohio. Chocolate-covered candies. No. 157,017; July 25.
- Built-Well Mfg. Co., Chicago, Ill. Wood toilet seats and wood toilet tanks. No. 160,087; Oct. 10.
- Buisson, Albert, Paris, France. Sedative antispasmodic, analgesic, and hypnotic. No. 161,755; Nov. 21.
- Bukowski, Emil, Whitestone, N. Y. Blood salt nutritive. No. 153,674; Mar. 28.
- Bull Dog Lock Washer Co., The, Baltimore, Md. Lock washers. No. 157,469; Aug. 8.
- Bullard Machine Tool Company, The, Bridgeport, Conn. Metal-working-machine tools. No. 153,675; Mar. 28.
- Bullinger, H. L., doing business as The Piano Exchange, Los Angeles, Calif. Phonographs. No. 158,183; Aug. 29.
- Bullock, Ernest W., Grand Rapids, Mich. Healing lotion. No. 153,983; Apr. 4.
- Bulubassiss, George J., New York, N. Y. Olive oil. No. 159,295; Sept. 26.
- Bunch, Edward T., Philadelphia, Pa. Salted peanuts, peanut butter and sandwiches, chocolate bars. No. 154,779; May 9.
- Bunn, John W., & Co., Springfield, Ill. Chocolate candy, a cream-centered peanut cluster dipped in chocolate. No. 161,921; Nov. 28.
- Bunny Coffee Company, The. (See Haase, Ernest.)
- Bunny Products Company, Port Huron, Mich. Cleansing composition for shoes, gloves, etc. No. 153,131; Mar. 14.

Alphabetical list of registrants of trade-marks—Continued.

- Bunte Brothers, Chicago, Ill. Candy. No. 159,296; Sept. 26.
 Buote Brothers, Chicago, Ill. Confectionery—namely, chocolate. No. 161,922; Nov. 28.
 Bunte Brothers, Chicago, Ill. Confectionery—namely, candy kisses. No. 161,923; Nov. 28.
 Bunte Brothers, Chicago, Ill. Candy bars. No. 162,206; Dec. 12.
 Bunting Publications, Inc., The, Wankegan, Ill. Monthly publication. Nos. 158,624-6; Sept. 12.
 Buob and Scheu, Cincinnati, Ohio. Automobile tops and curtains. No. 162,694; Dec. 26.
 Buonocore, C., & Son, New York, N. Y. Olive oil. No. 154,434; Apr. 11.
 Buonocore, C., & Son, New York, N. Y. Olive oil. No. 156,638; July 11.
 Burberrys Limited, London, England. Cloths of wool, worsted, and hair in the piece. No. 161,427; Nov. 14.
 Burgess Battery Company, Madison, Wis. Electric batteries. No. 162,952; Dec. 26.
 Burgess-Norton Mfg. Co., Geneva, Ill. Automobile and engine parts and accessories—namely, piston pins, ball bearings, etc. No. 155,936; June 13.
 Burgoon, Charles W., Bowling Green, Ohio. Certain medicinal preparations. No. 150,270; Jan. 3.
 Burham Brick, Lime and Cement Company, The, Burham and London, England, assignor to The Associated Cement Manufacturing Limited. Cement. No. 20,950; renewed Apr. 5, 1922.
 Burhans, Robert, jr., Los Angeles, Calif. Insulating powder used in building construction, etc. No. 160,144; Oct. 17.
 Burke Electric Company, Erie, Pa. Electric generators, electric motors, welders, transformers and parts for such electric apparatus. No. 153,919; Mar. 28.
 Burke, Frank G., New York, N. Y. Toilet soaps. No. 157,540; Aug. 8.
 Burke, Frank G., New York, N. Y. Toilet soaps. No. 162,479; Dec. 19.
 Burlingame Manufacturing Company. (See Burlingame, Roderick S.)
 Burlingame, Roderick S., trading as Burlingame Manufacturing Company, Syracuse, N. Y. Clothes-washing machine. No. 156,639; July 11.
 Burlington Blanket Company, Burlington, Wis. Horse blankets or covers. No. 21,249; renewed June 7, 1922.
 Burlington Overall Manufacturing Company, Kansas City, Mo. Overalls, work jackets, work shirts, work trousers. No. 161,353; Nov. 7.
 Burnett, A. E., Fort Worth, Tex. Medicinal preparation for treating piles. No. 156,193; June 20.
 Burnett, Homer D., Shinnston, W. Va. Corn salve. No. 152,128; Feb. 21.
 Burnett's Incorporated, Newark, N. J. Tonic bird food. No. 162,695; Dec. 26.
 Burnham, E. (See Burnham, Mary.)
 Burnham, E., Inc., Chicago, Ill. Face powder. No. 157,312; Aug. 1.
 Burnham, E., Inc., Chicago, Ill. Liquid face powder. No. 159,668; Oct. 3.
 Burnham, E., Inc., Chicago, Ill. Preparation for crow's feet. No. 159,669; Oct. 3.
 Burnham, E., Inc., Chicago, Ill. Brilliantine. No. 159,670; Oct. 3.
 Burnham, E., Inc., Chicago, Ill. Hot preparation used in oil scalp treatments. No. 159,671; Oct. 3.
 Burnham, E., Inc., Chicago, Ill. Facial cream. No. 159,672; Oct. 3.
 Burnham, E., Inc., Chicago, Ill. Talcum powder. No. 159,824; Oct. 10.
 Burnham, E., Inc., Chicago, Ill. Deodorant. No. 159,825; Oct. 10.
 Burnham, E., Inc., Chicago, Ill. Hair remover. No. 159,826; Oct. 10.
 Burnham, E., Inc., Chicago, Ill. Hair tonic relieving excessive oil. No. 159,827; Oct. 10.
 Burnham, E., Inc., Chicago, Ill. Shampoo. No. 159,828; Oct. 10.
 Burnham, E., Inc., Chicago, Ill. Preparation for chapped hands. No. 159,829; Oct. 10.
 Burnham, E., Inc., Chicago, Ill. Face powder. No. 159,830; Oct. 10.
 Burnham, E., Inc., Chicago, Ill. Brilliantine. No. 161,086; Nov. 7.
 Burnham, E., Inc., Chicago, Ill. Facial cream. No. 161,688; Nov. 14.
 Burnham, E., Inc., Chicago, Ill. Tinting nail polish. No. 161,689; Nov. 14.
 Burnham, Edward, Chicago, Ill. Perfume, toilet water, talcum powder. No. 154,235; Apr. 11.
 Burnham, Mary, trading as E. Burnham, Chicago, Ill. Hair restorer. No. 158,197; Aug. 29.
 Burns, Louis G., Seattle, Wash. Candy. No. 154,506; Apr. 18.
 Burns Pattern & Machine Company, Detroit, Mich. Aluminum teakettles, skillets, stew kettles, meat roasters, coffee and tea pots, and frying pans. No. 155,210; May 23.
 Burns-Pollock Electric Manufacturing Company, Indiana Harbor, Ind. Phonographs and phonograph records. No. 152,697; Mar. 7.
 Burns Syrup Company, Macon, Ga. Cane and corn sirups mixed for food purposes. No. 156,848; July 18.
 Burkhastine and Nachman, New York, N. Y. Crochet cottons and embroidery cotton. No. 151,692; Feb. 14.
 Burkhastine and Nachman, New York, N. Y. Knitted underwear and hosiery. No. 155,937; June 13.
 Burpee, W. Atlee, Co., Philadelphia, Pa. Vegetable, flower, and field seeds, bulbs, roots, and plants. No. 160,145; Oct. 17.
 Burr, George H., et al., trustees and their successors. (See Florence Manufacturing Company.)
 Burrell, Emma A., Pickens, Miss. Hair tonic. No. 151,293; Jan. 24.
 Burrowes, E. T., Company, The, Portland, Me. Short ladder of the type known as stepladder. No. 159,831; Oct. 10.
 Burrows, Eastman A., Chicago, Ill. Display and dispensing counter for stores. No. 151,693; Feb. 14.
 Burrows, Eastman A., Chicago, Ill. Refrigerating apparatus, artificial-ice machinery, including freezing tanks. No. 156,194; June 20.
 Burrows, Eastman A., Chicago, Ill. Refrigerating apparatus. No. 159,297; Sept. 26.
 Burson Knitting Company, Rockford, Ill. Knit goods—namely, hosiery. No. 151,694; Feb. 14.
 Burson Knitting Company, Rockford, Ill. Hosiery. No. 155,142; May 16.
 Burson Knitting Company, Rockford, Ill. Hosiery. No. 157,018; July 25.
 Burt Machine Company, Incorporated, Baltimore, Md. Adhesive used in applying labels. No. 159,610; Sept. 26.
 Burt Olney Canning Company, The, Oneida, N. Y. Condensed and evaporated milk. No. 157,019; July 25.
 Burton Bros. & Co., New York, N. Y. Cotton piece goods. No. 150,758; Jan. 10.
 Burton Bros. & Co., New York, N. Y. Petticoats. No. 155,938; June 13.
 Burton Bros. & Co., New York, N. Y. Cotton piece goods. No. 159,673; Oct. 3.
 Burton Bros. & Co., New York, N. Y. Cotton shirting in the piece. No. 161,428; Nov. 14.
 Burton Bros. & Co., New York, N. Y. Cotton piece goods. No. 161,865; Nov. 21.
 Burton-Dixie Corporation, Chicago, Ill. Mattresses, cushions, pads, beds, etc. No. 158,908; Sept. 19.
 Burton-Dixie Corporation, Chicago, Ill. Comforters. No. 159,674; Oct. 3.
 Busbee, T. O., Chattanooga, Tenn. Coal. No. 155,939; June 13.
 Butcher, W. & S., Limited, Sheffield, England. Razors, scissors, knives, files, etc. No. 151,439; Feb. 7.
 Bu-Ti-Maid Petticoat & Pettipants Co., New York, N. Y. Ladies' undergarments. No. 150,271; Jan. 3.
 Butler-Diestelkamp-Stock Chemical Co., St. Louis, Mo. Salve for boils, bruises, chafings, and irritations, etc. No. 150,272; Jan. 3.
 Butler, Fergus A., New York, N. Y. Shoes of leather, rubber, fabric, and combinations thereof. No. 157,020; July 25.
 Butler, J. W., Paper Company, Chicago, Ill. Bond paper. No. 155,569; May 30.
 Butler, J. W., Paper Company, Chicago, Ill. Bond paper for printing, lithographing, pen and ink, etc. No. 156,796; July 11.
 Butler, J. W., Paper Company, Chicago, Ill. Cover paper. No. 157,882; Aug. 22.
 Butler, J. W., Paper Company, Chicago, Ill. Printing, writing, book, and cover paper. Nos. 162,002-4; Nov. 28.
 Butler, J. W., Company, Chicago, Ill. Bond paper. No. 162,953; Dec. 26.
 Butler, James, Grocery Company. (See Butler, James, assignor.)
 Butler, James, New York, N. Y., assignor to James Butler Grocery Company. Oats, wheat, and buckwheat. No. 21,030; renewed Apr. 26, 1922.
 Butler, James, New York, N. Y., assignor to James Butler Grocery Company. Tomato catsup. No. 21,258; renewed June 7, 1922.
 Butler, James, New York, N. Y., assignor to James Butler Grocery Company. Flour. No. 21,344; renewed June 21, 1922.
 Butler, Marie A., New York, N. Y. Powder puffs. No. 154,892; May 16.
 Butler Paper Company, Chicago, Ill. Bristol board. No. 156,504; June 27.
 Butler, Ralph C., Elaine, Ark. Hair dressing. No. 156,195; June 20.
 Butler & Cosgrave, San Angelo, Tex. Laxative aspirin tablets for headaches, colds, la grippe, etc. No. 151,440; Feb. 7.
 Butterfield, Fred, & Co., Inc., New York, N. Y. Cotton piece goods. No. 156,196; June 20.
 Butterick Publishing Company, The, New York, N. Y. Monthly periodical. No. 153,909; Sept. 19.
 Butterick Publishing Company, The, New York, N. Y. Monthly periodical. No. 162,207; Dec. 12.
 Buttermilk Sales Co., Chicago, Ill. Dried buttermilk. No. 152,365; Feb. 28.
 Button & Sierad, New York, N. Y. Containers for perfumes. No. 152,698; Mar. 7.
 Buxton, Incorporated, Springfield, Mass. Key cases. No. 153,132; Mar. 14.

Alphabetical list of registrants of trade-marks—Continued.

- Buzinski, John, Grand Rapids, Mich. Salve for wounds and sores. No. 150,273; Jan. 3.
- Buzz Syrup Co., Inc., Reading, Pa. Maltless-beverage sirups for soda fountains. No. 158,395; Sept. 5.
- Buzza Company, The, Minneapolis, Minn. Monthly publication. No. 158,910; Sept. 19.
- Byington, Robert J., San Francisco, Calif. Electric lighting fixtures, sadirons, and batteries. No. 151,441; Feb. 7.
- Byles, Alfred R., Myra, Tex. Hair tonic. No. 157,883; Aug. 22.
- Byrd, Clement, Smithfield, N. C. Certain medicinal preparations. No. 154,236; Apr. 11.
- Byrnes, Eugene, New York, N. Y. Boys' fabric and leather shoes. No. 151,696; Feb. 14.
- Byrnes, Eugene, New York, N. Y. Certain articles of clothing. No. 156,849; July 18.
- Byron Weston Company, Dalton, Mass. Writing paper. No. 159,298; Sept. 26.
- C. B. C. Film Sales Corporation, New York, N. Y. Motion pictures. No. 154,239; Apr. 11.
- Cabinets, Kitchen. McDougall Company. No. 151,867; Feb. 14.
- Cable, George W., Marysville, Calif. Cleaner and polish for automobile bodies. No. 151,318; Jan. 31.
- Cable-Nelson Piano Company, Chicago, Ill. Pianos and player pianos. No. 161,866; Nov. 21.
- Cadet Knitting Company, Philadelphia, Pa. Hosiery. Nos. 151,093-4; Jan. 24.
- Cadet Knitting Company, Philadelphia, Pa. Sweaters and underwear of knitted fabric. No. 155,310; May 23.
- Cadillac Oil Company, Inc., New York, N. Y. Lubricating oils and greases. No. 159,172; Sept. 19.
- Cadillac Phonograph Corporation, Chicago, Ill. Phonographs and tone arms, sound boxes, horns, and amplifiers. No. 161,088; Nov. 7.
- Cadillac Produce Company, Cadillac, Mich. Creamery butter. No. 159,832; Oct. 10.
- Cadillac Washing Machine Co., Chicago, Ill. Electrically-operated textile-fabric-washing machines. No. 158,396; Sept. 5.
- Cafco Chemical Company, Inc., The, Pittsburgh, Pa. Soaps and soap powders. No. 159,911; Sept. 19.
- Cahill Shoe Company, The, Cincinnati, Ohio. Men's, women's, and children's boots, shoes, and slippers. No. 161,429; Nov. 14.
- Calco Chemical Company, The, Boundbrook, N. J. Medicinal preparation for use as external disinfectant, mouth wash, etc. No. 150,274; Jan. 3.
- Calco Chemical Company, The, Boundbrook, N. J. Certain pharmaceutical preparation. No. 152,129; Feb. 21.
- Caldwell Electric Corporation, Champaign, Ill. Electric-lighting fixtures, electric table and floor lamps, electroliters. No. 152,699; Mar. 7.
- Caldwell, J. C., Pittsburgh, Pa. Sheet-rubber patches. No. 162,425; Dec. 12.
- Calenduline Company of California, Baltimore, Md. Mouth wash. No. 156,197; June 20.
- California Almond Growers Exchange, San Francisco, Calif. Almonds and almond meats, paste, blanched almonds, etc. Nos. 159,800-1; Sept. 26.
- California Bottling Co., Brooklyn, N. Y. Beverages sold as soft drinks and sirups for making same. No. 160,146; Oct. 17.
- California Casing Co., San Francisco, Calif. Pork-sausage casings. No. 155,940; June 13.
- California Central Creameries, San Francisco, Calif. Product used in preparing spraying mixtures for use on fruit trees. No. 159,833; Oct. 10.
- California Citigraph Publishing Company, Los Angeles, Calif. Monthly magazine. No. 150,275; Jan. 3.
- California Conserving Co., San Francisco, Calif. Foods and ingredients of foods. No. 152,700; Mar. 7.
- California Co-Operative Canneries, San Jose, Calif. Canned fruits. No. 153,920; Mar. 28.
- California Co-Operative Canneries, San Jose, Calif. Canned fruits. Nos. 155,941-2; June 13.
- California Co-Operative Canneries, San Francisco, Calif. Canned fruits and vegetables. Nos. 160,764-6; Oct. 24.
- California Corrugated Culvert Co., Oakland, Calif. Metal grain bins, watering tanks and troughs, etc. No. 153,421; Mar. 21.
- California Cotton Mills Company, Oakland, Calif. White cotton piece goods. No. 150,759; Jan. 10.
- California Cotton Mills Company, Oakland, Calif. Twines of all kinds. No. 151,319; Jan. 31.
- California Cotton Mills Company, Oakland, Calif. Ropes, cord, twine. No. 151,320; Jan. 31.
- California Cotton Mills Company, Oakland, Calif. Cotton mops. No. 151,697; Feb. 14.
- California Cotton Mills Company, Oakland, Calif. Burlap. No. 153,422; Mar. 21.
- California Cotton Mills Company, Oakland, Calif. Certain towels, table linen, comforters, etc. No. 153,676; Mar. 28.
- California Cotton Mills Company, Oakland, Calif. Textile bath towels. No. 153,921; Mar. 28.
- California Cotton Oil Company, Los Angeles, Calif. Cottonseed meal for use as a fertilizer. No. 158,912; Sept. 19.
- California Flg-Nut Company, Orange, Calif. Dietetic health food. No. 152,310; Feb. 21.
- California Fruit Beverages Co., Los Angeles, Calif. Apple cider, grape juice, and fruit sirups for making soft drinks. No. 157,884; Aug. 22.
- California Grape Products Co., Ukiah, Calif. Nonalcoholic beverage and sirup for making same. No. 150,276; Jan. 3.
- California Growers Association, Inc., Los Angeles, Calif. Canned fruits and vegetables. No. 151,442; Feb. 7.
- California Growers Association, Inc., Los Angeles, Calif. Canned and dried fruits, olive oil, honey, etc. No. 151,698; Feb. 14.
- California Growers Association, Inc., Los Angeles, Calif. Canned fruits, except olives and canned vegetables. No. 151,699; Feb. 14.
- California Packing Corporation, San Francisco, Calif. Dried fruits, raisins, and seedless raisins. No. 152,701; Mar. 7.
- California Packing Corporation, San Francisco, Calif. Grape, pineapple, and loganberry juices. No. 154,893; May 16.
- California Packing Corporation, San Francisco, Calif. Canned peaches. No. 158,627; Sept. 12.
- California Paint Company, Oakland, Calif. Certain paints, varnishes, and colors. No. 150,277; Jan. 3.
- California Peanut Company, Oakland, Calif. Peanut butter. No. 162,480; Dec. 19.
- California Prune and Apricot Growers, Inc., San Jose, Calif. Dried and canned fruits, fruit butter, and jam. No. 151,700; Feb. 14.
- Calisher, Joseph H., New York, N. Y. Certain toilet preparations. No. 157,885; Aug. 22.
- Callaway, William E., Jersey City, N. J. Polish for certain articles. No. 154,192; Apr. 4.
- Callow, Edwin, Washington, D. C. Humorous newspaper articles and circulars issued from time to time. No. 157,650; Aug. 15.
- Cal-S-Foe Corp., Brooklyn, N. Y. Callous remover. No. 157,470; Aug. 8.
- Calton Manufacturing Company, Spartanburg, S. C. Hosiery. No. 158,913; Sept. 19.
- Calumet Baking Powder Company, Chicago, Ill. Baking powder. No. 21,792; renewed Sept. 27, 1922.
- Calyork Manufacturing Co., The, Los Angeles, Calif. Hats for men, women, and children. No. 155,633; June 6.
- Cambridge Rubber Company. (See MacPherson, Warren.)
- Cambridge Rubber Company, Cambridge, Mass. Raincoats. No. 161,430; Nov. 14.
- Camden Anchor-Rockland Machine Co., Camden, Me. Marine and stationary internal-combustion motors and carburetors. No. 159,302; Sept. 26.
- Cameo Record Corporation, New York, N. Y. Phonograph records. No. 161,089; Nov. 7.
- Cameron, Will J., Chicago, Ill. Devices and apparatus for ascertaining the physical condition of the nerves. No. 162,208; Dec. 12.
- Cameron, Will J., doing business as Cameron's Surgical Specialty Co., Chicago, Ill. Lamps for use by physicians and surgeons in making examinations, etc. No. 162,696; Dec. 26.
- Cameron, Wm., & Co., Inc., Waco, Tex. Ironing boards. No. 155,211; May 23.
- Cameron, Wm., & Co., Inc., Waco, Tex. Screen wire, door stops, transom lifts, knobs, drawer pulls, etc. No. 156,198; June 20.
- Cameron, Wm., & Co., Inc., Waco, Tex. Sash, doors, blinds, etc. No. 160,405; Oct. 24.
- Cameron's Surgical Specialty Co. (See Cameron, Will J.)
- Camp, Dr. Charles D., Company, Chicago, Ill. Emulsifier of essential oils. No. 150,279; Jan. 3.
- Campbell Baking Company, Kansas City, Mo. Cake. No. 159,303; Sept. 26.
- Campbell, Chester I., Boston, Mass. Magazine published monthly. No. 162,209; Dec. 12.
- Campbell, John, & Co., New York, N. Y. Color-stripping and dye-removing compound. No. 161,090; Nov. 7.
- Campbell Manufacturing Co., Oakland, Calif. Plum and other fruit puddings, chocolate, vanilla, and other flavored puddings. No. 162,036; Dec. 5.
- Campion, John P., Tulsa, Okla. Lubricating oils and petroleum lubricating greases, gasoline, and kerosene. No. 152,702; Mar. 7.
- Canales, Juan, Findlay, Ohio. Salve. No. 153,677; Mar. 28.
- Candela, Domenico, New York, N. Y. Olive oil. No. 162,037; Dec. 5.
- Candy Products Corporation, Chicago, Ill. Hard candy. No. 155,881; June 6.
- Candygram Headquarters, Chicago, Ill. Candy and bonbons. No. 154,507; Apr. 18.
- Cane, Mark P., Los Angeles, Calif. Certain named paints, varnishes, and shellacs. No. 158,914; Sept. 19.
- Cangelosi, Joseph, New Orleans, La. Sandruff remedy. No. 155,634; June 6.
- Canson & Montgolfier. (See Boulin, Camille H.)
- Canter, Henry, Homestead, Pa. Tonic. No. 157,471; Aug. 8.
- Cantol Wax Company, San Antonio, Tex. Waterproofing, preserving, and filling compound in the nature of a belt dressing. No. 155,390; May 30.
- Canton-Blackstone Company, Canton, Ohio. Rubber tires, rubber-tire casings, and inner tubes. No. 155,311; May 23.
- Cantrell & Cochrane, Limited, Dublin, Ireland. Ginger ale, ginger beer, sarsaparilla, and bottled soda water. No. 150,761; Jan. 10.

Alphabetical list of registrants of trade-marks—Continued.

- Cantrell & Cochrane, Limited, Dublin, Ireland. Ginger ale. No. 153,984; Apr. 4.
- Cape County Milling Company, Jackson, Mo. Self-rising flour. No. 162,697; Dec. 26.
- Capell Salt Company, Salt Lake City, Utah. Salt (sodium chloride). No. 158,153; Aug. 22.
- Capen, George H., Canton Junction, Mass. Cedar-oil polish. No. 154,894; May 16.
- Capen, George H., Canton Junction, Mass. Mucilage and library paste. No. 154,895; May 16.
- Capen, George H., Canton Junction, Mass. Hat dye. No. 156,199; June 20.
- Capen, George H., Canton Junction, Mass. Lubricating oils. No. 158,628; Sept. 12.
- Capeverdean Trading Company, East Wareham, Mass. Roasted and ground cereals for use as a breakfast food. No. 162,698; Dec. 26.
- Capewell Horse Nail Company The, Hartford, Conn. Horseshoe nails. Nos. 157,472-3; Aug. 8.
- Capital City Products Company, The, Columbus, Ohio. Butter. No. 158,397; Sept. 5.
- Capitol Lunch System, Brooklyn, N. Y. Food and food products cooked and prepared ready to be eaten. No. 153,423; Mar. 21.
- Capitol Paint & Varnish Company, Washington, Pa., and Canton, Ohio. Flat wall paint. No. 160,147; Oct. 17.
- Caporale, Severino, doing business as The Balbia Chemical Mfg. Co., Philadelphia, Pa. Hair tonic. No. 157,886; Aug. 22.
- Capsheaf Bread Co., St. Louis, Mo. Wheat bread. No. 159,305; Sept. 26.
- Capudine Chemical Company, Raleigh, N. C. Salve or ointment for croup, colds, congestion, and inflammation. No. 155,391; May 30.
- Caradine Harvest Hat Company, St. Louis, Mo. Trade publication issued weekly for circulation among salesmen and buyers. No. 162,210; Dec. 12.
- Caravel Company, Inc., New York, N. Y. Certain articles of clothing. No. 154,896; May 16.
- Caravel Company, Inc., New York, N. Y. Chemicals, medicines, and pharmaceutical preparations. No. 155,392; May 30.
- Caravel Company, New York, N. Y. Dyestuffs and beeswax. No. 155,943; June 13.
- Caravel Company, Inc., New York, N. Y. Certain sporting goods. No. 159,834; Oct. 10.
- Caravel Company, Inc., New York, N. Y. Threads and yarns. No. 159,835; Oct. 10.
- Carbon Chase Co., Long Island City, N. Y. Chemical carbon remover. No. 161,091; Nov. 7.
- Carbone, Mario, New York, N. Y. Nonalcoholic, maltless beverages, and sirups for making same. No. 155,393; May 30.
- Carbonell y Ca. Córdoba, Spain. Olive oil. No. 154,508; Apr. 18.
- Carborundum Company, The, Niagara Falls, N. Y. Refractory brick, cement, tile, muffles, and shaped refractories. No. 159,675; Oct. 3.
- Carbrox Company Inc., New Orleans, La. Decolorizing and activated carbons. No. 158,398; Sept. 5.
- Cardinal Silk Company, Scranton, Pa. Silk piece goods. No. 159,676; Oct. 3.
- Cardinet Candy Company, Oakland, Calif. Chocolate-coated candy. No. 151,701; Feb. 14.
- Card-Martin Company, Jellico, Tenn. Nonalcoholic, non-cereal, maltless beverages sold as soft drinks and sirups for making same. No. 156,505; June 27.
- Card-Martin Co., Jellico, Tenn. Beverages sold as soft drinks and sirups for making the same. No. 158,336; Aug. 29.
- Carey, J. P., & Co., Inc., New York, N. Y. Certain articles of clothing. No. 157,021; July 25.
- Carey, Philip, Manufacturing Company, The, Lockland, Ohio. Certain chemical preparations. No. 150,520; Jan. 3.
- Cargill, Charles S., Gary, Ind. Furniture polish. No. 153,985; Apr. 4.
- Carleton, Raymond G., Arcadia, Fla. Fresh citrus fruits. No. 154,509; Apr. 18.
- Carley, Leonard R., Watertown, Conn. Leather, canvas, and rubber shoes and shoes formed of fabric material. No. 162,038; Dec. 5.
- Carley, Leonard R., Watertown, Conn. Cans, containers, and cartons. No. 162,211; Dec. 12.
- Carlin, Andrew F., Brighton, Mass. Healing salve. No. 157,313; Aug. 1.
- Carlisle, Bert, Santa Ana, Calif. Toy flying machines. No. 160,406; Oct. 24.
- Carlisle Garment Co., The, Carlisle, Pa. Women's and children's dresses. No. 158,399; Sept. 5.
- Carlsbad Vegetable Growers Association, Carlsbad, Calif. Fresh vegetables. No. 159,306; Sept. 26.
- Carlson, C. G., Ice Cream Company, The, Denver, Colo. Ice cream. No. 157,651; Aug. 15.
- Carlson, Frank, Minneapolis, Minn. Preparation for the throat and lungs. No. 157,474; Aug. 8.
- Carlton Co., The, New York, N. Y. Soaps. No. 161,924; Nov. 28.
- Carmela Nieto de Herrera e Hijos, Habana, Cuba, and New York, N. Y. Certain toilet preparations. No. 157,887; Aug. 22.
- Carnahan Manufacturing Company. (See Middleworth, James O.)
- Carnegie Steel Company, Pittsburgh, Pa. Rolled-metal rails, bars, plates, etc. No. 156,200; June 20.
- Carney Cement Company, Mankato, Minn. Cement for construction purposes. No. 159,677; Oct. 3.
- Caro & Company, Inc., New York, N. Y. Ladies' kimonos, house dresses, and aprons, men's, women's, and children's bath robes. No. 157,022; July 25.
- Carpenter, Geo. B., & Co., Chicago, Ill. Cotton waste. Nos. 159,836-42; Oct. 10.
- Carpenter, Geo. B., & Co., Chicago, Ill. Cotton waste. No. 160,407; Oct. 24.
- Carpenter, Herbert L., New York, N. Y. Shipping drums and containers used for food products, chemicals, etc. No. 150,762; Jan. 10.
- Carpenter-Morton Company, Boston, Mass. Liquid paints, varnishes, etc. No. 150,278; Jan. 3.
- Carpenter-Morton Company, Boston, Mass. Bleaching compounds. No. 161,092; Nov. 7.
- Carpenter Steel Company, The, Reading, Pa. Tool steels in bars, etc. Nos. 151,702-3; Feb. 14.
- Carpenter Steel Company, The, Reading, Pa. Alloy steels in bars, billets, and shapes. No. 154,897; May 16.
- Carpenter Steel Company, The, Reading, Pa. Tool steels in bars, billets, and shapes. No. 157,023; July 25.
- Carpenter Steel Company, New York, N. Y., assignor to The Carpenter Steel Company. Iron, steel, and manufactures thereof. No. 19,049; renewed Feb. 17, 1921.
- Carr Fastener Company, Cambridge, Mass. Certain lubricating devices and parts. No. 153,678; Mar. 28.
- Carr, John R., Philadelphia, Pa. Certain medicinal and pharmaceutical preparations for use as a treatment for indigestion. No. 158,400; Sept. 5.
- Carrib Mfg. Corporation, Rochester, N. Y. Carbon paper and typewriter ribbons. No. 151,704; Feb. 14.
- Carricite Company, The, Chicago, Ill. Chemical substance in the nature of a flux. No. 157,888; Aug. 22.
- Carroll Engineering Co., The, Dayton, Ohio. Special metal-working machinery and production tools. No. 154,898; May 16.
- Carroll, William B., Chicago, Ill. Finishes for leathers. No. 153,986; Apr. 4.
- Carrosserie Van Den Plas, Société Anonyme, Brussels, Belgium. Motor-car bodies, parts, and accessories. No. 160,440; Oct. 24.
- Carry-Ette Bag Company, St. Paul, Minn. Shopping bags and paper bags. No. 150,280; Jan. 3.
- Carse & Ohlweiler Co., Rock Island, Ill. Maltless soft drinks. No. 153,133; Mar. 14.
- Carson, Madge S., Greenwich, Conn. Scarfs for personal wear. No. 150,763; Jan. 10.
- Carson, Pirie, Scott & Co., assignor to Carson, Pirie, Scott & Company, Chicago, Ill. Dress and negligée shirts. No. 151,294; Jan. 24.
- Carson, Pirie, Scott & Company. (See Carson, Pirie, Scott & Co., assignors.)
- Carson, Pirie, Scott & Co., assignors to Carson, Pirie, Scott & Company, Chicago, Ill. Cambrics, raincoats, and muslins in the piece. No. 154,237; Apr. 11.
- Carson Pirie Scott & Co., Chicago, Ill. Men's woven athletic underwear. No. 159,173; Sept. 19.
- Carson Pirie Scott & Co., Chicago, Ill. Cotton bats. No. 159,843; Oct. 10.
- Carson Pirie Scott & Co., Chicago, Ill. Crochet cotton. No. 162,631; Dec. 19.
- Carter, A. H., Limited, Bristol, England. Artificial fertilizers. No. 150,281; Jan. 3.
- Carter Dry Goods Co., Louisville, Ky. Cotton piece goods. No. 157,889; Aug. 22.
- Carter Dry Goods Co., Louisville, Ky. Sheetting, sheets, and pillowcases. No. 159,915; Sept. 19.
- Carter, George R., Company, The, Connersville, Ind. Molding for upholstering. No. 151,705; Feb. 14.
- Carter, J. W., Chicago Co., Chicago, Ill. Boots, shoes, and slippers. No. 155,944; June 13.
- Carter, J. W., & Co., Nashville, Tenn. Boots and shoes made wholly or in part of leather. No. 159,174; Sept. 19.
- Carter, J. W., & Co., Nashville, Tenn. Boots and shoes made wholly or in part of leather. Nos. 161,093-4; Nov. 7.
- Carter Motor Accessories, Inc., Buffalo, N. Y. Oil gauges. No. 159,307; Sept. 26.
- Carter, Ralph B., Company, New York, N. Y. Diaphragm pumps. No. 158,199; Aug. 29.
- Carter, Thomas, & Sons, Inc., New York, N. Y. Handkerchiefs. No. 161,432; Nov. 14.
- Carter, William, Company, The, Needham Heights, Mass. Certain articles of clothing. No. 153,906; Mar. 28.
- Cartersville Mills, Inc., The, Cartersville, Ga. Boys' union suits of knitted fabric. No. 151,095; Jan. 24.
- Cartier, Inc., New York, N. Y. Watches and clocks. No. 151,443; Feb. 7.
- Cartier, Inc., New York, N. Y. Cigarette and cigar cases and snuff boxes. No. 152,703; Mar. 7.
- Cartier, Inc., New York, N. Y. Opera glasses and lorgnettes. No. 162,699; Dec. 26.
- Cartoonigrams, Inc., St. Paul, Minn. Moving-picture films. No. 161,756; Nov. 21.
- Carty Candy Co., Philadelphia, Pa. Candy. No. 151,706; Feb. 14.
- Carvel & Buquor, El Paso, Tex. Automobiles. No. 160,408; Oct. 24.

- Cary Maple Sugar Company, St. Johnsbury, Vt. Maple sugar in blocks. No. 154,435; Apr. 11.
- Cary, Ralph S. & Co., Inc., Binghamton, N. Y. Children's clothing. No. 154,510; Apr. 18.
- Case, Mason, Los Angeles, Calif. Root beer. No. 156,201; June 20.
- Casey, Mae, Raleigh, N. C. Vanishing cream. No. 157,805; Aug. 15.
- Cassebeer, H. A., Inc., New York, N. Y. Cleansing fluid for silk, wool, cotton, and other textile fabrics. No. 155,635; June 6.
- Cassity, Minnie L., Manson, Wash. Liniments. No. 154,238; Apr. 11.
- Cassiel, Alexander, Company, Chicago, Ill. Dental cement, alloy, temporary stopping. No. 154,899; May 16.
- Castolene Lubricating Oil Co., San Francisco, Calif. Lubricating oils and greases. No. 162,701; Dec. 26.
- Caswell, William L., Old Orchard, Me. Fondant or base for candy and other like confections. No. 154,780; May 9.
- Catania, Francisco P., Philadelphia, Pa. Preparations used in the treatment of tuberculosis and eyes. No. 150,282; Jan. 3.
- Cathcart, Herbert J., Plainfield, N. J., and New York, N. Y. Cotton, woolen, or silk piece goods. No. 155,143; May 16.
- Catlett, Richard H., Boston, Mass. Hardening compound for concrete surfaces. No. 153,987; Apr. 4.
- Catudal, Anna C., Haverhill, Mass. Candies and chocolate. No. 162,700; Dec. 26.
- Cauffman, Leo, Rochester, N. Y. Cough sirup. No. 152,704; Mar. 7.
- Cauk, I. D., Company, The, Milford, Del. Mixing slabs, mortars and pestles, mercury gauges, and certain mixing flasks and shade guides. No. 153,922; Mar. 28.
- Caulk, L. D., Company, The, Milford, Del. Certain tooth polishes used by dentists. No. 152,052; Feb. 14.
- Caulk, L. D., Company, The, Milford, Del. Certain cleaning and polishing preparations used by dentists. No. 155,636; June 6.
- Caulk, L. D., Company, The, Milford, Del. Certain laboratory and dental apparatus. No. 156,202; June 20.
- Caulk, L. D., Company, The, Milford, Del. Dental supplies and appliances. No. 156,640; July 11.
- Caulk, L. D., Company, The, Milford, Del. Certain chemicals and dental preparations. No. 156,850; July 18.
- Causey, Guy M., The Dalles, Oreg. Beverage sold as soft drink and sirup for making the same. No. 161,925; Nov. 28.
- Cavanagh Manufacturing Co., Chicago, Ill. Preservative for leather and fabric belting. No. 157,652; Aug. 15.
- Cavanaugh, Frederick J., New York, N. Y. Embroidered lace in the piece. No. 161,483; Nov. 14.
- Cavour Cigar Company, New York, N. Y. Cigars and smoking tobacco. No. 157,890; Aug. 22.
- Cayuga Linen & Cotton Mills, Inc., Auburn, N. Y. Twine. Nos. 153,134-5; Mar. 14.
- Cecil Manufacturing Co., New York, N. Y. Silver-plated flat and hollow tableware and silver-plated ware for soda-water use. No. 162,212; Dec. 12.
- Ceol Sawdust Cleanser Company, Wilmington, Calif. Soap paste. No. 159,308; Sept. 26.
- Celery Chewing Gum Co., The. (See Hart, Hubert C.)
- Celery Pepsin Gum Co. (See Hart, Hubert C.)
- Celestial Chemical Company. (See Cogbill, Harvey P.)
- Celite Products Company, Los Angeles, Calif., and New York, N. Y. Material for bleaching and decolorizing. No. 154,240; Apr. 11.
- Celite Products Company, Los Angeles, Calif., and New York, N. Y. Material for separating impurities, etc., from fluids. No. 154,900; May 16.
- Cell-U-Base Corporation, Dover, Del. Cleansing preparations for the teeth. No. 160,843; Oct. 31.
- Cellular Clothing Company, The. (See Haslam, Lewis, assignor.)
- Cellu-Metal Corporation, Rochester, N. Y. Cardboard toy houses and automobiles. No. 158,629; Sept. 12.
- Cement Export Company, Inc., New York, N. Y. Portland cement. No. 153,147; Mar. 14.
- Cement Gun Construction Company, Chicago, Ill. Certain construction material. No. 150,283; Jan. 3.
- Cement Tools Company, Los Angeles, Calif. Cement-working tools. No. 161,690; Nov. 14.
- Centennial Mill Company, Seattle and Spokane, Wash. Wheat flour. No. 152,705; Mar. 7.
- Central Bond & Mortgage Co., Chicago, Ill. Publication issued monthly. No. 152,021; Feb. 14.
- Central Brass & Fixture Company, The, Springfield, Ohio. Automobile accessories. No. 153,136; Mar. 14.
- Central Brass Manufacturing Co., The, Cleveland, Ohio. Drinking fountains for human use. No. 152,571; Feb. 28.
- Central Brass Manufacturing Co., The, Cleveland, Ohio. Cocks and faucets. No. 155,144; May 16.
- Central Cigar Manufacturing Company, New York, N. Y. Cigars. No. 152,706; Mar. 7.
- Central City Chemical Co., Chicago, Ill. Insecticides. No. 155,637; June 6.
- Central Coffee Co. Inc., Brooklyn, N. Y. Coffee. No. 156,851; July 18.
- Central Electric Company, Chicago, Ill. Lighting fixtures. No. 159,844; Oct. 10.
- Central Ohio Paper Company, The, Columbus, Ohio. Cover papers and textile book papers. No. 150,764; Jan. 10.
- Central Ohio Paper Company, The, Columbus, Ohio. Enamelled cover papers and enamelled book papers. No. 150,765; Jan. 10.
- Central Ohio Paper Company, The, Columbus, Ohio. Kraft wrapping papers. No. 150,766; Jan. 10.
- Central Oilgas Stove Company, Northampton and Boston, Mass. Oil and gas stoves. No. 21,250; renewed June 7, 1922.
- Central Paint & Varnish Mfg. Co., Kansas City, Mo. Ready-mixed paints, paste paints, enamel paints, varnishes, and stains. No. 158,401; Sept. 5.
- Central Paper Company, Menasha, Wis. Adding-machine paper. No. 152,366; Feb. 28.
- Central Paper Company, Menasha, Wis. Gummed paper. No. 159,309; Sept. 26.
- Central Scientific Company, Chicago, Ill. Optical disks and accessories therefor. No. 152,572; Feb. 28.
- Central-Specialités Societe Anonyme, Paris, France. Hygienic powder for the toilet and bath, dentifrices, etc. No. 154,901; May 16.
- Central Tractor Company, The, Greenwich, Ohio. Tractors. No. 152,707; Mar. 7.
- Central Union Trust Company of New York. (See Blumenthal, Sidney, & Co., assignor.)
- Central Union Trust Company of New York, trustee. (See Blumenthal, Sidney, & Co., assignor.)
- Central West Coal & Lumber Company, Columbus, Ohio, and Seattle, Wash. Shingles. No. 160,148; Oct. 17.
- Central Wheel Company, Sturgis, Mich. Children's velocipedes. No. 157,475; Aug. 8.
- Century Cork Co., New York, N. Y. Corks. No. 159,845; Oct. 10.
- Century Knitting Mills, New York, N. Y. Knit jackets. No. 157,478; Aug. 8.
- Cereal Products Co., Manitowoc, Wis. Breakfast cereals, malt food, hominy, etc. No. 152,130; Feb. 21.
- Cereal Products Refining Company, San Francisco, Calif. Cereal malt beverage sirup concentrate. No. 150,767; Jan. 10.
- Cerf, Baruch, Milwaukee, Wis., and Chicago, Ill. Certain food products. No. 159,324; Sept. 26.
- Cerrone, F. C., doing business as United States Base Ball Manufacturing Co., Johnstown, N. Y. Baseball. No. 161,926; Nov. 28.
- Cetrulo, John, Arlington, N. J. Hair grower. No. 152,131; Feb. 21.
- Chain Battery Supply Co., Chicago, Ill. Storage battery, storage-battery parts, and battery supplies. No. 155,638; June 6.
- Challenge Cutlery Corporation, The, Bridgeport, Conn. Pocketknives. No. 157,891; Aug. 22.
- Challenger, Edgar O., New York, N. Y. Kansas-hard-wheat clear flour. No. 157,024; July 25.
- Chalmers Chemical Company, Newark, N. J. Paint and varnish removers. No. 158,630; Sept. 12.
- Chalmers Chemical Company, Newark, N. J. Removers for paints and varnishes. No. 162,481; Dec. 19.
- Chalmers, Harry B., New York, N. Y. Candy. No. 156,852; July 18.
- Chalmers Knitting Company, Amsterdam, N. Y. Union suit. No. 157,025; July 25.
- Champion Game Company, Chicago, Ill. Parlor baseball game. No. 151,096; Jan. 24.
- Champion Machinery Co., Joliet, Ill. Machinery for bakeries. No. 156,641; July 11.
- Champion Radio Co., Detroit, Mich. Radio telephone jacks and plugs, and radio bulb sockets. No. 160,844; Oct. 31.
- Champion Spark Plug Company, Toledo, Ohio. Spark plugs and parts thereof. No. 158,402; Sept. 5.
- Champion Tool Company, Meadville, Pa. Farriers' tools. No. 161,434; Nov. 14.
- Champion Tool Company, Meadville, Pa. Farriers' and cobblers' tools. No. 161,435; Nov. 14.
- Chance, Albert B., Centralia, Mo. Anchors for guy ropes and wires. No. 151,377; Jan. 31.
- Chance, Albert B., Centralia, Mo. Piston rings. No. 151,378; Jan. 31.
- Chancey, Jackson B., Lake Butler, Fla. Preparation for treatment of piles, leucorrhoea, burns, eczema, etc. No. 161,095; Nov. 7.
- Chandler, John H., Newnan, Ga. Cigars. No. 154,902; May 16.
- Channel Commercial Co., Los Angeles, Calif. Canned fruits, vegetables, candies, jams, nuts, etc. No. 152,708; Mar. 7.
- Channel Commercial Co., Los Angeles, Calif. Fruits, vegetables, fish, and oysters, dried fruits, candies, etc. No. 159,846; Oct. 10.
- Chanovitz, Abraham, New York, N. Y. Men's silk dress shirts. No. 151,707; Feb. 14.
- Chapelle, Philippe, Paris, France, and New York, N. Y. Medicinal and prophylactic preventive of venereal diseases. No. 161,096; Nov. 7.
- Chapin & Company, Hammond, Ind., and Chicago, Ill. Prepared poultry feed. No. 150,284; Jan. 3.
- Chapple Drug Company, Billings, Mont. Hand lotions. No. 160,767; Oct. 24.
- Charak, Walter S., New York, N. Y. Skin lotion and liniment. No. 153,679; Mar. 28.
- Charles William Stores, Inc., The, Brooklyn, N. Y. Clothes for small boys—namely, wash suits, rompers, blouses, and pants. No. 152,367; Feb. 28.

Alphabetical list of registrants of trade-marks—Continued.

- Charles William Stores Inc., The, Brooklyn, N. Y. Kitchen cabinets. No. 155,870; June 6.
- Charles William Stores Inc., The, Brooklyn, N. Y. Storage batteries. No. 158,403; Sept. 5.
- Charleston Milling Company, Charleston, Mo. Wheat flour. No. 153,424; Mar. 21.
- Charlop Bros. & Co., New York, N. Y. Ladies' coats, suits, and dresses. No. 162,005; Nov. 28.
- Tharphilos, Alexis, Chateleine, Switzerland. Tire valves. No. 152,368; Feb. 28.
- Charter Chocolate Company, Boston, Mass. Candy. Nos. 151,708-9; Feb. 14.
- Chase Chemical Company, Danville, Ill. Preparation for excessive perspiration. No. 152,710; Mar. 7.
- Chase Manufacturing Company. (See Chase, Sidney M.)
- Chase, Sidney M., doing business as Chase Manufacturing Company, Minneapolis, Minn. Skis. No. 157,476; Aug. 8.
- Chase & Anderson, Minneapolis, Minn. Filler for French pastry, topping for ice cream, cake, and sauce. No. 162,039; Dec. 5.
- Chase & Chase, Jacksonville, Fla. Fresh citrus fruits. No. 152,709; Mar. 7.
- Chase & Company Corporation, Boston, Mass., assignor to New England Confectionery Company. Small sugared sticks of candy. No. 20,033; renewed Aug. 18, 1921.
- Chase & Company Corporation, Boston, Mass., assignor to New England Confectionery Company. Pipe candy. No. 20,034; renewed Aug. 18, 1922.
- Chase & Company Corporation, Boston, Mass., assignor to New England Confectionery Company. Pipe candy. No. 20,144; renewed Sept. 15, 1921.
- Chase & Company Corporation, Boston, Mass., assignor to New England Confectionery Company. Small sugared sticks of candy. No. 20,178; renewed Sept. 29, 1921.
- Chason, Daniel H., Elizabeth, N. J. Window antirattlers. No. 156,506; June 27.
- Chastang, Geneva, Birmingham, Ala. Hair growers, hairpressing oils, and perfumes. No. 154,241; Apr. 11.
- Chastern, Inc., New York, N. Y. Pyrophoric igniters. No. 157,026; July 25.
- Chatfield, Frederick H., Cincinnati, Ohio. Package containing two paper towels and a piece of soap. No. 157,653; Aug. 15.
- Chatfield & Woods Company, The, Cincinnati, Ohio. Toilet paper. No. 160,409; Oct. 24.
- Chatham Manufacturing Company, Winston-Salem, N. C. Blankets made of wool and cotton or combination of wool and cotton. No. 150,285; Jan. 3.
- Cheatham Electric Switching Device Co., Louisville, Ky. Electric switching devices. No. 160,088; Oct. 10.
- Cheesman, Clarence V., Jr., Kew Gardens, N. Y. Hair nets. No. 161,436; Nov. 14.
- Chemical Construction Company, Charlotte, N. C. Acid concentrators. No. 150,768; Jan. 10.
- Chemical Foundation, Incorporated, The. (See Färberei Glauchau vormals Otto Seyfert, assignor.)
- Chemical Foundation, Inc., The. (See Farbwerke, vormals Meister, Lucius & Brüning, assignor.)
- Chemical Foundation Incorporated, The. (See Kahlbaum, Johannes, assignor.)
- Chemical Foundation, Inc., The. (See Muller, Edmund, & Mann, assignor.)
- Chemical Foundation, Incorporated, The. (See Norddeutsche Wollkammerei & Kammgarnspinnerei, assignor.)
- Chemical Paper Manufacturing Co., Holyoke, Mass. Cover paper. No. 150,769; Jan. 10.
- Chemical Paper Manufacturing Company, Holyoke, Mass. Check, ledger, envelope, and colored laid. Nos. 152,711-12; Mar. 7.
- Chemical Paper Manufacturing Co., Holyoke, Mass. Manifold light-weight onion-skin paper. No. 152,713; Mar. 7.
- Chemical Products Company, Kent, Wash. Certain chemical preparations. No. 160,845; Oct. 31.
- Chemical Reduction Co., Boston, Mass. Chemical carbon remover. No. 150,286; Jan. 3.
- Chemical Sales Company, Philadelphia, Pa. Chemical compounds sold as jewelers' cleaners, metal cleaners, and electroplaters' cleaners. No. 151,710; Feb. 14.
- Chemical Works Brugg, Limited, Brugg, Switzerland. Non-alcoholic, maltless beverage and sirup for manufacturing same. No. 155,212; May 23.
- Chemicals and By-Products Limited, Watford, England. Photographic developer. No. 155,639; June 6.
- Chemische Fabrik Griesheim-Elektron, Frankfurt-on-the-Main, Germany. Preparations consisting in calcium hypochlorite or containing calcium hypochlorite. No. 157,314; Aug. 1.
- Chemische Fabrik vormals Sandoz, Basel, Switzerland. Antispasmodic and sedative given for intestinal affection. No. 150,287; Jan. 3.
- Chemische Fabrik vormals Sandoz, Basel, Switzerland. Sedative for relieving spasms and colic, etc. Nos. 150,288-9; Jan. 3.
- Chemische Fabrik vormals Sandoz, Basel, Switzerland. Antispasmodic and sedative for intestinal affection. No. 150,290; Jan. 3.
- Chemische Fabrik von Heyden, Aktiengesellschaft, Radebeul, Germany. Bottle caps. No. 160,410; Oct. 24.
- Chemische Fabrik von Heyden, Aktiengesellschaft, Radebeul, Germany. Solutions for parenteral protein therapeutics. No. 161,437; Nov. 14.
- Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile and pile fabrics in the piece. Nos. 156,204-5; June 20.
- Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics in the piece. No. 157,892; Aug. 22.
- Cheney, S., & Son, Manlius, N. Y. Tool sharpeners. No. 161,757; Nov. 21.
- Cheramy, Inc., New York, N. Y. Perfumes, sachets, talcum powder, face powder, cold cream, etc. Nos. 151,444-7; Feb. 7.
- Cheramy, Incorporated, New York, N. Y. Brilliantine, face-cream, toilet water, perfume. No. 153,680; Mar. 28.
- Cheramy, Incorporated, New York, N. Y. Brilliantine, face powder, face cream, toilet water, etc. No. 154,242; Apr. 11.
- Cheramy, Inc., New York, N. Y. Talcum powder, rouge, cold cream, etc. No. 155,640; June 6.
- Cheramy, Incorporated, New York, N. Y. Toilet soaps. No. 155,641; June 6.
- Cheramy, Incorporated, New York, N. Y. Perfume, toilet water, sachet powder, etc. No. 156,206; June 20.
- Cheramy, Incorporated, New York, N. Y. Bath salts. No. 157,315; Aug. 1.
- Cheramy, Incorporated, New York, N. Y. Perfume, toilet water, face lotion and powder, etc. No. 157,316; Aug. 1.
- Cheramy Incorporated, New York, N. Y. Toilet soap. No. 157,654; Aug. 15.
- Cheramy, Inc., New York, N. Y. Perfumes, toilet waters, face and toilet powders, sachets, etc. No. 159,310; Sept. 26.
- Cheramy, Inc., New York, N. Y. Perfumes, toilet waters, face powders, sachet, cold cream, etc. No. 161,097; Nov. 7.
- Cheramy, Incorporated, New York, N. Y. Certain toilet preparations. No. 162,151; Dec. 5.
- Cherokee Fuel Company, Kansas City, Mo. Coal. No. 151,097; Jan. 24.
- Cherokee Spinning Co., Knoxville, Tenn. Yarns and threads. No. 151,098; Jan. 24.
- Cherry-Bassett Company, Wilmington, Del., and Philadelphia, Pa. Machines for dairies, ice-cream plants, etc. No. 151,379; Jan. 31.
- Cherry Blossom Mfg. Co. (See Standard Bottling Company, assignor.)
- Cherry Blossom Mfg. Co., Newton, Iowa. Nonalcoholic fruit-juice beverages and sirups for making same. Nos. 153,988-99; Apr. 4.
- Cherry Blossom Mfg. Co., Newton, Iowa. Nonalcoholic, noncereal, maltless beverages and sirups for making same. Nos. 157,893-4; Aug. 22.
- Cherry Blossom Mfg. Co., Newton, Iowa. Beverages sold as soft drinks and sirups for making the same. Nos. 158,404-9; Sept. 5.
- Cherry Blossom Mfg. Co., Newton, Iowa. Nonalcoholic, noncereal, maltless beverages sold as soft drinks and sirups for making the same. Nos. 158,631-6; Sept. 12.
- Cherry Blossom Mfg. Co., Newton, Iowa. Beverages sold as soft drinks and sirups for making same. No. 160,846; Oct. 31.
- Cherry Blossom Mfg. Co., Newton, Iowa. Beverages sold as soft drinks and sirups for making same. Nos. 162,040-54; Dec. 5.
- Cherry, Edgar M., Eastport, Me. Dry, ready-mixed, and paste paints. No. 159,678; Oct. 3.
- Cherry Fridge Company, The, Chicago, Ill. Nonalcoholic, noncereal, maltless beverages and sirups for making the same. No. 157,895; Aug. 22.
- Chesebrough Manufacturing Company Consolidated, New York, N. Y. Petroleum jelly, oil petrol, white mineral oil, oil of petroleum, all for lubricating purposes. No. 151,099; Jan. 24.
- Chesebrough Manufacturing Co. Consolidated, New York, N. Y. Petroleum jelly. No. 161,098; Nov. 7.
- Chester Kent & Co., Inc., Boston, Mass. Food containing the elements of beef, milk, rice, and yeast. No. 154,596; Apr. 18.
- Chester Lace Mills, Chester, Pa. Lace curtains and nets or curtain lace in the piece. No. 161,438; Nov. 14.
- Chesterman-Leeland Co., Philadelphia, Pa. Hernial trusses. No. 154,903; May 16.
- Chestnutt, Owen L., Atlanta, Ga. Toothbrushes. No. 154,000; Apr. 4.
- Chevy Chase Food Products Co., Washington, D. C. Food relishes — namely, mayonnaise and Russian dressing. No. 156,853; July 18.
- Chew't Company, Cincinnati, Ohio. Combination of chicle and essence of tobacco. No. 150,291; Jan. 3.
- Chicago Bargain House, Chicago, Ill. Hats for women and children. No. 161,099; Nov. 7.
- Chicago Belting Company, Chicago, Ill. Welting. No. 154,511; Apr. 18.
- Chicago Chemical Company, Chicago, Ill. Chemical solution for use in electric storage batteries. No. 155,312; May 23.
- Chicago Eye Shield Company, Chicago, Ill. Eyeshields and protectors. No. 152,714; Mar. 7.
- Chicago Ferrule & Nut Company, Chicago, Ill. Tobacco moistener. No. 162,702; Dec. 26.
- Chicago Flexible Shaft Company, Chicago, Ill. Lawn sprinklers. No. 161,439; Nov. 14.
- Chicago Fountain Soda Water Company, The, Chicago, Ill. Nonalcoholic, maltless, fruit beverages and sirups for making same. No. 152,715; Mar. 7.

- Chicago Glass Products Company, The, Chicago, Ill. Glass products. No. 158,637; Sept. 12.
- Chicago Granitine Manufacturing Company, Chicago, Ill. Garbage and ash receptacles. No. 154,904; May 16.
- Chicago Granitine Manufacturing Company, Chicago, Ill. Stationary laundry tubs. Nos. 158,410-11; Sept. 5.
- Chicago Nipple Mfg. Co. of California, Los Angeles, Calif. Tire valves. No. 162,482; Dec. 19.
- Chicago Piston Ring Co. (not Inc.) (See Hallam, Ralph M.)
- Chicago Pneumatic Tool Company, New York, N. Y. Pneumatic chipping and riveting hammers and drills and repair parts thereof. No. 151,448; Feb. 7.
- Chicago Printed String Co., Chicago, Ill. Holiday ribbonette, printed ribbon, and printed string. No. 161,354; Nov. 7.
- Chicago Radio Laboratory, Chicago, Ill. Electrical apparatus for radio signaling. No. 161,691; Nov. 14.
- Chicago Timer Factory Incorporated, Chicago, Ill. Timers for internal-combustion engines. Nos. 156,642-3; July 11.
- Chicago Vitreous Enamel Product Company, Cicero, Ill. Vitreous or porcelain enamel to be baked on metal ware. No. 150,292; Jan. 3.
- Chicago Vitreous Enamel Product Company, Cicero, Ill. Enameled cast-metal, wrought-metal, and sheet-steel stove parts. No. 160,149; Oct. 17.
- Chilprufe Manufacturing Company, The. (See Bolton, John A.)
- China American Tobacco & Trading Co., Inc., New York, N. Y. Hair nets. No. 155,394; May 30.
- Chinn, Rosa, New Orleans, La. Hair grease, hair oil, and shampoo. No. 158,200; Aug. 29.
- Chinoiz gyögysszer és vegyszert termékek gyára r. t. (Dr. Kereszty és Dr. Wolf), Ujpest, Hungary. Preparations for distoma. No. 151,711; Feb. 14.
- Chipman Knitting Mills. (See Rambo & Regar, Inc., assignor.)
- Chippewa Milling Co., Montevideo, Minn. Wheat flour. No. 159,847; Oct. 10.
- Chloreate Company, The, Chicago, Ill. Toilet powder. No. 158,916; Sept. 19.
- Chmiell, John, Co., Boston, Mass. Beverages made of fruit juices and sold as soft drinks and sirups for making same. No. 160,541; Oct. 24.
- Choate, Charles N., Bridgeport, Conn. Nonferrous ingots of copper, nickel, and zinc and alloys for same. No. 154,905; May 16.
- Choc-Lo Co., Inc., The, New York, N. Y. Nonalcoholic beverage. No. 158,638; Sept. 12.
- Choc-Lo Food Company, Highland Park, Mich. Filler and flavor for pies, puddings, and cakes. No. 152,716; Mar. 7.
- Chocolate Products Company, Baltimore, Md. Candy comprised wholly or in part of chocolate. No. 156,207; June 20.
- Chocolate Products Company, Baltimore, Md. Candy comprised wholly or in part of chocolate. No. 158,576; Sept. 5.
- Chocolate Products Co., Baltimore, Md. Candy composed wholly or in part of chocolate. No. 160,441; Oct. 24.
- Chocolate Products Company, Baltimore, Md. Candy comprised wholly or in part of chocolate. No. 162,483; Dec. 19.
- Chocolats fins Zurcher S. A., Clarens-Montreux, Switzerland. Chocolate, cocoa, etc.; fresh, dried, conserved fruits, etc. Nos. 152,717-18; Mar. 7.
- Choinski, Walter, Milwaukee, Wis. Self-cleaning pit mats for bowling alleys and devices for trapping and cleaning balls. No. 155,213; May 23.
- Cholsanin A. G., Berne, Switzerland. Preparations for the treatment of diseases of the liver. No. 157,317; Aug. 1.
- Chong Jan Company, Fresno, Calif. Noodles. No. 154,512; Apr. 18.
- Chore Utensils Corporation, The. (See Kingman, Russell B., assignor.)
- Chore Utensils Corporation of America, The, Orange, N. J. Scouring cloths. No. 162,703; Dec. 26.
- Chowdhury, Kaelas D., Chicago, Ill. Perfumes, toilet waters, and sachets. No. 155,395; May 30.
- Christensen, Peter C., Orange, N. J. Casein product or material. No. 155,642; June 6.
- Christian Moerlein Brewing Co., The, Cincinnati, Ohio. Beer. Nos. 162,484-5; Dec. 19.
- Christian Moerlein Brewing Co., The, Cincinnati, Ohio. Beer. No. 162,704; Dec. 26.
- Christian Paper Tobacco Co., St. Louis, Mo. Cigarettes. No. 152,720; Mar. 7.
- Christian Paper Tobacco Co., St. Louis, Mo. Tobacco. No. 152,721; Mar. 7.
- Christians, H. C., Co., Chicago, Ill. Butter. No. 162,426; Dec. 12.
- Christie Film Company, Inc., Los Angeles, Calif. Motion pictures. No. 150,770; Jan. 10.
- Christman Ointment Co., The, Greenville, N. C. Ointment for skin diseases. No. 150,293; Jan. 3.
- Christopher, Arthur B., doing business as The Tel-Auto-Spark Company, St. Louis, Mo. Electrical circuit tester. No. 160,150; Oct. 17.
- Christopher, L. J., Company, Los Angeles, Calif. Ice cream. No. 158,337; Aug. 29.
- Christy & Comp., Limited, London, England. Hats, caps, and helmets. No. 162,954; Dec. 26.
- Churchill & Alden Co., Brockton, Mass. Shoes and boots for men, women, and children. No. 154,514; Apr. 18.
- Churchill & Alden Co., Brockton, Mass. Shoes and boots of leather, canvas, woolen cloth, rubber, etc. No. 157,477; Aug. 8.
- Cigar Makers Co-Operative Company, The, Cincinnati, Ohio. Cigars. No. 150,771; Jan. 10.
- Cimicata, Louis E., St. Louis, Mo. Cough drops. No. 157,318; Aug. 1.
- Cincinnati Aluminum Casting Company, The, Cincinnati, Ohio. Aluminum foot rests, heel rests, door mats, and foot mats. No. 150,772; Jan. 10.
- Cincinnati Art Publishing Company, The, Cincinnati, Ohio. Picture-card art novelties in the form of printed or hand-tinted cut-out figures. No. 152,022; Feb. 14.
- Cincinnati Beverage and Products Co., The, Cincinnati, Ohio. Fruit beverage sold as a soft drink and sirup therefor. No. 156,507; June 27.
- Cincinnati-Bickford Tool Company, The, Cincinnati, Ohio. Metal-drilling machinery. No. 157,615; Aug. 8.
- Cincinnati Clock & Instrument Co., The, Cincinnati, Ohio. Hall, mantel, and chime clocks. No. 162,213; Dec. 12.
- Cincinnati Frog and Switch Co., The, Cincinnati, Ohio. Switches and switch stands. No. 159,311; Sept. 26.
- Cincinnati Frog & Switch Co., Cincinnati, Ohio. Railway frogs, crossings, rail braces, and guard rails. No. 159,312; Sept. 26.
- Cincinnati Horse Shoe & Iron Co., Cleves, Ohio. Automobile springs. No. 160,412; Oct. 24.
- Cincinnati Rubber Mfg. Co., The, Norwood, Ohio. Rubber hose, belting, and packing. No. 160,411; Oct. 24.
- Cincinnati Shaper Co., The, Cincinnati, Ohio. Shapers and crank planers. No. 155,145; May 16.
- Citizens' Wholesale Supply Co., The, Columbus, Ohio. Certain chemical, medicinal, and pharmaceutical preparation. No. 150,294; Jan. 3.
- Citizens' Wholesale Supply Company, The, Columbus, Ohio. Coffee makers and percolators. No. 151,449; Feb. 7.
- Citizens' Wholesale Supply Co., The, Columbus, Ohio. Table sirups and molasses. No. 153,681; Mar. 28.
- Citrolene Company, The. (See Swearingen, Carl W.)
- Citrus Products Co., Chicago, Ill. Beverages sold as soft drinks and sirups and concentrates for making same. No. 158,917; Sept. 19.
- City Brass Works Co., Chicago, Ill. Hinges, particularly windshield hinges. No. 158,201; Aug. 29.
- City Creamery Co., Inc., Birmingham, Ala. Sweet milk, buttermilk, cream, and butter. No. 151,712; Feb. 14.
- City Dairies Company, The, St. Louis, Mo. Ice cream. No. 160,413; Oct. 24.
- City Mills Company, Columbus, Ga. Wheat flour. No. 153,425; Mar. 21.
- City Mills Company, Columbus, Ga. Corn meal. No. 159,313; Sept. 26.
- Cladwell Distributing Company, New York, N. Y. Knitted sweaters. No. 160,151; Oct. 17.
- Clafins Incorporated, New York, N. Y. Cotton piece goods. No. 150,773; Jan. 10.
- Clapp, Edwin & Son, Inc., East Weymouth, Mass. Shoes. No. 154,515; Apr. 18.
- Clapper, Anne T., Pittsburgh, Pa. Toilet creams, astringent lotions, etc. No. 154,245; Apr. 11.
- Clapper, Anne T., Pittsburgh, Pa. Toilet creams, astringent and skin-cleansing lotions, muscle oil. No. 155,398; May 30.
- Clark, A. L., & Co., Inc., New York, N. Y. Dressmakers' pins and bone rings. No. 156,114; June 13.
- Clark Bros. Mfg. Co., Camden, N. J., and Philadelphia, Pa. Rope, rovings, cords, and twines made from vegetable and animal fibers. No. 158,918; Sept. 19.
- Clark, C. H., Oil Company, The, Cleveland, Ohio. Lubricating oils and greases. No. 151,100; Jan. 24.
- Clark, Cadle, Harmon Corp., Rochester, N. Y. Laundry washing machines and wringers. No. 156,644; July 11.
- Clark Car Company, Pittsburgh and Johnstown, Pa. Dump cart. No. 159,175; Sept. 19.
- Clark Car Company, Pittsburgh and Johnstown, Pa. Dump cars. No. 162,705; Dec. 26.
- Clark-Gandion Truss Company. (See Gandion, Louis D.)
- Clark, George H., Newark, N. J. Cream malted chocolate. No. 157,655; Aug. 15.
- Clark, Guy O., Vancouver, British Columbia, Canada, and Seattle, Wash. Dairy product. No. 159,679; Oct. 3.
- Clark Pneumatic Action Company, Milwaukee, Wis. Expression-control device for pneumatic players. No. 151,101; Jan. 24.
- Clark, Robert S., Olympia, Wash. Medicinal preparation used for the reduction of inflammations. No. 157,897; Aug. 22.
- Clark Thread Company, Newark, N. J. Cotton thread. No. 20,528; renewed Dec. 29, 1921.
- Clark Thread Company, Newark, N. J. Cotton thread. Nos. 20,529-30; renewed Dec. 29, 1921.
- Clark Thread Company, Providence, R. I. Cotton thread. Nos. 20,608-9; renewed Jan. 19, 1922.
- Clark Thread Company, Newark, N. J. Spool cotton. No. 20,616; renewed Jan. 19, 1922.
- Clark Thread Company, The, Newark, N. J. Thread and yarn. No. 159,848; Oct. 10.
- Clark Thread Company, The, Newark, N. J. Crochet cotton. Nos. 162,632-3; Dec. 19.

Alphabetical list of registrants of trade-marks—Continued.

- Clark-Turner Piston Company, Los Angeles, Calif. Pistons for internal-combustion engines. No. 156,645; July 11.
- Clark, W. G., & Co. Inc., North Attleboro, Mass. Jewelry and precious metal ware. No. 160,089; Oct. 10.
- Clark, W. L. M., Incorporated, St. Louis, Mo. Paper patterns. No. 155,643; June 6.
- Clark, W. N., Company, Rochester, N. Y. Canned blackberries, raspberries, gooseberries, pineapple, peaches, plums, etc. No. 160,414; Oct. 24.
- Clark, William J., doing business as The Liberton Co., New York, N. Y. Remedy for constipation. No. 161,355; Nov. 7.
- Clark & Leonard, New York, N. Y. Calendar desk pads. No. 161,760; Nov. 21.
- Clarke, A. Keeney, New York, N. Y. Hosiery. No. 157,270; July 25.
- Classo Album Company. (See Kasnick, Anton F.)
- Claudius Ash, Sons & Co., Limited, London, England. Certain named dental apparatus and supplies. No. 154,246; Apr. 11.
- Claus Automatic Gas Cock Co., Milwaukee, Wis. Oven-temperature regulators. No. 150,774; Jan. 10.
- Clausen Zoller Company, The, St. Louis, Mo. Blood and nerve tonic in liquid form. No. 152,132; Feb. 21.
- Clausen Zoller Company, The, St. Louis, Mo. Blood and nerve tonic in tablet form. No. 154,249; Apr. 11.
- Clauss-Broeker Co., Elizabeth, N. J. Nonalcoholic, noncereal, maltless beverages, and sirups for making the same. No. 158,154; Aug. 22.
- Clay, Henry, and Bock & Co. Ltd., New York, N. Y. Cigars. Nos. 150,839-40; Jan. 10.
- Clayburgh Brothers, San Francisco, Calif. Tubular knit fabric made of artificial silk. No. 158,919; Sept. 19.
- Clayes, Margaret, San Francisco, Calif. Certain receptacles. No. 154,906; May 16.
- Clayton Mfg. Co., Bristol, Conn. Scissors and shears. No. 157,616; Aug. 8.
- Clayton Pharmacal Co., The. (See Runner, Earle I.)
- Clayton-Wright Ltd., Birmingham, England. Bulb horns and mechanical horns. No. 151,102; Jan. 24.
- Clayton-Wright, Ltd., Birmingham, England. Certain electrical apparatus for motor vehicles. No. 152,724; Mar. 7.
- Clear Vision Pump Company, The, Wichita, Kans. Gasoline measuring and dispensing pumps. No. 152,573; Feb. 28.
- Clear Vision Pump Company, The, Wichita, Kans. Gasoline measuring and dispensing pumps. No. 154,436; Apr. 11.
- Clearwater, H. P., Hallowell, Me. Pharmaceutical preparations. No. 159,314; Sept. 26.
- Clements Mfg. Co., Chicago, Ill. Electric suction sweepers. No. 156,646; July 11.
- Cleminshaw, Levitch, & Company, New York, N. Y. Mohair dress fabrics and linings. No. 152,133; Feb. 21.
- Cleveland Brass Manufacturing Co., The, Cleveland, Ohio. Valves, cocks, bibs, and pipe connectors. No. 150,775; Jan. 10.
- Cleveland Builders Supply and Brick Company, The, Cleveland, Ohio. Prepared mixture for use in the construction of sidewalks, etc. No. 153,137; Mar. 14.
- Cleveland Builders Supply & Brick Company, Cleveland, Ohio. Prepared mixture for use in making mortar. No. 160,415; Oct. 24.
- Cleveland Coatings Company, Cleveland, Ohio. Dry paints. No. 158,412; Sept. 5.
- Cleveland Co-Operative Stove Co., The, Cleveland, Ohio. Gas ranges, heaters, furnaces, etc. No. 160,152; Oct. 17.
- Cleveland Detroit Camera Company, Cleveland, Ohio. Cameras, motion-picture taking and projecting machines, etc. No. 161,761; Nov. 21.
- Cleveland Fruit Juice Company, The, Cleveland, Ohio. Earthenware and porcelain jugs. No. 155,397; May 30.
- Cleveland Fruit Juice Company, The, Cleveland, Ohio. Fruit sirups for the preparation of soft drinks and beverages. No. 158,920; Sept. 19.
- Cleveland Gas Burner & Appliance Co., The, Cleveland, Ohio. Burner equipment sold as a complete system for furnaces, ranges, and stoves. No. 151,103; Jan. 24.
- Cleveland Metal Products Company, The, Cleveland, Ohio. Oil stoves, burners, and water heaters, and ovens for oil stoves. No. 160,153; Oct. 17.
- Cleveland Pneumatic Tool Company, The, Cleveland, Ohio. Hose couplings. No. 155,882; June 6.
- Cleveland Pneumatic Tool Company, The, Cleveland, Ohio. Certain pneumatic tools consisting of riveting hammers. No. 157,617; Aug. 8.
- Cleveland Provision Company, The, Cleveland, Ohio. Certain named foods. No. 154,516; Apr. 18.
- Cleveland, Reginald M., New York, N. Y. Thoroughbred dogs. No. 155,945; June 13.
- Cleveland-Sandusky Company, The, Cleveland, Ohio. Mineral spring water, lithiated water, and certain soft drinks. No. 162,006; Nov. 28.
- Cleveland Surgical Supply Company, The, Cleveland, Ohio. Surgical cotton points. No. 160,416; Oct. 24.
- Cleveland Tractor Company, The, Euclid, Ohio. Cultivators, plows, harrows, etc., and hitches. No. 154,907; May 16.
- Cleveland Twist Drill Company, The, Cleveland, Ohio. Metal-working small tools. No. 157,027; July 25.
- Cleveland, W. G., Co., Inc., The, St. Louis, Mo. Absorbent gauze, gauze bandages, and sterilized cotton. No. 154,250; Apr. 11.
- Clift and Goodrich Inc., New York, N. Y. Women's knit underwear. No. 160,154; Oct. 17.
- Clifton Manufacturing Co., Waco, Tex. Cotton-picking sacks. Nos. 152,574-7; Feb. 28.
- Clifton Mfg. Company, Waco, Tex. Tents, awnings, paulins, tarpaulins, textile waterproof wagon covers. Nos. 150,295-9; Jan. 3.
- Clifton Mfg. Company, Waco, Tex. Tents, awnings, paulins, tarpaulins, and detached waterproof wagon covers. No. 157,028; July 25.
- Clifton Mfg. Company, Waco, Tex. Tents, awnings, paulins, tarpaulins, etc. No. 159,849; Oct. 10.
- Climax Molybdenum Company, Wilmington, Del., and New York, N. Y. Calcium molybdate. No. 153,682; Mar. 28.
- Climax Polish Company, The. (See Ziegler, Gustav F.)
- Climax Rubber Co., The, Columbus, Ohio. Automobile tires of rubber and of rubberized fabric, inner tubes, liners, and patches. No. 156,647; July 11.
- Clinton Chemical Company, Irvington, N. J. Gasoline intensifier. No. 158,921; Sept. 19.
- Clinton Malt Product Co., Clinton, Iowa. Malt-sirup used for and in the manufacture of beverages. No. 151,104; Jan. 24.
- Clinton & Cameron, South Boston, Mass. Compound for sealing punctures and slow leaks in pneumatic tires. No. 155,215; May 23.
- Clothier, Giles & Co. Limited, Yeovil, England. Leather gloves. No. 162,055; Dec. 5.
- Cloud Accessories Corporation, The, Chicago, Ill. Spark plugs for internal-combustion engines. Nos. 151,450-1; Feb. 7.
- Cloud Accessories Corporation, The, Chicago, Ill. Automobile accessories, particularly spark plugs. No. 151,452; Feb. 7.
- Cluett, Peabody & Co., Inc., Troy, N. Y. Shirts and collars. No. 154,193; Apr. 4.
- Clyde Castings Co., The, Clyde, Ohio. Carving, butter, and fruit, etc., knives, and can openers. No. 154,251; Apr. 11.
- Clyde, Collins Company, Inc., The, Memphis, Tenn. Tonic for rheumatism. No. 150,300; Jan. 3.
- Clyde, Collins Company, Inc., The, Memphis, Tenn. Aphrodisiac. No. 150,301; Jan. 3.
- Coast Envelope Company, Los Angeles, Calif. Correspondence envelopes. No. 154,001; Apr. 4.
- Coast Fishing Co., Inc., Wilmington, Calif. Canned fish. No. 156,115; June 13.
- Coast Manufacturing & Supply Company, Livermore, Calif. Nonelectrical safety fuse. No. 153,138; Mar. 14.
- Coast Products Company, The, St. Louis, Mo. Canned fruits, vegetables, fish, crab meat, molasses, mincemeat, and pickles. No. 160,417; Oct. 24.
- Coast Specialty Co. Inc., Bellingham, Wash. Cigars. No. 153,139; Mar. 14.
- Coatesville Boiler Works, Coatesville, Pa. Certain receptacles. No. 153,140; Mar. 14.
- Coatesville Boiler Works, Coatesville, Pa. Steam boilers, blast furnaces, and kilns. No. 154,002; Apr. 4.
- Coats, George A., Indianapolis, Ind. Automobiles, motor-propelled trucks, etc. No. 160,418; Oct. 24.
- Coats, J. & P., (R. L.) Inc. (See Coats, J. & P., Limited, assignors.) (Renewed.)
- Coats, J. & P., Limited, Paisley, Scotland, assignors to J. & P. Coats (R. L.) Inc. Cotton thread or spool cotton. No. 20,526; renewed Dec. 29, 1921.
- Coats, J. & P., Limited, Paisley, Scotland, assignors to J. & P. Coats (R. L.) Inc. Spool cotton, or cotton thread. No. 20,527; renewed Dec. 29, 1921.
- Coats, J. & P., Limited, Paisley, Scotland, assignors to J. & P. Coats (R. L.) Inc. Spool cotton or cotton thread. Nos. 20,625-6; renewed Jan. 19, 1922.
- Cobwell Corporation, Cleveland, Ohio. Sanitation process and organic-waste-reduction systems and parts thereof. No. 151,453; Feb. 7.
- Coca Cola Bottling Co. (See Furcotte, Lucien F.)
- Coca Cola Bottling Company, Chicago, Ill. Beverage sold as a soft drink. No. 156,208; June 20.
- Coca Cola Bottling Distributing Co., Los Angeles, Calif. Nonalcoholic, noncereal, maltless beverages and sirups for making the same. No. 150,302; Jan. 3.
- Coca-Cola Bottling Distributing Co., Los Angeles, Calif. Nonalcoholic, noncereal, maltless beverages and sirups for making the same. No. 160,155; Oct. 17.
- Coca Cola Company, The. (See Coca Cola Company, The, assignor.)
- Coca Cola Company, The, Atlanta, Ga., assignor to The Coca Cola Company. Nutrient or tonic beverages. No. 22,406; renewed Jan. 31, 1923.
- Cocciola, Guiseppina, North Revere, Mass. Herb tonic. No. 150,303; Jan. 3.
- Cochran, John P., Co., The, Cleveland, Ohio. Flat oil paint. No. 158,922; Sept. 19.
- Cochran, Roy H., Ventnor, N. J. Toilet or complexion cream. No. 154,003; Apr. 4.
- Cochrane, Eugene S., Washington, D. C. Cigars, cigarettes, tobacco. No. 162,706; Dec. 26.
- Cockatoo Preserves Limited, doing business as Manufacturers, Collingwood, Victoria, Australia. Anchovy essence, coffee essence, cheese, canned fruits, etc. No. 162,214; Dec. 12.

Alphabetical list of registrants of trade-marks—Continued.

- Cocking, Henry, Salida, Colo. Liniment for certain uses. No. 153,579; Mar. 21.
- Coco Soap Company, The, Denver, Colo. Soap. No. 152,725; Mar. 7.
- Cocuzza, Peter, Newark, N. J. Healing salve. No. 157,898; Aug. 22.
- Codex Book Co., Inc., New York, N. Y. Ruled sheets to be used for making graphic charts. No. 156,209; June 20.
- Coe, James A., Jersey City, N. J. Preparation for coughs, colds, and mild bronchial ailments. No. 156,210; June 20.
- Coffey, William M., Texarkana, Tex. Rat poison. No. 153,683; Mar. 28.
- Coffield Washer Co., The, Dayton, Ohio. Laundry washing machines and clothes wringers. No. 156,648; July 11.
- Cogbill, Harvey P., doing business as Celestial Chemical Company, Chicago, Ill. Face creams. No. 158,413; Sept. 5.
- Cogley, Edward F., Omaha, Nebr. Rubber-tire repair outfits containing inner-tube patches and rubber cement. No. 155,313; May 23.
- Cohen, Goldman & Co., Inc., New York, N. Y. Certain articles of clothing. No. 155,644; June 6.
- Cohen, Harry, doing business as Harry Cohen & Co., Philadelphia, Pa. Knitting yarns. No. 159,850; Oct. 10.
- Cohen, Harry, & Co. (See Cohen, Harry.)
- Cohen, J. Robinson, & Bro., New York, N. Y. Eyeglasses. No. 156,144; June 13.
- Cohen, Jacob H., doing business as The Arrow Knitting Company, New York, N. Y. Men's hosiery made of cotton, silk, and wool. No. 159,176; Sept. 19.
- Cohen, Morris A., Boston, Mass. Medicinal tablets to relieve headache, neuralgia, migraine, etc. No. 150,304; Jan. 3.
- Cohen, Morris A., Boston, Mass. Medicinal tablets to relieve cold, gripe, etc. No. 150,306; Jan. 3.
- Cohen, N. B., Scranton, Pa. Hair nets. No. 150,776; Jan. 10.
- Cohen, N. B., Scranton, Pa. Hair nets. No. 152,869; Feb. 28.
- Cohen, N. B., Scranton, Pa. Hair nets. Nos. 157,899-903; Aug. 22.
- Cohen, Nathan B., Scranton, Pa. Hair nets. No. 152,053; Feb. 14.
- Cohen, Samuel, Philadelphia, Pa. Motion and still picture films. No. 150,777; Jan. 10.
- Cohen-Sulkis Shoe Co., Inc., Boston, Mass. Shoes, overshoes, galoshes, moccasins, rubber boots, etc. No. 156,116; June 13.
- Cohen, Tully S., doing business as R. Frost & Co., New York, N. Y. Children's and misses' dresses. No. 161,100; Nov. 7.
- Cohen & Ertenson, New York, N. Y. Hosiery, knitted and woven underwear, sweaters, overshirts. No. 156,649; July 11.
- Cohn, Goldwater Company, Los Angeles, Calif. Men's and boys' outer suits and trousers. No. 157,904; Aug. 22.
- Cohn-Goodman Company, The, Cleveland, Ohio. Ladies' and misses' coats, suits, and dresses. No. 151,713; Feb. 14.
- Cohn-Hall-Marx Co., New York, N. Y. Cotton piece goods. No. 156,211; June 20.
- Cohn-Hall-Marx Co., New York, N. Y. Cotton piece goods. No. 157,656; Aug. 15.
- Cohn-Hall-Marx Co., New York, N. Y. Cotton piece goods. No. 158,640; Sept. 12.
- Cohn, Louis I., doing business as Stays Neat Mattress Company, Philadelphia, Pa. Mattresses. No. 162,215; Dec. 12.
- Cohn & Rosenberger, Inc., New York, N. Y. Bracelets. No. 161,440; Nov. 14.
- Cohrs, Henry, Hanover, Germany. Pharmaceutical preparation used internally for promoting the growth of hair. No. 157,905; Aug. 22.
- Colby Milling Company, Colby, Kans. Wheat and Graham flour and cornmeal. No. 152,726; Mar. 7.
- Colby Steel and Engineering Co., Seattle, Wash. Cranes. No. 152,370; Feb. 28.
- Colby Steel and Engineering Co., Seattle, Wash. Catalogues and trade journals. No. 153,426; Mar. 21.
- Coldak Company, Springfield, Mass. Refrigerators. No. 156,581; July 4.
- Cole, C. C., Atlanta, Ga. Preparation for the treatment of the skin, and face powder. No. 152,134; Feb. 21.
- Cole-Granas-Enderlin Company, Los Angeles, Calif. Child's romper. No. 151,714; Feb. 14.
- Cole Motor Car Co., Indianapolis, Ind. Closed automobiles, bodies, and tops. No. 159,680; Oct. 3.
- Coleman, Aloysius J., New York, N. Y. Ordinary lead pencils and magazine lead pencils. No. 157,029; July 25.
- Coleman Lamp Company, The, Wichita, Kans. Lamps, lanterns, lighting plants and systems, burners, and gas generators. No. 151,380; Jan. 31.
- Colgate & Co., Jersey City, N. J., and New York, N. Y. Soap pellets. No. 150,305; Jan. 3.
- Colgate & Company, Jersey City, N. J. Perfumes, extracts, and toilet water. No. 150,307; Jan. 3.
- Colgate & Company, Jersey City, N. J. Liquid and powdered perfumes. No. 152,135; Feb. 21.
- Colgate & Company, Jersey City, N. J. Soaps. No. 153,141; Mar. 14.
- Colgate & Company, Jersey City, N. J. Liquid and powdered perfumes. No. 154,004; Apr. 4.
- Colgate & Company, Jersey City, N. J. Soaps. No. 155,645; June 6.
- Colgate & Company, Jersey City, N. J. Liquid and powdered perfumes. Nos. 155,646-7; June 6.
- Colgate & Company, Jersey City, N. J. Soaps. No. 155,648; June 6.
- Colgate & Co., Jersey City, N. J., and New York, N. Y. Perfumes, perfumed powders, and toilet waters. No. 158,923; Sept. 19.
- Colgate & Company, New York, N. Y., assignor to Colgate & Company. Perfumes and perfumed soaps and toilet preparations. No. 20,095; renewed Sept. 1, 1921.
- Collene Laboratories Inc., New York, N. Y. Selenium colloids. No. 157,906; Aug. 22.
- Colletti, Angelo, Chicago, Ill. Nonalcoholic beverage. No. 152,371; Feb. 28.
- Collins, C. C., Company, Santa Ana, Calif. Walnuts in their natural state. No. 156,212; June 20.
- Collins Company, The, Collinsville, Conn. Cutlery and tools. No. 159,315; Sept. 26.
- Collins Flour Mills, Pendleton, Oreg. Wheat flour. Nos. 152,136-8; Feb. 21.
- Collins Flour Mills, Pendleton, Oreg. Wheat flour. No. 152,372; Feb. 28.
- Collins Flour Mills, Pendleton, Oreg. Wheat flour. No. 159,851; Oct. 10.
- Collins, Harry, Inc., New York, N. Y. Ladies' dresses, suits, wraps, and fur pieces. No. 161,101; Nov. 7.
- Collins-Hencke Candy Co., San Francisco, Calif. Candy. No. 160,419; Oct. 24.
- Colman, J. & J., Limited, Norwich and London, England. Preparation of mustard forming a relish condiment, or sauce. Nos. 150,308-9; Jan. 3.
- Colonial Chemical Corporation, Reading, Pa. Disinfectant. No. 156,213; June 20.
- Colonial Dames Beautifier Company, Los Angeles, Calif. Beautifier (paste form), rouge, shampoo, hair tonic, depilatory, eyebrow pencil. No. 157,907; Aug. 22.
- Colonial Export & Import Company, New York, N. Y. Wheat flour. No. 159,316; Sept. 26.
- Colonial Leather Company, Inc., The, Philadelphia, Pa. Belt preservatives. No. 162,216; Dec. 12.
- Colonial Pretzel Company, The. (See Bristol, William J.)
- Colonial Rug Company, Waltham, Mass. Rugs made of wool and cotton, and carpets. No. 157,908; Aug. 22.
- Colony Mills, Inc., New York, N. Y. Cotton piece goods, drapery fabrics of cotton, silk, etc. No. 159,681; Oct. 3.
- Colorado Milling & Elevator Company, The, Denver and Eaton, Colo. Wheat flour. No. 151,715; Feb. 14.
- Colorfast Shirt Co., Inc., New York, N. Y. Dress, negligee, and work shirts. No. 162,007; Nov. 28.
- Colson, Sarah A., and J. L., administratrices of the estate of Edwin Colson, Elmer, N. J. Seed potatoes. No. 160,420; Oct. 24.
- Colton & Collins, Inc., Oakland, Calif. Elixir and suppository for certain uses. No. 156,214; June 20.
- Colton & Collins, Inc., Oakland, Calif. Vaginal suppositories and a general tonic. No. 157,909; Aug. 22.
- Colton & Collins, Inc., Oakland, Calif. Internal preparation for the treatment of influenza, lumbago, etc. No. 158,202; Aug. 29.
- Columbia Carbon Company, The, Dayton, Ohio. Inked ribbons and carbon sheets for duplicating or transferring impressions. No. 151,716; Feb. 14.
- Columbia Coffee Co., Inc., The, Boston, Mass. Coffee. No. 160,847; Oct. 31.
- Columbia Graphophone Manufacturing Company, New York, N. Y. Brushes for phonograph records. No. 152,023; Feb. 14.
- Columbia Mills, Inc., The, New York, N. Y. Window-shade cloth in the piece made of cotton muslin. No. 159,682; Oct. 3.
- Columbia Mills, Inc., The, New York, N. Y. Cotton goods in the piece or roll. No. 161,441; Nov. 14.
- Columbia Shirt Company, New York, N. Y. Collars, cuffs, dress and negligee shirts. No. 162,955; Dec. 26.
- Columbia Tire and Rubber Company, The, Mansfield, Ohio. Inner tubes for pneumatic, cord, and fabric tires. No. 159,611; Sept. 26.
- Columbian Bax Co., Amsterdam, N. Y. Preparation for certain named purposes. No. 153,684; Mar. 28.
- Columbian Bronze Corporation, Freeport and New York, N. Y. Self-contained electric generator apparatus. No. 158,414; Sept. 5.
- Columbian Enameling & Stamping Co., Terre Haute, Ind. Cooking and household articles of enameled steel. No. 159,317; Sept. 26.
- Columbian Rope Company, Auburn, N. Y. Rope, twine, and cordage. No. 153,142; Mar. 14.
- Columbus Manufacturing Company, Columbus, Ga. Cotton sheetings. No. 157,479; Aug. 8.
- Columbus Manufacturing Company, Columbus, Ga. Cotton sheetings. No. 159,683; Oct. 3.
- Colwell, H. R., Washington, D. C. Toy animals and balloons and barking or sounding toys. No. 151,105; Jan. 24.
- Colwell, H. R., Washington, D. C. Toy animals, toy balloons, and barking and sounding toys. No. 158,415; Sept. 5.
- Combustionwerk Eulitz & Co., Fahrbrücke, Germany. Salves and ointments. No. 157,480; Aug. 8.
- Comer, Fetterly & Co., Union Hill, N. J. Certain medicinal preparation. Nos. 152,139-40; Feb. 21.

Alphabetical list of registrants of trade-marks—Continued.

- Comer, Fetterly & Co. Inc., Union Hill, N. J., and New York, N. Y. Certain medicinal preparation. No. 153,398; May 30.
- Comer, Fetterly & Co. Inc., Union Hill, N. J., and New York, N. Y. Pharmaceutical preparation of animal-gland substances for ovarian insufficiency. No. 153,399; May 30.
- Comer, Fetterly & Co. Inc., Union Hill, N. J., and New York, N. Y. Pharmaceutical preparations for faulty digestion. No. 160,848; Oct. 31.
- Comer Manufacturing Company, The, Dayton, Ohio. Rain-coats, cravenettes, gabardines, bath robes, and ladies' skirts. No. 158,155; Aug. 22.
- Comer Manufacturing Company, The, Dayton, Ohio. Rain-coats, cravenettes, gabardines, bath robes, and ladies' skirts. No. 160,156; Oct. 17.
- Comfort Powder Co. Inc., The, Boston, Mass. Toilet powder. Nos. 155,649-50; June 6.
- Commerce Fruit Company, Eustis, Fla. Fresh oranges, grapefruits, and tomatoes. No. 160,421; Oct. 24.
- Commercial Furniture Company, Chicago, Ill. Desks. No. 150,310; Jan. 3.
- Commercial Lime Company, Ocala, Fla. Hydrated and quick lime. No. 160,422; Oct. 24.
- Commercial Milling Co., The, Detroit, Mich. Wheat flour. No. 161,867; Nov. 21.
- Commercial Newspaper Company, New York, N. Y. Page or department in a periodical publication. No. 151,717; Feb. 14.
- Commercial Paste Co., The, Columbus, Ohio. General adhesive in the form of a paste. Nos. 151,022-3; Jan. 10.
- Commercial Paste Company, The, Columbus, Ohio. Boiler and furnace pastes. No. 155,184; May 16.
- Commercial Soap Company, Reno, Nev. Toilet soap. No. 155,314; May 23.
- Commercial Soap Company, Reno, Nev. Toilet soap. No. 155,400; May 30.
- Commercial Solvents Corporation, New York, N. Y. Certain named chemicals. No. 154,252; Apr. 11.
- Commercial Solvents Corporation, New York, N. Y. Certain chemical preparations. No. 157,806; Aug. 15.
- Commercial Union of America, Incorporated, New York, N. Y. Wheat flour. Nos. 160,423-4; Oct. 24.
- Commonwealth Shoe and Leather Company, Boston, Mass. Leather boots and shoes. No. 157,030; July 25.
- Commonwealth Shoe and Leather Company, Boston, Mass. Leather boots and shoes. No. 162,956; Dec. 26.
- Compagnie Generale D'Electricite, Paris, France. Plastic material having a base of casein. No. 156,215; June 20.
- Compagnie Industrielle et Commerciale du Cycle et de l'Automobile, Neuilly-sur-Seine, France. Mechanically-operated warning devices. No. 161,442; Nov. 14.
- Companhia Geral d'Agricultura das Vinhas do Alto Douro, Oporto, Portugal. Portuguese wines. No. 21,716; renewed Sept. 6, 1922.
- Compass Oil Company, San Francisco, Calif. Petroleum and petroleum products. No. 152,727; Mar. 7.
- Complexion Products Co., New York, N. Y. Liquid chemical preparation for use in making face powder adhere to the skin. No. 157,481; Aug. 8.
- Compo Battery Company, The, Defiance, Ohio. Electric storage batteries and storage-battery parts. No. 155,651; June 6.
- Compo Company, The. (See Berliner, H. S.)
- Compo Thrift Bond Corporation. (See Payson & Payson, assignors.)
- Compoloid Products Corporation, Wilkes-Barre and Duncannon, Pa. Composition flooring and magnesite stucco. No. 155,946; June 13.
- Compound Injector & Specialty Co., Chicago, Ill. Chemical preparation used for softening water. No. 152,311; Feb. 21.
- Compound Injector & Specialty Co., Chicago, Ill. Certain drains and drainage fittings. No. 154,253; Apr. 11.
- Compound Injector & Specialty Co., Chicago, Ill. Certain drains and drainage fittings. No. 154,437; Apr. 11.
- Compound Injector & Specialty Co., Chicago, Ill. Certain drainage fittings. No. 155,884; June 6.
- Conard, Albert J., Kansas City, Mo. Brake linings. No. 157,032; July 25.
- Concentrated Products Corporation, Carlstadt, N. J., and New York, N. Y. Shampoo compound. No. 157,482; Aug. 8.
- Condax, E. A., & Company, Inc., New York, N. Y. Cigarettes. No. 150,778; Jan. 10.
- Condé, Frederick, New York, N. Y. Knitted underwear, shirts, drawers, union suits, and bloomers for men and women. No. 159,177; Sept. 19.
- Con-Den-Rit Radiant Log Corporation, The, Perth Amboy, N. J. Gas logs and stoves. No. 160,157; Oct. 17.
- Condensed Bluing Company, Chicago, Ill. Bluing. No. 155,652; June 6.
- Condensed Bluing Co., The, Chicago, Ill. Ammonia. No. 155,947; June 13.
- Condensed Bluing Company, Chicago, Ill. Bluing. No. 156,216; June 20.
- Confederated Onion Growers Association, Portland, Oreg. Raw onions. No. 158,416; Sept. 5.
- Congress Cigar Co., Philadelphia, Pa. Cigars. No. 152,373; Feb. 28.
- Conklin Pen Manufacturing Co., The, Toledo, Ohio. Lead pencils and parts thereof. No. 160,768; Oct. 24.
- Conley Foil Company, The, New York, N. Y. Decoration of shredded tin-foil for Christmas trees. No. 151,718; Feb. 14.
- Conley Foil Company, The, New York, N. Y. Decorations made of tin foil suitable for ornamentation of Christmas trees. No. 152,374; Feb. 28.
- Conlon Electric Washer Co., Inc., Cicero, Ill. Washing machines. No. 162,217; Dec. 12.
- Conn, Andrew C., doing business as Eld-O-Lene Manufacturing Company, New Bedford, Mass. Medicinal salve for the treatment of rheumatism and kindred ailments. No. 157,910; Aug. 22.
- Connecticut Metal & Chemical Co., The, East Berlin, Conn. Bearing, type, and white metals, solders, and white-metal alloys. No. 162,056; Dec. 5.
- Connecticut Telephone & Electric Company Incorporated, Meriden, Conn. Electrical apparatus. No. 157,411; Aug. 1.
- Conner & Walters Company, Charlotte, N. C. Hair tonic. No. 153,427; Mar. 21.
- Conner & Walters Company, Inc., Charlotte, N. C. Medicated toilet preparation for treatment of the hair and scalp. No. 157,319; Aug. 1.
- Connor, E., & Company, Inc., New York, N. Y. Irish friezes and woolen cloths. No. 156,217; June 20.
- Connor, L. H., San Francisco, Calif. Hair nets. No. 157,911; Aug. 22.
- Conrad, Charles F., New York, N. Y. Matches. No. 154,547; Apr. 18.
- Console, Domenico, Brooklyn, N. Y. Razors, shears, hair clippers, table and pocket knives. Nos. 160,090-1; Oct. 10.
- Consolidated Bottling Works, The. (See Weinfeld, Louis.)
- Consolidated Companies Inc., Plaquemine, Morgan City, St. Martinsville, New Roads, and White Castle, La. Chewing and smoking tobacco. No. 152,375; Feb. 28.
- Consolidated Companies, Inc., Plaquemine, Morgan City, St. Martinsville, New Roads, and White Castle, La. Quinine, Epsom salts, castor oil, cough sirup, salt, baking powder, and bluing. No. 159,852; Oct. 10.
- Consolidated Companies, Inc., Plaquemine, Morgan City, St. Martinsville, New Roads, and White Castle, La. Canned goods, cottonseed oil, tomato catsup, etc. No. 162,707; Dec. 26.
- Consolidated Producers and Refiners Co., Fort Worth, Tex. Illuminating oil. No. 153,428; Mar. 21.
- Consolidated Producers and Refiners Co., Fort Worth, Tex. Heavy, medium, and light lubricating oils. No. 153,429; Mar. 21.
- Consolidated Producers and Refiners Co., Fort Worth, Tex. Gasoline. No. 154,254; Apr. 11.
- Consolidated Rendering Co., Boston, Mass. Oleo oil for shortening purposes and used in the manufacture of butterine and oleomargarine. No. 159,853; Oct. 10.
- Consolidated Safety Pin Company, The, Bloomfield, N. J. Safety pins. Nos. 155,653-4; June 6.
- Consolidated Utilities Corporation, Chicago, Ill. Electric light and power plants of a portable type. No. 150,779; Jan. 10.
- Construction Machinery Company, Waterloo, Iowa. Concrete mixers, diaphragm pumps, hoists, backfillers, engines. No. 156,650; July 11.
- Consumers Brewing Company, Ltd., New York, N. Y. Nonalcoholic, cereal, malt beverage. No. 160,339; Oct. 17.
- Consumers Fuse and Powder Company, San Francisco, Calif. Safety fuse. No. 155,401; May 30.
- Consumers Fuse and Powder Company, San Francisco, Calif. Safety fuse. No. 160,769; Oct. 24.
- Consumers Products Co., Brooklyn, N. Y. Malt sirup, nonalcoholic. No. 154,005; Apr. 4.
- Consumers Service Stations, Consolidated, Rochester, N. Y. Lubricating oil. No. 158,641; Sept. 12.
- Container Company, The, Toledo, Ohio. Fiber pails, drums, and cheese boxes and fiber containers for shipping commodities. No. 158,643; Sept. 12.
- Continental Battery Company, St. Louis, Mo. Lead battery plates. No. 158,417; Sept. 5.
- Continental Drug Corporation, St. Louis, Mo. Rubbing alcohol. No. 156,218; June 20.
- Continental Jewelry Company, The, Cleveland, Ohio. Certain articles of jewelry. No. 155,402; May 30.
- Continental Mills, Inc., Philadelphia, Pa. Knitted and woven woolen and worsted cloths, Jersey cloths, etc. No. 155,216; May 23.
- Continental Mills, Inc., Philadelphia, Pa. Knitted woolen and worsted cloth or fabric in the piece. No. 156,219; June 20.
- Continental Mills, Inc., Philadelphia, Pa. Knitted woolen and worsted cloths, elderdowns, chinchillas, etc. No. 157,483; Aug. 8.
- Continental Paper & Bag Mills, New York, N. Y. Wrapping and toilet paper, paper towels and napkins. No. 150,780; Jan. 10.
- Continental Supply Company, The, St. Louis, Mo. Engine oil for lubricating purposes. No. 154,006; Apr. 4.
- Converse, Morton E., and Son Co., Winchendon, Mass. Knockdown children's horses. No. 151,106; Jan. 24.
- Converse Rubber Shoe Company, The, Malden, Mass. Boots and shoes made of rubber or fabric and rubber. No. 150,781; Jan. 10.
- Converse & Company, New York, N. Y. Pillowcases, sheets and bolster coverings. No. 155,217; May 23.

- Conway, Carle C., Earle E. Conway, and Theodore P. Brown, trustees, trading as Hallet & Davis Piano Co., Boston, Mass. Pianos. No. 156,651; July 11.
- Conway's, New Orleans, La. Handmade infants' wear. No. 154,518; Apr. 18.
- Conwell, Lee R., New York, N. Y. Hair straightener. No. 153,685; Mar. 28.
- Cook, Arthur W., Ocean Grove, N. J. Preparation for relief of sunburn. No. 154,259; Apr. 11.
- Cook, Charles I., Menominee, Mich. Coffee. No. 154,519; Apr. 18.
- Cook, Charles I., Menominee, Mich. Coffee. No. 154,781; May 9.
- Cook, Charles I., Menominee, Mich. Coffee. No. 155,315; May 23.
- Cook, Don S., North Eaton, Ohio. Certain veterinary medicine. No. 155,316; May 23.
- Cook, George C., doing business as The Honey Products Co., New York, N. Y. Beverages sold as soft drinks. No. 157,912; Aug. 22.
- Cook, Harry, London, England. Powder for destroying beetles and cockroaches. No. 153,686; Mar. 28.
- Cook, John, & Sons, Inc., Chicago, Ill. Canned meats and vegetables, and canned combinations of meats and vegetables. No. 162,708; Dec. 26.
- Cooke, Frank V., Detroit, Mich. Vehicle springs. No. 151,719; Feb. 14.
- Cookson & Co. Limited, Newcastle-upon-Tyne, England. Oxid of antimony and pigments made therefrom. No. 151,454; Feb. 7.
- Coolidge Piano Company, Boston, Mass. Pianos. Nos. 152,728-9; Mar. 7.
- Coombes & Levison, New York, N. Y. Coats, vests, trousers, and overcoats. No. 157,031; July 25.
- Coca, W. B., Company, Rochester, N. Y. Leather, rubber and leather, fabric and leather, etc., for boots, shoes, slippers. No. 151,024; Jan. 10.
- Coon, W. B., Company, Rochester, N. Y. Leather, rubber, and fabric, etc., boots, shoes, slippers. No. 154,520; Apr. 18.
- Coon, W. B., Co., Rochester, N. Y. Women's shoes and oxfords made of leather, cloth, etc. No. 161,356; Nov. 7.
- Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif. Blue chambray chevrot used as a shirting material. No. 152,054; Feb. 14.
- Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif. Sheets, sheetings, and pillowcases. No. 152,141; Feb. 21.
- Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif. Piece goods—namely bleached muslins, sheets, pillow cases. No. 153,687; Mar. 28.
- Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif. Children's outer garments—namely, dresses. No. 156,220; June 20.
- Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif., and New York, N. Y. Women's dresses and aprons, children's dresses, rompers, and playsuits, etc. No. 157,657; Aug. 15.
- Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif. Silk gloves. No. 160,158; Oct. 17.
- Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif. Kid gloves. No. 162,957; Dec. 26.
- Cooper, James T., London, England. Socks for boots and shoes. No. 158,642; Sept. 12.
- Cooper, Martha W., Chicago, Ill. Leather toilet cases. No. 154,255; Apr. 11.
- Cooper Medicine Co., The, Dayton, Ohio. Liquid laxative cold compound. No. 152,142; Feb. 21.
- Co-Operative Drug Company, Incorporated, Philadelphia, Pa. Perlox face powder. No. 151,107; Jan. 24.
- Co-Operative Foundry Company, Rochester, N. Y. Stoves, ranges, and furnaces. No. 22,052; renewed Nov. 22, 1922.
- Co-Operative League of The United States of America, Assoc., The, New York, N. Y. Pamphlets, monthly magazines, leaflets, etc. No. 162,218; Dec. 12.
- Coöperatieve Zuivel-Export-Vereeniging "Noord-Holland," Alkmaar, Netherlands. Cheese. Nos. 159,684-5; Oct. 3.
- Coopers Creek Chemical Company, West Conshohocken, Pa. Liquid fuel for internal-combustion engines, benzol, toluol, and naphtha. No. 151,720; Feb. 14.
- Coors, Adolph, B. & M. Company, The, Golden, Colo. Malt cereal beverages. No. 152,309; Feb. 21.
- Coors, Adolph B. & M. Company, Golden, Colo. Malted milk, malt sirup, flaked skim milk. No. 152,558; Feb. 28.
- Coors, Adolph B. & M. Company, The, Golden, Colo. Malted milk, malt sirup, and flaked skim milk. No. 154,521; Apr. 18.
- Coors, Adolph B. & M. Company, Golden, Colo. Nonalcoholic, maltless, cereal beverages. No. 156,155; June 20.
- Coors Porcelain Company, The, Golden, Colo. Certain articles of laboratory porcelain ware. No. 155,146; May 16.
- Copelof, Stillman & Co. Inc., New York, N. Y. Dresses, coats, cloaks, suits, and evening wraps for women. No. 157,913; Aug. 22.
- Coppola, James C., doing business as Pola-Gloss Manufacturing Co., Astoria, N. Y. Furniture polish. No. 161,431; Nov. 14.
- Corbett Brothers Co., Paterson, N. J., and New York, N. Y. Ribbons in the piece. No. 153,143; Mar. 14.
- Corcoran, Harry, Chicago, Ill. Liquid malt extract. No. 151,721; Feb. 14.
- Cord Interwoven Patch Co., The, Detroit, Mich. Rubber patches having cord interwoven therein for tire casings and tire inner tubes. No. 151,722; Feb. 14.
- Cord Tire Corporation, Chester, W. Va. Rubber automobile tires, including the casing and inner tube. No. 159,612; Sept. 26.
- Cordes, William, et al., trustees and their successors. (See Florence Manufacturing Company.)
- Coriell, William and Company, New York, N. Y. Cotton piece goods. No. 152,731; Mar. 7.
- Corlies, Macy & Co., Inc., New York, N. Y. Writing papers. No. 152,312; Feb. 21.
- Corn Products Refining Co., New York, N. Y. Liquid and solid glucose, cornstarch. No. 154,522; Apr. 18.
- Corn Products Refining Company. (See National Starch Manufacturing Company, The, assignor.)
- Corn Products Refining Co., New York, N. Y. Laundry starch. No. 161,102; Nov. 7.
- Corn Products Refining Company. (See National Starch Manufacturing Company, assignor.)
- Corning Glass Works, Corning, N. Y. Glass baking ware. No. 153,430; Mar. 21.
- Corning Glass Works, Corning, N. Y. Glass. No. 159,318; Sept. 26.
- Corning Glass Works, Corning, N. Y. Glass. No. 159,854; Oct. 10.
- Corno Mills Company, The, St. Louis, Mo. Cereal food products. Nos. 159,856-7; Oct. 10.
- Cornwell, G. G., & Son, Inc., Washington, D. C. Coffee. No. 157,033; July 25.
- Corona Coal Company, Birmingham, Ala. Coal. No. 154,782; May 9.
- Corona Cord Tire Company, East Butler, Pa. Automobile tire casings and tubes of rubber. No. 159,855; Oct. 10.
- Corona Rubber Manufacturing Co., Philadelphia, Pa. Golf balls. No. 153,144; Mar. 14.
- Corona Rubber Manufacturing Co., Philadelphia, Pa. Golf balls. No. 154,909; May 16.
- Corona Typewriter Company, Inc., Groton, N. Y. Instruction books and charts for teaching typewriting. No. 150,782; Jan. 10.
- Corona Typewriter Company, Inc., Groton, N. Y. Magazines published monthly. No. 153,431; Mar. 21.
- Coronet Phosphate Company, New York, N. Y. Pebble phosphate. No. 162,219; Dec. 12.
- Corrugated Bar Company, Inc., Buffalo, N. Y. Metal rods, bars, stirrups, hoops, etc., for reinforcing concrete. No. 150,312; Jan. 3.
- Corset Artistic, Inc., Jackson and Marshall, Mich. Certain articles of clothing. No. 157,807; Aug. 15.
- Corset Supply House, The, New York, N. Y. Brassières and diaphragm supporters. No. 151,723; Feb. 14.
- Cortland Line Co. Inc., Cortland, N. Y. Braided silk fishing lines. No. 156,948; July 18.
- Cortland Line Co. Inc., Cortland, N. Y. Japan-silk fishing lines. No. 156,949; July 18.
- Cortland Line Co. Inc., Cortland, N. Y. Braided enameled Japan-silk fishing lines. Nos. 156,950-1; July 18.
- Cortland Line Co. Inc., Cortland, N. Y. Braided Japan-silk enameled fishing lines. No. 156,952; July 18.
- Cortland Line Co. Inc., Cortland, N. Y. Enameled Japan-silk fishing lines. No. 156,953; July 18.
- Cortland Line Co. Inc., Cortland, N. Y. Cuttyhunk bass and tarpon fishing lines. No. 156,954; July 18.
- Cortland Line Co. Inc., Cortland, N. Y. Surfman's cuttyhunk fishing lines. No. 156,955; July 18.
- Cortland Line Co. Inc., Cortland, N. Y. Cuttyhunk fishing lines. No. 156,956; July 18.
- Cortland Line Co. Inc., Cortland, N. Y. Irish-linen braided cuttyhunk fishing lines. No. 156,957; July 18.
- Cortland Line Co. Inc., Cortland, N. Y. Braided enameled Japan-silk fishing lines. No. 159,613; Sept. 26.
- Cortland Line Co. Inc., Cortland, N. Y. Braided cotton fishing lines. No. 160,159; Oct. 17.
- Cortland Line Co. Inc., Cortland, N. Y. Japan-silk waterproof fishing lines. No. 160,160; Oct. 17.
- Cortland Line Co. Inc., Cortland, N. Y. Enameled Japan-silk fishing lines. Nos. 160,161-2; Oct. 17.
- Cortland Line Co. Inc., Cortland, N. Y. Oiled-silk fishing lines. No. 160,163; Oct. 17.
- Cortland Line Co. Inc., Cortland, N. Y. Braided Japan-silk enameled fishing lines. No. 160,164; Oct. 17.
- Cortland Line Co. Inc., Cortland, N. Y. Pure-silk fishing lines. No. 160,165; Oct. 17.
- Cortland Line Co. Inc., Cortland, N. Y. Pure Japan-silk fishing lines. No. 160,166; Oct. 17.
- Cortland Line Co. Inc., Cortland, N. Y. Enameled Japan-silk fishing lines. Nos. 160,425-6; Oct. 24.
- Cortland Line Co. Inc., Cortland, N. Y. Hard braided waterproof silk fishing lines. No. 160,427; Oct. 24.
- Cortland Line Co. Inc., Cortland, N. Y. Fishing lines. Nos. 160,428-32; Oct. 24.
- Cortland Line Co. Inc., Cortland, N. Y. Japan-silk fishing lines. Nos. 160,433-4; Oct. 24.
- Cortland Line Co. Inc., Cortland, N. Y. Fishing lines. No. 160,435; Oct. 24.
- Cortland Line Co. Inc., Cortland, N. Y. Japan hard braid silk fishing lines. No. 161,103; Nov. 7.
- Cortland Line Co. Inc., Cortland, N. Y. Japan-silk fishing lines. No. 161,931; Nov. 28.

Alphabetical list of registrants of trade-marks—Continued.

- Cortland Line Co. Inc., Cortland, N. Y. Braided enameled Japan-silk fishing lines. No. 162,634; Dec. 19.
- Cortland Line Co. Inc., Cortland, N. Y. Enameled Japan-silk fishing lines. No. 162,709; Dec. 26.
- Cosgrove Brothers, Inc., Milton and East Milton, Mass. Dolls. No. 157,914; Aug. 22.
- Cosgrove Brothers, Inc., Milton and East Milton, Mass. Petticoats and bloomers. No. 161,443; Nov. 14.
- Cosgrove and Company, Johnstown, Pa. Bituminous coal. No. 153,923; Mar. 28.
- Cosin, Joseph J., New York, N. Y. Powder puffs. No. 151,025; Jan. 10.
- Cosin, Joseph J., New York, N. Y. Powder puffs. Nos. 151,108-9; Jan. 24.
- Cosmorama Pictures Corporation, The, Dover, Del., and New York, N. Y. Motion-picture films. No. 150,783; Jan. 10.
- Cosmos Trading Company. (See Klemperer, Gustav.)
- Costa, Joseph S., New York, N. Y. Malt sirup for food purposes. No. 153,688; Mar. 28.
- Cotaroid Company, The, New York, N. Y. Artificial leather. No. 151,724; Feb. 14.
- Coto-Coll Company, Providence, R. I., and Boston, Mass. Certain electrical devices. No. 155,655; June 6.
- Cottage Cigar Co., The, Columbus, Ohio. Cigars and stogies. No. 154,007; Apr. 4.
- Cott-A-Lap Company, Somerville, N. J. Floor coverings. No. 152,376; Feb. 28.
- Cotton, Leonard M., Boston, Mass. Motor-vehicle trailers, bodies for automobiles and motor trucks. No. 155,883; June 6.
- Cotton, Leonard M., Boston, Mass. Motor-vehicle trailers, bodies for automobiles and motor trucks. No. 155,885; June 6.
- Cotton States Hosiery Mills, The, Chattanooga, Tenn. Underwear of all kinds. No. 157,034; July 25.
- Coty, Francois J. de S., Suresnes, France. Face-powder. No. 151,463; Feb. 7.
- Coulter Mfg. Co. (See Schmidt, Charles E.)
- Council, James R., Norfolk, Va. Bluing. No. 155,656; June 31.
- Counord, Joseph, Talence, near Bordeaux, France. Tonic wine used for anemia, convalescence, low vitality, and as a general tonic. No. 159,858; Oct. 10.
- Count, Charles F., Chicago, Ill. Automobile and furniture polish. No. 162,486; Dec. 19.
- Covalt and Smith, Pittsburgh, Pa. Hair cream. No. 162,152; Dec. 5.
- Coveland Orchards, Greensboro, N. C. Apples, fresh, dried, or canned. No. 160,436; Oct. 24.
- Covell, William J., San Francisco, Calif. Venereal syringe. No. 153,689; Mar. 28.
- Covina Orange Growers Association, Covina, Calif. Fresh citrus fruits—namely, oranges. No. 154,783; May 9.
- Covina Orange Growers Association, Covina, Calif. Oranges. No. 155,657; June 6.
- Covina Orange Growers Association, Covina, Calif. Fresh oranges. No. 156,221; June 20.
- Cowdrey, Harry C., New York, N. Y. Pamphlets and bound publications. No. 150,784; Jan. 10.
- Cowdrey, Harry C., New York, N. Y. Certain articles of stationery. No. 151,110; Jan. 24.
- Cox, Frederick N., Berkeley and San Francisco, Calif. Surgical tool comprising a lancet mounted in a magazine handle. No. 154,256; Apr. 11.
- Cox, Rupert, Kansas City, Mo. Visible measuring gasoline-dispensing pumps and attachments for gasoline-measuring dispensing pumps. No. 155,147; May 16.
- Cozy Baby Carriage Company, Minneapolis, Minn. Baby carriages, baby-carrying baskets or bodies, and automobile baby carriers. No. 160,437; Oct. 24.
- Crabtree, J. A., & Co. Ltd., Birmingham, England. Certain electrical apparatus. No. 156,652; July 11.
- Cracker Jack Co., The. (See Rueckheim Bros. & Eckstein, assignors.)
- Craddock-Terry Company, Lynchburg, Va. Children's shoes. No. 155,948; June 13.
- Craddock-Terry Company, Lynchburg, Va. Men's and boys' shoes. No. 157,035; July 25.
- Craddock-Terry Company, Lynchburg, Va. Women's leather shoes. No. 158,924; Sept. 19.
- Craddock-Terry Company, Lynchburg, Va. Women's and children's shoes of leather or of a combination of leather, rubber, or fabric. No. 161,104; Nov. 7.
- Craft and Newton, Incorporated, Providence, R. I. Certain articles of jewelry. No. 152,730; Mar. 7.
- Craig, Clinton D., Whitefield, N. H. Medicinal preparation for external and internal inflammation. No. 161,105; Nov. 7.
- Craig Golfmeter Co., San Francisco, Calif. Captive-ball device for playing and practice of games—namely, golf. No. 154,910; May 16.
- Craig Manufacturing Co., Ensley, Ala. Breather plugs for internal-combustion engines. No. 153,145; Mar. 14.
- Cramer, G., Dry Plate Company. (See Cramer, Gustav, assignor.)
- Cramer, Gustav, St. Louis, Mo., assignor to G. Cramer Dry Plate Company. Photographic plates and films. No. 20,185; renewed Oct. 6, 1921.
- Cramer, Gustav, St. Louis, Mo., assignor to G. Cramer Dry Plate Company. Photographic plate or films. No. 20,186; renewed Oct. 6, 1921.
- Cramer, Gustav, St. Louis, Mo., assignor to G. Cramer Dry Plate Company. Photographic plates and films. No. 20,254; renewed Oct. 27, 1921.
- Crandall, Bruce V., Chicago, Ill. Magazine published monthly. No. 158,925; Sept. 19.
- Crandall Pettet Co., The, New York, N. Y. Ice-cream powder. No. 158,644; Sept. 12.
- Crane Company, Chicago, Ill. Certain valves, cocks, pipe fittings, boiler, engine, and bathroom trimmings, and plumbing supplies. No. 155,886; June 6.
- Crane Packing Company, Chicago, Ill. Metallic packing. No. 156,508; June 27.
- Crassopoulos, G. C., New York, N. Y. Beans, sugar, food oils, rice, etc. No. 151,729; Feb. 14.
- Craven & Love, Pittsburgh, Pa. File remedy. No. 157,915; Aug. 22.
- Craw, George R., Fort Wayne, Ind. Refrigerators. No. 157,916; Aug. 22.
- Crawford-Wilsey Co., Lynn, Mass. Wooden figures of animals. No. 157,917; Aug. 22.
- Crazy Well Water Company of Mineral Wells, Mineral Wells, Tex. Concentrated natural mineral water. No. 150,314; Jan. 3.
- Cream of Chocolate Company of America, Danvers, Mass. Chocolate and cocoa. No. 162,427; Dec. 12.
- Cream of Chocolate Company of America, Danvers, Mass. Chocolate and cocoa. No. 162,635; Dec. 19.
- Creamery Package Mfg. Company, The, Chicago, Ill. Silos. No. 151,322; Jan. 31.
- Creamery Package Mfg. Company, The, Chicago, Ill. Egg-case fillers. No. 158,926; Sept. 19.
- Creger, Henry N., doing business as Red Gum Products Co., San Francisco, Calif. Dental preparations. No. 161,106; Nov. 7.
- Cremint Co., New York, N. Y. Mint candy and mint tablets. No. 159,319; Sept. 26.
- Creo-Dipt Company, Inc., North Tonawanda, N. Y. Nails. No. 161,444; Nov. 14.
- Crescent Bed Co. Ltd., New Orleans, La. Beds, cribs, bed springs, cots, mattresses. No. 162,710; Dec. 26.
- Crescent Belt Fastener Company, New York, N. Y. Fasteners, plates, etc., for machinery belting. No. 154,911; May 16.
- Crescent Belt Fastener Company, New York, N. Y. Fasteners, plates, clamps, and rivets for machinery belting. No. 156,509; June 27.
- Crescent Belt Fastener Company, New York, N. Y. Belt dressing. No. 159,614; Sept. 26.
- Crescent Braid Co. Inc., Providence, R. I. Shoe laces. No. 155,658; June 6.
- Crescent Company, New York, N. Y. Sweaters, bathing suits, knitted jackets, etc. No. 157,658; Aug. 15.
- Crescent Company, The, Tarr, Pa. Unsweetened evaporated milk. No. 159,320; Sept. 26.
- Crescent Oil Company, Indianapolis, Ind. Lubricating oils. No. 159,323; Sept. 26.
- Crescent Refractories Company, Curwensville, Pa. Fire brick and tile for metallurgical furnaces. Nos. 156,589-9; July 4.
- Crescent Watch-Case Company, Newark, N. J., assignor to The Keystone Watch Case Company. Watchcases. Nos. 22,382-3; renewed Jan. 31, 1923.
- Crest Net Company, Inc., The, New York, N. Y. Hair nets. No. 157,659; Aug. 15.
- Crex Carpet Company, New York, N. Y. Grass carpets and rugs. No. 156,222; June 20.
- Cribari, B., & Sons, San Jose, Calif. Fresh grapes and vegetables. No. 162,711; Dec. 26.
- Crim, Otis P., trading as Dairy-Maid Baking Powder Company, Anderson, Ind. Baking powder. No. 157,484; Aug. 8.
- Criswell Candy Company, Chicago, Ill. Candy. No. 154,523; Apr. 18.
- Croce, F. D., & Co., New York, N. Y. Paper bags. No. 152,732; Mar. 7.
- Crocker, F. B., Postoria, Ohio. Antiseptic for teeth, sores, throat wash, and douches. No. 157,320; Aug. 1.
- Crocker Pen Company, Everett, Mass. Writing ink. No. 158,203; Aug. 29.
- Crocker-Sprague Co., Dunkirk, N. Y. Coffee, cocoa, spices, and tea. No. 162,057; Dec. 5.
- Crofts & Reed Co., Chicago, Ill. Laundry soap. No. 156,482; June 20.
- Crofts & Reed Co., Chicago, Ill. Toilet and laundry soaps. No. 157,412; Aug. 1.
- Crofts & Reed Co., Chicago, Ill. Toilet soaps. No. 159,321; Sept. 26.
- Crofts & Reed Co., Chicago, Ill. Toilet soaps. No. 162,487; Dec. 19.
- Croker Packing Co., San Francisco, Calif. Table sirup. No. 156,855; July 18.
- Crook, Wilson W., Dallas, Tex. Periodical publication. No. 153,432; Mar. 21.
- Crooks, Harold, doing business as Verso-Tone Medicine Co., Terre Haute, Ind. Certain medicinal and pharmaceutical preparations. No. 159,322; Sept. 26.
- Crosbie, James. (See Crosbie, Matthew.)
- Crosbie, Matthew, doing business as James Crosbie & Son, New York, N. Y. Linen and cotton goods. No. 158,927; Sept. 19.
- Crosfield, Joseph, & Sons, Limited, Warrington, England. Bleaching and water-softening preparation. No. 161,445; Nov. 14.

- Cross, Henry H., Company, Chicago, Ill. Gasoline, naphtha, fuel oils, kerosene, etc. No. 158,418; Sept. 5.
- Cross Rod & Tackle Co., Lynn, Mass. Shafts for golf clubs. No. 150,315; Jan. 3.
- Crossett-Barton Company, Chatteroy, Wash. Aromatic fillings for pillows, cushions, mattresses, etc. No. 155,659; June 6.
- Crossley Motors, Limited, Manchester, England. Motor cars. No. 159,859; Oct. 10.
- Crown Brewing Co. Inc., The, Cincinnati, Ohio. Non-intoxicating, malt, cereal, and hop beverage. No. 158,419; Sept. 5.
- Crown Corset Company, The, New York, N. Y. Corsets. No. 151,111; Jan. 24.
- Crown Margarin Company, Inc., St. Louis, Mo. Evaporated milk. No. 157,660; Aug. 15.
- Crown Oil & Wax Co. of Delaware, Baltimore, Md. Gasoline and fuel oils. No. 154,912; May 16.
- Crown Remedy Company, Dallas, Tex. Medicine for catarrhal conditions. No. 152,143; Feb. 21.
- Crown Remedy Company, Dallas, Tex. Certain medicinal preparation. No. 152,144; Feb. 21.
- Crown Remedy Company, Dallas, Tex. Antiseptic lotion. No. 152,145; Feb. 21.
- Crown Remedy Company, Dallas, Tex. Healing ointment. No. 152,146; Feb. 21.
- Crown Supply Company Inc., New York, N. Y. Hair tonic and dandruff remedies. No. 154,257; Apr. 11.
- Crown Supply Company, Inc., New York, N. Y. Toilet waters and creams, cold cream, cucumber and almond cream, and face powder. No. 155,660; June 6.
- Crown Supply Company Inc., assignor to Blue Bird Inc., Perfumers, New York, N. Y. Dental cream, paste, powder, and liquid cleaner. No. 161,107; Nov. 7.
- Crown Willamette Paper Company, San Francisco, Calif. Paper bags. No. 150,316; Jan. 3.
- Crozer, John P., doing business as Samuel A. Crozer & Son, Upland, Pa. Cotton piece goods. No. 157,918; Aug. 22.
- Crozer, Samuel A., & Son. (See Crozer, John P.)
- Crupain, Morris, New York, N. Y. Powder puffs. No. 153,690; Mar. 28.
- Crupain, Morris, Newark, N. J. Powder puffs. No. 156,223; June 20.
- Cruzen-Allegretti Co., Chicago, Ill. Candies. No. 152,377; Feb. 28.
- Crystal Chemical Company, Incorporated, The, New York, N. Y. Certain toilet preparations. No. 155,661; June 6.
- Crystal Creamed Ice Machine Co., Los Angeles, Calif., and Cincinnati, Ohio. Machines for powdering ice. No. 161,762; Nov. 21.
- Crystal Soap & Chemical Co., Philadelphia, Pa. Liquid, etc., soaps, soap cakes, and flakes. No. 152,733; Mar. 7.
- Crystal Soda Water Works. (See Gibson, William J.)
- Cudahy Packing Company, The, Chicago, Ill. Shredded soap. No. 151,455; Feb. 7.
- Cudahy Packing Company, The, Chicago, Ill. Soap. No. 162,220; Dec. 12.
- Cullinan, Harry H., Flats, Nebr. Stock gestation compound. No. 151,456; Feb. 7.
- Culp, Abraham, New York, N. Y. Phonograph cabinets. No. 151,725; Feb. 14.
- Culp, George K., Inc., Wilmington, Del., and New York, N. Y. Vehicle tires wholly or partly of rubber. No. 159,860; Oct. 10.
- Cumberland Tobacco Works, Inc., Nashville, Tenn. Plug tobacco. No. 154,913; May 16.
- Cunningham, A., Limited, Stewarton, Scotland. Coats, caps, bonnets, hats, gloves, hosiery, etc. No. 157,037; July 25.
- Cunningham, Edward H., San Antonio, Tex. General tonic. No. 157,321; Aug. 1.
- Cunningham, R. G., Oil Co., Miami, Okla. Illuminating and lubricating oils and greases. No. 162,221; Dec. 12.
- Cuno Engineering Corporation, The, Meriden, Conn. Electric lamps, starting, and ignition devices for gas engines, etc. No. 151,457; Feb. 7.
- Cupid Beauty Company, New York, N. Y. Certain toilet preparations. No. 152,147; Feb. 21.
- Cupid Underwear Company, Inc., Walden, N. Y. Woven silk underwear for women and misses. No. 151,726; Feb. 14.
- Cupples Company Manufacturers, St. Louis, Mo. Toilet paper. No. 153,580; Mar. 21.
- Cupples Company Manufacturers, St. Louis, Mo. Rubber tires. No. 160,438; Oct. 24.
- Cupples Company Manufacturers, St. Louis, Mo. Rubber jar rings. No. 160,439; Oct. 24.
- Curd and Blakemore Co. Inc., Louisville, Ky. Table sirups. No. 150,317; Jan. 3.
- Curlox Company. (See Krueger, Albert A.)
- Curry, Angus T., Washington, D. C. Rat poison. No. 156,117; June 13.
- Curry, John, Fall River, Mass. Chocolate humidor. No. 154,008; Apr. 4.
- Curtis Corporation, The, Long Beach, Calif. Canned ripe olives, artichokes, tuna fish, pimentos, etc. No. 156,510; June 27.
- Curtis, George W., jr., doing business as General Beverage Manufacturers Co., Cleveland, Ohio. Nonintoxicating beverages. No. 162,488; Dec. 19.
- Curtis Manufacturing Company, Los Angeles, Calif. Steam cooking kettles. No. 156,856; July 18.
- Curtiss Aeroplane and Motor Corporation, Buffalo and Garden City, N. Y. Airplanes. No. 153,146; Mar. 14.
- Curtiss Aeroplane and Motor Corporation, Buffalo and Garden City, N. Y. Airplanes. No. 157,038; July 25.
- Curtiss Candy Co., Chicago, Ill. Candy. No. 150,318; Jan. 3.
- Curtiss Candy Co., Chicago, Ill. Chocolate-coated peanut candy having a marshmallow center. No. 151,727; Feb. 14.
- Curtiss Candy Co., Chicago, Ill. Candy. No. 154,524; Apr. 18.
- Curtiss Candy Co., Chicago, Ill. Bar containing a fudge body covered first by marshmallow and then icing. No. 156,653; July 11.
- Curtze, Antoine, Erie, Pa. Coffee. No. 151,728; Feb. 14.
- Cushing, J. Co., Fitchburg, Mass. Wheat feed, stock feed, balanced ration. No. 152,055; Feb. 14.
- Cushman-Hollis Co., Auburn, Me. Rubber soles attached to boots and shoes with canvas uppers. No. 154,525; Apr. 18.
- Cutler-Hammer Mfg. Co., The, Milwaukee, Wis. Attachment plugs. No. 160,849; Oct. 31.
- Cutler-Magner Co., Duluth, Minn. Block salt. No. 150,319; Jan. 3.
- Cutter Electrical and Manufacturing Company, The, Philadelphia, Pa. Electric switches and circuit breakers. No. 150,785; Jan. 10.
- Cuzalina, Tony J., Hartshorne, Okla. Medicine for coughs and colds. No. 161,108; Nov. 7.
- Cyclemotor Corporation, Rochester, N. Y. Power-driven bicycles. No. 152,578; Feb. 28.
- Cyclone Rat Destroyer Company. (See Reilly, Blair B.)
- D. A. Newcomer Company, Los Angeles, Calif. Trailers for motor vehicles. No. 160,442; Oct. 24.
- D. & C. Specialty Co. (See Davey, Wesley C.)
- D. & M. Healing Salve Co., The. (See De Laporte, Peter A.)
- D-Rex-U Safety Signal Company, Kansas City, Mo. Electrically-operated visible traffic signals for use on automotive vehicles. No. 158,427; Sept. 5.
- Daarnhouwer & Co. Inc., New York, N. Y. Cocoa butter. No. 156,857; July 18.
- Dadd & Ladd Trouser Company, Davenport, Iowa. Trousers and pants. No. 157,039; July 25.
- Dae Health Laboratories. (See International Consolidated Chemical Corporation.)
- Daemen-Schmid, Heinrich, Uster, Switzerland. Certain calculating, adding, and other scientific machines and appliances. No. 162,489; Dec. 19.
- Daggett, E. P. Canning Co., Coopersville, Mich. Irish stew. No. 152,378; Feb. 28.
- Dahl, H. G., Oakland, Calif. Hand soap. No. 150,320; Jan. 3.
- Dahl, H. G., Oakland, Calif. Soap. No. 151,730; Feb. 14.
- Dainty Dabs Importing Corp., New York, N. Y. Perfumes. No. 152,734; Mar. 7.
- Dairy Association Co. Inc., Lyndonville, Vt. Medicinal preparation. No. 154,770; May 2.
- Dairy Association Co. Inc., Lyndonville, Vt. Certain medicinal preparation for cows. No. 157,486; Aug. 8.
- Dairy Laboratories, The, Philadelphia, Pa. Antiseptics and deodorizers. No. 153,691; Mar. 28.
- Dairy Laboratories, The, Philadelphia, Pa. Chlorine solution, fly spray, sour-milk-testing solution, antiseptic, etc. No. 155,662; June 6.
- Dairy-Maid Baking Powder Company. (See Crim, Otis P.)
- Dairymen's League Co-Operative Association, Inc., Utica, N. Y. Butter, condensed and evaporated milk. No. 153,581; Mar. 21.
- Dairymen's League Co-Operative Association, Inc., Utica, N. Y. Butter, condensed and evaporated milk. No. 156,858; July 18.
- Dairymen's League Co-Operative Association, Inc., Utica, N. Y. Butter, condensed and evaporated milk, and ice cream. No. 161,446; Nov. 14.
- Daisy Whitehead Knitting Co., New York, N. Y. Hosiery. No. 151,112; Jan. 24.
- Daisy Whitehead Knitting Co., New York, N. Y. Hosiery. No. 158,928; Sept. 19.
- Dakota Compound Company, Pierre, S. Dak. Compound for preventing scale and rust. No. 154,260; Apr. 11.
- Dalb, Thomas, Company, The, Watertown, Mass. Certain articles of clothing. No. 157,919; Aug. 22.
- Dallas Ice Factory, Dallas, Tex. Ice. No. 159,862; Oct. 10.
- Dalton, C. J., Company. (See Dalton, Charles J.)
- Dalton, Charles J., doing business as C. J. Dalton Company, New York, N. Y. Rubber tires. No. 159,863; Oct. 10.
- Dalton Manufacturing Corporation, Sound Beach, Conn. Turning lathes. No. 157,040; July 25.
- Daly, Flora P., assignor to Dime Cafeteria, Mansfield, Ohio. Pastry and certain canned goods. No. 152,379; Feb. 28.
- Daly, John J., Brockton, Mass. Leather shoes. No. 150,321; Jan. 3.
- Daly Manufacturing Company, Inc., The, Los Angeles, Calif. Automobile wheel rims and certain rim attachments. No. 151,295; Jan. 24.

Alphabetical list of registrants of trade-marks—Continued.

- Dampney Company of America, The, Boston, Mass. Protective paint coatings. Nos. 158,645-6; Sept. 12.
- Danschinsky, Carl, New York, N. Y. Hair dyes. No. 150,322; Jan. 3.
- Daniel, I., & Sons, New York, N. Y. Knitting and crocheting artificial silk, threads, and yarns. No. 162,712; Dec. 26.
- Daniels and Fisher Stores Company, The, Denver, Colo. Face rouge. No. 159,686; Oct. 3.
- Danjean, Sidney J., Franklin, La. Preparation for use in cleaning the hands. No. 152,735; Mar. 7.
- Dank, M. Carlton, doing business as M. Carlton Dank & Co., Brooklyn, N. Y. Toy-making outfits. No. 160,340; Oct. 17.
- Dank, M. Carlton, & Co. (See Dank, M. Carlton.)
- D'Anna, John, New York, N. Y. Medicine for general tonic purposes, especially for rheumatism. No. 153,420; Sept. 5.
- Dantzier, Mortimer O., Orangeburg, S. C. Table sirup. No. 156,859; July 18.
- Danzer, Frederick P., Racine, Wis. Fishing rods. No. 160,341; Oct. 17.
- Dare, Arthur, Philadelphia, Pa. Hemoglobinometers and hemocallimeters. No. 153,433; Mar. 21.
- Darling Valve & Manufacturing Company, Williamsport, Pa. Certain valves and unions and indicator posts, floor stands, etc. No. 154,914; May 16.
- Darrieel, Benjamin F., doing business as Le Pinx Laboratories, Springfield, Ill. Skin-cleansing and toilet creams, toilet powders, shampoos, etc. No. 158,929; Sept. 19.
- Darvas, Helena, Chicago, Ill. Eye medicine. No. 152,736; Mar. 7.
- Darwin, Harry G., Lewiston, Idaho. Fresh fruits and vegetables. No. 161,692; Nov. 14.
- Darwin & Milner, Inc., New York, N. Y. Certain metal tools for cutting and forming. No. 151,459; Feb. 7.
- Dasco Import Co., Inc., New York, N. Y. Smoking pipes, cigar and cigarette holders, pipe cleaners, etc. No. 161,447; Nov. 14.
- Dash, Allan J., Company Inc., Rochester, N. Y. Medicine. No. 153,692; Mar. 28.
- Daubenspeck Chain Company, Butler, Pa. Vehicle wheel and tire chains. No. 156,511; June 27.
- Daugherty, George S., Blue River, Wis. Spark plugs. No. 152,737; Mar. 7.
- Davenport Hosiery Mills, Chattanooga, Tenn. Knitted, cloth, and woven underwear for men, ladies, and children. No. 161,448; Nov. 14.
- Davey Tree Expert Company, The, Kent, Ohio. Chemical composition of matter for dressing tree wounds. No. 150,323; Jan. 3.
- Davey Tree Expert Company, The, Kent, Ohio. Fertilizers. No. 162,428; Dec. 12.
- Davey, Wesley C., doing business as D. & C. Specialty Co., Hazleton, Pa. Powder insecticide. No. 157,322; Aug. 1.
- David B. Edmund, Inc., New York, N. Y. Broad silks and dress satins, crêpe and silk shirtings in the piece. No. 155,218; May 23.
- David, John, New York, N. Y. Men's hats, overcoats, suits, raincoats, sweaters, etc. No. 160,167; Oct. 17.
- Davidson, Laura K., Los Angeles, Calif. Hand-painted china. No. 152,738; Mar. 7.
- Davidson, Latham A., West Milford, W. Va., assignor to The Ray-Vin Medicine Co. Specific for cholera infantum. No. 20,985; renewed Apr. 19, 1922.
- Davies, Charles T., Reading, Pa. Hosiery. No. 161,109; Nov. 7.
- Davies, Rose & Co., Ltd., Boston, Mass. Nonalcoholic, maltless flavoring for making beverages. No. 156,224; June 20.
- Davies, Rose & Co., Ltd., Boston, Mass. Nonalcoholic, maltless flavoring for making beverages. No. 156,225; June 20.
- Davies Shoe Manufacturing Co., Racine, Wis. Men's and children's shoes. No. 162,490; Dec. 19.
- Davies-Young Soap Company, The, Dayton, Ohio. Certain soap and cleansers. No. 157,661; Aug. 15.
- Davies-Young Soap Company, The, Dayton, Ohio. Wet-cleaning soap. No. 157,662; Aug. 15.
- Daving, Joseph, New York, N. Y. Watches. No. 152,739; Mar. 7.
- Davis, Abraham M., Chicago, Ill. Medicine (a yeast laxative). No. 156,226; June 20.
- Davis-Bournonville Company, New York, N. Y., and Jersey City, N. J. Cast-iron welding sticks or rods. No. 150,786; Jan. 10.
- Davis, Ethel E., Boston, Mass. Liniment for rheumatism. No. 158,204; Aug. 29.
- Davis, H. E. Co., Freeport, Me. Leather shoes. No. 153,582; Mar. 21.
- Davis, Horace W., New York, N. Y. Certain toilet preparations. No. 150,324; Jan. 3.
- Davis, James S., Chicago, Ill. Blood tonic. No. 155,663; June 6.
- Davis, Louisiana M., Glencoe, Ill. Dolls and toy figures. No. 160,168; Oct. 17.
- Davis, Loyal E., Seattle, Wash. Waterproof dressing for automobile tops, leather, and textiles. No. 151,731; Feb. 14.
- Davis, Michael J., Brooklyn, N. Y. Mopping powder used for cleaning granite, glassware, etc. No. 157,663; Aug. 15.
- Davis-Pope Company Inc., Norwalk, Conn. Men's and women's hats. No. 156,227; June 20.
- Davis, Sam, Indianapolis, Ind. Beverage sold as a soft drink and sirup for making the same. No. 157,920; Aug. 22.
- Davis, Samuel P., Little Rock, Ark. Cattle and stock feed. No. 152,380; Feb. 28.
- Davis, Samuel P., Little Rock, Ark. Cattle and stock feed. Nos. 152,740-1; Mar. 7.
- Davis-Smith Company, The, Boston, Mass. Certain cards and publications. No. 162,223; Dec. 12.
- Davis, W. A. W., Corp., Newark, N. J. Felt-base floor coverings, linoleum, oil-cloth fabrics or floors, and oil cloths. Nos. 150,325-6; Jan. 3.
- Davis, W. B., & Son, Fort Payne, Ala. Hosiery. No. 161,449; Nov. 14.
- Davis, Walter M., doing business as D. S. Co., Coeur d'Alene, Idaho. Preparation for the relief of dyspepsia, indigestion, gas, etc. No. 157,257; July 25.
- Davis, William D., Lansford, Pa. Ointment. No. 155,887; June 6.
- Davis, Wm. D., doing business as Standard Medical Company, Lansford, Pa. Ointment for the treatment of rheumatism and neuralgic pain. No. 158,421; Sept. 5.
- Davidson, Henry C., New York, N. Y. Impression paper. No. 21,868; renewed Oct. 18, 1922.
- Dawes, John L., Pittsburgh, Pa. Electrically-illuminated signs. No. 152,579; Feb. 28.
- Dawn Films, Inc., Los Angeles, Calif. Moving-picture films. No. 154,261; Apr. 11.
- Day, Adra L., doing business as Ideal Baby Shoe Company, Danvers, Mass. Shoes, slippers, and moccasins. No. 157,921; Aug. 22.
- Day, James B., & Co., Chicago, Ill. Paint enamels, prepared shellacs, varnishes, engine enamels, etc. No. 158,930; Sept. 19.
- Day, Matilda, doing business as William J. Day & Co., Boston, Mass. Hardwood floors. No. 159,687; Oct. 3.
- Day, Robert L. G., Spokane, Wash. Rope machines. No. 154,262; Apr. 11.
- Day, Son & Hewitt, Limited, London, England. Blood purifiers, tonics, and conditioners for horses, cows, sheep, etc. No. 158,931; Sept. 19.
- Day, William J., & Co. (See Day, Matilda.)
- Dayton Color Works Company, Dayton, Ohio. Barn paint. No. 151,026; Jan. 10.
- Dayton Color Works Company, The, Dayton, Ohio. Flat wall paint. No. 153,434; Mar. 21.
- Dayton Color Works Company, The, Dayton, Ohio. House paint. No. 154,263; Apr. 11.
- Dayton Color Works Company, The, Dayton, Ohio. Black ready-mixed paint. No. 154,915; May 16.
- Dayton Company, The, Minneapolis, Minn. Golf balls. No. 158,647; Sept. 12.
- Dayton Fan and Motor Company, The, Dayton, Ohio. Electric fan motors and fractional horsepower motors. No. 161,012; Oct. 31.
- Dayton Ignition Company, The, Dayton, Ohio. Spark plugs. No. 156,654; July 11.
- Dayton Pump & Manufacturing Company, The, Certain named electrical apparatus. No. 156,797; July 11.
- Dayton Pump & Manufacturing Company, The, Dayton, Ohio. Certain electrical apparatus. No. 158,422; Sept. 5.
- Dayton Rubber Manufacturing Co., The, Dayton, Ohio. Rubber tires and tubes. No. 151,732; Feb. 14.
- Dayton Spice Mills Co., The, Dayton, Ohio. Roasted coffee. No. 154,751; Apr. 18.
- Deagan, J. C., Inc., Chicago, Ill. Xylophones. No. 151,381; Jan. 31.
- Dearborn Company, The, Chicago, Ill. Ironing boards. No. 152,742; Mar. 7.
- Dearborn Publishing Company, Dearborn, Mich. Weekly publication. No. 157,487; Aug. 8.
- Dearborn Publishing Company, Dearborn, Mich. Weekly publication. No. 159,325; Sept. 26.
- Dearborn Supply Company, Chicago, Ill. Depilatory. No. 155,403; May 30.
- Dearborn Trunk & Bag Co., Chicago, Ill. Hand bags, suitcases, trunks. No. 162,713; Dec. 26.
- De Bellegarde, Federico, New York, N. Y. Marble and stone. No. 154,009; Apr. 4.
- Debenedetti, John L., San Francisco, Calif. Fresh artichokes. No. 162,224; Dec. 12.
- De Bevoise, Chas. R., Co., Newark, N. J. Brassières. No. 160,169; Oct. 17.
- De Bevoise, Chas. R., Co., Newark, N. J. Bandeaux. No. 160,170; Oct. 17.
- De Bevoise, Chas. R., Co., Newark, N. J. Brassières. No. 161,450; Nov. 14.
- Decatur Brewing Company, Decatur, Ill. Malt extract used as a food product. No. 150,327; Jan. 3.
- Decatur Brewing Company, Decatur, Ill. Hops. No. 153,148; Mar. 14.
- Decker, Jacob E., & Sons, Mason City, Iowa. Sausage, potted meat, corned-beef hash, and cereal. No. 151,733; Feb. 14.
- Decker Manufacturing Company. (See Estate of A. C. Decker.)
- Decoater Company, The, Chicago, Ill. Toothbrushes. No. 160,444; Oct. 24.
- Decombe-Cook, Rose, Portland, Me. Healing and beautifying paste. No. 155,317; May 23.

- Decora Manufacturing Co., Richmond, Calif. Air-brush plants. No. 152,744; Mar. 7.
- Decy Iceless Express Container Co. Inc., New York, N. Y. Shipping containers. No. 150,328; Jan. 3.
- De Danske Mejeri-foreningers Maelke-Export, Aarhus, Denmark. Milk products—namely, sterilized and condensed milk, cream, and dried milk. No. 156,228; June 20.
- Dee, David G., Chicago, Ill. Electric automatic fire detectors. No. 151,460; Feb. 7.
- Deep River Mills, Inc., Randleman, N. C. Gingham in the piece. No. 161,451; Nov. 14.
- Deere & Company, Moline, Ill., assignor to Deere & Company. Plows. No. 20,974; renewed Apr. 12, 1922.
- Defender Photo Supply Company, Inc., Rochester, N. Y. Sensitized photographic paper. No. 152,745; Mar. 7.
- Defender Photo Supply Company, Inc., Rochester, N. Y. Photographic chemicals and chemical preparations. No. 155,664; June 6.
- Defender Photo Supply Company, Inc., Rochester, N. Y. Photographic paper. No. 157,041; July 25.
- Defiance Manufacturing Company, New York, N. Y. Calendars. No. 158,338; Aug. 29.
- Defiance Manufacturing Company, New York, N. Y. Calendars. No. 159,326; Sept. 26.
- Defiance Welding Company, The, Defiance, Ohio. Acid-resisting garments formed of rubberized cloth. No. 157,922; Aug. 22.
- De Forest Radio Telephone and Telegraph Company, New York, N. Y. Motion-picture films, cameras, projecting and talking moving-picture machines. Nos. 152,381-2; Feb. 28.
- De Forest Radio Telephone and Telegraph Company, New York, N. Y. Inductance coils, wadding coils, etc., wireless telephone apparatus, and wireless telegraph apparatus. No. 160,092; Oct. 10.
- Degen-Lipp, Inc., Brooklyn, N. Y. Shoes of leather, canvas, or a combination of both materials. No. 156,229; June 20.
- De Grauw, Aymar & Company, New York, N. Y. Oars, handspikes, and capstan bars. No. 154,010; Apr. 4.
- Deiglmayr, Dr. Ivo, Chemische Fabrik, Munich, Germany. Remedy against gall stones, liver complaint, etc. No. 152,148; Feb. 21.
- De Klyn Candy Co., The, Cleveland, Ohio. Chocolate-coated candies packed in individual cartons. No. 156,655; July 11.
- De Klyn Candy Co., The, Cleveland, Ohio. Candy. No. 157,042; July 25.
- Delamare, Victor A., Cohasset, Mass. Boots and shoes. No. 162,153; Dec. 5.
- De Laney, Paul, Co. Inc., The, Brocton, N. Y. Jams and jellies. No. 154,654; Apr. 18.
- De Lange, James, Clinton, Iowa. Tonic or nerve restorer and system builder. No. 157,323; Aug. 1.
- De Laporte, Peter A., doing business as The D. & M. Healing Salve Co., Lodi, Calif. Salve for the treatment of eczema, itchings, burns, and cuts. No. 161,110; Nov. 7.
- De La Rue, Thomas, and Company, Limited, London, England. Certain molded electrical insulators and insulating appliances and fittings. No. 151,461; Feb. 7.
- De La Rue, Thomas, and Company, Limited, London, England. Bottle stoppers and lids. No. 157,043; July 25.
- De Laval Separator Company, The, New York, N. Y. Centrifugal machinery. No. 153,693; Mar. 28.
- De La Vergne Machine Company, New York, N. Y. Ice making and refrigerating machinery. No. 151,113; Jan. 24.
- De La Vergne Machine Company, New York, N. Y. Steam and internal-combustion engines, air compressors, etc. No. 157,044; July 25.
- Delaware Punch Company of Texas, The, San Antonio, Tex. Beverages sold as soft drinks and extracts and sirups for making the same. No. 161,868; Nov. 21.
- Del Castillo, Rafael & Co., New York, N. Y. Cotton piece goods. No. 152,962; Mar. 7.
- Delco Hosiery & Underwear Co. Inc., New York, N. Y. Hosiery and knitted underwear. No. 151,734; Feb. 14.
- De Leary, Daniel, Detroit, Mich. Medical compound for the treatment of consumption. No. 151,462; Feb. 7.
- Del Garcia, Armande, New York, N. Y. Serum for the treatment of tuberculosis. No. 150,373; Jan. 3.
- De Lima, Paul Co. Inc., Syracuse, N. Y. Coffee. No. 160,799; Oct. 24.
- Dellaco Corporation, Limited, Boston, Mass. Coffee substitute. No. 156,230; June 20.
- De Lisle, Harold L., Chicago, Ill. Filing cabinets. No. 151,735; Feb. 14.
- Dell Publishing Co., Inc., New York, N. Y. Magazine. No. 162,225; Dec. 12.
- Dellape, Andrea, Altoona, Pa. Medicine for Spanish flu. No. 153,694; Mar. 28.
- De Long Hook and Eye Company, The. (See Richardson & De Long Bros., assignors.)
- De Long Hook and Eye Company, The, Philadelphia, Pa. Snap fasteners. Nos. 150,329-30; Jan. 3.
- De Long Hook and Eye Company, The, Philadelphia, Pa. Hooks and eyes, hook and eye tape, and safety pins. No. 158,932; Sept. 19.
- Delpech, Jules, Oakland, Calif. Mustard, French dressing, mayonnaise, etc. No. 152,056; Feb. 14.
- Delson Chemical Co., Inc., The, Brooklyn, N. Y. Medicinal preparation for the treatment and relief of rheumatism, gout, etc. No. 158,205; Aug. 29.
- Delta Sigma Phi Fraternity, The, New York, N. Y., and Washington, D. C. Quarterly publications. No. 155,219; May 23.
- Delta Sigma Phi Fraternity, The, New York, N. Y., and Washington, D. C. Quarterly publication. No. 157,664; Aug. 15.
- Delta-Star Electric Company, Chicago, Ill. Certain electrical apparatus. No. 158,423; Sept. 5.
- Delta Tours. (See James, Otho F.)
- De Maria & Sparacia, New York, N. Y. Files, razors, razor blades, pocketknives, scissors, kitchen knives, and blade grinders. No. 162,491; Dec. 19.
- Demartini, L., Supply Co., San Francisco, Calif. Composition for use in making nougat and other candies. No. 152,746; Mar. 7.
- Demartini, L., Supply Co., San Francisco, Calif. Egg composition for making candy. No. 154,526; Apr. 18.
- Demartini, L., Supply Co., San Francisco, Calif. Confectioners' coco-nut butter. No. 159,327; Sept. 26.
- Deming Company, The, Salem, Ohio. Pumps. No. 160,445; Oct. 24.
- Deming Company, The, Salem, Ohio. Hand and power pumps. No. 161,869; Nov. 21.
- Deming Company, The, Salem, Ohio. Power pumps. No. 162,714; Dec. 26.
- Deming, William L., doing business as Standard Specialty Company, Salem, Ohio. Hose supporters. No. 161,111; Nov. 7.
- Denmi Cigar Co., Tampa, Fla. Cigars, cigarettes, cheroots, stogies, chewing tobacco, etc. No. 154,916; May 16.
- De Morales, Fidelia M., San Francisco, Calif. Preparation for treatment of ulcerous wounds of long standing. No. 158,425; Sept. 5.
- Dendoc Company, The, Milwaukee, Wis. Dentists' and doctors' record blanks. No. 160,851; Oct. 31.
- Denels, Robert, doing business as "Robert," New York, N. Y. Hair nets. No. 159,688; Oct. 3.
- Dengel & McCormack, New York, N. Y. Polishing cloths for wood, metal, glass, paints, etc. No. 162,715; Dec. 26.
- Denkewalter, Fred, doing business as Plant Marvel Laboratories, Columbus, Ohio. Plant food and tonic. No. 162,226; Dec. 12.
- Denney, Annie A., Philadelphia, Pa. Cream for use on the human hair. No. 160,172; Oct. 17.
- Denning, Patrick F., Cleveland, Ohio. Metal spring clips, name frames, and certain holders to be secured to supporting surfaces. No. 151,382; Jan. 31.
- Dennos Food Co. of Portland, Portland, Oreg. Whole-wheat milk food. No. 162,716; Dec. 26.
- Denny, Hilborn & Rosenbach, Philadelphia, Pa. Bronze liquids and certain paints and colors. No. 152,057; Feb. 14.
- De Nobili Cigar Co. Inc., Long Island City and New York, N. Y. Cigars. No. 157,923; Aug. 22.
- De Nobili Cigar Co. Inc., Long Island City and New York, N. Y. Cigars. No. 160,446; Oct. 24.
- Dental White Co., The. (See Stone, Otho L.)
- Dentifruit, Inc., Chicago, Ill. Tooth paste. No. 157,924; Aug. 22.
- Denver Alfalfa Milling & Products Co., The, Lamar, Colo. Alfalfa meal. No. 152,383; Feb. 28.
- Denzer, Goodhart & Co., New York, N. Y. Men's hats. No. 157,045; July 25.
- De Ortigao Burnay, Manoel, Paris, France. Certain fire-alarm apparatus. No. 162,227; Dec. 12.
- De Pars, W. M., doing business as Perfect Pocket Pipe Company, Paterson, N. J. Pipes. No. 161,452; Nov. 14.
- Dependable Pictures Corporation, New York, N. Y. Motion pictures. No. 162,492; Dec. 19.
- De Pinna, A., Co., Inc., New York, N. Y. Certain articles of clothing. No. 151,736; Feb. 14.
- De Pree Chemical Company, The, Holland, Mich. Certain toilet preparations. No. 157,324; Aug. 1.
- De Ridder, Oliver E., Rochester, N. Y. Shoes made wholly of leather. No. 161,112; Nov. 7.
- Derk, Joseph, Philadelphia, Pa. Light-weight summer portieres, silk drapery cloths, and curtains. No. 152,149; Feb. 21.
- Derma-Manna Co., New York, N. Y. Skin creams. No. 157,925; Aug. 22.
- Dermatological Laboratories, Chicago, Ill. Preparation in paste form for cleaning and softening the skin. No. 159,689; Oct. 3.
- Dervin, Patrick J., New York, N. Y. Medicinal preparation for skin diseases, open sores, rheumatism, and stiff joints. No. 155,404; May 30.
- Derwent Mills, Limited, Matlock Borough, England. Certain articles of clothing. No. 157,046; July 25.
- Derwent Mills Limited, Matlock Borough, England. Woven, knitted, and other cloths and stuffs. No. 157,665; Aug. 15.
- Dessaint, Alderic, Providence, R. I. Certain medicinal preparations. No. 151,114; Jan. 24.
- Designer Publishing Company, The, New York, N. Y. Publication in the nature of instruction sheets or charts for dressmakers' use. No. 157,488; Aug. 8.
- Deschappelles, Collins & Co., Inc., New York, N. Y. Vegetables. No. 162,228; Dec. 12.
- De Smet, George W., Chicago, Ill. Carbon black. No. 159,328; Sept. 26.
- Des Moines Glove & Mfg. Company Inc., Des Moines, Iowa. Gloves and baseball mitts. No. 162,060; Dec. 5.

Alphabetical list of registrants of trade-marks—Continued.

- Des Moines Incubator Company, Des Moines, Iowa. Grain sprouters, metal nests, drinking fountains, and feed hoppers. No. 152,058; Feb. 14.
- Desmond, Lawrence K., doing business as L. K. Desmond, Corry, Pa. Support for fountain pens. No. 159,329; Sept. 26.
- Despang, Alfred, Brooklyn, N. Y. Toy aeroplanes. No. 154,011; Apr. 4.
- Dessauer & Engel, Chicago, Ill. Men's hosiery, shirts, underwear, etc. No. 161,113; Nov. 7.
- De St. Cyr, William H., Chicago, Ill. Crude-oil compound for the treatment of scalps and analogous uses. No. 153,695; Mar. 28.
- Detroit Graphite Company, Detroit, Mich. Paints and paint enamels, varnishes. No. 150,331; Jan. 3.
- Detroit Insulated Wire Company, Detroit, Mich. Insulated wire. No. 160,852; Oct. 31.
- Detroit News, The. (See Evening News Association.)
- Detroit Packing Co., Detroit, Mich. Pork sausage. No. 159,615; Sept. 26.
- Detroit Piston Ring Company, Detroit, Mich. Piston rings. No. 151,383; Jan. 31.
- Detroit Range Boiler and Steel Barrel Co., Detroit, Mich. Range boilers. No. 162,718; Dec. 26.
- Detroit Steel Products Company, Detroit, Mich. Vehicle springs. No. 152,059; Feb. 14.
- Detroit Steel Products Company, Detroit, Mich. Vehicle springs. No. 153,924; Mar. 28.
- Detroit Twist Drill Company, Detroit, Mich. Twist drills. No. 151,115; Jan. 24.
- Detroit Twist Drill Company, Detroit, Mich. Milling reamers and cutters. No. 157,489; Aug. 8.
- Detroit Universal Solvent Company, Detroit, Mich. Varnishes, lacquers, and paint oils. No. 161,357; Nov. 7.
- Detroit Washing Machine Corporation, Detroit, Mich. Laundry washing machines. No. 156,656; July 11.
- Detroit White Lead Works, Detroit, Mich. Certain named chemicals, medicines, and pharmaceutical preparations. No. 154,264; Apr. 11.
- Detroit White Lead Works, Detroit, Mich. Certain soaps, metal polish, and leather dressing. No. 155,665; June 6.
- Detroit White Lead Works, Detroit, Mich. Tar compounds and rubber compositions for coating and cementing roofs, and concrete and cement hardeners. No. 155,949; June 13.
- Dettra, John C., Oaks, Pa. Hedge trimmers. No. 152,384; Feb. 28.
- Dettra, John C., & Company, Inc., Oaks, Pa. Athletic underwear of textile fabric. No. 154,527; Apr. 18.
- Deubener, Walter H., St. Paul, Minn. Shopping bags. Nos. 152,060-1; Feb. 14.
- Deutsch, Louis, doing business as Eagle Knitting Mill of New York, New York, N. Y. Sanitary napkins. No. 162,229; Dec. 12.
- Deutsche Capselin- & Zinnolit-Werke Gesellschaft mit beschränkter Haftung, Hamburg-Wandsbeck, Germany. Bottle caps. No. 160,447; Oct. 24.
- Dentz & Ortenberg, New York, N. Y. Blouses and waists. No. 154,528; Apr. 18.
- Deutz & Ortenberg, Inc., New York, N. Y. Waists. No. 155,318; May 23.
- De Van, John E., Baltimore, Md. Tablets to be used for indigestion. No. 157,926; Aug. 22.
- De Vilbiss Manufacturing Co., The Toledo, Ohio. Oils with or without medication. No. 150,332; Jan. 3.
- Devlin, Cathleen, Providence, R. I. Stove polish. No. 153,149; Mar. 14.
- Devoe Manufacturing Company, The, assignor to Standard Oil Company of New York. Refined oil. No. 20,770; renewed Feb. 23, 1922.
- Devoine Candy Company, Baltimore, Md. Chocolate sirups and other maltless sirups. No. 152,385; Feb. 28.
- Devon Laboratories Co., The, Cincinnati, Ohio. Medicinal throat tablets. No. 155,666; June 6.
- Devon Manufacturing Company, Inc., Brooklyn, N. Y. Play suits and overalls. No. 161,114; Nov. 7.
- Dew, Joseph R., Indianapolis, Ind. Phonographs and parts thereof. No. 155,319; May 23.
- De Weese, Paul L., Lima, Ohio. Medicated foot powder. No. 152,150; Feb. 21.
- Dewey, Edward B., Washington, D. C., and New York, N. Y. Hair nets. No. 157,666; Aug. 15.
- Dewey, H. F., & Sons Co., New York, N. Y. Medicinal tonic for nervous troubles. No. 154,265; Apr. 11.
- De Witt-La France Co., Cambridge, Mass. Radio receiving sets and sending sets and parts thereof. No. 160,853; Oct. 31.
- De Witt, Macdonald, New York, N. Y. Photographs. No. 157,490; Aug. 8.
- De Witt-Seitz Co., Duluth, Minn. Mattresses and bed springs. No. 157,667; Aug. 15.
- Dewsbury, John, & Son, Limited, Walsall, England. Harness hardware. No. 158,933; Sept. 19.
- Dexter, Eugene A., Springfield, Mass. Bread. No. 153,583; Mar. 21.
- Dexter Folder Company, New York, N. Y. Certain paper-handling machines. No. 152,386; Feb. 28.
- Dexter Manufacturing Co., Boston, Mass. Hand bags. No. 158,934; Sept. 19.
- Dexter Yarn Company, Pawtucket, R. I. Mercerized cotton thread and yarn. No. 151,116; Jan. 24.
- Dexter Yarn Company, Pawtucket, R. I. Mercerized mending cotton. No. 151,117; Jan. 24.
- De Zeng, Henry L., Camden, N. J. Eye-testing instruments for testing the retractive media and motor muscles of the eye. No. 150,787; Jan. 10.
- De Zeng, Henry L., Moorestown and Camden, N. J. Optometers, phorometers, phoro-optometers, retinoscopes, ophthalmoscopes, axometers, schematic eyes, Maddox rods, and rotary prisms. No. 153,925; Mar. 28.
- De Zeng, Henry L., trading as De Zeng-Standard Co., Camden, N. J. Eye, ear, nose, and throat diagnostic instruments. No. 162,719; Dec. 26.
- Dhinaut, Paul F., North Fayette Township, Allegheny County, Pa. Preparation for the treatment of sores, boils, chapped hands. No. 161,115; Nov. 7.
- Diack, Archibald W., Detroit, Mich. Pyrometers. No. 162,717; Dec. 26.
- Diack Bros., Troy, N. Y. Hair, clothes, and shoe brushes. No. 159,330; Sept. 26.
- Diadem Mfg. Co., Fitchburg, Mass. Certain notions and fancy goods. No. 151,737; Feb. 14.
- Diamond Alkali Company, Pittsburgh, Pa. Soda ash and caustic soda. No. 152,151; Feb. 21.
- Diamond Bottling Corporation, The, Waterbury Conn. Nonalcoholic beverages and sirups for making same. No. 152,387; Feb. 28.
- Diamond Braiding Mills, Chicago Heights, Ill. Shoe laces. No. 157,491; Aug. 8.
- Diamond Braiding Mills, Chicago Heights, Ill. Shoe laces. No. 158,648; Sept. 12.
- Diamond Holfast Company, Atlanta, Ga. Electric insulating tape. No. 156,657; July 11.
- Diamond Iron Works, Minneapolis, Minn. Oil engines. No. 154,917; May 16.
- Diamond, M., & Co. Inc., New York, N. Y. Ladies' handbags. No. 151,118; Jan. 24.
- Diamond Match Company, The, Chicago, Ill. Matches. No. 152,747; Mar. 7.
- Diamond Press, The, New York, N. Y. Printed paper stationery. No. 153,697; Mar. 28.
- Diamond State Fibre Company, Elsmere, Del., and Bridgeport, Pa. Waste receptacles. No. 161,693; Nov. 14.
- Di Bianco, Emilio, New York, N. Y. Olive oil. No. 159,331; Sept. 26.
- Dick, A. B., Company, Chicago, Ill. Ink, particularly ink adapted for use on stencil duplicators. No. 155,220; May 23.
- Dickerson, Lawrence T., Atlanta, Ga. Face massage cream. No. 155,667; June 6.
- Dickinson, Albert, Company, The, Chicago, Ill. Shelled pop corn. No. 22,343; renewed Jan. 17, 1923.
- Dickinson, Albert G., Grand Rapids, Mich. Sticky fly paper. No. 153,584; Mar. 21.
- Dickinson, Francis C., et al. (See Foltz, Frederick P., assignor.)
- Dickinson, John T., et al. (See Foltz, Frederick P., assignor.)
- Dickinson, May B., Boston, Mass. Dolls, dolls' clothing and bedding. Nos. 161,932-3; Nov. 28.
- Dickinson, May B., Boston, Mass. Printed books, pamphlets, and photographs. No. 162,493; Dec. 19.
- Dicks, Robert P., New York, N. Y. Dyeing, coloring, and tinting compositions. No. 150,333; Jan. 3.
- Dictator Fountain Pen Company, Inc., The, New York, N. Y. Fountain pens and lead pencils. No. 156,582; July 4.
- Diebold Safe and Lock Company, Canton, Ohio. Filing, skeleton, fireproof, burglar and manganese safes, vault doors, clocks, etc. No. 161,934; Nov. 28.
- Diederich, Marcellus, doing business as Standard Products Company, Lorain, Ohio. Insecticides. No. 158,935; Sept. 19.
- Dieffendorf, Willis H., Syracuse, N. Y. Gears. No. 155,950; June 13.
- Dieffendorf, Willis H., Syracuse, N. Y. Gears. No. 158,339; Aug. 29.
- Dieges & Clust, New York, N. Y. Medals and badges made of or plated with precious metal. No. 158,206; Aug. 29.
- Diehl, Edward, doing business as Diehl & Lord, Nashville, Tenn. Beverage sold as a soft drink and sirup therefor. No. 159,616; Sept. 26.
- Diehl & Lord. (See Diehl, Edward.)
- Diener, Richard, Kentfield, Calif. Liquid anti-snake-bite preparation. No. 154,266; Apr. 11.
- Diener, Richard, Kentfield, Calif. Liquid anti-snake-bite preparation. No. 154,267; Apr. 11.
- Dietz, R. E., Company, New York, N. Y. Glass globes for lanterns. No. 159,864; Oct. 10.
- Dietzgen, Eugene, Company, Chicago, Ill. Lead pencils. No. 160,450; Oct. 24.
- Diez Presa, Pedro, Valencia, Spain. Foods, namely, canned peppers and tomatoes. No. 154,656; Apr. 18.
- Digistalac Co. (See Brann, Thomas F.)
- Dilas, Harry, Bay City, Mich. Candy. No. 152,748; Mar. 7.
- Dilas, Harry, doing business as The Arcadia, Bay City, Mich. Candy. No. 162,720; Dec. 26.
- Dilator Syringe Corporation, New York, N. Y. Douche syringes. No. 159,178; Sept. 19.
- Dilla, Charles, Chicago, Ill. Preparation for the treatment of stomach, bowels, kidney, and heart trouble. No. 161,116; Nov. 7.
- Dille & McGuire Mfg. Co., Richmond, Ind. Lawn mowers. No. 150,789; Jan. 10.

- Dille & McGuire Mfg. Co., Richmond, Ind. Lawn mowers. No. 154,268; Apr. 11.
- Dilley, Thomas E., Fort Wayne, Ind. Preparation used in washing the hair. No. 153,698; Mar. 28.
- Dillmeier, Josephine M., Company, New York, N. Y. Caserole holders of base metal. No. 150,788; Jan. 10.
- Dillmore, Richard C., Philadelphia, Pa. Beverages sold as soft drinks and sirups for making same. No. 159,617; Sept. 26.
- Dillmore, Richard C., Philadelphia, Pa. Beverages sold as soft drinks and sirups for making same. No. 162,230; Dec. 12.
- Dillon, Asahel H., doing business as General Oil Producing Company, Youngstown, Ohio. Nonabrasive polish for cleaning and polishing the varnished, lacquered, and painted surfaces of automobiles, etc. No. 162,231; Dec. 12.
- Dime Cafeteria. (See Daly, Flora P., assignor.)
- Dimex Malt Extract Co. Inc., Port Jervis, N. Y. Malt extract and dried grains for making malt beverages. No. 160,854; Oct. 31.
- Dimick, Lily C., Fort Wayne, Ind. Certain named medicinal preparation. No. 154,269; Apr. 11.
- Dimitri et Delaunay, Paris, France. Compounds resembling porcelain for electrical insulation. No. 162,232; Dec. 12.
- Dimitri Delaunay & Husi, Paris, France. Burners for acetylene and gas. No. 160,448; Oct. 24.
- Dinuba Fruit Growers Company, Dinuba, Calif. Fresh grapes. No. 154,784; May 9.
- Direct Coffee Mills, Texarkana, Ark. Coffee. No. 151,738; Feb. 14.
- Di Salvo, G., & A. Patera, Brooklyn, N. Y. Canned fruits and vegetables. No. 158,936; Sept. 19.
- Dishmond, Mary A. B., Raleigh, N. C. Hair tonic. No. 155,668; June 6.
- Display Doughnut Machine Corporation, New York, N. Y. Food oils. No. 162,061; Dec. 5.
- Diston, Henry, & Sons, Incorporated, Tacony, Pa. Post-hole diggers. No. 154,438; Apr. 11.
- Diston, Henry, & Sons, Incorporated, Philadelphia, Pa. Levels, bevells, squares, and cutting, marking, and mortise gauges. No. 154,918; May 16.
- Diston, Henry, & Sons, Incorporated, Philadelphia, Pa. Saws, saw sets, and screw drivers. No. 155,221; May 23.
- Diston, Henry, & Sons, Incorporated, Philadelphia, Pa. Saws. No. 161,763; Nov. 21.
- Diston, Henry, & Sons, Incorporated, Philadelphia, Pa. Saws. No. 162,062; Dec. 5.
- Distillers Finance Corporation Limited, Belfast, Ireland. Whisky. No. 151,119; Jan. 24.
- Ditzler Color Company, Detroit, Mich. Automobile finishes. No. 158,426; Sept. 5.
- Diver, Pauline L., doing business as Marvel Specialties Company, New York, N. Y. Hair pomades. No. 161,117; Nov. 7.
- Divr, N. (See Divir, Neil.)
- Divir, Neil, doing business as N. Divir, New York, N. Y. Periodical publications. No. 158,937; Sept. 19.
- Dixie Fruit Products Corporation, New York, N. Y. Canned fruits and vegetables. No. 154,529; Apr. 18.
- Dixie Laboratories, Atlanta, Ga. Hair tonic. No. 161,118; Nov. 7.
- Dixon, Joseph, Crucible Company, Jersey City, N. J. Rubber erasers. No. 154,983; May 16.
- Dixon, Joseph, Crucible Company, Jersey City, N. J. Crayons. No. 160,451; Oct. 24.
- Dixon, Joseph, Crucible Company, Jersey City, N. J. Lead pencils. No. 161,790; Nov. 21.
- Dixon & Hillen, Oakland, Calif. Monthly periodical. No. 159,832; Sept. 26.
- Doble, William H., Norfolk Downs, Mass. Shipping cases. Nos. 158,938-9; Sept. 19.
- Dobson, John & James, Inc., New York, N. Y. Plush coats for ladies and misses. Nos. 155,988-90; June 13.
- Dochtermann, George T., Passaic, N. J. Spark plug. No. 151,464; Feb. 7.
- Dockhorn, William H., Elwood, Kans. Mineral feed mixtures for live stock and poultry. No. 162,721; Dec. 26.
- Dodd, William E., New York, N. Y. Cut lengths of silk and velvet ribbons. No. 150,334; Jan. 3.
- Dodge Brothers, Detroit, Mich. Motor vehicles and parts thereof. No. 151,027; Jan. 10.
- Dodge, Cheever K., Mamaroneck, N. Y. Code-memorizing charts for radio beginners and for pamphlets and books relating to radiotelegraphy. No. 162,233; Dec. 12.
- Dodge Sales & Engineering Co., Mishawaka, Ind. Stamped steel pulleys. No. 159,333; Sept. 26.
- Dodge, Sweeney & Co., San Francisco, Calif. Canned fruits and vegetables, sea food, condiments, jams, etc. No. 161,870; Nov. 21.
- Doehler Die-Casting Company, Brooklyn, N. Y. Nonferrous metal castings. Nos. 159,334-5; Sept. 26.
- Doermann Roehrer Co., The, Cincinnati, Ohio. Belting, hose, machinery packing, and nonmetallic tires. No. 159,865; Oct. 10.
- Doerr Glass Company, Inc., Vineland, N. J. Laboratory, chemical, and surgical glassware. No. 162,722; Dec. 26.
- Dog World Publishing Co., Chicago, Ill. Monthly publication. No. 162,494; Dec. 19.
- Dohner, Lester, Elizabethtown, Pa. Grease used in treatment of leather shoes, belting, and harness. No. 157,668; Aug. 15.
- Dolan, Thomas P., Pittsburgh, Pa. Calendars. No. 150,790; Jan. 10.
- Dolan, Thomas S., & Co., New York, N. Y. Artificial-silk, etc., goods in the piece and curtains made therefrom, and upholstery fabrics. No. 162,723; Dec. 26.
- Dolan, Timothy, Milwaukee, Wis. Leak-stopping compound for automobile radiators. No. 153,699; Mar. 28.
- Dolby, L. R., Co., Spokane, Wash. Tailored suits. No. 156,658; July 11.
- Dold, Jacob, Packing Co., Buffalo, N. Y. Dry salt pork products and lard. No. 162,724; Dec. 26.
- Dolge, C. B., Company, The, Westport, Conn. Product for cleaning out waste, drain, or stopped-up pipes. No. 160,173; Oct. 17.
- Doll-Croft Company, The. (See Levy, Maurice M.)
- Dollar Knife Corporation, The, Atlanta, Ga. Pocketknives. No. 161,764; Nov. 21.
- Dollfus-Mieg & Cie. (See Aktiengesellschaft fur Textil-Industrie vormals Dollfus-Mieg & Cie., assignors.)
- Dollfus-Mieg & Cie. Société Anonyme, Successor. (See Aktiengesellschaft fur Textil-Industrie, vormals Dollfus-Mieg & Cie.) (Renewed.)
- Dollfus-Mieg & Cie. Société Anonyme, Mulhouse, Alsace, France. Braids and articles of passementerie made of textiles of all kinds. No. 151,739; Feb. 14.
- Dome Oil Company, Washington, D. C. Gasoline. Lubricating oils, and greases. No. 158,649; Sept. 12.
- Domestic Manufacturing Co., Seattle, Wash. Electric ironers. No. 150,335; Jan. 3.
- Domestic Products Co., The, Dayton, Ohio. Dresses and skirts. No. 150,791; Jan. 10.
- Domino House. (See Sullivan, Marguerite.)
- Doniger, David D., & Co., Inc., New York, N. Y. Caps for men. No. 156,231; June 20.
- Doniger & Company, Inc., New York, N. Y. Tooth, hair, nail, and clothes brushes. No. 153,150; Mar. 14.
- Donley No-Pin Garter Company, The, Chicago, Ill. Garters. No. 151,120; Jan. 24.
- Donnelly Garment Company, Kansas City, Mo. Wash and house dresses, aprons. No. 156,669; June 6.
- Donnelly, Hugh A., St. Louis, Mo. Piece goods—namely, cambrics. No. 152,388; Feb. 28.
- Donohue, John, & Sons, Inc., Paterson, N. J. Mattresses. No. 155,670; June 6.
- Doran, James H., Washington, D. C. Candies. No. 161,765; Nov. 21.
- Dorite Manufacturing Company, New York, N. Y. Stucco and composition flooring. No. 152,389; Feb. 28.
- Dorothy Dodd Shoe Company, Boston, Mass. Boots, shoes, and slippers for men, women, and children. No. 154,531; Apr. 18.
- Dorothy Perkins Toilet Goods Company. (See Isaacs, Tula E.)
- Dorr Company, The, New York, N. Y. Pumps for rotating screens for removing solids from industrial and municipal waste. No. 156,659; July 11.
- Dorris Motor Car Company, St. Louis, Mo. Gasoline vaporizers for internal-combustion engines. No. 153,700; Mar. 28.
- Dorros Bros., Incorporated, New York, N. Y. Veils and veiling piece goods. No. 150,792; Jan. 10.
- Dorros Bros., Incorporated, New York, N. Y. Infants' wear. No. 154,530; Apr. 18.
- Dorros Bros., Incorporated, New York, N. Y. Artificial wreaths and bouquets and floral ornamental trimmings. No. 159,179; Sept. 19.
- Dorsett, W. C., Macon, Ga. Cake flour. No. 153,151; Mar. 14.
- Doss Rubber & Tube Co. Inc., Atlanta, Ga. Rubber tires. No. 150,336; Jan. 3.
- Doster-Northington Drug Co., Birmingham, Ala. Medicinal salve. No. 155,570; May 30.
- Dottenheim, Mark, New York, N. Y. Pearls. Nos. 158,207-8; Aug. 29.
- Dottenheim, Mark, doing business as Victor Company, New York, N. Y. Single pearls and strings of pearls. No. 162,234; Dec. 12.
- Dougherty, A. (See Dougherty, Andrew, assignor.)
- Dougherty, A., New York, N. Y. Playing cards. Nos. 153,633-4; Mar. 21.
- Dougherty, A., New York, N. Y. Playing cards. No. 155,148; May 16.
- Dougherty, A., New York, N. Y. Playing cards. No. 157,927; Aug. 22.
- Dougherty, Andrew, New York, N. Y. assignor to A. Dougherty. Playing cards. No. 22,010; renewed Nov. 22, 1922.
- Doughten Seed Company, Jersey City, N. J. Grass and field seeds. Nos. 155,871-2; June 6.
- Doughten Seed Company, Jersey City, N. J. Field and grass seeds. No. 162,725; Dec. 26.
- Doughty Mfg. Company, New York, N. Y. Windshield-cleaning devices. No. 153,152; Mar. 14.
- Douglas Chemical Laboratories, Inc., Chicago, Ill. Laxative pills. No. 154,012; Apr. 4.
- Douglass, Lloyd A., Washington, D. C. Soap, preferably powdered. No. 153,153; Mar. 14.
- Douropoulos, Alexandra, Arlington, Mass. Medicinal preparation for diabetes. No. 154,013; Apr. 4.
- Dovan Chemical Corporation, Wilmington, Del., and Newark, N. J. Accelerator for vulcanization of rubber. No. 156,232; June 20.
- Dover Manufacturing Company, The, Dover, Ohio. Stone-heated sadirons. No. 152,749; Mar. 7.

Alphabetical list of registrants of trade-marks—Continued.

- Dover Manufacturing Company, The, Dover, Ohio. Electrical heating elements for sadirons, branding and soldering irons. No. 158,424; Sept. 5.
- Dow Chemical Company, The, Midland, Mich. Insecticides and fungicides. No. 153,701; Mar. 28.
- Dow Chemical Company, The, Midland, Mich. Fungicides used for spraying or dusting plants. No. 157,928; Aug. 22.
- Downey, John G., Burgettstown, Pa. Washing compound. No. 151,740; Feb. 14.
- Downing, T. H. & Co., Ltd., Leicester, England. Certain articles of clothing. No. 154,532; Apr. 18.
- Downs, Mae L., Philadelphia, Pa. Monthly periodical. No. 155,222; May 23.
- Doyle-Kidd, D. G., Co., Little Rock, Ark. Weekly and annual publications. No. 150,337; Jan. 3.
- Drackett, P. W., & Sons Co., Cincinnati, Ohio. Chemical for cleansing drains, sinks, washboards, etc. No. 157,669; Aug. 15.
- Dragon Paper Mfg. Co. Inc., New York and Long Island City, N. Y. Waxed paper. No. 154,014; Apr. 4.
- Dragon Paper Mfg. Co. Inc., New York and Long Island City, N. Y. Waxed paper. No. 154,919; May 16.
- Drei Masken Verlag A.-G., Munich, Germany. Printed products—namely, journals, music, insignia, and letters. No. 159,336; Sept. 26.
- Dreifus, Tichner & Eckstein, assignor, by mesne assignments, to Tichner Bros., New York, N. Y. Hosiery. No. 161,119; Nov. 7.
- Dreisbach, Edward J., Philadelphia, Pa. Medicinal ointment. No. 157,929; Aug. 22.
- Dresch Laboratories Co., The, Toledo, Ohio. Dental attaching mounting and anchoring devices. No. 154,270; Apr. 11.
- Dresden Baking Powder Company, Zanesville, Ohio. Baking powder. No. 150,338; Jan. 3.
- Dresner, Emanuel, Chicago, Ill. Gladstone bags. No. 162,958; Dec. 26.
- Dressler, John M., Dallas, Tex. Certain medicinal preparations. No. 156,233; June 20.
- Dreyer & Butz, Newark, N. J. Apparatus for copying drawings and the like. No. 159,337; Sept. 26.
- Dreyfus Bros., Tulsa, Okla. Canned fruits and vegetables and coffee. No. 161,013; Oct. 31.
- Dreyfus Bros., Tulsa, Okla. Certain canned vegetables. No. 162,235; Dec. 12.
- Dreyfus Bros., Tulsa, Okla. Canned fruits, vegetables, and fish, and coffee. No. 162,495; Dec. 19.
- Dreyfus & Company, Wilmington, Del., and Richmond, Va. Hosiery. No. 161,453; Nov. 14.
- Drewry, J. O., Contracting Company, Inc., Birmingham and Carbon Hill, Ala. Coal. No. 160,174; Oct. 17.
- Driscoll, S. C., Minneapolis, Minn. Gymnastic apparatus for children. No. 153,154; Mar. 14.
- Dried Grape Products Co., San Francisco, Calif. Processed dehydrated grapes. No. 154,533; Apr. 18.
- Driesen, Meyer & Oronsky, New York, N. Y. Outer suits for males. No. 161,120; Nov. 7.
- Dritz-Traum Co., New York, N. Y. Silk used for stringing beads. No. 162,636; Dec. 19.
- Driver-Harris Company, Harrison, N. J. Heater cords. No. 158,428; Sept. 5.
- Drouin, Gedeon G., St. Eustache, Quebec, Canada. Fertilizers. No. 154,945; May 16.
- Dry Hand Mop Co., Inc., New Orleans, La. Mops. No. 161,358; Nov. 7.
- Dry Oil Products, Ltd., London, England, and New York and Trout Creek, N. Y. Certain medicinal preparations, cookie, cake, or cracker containing castor oil, etc. No. 150,339; Jan. 3.
- Dryden Rubber Company, Chicago, Ill. Rubber heels and soles. No. 156,118; June 13.
- Dryden Rubber Company, Chicago, Ill. Pneumatic automobile tires and inner tubes. No. 159,866; Oct. 10.
- Du-All Manufacturing Company, The, Cleveland, Ohio. Mops and a species of mops known as dusters. No. 162,496; Dec. 19.
- Dubar Company, Baltimore, Md. Lithographic solution. No. 154,271; Apr. 11.
- Dubilier Condenser & Radio Corporation, New York, N. Y. Electrical apparatus more particularly for condensers for radio telephone and telegraph purposes. No. 160,855; Oct. 31.
- Dubilier Condenser Co., Inc., New York, N. Y. Electrical condensers. No. 161,121; Nov. 7.
- Du Bois Machine Company, Albany, N. Y. Metallic oil rings. No. 152,680; Feb. 28.
- Dudley Gum Company, Nashville, Tenn. Chewing gum. No. 155,888; June 6.
- Dudley Gum Company, Nashville, Tenn. Chewing gum. No. 160,452; Oct. 24.
- Dudley Paper Co., The, Lansing, Mich. Toilet paper. No. 160,453; Oct. 24.
- Duesenberg Automobile & Motors Co. Inc., Indianapolis, Ind. Motor cars. No. 160,449; Oct. 24.
- Duff Manufacturing Company, The, Pittsburgh, Pa. Lifting jacks and parts thereof. No. 152,581; Feb. 28.
- Duffy-Mott Company. (See Duffy, Mountfort & Greene Cider Company, assignor.)
- Duffy-Mott Company. (See Duffy, Mountfort & Greene Cider Company, assignors.) (Renewed.)
- Duffy-Mott Company Inc., New York, N. Y. Ciders and fruit juices. No. 160,454; Oct. 24.
- Duffy-Mott Company Inc., New York, N. Y. Ciders and fruit juices. No. 160,455; Oct. 24.
- Duffy-Mott Company Inc., New York, N. Y. Ciders. Nos. 160,456-9; Oct. 24.
- Duffy, Mountfort & Greene Cider Company, Newark, N. J., assignor to Duffy-Mott Company Inc. Apple cider and cider vinegar. No. 20,817; renewed Mar. 8, 1922.
- Duffy, Mountfort & Greene Cider Company, Newark, N. Y., assignor to Duffy-Mott Company, Inc. Cider vinegar. No. 21,944; renewed Nov. 8, 1922.
- Duggan, Miner P., Sioux City, Iowa. Aprons. No. 156,860; July 18.
- Duke, Abrahams & Payson, Inc., New York, N. Y. Ladies' and misses' dresses. No. 154,534; Apr. 18.
- Dukes, Newton A., New York, N. Y. Series of text books. No. 150,340; Jan. 3.
- Dulle-Meyer Milling Company, Chamois, Mo. Self-rising flour. Nos. 153,435-6; Mar. 21.
- Dulle-Meyer Milling Company, Chamois, Mo. Self-rising flour. No. 159,338; Sept. 26.
- Duluth Boer Oil Co., Duluth, Minn. Waterproof dressing for leather and canvas goods. No. 155,405; May 30.
- Duluth-Superior Milling Company. (See Minkota Milling Company, assignors.)
- Duluth-Superior Milling Company, Duluth, Minn., and New York, N. Y. Wheat flour. No. 159,867; Oct. 10.
- Dunbar Drop Forge Company, Chicago, Ill. Ferrous and nonferrous metal castings and forgings. No. 157,047; July 25.
- Dunbar Molasses & Syrup Co., New Orleans, La. Molasses. No. 156,234; June 20.
- Duncan, John L., Manchester, England. Tobacco pipes, and cigar and cigarette tubes. No. 152,750; Mar. 7.
- Duncan Oil Company, The, Youngstown, Ohio. Motor oils and gasoline. No. 162,497; Dec. 19.
- Dunhill, Alfred, London, England. Tobacco, cigars, and cigarettes. Nos. 155,951-2; June 13.
- Dunhill, Alfred, London, England, assignor to Alfred Dunhill of London, Inc., New York, N. Y. Smoking tobacco. No. 161,454; Nov. 14.
- Dunhill, Alfred, of London, Inc. (See Dunhill, Alfred, assignor.)
- Dunhill, Alfred, of London, Inc., New York, N. Y. Cigars, little cigars, cigarettes, and smoking tobacco. Nos. 160,176-7; Oct. 17.
- Dunhill, Alfred, of London, Inc., New York, N. Y. Cigars, little cigars, cigarettes, and smoking tobacco. No. 161,935; Nov. 28.
- Dunkelberger, George L., Billings, Mont. Nursing bottle. No. 154,272; Apr. 11.
- Dunklau, William J., Chicago, Ill. Groceries and meats. No. 159,868; Oct. 10.
- Dunlap & Co., New York, N. Y. Certain articles of clothing. No. 151,121; Jan. 24.
- Dunlap, Fred C., Kansas City, Mo. Cleaning compound for the hands. No. 155,673; June 6.
- Dunlap Medicine Co., Columbus, Ohio. Certain medicinal preparation. No. 157,492; Aug. 8.
- Dunleavy, George W., Cambridge, Mass. Hair tonics. No. 157,325; Aug. 1.
- Dunleavy, George W., Cambridge, Mass. Hair tonics. No. 161,122; Nov. 7.
- Dunlevy & Bro., Pittsburgh, Pa., assignors to Dunlevy-Franklin Company, Ltd. No. 20,631; renewed Jan. 26, 1922.
- Dunlevy-Franklin Company. (See Dunlevy & Bro., assignors.)
- Dunlop Milling Co., Clarksville, Tenn. Wheat flour. No. 162,008; Nov. 28.
- Dunlop Rubber Co., Ltd., The, Aston Cross, Birmingham, England. Golf balls. Nos. 151,323-5; Jan. 31.
- Dunlop Rubber Co. Ltd., The, Aston Cross, Birmingham, England. Golf balls. No. 152,024; Feb. 14.
- Dunlop Tire and Rubber Corp. of America, Buffalo, N. Y. Golf balls. No. 160,178; Oct. 17.
- Dunn, John, Son & Co., New York, N. Y. Padlocks and locks. No. 150,793; Jan. 10.
- Dunn, John, Son & Co., New York, N. Y. Cotton duck in the piece. No. 150,794; Jan. 10.
- Dunn, John, Son & Co., New York, N. Y. Certain cutlery, machinery, and tools. No. 151,465; Feb. 7.
- Dunn, John, Son & Co., New York, N. Y. Filters and refrigerators. No. 151,741; Feb. 14.
- Dunn, John, Son & Co., New York, N. Y. Bolts and nuts, chain, woven-wire fencing. No. 153,702; Mar. 28.
- Dunn, John, Son & Co., New York, N. Y. Clothes-washing machines, wringers, and mangles. No. 157,326; Aug. 1.
- Dunn, John, Son & Co., New York, N. Y. Gas and oil water-heaters and lanterns, etc. No. 159,339; Sept. 26.
- Dunn Manufacturing Company, Oxnard, Calif. Automatic tubing catchers and other oil-well tools. No. 153,703; Mar. 28.
- Dunn Pen Company, Inc., New York, N. Y. Fountain pens. No. 153,704; Mar. 28.
- Dunn-Pen Company, Inc., New York, N. Y. Fountain pens. Nos. 154,920-1; May 16.
- Dunn-Pen Company Inc., New York, N. Y. Fountain pens. No. 160,460; Oct. 24.

- Dunn Pen Company Inc., New York, N. Y. Fountain pens. No. 162,063; Dec. 5.
- Dunsworth, Alice M., Oakland, Calif. Children's bibs and aprons. No. 155,953; June 13.
- Duplan Silk Corporation, New York, N. Y. Broad-silk piece goods. Nos. 152,152-5; Feb. 21.
- Duplan Silk Corporation, New York, N. Y. Broad-silk piece goods. No. 152,743; Mar. 7.
- Duplan Silk Corporation, New York, N. Y. Silk piece goods. No. 157,930; Aug. 22.
- Duplan Silk Corporation, New York, N. Y. Broad silk piece goods. No. 158,650; Sept. 12.
- Duplan Silk Corporation, New York, N. Y. Broad silk piece goods. No. 158,940; Sept. 19.
- Duplan Silk Corporation, New York, N. Y. Broad silk piece goods. Nos. 159,340-1; Sept. 26.
- Duplan Silk Corporation, New York, N. Y. Silk piece goods. No. 161,123; Nov. 7.
- Duplex Envelope Company, The, Quincy, Ill. Envelopes for mailing articles and for correspondence. No. 155,149; May 16.
- Duplex Products Co. (See Krusch, William T.)
- Du Pont, E. I., de Nemours & Company. (See Arlington Collar and Cuff Co., assignor.)
- Du Pont, E. I. de Nemours and Company. (See Arlington Manufacturing Company, The, assignors.) (Renewed.)
- Du Pont, E. I., de Nemours & Company, Wilmington, Del. Dye stuff intermediates. No. 152,156; Feb. 21.
- Du Pont, E. I., de Nemours & Company, Wilmington, Del. Pyroxilin and nitrocellulose. No. 153,155; Mar. 14.
- Du Pont, E. I., de Nemours & Company, Wilmington, Del. Hand mirrors. Nos. 153,585-6; Mar. 21.
- Du Pont, E. I., de Nemours & Company, Wilmington, Del. Hair and cloth brushes. Nos. 153,587-8; Mar. 21.
- Du Pont, E. I., de Nemours & Company, Wilmington, Del. Dye stuff intermediates. No. 153,705; Mar. 28.
- Du Pont, E. I., de Nemours & Company, Wilmington, Del. Air and water tight acid and heat-resistant fabrics. No. 154,015; Apr. 4.
- Du Pont, E. I., de Nemours & Company, Wilmington, Del. Certain named toilet receptacles. Nos. 154,194-5; Apr. 4.
- Du Pont, E. I., de Nemours & Company, Wilmington, Del. Gunpowder. No. 155,406; May 30.
- Du Pont, E. I., de Nemours & Company, Wilmington, Del. Caps, fuses, igniters, etc. No. 155,407; May 30.
- Du Pont, E. I., de Nemours & Company, Wilmington, Del. Dynamite. No. 155,408; May 30.
- Du Pont, E. I., de Nemours & Company, Wilmington, Del. High explosives. No. 157,931; Aug. 22.
- Du Pont, E. I., de Nemours & Company, Wilmington, Del. Waterproofed fabrics. No. 159,869; Oct. 10.
- Du Pont, E. I., de Nemours & Company, Wilmington, Del. Adhesive, waterproof adhesive, adhesive belt, adhesive leather, and household cements. No. 161,936; Nov. 28.
- Du Pont, E. I., de Nemours & Company, Wilmington, Del. Polishes acting as grease removers and cleaning materials, metal polish, etc. No. 162,498; Dec. 19.
- Du Pont-Young Corporation, Boston, Mass., and New York, N. Y. Certain preparations. No. 151,466; Feb. 7.
- Dupuis Chemical Company, Los Angeles, Calif. Machine-poisoned raisins. No. 155,409; May 30.
- Durabilt Steel Locker Co., Aurora, Ill. Steel lockers, wardrobe and filing cabinets, and steel shelving. No. 162,236; Dec. 12.
- Durable Utilities Mfg. Corp., Port Chester, N. Y. Cotton buffs. No. 151,742; Feb. 14.
- Duraflex Company, The, Baltimore, Md. Plastic floor covering to be applied with a trowel. No. 160,461; Oct. 24.
- Duran y Cia, Barcelona, Spain. Olive oil. No. 158,639; Sept. 12.
- Durand Co., Boston, Mass. Candy. No. 162,237; Dec. 12.
- Durant Motor Company of New York, Inc., New York, N. Y. Automobiles, motor cars, and trucks, and parts thereof. No. 154,764; May 2.
- Durair, Harold C., Plainfield, N. J. Antiseptic ointment. No. 152,158; Feb. 21.
- Durgin, William B., Co., Concord, N. H. Sterling-silver ware comprising flat and hollow ware. No. 162,238; Dec. 12.
- Durham Cotton Mfg. Co., East Durham, N. C. Gingham in the piece. No. 152,062; Feb. 14.
- Duschnes, Edwin I., New York, N. Y. Storage batteries. No. 152,751; Mar. 7.
- Dusco Co., The, Buffalo, N. Y. Salves containing camphor ingredients. No. 158,941; Sept. 19.
- Duttonhofer-Stevens Co., The, Cincinnati, Ohio. Women's low and high shoes of leather and cloth. No. 154,535; Apr. 18.
- Dutton, E. P., & Company, New York, N. Y. Printed books published in series. No. 158,651-2; Sept. 12.
- Dutton, E. P., & Co., New York, N. Y. Printed books published in series. No. 162,239; Dec. 12.
- Dyas & Le Gros, Incorporated, Chicago, Ill. Wood filler in liquid, paste, or dry form. No. 152,752; Mar. 7.
- Dyatome Laboratories. (See Samson, Edgar.)
- Dyer, B. H., Los Angeles, Calif. Glare shields attachable to automobile wind shields. No. 154,016; Apr. 4.
- Dykema Company, The. (See Dykema, Tunis J.)
- Dykema, Tunis J., doing business as The Dykema Company, Pittsburgh, Pa. Infants' rubber nipples. No. 162,429; Dec. 12.
- Dyktor Brothers, Inc., New York, N. Y. Carbon steel, high-speed or alloyed tool steel. No. 154,922; May 16.
- Dyktor Brothers Inc., New York, N. Y. Carbon and high-speed steel, twist drills, reamers, rasps, taps, etc. No. 158,861; July 18.
- Dynamic Chemical Co., Buffalo, N. Y. Solvents for waste and sewer pipes. No. 150,341; Jan. 8.
- "Dynamo" Tulle Importing Company, The, New York, N. Y. Tullies, muslins, crepes, silks, veillings, and nettings in the piece and veils. No. 150,795; Jan. 10.
- "Dynamo" Tulle Importing Co., The, New York, N. Y. Tullies, muslins, crepes, silks, veils and veillings and nettings in the piece. No. 152,390; Feb. 28.
- E. Rémy Martin & Co., Rouillac, France. Brandy. No. 20,561; Renewed Jan. 5, 1922.
- E. A. Laboratories, Inc., Brooklyn, N. Y. Electrical warning signals. No. 158,477; Sept. 5.
- Eagle Candle Co., Brooklyn, N. Y. Candles. No. 151,326; Jan. 31.
- Eagle Chemical Company, Milwaukee, Wis. Cleansing, sterilizing, and disinfecting compound. No. 162,240; Dec. 12.
- Eagle Knitting Mill of New York. (See Deutsch, Louis.)
- Eagle Lock Co., Terryville, Conn. Padlocks. Nos. 153,706-7; Mar. 28.
- Eagle Lock Co., Terryville, Conn. Wood screws. No. 153,708; Mar. 28.
- Eagle Lock Co., Terryville, Conn. Padlocks. No. 154,923; May 16.
- Eagle Lock Co., Terryville, Conn. Locks, night latches, and padlocks. No. 159,342; Sept. 26.
- Eagle Pencil Company, New York, N. Y. Lead pencils. No. 157,493; Aug. 8.
- Eagle Paint & Varnish Co., Pittsburgh, Pa. Varnishes. No. 153,709; Mar. 28.
- Eagle Rubber Co., The, Ashland, Ohio, and New York, N. Y. Bouncing balls. No. 158,653; Sept. 12.
- Eagle Rubber Co., The, Ashland, Ohio. Toy balloons. No. 160,462; Oct. 24.
- Eagle Suspender & Belt Co. Inc., Philadelphia, Pa. Hose supporters and garters. No. 157,494; Aug. 8.
- Eagle Suspender & Belt Co. Inc., Philadelphia, Pa. Suspenders. No. 154,536; Apr. 18.
- Eakins, Herbert W., Springfield, Ohio. Chocolate creams. No. 161,014; Oct. 31.
- Earl & Wilson, Troy, N. Y. Negligee and dress shirts and waistcoats. No. 161,456; Nov. 14.
- Earl, Eugenie, doing business as Earl Klean-Glas Mfg. Co., San Francisco, Calif. Cleaning compound for glass, piano keys, ivory, etc. No. 162,959; Dec. 26.
- Earl Fruit Company, Sacramento, Calif. Fresh grapes. No. 154,537; Apr. 18.
- Earl Klean-Glas Mfg. Co. (See Earl, Eugenie.)
- Earle, Walter K., doing business as American Fruit Products Company, Chicago, Ill. Flavoring material for making a nonalcoholic fruit beverage. No. 158,429; Sept. 5.
- East and West Trading Corporation, New York, N. Y. Henna shampoo. No. 152,159; Feb. 21.
- East and West Trading Corporation, New York, N. Y. Human-hair nets. No. 157,495; Aug. 8.
- Easterday, Chester H., Logansport, Ind. Embalming fluid. No. 153,710; Mar. 28.
- Eastern Advertising Company, New York, N. Y. Magazine section. No. 155,223; May 23.
- Eastern Aluminum Company, Boston, Mass. Certain cooking and household utensils of aluminum. No. 159,343; Sept. 26.
- Eastern Engineering Company, Revere, Mass. Roller coasters. No. 157,932; Aug. 22.
- Eastern Hair Net Trading Co., New York, N. Y. Hair nets. No. 157,933; Aug. 22.
- Eastern Malt Products Co. (See Robinson, Lettie C.)
- Eastern Tube & Tool Company, Inc., Brooklyn, N. Y. Flexible woven tubing for electrical wire-conduits. No. 152,753; Mar. 7.
- Eastman Advertising Service. (See Eastman, Arthur A.)
- Eastman, Arthur A., doing business as Eastman Advertising Service, South Bend, Ind. Monthly trade bulletin. No. 158,654; Sept. 12.
- Eastman Kodak Company, Rochester, N. Y. Monthly magazine. No. 152,025; Feb. 14.
- Eastman Kodak Company, Rochester, N. Y. Light-sensitive photographic paper. Nos. 162,726-31; Dec. 26.
- Eatabita Cheese Company. (See Vollmer, Roger H.)
- Eau Claire Sand & Gravel Co., Eau Claire, Wis. Sand and gravel of various kinds. No. 155,675; June 6.
- Eavenson, J., & Sons, Incorporated, Philadelphia, Pa., and Camden, N. J. Toilet soaps. No. 158,942; Sept. 19.
- Eberhard Manufacturing Company, The, Cleveland, Ohio. Malleable castings. No. 21,059; renewed Apr. 26, 1922.
- Eberhard Manufacturing Company, The, Cleveland, Ohio. Saddlery hardware. No. 21,019; renewed Apr. 26, 1922.
- Eberly, David A., Alameda, Calif. Castile soap. No. 154,924; May 16.
- Eberwein & Zahndt, Rochester, N. Y. Letter files. No. 161,766; Nov. 21.
- Eckenrode, John M., Pasadena, Calif. Root beer. No. 151,122; Jan. 24.

Alphabetical list of registrants of trade-marks—Continued.

- Eckenroth Valve and Manufacturing Co., Philadelphia, Pa. Metallic valves. No. 159,344; Sept. 26.
- Eckert Packing Company, Henderson, Ky. Ham. No. 162,732; Dec. 26.
- Eckl, Edward, Los Angeles, Calif. Refrigerators. No. 160,463; Oct. 24.
- Eckstein, Joseph, Inc., New York, N. Y. Ladies', misses', and children's suits. No. 154,538; Apr. 18.
- Eclipse Light Company, New York, N. Y. Bowls, shades, chimneys, canopies, fitters, domes, etc. No. 154,824; May 9.
- Eclipse Light Company, New York, N. Y., assignor to London Lightingwares Corporation. Certain fixtures and parts thereof, heaters, lamps, ranges, grills, and cooking stoves. No. 156,512; June 27.
- Eclipse Light Company, New York, N. Y., assignor to London Lightingwares Corporation. Certain electric fixtures. No. 156,592; July 4.
- Eclipse Timer Mfg. Co. (See Kaufman, Adam.)
- Economic Materials Co., Chicago, Ill. Filling for cream-puffs, eclairs, &c. No. 153,437; Mar. 21.
- Economic Materials Co., Chicago, Ill. Breakfast cereal. No. 162,430; Dec. 12.
- Economy Bias Binding Company, New York, N. Y. Bias seam tape. No. 157,808; Aug. 15.
- Economy Food Products Company, Cambridge, Mass. Dried egg, meringue powder, pie filling. No. 156,660; July 11.
- Economy Fuse and Manufacturing Co., Chicago, Ill. Fuses. No. 158,430; Sept. 5.
- Economy Oil Company, Chicago, Ill. Lubricating oils. No. 154,017; Apr. 4.
- Economy Spectacle Company, Chicago, Ill. Spectacles, eyeglasses, ophthalmic lenses, and frames therefor. No. 150,796; Jan. 10.
- Economy Tumbler Co., Morgantown, W. Va. Certain glassware. No. 156,483; June 20.
- Ecuadorian Panama Hat Company. (See Israel, Elias.)
- Edco Oil Co. Registered. Philadelphia, Pa. Lubricating oils and greases. No. 153,156; Mar. 14.
- Edelman, Hyman, Chicago, Ill. Work pants, jackets, and overalls. No. 155,674; June 6.
- Edelman, Philip E., New York, N. Y. Certain radio apparatus. No. 160,856; Oct. 31.
- Edelman, Philip E., New York, N. Y. Certain radio apparatus. No. 162,241; Dec. 12.
- Edenfield, William N., Atlanta, Ga. Alkaline antiseptics. No. 152,160; Feb. 21.
- Edgar Chemical Company, The, Cleveland, Ohio. Medicines for treatment of colds and analogous diseases. No. 158,209; Aug. 29.
- Edgar-Morgan Co., Memphis, Tenn. Mixed feeds used for domestic animals and poultry. No. 152,755; Mar. 7.
- Edison, Thomas A., Incorporated, West Orange, N. J. Phonographs. Nos. 156,661-2; July 11.
- Edison Tire & Rubber Co., Inc., Chicago, Ill. Automobile rubber tires. No. 159,618; Sept. 26.
- Edlis Barbers' Supply Co., The, Pittsburgh, Pa. Razors. No. 150,797; Jan. 10.
- Edmonds Shoe Company, Milwaukee, Wis. Leather shoes. No. 154,439; Apr. 11.
- Edmonds Shoe Company, Milwaukee, Wis. Leather shoes. No. 156,235; June 20.
- Edmunds, Henry, Westminster, London, England, assignor to Hydrolloid Incorporated, New York, N. Y. Paper. No. 152,161; Feb. 21.
- Edna May Candy Co., Harrisburg, Pa. Candy. No. 156,537; June 27.
- Educational Films Corporation of America, New York, N. Y. Motion pictures. Nos. 150,798-9; Jan. 10.
- Edwards, A. M., Atlanta, Ga. Tonic and blood purifier. No. 155,954; June 13.
- Edwards, Louis F., New York, N. Y. Belt lubricator or dressing. No. 153,157; Mar. 14.
- Edwards, Louis F., New York, N. Y. Composition for preventing and removing boiler incrustations. No. 153,711; Mar. 28.
- Edwards Manufacturing Co., The, Cincinnati, Ohio. Toy pistols, rifles, and repeating rifles. No. 151,123; Jan. 24.
- Edwardsen, Cris A., doing business as D. L. Witmer & Bro., Philadelphia, Pa. Windshield cleaners of the squeegee type. No. 157,496; Aug. 8.
- Efficiency Device Corporation, Long Island City, N. Y. Machine wrenches. No. 158,340; Aug. 29.
- Efficiency Electric Corporation, New York, N. Y. Electrical phonograph motors. No. 151,743; Feb. 14.
- Eggens-Hamblen Company, Elizabeth, N. J., and New York, N. Y. Fountain pens, stylographic pens, and pencils. No. 159,345; Sept. 26.
- Eggers, Edward L., doing business as the Merforol Company, St. Louis, Mo. Preparation for cleaning, shining, and polishing shoes and all leather articles. No. 159,346; Sept. 26.
- Egry Register Company, The, Dayton, Ohio. Cabinets for registers. No. 155,676; June 6.
- Egyptian Mineral Co., Chicago, Ill. Silica. No. 160,464; Oct. 24.
- Ehmann Olive Company, Oroville, Calif. Olives and olive oil. No. 151,385; Jan. 31.
- Ehrlich, H., & Sons Mfg. Co., St. Joseph, Mo. Refrigerators. No. 161,359; Nov. 7.
- Ehrman, William, New York, N. Y. Periodicals published monthly and at other intervals. No. 155,224; May 23.
- Eibel, Christian H., New York, N. Y. Fountain, stylographic, and common writing pens, holders, pencils, and crayons. No. 154,825; May 9.
- Eichelberger's Sons, Dayton, Ohio. Certain named construction material. No. 157,413; Aug. 1.
- Eilert Beverage Company, The, Cleveland, Ohio. Carbonated beverages. No. 154,925; May 16.
- Eiseman, Samuel, & Co. Inc., New York, N. Y. Silk piece goods. No. 154,273; Apr. 11.
- Eisenberg, Abraham J., Chicago, Ill. Sanitary shaving outfit. No. 154,539; Apr. 18.
- Eisenberg, S., & Sons, New York, N. Y. Cotton fabrics in the piece. No. 153,158; Mar. 14.
- Eisenberg, Jacob, Binghamton, N. Y. Preparation for certain purposes. No. 155,677; June 6.
- Eisenberg, Ralph M., New York, N. Y. Electrotypes. No. 154,785; May 2.
- Eisendrath, Joseph N., Company, The, Chicago, Ill. Leather gloves and mittens. No. 150,342; Jan. 3.
- Eisenlohr, Otto, & Bros. Inc., Philadelphia, Pa. Cigars. No. 156,862; July 18.
- Eisner, Jacob, New York, N. Y. Men's, youths', and boys' clothing for outer wear. No. 162,499; Dec. 19.
- Eisner, Sigmund, Company, Red Bank, N. J. Men's and boys' outer wearing negligee and work shirts. No. 157,670; Aug. 15.
- Ekbergh, Ida D., doing business as Swedish Pan-Cakery, Minneapolis, Minn. Pancake flour. No. 159,870; Oct. 10.
- Ekstrom, Anton I., Rockford, Ill. Puzzles. No. 160,857; Oct. 31.
- Ekstrom & Linne Baking Co., Chicago, Ill. Biscuits and crackers. No. 152,754; Mar. 7.
- Elam, Wade H., Nashville, Tenn. Beverage sold as a soft drink and sirup for making same. No. 158,656; Sept. 12.
- Elbee Chocolate Co. Inc., New York, N. Y. Candies. No. 162,733; Dec. 26.
- Elbro Knitting Mills, Milwaukee, Wis. Knitted outerwear, sweaters, coats, capes, hockey caps, hoods, etc. No. 157,934; Aug. 22.
- Elcaptain Toy and Game Co. (See Beresford, Lionel B.)
- Elders, H. Will, doing business as Nature's Elixir Co., St. Joseph, Mo. Proprietary medicine for use in treatment of sterility in women. No. 158,210; Aug. 29.
- Eld-O-Lene Manufacturing Company. (See Conn, Andrew C.)
- Electric Alloy Steel Company, The, Youngstown, Ohio. Steel. Nos. 162,064-7; Dec. 5.
- Electric Boiler Corporation, Cambridge, Mass. Electric boilers. No. 150,669; Jan. 3.
- Electric Machine Corporation, The, Indianapolis, Ind. Radio receiving sets and parts thereof. No. 162,242; Dec. 12.
- Electric Manufacturing Company, San Francisco, Calif. Certain electrical devices. No. 151,467; Feb. 7.
- Electric Outlet Company, Inc., New York, N. Y. Wall and ceiling plates and connections for electric-lighting fixtures, etc. No. 156,663; July 11.
- Electric Smelting & Aluminum Co. Inc., The, Lockport, N. Y. Soluble chemical compounds used as detergents. Nos. 151,745-7; Feb. 14.
- Electric Specialty Co., Stamford, Conn. Electric motors, generators, dynamotors, and motor generators. No. 162,243; Dec. 12.
- Electric Steel & Forge Company, Cleveland, Ohio. Steel bars, plates, shapes, and steel castings and forgings. No. 150,800; Jan. 10.
- Electric Vacuum Cleaner Company, Cleveland, Ohio. Electric vacuum cleaners and parts thereof. No. 155,682; June 6.
- Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio. Electric vacuum cleaners and parts thereof. No. 162,244; Dec. 12.
- Electrical & Specialty Supply Co., Chicago, Ill. Illuminated traffic markers for streets and roads. No. 158,431; Sept. 5.
- Electrical Engineers Equipment Company, Chicago, Ill. Disconnecting switches, lightning arresters, choke coils. No. 156,664; July 11.
- Electricitätsgesellschaft "Sanitas" mit beschränkter Haftung, Berlin, Germany. Electrical machines and apparatus for Röntgen and electromedical purposes and parts thereof. No. 162,734; Dec. 26.
- Electrified Water & Machine Company, Dallas, Tex. Ginger ale. No. 162,500; Dec. 19.
- Electro Alloys Company, The, Elyria, Ohio. High-temperature metal castings. No. 161,767; Nov. 21.
- Electro Chemical Refineries, Inc., Chicago, Ill. Solvent and menstruum and substitute for ethyl alcohol. No. 152,756; Mar. 7.
- Electro Metallurgical Company, Glen Ferris, W. Va., and Niagara Falls, N. Y. Ferrous and nonferrous metals and alloys. No. 159,347; Sept. 26.
- Electro Radite Company, The, Westport, Conn. Hair curlers. No. 155,683; June 6.
- Electrogene Chemical Co., The, Cleveland, Ohio. Electrolyte compound for batteries. No. 157,935; Aug. 22.
- Electrolyte Storage Battery Co., Philadelphia, Pa. Storage batteries. No. 162,154; Dec. 5.
- Electrose Manufacturing Company, Brooklyn, N. Y. Fabricated material for electrical insulation and certain insulation devices. No. 155,678; June 6.

Alphabetical list of registrants of trade-marks—Continued.

- Electrostop Manufacturing Company, Inc., Philadelphia, Pa. Razor stropping and honing machines, razor-blade holders, etc. No. 152,391; Feb. 28.
- Electrox Company, Peoria, Ill. Oils, shortening, and fats, oil compounds, butterine and margarine. Nos. 150,343-5; Jan. 3.
- Electrozone Water Company, Oklahoma, Okla. Nonalcoholic beverages and purified drinking water. No. 157,049; July 25.
- Elektrizitätsgesellschaft Sanitas mit beschränkter Haftung, Berlin, Germany. Electric hot-air baths, electrical massage device, and electric hot-air douches. No. 158,657; Sept. 12.
- Elektrizitätswerk Lonza, Gampel, Switzerland. Certain chemical preparations. No. 152,214; Feb. 21.
- Elektrizitätswerk Lonza, Gampel, Switzerland. Burners for lighting, heating, and cooking purposes. No. 157,050; July 25.
- Elgin National Watch Company, Chicago, Ill. Watches and watch movements. No. 155,225; May 23.
- Elgin National Watch Company, Chicago, Ill. Watches. No. 21,464; renewed July 19, 1922.
- Elias, Joseph, & Co., Inc., New York, N. Y. Plate and roller glass and glass having wire reinforcements. No. 159,871; Oct. 10.
- Elias and Lowenstein Company, The, Cincinnati, Ohio. Bungalow aprons. No. 157,051; July 25.
- Elise's Incorporated, Milwaukee, Wis. Chocolate. No. 154,786; May 9.
- Eliowitz, Wolf, New York, N. Y. Powder puffs. No. 160,465; Oct. 24.
- Elite Chocolate Coated Baseball Company. (See Elite Confectionery Co., assignor.)
- Elite Confectionery Co., assignor to Elite Chocolate Coated Baseball Company, El Paso, Tex. Ice cream. No. 156,665; July 11.
- El-Kay Co., Richmond Hill, N. Y. Insect powders. No. 150,346; Jan. 3.
- Elk Brand Shirt & Overall Co., Hopkinsville, Ky. Children's one-piece suits. No. 151,124; Jan. 24.
- Elkind, Samuel, doing business as The Empire Shoe Company, New York, N. Y. Leather boots and shoes. No. 161,360; Nov. 7.
- Elliott, J. S., Coffee Co., Newville, Pa. Roasted coffee. No. 160,770; Oct. 24.
- Ellis, Eugene, Co. Inc., New Orleans, La. Cotton piece goods. No. 159,691; Oct. 3.
- Ellis, George D., & Sons, Incorporated, Philadelphia, Pa. Tin cans and closures for cans. No. 158,655; Sept. 12.
- Elkhop System Inc., Boston, Mass. Loose-leaf budget system. No. 161,768; Nov. 21.
- Ellsworth & Thayer Mfg. Co., Milwaukee, Wis. Leather or fabric gloves. No. 158,156; Aug. 22.
- Ellsworth & Thayer Mfg. Co., Milwaukee, Wis. Fur coats, sheepskin coats, and vests, etc. No. 161,126; Nov. 7.
- Ellwood, James B., Chicago, Ill. Matches. No. 155,410; May 30.
- Elmer Candy Co. Inc., New Orleans, La. Candy. No. 154,540; Apr. 18.
- Elmira Cotton Mills Co., Burlington, N. C. Dress gingham in the piece. No. 162,735; Dec. 26.
- El Reno Mill & Elevator Co., El Reno, Okla. Wheat flour. No. 159,350; Sept. 26.
- Elstein, Joseph, & Sons, New York, N. Y. Men's topcoats. No. 158,943; Sept. 19.
- Elwell Brush Company, Rockford, Ill. Certain brushes, dusters, and mops. No. 155,411; May 30.
- Elwood Myers Co., The, Springfield, Ohio. Purses. No. 158,751; Sept. 12.
- Ely & Walker Dry Goods Company, St. Louis, Mo. Certain articles of clothing. No. 150,801; Jan. 10.
- Ely & Walker Dry Goods Company, St. Louis, Mo. Sheets and pillow cases. No. 153,159; Mar. 14.
- Ely & Walker Dry Goods Company, St. Louis, Mo. Gingham, cotton piece goods. No. 153,438; Mar. 21.
- Ely & Walker Dry Goods Company, St. Louis, Mo. Certain textile fabrics. No. 157,936; Aug. 22.
- Ely & Walker Dry Goods Company, St. Louis, Mo. Leather gloves, fabric gloves, and mittens. Nos. 157,937-8; Aug. 22.
- Emans, Theodore F., Chicago, Ill. Men's, women's, misses', and children's shoes. No. 161,127; Nov. 7.
- Embalmer's Supply Co., The, Westport, Conn. Hand fire extinguishers. No. 152,757; Mar. 7.
- Embalming Burial Case Company, Burlington, Iowa. Burial cases. No. 158,658; Sept. 12.
- Emerson, Frederick J., East Boston, Mass. Liquid medicinal compound. No. 156,236; June 20.
- Emerson Phonograph Company, Inc., New York, N. Y. Phonograph and phonograph records. No. 155,412; May 30.
- Emerson Phonograph Company, Inc., New York, N. Y. Phonograph records. No. 156,666; July 11.
- Emerson Pharmaceutical Laboratories, West Hoboken, N. J. Insect fluid. No. 156,863; July 18.
- Emerson Soap Co., Dixon, Ill. Soap. No. 155,413; May 30.
- Emery & Beers Company, Inc., New York, N. Y. Stockings. Nos. 155,320-1; May 23.
- Emery & Beers Company, Inc., New York, N. Y. Hosiery. No. 158,659; Sept. 12.
- Emery Candle Company, The, Cincinnati, Ohio. Lubricating oils made from animal fats. No. 151,028; Jan. 10.
- Emery Candle Company, The, Cincinnati, Ohio. Lubricating oils. No. 154,018; Apr. 4.
- Emery, James H., Inwood Park, N. Y. Artificial fruit. No. 151,748; Feb. 14.
- Emery Rubber Heel Company, Boston, Mass. Rubber heels. No. 154,541; Apr. 18.
- Emido Company, Ltd., The, Liverpool, England. Vegetable flour. No. 158,432; Sept. 5.
- Emifertra Manufacturing Co. (See Travieso, Emilio F.)
- Empire Carpet Co., New York, N. Y. Fabric carpets and rugs. No. 162,960; Dec. 26.
- Empire Food Products Company, New York, N. Y. Baking powder. No. 157,327; Aug. 1.
- Empire Notion Co., New York, N. Y. Hairpins. No. 151,749; Feb. 14.
- Empire Notion Co., New York, N. Y. Hair nets. No. 152,758; Mar. 7.
- Empire Notion Co., New York, N. Y. Hairpins. No. 155,679; June 6.
- Empire Shoe Company, The. (See Elkind, Samuel.)
- Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. No. 152,392; Feb. 23.
- Empire Silk Company, Wilmington, Del., and New York, N. Y. Handkerchiefs and bandannas. Nos. 156,237-8; June 20.
- Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. No. 157,939; Aug. 22.
- Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. No. 161,457; Nov. 14.
- Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. Nos. 162,736-41; Dec. 26.
- Empire Stamping Tool & Mfg. Co., St. Louis, Mo. Wear plates for shoes. No. 150,802; Jan. 10.
- Empire State Dairy Company, The, Brooklyn, N. Y. Canned condensed and evaporated milk. No. 152,759; Mar. 7.
- Empress Manufacturing Co., Inc., The, New York, N. Y. Toilet preparation. No. 155,414; May 30.
- Enders, Wm., Mfg. Co., Walden, N. Y., and St. Louis, Mo. Paints, stains, colors, etc. No. 153,160; Mar. 14.
- Endicott Johnson Corporation, Endicott, N. Y. Leather shoes. No. 161,178; Nov. 7.
- Endres, Alfred, New York, N. Y. Malt extract. No. 154,926; May 16.
- Energy Electrolyte Co., Minneapolis, Minn. Liquid battery solution. No. 155,680; June 6.
- Enell, William H., doing business as Warren Laboratories, Rochester, N. Y. Medicine for stomach troubles. No. 161,128; Nov. 7.
- Engel, Albert W., doing business as Engel Manufacturing Company, Chicago, Ill. Blank gummed labels. No. 157,940; Aug. 22.
- Engel, H., & Sons, New York, N. Y. Handkerchiefs. Nos. 161,458-60; Nov. 14.
- Engel Manufacturing Company. (See Engel, Albert W.)
- Engineering Magazine Company, The, New York, N. Y. Printed publications issued monthly. No. 150,347; Jan. 3.
- Eng-Skell Company, Inc., San Francisco, Calif. Flavoring compound used in preparing beverages. No. 150,803; Jan. 10.
- Eng-Skell Company, Inc., San Francisco, Calif. Nonalcoholic maltless beverage, and compound for flavoring the same. No. 151,125; Jan. 24.
- Eng-Skell Company, Inc., San Francisco, Calif. Flavoring compound for use in food sirups, candies, confectionery, etc. No. 151,744; Feb. 14.
- Eng-Skell Company, Inc., San Francisco, Calif. Nonalcoholic, maltless beverages and sirups for flavoring same. No. 152,760; Mar. 7.
- Eng-Skell Company, Inc., San Francisco, Calif. Flavoring compound for use in preparing candies, confectionery, and bakery goods. No. 154,542; Apr. 18.
- Eng-Skell Company, Inc., San Francisco, Calif. Flavoring extracts and sirups, confections, fruits, etc. Nos. 159,872-3; Oct. 10.
- Engson, Edward, St. Paul, Minn. Polish for certain named purposes. No. 153,161; Mar. 14.
- Enola Cosmetic Co., San Francisco, Calif. Certain toilet preparations. No. 160,858; Oct. 31.
- Enoz Chemical Company, Chicago, Ill. Insecticide. Nos. 150,349-50; Jan. 3.
- Enoz Chemical Company, Chicago, Ill. Rodent poison. No. 150,348; Jan. 3.
- Enoz Chemical Company, Chicago, Ill. Insecticides, rodent poisons, insect preventives. No. 153,712; Mar. 28.
- Enoz Chemical Company, Chicago, Ill. Insecticide. No. 157,941; Aug. 22.
- Euro Shirt Company, Louisville, Ky. Dress and outer shirts, undershirts, collars, pyjamas, and drawers. No. 162,068; Dec. 5.
- Ensign Shoe Co., The, Belfast, Me. Shoes made wholly or in part of leather. No. 162,069; Dec. 5.
- Enterprise Brass and Plating Company, The, Cincinnati, Ohio. Engine ignition timers. No. 153,162; Mar. 14.
- Enterprise Manufacturing Company, The, Akron, Ohio. Fishing reels. No. 154,927; May 16.
- Enterprise Manufacturing Company, The, Akron, Ohio. Snelled hooks, gut leaders, and artificial flies. No. 161,129; Nov. 7.
- Enterprise Manufacturing Company, The, Akron, Ohio. Artificial minnows and fishing lines. No. 161,130; Nov. 7.
- Enterprise Manufacturing Company, The, Akron, Ohio. Drag handles for fishing reels. No. 161,937; Nov. 28.

Alphabetical list of registrants of trade-marks—Continued.

- Ephraim Sanitary Canning Company, Ephraim, Utah. Canned vegetables. No. 159,619; Sept. 26.
- Ephraim Sanitary Canning Company, Ephraim, Utah. Canned vegetables. No. 162,501; Dec. 19.
- Epstein-Chas. Douglas Co., The, Rochester, N. Y. Men's and young men's suits and overcoats. No. 150,804; Jan. 10.
- Epstein, Isaac, Newark, N. J. Smoked sardines. No. 156,864; July 18.
- Epstein Underwear Co., New York, N. Y. Certain articles of clothing. No. 162,502; Dec. 19.
- Equinox Mountain Spring, Inc., New York, N. Y. Maple sirup, maple sugar, maple cream, maple-sugar candy. No. 152,393; Feb. 28.
- Equipment Corporation of America, Wilmington, Del., and Chicago, Ill. Motor-driven tractor trucks. No. 152,761; Mar. 7.
- Equitable Trust Company of New York, trustee. (See Townes Brothers & Co., assignors.)
- Equity Growers & Shippers Association, Hamilton, Mont. Fresh apples. No. 155,681; June 6.
- Erb, C. F., & Son, Fort Thomas, Ky. Candy. No. 159,349; Sept. 26.
- Erb, George T., Maspeth, N. Y. Acetyl salicylic acid. No. 154,274; Apr. 11.
- Erbes, William O., Goldendale, Wash. Phonographs and talking machines. No. 152,582; Feb. 28.
- Erhard, F. W., Galveston, Tex. Blank books, loose-leaf ledger sheets, billheads, statements, etc. No. 155,955; June 13.
- Erhardt, Walter L., St. Louis, Mo. Antiseptics. No. 152,162; Feb. 21.
- Erickson, C. E., Co. Inc., Des Moines, Iowa. Towel and broom holders. No. 154,928; May 16.
- Erickson, Frank E., Duluth, Minn. Constipation pencils. No. 158,212; Aug. 29.
- Erie Flour Company. (See Scanlan, Michael.)
- Eriksen, George N., Newark, N. J. Liquid nail enamel. No. 156,239; June 20.
- Erlanger, N. Blumgart & Co. Inc., New York, N. Y. Cotton, silk, etc., piece goods. No. 152,394; Feb. 28.
- Erlanger, N. Blumgart & Co., Inc., New York, N. Y. Linen, cotton, silk, and mixed piece goods. No. 152,583; Feb. 28.
- Erlanger, N., Blumgart & Co. Inc., New York, N. Y. Cotton textiles in the piece. Nos. 159,692-3; Oct. 3.
- Erlanger, N., Blumgart & Co., Inc., New York, N. Y. Cotton textiles in the piece. Nos. 161,461-2; Nov. 14.
- Erlanger, August, New York, N. Y. Medicinal preparation for treatment of certain diseases. No. 151,468; Feb. 7.
- Erwin Cotton Mills Co., The, West Durham, N. C. Canton flannels, tickings, coat cloths, sheetings, and drills in the piece. No. 156,240; June 20.
- Erwin Cotton Mills Co., The, West Durham, N. C. Cotton goods in the piece. No. 152,163; Feb. 21.
- Erwin Cotton Mills Co., The, West Durham, N. C. Denims in the piece. No. 150,805; Jan. 10.
- Erwin Cotton Mills Co., The, West Durham, N. C. Sheets and pillowcases and cotton goods in the piece. No. 152,164; Feb. 21.
- Escofet y Haag, Rafael, Tarragona, Spain. Unfermented grape juice, etc. No. 152,038; Feb. 14.
- Escofet, Rafael, Tarragona, Spain. Unfermented grape juice and juice of other fruits. No. 152,395; Feb. 28.
- Eshleman, Amy M., Lancaster, Pa. Dolls. No. 153,163; Mar. 14.
- Eskimo Pie Corporation. (See Russell Stover Company, assignor.)
- Esmond Mills, The, New York, N. Y. Certain textile fabrics. No. 158,944; Sept. 19.
- Esmond Mills, The, New York, N. Y. Blankets, robes, rugs, ribbons, comfortables, and mattress protectors. No. 159,694; Oct. 3.
- Esposito, Tony, Los Angeles, Calif. Preparation for the hair to promote the growth thereof and as a cure for dandruff. No. 161,131; Nov. 7.
- Essayan, Harold G., Providence, R. I. Certain articles of jewelry and precious metal ware. No. 155,415; May 30.
- Essence de L'âme Perfume Co. Inc., New York, N. Y. Perfumed paper, writing paper, envelopes, and visiting cards. No. 155,956; June 13.
- Essex Press, Inc., The, Newark, N. J. Books, booklets, catalogues, printed and engraved matter, etc. No. 151,750; Feb. 14.
- Essex Rubber Company, Trenton, N. J. Rubber soles and heels. No. 157,052; July 25.
- Estabrook, Ralph H., Fitchburg, Mass. Medicinal preparation for female disorders. No. 153,713; Mar. 28.
- Estate of A. C. Decker, doing business as Decker Manufacturing Company, Keokuk, Iowa. Implement for applying rings to the noses of animals. No. 160,171; Oct. 17.
- Estate of A. C. Decker, doing business as Decker Manufacturing Company, Keokuk, Iowa. Lever-handle instruments for slitting the noses of hogs and marking the ears of animals. Nos. 162,058-9; Dec. 5.
- Estate of Edwin Colson. (See Colson, Sarah A. and J. L.)
- Estate of John E. Townsend, Milton, N. H. Cotton and wool blankets. No. 156,932; July 18.
- Estate of Joseph J. Schaefer, Dayton, Ohio. Cigars. Nos. 156,919-20; July 18.
- Esterbrook Steel Pen Mfg. Co., The, Camden, N. J. Pens and fountain pens. No. 160,466; Oct. 24.
- Estes, Clifford W. (See Estes, Webster C., assignor.)
- Estes, Webster C., New York, N. Y., assignor to C. W. Estes, Gorham, N. H. Painters' smalt. No. 21,887; renewed Oct. 25, 1922.
- Esty, Irving P., Providence, R. I. Lubricating oil. No. 161,509; Nov. 14.
- Etablissements Dorsay. (See Bordeaux & New York Trading Co.)
- Etablissements Reynier. (See Reynier & Cie., assignors.)
- Eucalot Co., Quincy, Ill. Emollient antiseptic medicine. No. 150,351; Jan. 8.
- Euclid Candy Co., The, Cleveland, Ohio. Candies. No. 153,714; Mar. 28.
- Euclid Candy Company, The, Cleveland, Ohio. Candy. No. 155,684; June 6.
- Euclid Candy Company, The, Cleveland, Ohio. Candy. No. 155,957; June 13.
- Euclid Candy Company, The, Cleveland, Ohio. Candy. No. 156,241; June 20.
- Euclid Candy Company, The, Cleveland, Ohio. Candy. No. 158,660; Sept. 12.
- Eugol Motor Truck Co. (See Goldman, Eugene.)
- Eureka Battery Company, Chicago, Ill. Storage batteries. No. 160,859; Oct. 31.
- Eureka Metal Polish Co. (Inc.), Chicago, Ill. Automobile and furniture polishes. No. 161,769; Nov. 21.
- Eureka Steel Range Co., O'Fallon, Ill., and St. Louis, Mo. Steel coal, wood and combination of coal and gas and wood and gas ranges. Nos. 157,053-4; July 25.
- Eustis, J. P., Manufacturing Company, Cambridge, Mass. Player pianos and player attachments for such or similarly-keyed musical instruments. No. 150,806; Jan. 10.
- Euthola Mfg. Co., St. Louis, Mo. Face powders, face creams, cold creams, hair grower, and rouges. No. 150,807; Jan. 10.
- Evans Builders Company, The, Uhrichsville and Cincinnati, Ohio, and Washington, D. C. Certain building materials. No. 152,396; Feb. 28.
- Evans, David G., Coffee Company, St. Louis, Mo. Coffee, tea, spices, vinegar, and flavoring extracts. No. 157,055; July 25.
- Evans, David G., Coffee Co., St. Louis, Mo. Coffee, tea, spices, vinegar, and flavoring extracts for foods. No. 158,661; Sept. 12.
- Evans, Henry, Washington, D. C. Solution for cleaning kid gloves, etc. No. 150,352; Jan. 3.
- Evans, S. W., & Son, Philadelphia, Pa. Umbrella and parasol ribs. No. 162,503; Dec. 19.
- Evans, Wm. G., Kansas City, Mo. Liquid antiplogistic dressing. No. 156,242; June 20.
- Evening News Association, doing business as The Detroit News, Detroit, Mich. Newspaper section. No. 157,671; Aug. 15.
- Ever Ready Garment Bag Co., The, New York, N. Y. Moth and dust proof garment bags. No. 158,945; Sept. 19.
- Everett, Edward A., trading as Railroad Accessories Corporation, Long Island City, N. Y. Lightning arresters. No. 156,667; July 11.
- Everett Electric Corporation, New York, N. Y. Head receivers, condensers, transformers, etc. No. 160,860; Oct. 31.
- Everett, Heaney & Co. Inc., New York, N. Y. Cotton piece goods. Nos. 161,463-4; Nov. 14.
- Everett, Heaney & Co. Inc., New York, N. Y. Printed shirts and percales. No. 162,742; Dec. 26.
- Everett Mills, Lawrence and Boston, Mass. Cotton piece goods. No. 161,465; Nov. 14.
- Everett Mills, Lawrence and Boston, Mass. Cotton piece goods. No. 162,743; Dec. 26.
- Everitt, C. M., and J. P. Todd, Inc., Seattle, Wash. Canned fish. No. 160,467; Oct. 24.
- Everybody's Garter Co., New York, N. Y. Garters. No. 155,958; June 13.
- Everybody's Talking Machine Company, Philadelphia, Pa. Reproducers and needles for talking machines. No. 155,571; May 30.
- Everybody's Talking Machine Company, Philadelphia, Pa. Springs for talking machines. No. 158,213; Aug. 29.
- Everyday Piston Ring Company, Inc., Rochester, N. Y. Piston rings. No. 160,179; Oct. 17.
- Ewell Fruit Company, Watsonville, Calif. Dehydrated fruit, (apples.) No. 153,715; Mar. 28.
- Ewing, Joseph H., Kansas City, Mo. Mattless noncereal beverage and sirup from which it is made. No. 150,253; Jan. 3.
- Excel Leather Co., Boston, Mass. Leathers. No. 154,019; Apr. 4.
- Excel Mfg. Company, Milwaukee, Wis. Billiard and pocket tables. No. 152,584; Feb. 28.
- Excelsior Quilting Company, New York, N. Y. Quilted mattress protectors, table pads, padding, and nursery cloth. No. 150,808; Jan. 10.
- Excelsior Shoe Company, The, Portsmouth, Ohio. Shoes and boots. No. 157,056; July 25.
- Excelsior Tobacco Co., St. Louis, Mo. Smoking and chewing tobacco. No. 160,468; Oct. 24.
- Excelsior Wrapper Company, Chicago, Ill. Excelsior, excelsior products. No. 157,057; July 25.
- Excelsior Wrapper Company, Chicago, Ill. Excelsior and excelsior products. No. 161,132; Nov. 7.
- Exceptional Pictures Corporation, Wilmington, Del. Motion pictures. No. 157,943; Aug. 22.

Alphabetical list of registrants of trade-marks—Continued.

- Exchange Orange Products Company, The, San Dimas, Calif. Insect poison. No. 151,469; Feb. 7.
- Exene Laboratories, Boston, Mass. Ointment for skin diseases. No. 158,433; Sept. 5.
- Exerswing Company, Minneapolis, Minn. Children's swings. No. 153,166; Mar. 14.
- Expanded Metal Safety Guard Co., Long Island City, N. Y. Open-mesh partitions, guards, steel gratings, etc. No. 162,744; Dec. 26.
- Expert Cap. Mfg. Co. Inc., Trenton, N. J. Silk, felt, cloth, and fur caps. No. 157,944; Aug. 22.
- Eyben, René, New York, N. Y. All kinds of perfumes. No. 154,020; Apr. 4.
- Eyben, René, doing business as Hujarvis, New York, N. Y. Perfumes. No. 157,328; Aug. 1.
- Eyers Drug & Chemical Co., Gloucester, Mass. Skin ointment. No. 154,929; May 16.
- F. I. A. T., New York, N. Y. Automobiles. No. 160,477; Oct. 24.
- F & W Manufacturing Company, Fresno, Calif. Windshield visors. No. 162,745; Dec. 26.
- Fabig, Robert, Gesellschaft mit beschränkter Haftung, Maschinen-u. Apparate-Fabrik, Neuruppin, Germany. Typewriting machines and parts thereof. No. 160,640; Oct. 24.
- Fables Pictures, Inc., New York, N. Y. Animated cartoons, the same being motion-picture films. Nos. 150,809-10; Jan. 10.
- Fabricated Steel Products Corporation, New York, N. Y., and Leetonia, Ohio. Receptacles, particularly classed as tanks. No. 152,397; Feb. 28.
- Fabrique d'Horlogerie de Fontainemelon S. A., Fontainemelon, Switzerland. Watch blanks. Nos. 157,058-9; July 25.
- Fabrique De Montres Selva, S. A., Bienne, Switzerland. Watches and parts of watches. No. 151,751; Feb. 14.
- Fagan, Hosea B., Burlington, Iowa. Malt sirup for food purposes. No. 152,762; Mar. 7.
- Pagan, K. B., Burlington, Iowa. Concentrated extract of malt sugar used for food purposes. No. 151,752; Feb. 14.
- Fahrney, Dr. Peter, & Sons Co., Chicago, Ill. Certain tonic. No. 155,416; May 30.
- Fahrney, Dr. Peter, & Sons Co., Chicago, Ill. Medicinal preparation. Nos. 157,329-31; Aug. 1.
- Fahrney, Dr. Peter, & Sons Co., Chicago, Ill. Certain medicinal preparation. Nos. 157,332-3; Aug. 1.
- Fahrney, Dr. Peter, & Sons Co., Chicago, Ill. Certain medicinal preparation. No. 158,434; Sept. 5.
- Fain, Irving, Brooklyn, N. Y. Certain articles of clothing. No. 159,180; Sept. 19.
- Fair, The, Chicago, Ill. Leather shoes. No. 156,119; June 13.
- Fair, The, Chicago, Ill. Men's hats. No. 156,120; June 13.
- Fair, The, Chicago, Ill. Shoes. Nos. 156,243-4; June 20.
- Fair, The, Chicago, Ill. Cigars. No. 158,946; Sept. 19.
- Fair, The, Chicago, Ill. Men's hats. No. 160,180; Oct. 17.
- Fairbairn, Robert A., New Market, N. J. Horses and mules. No. 151,126; Jan. 24.
- Fairbank, N. K., Company, The. (See Wilcox, W. J., Lard and Refining Company, assignors.)
- Fairbanks Co., The, New York, N. Y. Steel factory equipment. No. 150,355; Jan. 3.
- Fairbanks Co., The, New York, N. Y. Hardware. No. 150,356; Jan. 3.
- Fairbanks Company, The, New York, N. Y. Certain cutlery, machinery, and tools. No. 153,167; Mar. 14.
- Fairbanks Co., The, New York, N. Y. Babbitt metal and anvils and self-hardening tool steel. No. 153,716; Mar. 28.
- Fairbanks Co., The, New York, N. Y. Rubber fabric or rubber and fabric gaskets, etc. No. 154,021; Apr. 4.
- Fairbanks Co., The, New York, N. Y. Steel and stencil pattern outfits, bevils, calipers, etc. No. 156,668; July 11.
- Fairchild Bros. & Foster, New York, N. Y. Preparation of the pancreas gland designed for internal use in the treatment of pancreatic insufficiency. No. 161,133; Nov. 7.
- Fairfacts Company, The, New York, N. Y. Certain bathroom fixtures. No. 162,070; Dec. 5.
- Fairmont Creamery Co., The, Omaha, Nebr. Buttermilk powder. No. 162,431; Dec. 12.
- Fairmont Gas Engine & Railway Motor Car Co., Fairmont, Minn. Gasoline and hand-car engines. No. 158,214; Aug. 29.
- Fairmont Gas Engine & Railway Motor Car Co., Fairmont, Minn. Railway motor cars and pressed-steel car wheels. No. 160,469; Oct. 24.
- Fairview Grape Growers Ass'n, Sanger, Calif. Fresh grapes. No. 157,060; July 25.
- Fairy Dye Co., Chicago, Ill. Cloth dyes. No. 151,470; Feb. 7.
- Fairy Gift Company, Cincinnati, Ohio. Certain toy play boxes. No. 161,938; Nov. 28.
- Fallice & Perrelli Canning Co., Gilroy, Calif. Canned vegetables and fruits. No. 159,351; Sept. 26.
- Falk, American Potato Flour Corporation, Pittsburgh, Pa. Potato flour. No. 151,753; Feb. 14.
- Falk Tobacco Company, Incorporated, New York, N. Y. Cigars, cigarettes, tobacco. No. 152,763; Mar. 7.
- Falk Tobacco Company Incorporated, New York, N. Y. Cigars, cigarettes, smoking and chewing tobacco. No. 155,959; June 13.
- Falk Tobacco Company, Incorporated, New York, N. Y. Cigarettes. Nos. 160,470-1; Oct. 24.
- Famo Cigar, Milwaukee, Wis. Cigars, cheroots, and cigarettes. No. 161,939; Nov. 28.
- Famo Nut Co., Los Angeles, Calif. Chocolate candies and chocolate-covered nuts. No. 160,472; Oct. 24.
- Famous Manufacturing Company, The. (See Harden, Harry.)
- Fan Tan Novelty Co., New York, N. Y. Hair nets. No. 155,226; May 23.
- Fantis & Cutsogorge, New York, N. Y. Olive oil. No. 151,471; Feb. 7.
- Far East Products Co., Yonkers, N. Y. Face powders, cold creams, etc. No. 151,472; Feb. 7.
- Farah, Kalil, Toronto, Ontario, Canada. Bedsteads, couches, reclining chairs, and hospital bedsteads. No. 153,439; Mar. 21.
- Färberer Glauchau, vormals Otto Seyfert, Glauchau, Germany, assignor to The Chemical Foundation, Incorporated. Dyes or colors. No. 21,842; renewed Oct. 4, 1922.
- Farbwerke, vormals Meister, Lucius & Bruning, Höchst-on-the-Main, Germany. Basic gallate of bismuth. No. 20,156; renewed Sept. 22, 1921.
- Farbwerke, vormals Meister, Lucius & Bruning, Höchst-on-the-Main, Germany. Remedy for fevers, tuberculosis, abscesses, and rheumatism. No. 20,452; renewed Dec. 8, 1921.
- Farbwerke, vormals Meister, Lucius & Brünig, Höchst-on-the-Main, Germany, assignor to The Chemical Foundation, Inc. Remedy for phthisis. Nos. 20,617-18; renewed Jan. 19, 1922.
- Farkas, George, New York, N. Y. Women's, misses', and children's dresses and frocks. No. 156,865; July 18.
- Farmers' Commission House, Inc., New York, N. Y. Live and dressed ducks. No. 151,754; Feb. 14.
- Farmers Terminal Packing Company, Newport, St. Paul, and Minneapolis, Minn. Cured meats, sausage, and lard. No. 159,181; Sept. 19.
- Farran-Kinney Company, Chicago, Ill. Belts and belting for automobile and power transmission. No. 159,874; Oct. 10.
- Farrelly, Joseph, New Rochelle, N. Y. Massage cream for the ankles. No. 153,440; Mar. 21.
- Farrington, G. B., Company, The, New York, N. Y. Coffee. No. 156,513; June 27.
- Farwell, John V., Company, Chicago, Ill. Handkerchiefs. Nos. 162,746-7; Dec. 26.
- Farynyk, Nikolai, Allentown, Pa. Healing salves for wounds, cuts, and bruises. No. 155,685; June 6.
- Fasseas & Onofrio, Detroit, Mich. Coffee. No. 151,755; Feb. 14.
- Fastfeed Drill & Tool Corporation, The, Toledo, Ohio. Drills, reamers, end mills, and slitting saws. No. 156,514; June 27.
- Fatt, Joseph J., New York, N. Y. Men's outer garments. No. 157,061; July 25.
- Faulds, T. A., Company, Boston, Mass. Prepared flour for cakes and pastry. No. 153,441; Mar. 21.
- Faulk, Maximilian N., Philadelphia, Pa. Shirt-waist hangers. No. 162,748; Dec. 26.
- Faultless Nightwear Corporation (E. Rosenfeld and Co.). (See Rosenfeld, E., & Company, assignor.)
- Faultless Rubber Company, The, Ashland, Ohio. Squawkers, balloons, balls, dolls, and animals, all made of rubber. No. 155,322; May 23.
- Faultless Rubber Company, The, Ashland, Ohio. Certain named surgical appliances. No. 155,323; May 23.
- Faultless Rubber Company, The, Ashland, Ohio. Golf balls. Nos. 160,473-4; Oct. 24.
- Faupel, William, London, England. Medicine used against cancer, stomach and liver troubles, and as a blood purifier. No. 154,930; May 16.
- Fawcett, Wilford H., Robbinsdale, Minn. Monthly publication. No. 158,662; Sept. 12.
- Fay, Eli P., Los Angeles, Calif. Battery separator. No. 152,767; Mar. 7.
- Fayart, Ernest J., Springfield, Ill. Abdominal bandages and supporters. No. 154,931; May 16.
- Federal Asbestos Co., The, Milwaukee, Wis. Prepared roofing, cements, and air-cell paper. No. 154,022; Apr. 4.
- Federal Asbestos Co., The, Milwaukee, Wis. Prepared roofing. Nos. 154,023-4; Apr. 4.
- Federal Automobile Painting & Trimming Company, Detroit, Mich. Automobile cushions and radiator covers. No. 160,475; Oct. 24.
- Federal Bridge and Structural Co., Waukesha, Wis. Metal window sashes. No. 155,686; June 6.
- Federal Cedar Mill Co. Ltd., Vancouver, British Columbia, Canada. Lumber and shingles. No. 152,764; Mar. 7.
- Federal Gauge Company, The, Chicago, Ill. Certain circuit-controlling and pressure-controlling devices and mercury tubes. No. 156,669; July 11.
- Federal Grocery Co., Los Angeles, Calif. Canned fruits, fish, and vegetables, spices, peanut butter, etc. No. 158,441; Sept. 5.
- Federal Grocery Co., also doing business as The Rock Bottom Stores, Los Angeles, Calif. Canned vegetables, fruit, and fish, coffee, bread, etc. No. 162,071; Dec. 5.

Alphabetical list of registrants of trade-marks—Continued.

- Federal Machine and Welder Co., The, Warren, Ohio. Electric welders and parts thereof. No. 151,473; Feb. 7.
- Federal Mill & Elevator Co. Inc., Lockport, N. Y. Wheat flour. No. 152,765; Mar. 7.
- Federal Phonograph Co. Inc., assignor to Paul B. Klugh, New York, N. Y. Phonographs. No. 154,932; May 16.
- Federal Rubber Company, Cudahy, Wis. Hoof pads made wholly or partly of rubber. Nos. 150,357-9; Jan. 3.
- Federal Rubber Company, The, Cudahy, Wis. Heels and soles made wholly or partly of rubber. Nos. 150,811-13; Jan. 10.
- Federal Rubber Company, The, Cudahy, Wis. Hoof pads. Nos. 151,127-8; Jan. 24.
- Federal Rubber Company, The, Cudahy, Wis. Mallets made wholly or partly of rubber. Nos. 151,474-6; Feb. 7.
- Federal Rubber Company, The, Cudahy, Wis. Repair gums, rubber cement. No. 152,769; Mar. 7.
- Feeler, William H., doing business as National Laboratories, Monrovia, Calif. Liquid for polishing automobiles and furniture. No. 158,947; Sept. 19.
- Fegley, Oscar G., Philadelphia, Pa. Medicine for certain named purposes. No. 155,324; May 23.
- Fell, S. R., doing business as The Ivo-San Laboratory, Cleveland, Ohio. Vermifuge and stock conditioner. No. 161,134; Nov. 7.
- Feldman & Weinman, Baltimore, Md. Work shirts. No. 158,948; Sept. 19.
- Feldman & Weinman, Baltimore, Md. Work shirts. Nos. 161,466-7; Nov. 14.
- Feldstein, Abraham D., New York, N. Y. Men's caps. No. 159,182; Sept. 19.
- Fell, George, & Son Limited, Bolton, England. Leather and skins. No. 155,687; June 6.
- Fels, Hattie, New York, N. Y. Clothing for children to be worn as an outer garment. No. 160,476; Oct. 24.
- Felsberg, Alfred L. & Co., Newark, N. J. Cases and satchels for musical instruments. No. 158,663; Sept. 12.
- Feng Laboratories, Inc., New York, N. Y. Medicinal preparations. No. 157,497; Aug. 8.
- Fennell Stamp Company, St. Louis, Mo. New and cancelled United States and foreign stamps. No. 155,227; May 23.
- Fenton, E. B., M. D. C., Olin, Iowa. Medical compounds for use in the treatment of diseases of the hog, horse, cattle, etc. No. 155,417; May 30.
- Fenton, Henry D., Coldwater, N. Y. Salve for treatment of wounded, sore, or galled horses. No. 151,756; Feb. 14.
- Ferdon, William S., doing business as Mem-O-Ette Co., Omaha, Neb. Blank business forms for receiving indicia and memorandum pads. No. 161,770; Nov. 21.
- Ferguson, B. M., & Co. (See Ferguson, Benjamin M.).
- Ferguson, Benjamin M., doing business as B. M. Ferguson & Co., Chicago, Ill. Soap. No. 162,749; Dec. 26.
- Ferguson, C. W., Collar Co., Troy, N. Y. Men's collars. No. 159,183; Sept. 19.
- Ferguson, John W., Company, Paterson, N. J. Reinforced concrete, brick, timber, and structural steel. No. 160,181; Oct. 17.
- Ferguson, Robert, New York, N. Y. Bias tape. No. 158,435; Sept. 5.
- Ferguson, Walter J., New York, N. Y. Depilatories. No. 158,215; Aug. 29.
- Ferguson, W. M., Fresno, Calif. Rugs. No. 152,398; Feb. 28.
- Ferguson, Alan R., Buffalo, N. Y. Electric signal holders and traffic-signal devices. No. 155,688; June 6.
- Ferond, Jules, Company, Inc., New York, N. Y. Hair grower and tonic. No. 150,428; Jan. 3.
- Ferrara, William J., Charleston, S. C. Salves for skin eruptions and sores. No. 151,477; Feb. 7.
- Ferré, Docteur H., & Cie., Paris, France. Medicines for venereal diseases. No. 155,960; June 13.
- Ferrera, Giuseppe, Corona, N. Y. Liniment for rheumatism. No. 158,949; Sept. 19.
- Ferrone, Filippo, New York, N. Y. Certain medicinal preparation. No. 155,418; May 30.
- Fetterolf, H. G., Company, Philadelphia, Pa. Wool rugs and carpets. No. 158,157; Aug. 22.
- Fewell, Glenmore B., Birmingham, Ala. Antiseptic mouth wash for pyorrhea and diseases of gums. No. 157,945; Aug. 22.
- Fey, Jacob M., Hazleton, Pa. Coffee, mayonnaise, peanut-butter, horse-radish. No. 162,245; Dec. 12.
- Fiala Arms Company, New York, N. Y. Pistols, rifles, and combination pistols and rifles. No. 152,770; Mar. 7.
- Fiat, Turin, Italy. Boards, panels of wood, sheets and panels of veneer, and metal reinforcing bars. No. 160,478; Oct. 24.
- Fiat, Turin, Italy. Certain electrical apparatus, machines, and supplies. No. 160,861; Oct. 31.
- Fiat, Turin, Italy. Certain metals and alloys and products thereof. No. 162,072; Dec. 5.
- Fiblow Mills Co., The. (See Ismert-Hincke Milling Company.)
- Fiedler, Irving, Chicago, Ill. Parlor baseball games. No. 156,245; June 20.
- Field, Alfred, & Co., Inc., New York, N. Y. Certain cutlery and tools. No. 162,073; Dec. 5.
- Field, George C., Newark, N. J. Soap. No. 155,419; May 30.
- Field & Stream Publishing Company, New York, N. Y. Annual periodical. No. 152,026; Feb. 14.
- Field Laboratories, The. (See Berkenfield, Irving.)
- Fierheller, George, Toronto, Ontario, Canada. Combined sponge and washrag. No. 157,062; July 25.
- Figaro Chemical Co., Dallas, Tex. Egg-preserving compound. No. 152,165; Feb. 21.
- Fiene's, Wm., Sons Company, Boston, Mass. Boots and shoes. No. 155,961; June 13.
- Fiene's, Wm., Sons Company, Boston, Mass. Women's, misses', girls', and children's hats. No. 155,962; June 13.
- Fiene's, Wm., Sons Company, Boston, Mass. Leather boots and shoes. No. 158,950; Sept. 19.
- Filipowicz, J., & Co., Baltimore, Md. Remedy for the treatment of rheumatism, headache, etc. No. 152,166; Feb. 21.
- Filkins, Roxana, Traverse City, Mich. Certain medicinal preparation. No. 152,167; Feb. 21.
- Fillman, John W., Philadelphia, Pa. Textile hospital blankets. No. 155,228; May 23.
- Filma Oil Burners Limited, London, England. Liquid-fuel burners. No. 160,479; Oct. 24.
- Filmolens Sales Co., Detroit, Mich. Devices for diffusing light, such as lenses for automobile lamps, etc. No. 151,129; Jan. 24.
- Filmusic Company, Los Angeles, Calif. Perforated music rolls or sheets. No. 158,216; Aug. 29.
- Fimmel, Elisabeth, North Branch, N. J. Salve or ointment. No. 158,951; Sept. 19.
- Fineman, A., Baltimore, Md. Coats, vests, trousers, and overcoats. No. 161,361; Nov. 7.
- Finger Cahn Co. Inc., New York, N. Y. Certain articles of clothing. No. 158,952; Sept. 19.
- Fink & Rock, Inc., New York, N. Y. Vanishing cream, almond, and lemon cream, brilliantine, mud massage, etc. No. 160,862; Oct. 31.
- Fink-Cimioti, Inc., New York, N. Y. Ladies' hats. No. 156,866; July 18.
- Fink, Richard, Brooklyn, N. Y. Arsenic complexion wafers. No. 151,478; Feb. 7.
- Finkel, Abraham D., doing business as Sorg Manufacturing Company, Pittsburgh, Pa. Bungalow aprons, dresses, petticoats, and band aprons, nightgowns, and bloomers. Nos. 158,664-5; Sept. 12.
- Finkel, Sarah, New York, N. Y. Medical preparation for skin diseases. No. 152,168; Feb. 21.
- Finkelstein, Morris, doing business as Victory Malt Company, Brooklyn, N. Y. Barley-malt sirup for beverage purposes. No. 160,480; Oct. 24.
- Finkelstein, Morris, doing business as Victory Malt Company, Brooklyn, N. Y. Hop and malt sirup for beverage purposes. No. 160,481; Oct. 24.
- Finkelstein, Morris, doing business as Victory Malt Company, Brooklyn, N. Y. Barley-malt sirup for beverage purposes. No. 160,482; Oct. 24.
- Finkelstein & Sons, Inc., New York, N. Y. Various piece goods. No. 152,169; Feb. 21.
- Finkl, A., & Sons Co., Chicago, Ill. Steel dies. No. 154,933; May 16.
- Finlayson, Estelle B., Ossining, N. Y. Face creams, liquid and dry face powders. No. 150,360; Jan. 3.
- Finlayson Flax Spinning Co., The. (See Linen Thread Co.)
- Finn, John, Jr. Internally-salted nuts. No. 156,670; July 11.
- Finish Cellulose Union, Helsingfors, Finland. Wood pulp. No. 152,771; Mar. 7.
- Finstone, Marx, New York, N. Y. Fountain pens. No. 153,372; Mar. 14.
- Fire-Proof Furniture and Construction Company, New York, N. Y., and Miamisburg, Ohio, assignor to Steel Equipment Corporation, New York, N. Y. Safes and office safes. No. 150,814; Jan. 10.
- Fire-Proof Furniture and Construction Company, New York, N. Y., and Miamisburg, Ohio, assignor to Steel Equipment Corporation, New York, N. Y. Certain articles of household and office furniture. No. 150,815; Jan. 10.
- Fireproof Products Co. Inc., The, New York, N. Y. Roof coating consisting of oil and asbestos fiber and mastic roofing cement. No. 152,399; Feb. 28.
- First Aid Syrup Co., The. (See Silverman, E. & H.)
- Firth, John, & Co., Inc., New York, N. Y. Certain electrical apparatus. No. 156,671; July 11.
- Firth-Sterling Steel Company, McKeesport, Pa. Tool steel and die steel in the form of bars, blocks, and disks. No. 154,934; May 16.
- Fisch, Abraham, Los Angeles, Calif. Hooded coats and bath robes. No. 150,816; Jan. 10.
- Fischel Paper Co., Inc., Albany, N. Y. Bond, ledger, book, cover, and writing paper. No. 153,442; Mar. 21.
- Fischer, Albert C., doing business as Serviced Products Company, Chicago, Ill. Roofing and barn paints, cold-water, oil, metal, and dampproofing paints. No. 160,182; Oct. 17.
- Fischer, Albert C., doing business as Serviced Products Company, Chicago, Ill. Certain named clothing, hose, etc. No. 161,135; No. 7.
- Fischer, B., & Co. Inc., New York, N. Y. Coffee. No. 154,545; Apr. 18.
- Fischer, Carl, New York, N. Y. Violin strings. No. 154,935; May 16.

- Fischer, J. & C., New York, N. Y. Phonographs. No. 156,672; July 11.
- Fischer, J. & C., New York, N. Y. Phonographs. No. 162,246; Dec. 12.
- Fischer, Rose, New York, N. Y. Lip and face creams. No. 152,772; Mar. 7.
- Fish, Frank M., Beloit, Wis. Locks for automobiles. No. 161,771; Nov. 21.
- Fishelov, H., & Company, Chicago, Ill. Certain toys. No. 150,817; Jan. 10.
- Fisher Flouring Mills Company, Seattle, Wash. Wheat flour. No. 153,169; Mar. 14.
- Fisher Flouring Mills Company, Seattle, Wash. Wheat flour. Nos. 162,750-1; Dec. 26.
- Fisher, Guyton, Jr., Macon, Ga. Medicinal preparation. No. 153,717; Mar. 28.
- Fisher, Katherine, Chicago, Ill. Dolls. No. 153,718; Mar. 28.
- Fisher, Nath'l & Co., New York, N. Y. Boots, shoes, slippers, and soles therefor. No. 152,098; Feb. 14.
- Fisheries, J. L., Corporation, New York, N. Y. Cold-storage tanks and rooms with complete machinery for cooling and preserving fresh fish. No. 150,818; Jan. 10.
- Fisk Rubber Company, The, Chicopee Falls, Mass. Tire-repair material for rubber tires. No. 151,064; Feb. 14.
- Fisk Rubber Company, The, Chicopee Falls, Mass. Tires and accessories. No. 154,025; Apr. 4.
- Fisk Rubber Company, The, Chicopee Falls, Mass. Rubber tires, particularly the outer casings of automobile tires. No. 157,063; July 25.
- Fites, Welcome E., San Francisco, Calif. Glue adhesive paste and mullage. No. 155,325; May 23.
- Fitzgerald Flour Co., Janesville, Wis. Wheat flour. No. 159,876; Oct. 10.
- Fitzgerald, John W., Boston, Mass. Both filing and mailing envelopes, file folders, and file pockets. No. 150,354; Jan. 3.
- Fitzgerald, John W., trading as Ames Safety Envelope Company, Boston, Mass. Envelopes, file folders, file pockets. No. 158,217; Aug. 29.
- Fitzgerald Mfg. Company, The, Torrington, Conn. Electric toaster, air heater, and hair drier. No. 158,666; Sept. 12.
- Fitzgerald Mfg. Company, The, Torrington, Conn. Electric massage vibrators, etc. No. 158,953; Sept. 19.
- Fitzgerald, Stephen A., Brooklyn, N. Y. Massaging liniment. No. 161,136; Nov. 7.
- Fitzpatrick Bros., Chicago, Ill. Soap chips. No. 151,029; Jan. 10.
- Fitzpatrick Bros., Chicago, Ill. Soaps. Nos. 151,757-8; Feb. 14.
- Fitzpatrick Bros., Chicago, Ill. Soap. No. 162,637; Dec. 19.
- Fixem Mfg. Co., The, Detroit, Mich. Preparation used in the treatment of sore feet. No. 161,137; Nov. 7.
- Flagg, Andrew B., trading as Flagg & Mowry, North Attleboro, Mass. Vanity cases. No. 158,667; Sept. 12.
- Flagg & Mowry. (See Flagg, Andrew B.)
- Flanigan, Albert R., Williamsport, Pa. Medicinal preparation for rheumatism, gout, lame back, lumbago, and kidney and bladder disease. No. 153,926; Mar. 28.
- Flannery Bolt Company, Wilmington, Del., and Pittsburgh, Pa. Boiler stay bolts, track, frog, and switch bolts, and nuts, etc. No. 155,889; June 6.
- Flannery Bolt Company, Pittsburgh, Pa. Grease cups. No. 156,246; June 20.
- Flannery Bolt Company, Wilmington, Del., and Pittsburgh, Pa. Boiler and semirigid and flexible stay bolts, track, frog, and switch bolts, and nuts. No. 158,342; Aug. 29.
- Flannery Bolt Company, Wilmington, Del., and Pittsburgh, Pa. Boiler stay bolts, track, frog, and switch bolts and nuts, and stay bolts. No. 161,468; Nov. 14.
- Flax, Abraham, New York, N. Y. Children's suits, dresses, rompers, shirts, waists, etc. No. 154,546; Apr. 18.
- Fleetwood Metal Body Co., Fleetwood, Pa. Automobile bodies, tire carriers, and bumpers. No. 162,432; Dec. 12.
- Fleischer, Frank M., Pittsburgh, Pa. Nonalcoholic maltless beverage and flavoring for same. No. 150,819; Jan. 10.
- Fleischer, Joseph, New York, N. Y. Face and hair nets. No. 152,063; Feb. 14.
- Fleischer, Joseph, New York, N. Y. Hair nets. No. 156,569; June 27.
- Fleischer, Joseph, doing business as The Fleischer & Co., New York, N. Y. Hair nets. No. 157,618; Aug. 8.
- Fleischer, Joseph, New York, N. Y. Hair nets. No. 158,668; Sept. 12.
- Fleischer & Co., The. (See Fleischer, Joseph.)
- Fleischl, Emil, & Son, New York, N. Y. Creamy butter. No. 159,352; Sept. 26.
- Fleischmann Company, The, Cincinnati, Ohio, and New York, N. Y. Compressed yeast and yeast mixtures. No. 151,760; Feb. 14.
- Fletcher Albion Needle Co., San Antonio, Tex. Phonograph needles. No. 155,326; May 23.
- Fletcher Oil Company, Boise, Idaho. Petroleum products—namely, lubricating oils and greases, gasoline. No. 152,773; Mar. 7.
- Fletcher, Robert, & Son Ltd. (See Fletcher, Robert, & Son, assignor.)
- Fletcher, Robert, & Son, Stoneclough, England, assignor to Robert Fletcher & Son Ltd. Tissue paper. No. 20,232; renewed Oct. 20, 1921.
- Fleming, H. L., doing business as H. L. Fleming Laboratory. Tooth paste. No. 153,218; Aug. 29.
- Fleming, H. L., Laboratory. (See Fleming, H. L.)
- Flexlume Corporation. (See Flexlume Sign Company.)
- Flexlume Sign Company, Buffalo, N. Y. Electrically-illuminated signs. No. 160,863; Oct. 31.
- Flexlume Sign Company (now by change of name Flexlume Corporation), Buffalo, N. Y. Electrically-illuminated signs. No. 162,247; Dec. 12.
- Flexstone Flooring Company, The, Columbus, Ohio. Composition flooring. No. 152,400; Feb. 28.
- Flintkote Company, The, Boston, Mass. Roofing materials. No. 160,093; Oct. 10.
- Flintkote Company, The, Boston, Mass. Roofing and flooring materials. No. 160,183; Oct. 17.
- Flintkote Company, The, Boston, Mass. Sheathing and building paper. No. 160,184; Oct. 17.
- Flock Manufacturing Company, The, Philadelphia, Pa. Thread and yarn. No. 157,064; July 25.
- Flood, Daniel A., Okmulgee, Okla. Ointment having medicinal properties. No. 150,361; Jan. 3.
- Flood, William, Company, The, Cleveland, Ohio. Liquid stains. No. 153,564; Mar. 21.
- Flood, William Company, The, Cleveland, Ohio. Liquid stains. No. 155,127; May 16.
- Floramol Chemical Co. (See Palmer, Charles E.)
- Florence Chemical Company, The. (See Waldkoenig, Florence A.)
- Florence Manufacturing Company, Northampton, Mass. Toothbrushes. No. 158,436; Sept. 5.
- Florence Manufacturing Company, Northampton, Mass. Tooth, hair, nail, flesh, and lather, brushes. No. 158,437; Sept. 5.
- Florence Manufacturing Company, Northampton, Mass.; New York, N. Y., and Chicago, Ill.; W. Cordes, F. N. Look, W. A. Macleod, and G. H. Burr, trustees and their successors, doing business as Florence Manufacturing Company. Dentifrice. No. 21,733; renewed Sept. 13, 1922.
- Flores, Anania, Marianna, Pa. Medicinal toilet preparation. No. 150,362; Jan. 3.
- Flores, Rodolfo, Sedalia, Mo. Powder soap for affections of the skin. No. 150,363; Jan. 3.
- Flores, Rodolfo, Sedalia, Mo. Powder for affections of the skin. No. 152,170; Feb. 21.
- Flores, Rodolfo, Sedalia, Mo. Certain ointment. No. 152,171; Feb. 21.
- Flostik Company, Waltham, Mass. Dental tools, and more particularly dental floss holders. No. 154,275; Apr. 11.
- Fluegelman, N., & Co. Inc., New York, N. Y. Cotton and silk mixture piece goods. No. 152,774; Mar. 7.
- Fluegelman, N., & Co. Inc., New York, N. Y. Cotton piece goods. No. 154,752; Apr. 18.
- Fluegelman, N., & Co. Inc., New York, N. Y. Cotton piece goods. No. 156,253; June 20.
- Flynn, John H., Jr., Cincinnati, Ohio. Tackle blocks. No. 152,401; Feb. 28.
- Foameg Co. (See Winberg, W. Wm.)
- Foerderer, Robert H., Incorporated. (See Foerderer, Robert H., assignor.) (Renewed.)
- Foerderer, Robert H., Philadelphia, Pa., assignor to R. H. Foerderer, Incorporated. Shoes. No. 20,721; renewed Feb. 16, 1922.
- Fold-O-Lock Steering Wheel Mfg. Corp., Wichita, Kans. Steering wheels for motor vehicles. No. 162,752; Dec. 26.
- Foley, E. Y., Fresno, Calif. Fresh grapes, dried fruits, and fresh deciduous fruits. No. 151,762; Feb. 14.
- Foley Edmund Y., Fresno, Calif. Fresh grapes. No. 161,940; Nov. 28.
- Foley, Edmund Y., Fresno, Calif. Fresh grapes. No. 162,074; Dec. 5.
- Foley, Francis P., Philadelphia, Pa. Substance for exterminating rats. No. 154,276; Apr. 11.
- Foley Paper Company, The, Springfield, Mass. Toilet paper. No. 153,373; Mar. 14.
- Foley Paper Company, The, Springfield, Mass. Toilet paper. No. 154,026; Apr. 4.
- Folger, J. A., & Co., San Francisco, Calif. Tea and coffee. No. 151,761; Feb. 14.
- Folger, J. A., & Co., San Francisco, Calif. Baking powder, cream of tartar, soda. No. 152,172; Feb. 21.
- Folger, J. A., & Co., San Francisco, Calif. Coffee, tea, spices, etc. No. 152,775; Mar. 7.
- Follansbee Brothers Company, Pittsburgh, Pa. Ferrous-metal plates and sheets. Nos. 152,585-6; Feb. 28.
- Follansbee Brothers Company, Pittsburgh, Pa. Ferrous metal plates and sheets. No. 154,936; May 16.
- Follansbee Brothers Company, Pittsburgh, Pa. Ferrous-metal plates and sheets. Nos. 158,343-4; Aug. 29.
- Follansbee Brothers Company, Pittsburgh, Pa. Ferrous-metal plates and sheets. No. 161,772; Nov. 21.

Alphabetical list of registrants of trade-marks—Continued.

- Foltz, Frederick P., assignor to J. T. Dickinson, Abingdon, and F. C. Dickinson, Galesburg, Ill. Liniment and ointment. No. 22,121; renewed Dec. 6, 1922.
- Foltz, Stewart P., New Castle, Pa. Metal tokens or saving checks. No. 151,763; Feb. 14.
- Fonyo, Aladar, Chicago, Ill. Mattless powder for making a nonalcoholic beverage. No. 152,776; Mar. 7.
- Foot, Schulze & Co., St. Paul, Minn. Children's leather boots and shoes. No. 162,075; Dec. 5.
- Foot-Burt Company, The. (See Bell Washer and Wringer Company, The, assignor.)
- Foot-Burt Company, The, Cleveland, Ohio. Drilling machines, drills, and other machines. No. 161,773; Nov. 21.
- Foot, Jane, Binghamton, N. Y. Women's dresses. No. 161,138; Nov. 7.
- Forbes Bottling Co., Park Ridge, Ill. Nonalcoholic maltless beverages. No. 162,504; Dec. 19.
- Forbes Tubular Products Corporation, Ramapo, N. Y. Metallic tubing. No. 161,469; Nov. 14.
- Forbes, W. S., & Company, Inc., Richmond, Va. Lard substitute. No. 154,547; Apr. 18.
- Forbriger, Paul, doing business as Paul Forbriger & Co., New York, N. Y. Watches. No. 158,438; Sept. 5.
- Forbriger, Paul, & Co. (See Forbriger, Paul.)
- Ford Flour Company, Nashville, Tenn. Self-rising flour. No. 153,170; Mar. 14.
- Ford Roofing Products Co., Chicago, Ill. Prepared roofing composed of asphalt and felt. No. 153,589; Mar. 21.
- Ford Roofing Products Co., Chicago, Ill. Prepared roofing. No. 155,963; June 13.
- Ford Roofing Products Co., Chicago, Ill. Asphalt shingles. No. 157,414; Aug. 1.
- Ford Roofing Products Co., Chicago, Ill. Asphalt shingles. No. 161,871; Nov. 21.
- Ford & Manion, Inc., Wilmington, Del. Electric heaters for heating liquids. No. 161,139; Nov. 7.
- Foreland, John H., Corona, Calif. Kidney medicine and nerve tonic. No. 156,247; June 20.
- Foreign Manufacturers Sales Corporation, New York, N. Y. Pistols. No. 152,777; Mar. 7.
- Forest City Bit & Tool Co., Rockford, Ill. Augers, drills, chisels, bits, etc. No. 156,673; July 11.
- Forman Bassett Company, The, Cleveland, Ohio. Safety paper. No. 151,764; Feb. 14.
- Forman & Levinson, New York, N. Y. Hats and caps. No. 160,185; Oct. 17.
- Formica Insulation Company, The, Cincinnati, Ohio. Electric insulating compound. No. 155,639; June 6.
- Forney & Co., Inc., New York, N. Y. Diapers and diaper material. No. 157,065; July 25.
- Forsbacka Jernverks Aktiebolag, Forsbacka, Sweden. Iron and steel. No. 161,941; Nov. 28.
- Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. Nos. 150,364-6; Jan. 3.
- Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. Nos. 152,173-81; Feb. 21.
- Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. Nos. 153,443-8; Mar. 21.
- Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. No. 154,937; May 16.
- Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. No. 155,150; May 16.
- Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. No. 156,248; June 20.
- Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. Nos. 157,946-50; Aug. 22.
- Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. Nos. 158,669-76; Sept. 12.
- Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. Nos. 158,954-6; Sept. 19.
- Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. Nos. 161,470-4; Nov. 14.
- Fort Dummer Mills, Brattleboro, Vt. Cotton piece goods. No. 152,587; Feb. 28.
- Fort Dummer Mills, Brattleboro, Vt. Cotton piece goods. Nos. 161,475-6; Nov. 14.
- Fort Howard Paper Company, Green Bay, Wis. Toilet paper, paper napkins, towels, and tablecloths. Nos. 153,449-50; Mar. 21.
- Fort Howard Paper Company, Green Bay, Wis. Toilet paper, paper napkins, towels, and tablecloths. No. 162,961; Dec. 26.
- Fort Smith Garment Co., Fort Smith, Ark. Men's and boys' overalls, overall coats and pants. No. 158,540; Sept. 5.
- Fort Wayne Engineering & Manufacturing Co., Fort Wayne, Ind. Printed circulars and periodical pamphlets. No. 154,938; May 16.
- Fort Wayne Engineering & Manufacturing Co., Fort Wayne, Ind. Pumping equipment and water systems. No. 155,964; June 13.
- Fort Wayne Engineering & Manufacturing Co., Fort Wayne, Ind. Deep-well, suction, and displacement pumps and parts thereof. No. 158,219; Aug. 29.
- Fort Wayne Engineering & Manufacturing Co., Fort Wayne, Ind. Deep-well pumps. No. 159,184; Sept. 19.
- Fortune Products Company, Chicago, Ill. Cocoa. No. 160,864; Oct. 31.
- Fortune Products Company, Chicago, Ill. Sweet milk chocolate. No. 162,505; Dec. 19.
- Fosgate, Chester C., Co., Orlando, Fla. Fresh citrus fruits. No. 152,778; Mar. 7.
- Foster, C. B., Packing Co., Inc., Biloxi, Miss. Canned oysters. No. 160,483; Oct. 24.
- Foster, C. B., Packing Co., Inc., Biloxi, Miss. Canned shrimp. No. 160,865; Oct. 31.
- Foster, Merriam & Company, Meriden, Conn. Metallic piston rings. No. 159,877; Oct. 10.
- Foster Screen Co., Inc., The, Newark, N. J. Window screens. No. 153,719; Mar. 28.
- Fouke Fur Company, St. Louis, Mo. Furs, skins, hides, and pelts. No. 151,130; Jan. 24.
- Foundry Equipment Company, Cleveland, Ohio. Core and mold ovens, brass and aluminum melting furnaces, oil and gas burners. No. 162,638; Dec. 19.
- Fowler Grape Growers Association, Fowler, Calif. Fresh deciduous fruits—namely, malagas. No. 154,787; May 9.
- Fowler, Green L., Clarksburg, Mo. Medicines for the cure of blood diseases. No. 22,114; renewed Dec. 6, 1922.
- Fowler, John E., Rosslyn, Va. Nonalcoholic, maltless beverages and sirups for making the same. No. 152,065; Feb. 14.
- Fowler, John E., Rosslyn, Va. Nonalcoholic maltless beverage and sirup therefor. No. 152,588; Feb. 28.
- Fowler-Nicolet Co., Inc., Rutland, Vt., and New York, N. Y. Men's dress, negligee, flannel, and sport shirts and boys' negligee shirts, etc. No. 160,186; Oct. 17.
- Fowler Packing Company, Kansas City, Kans. Lard and dry salt and sweet-pickled pork. No. 151,765; Feb. 14.
- Fowler-Williams Co., Dallas, Tex. Blow-out boots for vehicle tires. No. 160,484; Oct. 24.
- Fownes Brothers & Co., London, England. Gloversville, Amsterdam, and New York, N. Y., assignor to Equitable Trust Company of New York, trustee, New York, N. Y. Fabric gloves. No. 150,820; Jan. 10.
- Fox Drug Co., Portland, Oreg. Headache powders. No. 157,951; Aug. 22.
- Fox, Fontaine, New York, N. Y. Series of cartoons. Nos. 150,368-71; Jan. 3.
- Fox, Fontaine, New York, N. Y. Series of cartoons. No. 150,821; Jan. 10.
- Fox Motor Car Company, Philadelphia, Pa. Internal-combustion engines. No. 156,674; July 11.
- Fox Motor Car Company, Philadelphia, Pa. Automobiles and automobile parts. No. 160,485; Oct. 24.
- Fox River Company, The, Elgin, Ill. Scouring powders. No. 151,766; Feb. 14.
- Fox River Paper Company, Appleton, Wis. Writing paper. No. 154,027; Apr. 4.
- Fox River Paper Company, Appleton, Wis. Writing paper and ledger. No. 159,353; Sept. 26.
- Fox River Paper Company, Appleton, Wis. Writing paper. Nos. 160,486-8; Oct. 24.
- Fox River Valley Knitting Company, Appleton, Wis. Socks for men and children. No. 150,372; Jan. 3.
- Fox River Valley Knitting Company, Appleton, Wis. Socks for men and children. No. 154,548; Apr. 18.
- Fox, Samuel, & Company, Limited, Stockbridge Works, near Sheffield, England. Umbrellas, umbrella ribs, stretchers, and frames of metal. No. 20,632; renewed Jan. 26, 1922.
- Foyer, Chas. A., & Company, Cleveland, Ohio. Typewriter ribbons and carbon paper. No. 151,479; Feb. 7.
- Fraass, August E., New York, N. Y. Certain medical and surgical appliances. No. 153,471; Mar. 14.
- Fracello Remedy Co. (See Zuray, Charles.)
- Fram, E. T., Lock Co., The, Lancaster, Pa. Locks and latches. No. 154,939; May 16.
- Fram, E. T., Lock Company, The, Lancaster, Pa. Locks, latches, and padlocks. Nos. 157,066-7; July 25.
- Fram-Slaymaker Hardware Company, Lancaster, Pa. Padlocks and certain other locks, and keys and parts thereof, etc. No. 153,720; Mar. 28.
- Frame, Abraham L., Reading, Pa. Carts, wagons, and trucks. No. 160,489; Oct. 24.
- Franc, Strohmenger & Cowan, Inc., New York, N. Y. Neckties, cravats, and scarfs. No. 161,727; Nov. 14.
- Frances Fox Laboratories, Incorporated, New York, N. Y. Soap for hair and skin. No. 151,768; Feb. 14.
- Franchina, Louis B., Cleveland, Ohio. Hair tonics. No. 151,480; Feb. 7.
- Francione, Raffaele, trading as Red Bird Malt & Hop Co., Washington, D. C. Malt and hops compound. No. 160,490; Oct. 24.
- Frank, Paul, New York, N. Y. Food tonic composed of dried yeast and vitamins. No. 152,779; Mar. 7.
- Franco-American College, Inc., Mount Holly, N. J., and Philadelphia, Pa. Certain toilet preparations. No. 151,481; Feb. 7.
- Franco Electric Corporation, Brooklyn, N. Y. Dry batteries. No. 152,589; Feb. 28.
- Frank A. B., Company, San Antonio, Tex. Outer clothing for men and boys. No. 160,187; Oct. 17.
- Frank, Cassel, New York, N. Y. Gowns, coats, suits, sweaters, skirts, etc. No. 154,441; Apr. 11.
- Frank, Isadore, New York, N. Y. Men's and boys' suits, trousers, top coats, raincoats, etc. No. 151,767; Feb. 14.
- Frank, M., Sons & Company, Inc., New York, N. Y. Men's and young men's clothing. No. 156,677; Sept. 12.
- Frank, Maxwell C., Oakland, Calif. Washboards. No. 158,220; Aug. 29.
- Frank Pure Food Company, The, Milwaukee, Wis. Canned sauerkraut. Nos. 155,890-1; June 6.

Alphabetical list of registrants of trade-marks—Continued.

- Frank, Richard, trading as Richard Frank & Co., New York, N. Y. Fruit frappe. No. 156,867; July 18.
- Frank, Richard, & Co. (See Frank, Richard.)
- Frank & Co., Nashville, Tenn. Collars. No. 158,439; Sept. 5.
- Frankel, Armin A., Philadelphia, Pa. Ladies' three-piece suits. No. 157,498; Aug. 8.
- Frankenthaler & Frankenthaler, New York, N. Y. Hair ribbons. No. 162,506; Dec. 19.
- Frankford Davies and Company, Pittsburgh, Pa. Washing compound. No. 162,222; Dec. 12.
- Franklin Coffee Co., The, Columbus, Ohio. Coffee. No. 157,672; Aug. 15.
- Franklin Company, The, Chicago, Ill. Monthly magazine. No. 155,229; May 23.
- Franklin, J. G., and Sons Limited, Dalston, London, England. Toys made of india rubber. No. 151,131; Jan. 24.
- Franklin, Richard, New York, N. Y. Clinical thermometer. No. 152,402; Feb. 28.
- Franklin Rubber Company, Boston, Mass. Rubber-surface clothing. No. 161,362; Nov. 7.
- Franklin Silver Plate Company, Greenfield, Mass. Certain precious-metal ware. No. 151,482; Feb. 7.
- Franklin, Simon, & Co. Inc., New York, N. Y. Clothing. No. 154,696; Apr. 18.
- Franklin, Simon & Co. Inc., New York, N. Y. Certain articles of clothing. No. 156,249; June 20.
- Fraser Tablet Company, The, Brooklyn, N. Y. Nursers. No. 154,028; Apr. 4.
- Frazar & Company, New York, N. Y. Human-hair nets. No. 161,477; Nov. 14.
- Frazar, Everett W., San Francisco, Calif. Walnut meats and peanuts in their natural state. No. 160,491; Oct. 24.
- Fredriksen, Hardy M., Tacoma, assignor to Spark-O Metals Company, Seattle, Wash. Metal terminals or electrodes for spark plugs. No. 157,068; July 25.
- Freed, Joseph D. R., New York, N. Y. Wireless apparatus. No. 153,172; Mar. 14.
- Freed & Company, Chicago, Ill. Hats and caps for men and boys. No. 157,069; July 25.
- Freedman, A., Sons, Inc. (See Freedman, A., & Sons, assignors.)
- Freedman, A., & Sons, assignors to A. Freedman & Sons Incorporated, Boston, Mass. Boots and shoes. No. 161,140; Nov. 7.
- Freedman, Benjamin S., Co., Scranton, Pa. Hair nets and veils. No. 150,670; Jan. 3.
- Freedman, Benjamin S., Co., Scranton, Pa. Hair nets and veils. No. 160,771; Oct. 24.
- Freedman & Co., Harrisburg, Pa. Hosiery. No. 157,952; Aug. 22.
- Freedman, Louis A., New York, N. Y. Combined bell and electric-lamp socket used as a signal device. No. 159,185; Sept. 19.
- Freeman, A. Jay, Chicago, Ill. Liniment. No. 158,440; Sept. 5.
- Freeman, Alida G., New York, N. Y. Hats for women. No. 155,965; June 13.
- Freeman, Louis G., Co., The, Cincinnati, Ohio. Machinery used in the manufacture of shoes. No. 161,774; Nov. 21.
- Freihofer, William, Baking Co., Wilmington, Del. Bread. No. 162,943; Dec. 26.
- French Distributing Company. (See Strange, Risdon B.)
- French Importing Co., Chicago, Ill. Hair nets. No. 156,250; June 20.
- French, J. E., Company, Rockland, Mass. Leather boots and shoes. No. 162,155; Dec. 5.
- Frenkel, L. & E., Inc., New York, N. Y. Cotton piece goods. No. 162,753; Dec. 26.
- Freter, John C., Bridgeport, Ohio. Medicine for treatment of rheumatism and blood diseases. No. 153,725; Mar. 28.
- Freudenberger, Robert L., Cleveland, Ohio. Grease and oil guns and parts thereof. No. 162,076; Dec. 5.
- Freund, Freund & Co., New York, N. Y. Cotton and linen goods in the piece. No. 154,277; Apr. 11.
- Frick Company, Waynesboro, Pa. Ice-making and refrigerating machinery. No. 157,070; July 25.
- Frictionless Metal Company, Chattanooga, Tenn. Alloy. No. 20,952; renewed Apr. 5, 1922.
- Friedlander, Percy, and A. Solomon, Chicago, Ill. Hosiery. No. 141,265; Mar. 14.
- Friedman Bros. & Son Neckwear Company Inc., New York, N. Y. Ties, cravats, and four-in-hand ties. No. 157,071; July 25.
- Friedman Brothers, Inc., Council Bluffs, Iowa. Overalls, jackets, work shirts, and caps, dust coats, auto coats, etc. No. 161,141; Nov. 7.
- Friedman Dress Company, Inc., New York, N. Y. Women's and girls' dresses. No. 157,953; Aug. 22.
- Friedman, Hugo, Chicago, Ill. Certain dental appliances. No. 153,173; Mar. 14.
- Friedman, Hugo, doing business as The Hugo Friedman Mfg. Co., Chicago, Ill. Extracting elevators, dental surgical currettes, operating knives, etc. No. 162,754; Dec. 26.
- Friedman, Hugo, Mfg Co., The. (See Friedman, Hugo)
- Friedman, Ike K., Fort Worth, Tex. Oranges. No. 160,492; Oct. 24.
- Friedman, Max J., New York, N. Y. Men's nainsook athletic underwear. No. 157,072; July 25.
- Friedman, Samuel, New York, N. Y. Brassieres. No. 162,962; Dec. 26.
- Friedman, Samuel D., Los Angeles, Calif. Aprons, ladies' and children's dresses, bath robes, capes, waists, etc. No. 154,549; Apr. 18.
- Friend, Harry L., Boston, Mass. Coffee flavor in solid, powdered, and liquid form. Nos. 154,788-9; May 9.
- Frohman, L. H., & Company, Inc., Chicago, Ill. Coffee. No. 157,809; Aug. 15.
- Froidevaux Cie. (See Thomas, Lillian G.)
- Frolaser Corset Company, Detroit, Mich. Corsets, brassieres, corset waists, girdles, dresses, etc. No. 155,327; May 23.
- Frolong, Lena, Los Angeles, Calif. Cough remedy. No. 156,251; June 20.
- Frontier Bronze Corporation, Niagara Falls, N. Y. Non-ferrous metal castings. No. 159,354; Sept. 26.
- Frost, John M., Buffalo, N. Y. Certain pharmaceutical preparations. No. 156,252; June 20.
- Frost, R. & Co. (See Cohen, Tully S.)
- Fruchter, Alton. (See Racille, Roslyn, assignor.)
- Fruechtenicht, Henry, Louisville, Ky. Horse, cattle, dairy, poultry, and hog feed. No. 159,355; Sept. 26.
- Fruit Cake Mfg. Co., The, Newark, N. J. Laxative. No. 160,188; Oct. 17.
- Fruit-oil-ets Laboratories. (See Bousquet, Paul L.)
- Fruit and Produce Exchange of Great Britain, Limited, London, England. Sacks, wooden cases, boxes, crates, etc. No. 158,678; Sept. 12.
- Frutchey Mercantile Corporation. (See Frutchey, W. J. R., & Co., assignor.)
- Frutchey, W. J. R., & Co., assignor to Frutchey Mercantile Corporation, Inc., New York, N. Y. Silk fabrics in the piece. No. 154,440; Apr. 11.
- Frutrite Products Company, Los Angeles, Calif. Beverages sold as soft drinks and sirups used in preparation of same. No. 161,142; Nov. 7.
- Ft. Myers Truckers Assn., Fort Myers, Fla. Fresh peppers, eggplants, cucumbers, tomatoes, and beans. No. 152,780; Mar. 7.
- Fugazzi Bros., Cincinnati, Ohio. Fresh citrus fruits. No. 160,772; Oct. 24.
- Fugo Chemical Company, The, Pocatello, Idaho. Preparation for the treatment of pyorrhea. No. 156,254; June 20.
- Fujisawa, T., & Company, New York, N. Y. Chemicals and pharmaceuticals. No. 159,356; Sept. 26.
- Fuld and Hatch Knitting Company, Albany, N. Y. Knitted garments and knitted and woven underwear and hosiery. No. 160,189; Oct. 17.
- Fulghum & Company, Los Angeles, Calif. Hair nets. Nos. 162,755-6; Dec. 26.
- Fuller Brush Company, The, Hartford, Conn. Brushes, dusters, and daubers. No. 151,182; Jan. 24.
- Fuller Brush Company, The, Hartford, Conn. Mops, brushes, brooms, cotton daubers, dusters. No. 152,403; Feb. 28.
- Fuller Brush Company, The, Hartford, Conn. Crumb trays, crumb scrapers, and sink scrapers. No. 162,077; Dec. 5.
- Fuller, Emil, New York, N. Y. Powder puffs. No. 160,493; Oct. 24.
- Fulton, David H., & Bro., Baltimore, Md. Laxative tablets. Nos. 160,866-7; Oct. 31.
- Fulton Drug Co. (See Gunter, Daniel J.)
- Fulton, Frederick F., doing business as Oiltrol Piston Ring Co., Philadelphia, Pa. Piston rings. No. 160,190; Oct. 17.
- Fulton Motors Corporation, New York, N. Y. Automobiles. Nos. 157,337-8; Aug. 1.
- Funk & Maltz Cap Co., St. Louis, Mo. Caps for men and boys. No. 151,133; Jan. 24.
- Funk & Wagnalls Company, New York, N. Y. Phonograph records. No. 155,151; May 16.
- Funk & Wagnalls Company, New York, N. Y. Publications relating to the study of languages. No. 156,121; June 13.
- Funsten Brothers & Company, St. Louis, Mo. Tubes for pneumatic tires. No. 160,191; Oct. 17.
- Furcht, Elsie, Brooklyn, N. Y. Hats. No. 161,363; Nov. 7.
- Furcotte, Lucien F., doing business as Coca-Cola Bottling Co., Lowell, Mass. Nonalcoholic, noncereal, maltless beverage and sirup for making same. No. 160,697; Oct. 24.
- Furman Company, San Antonio, Tex. Disinfectants, insecticides, and deodorant. No. 157,954; Aug. 22.
- Furman, Louis M., Brooklyn, N. Y. Trousers, overcoats, and suits for men and boys. No. 156,799; July 11.
- G. B. G. Mfg. Co. Inc., The, New York, N. Y. Ladies' and misses' coats and suits. No. 161,143; Nov. 7.
- G. & C. Merriam Company, Springfield, Mass. Dictionaries which are published from time to time. Nos. 162,309-11; Dec. 12.
- G. & H. Products Co., Inc., Buffalo, N. Y. Malt. No. 158,958; Sept. 19.
- Gabay, Ella, & Co., New York, N. Y. Beverages sold as soft drinks. No. 160,494; Oct. 24.
- Gabbe, Herman, & Bro., Inc., New York, N. Y. Furs and skins in the piece. No. 160,192; Oct. 17.
- Gabilla, Henrietta, Paris, France. Toilet preparations. No. 154,029; Apr. 4.
- Gabriel, Saml., Sons & Company, New York, N. Y. Games. No. 154,940; May 16.
- Gabriel, Saml., Sons & Company, New York, N. Y. Children's drawing books. No. 156,255; June 20.

Alphabetical list of registrants of trade-marks—Continued.

- Gabriel & Schall, New York, N. Y. Powdered barytes. No. 20,789; renewed Mar. 1, 1922.
- Gadomski Bros., Jersey City, N. J. Healing compound for sores and wounds. No. 158,959; Sept. 19.
- Gaebler, Adolph N., St. Louis, Mo. Laxative pills. No. 151,483; Feb. 7.
- Gage, Joseph A., Dallas, Tex. Certain foods. No. 160,868; Oct. 31.
- Gaiety Garment Company. (See Kaufman Manufacturing Co., assignor.)
- Gainesville Potato Growers Co-Operative Association, Inc., Gainesville, N. Y. Fresh potatoes. No. 160,495; Oct. 24.
- Gairing, George F., Youngstown, Ohio. Imitation coffee. No. 161,694; Nov. 14.
- Galchinsky Bros., New York, N. Y. Hair nets. No. 157,955; Aug. 22.
- Galdo Dulzades y Compania, Cardenas, Cuba. Roofing paper in rolls. No. 152,066; Feb. 14.
- Galena-Signal Oil Co., Franklin, Pa. Illuminating and lubricating oils and greases. No. 158,679; Sept. 12.
- Galion Iron Works & Mfg. Co., The, Galion, Ohio. Corrugated metal culvert pipe. Nos. 161,872-3; Nov. 21.
- Galion Iron Works & Mfg. Co., The, Galion, Ohio. Certain road and other machinery. No. 161,874; Nov. 21.
- Gallaher, Ltd., Belfast, Ireland. Tobacco, cigarettes, cigars, snuff. No. 152,781; Mar. 7.
- Gallaher, Ltd., Belfast, Ireland. Smoking tobacco, cigarettes, cigars, and snuff. Nos. 155,420-22; May 30.
- Gallaher, Ltd., Belfast, Ireland. Smoking and chewing tobacco, cigarettes, cigars, and snuff. No. 155,423; May 30.
- Galle, S., & Co., New York, N. Y. Cheese. No. 153,590; Mar. 21.
- Galloway, Wesley J., Sheffield, Ala. Liquid preparation for the treatment of whooping cough, croup, hoarseness, and bronchitis. No. 157,258; July 25.
- Galloway-West Company, Fond du Lac, Wis. Evaporated milk. No. 151,769; Feb. 14.
- Galloway-West Company, Fond du Lac, Wis. Concentrated preparation of milk, cocoa, sugar, and vanilla. No. 156,570; June 27.
- Gamecraft and Toy Company, New York, N. Y. Table board game played with pieces. No. 156,868; July 18.
- Gamewell Fire Alarm Telegraph Company, The, New York, N. Y. Certain electrical apparatus. No. 155,690; June 6.
- Gamlin, William, London, Ohio. General conditioner for horses, cattle, etc. No. 155,691; June 6.
- Gams, Joseph, doing business as Protection Ink Company, New York, N. Y. Nonerasable writing, marking, and drawing ink. No. 156,256; June 20.
- Gandion, Louis D., doing business as The Clark-Gandion Truss Company, San Francisco, Calif. Leather, rubber, etc., trusses, abdominal supporters, sanitary suspensories, and sanitary girth straps. No. 161,478; Nov. 14.
- Gangelhoff Bros., Minneapolis, Minn. Mattresses. No. 155,692; June 6.
- Gangelhoff Bros., Minneapolis, Minn. Bed springs. No. 156,593; July 4.
- Gannett, William H., Augusta, Me., assignor to The Giant Oxie Company. Remedy for nervous disorders. No. 21,516; renewed July 26, 1922.
- Gano-Downs Clothing Company, The, Denver, Colo. Women's, misses', and children's hats. No. 154,550; Apr. 18.
- Gans, Louis R., Brooklyn, N. Y. Certain furniture and upholstery. No. 155,424; May 30.
- Gans, Louis R., Brooklyn, N. Y. Certain household and porch furniture. No. 158,158; Aug. 22.
- Gans, Louis R., Brooklyn, N. Y. Certain furniture. No. 158,345; Aug. 29.
- Garal, Dr. Frank, New York, N. Y. Oily emulsion of argenti nitras. No. 151,484; Feb. 7.
- Garcia Manzoni Gaza & Cia., Buenos Aires, Argentina. Lubricating oils and greases. No. 161,942; Nov. 28.
- Garden Chemical Co., Inc., New York, N. Y. Insecticides. No. 158,442; Sept. 5.
- Gardiner-Lucas Co., Inc., The, Brooklyn, N. Y. Hollow sticks of sugar candy. No. 151,770; Feb. 14.
- Gardiner-Lucas Co., Inc., The, Brooklyn, N. Y. Sugar candy. No. 151,771; Feb. 14.
- Garduno y Solórzano, Adrian, Mexico, Mexico. Tablets for dissolving and used in treatment of cataracts of the eye. No. 156,428; June 20.
- Garlough and Nave, Springfield, Ohio. Insecticides. No. 158,577; Sept. 5.
- Garner, Harry T., Sioux Falls, S. Dak. Rodent poison. No. 152,404; Feb. 28.
- Garner Print Works and Bleachery, New York, N. Y. Cotton piece goods. No. 152,313; Feb. 21.
- Garner Print Works and Bleachery, New York, N. Y. Cotton piece goods. Nos. 152,590-1; Feb. 28.
- Garner Print Works and Bleachery, New York, N. Y. Cotton piece goods. Nos. 154,941-3; May 16.
- Garner Print Works and Bleachery, New York, N. Y. Cotton piece goods. No. 155,230; May 23.
- Garner Print Works and Bleachery, New York, N. Y. Mercerized and unmercerized lingerie cloth. No. 157,504; Aug. 8.
- Garrett & Company, Inc., Brooklyn, N. Y. Flavoring extracts for food purposes. No. 155,328; May 23.
- Garrett & Company, Inc., Brooklyn, N. Y. Flavoring extracts for food. No. 155,966; June 13.
- Garrett & Company, Inc., New York, N. Y. Nonalcoholic, noncereal, maltless beverage sold as a soft drink. No. 157,415; Aug. 1.
- Garrity, L. M. & Co., Inc., Boston, Mass. Certain hair wavers, ornaments, combs, and hair binders. No. 152,067; Feb. 14.
- Garrity, L. M., & Co., Inc., Boston, Mass. Hair-waving fluids, shampoos, and henna wash for the hair. No. 153,591; Mar. 21.
- Garrity, L. M., & Co. Inc., Boston, Mass. Hair wavers, curlers, and crimpers. No. 158,960; Sept. 19.
- Gas & Electric Appliance Company, The, Cincinnati, Ohio. Gas ranges. No. 160,192; Oct. 17.
- Gasco Specialty Company, Inc., The, New York, N. Y. Nut-kernel paste. No. 158,443; Sept. 5.
- Gash, Stull & Company, Chester, Pa. Tractor-plow hitches. No. 155,892; June 6.
- Gates, Edward L., Atlanta, Ga. Waxed polish. No. 151,030; Jan. 10.
- Gates, Robert J., New York, N. Y. Certain medicinal preparation. No. 152,183; Feb. 21.
- Gates Rubber Company, Denver, Colo. Rubber tires. No. 153,927; Mar. 28.
- Gates Rubber Company, The, Denver, Colo. Rubber tires. No. 159,620; Sept. 26.
- Gaul, Derr & Shearer Company, Philadelphia, Pa. Air compressors. No. 153,726; Mar. 28.
- Gaunt, Alfred C., Methuen, Mass. Suits, overcoats, ulsters, mackintoshes, etc. No. 150,822; Jan. 10.
- Gavaza, George V., doing business as Automatic Siphon Filler Co., Beverly and Boston, Mass. Automatic siphons, bath sprays, faucet adapters, etc. No. 162,757; Dec. 26.
- Gavin, Joseph A., Brooklyn, N. Y. Waterproof paper outer garments. No. 158,680; Sept. 12.
- Gawurin, Leon, New York, N. Y. Preparation used internally for coughs, colds, and headaches. No. 151,485; Feb. 7.
- Gay, A. T., Auburn, Me. Wood stain. No. 160,773; Oct. 24.
- Gaylord, Albert E., New York, N. Y. Tire-sealing compound. No. 158,681; Sept. 12.
- Gaynor Manufacturing Company, The, Bridgeport, Conn. Record cards. No. 154,944; May 16.
- Gearless Motor Corporation, Pittsburgh, Pa. Automobiles and motor trucks. No. 161,015; Oct. 31.
- Gebr. Zuppinger, Meilen, Switzerland. Beverages sold as a soft drink. No. 158,573; Sept. 5.
- Gebrüder Bühler, Uzwil, Switzerland. Silos. No. 151,690; Feb. 14.
- Gebrüder Bühler, Uzwil, Switzerland. Certain grain and flour and other machinery and certain presses. No. 153,129; Mar. 14.
- Gebrüder Bühler, Uzwil, Switzerland. Ventilators and certain drying apparatus. No. 153,130; Mar. 14.
- Gebrüder Bühler, Uzwil, Switzerland. Pressure and suction tube filters. No. 153,673; Mar. 28.
- Gebrüder Bühler, Uzwil, Switzerland. Brushes belonging to milling machinery. No. 155,209; May 23.
- Gebrüder Joost, Langnau, Switzerland. Cheese and preserved cheese. No. 161,788; Nov. 21.
- Gebrüder Junghans, A. G., Schramberg, Germany. Clocks, watches, and parts thereof. Nos. 152,782-4; Mar. 7.
- Gebrüder Siemens & Company, Berlin-Lichtenberg, Germany. Certain electrical apparatus. No. 158,444; Sept. 5.
- Gedge-Gray Company, The, Lockland, Ohio. Sifters for bakers, millers, hotels, and restaurants, etc., combined separators and sifters, etc. No. 162,758; Dec. 26.
- Geer Drug Company, The, Charleston, S. C. Skin cream. No. 156,257; June 20.
- Geer Drug Company, The, Charleston, S. C. Toilet soap. No. 162,248; Dec. 12.
- Gehring Publishing Company, The, New York, N. Y. Weekly magazine. No. 155,231; May 23.
- Geiger, Henry W., New York, N. Y. Certain named printed publications. No. 162,249; Dec. 12.
- Geigy Company Inc., New York, N. Y. Dyestuffs. No. 151,486; Feb. 7.
- Gekas, Costas, Cleveland, Ohio. Medicine used in the treatment of gonorrhea. No. 150,374; Jan. 3.
- Gelband, Samuel C., New York, N. Y. Parasols and umbrellas. No. 158,682; Sept. 12.
- Gem Air Permanent Wave Co., New York, N. Y. Hot-air hair-waving apparatus. No. 156,258; June 20.
- Gem Crib & Cradle Company, Gardner, Mass. Cribs, cradles, and certain named nursery furniture. No. 151,772; Feb. 14.
- Gem Hammock & Fly Net Company, The, Milwaukee, Wis. Oil for mops. No. 152,785; Mar. 7.
- Gem Hammock & Fly Net Company, Milwaukee, Wis. Cotton and woolen rugs. No. 155,152; May 16.
- Gem Safety Razor Corporation, Brooklyn, N. Y. Razors and razor blades, safety razors, and safety-razor blades. No. 154,278; Apr. 11.
- Gemo-Sterby Bruks Aktiebolag, Osterby pr Dannemora, Sweden. Iron and iron and steel castings and forgings. No. 153,928; Mar. 2.
- Gene Vall Cigar Co. Inc., New York, N. Y. Cigars. No. 158,683; Sept. 12.

- Gener, José, Habana, Cuba. Cigars. No. 19,887; renewed July 14, 1921.
- General Abrasive Co. Inc., Niagara Falls, N. Y. Corundum, emery, and silicon carbide. No. 157,673; Aug. 15.
- General Baking Company, New York, N. Y. Cake, pastry, biscuits, etc. No. 159,357; Sept. 26.
- General Baking Company, New York, N. Y. Bread. Nos. 159,878-9; Oct. 10.
- General Beverage Manufactures Co. (See Curtis, George W., jr.)
- General Cigar Co. Inc., New York, N. Y. Cigars. No. 150,823; Jan. 10.
- General Cigar Co. Inc., New York, N. Y. Cigars. No. 153,727; Mar. 28.
- General Chemical Company, New York, N. Y. Publication. No. 155,232; May 23.
- General Coffee and Tea Company, The, Baltimore, Md. Coffee. No. 152,405; Feb. 28.
- General Electric Company, Schenectady, N. Y. Asbestos-insulated electric wires. No. 151,487; Feb. 7.
- General Electric Company, Schenectady, N. Y. Electric-light fixtures. No. 151,488; Feb. 7.
- General Electric Company, Schenectady, N. Y. Outlet boxes and fittings. No. 151,489; Feb. 7.
- General Electric Company, Schenectady, N. Y. Vacuum tubes. No. 153,174; Mar. 14.
- General Electric Company, Schenectady, N. Y. Paints for glass or other surfaces. No. 158,961; Sept. 19.
- General Fireproofing Co., The, Youngstown, Ohio. Filing folders, paper-filing guides, etc. No. 154,030; Apr. 4.
- General Laboratories, The, Atlanta, Ga. Liquid tonic containing vitamins and medicinal properties. No. 160,869; Oct. 31.
- General Manufacturing Company, The, Sioux City, Iowa. Lead pencils having means for feeding forward the lead. No. 153,452; Mar. 21.
- General Match Company, The, Cincinnati, Ohio. Matches. No. 153,728; Mar. 28.
- General Oil Producing Company. (See Dillon, Asahel.)
- General Phonograph Corporation, New York, N. Y. Needles for talking machines and phonograph needles. No. 151,386; Jan. 31.
- General Phonograph Corporation, New York, N. Y. Fishing reels. No. 153,374; Mar. 14.
- General Railway Signal Company, Rochester, N. Y. Metal forgings and analogous metal manufactures. No. 161,775; Nov. 21.
- General Securities Corporation, Camden, N. J. Bonds, interest, coupons, promissory notes, etc. No. 153,453; Mar. 21.
- General Steel Products Co., Detroit, Mich. Bar, sheet, strip, and band steel, steel plates, and steel wire. No. 160,496; Oct. 24.
- General Steel & Rubber Stamp Co., Boston, Mass. Steel stamps. No. 161,776; Nov. 21.
- General Tire & Rubber Co., The, Akron, Ohio. Certain tires, tubes, casings, patches, etc. No. 152,068; Feb. 14.
- General Tire and Rubber Company, The, Akron, Ohio. Shoe soles and heels made of or containing rubber. No. 156,259; June 20.
- General Tire and Rubber Company, The, Akron, Ohio. Tire treads of rubber and fabric in the piece. No. 156,869; July 18.
- General Tobacco Company, The, Louisville, Ky. Cigarettes. No. 155,425; May 30.
- General Wood Products Co., Cleveland, Ohio. Toy-making outfits. No. 154,031; Apr. 4.
- Geneva Citrus Growers Association, Geneva, Fla. Fresh citrus fruits. No. 161,943; Nov. 28.
- Geneva Tackle Co., Geneva, N. Y. Fishing spoons. No. 159,358; Sept. 26.
- Genschow, Gustav, & Co., Aktiengesellschaft, Berlin, Germany. Ammunition. No. 162,759; Dec. 26.
- Genuine Crude Oil Company, The. (See Bowen, Edward J.)
- George, Andrew J., Kansas City, Kans. Medicinal tonic for blood, skin, and bladder diseases. No. 155,693; June 6.
- George Matthew Adams Service, The, New York, N. Y. Series of cartoons. No. 153,962; Sept. 19.
- George, Nicolas A. F. (administrator). (See Société Anonyme des Produits du Lion Noir.)
- George Paper Corporation, The, Albany, N. Y. Toilet paper, paper towels, and paper napkins. No. 161,778; Nov. 21.
- Geraldine Company, The, Boston, Mass. Toilet preparations—namely, a hair tonic. No. 155,694; June 6.
- Geraty, Jeremiah, New York, N. Y. Cleaning and polishing solution for floors, furniture, etc. No. 154,946; May 16.
- Gerb- und Farbstoffwerke H. Renner & Co. Aktien-Gesellschaft, Hamburg, Germany. Solid and liquid tanning extracts. No. 161,479; Nov. 14.
- Gerbig, Bert G., Seattle, Wash. Ignition circuit breakers, for internal-combustion engines. No. 160,094; Oct. 10.
- Gerhard Lang Brewery, Buffalo, N. Y. Malt syrup, extracts, and malt beverages. No. 151,134; Jan. 24.
- Gerhard Lang Brewery, Buffalo, N. Y. Malt syrup for use in the manufacture of beverages. No. 151,316; Jan. 31.
- Gerke, Frederic L., New York, N. Y. Metal preservatives. No. 154,032; Apr. 4.
- Germicide Company, The, Denver, Colo. Medicine for cows. No. 150,375; Jan. 3.
- Gerrells, Roy F., Fort Worth, Tex. Liquid ejectors. No. 153,729; Mar. 28.
- Gesellschaft für Wolfram-Industrie m. b. H., Fraunstein, Germany. Unwrought or partly-wrought ferrous and nonferrous metallic alloys of great hardness. No. 162,078; Dec. 5.
- Gesteira, Jeronymo, Para, Brazil. Preparation to be used externally for certain purposes. No. 156,260; June 20.
- Gesteira, Jeronymo, Para, Brazil. General uterus tonic. No. 156,261; June 20.
- Gesteira, Jeronymo, Para, Brazil. Medicinal preparation for constipation and diseases caused by weakness of the bowels. No. 156,262; June 20.
- Getchell, Dennis F., Limestone, Me. Fresh potatoes for table and seed purposes. No. 152,406; Feb. 28.
- Getlen, Nestor J., Denver, Colo. Medical preparation for the feet. No. 155,695; June 6.
- Getz Power Washer Co., Morton, Ill. Laundry washing machines. No. 152,786; Mar. 7.
- Gevaert Photo Produkten, Oude-God, near Antwerp, Belgium. Cameras, photographic films on spools, films, packs, etc. Nos. 162,250-2; Dec. 12.
- Ghiglione, A. F., & Sons, Inc., Seattle, Wash. Alimentary paste. Nos. 160,497-8; Oct. 24.
- Giant Grip Mfg. Co., Oshkosh, Wis. Horseshoes. No. 158,963; Sept. 19.
- Giant Oxie Company, The. (See Gannett, William H., assignor.)
- Gibbon, C. S., Co., Philadelphia, Pa. Women's leather and combination shoes. No. 156,263; June 20.
- Gibbs Manufacturing Company, The, Canton, Ohio. Toy tops and seasaw toys. No. 150,671; Jan. 3.
- Gibbs Manufacturing Company, Canton, Ohio. Certain named toys. No. 150,672; Jan. 3.
- Gibbs, Walter A., Chester, Pa. Animal traps. No. 150,376; Jan. 3.
- Gibson, Dr. H. G., Glouster, Ohio. Medicine for the treatment of lumbago. No. 161,695; Nov. 14.
- Gibson, Geo. R., Co., New York, N. Y. Toothbrushes, hairbrushes, and nailbrushes. No. 153,175; Mar. 14.
- Gibson, Geo. R., Co., New York, N. Y. Hairbrushes and toothbrushes. No. 157,073; July 25.
- Gibson-Snow Co. Inc., Albany, N. Y. Salve or ointment for certain uses. No. 151,490; Feb. 7.
- Gibson, William J., trading as Crystal Soda Water Works, Uniontown, Pa. Ginger ale and sirup for making the same. No. 157,505; Aug. 8.
- Gibson, Wm., & Co., Ltd., Kinghorn, Fife, Scotland. Iron heads for golf clubs and iron-headed golf clubs. No. 157,956; Aug. 22.
- Giebeler & Goldman, Merced, Calif. Figs dried, canned, green, and preserved. No. 157,674; Aug. 15.
- Gifford-Wood Company, Hudson, N. Y. Rubber, etc., conveyer belting. Nos. 150,377-8; Jan. 3.
- Gilbert Bros. & Co. Inc., Baltimore, Md. Liniment. No. 154,033; Apr. 4.
- Gilbert Bros. & Co. Inc., Baltimore, Md. Preparation for the treatment of coughs, colds, grip, etc. No. 157,334; Aug. 1.
- Gilbert Paper Company, Menasha, Wis. Ledger paper. No. 160,775; Oct. 24.
- Gilbert Paper Co., Menasha, Wis. Writing paper. No. 160,870; Oct. 31.
- Gilbert Paper Co., Menasha, Wis. Ledger and bond papers. No. 161,777; Nov. 21.
- Gilbert, William L., Clock Company, Winsted, Conn. Clocks. No. 158,445; Sept. 5.
- Gilchrist, John W., New York, N. Y. Silk piece goods. No. 162,760; Dec. 26.
- Gill Brothers Company, Steubenville, Ohio. Lamp chimneys, and shades, lantern globes, etc. No. 159,830; Oct. 10.
- Gillespie Eden Corporation, New York, N. Y. Ironers and ironing machines. No. 162,253; Dec. 12.
- Gillette Rubber Co., Eau Claire, Wis. Rubber-tire casings. No. 151,773; Feb. 14.
- Gillette Rubber Co., Eau Claire, Wis. Aprons. No. 157,506; Aug. 8.
- Gillette Rubber Company, assignor to Gillette Rubber Company, Eau Claire, Wis. Rubber vehicle tires and tire treads. No. 155,426; May 30.
- Gillette Safety Razor Company, Boston, Mass. Safety razors. No. 154,544; Apr. 18.
- Gillette Safety Razor Company, Boston, Mass. Safety razors. Nos. 154,947-9; May 16.
- Gillette Safety Razor Company, Boston, Mass. Safety razors. No. 154,950; May 16.
- Gillette Safety Razor Company, Boston, Mass. Safety razors. No. 156,264; June 20.
- Gillette Safety Razor Company, Boston, Mass. Safety razors. No. 158,346; Aug. 20.
- Gillette Safety Razor Company, Boston, Mass. Safety razors. No. 159,359; Sept. 26.
- Gillette Safety Razor Company, Boston, Mass. Safety-razor blades. No. 160,194; Oct. 17.
- Gillingham Portland Cement Company, Limited, The, London and Gillingham, assignor to The Associated Portland Cement Manufacturers, Limited, London, England. Portland cement. No. 22,244; renewed Dec. 27, 1922.

Alphabetical list of registrants of trade-marks—Continued.

- Gillman, Eugene, Seattle, Wash. Women's house dresses and dress aprons and children's rompers, creepers, and bloomer dresses. No. 155,967; June 13.
- Gilman Bros. Inc., Boston, Mass. Hair nets and handkerchiefs. No. 152,407; Feb. 28.
- Gilman-Winter Paper Company. Wrapping, bond, etc., paper. No. 160,499; Oct. 24.
- Gilmore Petroleum Company, Los Angeles, Calif. Lubricating oil. Nos. 154,951-2; May 16.
- Gilpin, Donald N., doing business as The Kro-Ko Corporation, Baltimore, Md. Insecticides. No. 159,881; Oct. 10.
- Gilson Company, The, Chicago, Ill. Caps for men, women, and children. No. 157,957; Aug. 22.
- Gimbal Brothers, San Francisco, Calif. Candy. No. 160,500; Oct. 24.
- Ginsberg, Edmund Wright, Company, Inc., New York, N. Y. Printed periodicals. No. 155,233; May 23.
- Ginsberg, I. & Bros., New York, N. Y. Women's cotton aprons and dresses. No. 157,074; July 25.
- Ginsberg, I. & Bros., New York, N. Y. Women's, misses, and children's dresses, skirts, and waists made of cotton fabric. No. 157,075; July 25.
- Ginseng Bottling Co., The, Menominee Falls, Wis. Beverages sold as a soft drink and sirups for making same. No. 157,416; Aug. 1.
- Ginzkey-Maffersdorf, I., Inc., New York, N. Y. Woolen blankets. Nos. 157,958-60; Aug. 22.
- Ginzkey-Maffersdorf, I., Inc., New York, N. Y. Woolen blankets. No. 158,222; Aug. 29.
- Gipsolite Company, The, Buffalo, N. Y. Wall board, plaster board, and gypsum plaster. No. 160,501; Oct. 24.
- Given, John M., Inc., New York, N. Y., Chicago, Ill., and Pittsburgh, Pa. Children's hosiery. No. 153,454; Mar. 21.
- Given Paper Company, St. Paul, Minn. Writing paper and envelopes. No. 159,621; Sept. 26.
- Givens, Edward S., Kansas City, Mo. Toilet preparation—viz., face lotion. No. 151,491; Feb. 7.
- Gladding, B. F. & Co., Inc., South Otselic, N. Y. Braided linen fishing lines. No. 150,673; Jan. 3.
- Gladding, B. F. & Co., Inc., South Otselic, N. Y. Waterproof braided silk casting lines. No. 150,674; Jan. 3.
- Gladding, B. F. & Co., Inc., South Otselic, N. Y. Braided linen fishing lines. Nos. 150,675-6; Jan. 3.
- Gladding, B. F. & Co., Inc., South Otselic, N. Y. Linen fishing lines. No. 150,677; Jan. 3.
- Gladding, B. F. & Co., Inc., South Otselic, N. Y. Braided hie-thread fishing lines. No. 150,678; Jan. 3.
- Gladding, B. F. & Co., Inc., South Otselic, N. Y. Braided fishlines. No. 152,768; Mar. 7.
- Gladding, B. F. & Co., Inc., South Otselic, N. Y. Silk fishing lines. No. 152,787; Mar. 7.
- Gladding, B. F. & Co., Inc., South Otselic, N. Y. Fishing lines. Nos. 153,177-89; Mar. 14.
- Gladding, B. F. & Co., Inc., South Otselic, N. Y. Braided oil-silk fishing lines. No. 154,953; May 16.
- Gladding, B. F. & Co., Inc., South Otselic, N. Y. Silk fishing lines. No. 154,954; May 16.
- Gladding, B. F. & Co., Inc., South Otselic, N. Y. Enamelled silk fishing lines. No. 155,234; May 23.
- Gladding, B. F. & Co., Inc., South Otselic, N. Y. Fishing lines. No. 155,235; May 23.
- Gladding, B. F. & Co., Inc., South Otselic, N. Y. Braided fishing lines. No. 155,236; May 23.
- Gladding, B. F. & Co., Inc., South Otselic, N. Y. Fishing lines. No. 155,329; May 23.
- Gladding, B. F. & Co., Inc., South Otselic, N. Y. Hard-braid casting lines. No. 155,893; June 6.
- Gladding, B. F. & Co., Inc., South Otselic, N. Y. Fishing lines. Nos. 156,122-5; June 13.
- Gladding, B. F. & Co., Inc., South Otselic, N. Y. Fishing lines. Nos. 156,516-17; June 27.
- Gladiator Manufacturing Company, Auburn, Ind. Timers for electrical ignition system for hydrocarbon engines. No. 151,492; Feb. 7.
- Gladly Hair Net Company, Inc., Wilmington, Del., and New York, N. Y. Hair nets. No. 152,788; Mar. 7.
- Gladly Hair Net Company, Inc., Wilmington, Del., and New York, N. Y. Hair nets. No. 153,176; Mar. 14.
- Gladstein, Stark & Friedberg, New York, N. Y. Mesh veiling, silk nets, elastic veils. No. 154,279; Apr. 11.
- Gladstone, Ph. N. Corp., New York, N. Y. Petticoats and pantaloons. No. 151,135; Jan. 24.
- Glafke, W. B., Co., Portland, Oreg. Fresh deciduous fruits—namely, apples. No. 154,790; May 9.
- Glaser, Gustav, Co., Inc., New York, N. Y. Bread pans, coffee boilers, dinner carriers, etc. No. 156,284; June 20.
- Glass Coating Company, The, Cleveland, Ohio. Steel tanks or containers for liquids. No. 151,136; Jan. 24.
- Glass Container Association of America, New York, N. Y. Monthly publication. No. 162,507; Dec. 19.
- Glass, Henry & Co., New York, N. Y. Plain woven and printed cotton piece goods. No. 150,824; Jan. 10.
- Glass, Henry & Co., New York, N. Y. Cotton piece goods. No. 152,790; Mar. 7.
- Glass, Henry & Co., New York, N. Y. Cotton piece goods. No. 162,963; Dec. 26.
- Glasser, C. T., doing business as Pappette Confection Co., Minneapolis, Minn. Candied pop corn. No. 160,502; Oct. 24.
- Glasser, D. C., Tobacco Company, Dubuque, Iowa. Cigars and chewing tobacco. No. 157,485; Aug. 8.
- Glasser, Edward, Reading, Pa. Men's and ladies' cotton and silk hosiery. No. 151,296; Jan. 24.
- Glassman, Albert A., New York, N. Y. Certain medicinal preparation. No. 157,335; Aug. 1.
- Glazier Mfg. Company, The, South Glastonbury, Conn. Woolen piece goods. No. 159,695; Oct. 3.
- Gleim, Nellie A., Cleveland, Ohio. Toilet preparations. No. 150,379; Jan. 3.
- Glemby's, S., Sons Co. Inc., New York, N. Y. Hair nets. No. 156,265; June 20.
- Glemby's, S., Sons Co. Inc., New York, N. Y. Hair nets. Nos. 159,696-8; Oct. 3.
- Glemby's, S., Sons Co. Inc., New York, N. Y. Powder puffs. Nos. 160,503-4; Oct. 24.
- Glemby's, S., Sons Co., Inc., New York, N. Y. Hair nets. Nos. 161,480-1; Nov. 14.
- Glemby's, S., Sons Co., Inc., New York, N. Y. Hair nets. No. 162,761; Dec. 26.
- Glenn, Zollie L., Chaffee, Mo. Nonalcoholic, maltless beverage and sirup for making the same. No. 155,427; May 30.
- Glenwood Manufacturing Company. (See Hague, Harry.)
- Glidden Company, The, Cleveland, Ohio. Disinfectants. No. 157,336; Aug. 1.
- Glidden Company, The, Cleveland, Ohio. Insecticide. No. 159,882; Oct. 10.
- Globe Cotton Oil Mills, Los Angeles, Calif. Salad and cooking oil made from cotton seed. No. 151,774; Feb. 14.
- Globe Drug Company, Florence, S. C. Medicinal and pharmaceutical preparation. No. 150,380; Jan. 3.
- Globe Grain & Milling Company, Los Angeles, Calif. Poultry food, animal-feeding stuffs, vegetable-oils for cooking, etc. No. 152,791; Mar. 7.
- Globe Grain & Milling Company, Los Angeles, Calif. Wheat flour, macaroni, spaghetti, corn meal, etc. No. 162,762; Dec. 26.
- Globe Marine Compositions Co., New York, N. Y. Ready-mixed paints. No. 160,342; Oct. 17.
- Globe Refining Company, The, Cleveland, Ohio. Lubricating oil and grease. No. 158,684; Sept. 12.
- Globe Soap Company, The, Cincinnati, Ohio. Soap. No. 151,775; Feb. 14.
- Globe Soap Company, The, Cincinnati, Ohio. Soap. No. 155,428; May 30.
- Glorianna Silk Mills Inc., Jersey City, N. J. Hosiery, underwear, fabric gloves. No. 154,551; Apr. 18.
- Glosbrenner, Charlotte L., York, Pa. Dolls. No. 152,792; Mar. 7.
- Glotex Hosiery Co., New York, N. Y. Hosiery. No. 157,961; Aug. 22.
- Goblinto Company, Chicago, Ill. Toy air guns (for shooting air balls). No. 157,507; Aug. 8.
- Go-Co Compound Co., The, New York, N. Y. Furniture and automobile polishes, black enamel, paint remover. No. 154,280; Apr. 11.
- Godbold, Ernest H., London, England. Fabricated insoling. No. 154,034; Apr. 4.
- Goddard, J. W., & Sons, Incorporated, New York, N. Y. Cotton piece goods. No. 161,482; Nov. 14.
- Godel, E. & Sons, Peoria, Ill. Hams, boiled, skinned, slicing, picnic, and bacon, and bacon squares. No. 154,791; May 9.
- Godwin, A. L., Products Company, Los Angeles, Calif. Custard powder. No. 155,968; June 13.
- Goelitz, Herman, Portland, Oreg. Candy. No. 156,518; June 27.
- Goetz Gasket and Packing Company, North New Brunswick, N. J. Machinery packing of metal and asbestos. No. 156,594; July 4.
- Goheen Corporation, The, Wilmington, Del., and Newark, N. J. Paint. No. 150,383; Jan. 3.
- Goheen Corporation, The, Wilmington, Del., and Newark, N. J. Paints and colors. No. 151,137; Jan. 24.
- Goheen Corporation, The, Wilmington, Del., and Warren, Ohio. Paint for structural steel. No. 152,793; Mar. 7.
- Goheen Corporation, The, Wilmington, Del., and Warren, Ohio. Paints for foundation and finishing coats on certain materials. No. 156,519; June 27.
- Goheen Corporation, The, Wilmington, Del., and Warren, Ohio. Paints for foundation and finishing coats. No. 159,360; Sept. 26.
- Goheen Corporation, The, Wilmington, Del., and Warren, Ohio. Paint for steel, iron, wood, concrete, cement, tile, and plaster. No. 159,699; Oct. 3.
- Goheen Corporation, The, Wilmington, Del., and Warren, Ohio. Waterproofing compound for concrete, plaster, and stucco. No. 160,195; Oct. 17.
- Go-It Manufacturing Company, Kokomo, Ind. Filling attachments for tanks placed under the seats of automobiles. No. 162,764; Dec. 26.
- Goldaber, M. & Co., New York, N. Y. Human-hair nets. No. 159,700; Oct. 3.
- Goldberg, Eli F., Rochester, N. Y. Dental syringes. No. 161,484; Nov. 14.
- Goldberg, Eli F., Rochester, N. Y. Razors, shears, and files. No. 161,485; Nov. 14.
- Goldberg, I., and Sons, Boston, Mass. Tennis shoes. No. 158,964; Sept. 19.
- Goldberg, Isaac, New York, N. Y. Fabric slippers. No. 157,076; July 25.
- Goldberg, Isidor, Brooklyn, N. Y. Hose supporters, arm bands, garters. No. 157,508; Aug. 8.

- Goldberg Padding Machine Company, The, Cincinnati, Ohio. Sewing machines. No. 150,825; Jan. 10.
- Goldberg Reuben L., New York, N. Y. Series of cartoons. No. 151,777; Feb. 14.
- Goldblatt, Louis I., Kansas City, Mo. Certain named tools. No. 161,696; Nov. 14.
- Gold-Patent Manufacturing Co., Inc., New York, N. Y. Waterproofed top and seat cover cloth of a textile nature. No. 162,763; Dec. 26.
- Golden, Asher, New York, N. Y. Transparent shades, shields, and screens for lamps. No. 160,196; Oct. 17.
- Golden Belt Manufacturing Company, Durham, N. C. Hosiery. No. 161,144; Nov. 7.
- Goldenberg, Benjamin, West Hoboken, N. J. Corsets and brassieres. No. 161,364; Nov. 7.
- Goldenberg Brothers & Company, New York, N. Y. Cotton piece goods. No. 150,381; Jan. 3.
- Goldenberg, David, Philadelphia, Pa. Candy. No. 151,776; Feb. 14.
- Goldenberg, David, Philadelphia, Pa. Candy. No. 153,875; Mar. 14.
- Goldenberg, Joseph G., doing business as Standard Veterinary Products Company, Philadelphia, Pa. Shampoo, liniment, medicated alcohol, and mange mixture. No. 160,871; Oct. 31.
- Goldenberg's, Washington, D. C. Fabric gloves. No. 159,186; Sept. 19.
- Goldenberg's, Washington, D. C. Fabric gloves. No. 159,965; Sept. 19.
- Goldenberg's, Washington, D. C. Fabric gloves. No. 161,486; Nov. 14.
- Goldfarb & Friedberg, Inc., New York, N. Y. White gold. No. 160,505; Oct. 24.
- Goldfredrick, R. M., Chicago, Ill. Rain garment comprising combined hood and cape. No. 156,870; July 18.
- Golding Fabrics Corporation, New York, N. Y. Silk and artificial silk piece goods. No. 154,281; Apr. 11.
- Golding Fabrics Corporation, New York, N. Y. Silk and artificial-silk piece goods. No. 161,487; Nov. 14.
- Goldman, Benjamin T., St. Paul, Minn. Hair dyes, color restorers, and tonics. No. 155,696; June 6.
- Goldman, Eugene, doing business as Eugel Motor Truck Co., Chicago, Ill. Motor trucks. No. 160,506; Oct. 24.
- Goldman, Sigmund L., Chicago, Ill. Malt and fruit extracts and sirups. No. 151,778; Feb. 14.
- Goldman, Sigmund L., Chicago, Ill. Malt extracts in use in making nonalcoholic beverages. No. 154,955; May 16.
- Goldman, Sigmund L., doing business as Red Sun Products Co., Chicago, Ill. Root-beer extracts for making maltless beverages. No. 161,944; Nov. 28.
- Gold Mark Knitting Co., Woonsocket, R. I. Knitted goods of wool and wool mixture. No. 157,675; Aug. 15.
- Gold Mark Knitting Co., Woonsocket, R. I. Clothing. No. 161,483; Nov. 14.
- Gold Seal Knitting Mills, Reading, Pa. Hosiery. No. 156,266; June 20.
- Gold Seal Products Company, Inc., Urbana, N. Y. Champagnes and wines. No. 157,962; Aug. 22.
- Goldsmith Brothers Smelting and Refining Company, Chicago, Ill. Certain dental supplies. No. 153,453; Mar. 21.
- Goldsmith Brothers Smelting and Refining Company, Chicago, Ill. Certain articles of jewelry. No. 155,429; May 30.
- Goldsmith, L. & Son, Newark, N. J. Trunks. No. 150,382; Jan. 3.
- Goldsmith, Solomon W., Philadelphia, Pa. Laundry soap. No. 157,676; Aug. 15.
- Goldsmith & Lerner, Inc., New York, N. Y. Dress, negligee, and work shirts, pyjamas, collars, etc. No. 161,145; Nov. 7.
- Goldstein & Levin, Philadelphia, Pa. Outer skirts. No. 161,488; Nov. 14.
- Goldsmith, Stern and Co., New York, N. Y. Cigar cutters. No. 156,675; July 11.
- Goldstein, Bernard J., Brooklyn, N. Y. Motor-driven and hand-drawn fire extinguishers and chemical fire engines. No. 156,871; July 18.
- Goldstein, David S. & Co., Chicago, Ill. Coats, jackets, vests, waistcoats, trousers, etc. No. 157,963; Aug. 22.
- Goldstein-Lasater Company, Inc., New York, N. Y. Hosiery. No. 151,138; Jan. 24.
- Goldstein, M., & Co., New York, N. Y. Hand-knitting worsted yarn. No. 154,035; Apr. 4.
- Goldston, Nat. & Co., New York, N. Y. Dresses. No. 156,872; July 18.
- Goldy Brothers, New York, N. Y. Silk ribbons and silk and cotton ribbons. No. 157,964; Aug. 22.
- Golo Slipper Company, New York, N. Y. Footwear. No. 154,552; Apr. 18.
- Gomez & Sloan, Inc., New York, N. Y. Certain toilet preparations and chemicals used in the manufacture of same. No. 155,697; June 6.
- Gomez & Sloan, Inc., New York, N. Y. Certain cutlery, machinery, and tools. No. 155,969; June 13.
- Gomez & Sloan, Inc., New York, N. Y. Metal pipes, pipe fittings, soap containers, etc. No. 156,267; June 20.
- Gomez & Sloan, Inc., New York, N. Y. Antifriction metal, solder, machinery parts made of castings, and rails. No. 161,779; Nov. 21.
- Gomez & Sloan, Inc., New York, N. Y. Certain named food products. No. 162,079; Dec. 5.
- Gomillion, Alice G., Lonoke, Ark. Ointment for treating the scalp. No. 152,184; Feb. 21.
- Gong Bell Manufacturing Co., The, East Hampton, Conn. Toy graphophones and telephones. No. 152,408; Feb. 28.
- Gonick, Nisin, New York, N. Y. Poultry tonic and remedy used for moulting time to help chickens grow, for leg weakness, etc. No. 160,872; Oct. 31.
- Good, Geo. S., Fire Brick Co., Patton, Pa. Fire bricks and paving blocks. No. 160,507; Oct. 24.
- Goode & Dunkie, Covington, Ky. Wheat flour. No. 161,489; Nov. 14.
- Goodell-Pratt Company, Greenfield, Mass. Certain tools and machinery. No. 156,520; June 27.
- Goodhand, Smith & John, Wilmington, Del., and New York, N. Y. Leather fabric, etc., gloves. No. 157,077; July 25.
- Goodlatte, T. R., & Sons, Inc., Delawanna, N. J., and New York, N. Y. Oil cloth—viz, wall cloth. No. 162,765; Dec. 26.
- Goodman, A. I., doing business as Goodmans International Importing & Exporting Company, San Francisco, Calif. Watches. No. 160,095; Oct. 10.
- Goodman, Abe L., Chicago, Ill. Ice. No. 152,794; Mar. 7.
- Goodman, Henry B., Boston, Mass. Expense-account books. No. 154,956; May 16.
- Goodrich, B. F., Company, The, New York, N. Y. Pneumatic-tire casings of cord or thread and rubber construction. No. 150,826; Jan. 10.
- Goodrich, B. F., Company, The, New York, N. Y. Athletic goods. No. 151,140; Jan. 24.
- Goodrich, B. F., Company, New York, N. Y. Transmission belts and belting made of rubber combined with fabric. No. 151,387; Jan. 31.
- Goodrich, B. F., Company, The, New York, N. Y. Mats made wholly or partly of rubber or having rubber incorporated therein. No. 152,409; Feb. 28.
- Goodrich, B. F., Company, The, New York, N. Y. Belts for driving automobile fans and other machinery. No. 154,036; Apr. 4.
- Goodrich, B. F., Company, The, New York, N. Y. Rubber, wood-rim, and vulcanizing cements, etc. No. 158,347; Aug. 29.
- Goodrich, B. F., Company, New York, N. Y. Liquid wood-rim, vulcanizing, and rubber cements, repair gum, and outfits. No. 159,701; Oct. 3.
- Goodrich, B. F., Company, The, New York, N. Y. Hose and belting made of rubber reinforced with fabric, and packing. No. 159,883; Oct. 10.
- Goodrich, B. F., Company, The, New York, N. Y. Pneumatic-tire casings made of rubber combined with fabric. No. 159,884; Oct. 10.
- Goodrich, B. F., Company, The, New York, N. Y. Internally channeled or chambered rubber cushion tires. No. 160,776; Oct. 24.
- Goodsight, Julius, Washington, D. C. External preparation for cuts, bruises, wounds, etc. No. 154,282; Apr. 11.
- Goodspeed, Charles A., doing business as The Remind-O-Meter Company, Highland Park, Mich. Hand-operated counting registers. No. 159,361; Sept. 26.
- Goodwin, H. L., Kansas City, Mo. Coal and cordwood. No. 151,139; Jan. 24.
- Goodyear Rubber Co., San Francisco, Calif. Rubber belting. No. 160,197; Oct. 17.
- Goodyear Rubber Co., San Francisco, Calif. Rubber belting. No. 160,508; Oct. 24.
- Goodyear Tire & Rubber Company, The, Akron, Ohio. Rubber belting. No. 150,384; Jan. 3.
- Goodyear Tire & Rubber Company, The, Akron, Ohio. Elastic vehicle tires and tubes therefor composed wholly or in part of rubber. No. 151,779; Feb. 14.
- Goodyear Tire & Rubber Company, The, Akron, Ohio. Vehicle tires. No. 159,885; Oct. 10.
- Gordon, Hyman, New York, N. Y. Boots, shoes, leggings, spats, rubbers, gaiters, etc. No. 157,078; July 25.
- Gordon, Samuel, New York, N. Y. Pipes, cigar and cigarette holders and cases, tobacco bags, humidors. No. 155,430; May 30.
- Gordon, W. Lee, doing business as W. Lee Gordon Co., Richmond, Va. Potato chips and pop corn. No. 162,156; Dec. 5.
- Gordon, W. Lee, Co. (See Gordon, W. Lee.)
- Gordon & Co., London, England, assignor to Gordon's Dry Gin Co. Limited. Liquors and cordials. No. 21,734; renewed Sept. 13, 1922.
- Gordon & Ferguson, St. Paul, Minn. Certain articles of clothing. No. 157,509; Aug. 8.
- Gordon's Dry Gin Co. Limited. (See Gordon & Co., assignor.)
- Gorman, Walter J., Jersey City, N. J. Burial vaults. No. 162,434; Dec. 12.
- Goshen Printery, The, Goshen, Ind. Transfer labels. No. 157,510; Aug. 8.
- Goshen Sash and Door Company, Goshen, Ind. Construction material. No. 152,795; Mar. 7.
- Gossage, William, & Sons Limited. (See Gossage, Wm., & Sons, assignors.)
- Gossage, Wm., & Sons, Widnes and Liverpool, assignor to William Gossage & Sons, Limited, Widnes, Lancashire, England. Soap. No. 21,918; renewed Nov. 1, 1922.
- Gossage, Wm., & Sons, Widnes and Liverpool, assignor to William Gossage & Sons, Limited, Widnes, Lancashire, England. Soap. No. 21,921; renewed Nov. 1, 1922.

Alphabetical list of registrants of trade-marks—Continued.

- Gossage, Wm., & Sons, Widnes and Liverpool, assignor to William Gossage & Son, Limited, Widnes, Lancashire, England. Laundry and toilet soap. Nos. 22,201-2; renewed Dec. 20, 1922.
- Gosselin, Etienne, Biddeford, Me. Salve for the treatment of sores, burns, boils, eczema, and the like. No. 158,966; Sept. 19.
- Gotham Novelty Co., New York, N. Y. Children's suits and dresses. No. 156,873; July 18.
- Gotham Optical Co., Inc., New York, N. Y. Eyeglasses, spectacles, and goggles. No. 158,223; Aug. 29.
- Gotham Shoe Mfg. Co., Inc., Binghamton, N. Y. Leather shoes. No. 154,533; Apr. 18.
- Gottlieb Bros., New York, N. Y. Fur garments. No. 150,827; Jan. 10.
- Gottlieb, Samuel, New York, N. Y. Push cards. No. 162,254; Dec. 12.
- Gottmann, Theodore & Sons, Chicago, Ill. Candy. No. 151,780; Feb. 14.
- Gould, George, doing business as The Nu-Do Process Company, New York, N. Y. Chemical food for yeast plant. No. 158,224; Aug. 29.
- Gould Manufacturing Company. (See Richards Manufacturing Company, assignor.)
- Gould, Felix, New York, N. Y. Articles made of textile. No. 157,966; Aug. 22.
- Government Corporation, The, New York, N. Y. Certain articles of clothing. No. 160,198; Oct. 17.
- Governor Fastener Company, The, New York, N. Y. Belts, belting, and elastics. No. 161,490; Nov. 14.
- Gowen-Lecesse, Anne V., Paris, France. Basic materials having bauxite foundation used in the manufacture of refractory bricks and emery wheels. No. 159,886; Oct. 10.
- Grab, O. F., & Co., New York, N. Y. Certain articles of clothing. No. 156,874; July 18.
- Grace Darling Candy Shop, Inc., Minneapolis, Minn. Candy. No. 160,443; Oct. 24.
- Graceline Knitting Company, Linfield, Pa. Ladies' knitted underwear. No. 160,199; Oct. 17.
- Grady, E. C., Produce Company, Reinbeck, Iowa. Butter, eggs, and dressed poultry. No. 153,730; Mar. 28.
- Grady Mfg. Co., The, Long Island City, N. Y. Tile and porcelain cleanser. No. 151,781; Feb. 14.
- Graff, Washbourne & Dunn, New York, N. Y. Electric fans and heaters. No. 151,493; Feb. 7.
- Graffin, Lewis, St. Louis, Mo. Absorbent shredded wood fillers for fibrous sheets and other forms. No. 152,797; Mar. 7.
- Graffin, Lewis, St. Louis, Mo. Strengthening or reinforcing shedded wood fillers for fibrous sheets and other forms. No. 152,798; Mar. 7.
- Graff-O-Products Co., The, Cleveland, Ohio. Penetrating graphite. No. 152,796; Mar. 7.
- Graf-Rosen Co., New York, N. Y. Men's hats and caps. No. 158,967; Sept. 19.
- Graham-Bumgarner Company, Parkersburg, W. Va. Shoes made wholly or in part of leather. No. 152,069; Feb. 14.
- Graham, Harry H., Cleveland, Ohio. Leather cleaning and polishing material. No. 162,157; Dec. 5.
- Graham Paper Company, St. Louis, Mo. Tissue toilet paper. No. 153,731; Mar. 28.
- Graham Paper Company, St. Louis, Mo. Wrapping paper. No. 156,268; June 20.
- Graham, William, New York, N. Y. Leather. No. 160,509; Oct. 24.
- Grain Juice Company, Dallas, Tex. Beverages sold as soft drinks and sirups for making same. No. 160,200; Oct. 17.
- Grale Packing Company, The, Roselle, N. J. Laxative food. Nos. 152,799-80; Mar. 7.
- Gram, Barnett L., St. Louis, Mo. Men's, boys', and children's hats and caps. No. 151,782; Feb. 14.
- Gramercy Chocolate Company, Inc., New York, N. Y. Candy. No. 157,079; July 25.
- Grammes, L. E., & Sons, Allentown, Pa. Nail pullers. No. 152,410; Feb. 28.
- Grand Junction Mining & Fuel Company, The, Denver, Colo. Bituminous coal. No. 162,766; Dec. 26.
- Grand Rapids Varnish Corporation, Grand Rapids, Mich. Varnishes. No. 151,327; Jan. 31.
- Granger & Co., Buffalo, N. Y. Coffee. No. 151,783; Feb. 14.
- Grant, Angus, Edmonton, Alberta, Canada. Puncture-healing composition for pneumatic tires. No. 158,446; Sept. 5.
- Grant Leather Corporation, Kingsport, Tenn. Leather belting. No. 157,080; July 25.
- Grant, W. T., Company, New York, N. Y. Candy. No. 156,676; July 11.
- Grant, W. T., Co., New York, N. Y. Saws. No. 157,259; July 25.
- Grant, W. T., Company, New York, N. Y. Dry batteries. No. 158,447; Sept. 5.
- Grant, W. T., Company, New York, N. Y. Infant's hosiery. No. 158,968; Sept. 19.
- Grant, W. T., Company, New York, N. Y. Stair carpeting and tapestry rugs. No. 161,491; Nov. 14.
- Grape Ola Products Corporation, New York, N. Y. Non-alcoholic maltless beverage sold as a soft drink. No. 157,967; Aug. 22.
- Grasselli Chemical Company, Cleveland, Ohio. Dyes and dyestuffs. Nos. 150,385-91; Jan. 3.
- Grasselli Chemical Company, The, Cleveland, Ohio. Dyes and dyestuffs. Nos. 153,732-3; Mar. 28.
- Grasselli Chemical Company, The, Cleveland, Ohio. Dyes and dyestuffs. Nos. 155,431-3; May 30.
- Grasselli Chemical Company, The, Cleveland, Ohio. Dyes and dyestuffs, mordants, and photographic chemicals. No. 156,269; June 20.
- Grasselli Chemical Company, Cleveland, Ohio. Dye and dyestuffs. Nos. 156,270-1; June 20.
- Grasselli Chemical Company, The, Cleveland, Ohio. Chemical preparations for certain purposes. No. 156,272; June 20.
- Grasselli Chemical Company, The, Cleveland, Ohio. Dyes and dyestuffs. Nos. 156,273-5; June 20.
- Grasselli Chemical Company, The, Cleveland, Ohio. Antiseptics, disinfectants, fungicides, and insecticides. No. 156,276; June 20.
- Grasselli Chemical Company, The, Cleveland, Ohio. Dyes and dyestuffs. Nos. 156,277-9; June 20.
- Grasselli Chemical Company, The, Cleveland, Ohio. Photographic developers. No. 156,280; June 20.
- Grasselli Chemical Company, The, Cleveland, Ohio. Chemical for preventing decomposition. No. 156,281; June 20.
- Grasselli Chemical Company, The, Cleveland, Ohio. Fancy yarns and acetylcellulose thread. No. 157,081; July 25.
- Grasselli Chemical Company, The, Cleveland, Ohio. Dyes and dyestuffs. No. 158,449; Sept. 5.
- Grasselli Chemical Company, The, Cleveland, Ohio. Fumigating materials, fungicides, and insecticides. No. 161,146; Nov. 7.
- Grasser Chemical Company Inc., New Orleans, La. Mordants. No. 152,185; Feb. 21.
- Graton & Knight Manufacturing Company, The, Worcester, Mass. Leather belting. No. 159,887; Oct. 10.
- Grauley, Estate of Henry B., Philadelphia, Pa. Cigars. No. 150,828; Jan. 10.
- Graves, Agnes C., Milwaukee, Wis. Skin lotions. No. 153,734; Mar. 28.
- Graves, Charles W., Logansport, Ind. Breakfast cereals and breads. No. 153,190; Mar. 14.
- Graves, Isabel, Philadelphia, Pa., and Newton, Mass. Jellies, fruit preserves, conserves, and canned fruits. No. 156,677-8; July 11.
- Graves, W. H., Pittsburg, Kans. Preparation for use as a mouth cleanser. No. 152,186; Feb. 21.
- Gravier, Alphonse, Neuilly-sur-Seine, France. Perfumes, toilet waters, lotions, brillantines, etc. Nos. 150,392-3; Jan. 3.
- Gray-Hathaway Wood Heel Company, Lynn, Mass. Wood heels. No. 157,082; July 25.
- Gray, John & Company, Limited, Glasgow, Scotland. Fruit jams, jellies, preserves, and marmalade. No. 151,784; Feb. 14.
- Gray Motor Corporation, Detroit, Mich. Automobiles and their structural parts. No. 157,083; July 25.
- Gray, Myrtle, Clever, Mo. Face powder. No. 155,434; May 30.
- Gray Shop, Inc., The, Philadelphia, Pa. Knitted fabric hosiery and ladies' undergarments. No. 154,554; Apr. 18.
- Grays Harbor Shingle Company, Aberdeen, Wash. Wood shingles. No. 152,411; Feb. 28.
- Grays Harbor Shingle Co., Aberdeen, Wash. Red-cedar shingles. No. 159,702; Oct. 3.
- Greaney, Thomas E., doing business as Standard Neckwear Company, Boston, Mass. Neckties. No. 162,080; Dec. 5.
- Greanias, Tom G., Decatur, Ill. Cigars. No. 157,511; Aug. 8.
- Greason, Edgar, New York, N. Y. Fresh and cured fish and shell fish. Nos. 154,555-6; Apr. 18.
- Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Olive oil. No. 152,801; Mar. 7.
- Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Dried dates and figs. No. 152,802; Mar. 7.
- Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Raisins. No. 154,557; Apr. 18.
- Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Canned sardines. No. 158,448; Sept. 5.
- Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Butter. No. 159,362; Sept. 26.
- Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Beans and pork, canned fruits. No. 160,510; Oct. 24.
- Great Falls Dairy Products Company, Great Falls, Mont. Butter. No. 159,888; Oct. 10.
- Great Lakes Cigar Mfg. Co., Detroit, Mich. Cigars. No. 158,685; Sept. 12.
- Great Northern Fur Dyeing and Dressing Co. (See Pierini, Attilio.)
- Great Southern Refining Company, Lexington, Ky. Kerosene and gasoline. No. 162,767; Dec. 26.
- Great Western Milling Company, Los Angeles, Calif. Wheat flour. No. 160,511; Oct. 24.
- Great Western Smelting & Refining Company, Chicago, Ill. Babbitt metal, solder, brass, aluminum, etc. No. 152,412; Feb. 28.
- Great Western Smelting & Refining Company, Chicago, Ill. Solder. Nos. 153,735-6; Mar. 28.

- Great Western Smelting & Refining Co., Chicago, Ill., and San Francisco, Calif. Babbitt and antifriction metals. No. 153,929; Mar. 28.
- Great Western Smelting and Refining Company, Chicago, Ill. Solder. No. 158,348; Aug. 29.
- Great Western Smelting & Refining Company, Chicago, Ill. Solder. No. 162,081; Dec. 5.
- Greater Manhattan Knitting Mills, Inc., New York, N. Y. Sweaters. No. 155,330; May 23.
- Greco Canning Co., Inc., San Jose, Calif. Tomato sauce. No. 162,255; Dec. 12.
- Greek Confectioner Publishing Co., The, Chicago, Ill. Monthly publication. No. 162,256; Dec. 12.
- Green, A. P., Fire Brick Co., Mexico, Mo. Fire-brick cement. No. 160,512; Oct. 24.
- Green, Anna B., Yoakum, Tex. Liniment. No. 160,873; Oct. 31.
- Green Foundry & Furnace Works, Des Moines, Iowa. Furnaces for heating buildings. No. 160,201; Oct. 17.
- Green, Frances H., doing business as Madame Polly, New York, N. Y. Peppermint astrigent. No. 158,225; Aug. 29.
- Green Label Stove Polish Co. (See Black, Samuel L.)
- Green, Phoebe Company, Yakima, Wash. Fruit marmalades, jams, conserves, etc. No. 156,910; July 18.
- Green, Stein & Kurzwel, New York, N. Y. Ladies' hats. No. 160,774; Oct. 24.
- Green Top Company, The, New Iberia, La. Condiments and spices. No. 157,085; July 25.
- Green, Wayne B., Houston, Tex. Paint renovator. No. 156,521; June 27.
- Green and Green Company, The, Dayton, Ohio. Cheese crackers. No. 151,785; Feb. 14.
- Green and Green Company, The, Dayton, Ohio. Chocolate-coated crackers. No. 161,148; Nov. 7.
- Greenbaum Bros., Inc., Seaford, Del. Catsup and chilli sauce. No. 151,786; Feb. 14.
- Greenbaum Bros., Inc., Seaford, Del. Chilli sauce and catsup. No. 154,558; Apr. 18.
- Greenbaum Bros., Inc., Seaford, Del. Tomato catsup, chilli sauce, and canned pork and beans. No. 156,679; July 11.
- Greenbaum Company, The, Louisville, Ky. Medicated healing ointment or salve. No. 161,149; Nov. 7.
- Greenbaum, Weil & Michels, San Francisco, Calif. Men's dress, work, and negligee shirts. No. 157,084; July 25.
- Greenberg, Earl N., Minneapolis, Minn. Skin lotion. No. 153,737; Mar. 28.
- Greenberg, Harry, Co., Inc., New York, N. Y. Ladies' and misses' coats and suits. No. 156,282; June 20.
- Greene, Tweed & Co., New York, N. Y. Lubricators. No. 152,592; Feb. 28.
- Greene, William E., New York, N. Y. Paints, varnishes, and waterproofing compounds in the nature of paints. No. 159,187; Sept. 19.
- Greenfield, Isidor, Brooklyn, N. Y. Hats for feminine wear. No. 161,365; Nov. 7.
- Greenfield's, E., Sons, New York and Brooklyn, N. Y. Chocolate candies. No. 152,413; Feb. 28.
- Greenfield's, E., Sons, New York and Brooklyn, N. Y. Candies and chocolates. No. 154,559; Apr. 18.
- Greengard, Louis, St. Louis, Mo. Medicinal preparation for colds, la grippe, headaches, influenza. No. 151,494; Feb. 7.
- Greenhut, Herman J., Pensacola, Fla. Candies and canned soups. No. 156,522; June 27.
- Greening Nursery Co., The, Monroe, Mich. Nursery products. No. 151,389; Jan. 31.
- Greening Nursery Co., The, Monroe, Mich. Certain nursery products. No. 155,971; June 13.
- Greenspan, Marius, Chicago, Ill. Automobile rubber tires. No. 154,037; Apr. 4.
- Greenwald, Friedman & Co., New York, N. Y. Tailor-made dresses. No. 161,150; Nov. 7.
- Greenwald, S. H., Co., Inc., New York, N. Y. Cotton fabrics. No. 154,283; Apr. 11.
- Greenwood, F., Inc., Paterson, N. J. Nonalcoholic, non-crenol, maltless beverages, and sirups for making the same. No. 157,968; Aug. 22.
- Greer, Edward F., Vandalia, Ill. Preparation for treatment of pyorrhea. No. 151,495; Feb. 7.
- Greer, John H., San Francisco, Calif. Portable savings bank. No. 154,957; May 16.
- Gref & Schmidt. (See Henckels, J. A., assignor.)
- Gregory & Read Company, Lynn, Mass. Women's boots and shoes. No. 158,969; Sept. 19.
- Greig, George W., Wheeling, W. Va. Men's ready-made suits. No. 154,560; Apr. 18.
- Grist Manufacturing Company, The, New Haven, Conn. Pressure gauges for pneumatic tires, etc. No. 154,958; May 16.
- Grennan Cake Corporation, Chicago, Ill. Cake. No. 153,456; Mar. 21.
- Grennan Cake Corporation, Cleveland, Ohio; Detroit, Mich.; St. Paul and Minneapolis, Minn.; and Chicago, Ill. Cakes, cookies, and fried cakes. No. 160,513; Oct. 24.
- Grenoble, Arthur G., Baltimore, Md. Serum for the treatment of cancer. No. 158,970; Sept. 19.
- Grenoville, Marie M. Richard vve., Asnieres, France. Perfumes, toilet waters, face lotions, eau de cologne, and brilliantine. No. 152,187; Feb. 21.
- Grenoville, Marie M. Richard vve., Asnieres, France. Perfumes, toilet waters, brilliantine. No. 152,188; Feb. 21.
- Grenoville, Marie M. Richard vve., Asnieres, France. Perfumes, toilet waters, etc. No. 155,553; May 30.
- Grewen Fabric Company, Inc., Johnstown, N. Y. Cloth gloves. No. 157,086; July 25.
- Grey, C. M., Mfg. Co., East Orange, N. J. Electrical apparatus. No. 150,829; Jan. 10.
- Grey, C. M., Mfg. Co., East Orange, N. J. Automobile locks. No. 153,738; Mar. 28.
- Grey, Herbert J., New York, N. Y. Outing outfits. No. 152,414; Feb. 28.
- Gribbon Company, Inc., New York, N. Y. Cotton handkerchiefs. No. 159,703; Oct. 3.
- Griffin Choker Ash Tray, Inc., Philadelphia, Pa. Ash trays. No. 157,512; Aug. 8.
- Griffin Manufacturing Company, Inc., New York, N. Y. Shoe polish. No. 155,698; June 6.
- Griffith, Frances M., Rochester, N. Y. Face powders and creams, rouges, skin and toilet waters, etc. No. 161,151; Nov. 7.
- Griffith, John A., Co. Incorporated, Chicago, Ill. Textile suitings for men. No. 161,780; Nov. 21.
- Grimberg, John, New York, N. Y. Garment hangers. No. 157,087; July 25.
- Grinnell Games. (See Blank, Vernon D.)
- Grinnell, Maurice W., New York, N. Y. Textile fabric coated with waterproof material and having an ornamental finish. No. 157,088; July 25.
- Grinnell Washing Machine Company, Grinnell, Iowa. Washing machines. No. 158,226; Aug. 29.
- Griscom-Russell Company, The, New York, N. Y. Oil heaters, oil and gas water heaters, heat exchanges. No. 154,038; Apr. 4.
- Griscom-Russell Company, The, New York, N. Y. Air and gas compressors, vapor condensers, and liquid evaporators. No. 155,972; June 13.
- Griscom-Russell Company, The, New York, N. Y. Pressure regulators, strainers, expansion joints, and feed-water-purifying apparatus. No. 156,283; June 20.
- Griste, Wiley G., Summerton, S. C. Chilli tonic and mange remedy. No. 154,039; Apr. 4.
- Grocerlane Store Association, The. (See Tribble, Robert A.)
- Grommes & Elson, Chicago, Ill. Cigars. No. 152,804; Mar. 7.
- Grondahl, Joseph, New York, N. Y. Golf balls, bags, and clubs. No. 151,142; Jan. 24.
- Grone & Co., St. Louis, Mo. Beverages, more specifically soda water. No. 159,889; Oct. 10.
- Groover-Stewart Drug Company, The, Jacksonville, Fla. Insecticides for flies, mosquitos. No. 153,739; Mar. 28.
- Gross, Joseph S., Los Angeles, Calif. Honey. No. 152,805; Mar. 7.
- Gross, William H., doing business as Bel-Mont Laboratories, Philadelphia, Pa. Certain medicinal preparations. No. 160,874; Oct. 31.
- Gross, William H., doing business as Bel-Mont Laboratories, Philadelphia, Pa. Medicinal preparation used in the treatment of certain diseases. Nos. 160,875-6; Oct. 31.
- Gross, William H., doing business as Bel-Mont Laboratories, Philadelphia, Pa. Medicinal preparation used in the treatment of certain ailments. No. 160,877; Oct. 31.
- Gross, Zoldo & Ronay Inc., New York, N. Y. Finger rings and mountings therefor. No. 152,803; Mar. 7.
- Grosset & Dunlap, Inc., New York, N. Y. Series of books published periodically. Nos. 151,787-8; Feb. 14.
- Grosset & Dunlap, Inc., New York, N. Y. Series of books published periodically. No. 162,257; Dec. 12.
- Grossman, Esther, New York, N. Y. Insecticide and vermicide. No. 154,040; Apr. 4.
- Grossman, J., & Co. Inc., New York, N. Y. Cotton piece goods. No. 156,800; July 11.
- Grossmann, J., & Co., Inc., New York, N. Y. Cotton piece goods. No. 161,492; Nov. 14.
- Grove, Neamatla, Merritts Island, Fla. Fresh citrus fruits. Nos. 152,415-17; Feb. 28.
- Groveland Citrus Growers Association, Groveland, Fla. Fresh citrus fruits—viz, oranges and grapefruit. No. 161,945; Nov. 28.
- Grover's, J. J., Sons Company, Lynn, Mass. Boots, shoes, slippers. No. 157,089; July 25.
- Grow, Thomas S., Allentown, Pa. Phonograph-record brushes. No. 154,041; Apr. 4.
- Grumbacher, Max, New York, N. Y. Artists' brushes. No. 156,523; June 27.
- Grumbacher, Max, New York, N. Y. Artists' brushes. Nos. 156,801-3; July 11.
- Grumbacher, Max, New York, N. Y. Artists' brushes. Nos. 158,686-94; Sept. 12.
- Grumbacher, Max, New York, N. Y. Artists' brushes. No. 159,363; Sept. 26.
- Gsell, Roland A., New York, N. Y. Watches and watch movements, watchcases, and parts thereof. No. 161,493; Nov. 14.
- Guarantee Hair and Novelty Works, The, New York, N. Y. Hair nets. Nos. 153,457-8; Mar. 21.
- Guarantee Liquid Measure Company, Rochester, Pa. Measuring pumps for gasoline and oil. No. 157,260; July 25.
- Guarantee Liquid Measure Company, Rochester, Pa. Liquid measuring and dispensing pumps. No. 162,768; Dec. 26.

Alphabetical list of registrants of trade-marks—Continued.

- Guaranty Egg Corporation, New York, N. Y. Eggs. No. 159,890; Oct. 10.
- Gude Bros. Co., Washington, D. S. Natural flowers and plants and floral decorations. No. 153,191; Mar. 14.
- Gudebrod Bros. Silk Co., New York, N. Y., and Philadelphia, Pa. Spool silk. No. 156,524; June 27.
- Guhl & Harbeck, Hamburg, Germany. Sewing machines. No. 152,418; Feb. 28.
- Guild Products Corporation, Philadelphia, Pa. Blank books, pads, ledgers, binders, stenographers' notebooks, etc. No. 159,364; Sept. 26.
- Guild Products Corporation, Philadelphia, Pa. Muilage, paste, glue, and sealing wax. No. 161,946; Nov. 28.
- Guterman Brothers, St. Paul, Minn. Negligee shirts and outer clothing. No. 161,494; Nov. 14.
- Gulbrandsen-Dickinson Company, Chicago, Ill. Player piano. No. 150,831; Jan. 10.
- Gulf Coast Produce Exchange, Mobile, Ala. Fresh cabbage, beans, potatoes, peaches, watermelons. No. 152,419; Feb. 28.
- Gum-Ze Manufacturing Co., Los Angeles, Calif. Gasket-sealing composition. No. 159,622; Sept. 26.
- Gundermann, Philip H., doing business as Atlas Torch Mfg. Co., Chicago, Ill. Plumbers' torches. No. 160,202; Oct. 17.
- Gunter, Daniel J., doing business as Fulton Drug Co., Atlanta, Ga. Blood purifier and nerve tonic. No. 161,152; Nov. 7.
- Gustafson, Jennie C., Seattle, Wash. Liniment for the treatment of rheumatism. No. 161,147; Nov. 7.
- Guthmann, Carpenter & Telling, Chicago, Ill. Leather shoes and oxfords. No. 156,126; June 13.
- Guthrie & Co., Limited, Singapore. Straits Settlements, and London, England. Coats, suits, underwear, hosiery, neckties, shirts, etc. No. 161,153; Nov. 7.
- Guthrie & Co., Limited, Singapore. Straits Settlements, and London, England. Certain clothing. No. 161,154; Nov. 7.
- Gutter, B., & Sons, New York, N. Y. Watches, watchcases, and watch movements. Nos. 151,496-8; Feb. 7.
- Gutter, Sigisbie, New York, N. Y. Watches, watchcases, and watch movements. No. 150,832; Jan. 10.
- Guttermann, A. M., & Sons Co., Boston, Mass. Leathers. No. 159,891; Oct. 10.
- Guttermann-Strauss Company, Boston, Mass. Sole leather. No. 160,203; Oct. 17.
- Guy, George H., Seattle, Wash. Certain chemical, medicinal, and pharmaceutical preparations. No. 155,699; June 6.
- Guy, John C., Company, Incorporated, The, Lexington, Ky. Cigars. No. 155,435; May 30.
- Guy, John C., Company, Incorporated, The, Lexington, Ky. Cigars. No. 160,204; Oct. 17.
- H. and A. Accessories, Chicago, Ill. Spark-plug extension. No. 158,450; Sept. 5.
- H. C. S. Motor Car Company, Indianapolis, Ind. Automobiles. No. 159,896; Oct. 10.
- H. & E. Cigar Company, Lancaster, Pa. Cigars. No. 152,423; Feb. 28.
- H. L. G. Manufacturing Company, Indianapolis, Ind. Shock absorbers for motor vehicles. No. 151,807; Feb. 14.
- H-O Cereal Company, Inc., The, Buffalo, N. Y. Animal, bird, and poultry feeds. No. 159,901; Oct. 10.
- H-O Cereal Company, Buffalo, N. Y. Animal, bird, and poultry feeds. No. 162,775; Dec. 26.
- H. P. M. Motors, Incorporated, New York, N. Y. Automobiles. No. 160,589; Oct. 24.
- H. & M. Mfg. Company, Tulsa, Okla. Sanitary belts. No. 161,947; Nov. 28.
- H and S Laboratories, Chicago, Ill. Metal polishes. No. 155,436; May 30.
- H. & S. Manufacturing Company, Los Angeles, Calif. Trousers. No. 157,105; July 25.
- H & W Company, The, Newark, N. J. Corsets, corset waists, brassieres, etc. No. 158,971; Sept. 19.
- Haartz, John C., Boston, Mass. Guernsey cows. No. 160,514; Oct. 24.
- Haas, Baruch & Co., Los Angeles, Calif. Certain foods and ingredients of foods. No. 153,740; Mar. 28.
- Haas Brothers Fabrics Corporation, New York, N. Y. Silk piece goods. No. 152,806; Mar. 7.
- Haas Bros. Fabrics Corporation, New York, N. Y. Silk, linen, woolen, and cotton, etc., piece goods. No. 152,807; Mar. 7.
- Haas Brothers Fabrics Corporation, New York, N. Y. Silk, artificial-silk, linen, woolen, and cotton piece goods, and combinations thereof. No. 161,495; Nov. 14.
- Haase, Ernest, doing business as The Bunny Coffee Company, Brooklyn, N. Y. Prepared coffee extracts. No. 158,695; Sept. 12.
- Habicht, Oscar Ed., Baltimore, Md. Polish for automobiles, pianos, furniture, etc. No. 154,042; Apr. 4.
- Hachmann, Frederick, assignor to Bock Novelty and Manufacturing Company, St. Louis, Mo. Shoe plates for boots and shoes. No. 157,573; Aug. 8.
- Hackley, P. B., Berkeley, Calif. Plows. No. 161,875; Nov. 21.
- Haddock, Parker & Co., Liverpool, England. Candles and oils. No. 158,696; Sept. 12.
- Hadfields Limited, Sheffield, England. Harness bits, stirrups, harness buckles, harness rings and chains, etc. No. 151,156; Jan. 24.
- Hadfields Limited, Sheffield, England. Athletic and sporting goods. No. 151,157; Jan. 24.
- Hadfields, Limited, Sheffield, England. Certain horse-drawn and motor vehicles and ships' propellers. No. 151,789; Feb. 14.
- Hadfields Ltd., Sheffield, England. Certain cutlery, machinery, and tools. No. 152,808; Mar. 7.
- Hadfields Limited, Sheffield, England. Certain projectiles, firearms, and equipments. No. 153,192; Mar. 14.
- Hadfields Limited, Sheffield, England. Certain valves, kitchen utensils, etc. No. 153,741; Mar. 28.
- Hadfields Limited, Sheffield, England. Calculating machines, philosophical air pumps, cameras, etc. No. 153,742; Mar. 28.
- Hadfields Limited, Sheffield, England. Fire fenders, furnace bars. No. 157,091; July 25.
- Hadfields, Limited, Sheffield, England. Certain instruments and appliances used by dentists and surgeons. No. 159,704; Oct. 3.
- Hadley Co., The, Springfield, Ohio. Certain household furniture. No. 151,790; Feb. 14.
- Hadley, Idale L., Hartford, Conn. Bed wardrobes and bedsteads. No. 153,972; Sept. 19.
- Hadley Milling Company, The, Olathe, Kans. Self-rising flour. No. 159,365; Sept. 26.
- Hadon Products Corporation, New York, N. Y. Cigarette and cigar holders. No. 155,437; May 30.
- Haeblerlein, Walter J., Camden, N. J. Oleomargarin. No. 159,374; Sept. 26.
- Haefeli Drug Co. (See Haefeli, William.)
- Haefeli, William, doing business as Haefeli Drug Co., New York. Salve for the treatment of muscular and inflammatory rheumatism. No. 161,155; Nov. 7.
- Haffenreffer & Co. (See New England Brewing Company.)
- Haffner Brothers Company, The, Cincinnati, Ohio. Harness leather and sole leather. No. 155,973; June 13.
- Hagan, Charles F., doing business as Wyrick Spring Company, Crockett, Va. Mineral and carbonated water. No. 162,082; Dec. 5.
- Hagen-Becker Co., The, Minneapolis, Minn. Malt extract. No. 153,743; Mar. 28.
- Hager, Albert R., Salt Lake City, Utah. Game (played with pieces similar to dominoes). No. 156,680; July 11.
- Hagerstown Shoe & Legging Co. Inc., Hagerstown, Md. Leather shoes. No. 156,127; June 13.
- Haggerty, F. E., and Son, San Francisco, Calif. Sirup composed of barley and hops for use in making home beverages. No. 151,158; Jan. 24.
- Hague, A. J., & Co., Inc., New York, N. Y. Hand sewing needles. Nos. 162,508-9; Dec. 19.
- Hague, Harry, trading as Glenwood Manufacturing Co., Glendale, Calif. Disinfectant. No. 158,227; Aug. 29.
- Hahn, Arthur W., New York, N. Y. Twisted-wire hair, clothes, bottle, paint, scrub, and shoe brushes. No. 162,009; Nov. 28.
- Hahn, Wm., & Co., Washington, D. C. Men's, women's, and children's shoes of leather and fabric. No. 157,093; July 25.
- Hail Products Co., Portland, Oreg. Waterproof dressing for leather, rubber, and fabrics in general, etc. No. 150,395; Jan. 3.
- Hainer, Whitfield J., Providence, R. I. Planchette boards. No. 154,959; May 16.
- Haines, Dr. A. C., Columbus, Ohio. Medicinal preparations used in the treatment of hemorrhoids. No. 157,339; Aug. 1.
- Hairlight Company, The, Leominster, Mass. Hair rolls and puffs. No. 157,677; Aug. 15.
- Hair Net Importing Co. Inc., New York, N. Y. Hair nets. No. 152,189; Feb. 21.
- Hairon Company. (See Hosick, Harry C.)
- Hairy Peruvian Alfalfa Seed Growers Association, Yuma, Ariz. Alfalfa seed. No. 153,193; Mar. 14.
- Hall & Ruckel. (See Hall, William H., assignor.)
- Hale Bros., Inc., San Francisco, Calif. Tablecloths and napkins. No. 159,705; Oct. 3.
- Hall, Edward E., doing business as Whetrite Company, Columbus, Ohio. Dressing in powdered form for use on razor strops. No. 162,770; Dec. 26.
- Hall Manufacturing Co., Chicago, Ill. Fiber needles for phonographs. No. 152,809; Mar. 7.
- Hall, Martin L., Company, Boston, Mass. Coffee. No. 151,791; Feb. 14.
- Hall, Mary E., Chicago, Ill. Monthly periodicals. No. 162,510; Dec. 19.
- Hall, Nathaniel L., Norfolk, Va. Nonalcoholic, maltless beverages sold as soft drinks and sirup for making same and sirup. No. 158,697; Sept. 12.
- Hall Room Boys Photoplays, Incorporated, New York, N. Y. Motion picture films. No. 154,284; Apr. 11.
- Hall, William, & Co. Limited, Studley, England. Needles, toilet pins, bodkins, etc. No. 150,833; Jan. 10.
- Hall, William H., New York, N. Y., assignor to Hall & Ruckel. Dentifrice. No. 20,552; renewed Jan. 5, 1922.
- Hallam, Ralph M., doing business as Chicago Piston Ring Co. (not Inc.), Chicago, Ill. Piston rings. No. 159,892; Oct. 10.

Alphabetical list of registrants of trade-marks—Continued.

- Hallet & Davis Piano Co. (See Conway, Carle C., et al., trustees.)
- Hallian, Joseph, Co. (See Hallian, Joseph.)
- Hallian, Joseph, doing business as Joseph Hallian Co., Boston, Mass. Transmission and differential grease and oils. No. 162,511; Dec. 19.
- Halliwell & Company. (See Brown, Richard H.)
- Halliwell & Patton Publishing Co., Inc., Chicago, Ill. Periodic publication. No. 155,287; May 28.
- Hallman, Emily, Chicago, Ill. Certain named toilet preparations. No. 158,228; Aug. 29.
- Hall's, J. S., Sons, Knoxville, Tenn. Leather shoes. No. 157,092; July 25.
- Haloid Company, The, Rochester, N. Y. Photographic developing paper. No. 151,499; Feb. 7.
- Haloid Company, The, Rochester, N. Y. Photographic developing papers. Nos. 154,285-6; Apr. 11.
- Halper, Victor, New York, N. Y. Medicinal preparation. No. 151,500; Feb. 7.
- Halpert Mills, Inc., The, Brooklyn, N. Y. Olive oil. No. 160,515; Oct. 24.
- Halstead Specialties Company, San Francisco, Calif. Rust solvent. No. 155,700; June 6.
- Hamberger-Polhemus Company, San Francisco, Calif. Kerosene. No. 162,771; Dec. 26.
- Hambo, Clifford G., Portland, Oreg. Medicinal preparation. No. 157,340; Aug. 1.
- Hamburger Co., The, Chicago, Ill. Nonintoxicating, non-alcoholic, noncereal fruit beverage, and sirups for same. No. 157,969; Aug. 22.
- Hamburger Factories Inc., Chicago, Ill. Certain cutlery and tools. No. 157,514; Aug. 8.
- Hammersley Mfg. Co., The, Garfield, N. J. Waxed paper. Nos. 161,876-81; Nov. 21.
- Hamilton Brown Shoe Company, The, Boston, Mass. Leather boots and shoes. Nos. 154,561-2; Apr. 18.
- Hamilton Card & Paper House, Inc., New York, N. Y. Certain specified articles of stationery. No. 154,960; May 16.
- Hamilton Card & Paper House, Inc., New York, N. Y. Bond paper for writing and printing purposes. No. 157,515; Aug. 8.
- Hamilton & Hansell, New York, N. Y. Nautical speedometers, logs, and distance recorders. No. 151,501; Feb. 7.
- Hamilton Manufacturing Company, The, Two Rivers, Wis. Printers' furniture. No. 158,973; Sept. 19.
- Hamler Boiler & Tank Company, Chicago, Ill. Steam-jacketed agitator-type dryers. No. 152,593; Feb. 28.
- Hammariund, Henning, Svargsta, Sweden. Speedometers. No. 157,970; Aug. 22.
- Hammel, Riglander & Co., New York, N. Y. Small metallic washers placed under clock and watch dials. No. 152,810; Mar. 7.
- Hammel, Riglander & Co., New York, N. Y. Gravers, chisels, gouges, &c. No. 153,194; Mar. 14.
- Hammell-Neuman Co., Philadelphia, Pa. Men's, women's, and children's hats. No. 155,701; June 6.
- Hammerbacher, George D., Baltimore, Md. Peanut taffy and other taffy and chocolate marshmallows. No. 151,792; Feb. 14.
- Hammer-Bray Co., Oakland, Calif. Refrigerators cooled by the evaporation of water from surrounding textile-fabric cover. No. 151,159; Jan. 24.
- Hammond, Standish & Co., Detroit, Mich. Oleomargarin. No. 159,366; Sept. 26.
- Hamoos Limited, London, England. Certain toilet preparations. No. 160,205; Oct. 17.
- Hancock, J. W., Electrical Co. (See Hancock, John W.)
- Hancock, John W., doing business as J. W. Hancock Electrical Co., Denver, Colo. Electric-light fixtures. No. 160,888; Oct. 31.
- Hancock-Smiths, Incorporated, Baltimore, Md. Liquid antiseptic and mouth wash. No. 160,878; Oct. 31.
- Hand, W. L., & Company, Charlotte, N. C. Remedy for biliousness, colds, etc. No. 151,502; Feb. 7.
- Handel-Maalschappij Planett, The Hague, Netherlands. Locks and safes. No. 155,021; May 16.
- Hanes, P. H., Knitting Company, Winston-Salem, N. C. Undergarments of knitted or woven material. No. 155,702; June 6.
- Hankey Baking Company, McKees Rocks, Pa. Bread. No. 159,367; Sept. 26.
- Hankcraft Company, Madison, Wis. Electric milk warmers, egg cookers, switches, and heaters for fireless cookers. No. 162,258; Dec. 12.
- Hanna, Walter A., Wilmette, Ill. Key-locking radiator caps for automobiles. No. 155,974; June 13.
- Hannaford Company, The, Los Angeles, Calif. Women's house and street dresses. No. 158,974; Sept. 19.
- Hannibal Pharmacal Company, St. Louis, Mo. Toilet articles—namely, depilatories and antiperspirants. No. 153,744; Mar. 28.
- Hanpeter, F. W., Furniture Company, St. Louis, Mo. Phonographs. No. 155,238; May 23.
- Hanscom Hardware Co., Haverhill, Mass. Snowshoes, skis, ski bindings and poles, sleds, baseballs, etc. No. 157,971; Aug. 22.
- Hansen, Harry A., Ashland, Wis. Preparation for the treatment of sore, weak, etc., eyes. No. 155,703; June 6.
- Hansen, Jorgen M., Lake Forest, Ill. Mattresses and cushions. No. 153,459; Mar. 21.
- Hansen, M. J., Fall River, Wis. Certain medicinal preparations. No. 158,349; Aug. 29.
- Hansen Nursery & Floral Co. (See Hansen, William M.)
- Hansen, William M., doing business as Hansen Nursery & Floral Co., Niles, Mich. Plants, shrubs, trees, cut flowers, and garden seeds. No. 159,893; Oct. 10.
- Hansen's, Chr. Laboratory, Inc., Little Falls, N. Y. Preparations for coagulating or curdling milk. No. 152,719; Mar. 7.
- Hansen's, Chr., Laboratory, Inc., Little Falls, N. Y. Food colors for desserts, candies, cakes, etc. No. 154,243; Apr. 11.
- Hansen's, Chr., Laboratory, Inc., Little Falls, N. Y. Butter and cheese colors and rennet extract. No. 154,244; Apr. 11.
- Hansen's, Chr., Laboratory, Inc., Little Falls, N. Y. Buttermilk tablets. No. 154,513; Apr. 18.
- Hansen's, Chr., Laboratory, Inc., Little Falls, N. Y. Preparation for coagulating or curdling milk. No. 156,854; July 13.
- Hanson, Arthur C., Chicago, Ill. Antiseptic powder for cuts, sores, etc. No. 152,190; Feb. 21.
- Hanson Manufacturing Co., Detroit, Mich. Medical preparation for asthma, coughs, and colds. No. 150,396; Jan. 3.
- Hanson Manufacturing Co., Topeka, Kans. Sandwich fillings. No. 161,948; Nov. 28.
- Happiwork, New York, N. Y. Kindergarten cut-outs for children. No. 151,160; Jan. 24.
- Happiwork, Branchville, Conn. Illustrated boxes for children for educational and amusement purposes. No. 161,949; Nov. 28.
- Harbison-Walker Refractories Company, Pittsburgh, Pa. Refractory cement. No. 154,043; Apr. 4.
- Harbison-Walker Refractories Company, Pittsburgh, Pa. Refractory cement. No. 160,206; Oct. 17.
- Hardeman, J. T., Hat Co., Seattle, Wash. Hats and caps for men. No. 151,161; Jan. 24.
- Hardeman-King Co., McAlester, Okla. Stock and poultry feeds, corn meal, wheat and rye flour. No. 161,496; Nov. 14.
- Harden, Harry, trading as The Famous Manufacturing Company, London, Ohio. Liquid preparation for certain uses. No. 157,972; Aug. 22.
- Harding, Arthur S., Boston, Mass. Oil cans. No. 154,287; Apr. 11.
- Hardinge Company, New York, N. Y. Ball and pebble mills. No. 155,153; May 16.
- Hardinge Company, New York, N. Y. Iron and steel used for lining plates for ball and pebble mills. No. 159,368; Sept. 26.
- Hardman, Cecilia, San Francisco, Calif. Dice. No. 162,773; Dec. 26.
- Hardright Company, The, Belleville, N. J. Lather brushes. No. 152,420; Feb. 28.
- Hardware Tire Corporation, Rutherford, N. J. Rubber pneumatic tires. No. 159,623; Sept. 26.
- Hardwick & Magee Company, Philadelphia, Pa. Chenille carpets. No. 156,286; June 20.
- Hardwood & Parquetry Floor Company, The. (See Mitchell, Harvey G.)
- Hardy, F. A., & Company, Chicago, Ill. Eyeglass frames and mountings. No. 152,594; Feb. 28.
- Hardy, F. A., & Company, Chicago, Ill. Ophthalmometers. No. 152,595; Feb. 28.
- Hardy, F. A., & Company, Chicago, Ill. One-piece eyeglass mountings. No. 152,596; Feb. 28.
- Hardy, F. A., & Company, Chicago, Ill. Eyeglass frames and mountings. No. 154,288; Apr. 11.
- Hardy, F. A., & Company, Chicago, Ill. Eyeglass bridges, temple frames, and mountings. No. 154,289; Apr. 11.
- Hardy, F. A., & Company, Chicago, Ill. Finger-piece eyeglass mountings. No. 154,961; May 16.
- Hardy, F. A., & Company, Chicago, Ill. Eyeglass bridges, temple frames, and mountings. No. 155,975; June 13.
- Hardy, F. A., & Company, Chicago, Ill. Finger-piece eyeglass mountings. No. 157,094; July 25.
- Hardy, F. A., & Company, Chicago, Ill. Eyeglass bridges, temple frames, and mountings. No. 162,772; Dec. 26.
- Hardy, Willoughby D., New York, N. Y. Shoulder and body brace. No. 153,460; Mar. 21.
- Hargest, Archibald T., Middletown, N. Y. Preparations for certain purposes. No. 156,285; June 20.
- Hargey, George L., Pottsville, Pa. Plumbers' tables and vise supports. No. 157,095; July 25.
- Harker, C. R., Stagg & Morgan, Limited, doing business as Falso Works, London, England. Skin cream. No. 157,973; Aug. 22.
- Harkert Cigar Co., Davenport, Iowa. Cigars. No. 151,031; Jan. 10.
- Harley-Davidson Motor Co., Milwaukee, Wis. Tools and parts of internal-combustion engines and machinery. No. 153,930; Mar. 28.
- Harley-Davidson Motor Co., Milwaukee, Wis. Piston rings, tire covers, rubber and fabric patches. No. 154,442; Apr. 11.
- Harley-Davidson Motor Co., Milwaukee, Wis. Tire talc. No. 161,697; Nov. 14.
- Harley, E. C., Company, Dayton, Ohio. Canned goods, molasses, tea, spices, etc. No. 152,597; Feb. 28.
- Harley, E. C., Company, The, Dayton, Ohio. Canned fruits and vegetables, tea, etc. No. 152,813; Mar. 7.

Alphabetical list of registrants of trade-marks—Continued.

- Harley, E. C., Company, The, Dayton, Ohio. Canned fruits, vegetables, and fish, teas. No. 156,287; June 20.
- Harraden, Cora I., Schenectady, N. Y. Candy. No. 156,681; July 11.
- Harrell Drug Co., (Inc.), Selma, Ala. Vitamine preparation for use as general tonic. No. 157,974; Aug. 22.
- Harrer, Edith E., Canandaigua, N. Y. Ice-cream. No. 151,793; Feb. 14.
- Harriet Hubbard Ayer, New York, N. Y. Toilet soap. No. 152,675; Mar. 7.
- Harris, A. W., Oil Co., Providence, R. I. Lubricating oils and greases. No. 153,376; Mar. 14.
- Harris, A. W., Oil Company, Providence, R. I. Lubricating oils and greases. No. 154,962; May 16.
- Harris, Clarence E., Tiburon, Calif. Auto top and seat dressing. No. 155,438; May 30.
- Harris, Meyer, doing business as Zoodack Manufacturing Co., Aiken, S. C. Salve for piles, burns, sore throat, etc. No. 153,451; Sept. 5.
- Harris, R., & Co., Washington, D. C. Pearls. No. 152,814; Mar. 7.
- Harris, Moses H., New York, N. Y. Eyeglasses and spectacles for athletic purposes. No. 158,229; Aug. 29.
- Harris-Stephenson, De Ridder, La. Electrolyte compound. No. 158,230; Aug. 29.
- Harris Suspender Company, New York, N. Y. Garters. No. 154,563; Apr. 18.
- Harris, William, Cambridge, Ohio. Rolling pins. No. 153,196; Mar. 14.
- Harris & Cox, Lamar, Colo. Certain adhesive. No. 153,195; Mar. 14.
- Harrison, Benjamin V., Co., Boston, Mass. Leathers. No. 159,894; Oct. 10.
- Harrison, William H., New York, N. Y. Rubbing liniment for treatment of sprains and soreness of muscles. No. 155,976; June 13.
- Harrow-Taylor Butter Co., Kansas City, Mo. Oleomargarine. No. 152,070; Feb. 14.
- Hart Bros., New York, N. Y. Hosiery. No. 154,564; Apr. 18.
- Hart and Crouse Co. (See Hart, H. Gilbert & Co., assignors.)
- Hart, Florida J., Fort Wayne, Ind. Preparation for treatment of diseases peculiar to females. No. 150,397; Jan. 3.
- Hart, Hubert C., doing business as The Celery Chewing Gum Co. and Celery Pepsin Gum Co., Unionville, Conn. Chewing gum. No. 160,096; Oct. 10.
- Hart, Leo, Inc., New York, N. Y. Shoes made wholly or in part of leather. No. 156,128; June 13.
- Hart, H. Gilbert & Co., Utica, N. Y., assignor to Hart and Grouse Co. Heating furnaces. No. 20,363; renewed Nov. 10, 1921.
- Hart & Hegeman Manufacturing Company, The, Hartford, Conn. Electrical switches and pull sockets. Nos. 161,497-8; Nov. 14.
- Hart-Shaw-Miller Drug Company, Adrian, Mich. Blood purifier and cleanser and system builder. No. 157,341; Aug. 1.
- Hart-Shaw-Miller Drug Company, Adrian, Mich. Blood purifier and cleanser and system builder. No. 157,516; Aug. 8.
- Harter Mfg. Company, Chicago, Ill. Electric-lamp sockets, lamp cover sockets, and plugs. No. 158,452; Sept. 5.
- Hartman, Milton, Detroit, Mich. Pamphlets, circulars, etc. No. 151,794; Feb. 14.
- Hartman, Milton, Detroit, Mich. Combined listing and mailing sheets. No. 155,239; May 23.
- Hartman Specialty Company, Philadelphia, Pa. General medicinal tonic. No. 155,331; May 23.
- Hartmann Food Product Co. Inc., The, New York, N. Y. Almond paste. No. 158,698; Sept. 12.
- Hartmann, Thomas W., Philadelphia, Pa. Vehicle springs. No. 151,795; Feb. 14.
- Hartmann Trunk Co., Racine, Wis. Trunks. No. 151,328; Jan. 31.
- Hartmann Trunk Company, Racine, Wis. Trunks. No. 161,950; Nov. 28.
- Hartofelis, Nicles, Manchester, N. H. Face cream. No. 152,191; Feb. 21.
- Harvard Garment Company. (See Lanning, Frank W.)
- Harvey, Isaac F., Bradford, England. Textile piece goods. No. 157,678; Aug. 15.
- Harward Manufacturing Company, The, St. Louis, Mo. Piston rings. No. 160,516; Oct. 24.
- Harwell, Frank, Atlanta, Ga. Nonalcoholic, maltless beverage sold as a soft drink. No. 158,159; Aug. 22.
- Hasbrouck, Ernest W., Boston, Mass. Furniture polish. No. 162,259; Dec. 12.
- Hasbrouck, John E., doing business as Hasbrouck Laboratories, New York, N. Y. Preparation for removing dirt and stains from the hands, etc. No. 157,679; Aug. 15.
- Hasbrouck Laboratories. (See Hasbrouck, John E.)
- Hasden, Marjorie J., Chicago, Ill. Manicure oil and nail polish. No. 155,439; May 30.
- Hasel, R., Cigar Co., Richmond Hill, N. Y. Cigars. No. 160,517; Oct. 24.
- Haskins Bros. & Company, Sioux City, Iowa, and Omaha, Nebr. Toilet soap. No. 157,680; Aug. 15.
- Haskins, Frances M., New York, N. Y. Baby exercisers. No. 154,963; May 16.
- Haslam, Lewis, assignor to The Cellular Clothing Company, Limited, London, England. Open or net work fabric for wearing apparel. No. 20,152; renewed Sept. 22, 1921.
- Hassinger, Egon, Barcelona, Spain. Carbon paper. No. 151,503; Feb. 7.
- Hassinger, Egon, Barcelona, Spain. Rubber erasers. No. 152,815; Mar. 7.
- Hassinger, Egon, Barcelona, Spain. Steel pens, lead pencils, rubber erasers. No. 154,964; May 16.
- Hassinger, Egon, Barcelona, Spain. Carbon paper. No. 155,440; May 30.
- Hassler, Robert H., Inc., Indianapolis, Ind. Shock absorbers for Ford cars. No. 159,624; Sept. 26.
- Hasslinger, Walter, Baltimore, Md. Fresh and cooked crabs, clams, shrimp, and oysters, etc. No. 156,571; June 27.
- Hastings, G. T., Company, The. (See Hastings, George T.)
- Hastings, George T., doing business as The G. T. Hastings Company and The Snowite Laboratories, New York, N. Y. Certain toilet preparations. Nos. 160,879-80; Oct. 31.
- Hatchet, Mary, & Jenkins, Thomasville, Ga. Preparation used in the treatment of indigestion. No. 157,261; July 25.
- Hately Brothers Company, Chicago, Ill. Hams, bacon, and lard. No. 158,975; Sept. 19.
- Hatfield & Bell, Brooklyn, N. Y. Ginger ale, lemon soda, and sarsaparilla. No. 160,518; Oct. 24.
- Hatfield & Bell, Brooklyn, N. Y. Nonalcoholic, maltless beverages sold as soft drinks. No. 160,519; Oct. 24.
- Hatfield Electric Company, Indianapolis, Ind. Periodical publications. No. 162,512; Dec. 19.
- Hathaway, John A., doing business as Alklitone Tooth Paste Company. Tooth paste. No. 161,156; Nov. 7.
- Hathaway, Wellington C., doing business as Mississippi Bottling Co., Hattiesburg, Miss. Nonalcoholic, noncereal, maltless beverage sold as a soft drink. No. 158,578; Sept. 5.
- Hatmaker & Place, Canaan, Conn. Hydrated lime, Portland cement, and fire clay. No. 156,683; July 11.
- Hauck, Peter, Jr., East Orange, N. J. Sirups for food purposes—namely, bread and cake making. No. 154,565; Apr. 18.
- Haug & Co., Inc., New York, N. Y. Hydrogenated vegetable oil. No. 154,566; Apr. 18.
- Haupt, John J., Pittsburgh, Pa. Malt extract. No. 155,240; May 23.
- Hauser & Weil, New York, N. Y. Blank telephone register. No. 152,598; Feb. 28.
- Hauser & Weil, New York, N. Y. Writing cases. No. 153,461; Mar. 21.
- Hauser & Weil, New York, N. Y. Writing cases and tablets, writing sets, and telephone registers. No. 154,196; Apr. 4.
- Hauser & Weil, New York, N. Y. Writing cases and tablets, writing sets, and telephone registers. No. 156,288; June 20.
- Hauser & Weil, New York, N. Y. Certain bags, boxes, and cases. No. 156,525; June 27.
- Hauser & Weil, New York, N. Y. Belts for men, women, and children. No. 157,262; July 25.
- Hauser & Weil, New York, N. Y. Toilet cases and rolls, week-end and overnight bags, etc. No. 158,976; Sept. 19.
- Hauser & Weil, New York, N. Y. Belts for men, women, and children. No. 161,157; Nov. 7.
- Hauser & Weil, New York, N. Y. Glove and veil cases, photo cases, sewing boxes, sewing and jewelry cases. No. 162,964; Dec. 26.
- Havana Cigar and Tobacco Factories Limited, New York, N. Y. Cigars. Nos. 150,835-7; Jan. 10.
- Havana Commercial Company, New York, N. Y. Cigars. No. 150,834; Jan. 10.
- Havasmile Company, The, Boston, Mass. Candy. Nos. 152,811-2; Mar. 7.
- Havens, Clara V., New York, N. Y. Washable dolls, toy animals, and doll clothes. No. 155,441; May 30.
- Havens, William H., Gary, Ind. Medicine for treatment of cancer. No. 156,289; June 20.
- Havisey Company, San Francisco, Calif. Waterproof cloth. No. 159,895; Oct. 10.
- Hawaiian Pineapple Company, Limited, San Francisco, Calif., and Honolulu, Territory of Hawaii. Canned pineapple. Nos. 151,797-800; Feb. 14.
- Hawaiian Pineapple Company, Limited, San Francisco, Calif. Canned pineapple. No. 160,520; Oct. 24.
- Hawk, Henry C., Battle Creek, Mich., assignor to Tingles, Incorporated, New York, N. Y. Candied cereal. No. 154,567; Apr. 18.
- Hawkeye Cleanser Co., Lost Nation, Iowa. Cleanser in soap form. No. 155,442; May 30.
- Hawkins, Edwin C., Paducah, Ky. Wheat flour. No. 152,816; Mar. 7.
- Hawkins Mortgage Co., Portland, Ind. Monthly publication. No. 158,977; Sept. 19.
- Hawley & Hoops, New York, N. Y. Candy. No. 151,801; Feb. 14.
- Hawley & Hoops, New York, N. Y. Candy. No. 162,158; Dec. 5.
- Hay, H. H. Sons, Portland, Me. Fruit sirup used as a food drink or food flavor. No. 159,625; Sept. 26.

- Hay, H. H., Sons, Portland, Me. Fruit sirup used as a food drink or food flavor. Nos. 162,513-14; Dec. 19.
- Hayden & Derby Mfg. Company, The, New York, N. Y., assignor to Manning, Maxwell & Moore, Inc. Stationary and locomotive injectors and ejectors. No. 21,221; renewed May 31, 1922.
- Hayem, J., and Cie., Paris, France. Collars, cuffs, cravats, knitted and textile underwear for men and women, outer shirts for men. No. 158,453; Sept. 5.
- Hayes Duster & Brush Co., New York, N. Y. Feather dusters. No. 151,162; Jan. 24.
- Hayes, James A., New York, N. Y. Dolls. No. 159,369; Sept. 26.
- Hayes Manufacturing Co., Paterson, N. J. Safety valves. No. 152,599; Feb. 28.
- Hayes Manufacturing Co., Paterson, N. J. Copper range boilers. No. 153,592; Mar. 21.
- Hayes and Meserole Mfg. Co., Milford, Conn. Hair wavers. No. 162,774; Dec. 26.
- Hayes Shock Absorber Co., Minneapolis, Minn. Shock absorbers (automobile). No. 159,188; Sept. 19.
- Hayfema Company. (See Baird, Wm. W.)
- Hayn, William F., doing business as Vi-Tanika Pharmacal Company, Dayton, Ohio. Pharmaceutical preparations. No. 161,158; Nov. 7.
- Haynes-Lansberg Manufacturing Co., St. Louis, Mo. Coal and wood heating and cooking stoves, ranges, and heating furnaces. No. 154,792; May 9.
- Hays-Raden Company, Philadelphia, Pa. Cleanser for cleaning clothes, silverware, dishes, cooking utensils, woodwork, etc. No. 159,370; Sept. 26.
- Hazel Net Company, The, New York, N. Y. Hair nets. Nos. 154,965-6; May 16.
- Hazleton Baking Co., Hazleton, Pa. Bread and rolls. No. 155,443; May 30.
- Heal-O Products Co., Pittsburgh, Pa. Salve for boils, burns, etc. No. 153,454; Sept. 5.
- Hearn, James A., & Son, Inc., New York, N. Y. Nainsooks, poplins, long cloth, and cambrics in the piece. No. 156,526; June 27.
- Hearn, James A., & Son Inc., New York, N. Y. Muslin piece goods, sheets, and pillowcases. No. 157,811; Aug. 15.
- Heath, Mary, Company, The, St. Louis, Mo. Marshmallow and chocolate creams. No. 160,578; Oct. 24.
- Heath Radio and Electric Mfg. Co., Newark, N. J. Radio apparatus. No. 162,260; Dec. 12.
- Heating and Ventilating Magazine Co., New York, N. Y. Monthly magazine. No. 162,261; Dec. 12.
- Hebe Company, The, Chicago, Ill., and Seattle, Wash. Compound of evaporated skimmed milk and vegetable fat. No. 152,817; Mar. 7.
- Heberlein & Cie. A. G., Wattwil, Switzerland. Threads and yarns. No. 154,044; Apr. 4.
- Heberlein & Co. A. G., Wattwil, Switzerland. Certain piece goods. No. 157,517; Aug. 8.
- Heberlein & Co. A. G., Wattwil and Rietwies, Switzerland. Cotton fabrics in pieces. No. 158,699; Sept. 12.
- Heck, Adolph M., Los Angeles, Calif. Inked ribbons and carbon sheets. No. 151,802; Feb. 14.
- Hecker-Jones-Jewell Milling Company, New York, N. Y. Flour, corn meal flakes, rice oatmeal, etc. No. 151,803; Feb. 14.
- Hecker-Jones-Jewell Milling Company, New York, N. Y. Wheat flour. No. 153,593; Mar. 21.
- Hecker-Jones-Jewell Milling Company, New York, N. Y. Prepared flour. No. 159,897; Oct. 10.
- Heckman-Miller Co., Washington, D. C. Cider and non-alcoholic maltless beverages. No. 154,045; Apr. 4.
- Heddons, James, Sons, Dowagiac, Mich. Fish bait. No. 154,046; Apr. 4.
- Hedstrom-Schenck Coal Co., Chicago, Ill. Anthracite and bituminous coals. No. 159,898; Oct. 10.
- Heebner, Ernest L., New York, N. Y., and Altoona, Wash. Canned salmon and tuna. No. 155,977; June 13.
- Heerling, William, New York, N. Y. Chairs and tables for general use. No. 158,978; Sept. 19.
- Heger Bird Company, St. Paul, Minn. Fish food. No. 152,421; Feb. 28.
- Heger Bird Co., The, St. Paul, Minn. Bird seeds and foods. No. 152,422; Feb. 28.
- Hegewisch Chemical Works, Chicago, Ill. Medicinal fattening compound for animals. No. 156,290; June 20.
- Heicklen, Hyman, Philadelphia, Pa. Leather shoes. No. 154,753; Apr. 18.
- Heldbrink Company, The, Minneapolis, Minn. Dental and surgical supplies. No. 154,290; Apr. 11.
- Heidelberg, Max, Neuilly-sur-Seine, (Seine.) France. Certain toilet preparations. No. 155,332; May 23.
- Heidelberg Confectionery Co., Philadelphia, Pa. Chocolates. No. 156,875; July 18.
- Heidelberg Confectionery Co., Philadelphia, Pa. Candies. No. 157,681; Aug. 15.
- Heidell & Trow Company, New York, N. Y. Jewelry, not including watches. No. 162,262; Dec. 12.
- Heidgerd, D & H, New York, N. Y. Pongee silk, linen and cotton ducks, silk vestings, etc. No. 152,424; Feb. 28.
- Helm, Henry E., Portland, Oreg. Hot-water equalizers. No. 159,371; Sept. 26.
- Henckels, J. A., New York, N. Y. Nail files. No. 162,965; Dec. 26.
- Heine Safety Boiler Co., St. Louis, Mo. Water-tube boilers. Nos. 151,163-5; Jan. 24.
- Heine Safety Boiler Co., St. Louis, Mo. Water-tube boilers. No. 153,197; Mar. 14.
- Heinisch, R., Sons Works. (See Wiss, J., & Sons Co.)
- Heinrich Chemical Co., Minneapolis, Minn. Perfumes, toilet waters, toilet creams, tissue tonics, etc. No. 151,032; Jan. 10.
- Heinrichshofen, Robert, St. Louis, Mo. Nonalcoholic maltless extracts, colors and flavors for soft drinks. No. 156,876; July 18.
- Heirloom Aluminum Corporation. (See Metal and Alloy Specialties Company.)
- Heiser Co., The, Cleveland, Ohio. Photographic plates and films. No. 150,838; Jan. 10.
- Heiss, Melvin W., New York, N. Y. Men's, women's, and children's handkerchiefs. No. 150,398; Jan. 3.
- Helt Miller Lau Co., Fort Wayne, Ind. Candy. No. 151,804; Feb. 14.
- Heit-Miller-Lau Co., Fort Wayne, Ind. Candies. Nos. 154,568-9; Apr. 18.
- Helback, Leo. A., Portland, Oreg. Cigars. No. 153,745; Mar. 28.
- Held, Max, Inc., New York, N. Y. Sport shirts for women. No. 161,159; Nov. 7.
- Heller, B., & Co., Chicago, Ill. Metal polish. No. 155,704; June 6.
- Heller Brothers Company, Newark, N. J. Files and rasps. No. 161,781; Nov. 21.
- Heller, R. C., Company, The, Baltimore, Md. Feather pillows. No. 151,805; Feb. 14.
- Heller & Merz Company, The, Newark, N. J., and New York, N. Y. Direct color dyes. No. 158,579; Sept. 5.
- Heller, Morris, New York, N. Y. Salad oil—viz, cottonseed oil flavored with olive oil. Nos. 155,705-6; June 6.
- Hellman & Blotta, New York, N. Y. Dresses. No. 154,570; Apr. 18.
- Helm, Martha A., New York, N. Y. Cleaning and polishing compound for certain named uses. No. 152,818; Mar. 7.
- Helmholz Mitten Company, Cudahy, Wis. Gloves and mittens. No. 160,207; Oct. 17.
- Hemco Electric Manufacturing Company Inc., New York, N. Y. Electric fixtures. Nos. 156,684-5; July 11.
- Henckels, J. A., New York, N. Y. Razors. No. 156,527; June 27.
- Henckels, J. A., assignor to Gref & Schmidt, Inc., New York, N. Y. Cutlery. No. 159,372; Sept. 26.
- Hendershot, John T., Newton, N. J. Pills to aid digestion. No. 154,047; Apr. 4.
- Hendershot, John T., Newton, N. J. Corn plasters. No. 154,291; Apr. 11.
- Henderson, Peter, & Co., New York, N. Y. Annual catalogues. No. 155,241; May 23.
- Henderson, Peter, & Co., New York, N. Y. Agricultural and horticultural seeds. No. 155,978; June 13.
- Henderson, Robert H., Ampere, N. J. Pipe-bending tools. No. 154,967; May 16.
- Henderson, Thomas A., Merchantville, N. J. Cigars. No. 160,521; Oct. 24.
- Henderson, Wm., & Co., Philadelphia, Pa. Textile rugs. No. 155,707; June 6.
- Hender Creamery Company, The, Baltimore, Md. Ice cream. No. 156,628; June 27.
- Hender Creamery Company, The, Baltimore, Md. Ice cream. Nos. 156,686-7; July 11.
- Hendrickson, Frank L., Maysville, Ky. Nonalcoholic, maltless beverage. No. 154,968; May 16.
- Heneph Co., Inc., The, Kingston, N. Y. Certain preparations or medicines. No. 155,708; June 6.
- Hennegan, Eva N., Cincinnati, Ohio. Fortune-telling game boards. No. 153,198; Mar. 14.
- Hennessy, Roland B., doing business as Radio World Company, New York, N. Y. Weekly publication. No. 162,263; Dec. 12.
- Henning Boot Shop, Inc., New York, N. Y. Shoes. No. 154,754; Apr. 18.
- Henning, V. & Sons, Brooklyn, N. Y. Certain nonferrous metals. No. 157,518; Aug. 8.
- Henning Wennersten Incorporated, Chicago, Ill. Malt extracts. No. 161,951; Nov. 28.
- Henningsen Produce Co., Butte, Mont. Butter, eggs, ice-cream, cheese, etc. No. 151,806; Feb. 14.
- Henry-Brown Co. Inc., Glendale, Calif. Beverage sold as soft drink and sirups used in preparation of same and a concentrate. No. 161,160; Nov. 7.
- Henry-Brown Company, Inc., Glendale, Calif. Non-cereal maltless beverages sold as soft drinks and sirups used in preparation of same. No. 161,161; Nov. 7.
- Henry-Brown Company, Inc., Glendale, Calif. Nonintoxicating beverage. No. 161,882; Nov. 21.
- Henry Glass & Co., New York, N. Y. Cotton voiles in the piece. No. 152,789; Mar. 7.
- Henry Tetlow Company. (See Tetlow, Ida J.)
- Hepburn, Gale and Ross, Limited, assignor to Barrow, Hepburn & Gale Ltd., London, England. Trunks, hat boxes, and certain bags and cases. No. 153,199; Mar. 14.
- Heppenstall Forge and Knife Company, Pittsburgh, Pa. Steel for use in the manufacture of die blocks, tool-steel forgings, etc. No. 159,373; Sept. 26.

Alphabetical list of registrants of trade-marks—Continued.

- Heppes-Nelson Roofing Company, The, Chicago, Ill. Prepared roofing. No. 154,048; Apr. 4.
- Heppes-Nelson Roofing Company, The, Chicago, Ill., assignor to The Richardson Company, Lockland, Ohio. Certain construction materials. No. 155,979; June 13.
- Heppes-Nelson Roofing Company, The, Chicago, Ill. Weather and water proof coatings in liquid and paintlike form. No. 153,979; Sept. 19.
- Herbert, George H., St. Petersburg, Fla. Liquid automobile and furniture polish. No. 152,600; Feb. 28.
- Herbert Packing Co., San Jose, Calif. Canned fruits and vegetables. No. 160,522; Oct. 24.
- Herbert Packing Co. Inc., San Jose, Calif. Canned fruits and vegetables. No. 162,515; Dec. 19.
- Herbicide Chemical Laboratories, Los Angeles, Calif. Spray for trees, plants, shrubs, and the like. No. 161,162; Nov. 7.
- Herbst, Abram W., New York, N. Y. Perfume. Nos. 155,709-11; June 6.
- Herbst, Abram W., New York, N. Y. Perfume. Nos. 156,291-2; June 20.
- Hercules Petroleum Company, Dallas, Tex. Gasoline. No. 154,969; May 16.
- Hercules Wood Heel Fastener Co., The, New York and Brooklyn, N. Y. Wooden-heel fasteners for shoes. No. 159,375; Sept. 26.
- Herendeen Milling Company, Chicago, Ill. Bread. No. 159,899; Oct. 10.
- Herman, Fred, Mfg. Co. (See Herman, Frederick.)
- Herman, Frederick, doing business as Fred Herman Mfg. Co., Seattle, Wash. Misses' outer shirts. No. 158,700; Sept. 12.
- Herman, John C., & Company, Harrisburg, Pa. Cigars. No. 150,841; Jan. 10.
- Herman, John C., & Co., Harrisburg, Pa. Cigars. No. 157,975; Aug. 22.
- Herman, Joseph, New York, N. Y. Perfumes and toilet water. No. 157,519; Aug. 8.
- Herpich, John L., Columbus, Ohio. General tonic laxative. No. 153,747; Mar. 28.
- Herrgott, Leon, Paris, France. Perfumery. No. 157,342; Aug. 1.
- Herrgott, Leon, Paris, France. Perfumery. No. 157,350; Aug. 1.
- Herrman, Adolph S., New York, N. Y. Silk, cotton, linen, wool, ramie textiles, and mixtures. No. 154,292; Apr. 11.
- Herrmann, Geo., Company, San Francisco, Calif. Malt sirup for food purposes. No. 154,571; Apr. 13.
- Herschel, R., Manufacturing Co., Peoria, Ill. Certain machinery and tools. No. 162,010; Nov. 28.
- Hershey Chocolate Company, The, Hershey, Pa. Chocolate, sweet chocolate, and milk chocolate. No. 156,688; July 11.
- Hershey Manufacturing Company, Denver, Colo. Locks for automobiles. No. 158,231; Aug. 29.
- Hershey, S. W., Flour Mills, The. (See Hershey, Samuel W.)
- Hershey, Samuel W., doing business as S. W. Hershey Flour Mills, York, Pa. Wheat flour. No. 162,639; Dec. 19.
- Herstein, James, Los Angeles, Calif. Yeast compound for use as a general tonic. No. 161,163; Nov. 7.
- Hertzberg, Williams, New York, N. Y. Certain brushes, mops, and dusters. No. 155,335; May 23.
- Hervey, Chilion L., Montreal, Canada. Bolts and nuts. No. 150,668; Jan. 3.
- Herz, Alexander, New York, N. Y. Merchandise envelopes. No. 151,329; Jan. 31.
- Herz, Alexander, New York, N. Y. Merchandise envelopes. No. 154,049; Apr. 4.
- Herzfeld-Phillipson Company, The, Milwaukee, Wis. Men's and boys' dress and negligee shirts. No. 157,096; July 25.
- Herzfeld-Phillipson Company, The, Milwaukee, Wis. Leather shoes. No. 161,499; Nov. 14.
- Herzfeld-Phillipson Company, The, doing business as Milwaukee Boston Store, Milwaukee, Wis. Razor strops. No. 162,264; Dec. 12.
- Herzig, Siegfried M., Los Angeles, Calif. Motion-picture films. No. 152,425; Feb. 28.
- Herzog, Albert, New York, N. Y. Silks, velvets, satins, plushes, cords, and ribbons. No. 20,717; renewed Feb. 16, 1922.
- Herzog, Albert, New York, N. Y. Textile shoe fabrics, Certain. No. 155,980; June 13.
- Herzog & Kramer, New York, N. Y. Bath robes. No. 158,981; Sept. 19.
- Herzog, Moses, New York, N. Y. Hair nets. No. 156,293; June 20.
- Heslar Radio Corporation, Indianapolis, Ind. Radio equipment. No. 162,265; Dec. 12.
- Hespe, Alfred T., New York, N. Y. Thermometers, barometers, etc. No. 154,293; Apr. 11.
- Hess, Elam G., Manheim, Pa. Thin-shelled pecan nuts. No. 154,572; Apr. 18.
- Hess, Goldsmith & Co., New York, N. Y. All-silk piece goods. No. 152,820; Mar. 7.
- Hess, Goldsmith & Co. Inc., New York, N. Y. Silk, satin, and crepe piece goods. No. 161,500; Nov. 14.
- Hess and Hopkins Leather Company, The, Rockford, Ill. Leather. No. 156,129; June 13.
- Hess and Hopkins Leather Company, The, Rockford, Ill. Packings, gaskets, and washers of leather. No. 157,263; July 25.
- Hess and Hopkins Leather Company, The, Rockford, Ill. Harness, saddles, and horse collars. No. 159,189; Sept. 19.
- Hess, Horace H., Pine Grove, Pa. Textile-fabric underwear. No. 150,842; Jan. 10.
- Hess, Horace H., Pine Grove, Pa. Textile-fabric underwear. No. 161,164; Nov. 7.
- Hess, Jack W., Clinton, Wis. Toy car. No. 153,748; Mar. 28.
- Hess Warming & Ventilating Company, Chicago, Ill. Medicine cabinets. No. 157,682; Aug. 15.
- Hesseberg, Magnus, Inc., Richmond, Va. Sole and harness leather. No. 151,166; Jan. 24.
- Hetta Packing Co., Inc., Sulzer, Alaska. Canned salmon. No. 156,294; June 20.
- Heuser, Anna, Paterson, N. J. Women's closed drawers. No. 161,165; Nov. 7.
- Hewes & Potter, Boston, Mass. Bow neckties. No. 154,573; Apr. 18.
- Hewes & Potter, Boston, Mass. Bow neckties. No. 156,878; July 18.
- Hewett, Mary E., San Francisco, Calif. Misses' and children's outer garments, rompers, and dresses. No. 150,844; Jan. 10.
- Hewitt Bros. Soap Company, The, Dayton, Ohio. Laundry and clothes-washing preparation. No. 150,843; Jan. 10.
- Hewlett Bros. Company, Salt Lake City, Utah. Coffee. No. 159,376; Sept. 26.
- Hezel Milling Company, East St. Louis, Ill. Self-rising flour. No. 161,501; Nov. 14.
- Hiaiwatha Lumber Co., Oklahoma, Okla. Wooden posts, ties, etc. No. 155,981; June 13.
- Hibben, Hollweg & Co., Indianapolis, Ind. Linen piece goods. No. 161,782; Nov. 21.
- Hickok, C. F., Co., The, Sidney, Ohio. Candy. No. 152,821; Mar. 7.
- Hickok Manufacturing Company, Inc., Rochester, N. Y. Watch chains. No. 162,266; Dec. 12.
- Hicks Candy Kitchen. (See Hicks, William A.)
- Hicks-Hayward Company, El Paso, Tex. Certain articles of clothing. No. 156,295; June 20.
- Hicks, Herma L., Rocky Mount, N. C. Medicinal compound used in the treatment of neuralgia, sciatica, pneumonia, etc. No. 155,334; May 23.
- Hicks, William A., doing business as Hicks Candy Kitchen, Chicago, Ill. Candy. No. 160,523; Oct. 24.
- Hide, Leather & Belting Co., Indianapolis, Ind. Leather and fabric belting for automobile fans and power transmission. No. 160,624; Oct. 24.
- Hieronimus, J. A., & Sons, San Francisco, Calif. Cereal malt beverage. No. 154,970; May 16.
- Higginbotham-Bailey-Logan Company, Dallas, Tex., and New York, N. Y. Work clothes in the nature of overalls, pants, and shirts. No. 157,097; July 25.
- Higginbotham, Samuel H., Los Angeles, Calif. Trusses. No. 162,435; Dec. 12.
- Higgins, Mary E., Chicago, Ill. Certain dental appliances. No. 153,462; Mar. 21.
- Highland Manufacturing Company, Holyoke, Mass. Writing, typewriting, and printing papers, papeteries, cards, tablets, and pads. Nos. 161,783-4; Nov. 21.
- High Tension Supplies Company, Wilmington, Del. Resistors, lightning arresters, and fuses for electrical purposes. No. 162,267; Dec. 12.
- High Test Malt Extract Co., Chicago, Ill. Malt extract for food purposes. No. 157,417; Aug. 1.
- Hijos de Ybarra, Seville, Spain. Olive oil. No. 153,696; Mar. 28.
- Hilander, K. Paul, Maynard, Mass. Maltless cereal and noncereal beverages. No. 154,050; Apr. 4.
- Hilgert Shoe Corporation, New York, N. Y. Shoes. No. 154,755; Apr. 18.
- Hill, Clarke & Co. of Chicago, Chicago, Ill. Metal-working machinery and tools and parts thereof. No. 153,749; Mar. 28.
- Hill-Curtis Co., Kalamazoo, Mich. Sawing and trimming machines. No. 161,785; Nov. 21.
- Hill, Nathan S., Boston, Mass. Cement for repairing broken china, glass, etc. No. 160,208; Oct. 17.
- Hill, R. D., Company, Los Angeles, Calif. Medicated shampoo liquid compositions, balsams, and ointments for eczema. No. 161,166; Nov. 7.
- Hill, Robert, Buffalo, N. Y. Nonalcoholic maltless beverages. No. 154,051; Apr. 4.
- Hill, Samuel J., Atlanta, Ga. Bedroom slippers made of fabric with soft-leather bottoms. No. 157,098; July 25.
- Hill Manufacturing Co., Lewiston, Me. Cotton piece goods—namely, twills. No. 156,296; June 20.
- Hill and La Cross Company, The, Cranston, R. I. Narrow braids, elastic braids, and shoe laces. No. 155,712; June 6.
- Hillierich & Bradsky Co. Inc., Louisville, Ky. Baseball bats. No. 152,426; Feb. 28.
- Hilles, Joseph M., Bridgeport, Pa. Medicine for blood poisoning or impoverished blood. No. 157,976; Aug. 22.
- Hilliard Clutch & Machinery Co., The, Elmira, N. Y. Flywheels and steel ring gears for automobiles, pistons, clutches, and shaft couplings. No. 160,097; Oct. 10.
- Hillman & Israel, New York, N. Y. Ladies' sweaters. No. 158,160; Aug. 22.

- Hills Brothers Company, The, New York, N. Y. Dates. No. 156,572; June 27.
- Hilton Collins Company, Louisville, Ky. Baseball bats. Nos. 150,845-6; Jan. 10.
- Hilton Collins Co. Incorporated, Louisville, Ky. Baseball bats. Nos. 151,167-8; Jan. 24.
- Hilton Collins Co. Incorporated, Louisville, Ky. Baseball bats. No. 151,321; Jan. 31.
- Hilton Collins Co. Incorporated, Louisville, Ky. Baseball bats. Nos. 153,701-2; Sept. 12.
- Hilton, George F., St. Augustine, Ill. Preparation for preventing corrosion of the terminals of storage batteries. No. 152,297; June 20.
- Hincher Manufacturing Company of Indiana, Washington, Ind. Trousers, skirt, coat, gown, and suit hangers. No. 157,099; July 25.
- Hinckley & Schmitt, Chicago, Ill. Drinking water, ginger ale, root beer, and sarsaparilla. No. 151,504; Feb. 7.
- Hindle, Charles F., New York, N. Y. String galvanometers and photographic recording and projecting apparatus for same. No. 150,847; Jan. 10.
- Hine, Efrid L., Winston-Salem, N. C. Boots, shoes, over-shoes, slippers, sandals, and hosiery. No. 154,574; Apr. 18.
- Hinkle, Fred E., Atlanta, Ga. Certain toilet preparations. No. 155,444; May 30.
- Hinmelein & Bailey, Philadelphia, Pa. Leather belting. No. 160,525; Oct. 24.
- Hipp, Didisheim Co., Inc., New York, N. Y. Watch bracelets. No. 155,445; May 30.
- Hires, Charles E., Company, The, Philadelphia, Pa. Water for use in electric storage batteries. No. 154,052; Apr. 4.
- Hirsch Bros. & Co., Inc., Louisville, Ky. Chowchow, pickles, catsup, salad dressing, etc. No. 152,071; Feb. 14.
- Hirsch Brothers Company, Chicago, Ill. Whip powder. No. 160,526; Oct. 24.
- Hirsch, Cal. & Sons Mercantile Co., St. Louis, Mo., and Los Angeles, Calif. Knapsacks. No. 151,330; Jan. 31.
- Hirsch, Hiram H., Philadelphia, Pa. Ready-mixed paints. No. 158,455; Sept. 5.
- Hirsch, Louis, Brooklyn, N. Y. Wool and silk knitting yarn. No. 153,750; Mar. 28.
- Hirschfeld, Leo, White Plains, N. Y. Candy. No. 162,268; Dec. 12.
- Hirschl & Bendheim, Washington, Mo. Tobacco-smoking pipes. No. 158,704; Sept. 12.
- Hirschman, W. F., Inc., Buffalo, N. Y. Ventilators. No. 154,053; Apr. 4.
- Hirshfield Skirt Co., St. Louis, Mo. Certain outing and sporting apparel. No. 158,703; Sept. 12.
- Hiscox Chemical Works, Patchogue, N. Y. Toilet lotion. No. 160,881; Oct. 31.
- Hispanic American Publishing Co. Inc., New York, N. Y. Daily publication. No. 155,242; May 23.
- Hiss, Edward A., Cleveland, Ohio. Laxative and medicinal preparation. No. 159,900; Oct. 10.
- Hitchcock, Frank, Cleveland, Ohio. Electric signal lamps for automobiles. No. 155,713; June 6.
- Hite, S. P., Company, Inc., Roanoke, Va. Medicinal preparations and toilet preparation. No. 150,899; Jan. 3.
- Hite, S. P., Company, Inc., Roanoke, Va. Preparation for certain named ailments. No. 150,400; Jan. 3.
- Hitt Fireworks Company, Inc., Seattle, Wash. Firecrackers. No. 157,100; July 25.
- Hoagland, Wm. W., D. D. S., San Francisco, Calif. Medicinal preparation. No. 150,848; Jan. 10.
- Hoague-Sprague Corp., Lynn, Mass. Collapsible cardboard hatboxes. No. 150,401; Jan. 3.
- Hobart Manufacturing Company, The, Troy, Ohio. Electrically-driven beating and mixing machines. No. 152,822; Mar. 7.
- Hoberg, John, Co., The, Green Bay, Wis. Toilet paper, paper napkins and towels, and wrapping paper. No. 154,971; May 16.
- Hobgen, Kate E., Baltimore, Md. Safety harness for infants. No. 161,366; Nov. 7.
- Hoboken White Lead & Color Works, Inc., Hoboken, N. J. Paints, combination white lead, paint enamels, artists' colors. No. 158,456; Sept. 5.
- Hoboken White Lead & Color Works, Inc., successor. (See Pfugl, Albert, & Co.)
- Hoch, Benjamin L., Brooklyn, N. Y. Antiseptic tooth-brush containers of cabinet form. No. 158,982; Sept. 19.
- Hochschild, Kohn & Company, Inc. Talking machines. No. 155,335; May 23.
- Hochschild, Kohn and Co. Inc., Baltimore, Md. Vacuum cleaning machines. No. 157,264; July 25.
- Hochschild, Kohn & Co., Baltimore, Md. Hair nets. No. 162,516; Dec. 19.
- Hockmeyer Bros., New York, N. Y. Cotton piece goods—viz, corduroy. No. 159,706; Oct. 3.
- Hockmeyer Bros., New York, N. Y. Corduroy and cotton piece goods. No. 160,777; Oct. 24.
- Hockmeyer Bros., New York, N. Y. Cotton piece goods. Nos. 162,517-18; Dec. 19.
- Hoddersen-Balling, Frederick E., Brooklyn, N. Y. Ham cookers. No. 162,084; Dec. 5.
- Hodge-Palk Corporation, San Francisco, Calif. Ladies' hats. No. 161,502; Nov. 14.
- Hodge, Mary E., Wenona, Ill. Aprons and dresses. No. 154,575; Apr. 18.
- Hodges, Emery C., Joliet, Ill. Preparations for water-proofing, preserving, and softening shoe leather. No. 155,446; May 30.
- Hodgman Rubber Company, Yonkers, N. Y. Overcoats. No. 154,576; Apr. 18.
- Hodgson, Aurora G., New York, N. Y. Powder puffs of wool yarn crocheted. No. 160,527; Oct. 24.
- Hoe Corporation, Poughkeepsie, N. Y. Folding pressing boards. No. 152,823; Mar. 7.
- Hoefer, Harry, Candy Co., San Francisco, Calif. Candy. No. 152,824; Mar. 7.
- Hoefer Ice Cream Company, Buffalo, N. Y. Ice cream. No. 154,793; May 9.
- Hoeft, John, Peoria, Ill. Furniture polish. No. 153,463; Dec. 21.
- Hoegen, J. & J. V., & Company, New York, N. Y. Marmalade. No. 158,705; Sept. 12.
- Hoerr-Adam Shoe Company, Belleville, Ill. Leather shoes. No. 152,027; Feb. 14.
- Hoey, John, & Co., San Francisco, Calif. Mattresses. No. 158,983; Sept. 19.
- Hoffa, Frederick, New York, N. Y. Optical lenses. No. 151,505; Feb. 7.
- Hoffman, C. E., Company, Dallas, Tex. Hair tonic. No. 156,298; June 20.
- Hoffman, C. E., Company, Dallas, Tex. Hair tonic. No. 156,299; June 20.
- Hoffman, F., & Sons, Inc., Newark, N. J. Beverages sold as soft drinks and sirups for making same. No. 157,265; July 25.
- Hoffman & Hauck, Inc., Woodhaven, N. Y. Olive oil, mayonnaise, maple sugar, honey, etc. No. 151,796; Feb. 14.
- Hoffman and Hauck, Inc., Woodhaven, N. Y. Honey, olive oil, peanut butter, fruit jam, etc. No. 156,300; June 20.
- Hoffman-Hayman Coffee Co., San Antonio, Tex. Coffee and tea. No. 157,101; July 25.
- Hoffman, Israel, New York, N. Y. Hair curlers and wavers. No. 153,464; Mar. 21.
- Hoffman, Norman, Milwaukee, Wis. Preparation for the treatment of asthma. No. 161,016; Oct. 31.
- Hoffman & Peterson, Priest River, Idaho. Foot powder. No. 155,714; June 6.
- Hoffman, Stephen R., Brooklyn, N. Y. Watches, dials, movements and parts thereof and watchcases. No. 156,595; July 4.
- Hoffmann-Hayman Coffee Co., San Antonio, Tex. Coffee. No. 160,778; Oct. 24.
- Hoffmann-La Roche Chemical Works, The, New York, N. Y. Medicinal preparation recommended as a non-narcotic, hypnotic, and analgesic. No. 160,209; Oct. 17.
- Hoffmanns, William M., Philadelphia, Pa. Rag rugs and carpets. No. 150,849; Jan. 10.
- Hofstra, Edward C., Company, The, Tulsa, Okla. Insecticides. No. 151,506; Feb. 7.
- Hofstra Manufacturing Company, Tulsa, Okla. Insecticides. No. 159,902; Oct. 10.
- Hogan, George F., and Ruben Blundell, Brooklyn, N. Y. Certain medicinal preparation. No. 153,465; Mar. 21.
- Hogan-Spencer-Whitley Company, Erie, Pa. Laundry washing machines. No. 151,507; Feb. 7.
- Hogue, Fred W., McGregor, Iowa. Liquid preparation for cleaning rugs, carpets, upholstery, etc. No. 162,519; Dec. 19.
- Hogue, Joseph V., New York, N. Y. Golf balls. No. 157,977; Aug. 22.
- Hohl, Percy, Preston, Idaho. Salve for certain named purpose. No. 150,402; Jan. 3.
- Hohlfeld Manufacturing Company, Philadelphia, Pa. Certain named piece goods. No. 154,294; Apr. 11.
- Hohlfeld Manufacturing Company, Philadelphia, Pa. Terry-cloth and terry-bath-robing piece goods, cloth towels, wash rags, etc. No. 156,583; July 4.
- Hohner, Matth Actien-Gesellschaft, Trossingen, Germany. Accordions. No. 158,258; Aug. 29.
- Holbert & Holbert, doing business as Holbert Syrup Co., Manhattan, Kans. Sirup made from pure sugar cane flavored with maple flavoring. No. 160,528; Oct. 24.
- Holbrook & Gibson, Chicago, Ill. Typewriter ribbons and carbon paper. No. 155,243; May 23.
- Holbrook, H. E., Company, Boston, Mass. Trundle beds and infants' coops. No. 157,520; Aug. 8.
- Holbrook, Merrill & Stetson, San Francisco and Los Angeles, Calif. Refuse receptacles. No. 162,520; Dec. 19.
- Holbrook, Royal E., Philadelphia, Pa. Liquid preparation for use as a mouth wash, gargler, and nasal spray. No. 153,594; Mar. 21.
- Holbrook, W. H., Company, Boston, Mass. Shoe-lining textile fabric in the piece. No. 155,154; May 16.
- Holcomb & Hoke Mfg. Co., Indianapolis, Ind. Certain heat-resisting glassware. No. 155,447; May 30.
- Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics. No. 152,192; Feb. 21.
- Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics. No. 152,427; Feb. 28.
- Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics. No. 161,503; Nov. 14.
- Holden-Leonard Company, New York, N. Y. Worsted and wooler textile fabrics. No. 162,966; Dec. 26.
- "Holemite" Auto Seat Company, The, Chattanooga, Tenn. Auxiliary seats for automobiles. No. 160,529; Oct. 24.

Alphabetical list of registrants of trade-marks—Continued.

- Holgate, Harry A., Philadelphia, Pa. Fuel oil for internal-combustion engines. No. 154,295; Apr. 11.
- Holland, A. D., & Co., Chicago, Ill. Aperient medicinal preparation. No. 156,301; June 20.
- Holland-American Wafer Co., Grand Rapids, Mich. Bakery products—namely, wafers. No. 152,825; Mar. 7.
- Holland Food Corporation, New York, N. Y. Condensed and evaporated milk. No. 153,751; Mar. 28.
- Holland Mfg. Co., New York, N. Y. Sewing thread for hand, machine, and embroidery work. Nos. 151,169-70; Jan. 24.
- Holland Mfg. Co., New York, N. Y. Sewing thread for hand, machine, and embroidery work. No. 154,443; Apr. 11.
- Holland, Marc A., London, England. Watches and watch movements. No. 162,269; Dec. 12.
- Holland, Robert F., Asheville, N. C. Removable waterproof covers for wagons and rolling vehicles. No. 162,776; Dec. 26.
- Holland Shoe Co., Holland, Mich. Leather boots and shoes and boot and shoe soles. No. 156,130; June 13.
- Hollander, A., & Son, Inc., Newark, N. J. Fur skins. No. 152,826; Mar. 7.
- Hollander Company, New York, N. Y. Bloomers. No. 161,367; Nov. 7.
- Hollingshead, R. M., Co., The, Camden, N. J. Auto-body polish, polishing wax, liquid tire cover, etc. No. 151,171; Jan. 24.
- Hollingshead, R. M., Co., The, Camden, N. J. Gear, cup, and graphite greases, magneto oil, etc. No. 151,331; Jan. 31.
- Hollingshead, R. M., Co., The, Camden, N. J. Certain chemical preparations. No. 152,193; Feb. 21.
- Hollingshead, R. M., Co., The, Camden, N. J. All-rubber-patch adhesive outfit. No. 153,201; Mar. 14.
- Hollingshead, R. M., Co., Camden, N. J. Metal polish, oil soap, etc. No. 155,715; June 6.
- Hollingshead, R. M., Co., The, Camden, N. J. Soldering compound in the nature of flux. No. 155,716; June 6.
- Hollingsworth & Whitney Co., Boston, Mass. Writing paper. No. 162,640; Dec. 19.
- Hollingsworth, William A., New York, N. Y. Smoking tobacco. No. 150,850; Jan. 10.
- Hollins, William, & Company Limited, London and Mansfield, England. Men's and boys' vests, pants, combinations, and children's clothing. No. 150,851; Jan. 10.
- Hollins, William, & Company, London and Mansfield, England. Certain articles of clothing. No. 155,717; June 6.
- Hollins, William, & Company Limited, London and Mansfield, England. Cloths of wool made by the yard or in the piece. No. 157,102; July 25.
- Hollinwood, George, Cranford, N. J. Certain horological instruments. No. 155,244; May 23.
- Hollister, James C., Washington, D. C. Coffee and tea. No. 154,581; Apr. 18.
- Holloway, Alonzo C., Hoisington, Kans. Cough sirup used in the treatment of colds, croup, whooping cough, etc. No. 161,167; Nov. 7.
- Holmac, Inc., New York, N. Y. Golf balls. Nos. 154,054-5; Apr. 4.
- Holmac, Inc., New York, N. Y. Golf balls. No. 155,448; May 30.
- Holmac, Inc., New York, N. Y. Golf balls. No. 156,302; June 20.
- Holmac, Inc., New York, N. Y. Golf clubs, balls, shafts, heads, grips, etc. No. 156,879; July 18.
- Holmac, Inc., New York, N. Y. Golf balls. No. 156,880; July 18.
- Holmac, Inc., New York, N. Y. Device for enabling a person to study and perfect himself in the game of golf. No. 157,978; Aug. 22.
- Holmac, Inc., New York, N. Y. Golf balls. No. 158,458; Sept. 5.
- Holmac, Inc., New York, N. Y. Golf balls. Nos. 159,903-5; Oct. 10.
- Holmac, Inc., New York, N. Y. Golf balls. No. 160,210; Oct. 17.
- Holmac, Inc., New York, N. Y. Golf gloves made of chamois leather. No. 162,085; Dec. 5.
- Holmac, Inc., New York, N. Y. Golf balls. No. 162,521; Dec. 19.
- Holman Soap Co., Chicago, Ill. Toilet soap. No. 162,270; Dec. 12.
- Holmes Chemical Company, Inc., Elizabeth, N. J., and New York, N. Y. Insecticide. No. 150,403; Jan. 3.
- Holmes, Clay W., deceased, Elmira, N. Y. F. M. Shoemaker, administrator, assignor to F. H. Shoemaker. Skin lotions. No. 155,079; May 16.
- Holmes, H. V., and Company, Tulsa, Okla. Men's suits, coats, vests, trousers, and overcoats. No. 162,011; Nov. 28.
- Holophane Glass Company, New York, N. Y. Annual catalogue. No. 150,404; Jan. 3.
- Holophane Glass Co. Inc., New York, N. Y. Glass globes and reflectors for artificial light. Nos. 150,405-6; Jan. 3.
- Holt & Company, New York, N. Y. Wheat flour. No. 152,195; Feb. 21.
- Holtite Manufacturing Co., Baltimore, Md. Rubber heels for shoes. No. 161,168; Nov. 7.
- Holtzclaw, Thomas A., Montgomery, Ala. Mattresses, pillows, pads, etc. No. 150,407; Jan. 3.
- Home Bottling Works, Memphis, Tenn. Non-alcoholic beverages and sirups for making same. No. 154,056; Apr. 4.
- Home Dairy Company, Saginaw, Mich. Butter, milk, buttermilk, cottage cheese, and cheese. No. 159,906; Oct. 10.
- Home Electric Lighting Company, East Orange, N. J. Electric generating plants. No. 151,508; Feb. 7.
- Home Products Inc., Rahway, N. J. Priming ether. No. 150,408; Jan. 3.
- Home Products Inc., Rahway, N. J. Chemical disinfectant, insecticide, and fungicide. No. 153,752; Mar. 28.
- Home Supply, The. (See Spencer, Le Roy.)
- Homeaid Products Co., Jersey City, N. J. Preparation for exterminating vermin on the human body and hair. No. 150,409; Jan. 3.
- Homestead Growers' Assn., Homestead, Fla. Fresh tomatoes. No. 150,410; Jan. 3.
- Honey Products Co., The. (See Cook, George C.)
- Honigbaum, Harry H., New York, N. Y. Shingles. No. 159,707; Oct. 3.
- Hood, Clement J., Commerce, Ga. Fresh peaches. No. 152,072; Feb. 14.
- Hood, H. P., & Sons, Inc., Boston, Mass. Carbonated soft drinks and sirups. No. 157,979; Aug. 22.
- Hood River Spray Company, Hood River, Oreg. Concentrated spray composition for vegetation, etc. No. 154,057; Apr. 4.
- Hood Rubber Company, Watertown, Mass. Rubber heels. No. 157,103; July 25.
- Hoodwin, J. W., Company, Chicago, Ill. Tray for ice-cream cones. No. 151,332; Jan. 31.
- Hooker Electrochemical Company, Niagara Falls, N. Y. Insecticides. Nos. 160,882-3; Oct. 31.
- Hooks, William A., Atlanta, Ga. Preparation for treatment of nervousness, sleeplessness, and general debility. No. 152,194; Feb. 21.
- Hooper, Wm. E., & Sons Co., Baltimore, Md. Netted and knitted cotton fabrics and cotton cloth. No. 150,411; Jan. 3.
- Hooper, Wm. E., & Sons Co., Baltimore, Md. Rope, cord, twine. No. 151,172; Jan. 24.
- Hooper, Wm. E., & Sons Co., Baltimore, Md. Receptacles. No. 151,173; Jan. 24.
- Hooper, Wm. E., & Sons Co., Baltimore, Md. Certain belting, hose, filter tubing, packing, etc. No. 151,809; Feb. 14.
- Hoosier Desk Company, Jasper, Ind. Desks and office tables. No. 158,984; Sept. 19.
- Hooven & Allison Company, The, Xenia, Ohio. Cordage. Nos. 153,202-3; Mar. 14.
- Hooven & Allison Company, The, Xenia, Ohio. Cordage. No. 153,753; Mar. 28.
- Hooven & Allison Company, The, Xenia, Ohio. Fiber ropes and twines. Nos. 154,972-4; May 16.
- Hooven & Allison Company, The, Xenia, Ohio. Ropes and cordage—namely, sisal and manila ropes. No. 159,377; Sept. 26.
- Hoover Steel Ball Company, Ann Harbor, Mich. Steel balls. No. 160,098; Oct. 10.
- Hope Company, Providence, R. I. White and bleached cotton goods in the piece. No. 153,466; Mar. 21.
- Hope Company, Providence, R. I. Cotton goods in the piece. No. 162,777; Dec. 26.
- Hopkins, Nevil M., New York, N. Y. Fireproof paints and varnishes. No. 158,459; Sept. 5.
- Hopkins, Thornton, Nashville, Tenn. Boiler compound. No. 156,441; June 20.
- Hopper, Albert M., Jamaica and New York, N. Y. Medicinal preparation and tonic for the treatment of nervous debility, etc. No. 162,159; Dec. 5.
- Horne & Bowey Company, Chicago, Ill. Flavoring extracts, marshmallow dressing, fudges, cocoa, ice-cream powder, crushed fruits, etc. No. 154,577; Apr. 18.
- Horman, Henry F., Detroit, Mich. Medicine. No. 153,754; Mar. 28.
- Hormel, Geo. A., & Co., Austin, Minn. Bacon, sausage, pigs' feet, etc. No. 152,827; Mar. 7.
- Horn, A. C., Co., Long Island City, N. Y. Cleaning and polishing powder. No. 155,718; June 6.
- Horn Company, Incorporated, The, Louisville, Ky. Non-alcoholic, maltless carbonated soft drinks and fountain sirups. No. 151,333; Jan. 31.
- Horn, W. O., & Brother, Inc., New York, N. Y. Cravats. No. 160,211; Oct. 17.
- Hornsey, John W., Jamaica Plain, Boston, Mass. Hair restorers. No. 158,985; Sept. 19.
- Hornung, Mathilda G., West New York, N. J. Certain salve. No. 160,884; Oct. 31.
- Ho-Ro-Co Manufacturing Company, St. Louis, Mo. Food-flavoring extracts (alcoholic and nonalcoholic), spices, tea, and cocoa. No. 160,530; Oct. 24.
- Horton, G. F., Houston, Tex. Certain construction material. No. 153,204; Mar. 14.
- Horton Manufacturing Co., The, Bristol, Conn. Steel shafts for golf clubs. No. 157,980; Aug. 22.
- Horwood, E. H., & Co., Hoboken, N. J., and New York, N. Y. Brassières. No. 153,595; Mar. 21.
- Horwood, E. H., & Co., Hoboken, N. J., and New York, N. Y. Brassières. No. 155,155; May 16.
- Hosick, Harry C., doing business as Hairon Company, Toledo, Ohio. Preparation for premature or receding baldness. No. 160,885; Oct. 31.

- Hosiery Clearing House Inc., New York, N. Y. Hosiery. No. 151,810; Feb. 14.
- Hosonuma & Co., Inc., Nihonbashi-ku, Tokyo, Japan. Paper and stationery. No. 151,174; Jan. 24.
- Hospital Specialty Co., Cleveland, Ohio. Sanitary napkins. No. 154,296; Apr. 11.
- Hott, John F., Monticello, Ill. Female remedy recommended for ovarian troubles, etc. No. 156,303; June 20.
- Houbigant, Inc. (See Perfumerie Houbigant.)
- Houbigant, Inc., New York, N. Y. Perfume extract and toilet water. No. 157,343; Aug. 1.
- Houdlett, Albert, & Sons, Inc., Brooklyn, N. Y. Musical instruments and supplies. No. 150,852; Jan. 10.
- Houdry, J., & Fils, Paris, France. Puncture-sealing compound. No. 160,212; Oct. 17.
- Hough Shade Corporation, Janesville, Wis. Supporting, guiding, and other fixtures and appliances for window shades. No. 162,086; Dec. 5.
- Hough Shade Corporation, Janesville, Wis. Wood-slat shades. No. 162,271; Dec. 12.
- Houghton, E. F., & Co., Philadelphia, Pa. Unguents. No. 22,443; renewed Feb. 7, 1923.
- Houghton, E. F., & Co., Philadelphia, Pa. Surface-hardening powder for steel. No. 154,058; Apr. 4.
- Houghton, E. F., & Co., Philadelphia, Pa. Leather belting. No. 160,531; Oct. 24.
- House Dress Apron Co. Inc., Amsterdam, N. Y. Aprons. No. 155,156; May 16.
- House, Jacob, & Sons, Buffalo, N. Y. Nonalcoholic maltless beverages and sirups for making same. No. 151,334; Jan. 31.
- Household Remedies Company, Birmingham, Ala. Certain medicinal and pharmaceutical preparations. No. 151,509; Feb. 7.
- Houser, Lester K., New York, N. Y. Daily publications relating to horse racing, etc. No. 154,050; Apr. 4.
- Housh, Frank E., Boston, Mass. Liquid adhesive preparation. No. 151,335; Jan. 31.
- Houston Brothers, Vicksburg, Miss. Dressed and undressed lumber. No. 150,412; Jan. 3.
- Houston Publishing Company, The, New York, N. Y. Monthly periodical. No. 159,378; Sept. 26.
- Hoyden, K., Company, Monterey, Calif. Canned fish. No. 151,808; Feb. 14.
- Hovey, Burton M., New York, N. Y. Glass substitute. No. 152,828; Mar. 7.
- Howard Furnace Company, Syracuse, N. Y., assignor to International Heater Company. Heating furnaces. No. 22,003; renewed Nov. 15, 1922.
- Howard, J. W., & Son, Louisville, Miss. Hair dressing. No. 154,297; Apr. 11.
- Howard, James D., Knoxville, Tenn. Certain medicinal preparation. No. 155,449; May 30.
- Howard, John S., Los Angeles, Calif. Strop dressing. No. 157,683; Aug. 15.
- Howard and Jones, Inc., New York, N. Y. Cloth in the piece of wool, cotton, or mixtures of same. No. 157,104; July 25.
- Howards & Sons Limited, Ilford, near London, England. Preparation for starting internal-combustion engines. No. 153,755; Mar. 28.
- Howe Company, Inc., Seattle, Wash. Hair nets. No. 154,298; Apr. 11.
- Howe, H. B., Company, The, Detroit, Mich. Display stands and shelves. No. 157,684; Aug. 15.
- Howes' Laboratories, Milford, Conn. Pharmaceutical preparation—namely, Howes' rheumatic tablets. No. 152,196; Feb. 21.
- Howland, John W., Middleton, Idaho. Ready-mixed paints; No. 151,336; Jan. 31.
- Hoy, F. P., Incorporated, New York, N. Y. Corsets. Nos. 158,987-8; Sept. 19.
- Hoyland Flour Mills Company, Kansas City, Mo. Wheat flour. Nos. 159,907-8; Oct. 10.
- Hoyland Flour Mills Company, Kansas City, Mo. Wheat flour. Nos. 159,909-10; Oct. 10.
- Hoyt, Charles W., New York, N. Y. Books for keeping household inventory, etc. No. 154,060; Apr. 4.
- Hoyt, F., & Co., Philadelphia, Pa. Cologne water. No. 157,266; July 25.
- Hoyt, F. M., Shoe Company, Manchester, N. H. Leather boots and shoes. No. 154,578; Apr. 18.
- Hoyt, Jesse N., Delaware, Ohio. Powder for general household cleaning purposes. No. 151,811; Feb. 14.
- Hrejsa, Joseph F., Chicago, Ill. Certain pharmaceutical preparations. No. 153,756; Mar. 28.
- H-2-O Still Company, Baltimore, Md. Distilled water, nonalcoholic beverages, and sirups for making same. No. 157,090; July 25.
- Hubbard, H. C., Co., Humboldt, Iowa. Nonalcoholic, maltless beverage. No. 155,572; May 30.
- Hubbell, Harvey, Incorporated, Bridgeport, Conn. Electric plugs, caps, and receptacles. No. 157,418; Aug. 1.
- Hubbs, Charles F., & Co., New York, N. Y. Paper from which patterns are made. No. 159,379; Sept. 26.
- Hubbs, Charles F., & Co., New York, N. Y. Writing and printing papers. No. 159,380; Sept. 26.
- Hubbs, Charles F., & Company, New York, N. Y. Wrapping paper. No. 160,532; Oct. 24.
- Hubbuck, Thos., & Son, Limited, London, England. Brooms and mops. No. 151,175; Jan. 24.
- Hubbuck, Thomas, & Son Limited, London, England. Sulphates, chlorides, and acetates of metals, perfumes, etc. No. 161,504; Nov. 14.
- Hudford Company of Chicago, Chicago, Ill. Motor trucks, conversion units for making motor trucks from automobiles, and parts thereof. No. 156,529; June 27.
- Hudor Co., The. (See Rogers, S. C., and Pearson, assignor.) (Renewed.)
- Hudor Co., The, Buffalo, N. Y. Ginger ale, root beer, sarsaparilla, birch beer, etc. No. 157,981; Aug. 22.
- Hudson Bay Fur Company. (See Silbert, Harry.)
- Hudson & Company, New York, N. Y. Ointment for external use, indicated in the treatment of eczema, boils, etc. No. 150,413; Jan. 3.
- Hudson Distributing Company, New York, N. Y. Malt sirup, malt extract for making malt beverages. Nos. 154,061-2; Apr. 4.
- Hudson, King C., Chicago, Ill. Tooth paste. No. 155,719; June 16.
- Hudson Leather Company, Albany, N. Y. Leather. No. 152,028; Feb. 14.
- Hudson Leather Company, Albany, N. Y. Leather. No. 153,596; Mar. 21.
- Hudson Motor Specialties Company, Philadelphia, Pa. Transmission or crank-casing parts. No. 161,786; Nov. 21.
- Hudson Narrow Fabric Co., Hudson, Mass. Textile webbing of narrow weave. No. 155,720; June 6.
- Hudson, R. A., Company, Incorporated, Auburn, N. Y. Face and hand creams and lotions. No. 155,982; June 13.
- Hudson, R. A., Company Incorporated, Auburn, N. Y. Certain toilet preparations. No. 156,304; June 20.
- Hudson Seal Co. Inc., New York, N. Y. Fur coats, wraps, capes, and neck pieces. No. 157,521; Aug. 8.
- Hudson Tire Co. Inc., Newark, N. J. Rubber tires. No. 157,106; July 25.
- Huerfano Agency Company, The, Walsenburg, Colo. Coals. No. 162,778; Dec. 26.
- Huetter Machine and Tool Co., Indianapolis, Ind. Gears. No. 153,757; Mar. 28.
- Huff, Oliver W., Hot Springs, Ark. Dentifrice. No. 157,685; Aug. 15.
- Huggins, Walter H., Malden, Mass. Disinfectants, deodorizers, fumigators, and antiseptics. No. 155,450; May 30.
- Hughes & Brettell, New York, N. Y. House organs, pamphlets, folders, and booklets. No. 150,830; Jan. 10.
- Hughes, Robert D., Lynchburg, Va. Automobile rim tools. No. 154,975; May 16.
- Hughes, W. H., Sapulpa, Okla. Preparation for the treatment of rheumatism, gout, etc. No. 156,305; June 20.
- Hilgo Büchner, Maschinenfabrik und Apparatebau-Anstalt Gesellschaft mit beschränkter Haftung, Berlin, Germany. Roller stropping apparatus for razors and safety-razor blades. No. 154,976; May 16.
- Hugo, John Manufacturing Company, The, New Haven, Conn. Toy dog and kennel. No. 161,169; Nov. 7.
- Hujarvis. (See Lyben, René.)
- Hulse, A. C., Jr., New York, N. Y. Hosiery. No. 157,982; Aug. 22.
- Hulshizer Milling & Baking Co., The, Newark, Ohio. Wheat flour. No. 161,883; Nov. 21.
- Humason Manufacturing Company, The, Bristol, Conn. Coil and flat springs and set screws, cap nuts, and turned knobs. No. 150,853; Jan. 10.
- Hume, G. W., Company, San Francisco, Calif. Canned fish, salmon, fruits, and vegetables. No. 157,686; Aug. 15.
- Humidisk Company, Detroit, Mich. Tobacco humidifiers. No. 161,505; Nov. 14.
- Humphreys-Godwin Company. (See Humphreys, Hugh.)
- Humphreys-Godwin Company, Memphis, Tenn. Stock and poultry feed. No. 159,381; Sept. 26.
- Humphreys, Hugh, doing business as Humphreys-Godwin Company, Memphis, Tenn. Cottonseed meal. No. 161,884; Nov. 21.
- Humphreys Manufacturing Company, The, Mansfield, Ohio. Electric water-supply pumps. No. 153,205; Mar. 14.
- Hunstoeck, R. H., & Co., St. Louis, Mo. Medicinal preparation used for the relief of headache, neuralgia, etc. No. 153,758; Mar. 28.
- Hunt Brothers Packing Company, San Francisco, Calif. Canned fruits, vegetables, tuna fish, and preserves. No. 154,771; May 2.
- Hunt Brothers Packing Company, San Francisco, Calif. Canned fruits, vegetables, and fish. No. 161,699; Nov. 14.
- Hunt, David, & Co., Oswego, N. Y. Canned vegetables. No. 160,779; Oct. 24.
- Hunt, J. L., Ponca City, Okla. Hair tonic and restorer. No. 153,759; Mar. 28.
- Hunt, J. Roy, Inc., Long Island City and Astoria, N. Y. Radio-tube mounting. No. 160,886; Oct. 31.
- Hunt, J. Roy, Inc., Long Island City, N. Y. Certain named radio apparatus. No. 162,272; Dec. 12.
- Hunter Mfg. & Com. Co., New York, N. Y. Cotton piece goods. No. 161,170; Nov. 7.
- Hunter, Robert L., Norfolk, Va. Flash lights, search-lights, and spots lights. No. 155,721; June 6.
- Hunterdon Garage and Machine Shop. (See Prehn, Ernest.)
- Hunziker, Emil B., Seattle, Wash. Milk-bottle-cap lifters. No. 153,206; Mar. 14.
- Hup Mfg. Co. Inc., New York, N. Y. Golf-ball markers. No. 160,533; Oct. 24.
- Hupp Motor Car Corporation, Richmond, Va. Automobiles. No. 155,451; May 30.

Alphabetical list of registrants of trade-marks—Continued.

- Hurd, George B., & Co., New York, N. Y. Writing paper and envelopes. No. 21,133; renewed May 17, 1922.
- Hurd, George B., & Co., New York, N. Y. Writing paper and correspondence envelopes. No. 154,826; May 9.
- Hurd, George B., & Co., New York, N. Y. Writing paper and correspondence envelopes. Nos. 157,419-21; Aug. 1.
- Hurd, George B., & Co., New York, N. Y. Writing paper and correspondence envelopes. No. 157,812; Aug. 15.
- Hurewicz, Bertha, Philadelphia, Pa. Hair-curling liquid. No. 159,708; Oct. 3.
- Hurley, H. O., Company, Louisville, Ky. Maltless, non-alcoholic sirup from which a soft-drink beverage is made. No. 152,829; Mar. 7.
- Hurley Machine Company, Chicago, Ill. Metal clothes containers for washing machines. No. 158,232; Aug. 29.
- Hurty-Peck & Company, Indianapolis, Ind. Nonalcoholic maltless beverage and sirup for making same. No. 156,881; July 18.
- Hurty-Peck & Co., Indianapolis, Ind. Flavoring sirups for nonalcoholic maltless beverages. No. 157,522; Aug. 8.
- Hurwitz, George J., New York, N. Y. Remedy to take off superfluous fat and reduce weight. No. 153,760; Mar. 28.
- Hurwitz, Jeanee B., Berlin, Germany. Duplicating machines and attachments therefor. No. 152,830; Mar. 7.
- Huseman, Charles, St. Louis, Mo. Convertible children's wagons, coasters, and scooters. No. 155,452; May 3.
- Husqvarna Vapenfabriks Aktiebolag, Husqvarna, Sweden. Meat mincers, grinders, and choppers. No. 153,761; Mar. 28.
- Hussmann, Harry L., Refrigerator & Supply Company, St. Louis, Mo. Freezer display counter. No. 152,429; Feb. 28.
- Hut Neckwear Company, New York, N. Y. Men's and boys' cravats. No. 157,983; Aug. 22.
- Huth, Gillespie & Company, Inc., New York, N. Y. Cottonseed oil for food purposes. No. 162,087; Dec. 5.
- Hutmacher Braiding Company, The, Paterson, N. J. Shoe laces. Nos. 151,812-3; Feb. 14.
- Hutmacher Braiding Company, The, Paterson, N. J. Shoe laces. No. 162,779; Dec. 26.
- Hutton, Thomas L., Detroit, Mich. Certain named ointment. No. 154,299; Apr. 11.
- Huyck, F. C., & Sons, Albany, N. Y. Bedspreads and couch covers. No. 152,197; Feb. 21.
- Huyck, F. C., & Sons, Albany, N. Y. Steamer and sanitarium rugs, lap robes, overcoating. No. 155,453; May 3.
- Huyck, F. C., & Sons, Albany, N. Y. Woolen and canvas camping or sleeping bags. Nos. 157,107-8; July 25.
- Hyatt, Adda E., doing business as Hyatt and Company, Anderson, Ind. Hair invigorator and tonic. No. 157,523; Aug. 8.
- Hyatt and Company. (See Hyatt, Adda E.)
- Hydarginol Company, Kansas City, Mo. Certain medicinal preparation. No. 157,524; Aug. 8.
- Hydraulic Steel Company, The, Cleveland, Ohio. Barrels. No. 161,952; Nov. 28.
- Hydroloid Incorporated. (See Edmunds, Henry, assignor.)
- Hy-Gen-O Laboratory, Spring Valley, N. Y. Tooth paste. No. 160,887; Oct. 31.
- Hygienic Artificial Ice Co., Minneapolis, Minn. Artificial ice. No. 159,911; Oct. 10.
- Hygienic Fibre Company, Versailles, Conn. First-aid outfits. No. 154,977; May 16.
- Hy & K. Schnirring, New York, N. Y. Vegetable table relish. No. 154,579; Apr. 18.
- Hyman, Frank W., New York, N. Y. Transfer sheets for use in the art of printing. No. 154,978; May 16.
- Hyman, Maurice C., Rochester, N. Y. Infants' and children's boots and shoes of leather, rubber, etc. No. 150,854; Jan. 10.
- Hymson, Charles E., Louisville, Ky. Overalls. No. 154,580; Apr. 18.
- Hymson, Charles E., Louisville, Ind. Overalls. No. 157,813; Aug. 15.
- Hynds, Therese, New York, N. Y. Corsets. No. 157,984; Aug. 22.
- Hy-Ray Products Co. (See McConomy, Paul L.)
- Hy-Sil Manufacturing Co., Revere, Mass. Tinsel cord for fancy work and narrow tape for binding. No. 160,343; Oct. 17.
- Hy-Test Cement Co. (See Malmad, A. T.)
- I-C Manufacturing Company, Chicago, Ill. Grease and oil guns and connections therefor. No. 152,430; Feb. 28.
- I. X. L. Furniture Company, Goshen, Ind. Kitchen cabinets and tables. No. 153,451; Mar. 21.
- I. X. L. Drug Company, The. (See Anstadt, C. A.)
- Icy-Hot Bottle Company, Cincinnati, Ohio. Coffee, sugar, tea, soap, etc. No. 158,708; Sept. 12.
- Idaho Vinegar & Cider Co., Payette, Idaho. Vinegar. No. 155,894; June 6.
- Ideal Baby Shoe Company. (See Day, Adra L.)
- Ideal Bath Robe Co. Inc., Brooklyn, N. Y. Infants' bath robes. No. 157,687; Aug. 15.
- Ideal Coated Paper Company, Brookfield, Mass. Gummed paper. Nos. 151,143-4; Jan. 24.
- Ideal Coated Paper Company, Brookfield, Mass. Gummed paper. No. 156,804; July 11.
- Ideal Cocoa & Chocolate Co., Lititz, Pa., and New York, N. Y. Chocolate coating. No. 154,583; Apr. 18.
- Ideal Cocoa & Chocolate Co., Lititz, Pa., and New York, N. Y. Chocolate coating. No. 162,273; Dec. 12.
- Ideal Jewelry Manufacturing Co. Inc., Providence, R. I. Bracelets. No. 152,831; Mar. 7.
- Ideal Linen Mesh Co., Poughkeepsie, N. Y. Sweaters. No. 150,414; Jan. 3.
- Ideal Linen Mesh Co., Poughkeepsie. Shawls and sweaters. No. 160,213; Oct. 17.
- Ideal Rim Tool Company, Jacksonville, Fla. Rim tools. No. 153,207; Mar. 14.
- Ideal Shoe Manufacturing Company, Milwaukee, Wis. Shoes. No. 157,109; July 25.
- Illinois Pure Aluminum Co., Lemont, Ill. Certain articles of aluminum ware and for household and kitchen purposes. No. 155,245; May 23.
- Illinois Razor Strop Company, Chicago, Ill. Razor strops. Nos. 151,814-5; Feb. 14.
- Illinois Razor Strop Company, Chicago, Ill. Razor strops. No. 155,454; May 30.
- Illinois Watch Case Company, Elgin, Ill. Watch movements. No. 152,832; Mar. 7.
- Illinois Watch Case Company, Elgin, Ill. Watch movements. No. 159,190; Sept. 19.
- Illinois Yarn Company, Inc., The, Rochelle, Ill. Worsted yarns. No. 162,641; Dec. 19.
- Imperial Chemical Mfg. Co., New York, N. Y. Powdered depilatories, shampoos, face creams, etc. No. 157,525; Aug. 8.
- Imperial Children's Shoe Corporation, Rochester, N. Y. Leather shoes for children. No. 150,855; Jan. 10.
- Imperial Flour Mills Company, The, Wichita, Kans. Wheat flour, Graham flour, and corn meal. No. 159,912; Oct. 10.
- Imperial Packing Company, Canajoharie and New York, N. Y., assignor to Beech-Nut Packing Company. Hams and bacon. No. 19,838; renewed July 7, 1921.
- Imperial Paint Company. (See Wood, George L., & Son, assignor.)
- Imperial Perfume Co., New York, N. Y. Toilet preparations. No. 157,344; Aug. 1.
- Imperial Valley Vegetable and Melon Growers Association, Brawley, Calif. Muskmelons. No. 160,889; Oct. 31.
- Import Paper Company, Chicago, Ill. Writing paper. Nos. 157,985-6; Aug. 22.
- Improved Reversible Glove Co., Inc., New York, N. Y. Gloves. No. 158,989; Sept. 19.
- In-Cre-So Company, The, Kansas City, Mo. Stimulant to increase the egg production of laying hens. No. 155,455; May 30.
- Independent Breweries Company, The, St. Louis, Mo. Beverages sold as soft drinks and sirups used in preparation of the same. No. 160,534; Oct. 24.
- Independent Chemical Company, Incorporated, Hartford, Conn. Automobile and furniture polish. No. 161,506; Nov. 14.
- Independent Gasaver Corporation, New York, N. Y. Heat-concentrating drums for gas, gasoline, kerosene, and alcohol burners. No. 154,063; Apr. 4.
- Independent Gravel Company, Joplin, Mo. Stucco. No. 160,214; Oct. 17.
- Independent Lock & Key Manufacturing Co., Inc., Leominster, Mass. Locks and keys. No. 159,382; Sept. 26.
- Independent Salt Company, New York, N. Y. Salt. No. 157,987; Aug. 22.
- Independent Salt Company, New York, N. Y. Salt. No. 160,890; Oct. 31.
- Independent Stove Company, Owosso, Mich. Stoves, ranges, furnaces, and combination coal and gas stoves. No. 157,110; July 25.
- Inderrieden Canning Co., Chicago, Ill. Canned vegetables. No. 151,816; Feb. 14.
- India Company, The, Newark, N. J. Chewing gum. No. 157,111; July 25.
- India Rubber, Gutta Percha & Telegraph Works Company Limited, The, London, England. India-rubber tires. No. 160,535; Oct. 24.
- Indian Packing Corporation, Green Bay, Wis. Canned chili sauce, tomato catsup, corn, peas, beans, etc. No. 153,762; Mar. 28.
- Indian Remedy Company, Brockton, Mass. Blood medicine used in the treatment of gonorrhea and clap and asthma medicine. No. 158,233; Aug. 29.
- Indiana Condensed Milk Company, Indianapolis, Ind. Milk product consisting of skimmed milk and vegetable fat. No. 159,383; Sept. 26.
- Indiana Indestructible Paint Co., Chicago, Ill. Combined stain and floor varnish. No. 159,193; Sept. 19.
- Indiana Lamp Company, Connersville, Ind. Electric vehicle lamps. No. 150,679; Jan. 3.
- Indiana Lamp Company, Connersville, Ind. Electric vehicle lamps. No. 156,689; July 11.
- Indiana Piston Ring Company, The, Hagerstown, Ind. Engine piston rings. No. 153,208; Mar. 14.
- Indiana Rubber and Insulated Wire Company, The, Jonesboro, Ind. Insulated wires and electric cables and insulating material. No. 20,916; renewed Mar. 29, 1922.
- Indiana Steel & Wire Co., Muncie, Ind. Telephone, telegraph, and conducting wire. No. 161,017; Oct. 31.
- Indianapolis Abattoir Company, Indianapolis, Ind. Bacon, smoked belly, fresh pork sausage, etc. No. 152,198; Feb. 21.

- Indianapolis Brush & Broom Mfg. Co., Indianapolis, Ind. Brooms and floor brushes. No. 154,197; Apr. 4.
- Indianapolis Cordage Company, Indianapolis, Ind. Binder twine. No. 153,209; Mar. 14.
- Indianapolis Glove Company, Indianapolis, Ind. Fabric gloves. No. 154,584; Apr. 18.
- Individual Tailoring Company, Cincinnati, Ohio. Men's and young men's clothing. No. 160,215; Oct. 17.
- Industrial Hosiery Mills. (See Leininger, George H.)
- Industrial Materials Co. Inc., New York, N. Y. Foldable dining tables and stools. No. 157,688; Aug. 15.
- Industrial Paint Company, Leetsdale Borough and Fair Oaks Borough, Pa. Dry paste and ready-mixed paints. No. 158,460; Sept. 5.
- Industrial Paint Company, Leetsdale Borough and Fair Oaks Borough, Pa. Dry, paste, and ready-mixed paints. No. 158,709; Sept. 12.
- Industrial Paper Company, Baltimore, Md. Toilet and wrapping paper. No. 152,431; Feb. 28.
- Industrial Paper Company, Baltimore, Md. Kraft wrapping paper. No. 153,468; Mar. 21.
- Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Mixing machinery, rock and hammer drills, etc. No. 150,856; Jan. 10.
- Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Certain tools and machinery and repair parts therefor. No. 151,510; Feb. 7.
- Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Hose composed of rubber and fabric. No. 154,827; May 9.
- Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Hose, composed of rubber and fabric. No. 160,536; Oct. 24.
- Ingersoll, Robt. H., & Bro., New York, N. Y. Watches and clocks. Nos. 158,461-2; Sept. 5.
- Ingersoll, William H., New York, N. Y. Pencils. No. 159,384; Sept. 26.
- Inglewood Manufacturing Company, Inglewood, Calif. Chairs. No. 160,780; Oct. 24.
- Ingraham, Langley, Philadelphia, Pa. Liquid preservation coating for automobile tires. No. 151,511; Feb. 7.
- Ingram, Frederick F., Company, Detroit, Mich. Complexion lotion. No. 155,456; May 30.
- Ingram, Frederick F., Company, Detroit, Mich. Pharmaceutical preparations. Nos. 158,463-4; Sept. 5.
- Ingram, Walter M., Baltimore, Md. Air pumps. No. 152,833; Mar. 7.
- Injun Washing Powder Co. (See Kihn, August E.)
- Inkograph Company, Inc., New York, N. Y. Pencils. No. 156,306; June 20.
- Inlaid Co., The, Providence, R. I. Cigarette cases. No. 152,834; Mar. 7.
- Inlander, S., & Co., Chicago, Ill. Certain receptacles. No. 162,012; Nov. 28.
- Innis, Speiden & Co. Inc., New York, N. Y. Soap and benzene soap. No. 155,722; June 6.
- Innis, Speiden & Co., Inc., New York, N. Y. Certain chemicals. No. 156,307; June 20.
- Insecto Manufacturing Co., Inc., Cedar Grove, La. Insecticide. No. 152,199; Feb. 21.
- Instant Carbon Remover Company. (See Morin, Stanley.)
- Instant Extract Company, Monessen, Pa. Nonalcoholic, maltless flavoring extracts for birch beer, etc. No. 151,817; Feb. 14.
- Instant Products Corporation. (See Morin, Stanley.)
- Insulating Materials Company, Detroit, Mich. Mineral rubber. No. 154,444; Apr. 11.
- Insulite Chemical Company, Aurora, Ill. Flooring in sheet form composed of mastic materials for use in laying such flooring. No. 152,835; Mar. 7.
- Insulite Chemical Company, Aurora, Ill. Plastic mastic material. No. 152,836; Mar. 7.
- Interchangeable Wall Case Co., The, Detroit, Mich. Store wall-cases, showcases, and interchangeable shelving. No. 155,723; June 6.
- Inter-Collegiate Press, Kansas City, Mo. Writing paper. No. 157,345; Aug. 1.
- Interlock Hardware Company, Inc., The, New Haven, Conn. Automobile luggage and tire carriers. No. 157,112; July 25.
- International Association of Lions Clubs, Chicago, Ill. Periodicals issued monthly, bulletins, and circulars. No. 152,029; Feb. 14.
- International Association of Lions Clubs, Chicago, Ill. Monthly periodical. No. 152,030; Feb. 14.
- International Bedding Co., Inc., Baltimore, Md. Mattresses, pillows, and box springs. No. 152,314; Feb. 21.
- International Bedding Co., Baltimore, Md. Mattresses, pillows, box springs. Nos. 153,469-70; Mar. 21.
- International Bedding Co., Baltimore, Md. Felt mattresses. No. 155,724; June 6.
- International Bedding Co., Baltimore, Md. Felt mattresses. No. 155,725; June 6.
- International Bedding Co. Inc., Baltimore, Md. Box springs. No. 158,234; Aug. 29.
- International Bedding Co., Inc., Baltimore, Md. Mattresses, pillows, and box springs. No. 161,018; Oct. 31.
- International Bedding Co., Inc., Baltimore, Md. Mattresses, pillows, and box springs. No. 162,274; Dec. 12.
- International Braid Company, Providence, R. I. Shoe lacings, corset lacings, galloons, and braids. No. 157,689; Aug. 15.
- International Chemical Co. (See Benoliel, Solomon D.)
- International Consolidated Chemical Corporation Inc., New York, N. Y. Face lotions. No. 150,415; Jan. 3.
- International Consolidated Chemical Corporation, Inc., New York, N. Y. Medicinal preparations for intestinal toxemia. Nos. 154,300-01; Apr. 11.
- International Consolidated Chemical Corporation, Inc., doing business as Dae Health Laboratories, New York, N. Y. Medicinal preparation for malassimilation and nutritional disorders. No. 161,171; Nov. 7.
- International Corn Products Corporation, Detroit, Mich. Candy, consisting of pop corn, fruit, and nuts. No. 159,191; Sept. 19.
- International Cotton Protecting Company, Wilmington, Del., and Chicago, Ill. Certain chemical preparations. No. 160,891; Oct. 31.
- International Development Company, Boston, Mass. Skates. No. 156,882; July 18.
- International Federation of Technical Engineers', Architects', and Draftsmen's Unions, Washington, D. C. Pamphlets, books, circulars, prints, drawings, etc. No. 157,691; Aug. 15.
- International Filter Co., Chicago, Ill. Water-purification apparatus. No. 154,979; May 16.
- International Fireworks Co. (See Bottieri, Henry.)
- International Harvester Company, Chicago, Ill. Certain agricultural machinery and tractors and tractor hitches. No. 152,433; Feb. 28.
- International Heater Company. (See Howard Furnace Company, assignor.)
- International India Rubber Corporation, South Bend, Ind. Rubber tires. No. 154,828; May 9.
- International Lubricating Co., The, Cincinnati, Ohio. Oils and greases. No. 151,337; Jan. 31.
- International Magazine Corporation, New York, N. Y. Monthly publication. No. 162,275; Dec. 12.
- International Mailing Tube & Wrapper Co., New York and Brooklyn, N. Y. Mailing wrappers. No. 159,385; Sept. 26.
- International Motor Company, New York, N. Y. Motor trucks. No. 153,210; Mar. 14.
- International Paper Company, New York, N. Y. Paper used for writing and printing purposes. No. 160,537; Oct. 24.
- International Permolde Company, Cleveland, Ohio. Metal castings. No. 159,386; Sept. 26.
- International Safety Razor Corporation. (See Bryant, Augustus H., assignor.)
- International Salt Co. of New York, New York, N. Y. Salt. No. 151,512; Feb. 7.
- International Salt Co. of New York, New York, N. Y. Salt. No. 153,763; Mar. 28.
- International Salt Co. of New York, New York, N. Y. Dairy and table salt. No. 155,457; May 30.
- International Salt Co. of New York, New York, N. Y. Salt. No. 157,526; Aug. 8.
- International Salt Co. of New York, New York, N. Y. Salt. No. 161,507; Nov. 14.
- International Shoe Co., St. Louis, Mo. Shoes for men, women, and children, made of leather, rubber, fabric, or the combination thereof. No. 157,113; July 25.
- International Shoe Company of Wilmington. (See Peters Shoe Company, assignor.)
- International Silver Company, Meriden and Bridgeport, Conn. Silver-plated flat metal tableware. No. 151,390; Jan. 31.
- International Silver Company, Meriden and Bridgeport, Conn. Silver-plated flat and hollow tableware. No. 152,837; Mar. 7.
- International Silver Company, Meriden and Bridgeport, Conn. Silver-plated flat metal tableware. No. 153,931; Mar. 28.
- International Silver Company, Meriden, Conn. Certain unplated flat tableware. No. 157,619; Aug. 8.
- International Silver Company, Meriden and Bridgeport, Conn. Pasteboard boxes. No. 161,368; Nov. 7.
- International Sugar Feed Co., Minneapolis, Minn. Poultry feed, scratch size. No. 161,508; Nov. 14.
- International Sugar Feed Co., Minneapolis, Minn. Dairy feed. No. 161,885; Nov. 21.
- International Standard Exporting Corporation, New York, N. Y. Textile fabrics. No. 150,857; Jan. 10.
- International Tag Co., Chicago, Ill. Shipping tags. No. 153,471; Mar. 21.
- International Talking Machine Company. Berlin-Weissensee, Germany. Certain talking machines and parts and supplies therefor. No. 155,726; June 6.
- International Telephone and Telegraph Corporation, New York, N. Y. Periodical published monthly devoted to the telephone and telegraph industry. No. 160,892; Oct. 31.
- International Toy Company, Limited, Montreal, Quebec, Canada. Velocipedes and go-carts for children. No. 160,538; Oct. 24.
- International Toy Manufacturing Co., Seattle, Wash. Toy dog. No. 150,416; Jan. 3.
- International Vending Machines Ltd., Montreal, Quebec, Canada. Vending machines. No. 159,709; Oct. 3.
- Interpreter Publishing Corporation, New York, N. Y. Weekly periodical. No. 158,991; Sept. 19.
- Interstate Shade Cloth Co., Hoboken, N. J. Self-acting spring shade roller. No. 150,417; Jan. 3.
- Interstate Shade Cloth Co., Hoboken, N. J. Shade rollers. No. 157,527; Aug. 8.

Alphabetical list of registrants of trade-marks—Continued.

- Int-Hout, Adam, Chicago, Ill. Mixture for making pies, puddings, custards, and cake filling. No. 141,112; Mar. 14.
- Iowa Malleable Iron Company, Fairfield, Iowa. Malleable-iron castings. No. 156,690; July 11.
- Iowa Soap Company, Burlington, Iowa. Laundry soap. No. 157,690; Aug. 15.
- Ipswich Milling Co., Ipswich, S. D. Wheat flour. Nos. 153,472-3; Mar. 21.
- Irish Linen Society, Belfast, Ireland. Textile fabrics. No. 159,387; Sept. 26.
- Irish Linen Society, Belfast, Ireland. Green linen yarn and boiled linen yarn. No. 160,539; Oct. 24.
- Irish Linens, Inc., New York, N. Y. Linens and canvas in piece goods and tablecloths, napkins, handkerchiefs. No. 156,308; June 20.
- Irokese Trading Corporation, New York, N. Y. Clocks. No. 151,513; Feb. 7.
- Irokese Trading Corporation, New York, N. Y. Boxed sets of changeable-feature games. No. 157,267; July 25.
- Irokese Trading Corporation, New York, N. Y. Packaged set of changeable-feature folding cards. No. 157,268; July 25.
- Iron King Manufacturing Company, The, Bradner, Ohio. Oil-well pulling machinery. No. 151,514; Feb. 7.
- Iron Oxide Products, Inc., Cicero, Ill. Iron oxide. No. 157,346; Aug. 1.
- Irondequoit Fruit Juice Co., Irondequoit, N. Y. Beverage and sirups for making same. No. 157,988; Aug. 22.
- Irongland Company, San Francisco, Calif. Medicinal tonic tablet. No. 158,235; Aug. 29.
- Iroquois Beverage Corporation, Buffalo, N. Y. Non-alcoholic maltless beverages. No. 151,145; Jan. 24.
- Irvine, Alex H., Company, Curwensville, Pa. Automatic paper-fastening machines. No. 159,388; Sept. 26.
- Irvin-Smith Co., Chicago, Ill. Lip sticks, nail polish, and and incense. No. 150,418; Jan. 3.
- Irvin-Smith Company, Inc., Chicago, Ill. Box parlor games. No. 151,146; Jan. 24.
- Irvin-Smith Company, Inc., Chicago, Ill. Toothbrushes. No. 151,147; Jan. 24.
- Irwin Cloak Company, Cincinnati, Ohio. Certain articles of ladies' wearing apparel. No. 156,131; June 13.
- Irwin, Murry, Cleveland, Ohio. Household and general office inventory record blanks. No. 152,434; Feb. 28.
- Irwin Paper Company, Quincy, Ill. Asphalt roofing and shingles, sheathing-paper, and felt. No. 152,838; Mar. 7.
- Irwin, Thomas C., Chicago, Ill. Coal. No. 155,985; June 13.
- Isaacs, Edward J., New York, N. Y. Knitted hosiery, underwear, and petticoats for women. No. 151,818; Feb. 14.
- Isaacs, Tula E., doing business as Dorothy Perkins Toilet Goods Company, Dallas, Tex. Face-cleansing and face creams, antiseptic beauty balm, hair tonic, hair-curling fluid. No. 158,465; Sept. 5.
- Isle of Wight Water Company, Dover, Del., and Philadelphia, Pa. Mineral water. No. 156,883; July 18.
- Ismert-Hincke Milling Company, The, doing business as The Tiblow Mills Co., Kansas City, Kans., and Kansas City, Mo. Wheat flour. No. 161,886; Nov. 21.
- Isola Gesellschaft für Wärme- und Kälte-Isolierung, Rudoldstadt, Germany. Double-walled receptacles. No. 153,211; Mar. 14.
- Israel, Elias, doing business as Ecuadorian Panama Hat Company, New York, N. Y. Woven fabric hats. No. 161,172; Nov. 7.
- Israel, Morris, New York, N. Y. Fabrics in the piece for use in the making of corsets. No. 155,458; May 30.
- Italian Supply Co., The, Lock Haven, Pa. Olive oil, tomato sauce, and macaroni. No. 159,389; Sept. 26.
- Italy Commercial Co., New York, N. Y. Pure olive oil. No. 153,212; Mar. 14.
- Itchgon Company, The. (See Uhry, Herman.)
- Iten Biscuit Co., Clinton, Iowa. Soda crackers. No. 161,510; Nov. 14.
- Iten Biscuit Co., Omaha, Nebr. Cakes. No. 162,780; Dec. 26.
- Ivens, C. A. P., Nymegen, Netherlands. Cameras, optical lenses, sensitized photographic films, etc. No. 155,986; June 13.
- Ivoroid Mixed Paint Company, Newark, N. J. Paints, paint enamels, varnishes. No. 154,980; May 16.
- Ivo-San Laboratory, The. (See Feil, S. R.)
- Ivy Corset Company, Worcester, Mass. Ladies' underwear consisting of bloomers, knickerbockers, undervests. No. 161,173; Nov. 7.
- Iwai & Co. of New York, Ltd., New York, N. Y. Sheets, tubes, and rods composed of a mixture of nitrocellulose and camphor. No. 151,148; Jan. 24.
- Izen Company, Incorporated, New York, N. Y. Preparation for preserving the surface of metals. No. 153,764; Mar. 28.
- J. Garbáty-Rosenthal Zigarettenfabrik J. Garbáty, Berlin-Pankow, Berlin-Pankow, Germany. Cigars, cigarettes, etc. Nos. 157,378-80; Aug. 1.
- J. Garbáty-Rosenthal Zigarettenfabrik J. Garbáty, Berlin-Pankow, Berlin-Pankow, Germany. Cigars, cigarettes, smoking, chewing, and snuff tobacco, cut tobacco. No. 157,499; Aug. 8.
- J. Garbáty-Rosenthal Zigarettenfabrik J. Garbáty, Berlin-Pankow, Berlin-Pankow, Germany. Cigars, cigarettes, cigarillos, smoking, chewing, and snuff tobacco, etc. No. 157,500; Aug. 8.
- J. Garbáty-Rosenthal Zigarettenfabrik J. Garbáty, Berlin-Pankow, Berlin-Pankow, Germany. Cigarettes. No. 157,501; Aug. 8.
- J. Garbáty-Rosenthal Zigarettenfabrik J. Garbáty, Berlin-Pankow, Berlin-Pankow, Germany. Cigars, cigarettes, cigarillos, etc. Nos. 157,502-3; Aug. 8.
- J. H. B. Company, The. (See Bonn, John H.)
- J. L. Aircraft Corporation, New York, N. Y. Aeroplanes. No. 151,655; Feb. 14.
- J. X. Chemical Company, The, Baltimore, Md. Certain pharmaceutical preparations. No. 156,203; June 20.
- Jaburg-Miller Co. Inc., New York, N. Y. Certain bakery machinery. No. 151,515; Feb. 7.
- Jaburg-Miller Co. Inc., New York, N. Y. Monthly catalogue. No. 159,390; Sept. 26.
- Jack & Jill Knitting Mills, Inc., Newark, N. J. Certain articles of clothing. No. 155,459; May 30.
- Jackie-Klothes, Inc., Brooklyn, N. Y. Boys' and girls' middy suits. No. 159,192; Sept. 19.
- Jackson Company, The, Dubuque, Iowa. Prepared mustard, peanut butter, vinegar. No. 156,691; July 11.
- Jackson Corset Company, Jackson, Mich. Corsets, corset waists, brassières, and bandeaux. No. 154,593; Apr. 18.
- Jackson & Gutman Company, Salisbury, Md. Negligee shirts. No. 156,805; July 11.
- Jackson-Guldan Violin Company, The, Columbus, Ohio. Violins and parts thereof. No. 151,149; Jan. 24.
- Jackson, J. H., Company, Inc., New York, N. Y. Leather. No. 155,727; June 6.
- Jackson & Jackson, Tryon, N. C. Cotton piece goods. No. 162,967; Dec. 26.
- Jackson Laboratories, Indianapolis, Ind. Puncture-sealing composition and preservative for pneumatic tires. No. 154,981; May 16.
- Jackson, Marshall H., Chicago, Ill. Seal presses. No. 154,982; May 16.
- Jackson, Pauline H., Birmingham, Ala. Hair toner. No. 151,516; Feb. 7.
- Jackson, William J., Detroit, Mich. Babies' bathtubs. No. 154,445; Apr. 11.
- Jacob Brothers, Torrington, Conn. Candy and chocolate bars. No. 152,200; Feb. 21.
- Jacobi, Harry E., Baltimore, Md. Chronometers, watches, clocks, wrist watches, and sautoir watches. No. 158,466; Sept. 5.
- Jacobs, Harry, New York, N. Y. Caps for men and children. No. 154,585; Apr. 18.
- Jacobs, Harry L., Chicago, Ill. Mouthpieces for certain named musical instruments. No. 151,391; Jan. 31.
- Jacobs, Jacob M., Paterson, N. J. Medicinal preparation for removing corns, callouses, and warts. No. 150,419; Jan. 3.
- Jacobs, Jacob M., Paterson, N. J. Liniment. No. 150,420; Jan. 3.
- Jacobs & McCafferty, Brooklyn, N. Y., assignors to James A. McCafferty & Sons Manufacturing Company, Inc. White lead. No. 22,066; renewed Nov. 29, 1922.
- Jacobsen, Norman, New York, N. Y. Dolls. Nos. 151,338-9; Jan. 31.
- Jacobson, Albert E., New York, N. Y. Photographic prints. No. 158,992; Sept. 19.
- Jacobson, F., & Sons, New York, N. Y. Dress and work shirts, pyjamas, and nightgowns. No. 156,132; June 13.
- Jacoby, Jacob J., Company Inc., New York, N. Y. Silk piece goods, cotton piece goods, and silk and cotton mixture piece goods. No. 161,175; Nov. 7.
- Jacques Wolf & Co., Passaic, N. J. Remedy for dyspepsia. No. 161,176; Nov. 7.
- Jads Salts Company, Jersey City, N. J. Granular effervescent salt. No. 158,467; Sept. 5.
- Jaeger, Oswald, Baking Co., Milwaukee, Wis. Breads and pastry. No. 155,501; May 30.
- Jaenecke-Ault Company, Newark, N. J. Printing inks. No. 151,392; Jan. 31.
- Jaffe, Feingold & Wiener, New York, N. Y. Men's clothing—namely, overcoats and suits. No. 161,177; Nov. 7.
- Jaffe, Harry, Fitchburg, Mass. Nonalcoholic, maltless beverage and sirup therefor. No. 153,765; Mar. 28.
- Jaffe, Louis, New York, N. Y. Certain sanitary appliances. No. 153,213; Mar. 14.
- Jameelah Jane Corporation, Chicago, Ill. Face powder, cold cream, vanishing cream, rouge. No. 155,729; June 6.
- James, J. W., & Co., East Brady, Pa., assignor to Sterling Products, Incorporated, Wheeling, W. Va. Tonics, bitters, liniments, and sirups. No. 22,567; renewed Feb. 28, 1923.
- James Lees and Sons Company, Bridgeport, Pa. Package outfits containing certain goods. No. 151,839; Feb. 14.
- James Lees and Sons Company, Bridgeport, Pa. Certain articles of clothing. No. 154,604; Apr. 18.
- James, Otho F., doing business as Delta Tours, Washington, D. C. Travel pamphlets, maps, and guidebooks. No. 158,993; Sept. 19.
- Jamesson, Charles F., Boston, Mass. Chemically-treated cloth for polishing metals, hard rubber, and glass. No. 155,728; June 6.
- Jamesson, W. H., Corona, Calif. Fresh oranges, lemons, grapefruit, and tangerines. No. 157,692; Aug. 15.
- Jamestown Metal Desk Company, Jamestown, N. Y. Sheet-metal desks and office tables. No. 153,474; Mar. 21.

- Jamison, Mrs. W. K., et al., trustees. (See Lecar Carbon Company, assignor.)
- Jamison, Walter K., et al., trustees. (See Lecar Carbon Company, assignor.)
- Jamro, Walter, Manchester, N. H. Electrically-operated theft-preventing device. No. 160,893; Oct. 31.
- Janitors Supply House, Baltimore, Md. Soap and soap powders. No. 155,460; May 30.
- Janovici & Co. Inc., New York, N. Y. Artificial or imitation pearls. No. 153,214; Mar. 14.
- Jansen, F. W., Clock Company, Chicago, Ill. Alarm clocks. No. 161,887; Nov. 21.
- Jansen & Pretzfeld, Inc., New York, N. Y. Silks in the piece. No. 150,933; Jan. 10.
- Jansen & Pretzfeld, Inc., New York, N. Y. Silks in the piece. No. 150,942; Jan. 10.
- Jansen & Pretzfeld, Inc., New York, N. Y. Silks in the piece. No. 153,475; Mar. 21.
- Jansen & Pretzfeld, Inc., New York, N. Y. Silks in the piece. Nos. 156,309-11; June 20.
- Jansen & Pretzfeld, Inc., New York, N. Y. Silk in the piece. No. 161,511; Nov. 14.
- Jansen & Pretzfeld, Inc., New York, N. Y. Silk in the piece. Nos. 162,782-5; Dec. 26.
- Japamer Pharmacal Co., St. Louis, Mo. Medicinal preparation for coughs, colds, la grippe, and fever. No. 150,680; Jan. 3.
- Jaques, W. B., Drug Company, Plattsburg, Pa. Preparation for the aid of digestion. No. 153,766; Mar. 28.
- Jaquet, Daniel, Paris, France. Toilet preparations, Certain. No. 155,987; June 13.
- Jaquet, Daniel, trading as Parfums Fontanis, Paris, France. Toilet preparations. No. 157,528; Aug. 8.
- Jaquet, Daniel, trading as Parfums Fontanis, Neuilly sur Seine, Paris, France. Toilet preparations. No. 157,989; Aug. 22.
- Jarvis, Henry C., New York, N. Y. Pills intended as a remedy for constipation and torpid liver. No. 150,421; Jan. 3.
- Jassiano, Zaliel D., New York, N. Y. Razors, pocket-knives, scissors. No. 154,064; Apr. 4.
- Jasper Desk Co., Jasper, Ind. Certain office furniture. No. 155,461; May 30.
- Jasper, Minna A., Rochester, N. Y. Cough medicine. No. 156,312; June 20.
- Jayne, Dr. D., & Son, Philadelphia, Pa. Remedy for diseases of the respiratory organs. No. 152,201; Feb. 21.
- Jean, Chas. A., Anna, Ill. Compound nut butter, apple butter, catsup, and honey. No. 151,517; Feb. 7.
- Jeane, Betty, Incorporated, Los Altos, Calif. Canned fruits and vegetables, nuts in their natural state, honey, jelly, etc. No. 159,279; Sept. 26.
- Jefferson Coal Company, The, Cleveland, Ohio. Coal. No. 157,422; Aug. 1.
- Jefferson, Ida B., Longview, Tex. Certain named medicinal, pharmaceutical, and toilet preparations. No. 158,236; Aug. 29.
- Jeffries, W. P., Company, Los Angeles, Calif. Bond paper. No. 162,642; Dec. 19.
- Jelenko, J. F. & Co., New York, N. Y. Dental appliances. No. 151,150; Jan. 24.
- Jellico Grocery Company, Williamsburg, Ky., and Jellico, Tenn. Baking powder. No. 159,913; Oct. 10.
- Jemielita, Anthony, New York, N. Y. Electrical generators. No. 160,894; Oct. 31.
- Jenkins Bros., Boston, Mass.; New York, N. Y.; and Chicago, Ill. assignor to Jenkins Bros., New York, N. Y. Valves and steam packing. No. 22,335; renewed Jan. 10, 1923.
- Jenkins, George O., Company, Bridgewater, Mass. Leatherboard and counterboard. No. 159,914; Oct. 10.
- Jenkins, John J., Victor, Colo. Antiseptic wash. No. 156,313; June 20.
- Jenkins Manufacturing Company, Bloomfield, N. J. Valve handles or wheels. No. 157,529; Aug. 8.
- Jenkins, Thomas J., Mfg. Corp., Jersey City, N. J. Box or casing adapted to inclose bottles containing milk. No. 154,302; Apr. 11.
- Jenkins Vulcan Spring Co., Richmond, Ind. Automobile springs of the leaf type. No. 162,786; Dec. 26.
- Jenkins & Wagner, Cincinnati, Ohio. Soap. No. 162,276; Dec. 12.
- Jenkinson-Bode Company, Jacksonville, Ill. Canned goods, fruit jams and preserves, coffee, tea, etc. No. 152,315; Feb. 21.
- Jenner, H. S., Rochester and Honeoye Falls, N. Y. Mineral-spring water. No. 158,994; Sept. 19.
- Jennings & Company, Inc., Boston, Mass. Dyestuffs. No. 158,995; Sept. 19.
- Jennings Manufacturing Company, The, Dayton, Ohio. Carving knives and forks, pastry and butcher knives, parers, and cleavers. No. 162,088; Dec. 5.
- Jennings-Sherry Company, Los Angeles, Calif. Certain cleansers, toilet and laundry soaps, and metal polish. No. 157,693; Aug. 15.
- Jensen, Mrs. Otto, Lubec, Me. Ointment. No. 160,216; Oct. 17.
- Jergens, Andrew, Company, The, Cincinnati, Ohio. Face and talcum powders, perfume. No. 153,647; Mar. 28.
- Jerome Thibouville-Lamy, Paris, France; Jerome Thibouville-Lamy & Cie., successor. Musical instruments. Nos. 21,291-2; renewed June 14, 1922.
- Jerome Thibouville-Lamy & Cie., successor. (See Jerome Thibouville-Lamy.)
- Jersey Cereal Food Company, The, Cereal, Pa. Flours, corn meal and flakes, rolled oats, bran, etc. No. 159,626; Sept. 26.
- Jersey City Packing Company, Jersey City, N. J. Lard. No. 20,844; renewed Mar. 15, 1922.
- Jerseyville Nursery, Jerseyville, Ill. Apples. No. 153,089; Mar. 7.
- Jessal Company, The, Brooklyn, N. Y. Cushions. No. 151,819; Feb. 14.
- Jevne, H., Co., Los Angeles, Calif. Candies. No. 154,586; Apr. 18.
- Jewel Phonoparts Company, Chicago, Ill. Diaphragms for phonograph reproducers. No. 158,237; Aug. 29.
- Jewel Tea Company, Inc., Chicago, Ill. Coffee. No. 156,692; July 11.
- Jewett, Bigelow & Brooks, Detroit, Mich. Coal. No. 159,915; Oct. 10.
- Jewett Manufacturing Corporation, Newark, N. J. Apparatus for radiosignaling. No. 156,693; July 11.
- Jewett Manufacturing Corporation, Newark, N. J. Radio signaling. No. 159,916; Oct. 10.
- Jewett Motors, Detroit, Mich. Automobiles. No. 160,540; Oct. 24.
- Jiffy-Andy Toe Protector Co., Allentown, Pa. Toe protectors. No. 150,858; Jan. 10.
- Jiffy Pen Company, Sioux City, Iowa. Writing inks. No. 151,820; Feb. 14.
- Joan Underwear Corporation, New York, N. Y. Silk, satin, crêpe de chine, and textile-fabric underwear for men, women, and children. No. 157,990; Aug. 22.
- Johansen Brothers Shoe Company, St. Louis, Mo. Boots and shoes of leather and combinations. No. 154,592; Apr. 18.
- Johansen Bros. Shoe Company, St. Louis, Mo. Shoes. No. 162,089; Dec. 5.
- Johanson Nils A., Seattle, Wash. Cosmetics or liquid rouge. No. 153,767; Mar. 28.
- John L. Whiting-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. Nos. 160,726-33; Oct. 24.
- John L. Whiting-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for toilet use. No. 160,734; Oct. 24.
- John L. Whiting-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing or applying various liquids, etc. Nos. 160,735-7; Oct. 24.
- John, Robert, New York, N. Y. Prints, pictures, and illustrations. No. 158,996; Sept. 19.
- John, Robert, New York, N. Y. Metal plates carrying photographic reproductions for use in printing. No. 159,917; Oct. 10.
- Johns-Manville Incorporated, New York, N. Y. Brake lining. No. 154,065; Apr. 4.
- Johns-Manville Incorporated, New York, N. Y. Piston and piston-rod packing. No. 159,947; Oct. 10.
- Johnson, Alexander K., Nashville, Tenn. Medicinal preparation for the treatment of the liver, kidneys, nerves, colds, etc. No. 157,991; Aug. 22.
- Johnson, Alfred, Skate Company, Chicago, Ill. Ice skates. No. 161,955; Nov. 28.
- Johnson Automobile Lock Company, Chicago, Ill. Automobile locks. No. 155,895; June 6.
- Johnson, B. M., Manufacturing Co., Jackson, Tenn. Medicinal and toilet preparation. No. 150,422; Jan. 3.
- Johnson, B. M., Manufacturing Co., Jackson, Tenn. Spices and extracts. No. 152,202; Feb. 21.
- Johnson, Boling A., Chicago, Ill. Envelopes, cards, blank books, and paper badges. No. 21,601; renewed Aug. 9, 1922.
- Johnson & Bonnier, Detroit, Mich. Brand of candy. No. 152,435; Feb. 28.
- Johnson, Charles Eneu, & Company, Philadelphia, Pa. Chemical compound for removing ink from printing-rolls, etc. No. 150,423; Jan. 3.
- Johnson, Clarence P., Sheldon, Ill. Nonalcoholic, non-cereal, maltless beverages. No. 150,424; Jan. 3.
- Johnson, Clarence P., Sheldon, Ill. Nonalcoholic, maltless beverage. No. 151,821; Feb. 14.
- Johnson Cowdin & Company, Inc., New York, N. Y. Ribbons and goods in the piece composed of silk. No. 150,313; Jan. 3.
- Johnson, Cowdin & Co., Inc., New York, N. Y. Dresses, negligees, blouses, chemise. No. 154,588; Apr. 18.
- Johnson Educator Food Co., Cambridge, Mass. Sugar wafers. Nos. 162,787-9; Dec. 26.
- Johnson, George J., Cambridge, Mass. Chocolate confectionery. No. 155,991; June 13.
- Johnson, George S., Detroit, Mich. Face cream. No. 151,518; Feb. 7.
- Johnson, Georgeanna T., Mount Holly, N. J. Salve for treatment of cuts, burns, boils, carbuncles, etc. No. 154,303; Apr. 11.
- Johnson, H. A., Co., Boston, Mass. Certain extracts and sirups for making nonalcoholic beverages. No. 152,602; Feb. 28.
- Johnson, James W., New Brunswick, N. J., and New York, N. Y., assignor to Johnson & Johnson. Medicated cotton. Nos. 21,629-30; renewed Aug. 16, 1922.
- Johnson, Janet, New York, N. Y. Hair grower, tonic, and gloss. No. 159,710; Oct. 3.
- Johnson, Jesse C., San Francisco, Calif. Burning equipment and burners. No. 154,829; May 9.

Alphabetical list of registrants of trade-marks—Continued.

- Johnson, Jesse C., San Francisco, Calif. Fuel-oil pumps and crude-fuel-oil pumping equipment. No. 156,531; June 27.
- Johnson, John O., Chicago, Ill. Lawn-grass seed. No. 152,203; Feb. 21.
- Johnson, John O., Chicago, Ill. Lawn grass seed. No. 153,476; Mar. 21.
- Johnson, John O., Chicago, Ill. Lawn-grass seed. No. 155,992; June 13.
- Johnson, John O., Chicago, Ill. Bird gravel. No. 155,993; June 13.
- Johnson & Johnson. (See Johnson, James W., assignor.)
- Johnson & Johnson, New Brunswick, N. J. Baby cream for toilet and nursery. No. 150,425; Jan. 3.
- Johnson & Johnson, New Brunswick, N. J. Toilet soap in liquid and solid form. No. 157,694; Aug. 15.
- Johnson-Layne Coffee Company, The, St. Louis, Mo. Coffee, tea, cocoa, and spices. No. 154,591; Apr. 18.
- Johnson-Layne Coffee Company, The, St. Louis, Mo. Coffee. No. 156,884; July 18.
- Johnson, Le Roy J., Logansport, Ind. Bread. No. 150,426; Jan. 3.
- Johnson-Locke Mercantile Co., The, San Francisco, Calif. Crepe-paper napkins. No. 160,895; Oct. 31.
- Johnson, R. H., & Co., Chicago, Ill. Mayonnaise and tartar-sauce dressing. No. 161,956; Nov. 28.
- Johnson-Randall Co., Traverse City, Mich. Refrigerators and ice boxes. No. 160,542; Oct. 24.
- Johnson, Richard S., Parkersburg, W. Va. Sweeping compounds. No. 162,436; Dec. 12.
- Johnson, Rufus, Lakewood, N. J. Medicines. No. 153,768; Mar. 28.
- Johnson, Sarah A., Quincy, Mass. Hair tonic. No. 150,427; Jan. 3.
- Johnson, Theodore, Quincy, Mass. Furniture polish. No. 154,304; Apr. 11.
- Johnson, W. H., Union City, Tenn. Insecticide. No. 151,822; Feb. 14.
- Johnson, Walter L., Endicott, N. Y. Glass milk bottles. No. 157,114; July 25.
- Johnson, William B., Atlanta, Ga. Bread products. No. 161,512; Nov. 14.
- Johnson, William C., Rhode Island. Mercerized shoe laces. No. 156,694; July 11.
- Johnson, William H., New York, N. Y., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Writing and wrapping paper, pencils, pens, blank books, bill files, etc. No. 162,091; Dec. 5.
- Johnston Dry Goods Co., Birmingham, Ala. Overalls and underwear of woven and textile fabrics. No. 154,446; Apr. 11.
- Johnston Fruit Company, Santa Barbara, Calif. Fresh lemons, oranges, and grapefruit. No. 161,019; Oct. 31.
- Johnston, Huntington, Johnston Orchards, Yakima, Wash. Fresh apples. No. 161,698; Nov. 14.
- Johnston, Wm. R., Mfg. Co., Chicago, Ill. Rear-view mirrors. No. 153,215; Mar. 14.
- Jolie, Inc., New York, N. Y. Certain toilet preparations. Nos. 160,896-7; Oct. 31.
- Jolley, L. G., & Son, Denver, Colo. Preparation for treating rheumatism and purifying the blood. No. 157,268; July 25.
- Jonas, Charles D., doing business as Bartlett & Bickley, London, England. Tobacco pipes. No. 162,790; Dec. 26.
- Jonas, Juliet J., New York, N. Y. Ladies' hats and gowns. No. 156,314; June 20.
- Jones of Binghamton Co. Inc., Binghamton, N. Y. Scales and weighing machines. No. 162,791; Dec. 26.
- Jones, Cecile, New York, N. Y. Cigarettes. No. 152,839; Mar. 7.
- Jones & Baker, New York, N. Y. Publication published weekly. No. 162,522; Dec. 19.
- Jones, D. A., & Co., Bellevue, Idaho. Medicinal preparation for the relief of pain. No. 160,781; Oct. 24.
- Jones, Dr. Medicine Company, Springfield, Mo. Medicinal tonic. No. 153,769; Mar. 28.
- Jones, Elwood, New York, N. Y. Lumber. No. 160,543; Oct. 24.
- Jones, Harry M., Chicago, Ill. Diagnostic instruments for measuring the rate of oxygen consumption. No. 152,437; Feb. 28.
- Jones, James A., Wynnburg, Tenn. Certain named medicinal preparations. No. 154,305; Apr. 11.
- Jones, John H., New York, N. Y. Certain springs, mattresses, and pillows. No. 151,823; Feb. 14.
- Jones, MacNeal and Camp, Incorporated, Chicago, Ill. Electric portable drills. No. 152,840; Mar. 7.
- Jones, Paul, New York, N. Y. Novelty in the nature of a mascot. No. 161,953; Nov. 28.
- Jones, R. J., & Co., New York, N. Y. Passenger pleasure automobiles. No. 159,918; Oct. 10.
- Jones, S. M., Company, The, Toledo, Ohio. Sucker rods. No. 161,700; Nov. 14.
- Jones, Samuel, & Co., Newark, N. J. Certain articles of stationery. No. 155,573; May 30.
- Jones, Samuel, & Company, Newark, N. J. Gummed paper—that is, paper coated on one side with mucilage or gum. No. 157,992; Aug. 22.
- Jones Store Co., The, Wilmington, Del., and Kansas City, Mo. Aluminum cooking utensils. No. 161,787; Nov. 21.
- Jones Superior Machine Company, Chicago, Ill. Certain woodworking machinery. No. 161,954; Nov. 28.
- Jones, Vess, New York, N. Y. Ice cream in either brick form or in bulk. No. 162,523; Dec. 19.
- Jones, Vess, New York, N. Y. Chewing gum. No. 162,524; Dec. 19.
- Jönköpings Och Vulcans Tandsticksfabriksaktiebolag, Jönköping, Sweden. Matches. No. 156,885; July 18.
- Jönköpings Och Vulcans Tandsticksfabriksaktiebolag, Jönköping, Sweden. Matches. No. 157,993; Aug. 22.
- Jönköpings Och Vulcans Tandsticksfabriksaktiebolag, Jönköping, Sweden. Matches. Nos. 161,513-14; Nov. 14.
- Jonson Eureka Combination Spray Co., Yakima, Wash. Insecticide. Nos. 151,824-5; Feb. 14.
- Joon Perfumery Co. (See Powers, Emmett.)
- Joost & Co., Langnau, Switzerland. Cheese of Emmenthal and preserves made of cheese of Emmenthal. No. 159,919; Oct. 10.
- Jordan, Andrew J., St. Louis, Mo. Razors. No. 162,793; Dec. 26.
- Jordan, H. I., Auburn, Me. Golf clubs. No. 160,218; Oct. 17.
- Jordan Marsh Company, Boston, Mass. Correspondence paper, cards, and envelopes therefor. No. 150,859; Jan. 10.
- Jordan Marsh Company, Boston, Mass. Tie-twist silk. No. 151,151; Jan. 24.
- Jordan Marsh Company, Boston, Mass. Fountain pens and lead pencils. No. 153,770; Mar. 28.
- Jordan Marsh Company, Boston, Mass. Ink eradicator. No. 153,771; Mar. 28.
- Jordan Marsh Company, Boston, Mass. Hooks and eyes. No. 157,695; Aug. 15.
- Jordan Marsh Company, Boston, Mass. Hair nets. No. 157,994; Aug. 22.
- Jordan Marsh Company, Boston, Mass. Rotary sifters. No. 160,217; Oct. 17.
- Jordan Marsh Company, Boston, Mass. Chinaware. No. 161,179; Nov. 7.
- Jordan Marsh Company, Boston, Mass. Carpet sweepers. No. 161,789; Nov. 21.
- Jordan Marsh Company, Boston, Mass. Misses', boys', and children's boots and shoes. No. 162,160; Dec. 5.
- Jordan Marsh Company, Boston, Mass. Misses' and women's coats, skirts, dresses, suits, hats, and scarfs, boys' suits, etc. No. 162,525; Dec. 19.
- Jordan Marsh Company, Boston, Mass. Buttons made of glass, bone, wood, etc., and not of precious metal. No. 162,792; Dec. 26.
- Jordan, N. W., Hampton, Va. Medicine used in treatment of piles, burns, and itch. No. 161,180; Nov. 7.
- Jordan, W. H., & F. Jr., Mfg. Co., Philadelphia, Pa. Scientific knitting-machine lubricant. No. 159,391; Sept. 26.
- Joseph Dixon Crucible Company, Jersey City, N. J. Pencils. No. 151,384; Jan. 31.
- Jourion, Alexis, Brussels, Belgium. Perfumery. No. 158,238; Aug. 29.
- Journal Company, Incorporated, Detroit, Mich. Newspaper section. No. 162,273; Dec. 12.
- Jowall Can Works. (See Wall, Joseph.)
- Joyfarm, St. Davids, Pa. Plants, bulbs, roots, and seeds. No. 160,219; Oct. 17.
- Juan & McCormack, New York, N. Y. Condensed milk. No. 152,031; Feb. 14.
- Judd, H. L., Company, New York, N. Y. Metal curtain rods. No. 162,794; Dec. 26.
- Judkins & McCormick Company, New York, N. Y. Satin cloth in piece goods. No. 150,860; Jan. 10.
- Judycki, Carl, Athol, Mass. Locks and padlocks. No. 154,984; May 16.
- Julian & Kokege Co., The, Cincinnati, Ohio. Shoes of leather, fabric, and combined fabric and leather. No. 157,696; Aug. 15.
- Julian Pump & Manufacturing Company, The, Jamestown, N. Y. Self measuring and dispensing pumps. No. 161,791; Nov. 21.
- Julian, Roger, doing business as The Quinoids, Brooklyn, N. Y. Hair tonics, perfumes, etc. No. 158,239; Aug. 29.
- Jung, Geo. H., Co., The, Cincinnati, Ohio. Arch braces. No. 153,216; Mar. 14.
- Jungels Candy Company. (See T. C. Jungels.)
- Jungels, T. C., doing business as Jungels Candy Company, Joliet, Ill. Candy. No. 158,710; Sept. 12.
- Jungewaelter, Frank, St. Louis, Mo. Bread. No. 151,826; Feb. 14.
- Jungewaelter, Frank, St. Louis, Mo. Potato rye bread. No. 151,827; Feb. 14.
- Junior Coffee Co., The, Fort Worth, Tex. Coffee. No. 162,526; Dec. 19.
- Junoform Company, The, Philadelphia, Pa. Catamenial bandages. No. 153,217; Mar. 14.
- Justa Manufacturing Company, Oklahoma, Okla. Rubber patches for tires and all rubber articles. No. 159,920; Oct. 10.
- Justin, H. J., & Sons, Nocona, Tex. Leather boots and shoes. No. 161,181; Nov. 7.
- Juvenile Shoe Corporation of America, The, Carthage, Mo. Boots and shoes of leather. No. 154,590; Apr. 18.
- Juvenile Shoe Corporation of America, The, Carthage, Mo. Leather boots and shoes. No. 158,468; Sept. 5.
- K. H. Co., Canton, Ohio. Preparation for the treatment of eczema. No. 154,076; Apr. 4.
- K. & K. Panama Hat Company, St. Louis, Mo. Straw hats for men. No. 161,701; Nov. 14.

- K-W Shoe Co., The, Chicago, Ill. Men's leather shoes. No. 158,724; Sept. 12.
- Kabo Company, The, Chicago, Ill. Brassières and corsets. No. 160,220; Oct. 17.
- Kabushiki Kaisha Hirao Sampei Shoten, Tokyo, Japan. Toilet preparations. No. 161,793; Nov. 21.
- Kade's, Dr., Medizinisch-Pharmazeutisches Fabrikations- & Exportgeschäft Dr. Franz Lutze, Berlin, Germany. Pharmaceutical products especially for asthma. No. 157,347; Aug. 1.
- Kaempfer's Incorporated, Chicago, Ill. Mixture or combination of seeds used as a food for birds. No. 152,204; Feb. 21.
- Kahga Importing Company, New York, N. Y. Silk piece goods. No. 155,157; May 16.
- Kahlbaum, Johannes, Berlin, Germany, assignor to The Chemical Foundation Incorporated. Anaesthetics or hypnotics. No. 20,460; renewed Dec. 15, 1921.
- Kahlenberg, Louis, Two Rivers, Wis. Suture material used for sewing up wounds. No. 158,998; Sept. 19.
- Kahn, William, doing business as Kahn's Perfumery, St. Louis, Mo. Certain named toilet preparations. No. 159,392; Sept. 26.
- Kahn's Perfumery. (See Kahn, William.)
- Kahookano, John K., Rawlins, Wyo. Smoking pipes. No. 161,515; Nov. 14.
- Kain, Thomas D., Chicago, Ill. Chemical exterminators for rats, mice, and vermin. No. 161,182; Nov. 7.
- Kakarakis Brothers, Chicago, Ill. Ripe olives. No. 154,594; Apr. 18.
- Kalamazoo Corset Company, Kalamazoo, Mich. Corsets. No. 152,087; Feb. 14.
- Kalamazoo Paper Company, Kalamazoo, Mich. Writing paper. No. 157,423; Aug. 1.
- Kalamazoo Sled Company, The, Kalamazoo, Mich. Hand sleds. Nos. 154,066-7; Apr. 4.
- Kalamazoo Sled Company, The, Kalamazoo, Mich. Hand sleds. No. 158,711; Sept. 12.
- Kalish, Julius, Inc., New York, N. Y. Powder used as an insect destroyer. No. 151,520; Feb. 7.
- Kalish Pharmacy, New York, N. Y. Toilet preparations—namely, nail polishes and cleansers. No. 152,841; Mar. 7.
- Kal-Kal Laboratories, Inc., Buffalo, N. Y. Salves to be used for wounds, sores, skin trouble, etc. No. 154,068; Apr. 4.
- Kallberg, Anna M., Minneapolis, Minn. Cleaner and polisher. No. 155,462; May 30.
- Kämmer & Reinhardt A. G., Waltershausen, Gotha, Germany. Dolls and their parts. No. 157,995; Aug. 22.
- Kämmer & Reinhardt, A. G., Waltershausen, Germany. Toys and playthings. No. 160,544; Oct. 24.
- Kamp & Dutton, St. Louis, Mo. Medical preparation or ointment. No. 157,424; Aug. 1.
- Kandle, J. Harry, Elmer, N. J. Seed potatoes. No. 160,545; Oct. 24.
- Kane Chemical Company, Kane, Ill. Powdered deodorant and disinfectant. No. 154,069; Apr. 4.
- Kane Sales Company, The, Centennial, Wash. Pneumatic shock absorbers. No. 160,546; Oct. 24.
- Kane, Thomas B., Philadelphia, Pa. Nonalcoholic, non-cereal, maltless beverages and sirups for making same. No. 150,861; Jan. 10.
- Kane, Thomas B., Philadelphia, Pa. Nonalcoholic, non-cereal, maltless beverage and sirup for making same. No. 151,828; Feb. 14.
- Kanofsky, Raymond, doing business as Radio Builder Pub. Co., New York, N. Y. Magazines. No. 162,279; Dec. 12.
- Kanouse & Foote, Oakland, Calif. Bearings, pistons, piston, wrist, and fan-pulley pins, gears, etc. No. 159,393; Sept. 26.
- Kansas City Fuel Oil Company, Kansas City, Mo. Gasoline, naphtha, kerosene, distillate, fuel oil, etc. No. 153,932; Mar. 28.
- Kansas City Milling Co., The, Kansas City, Mo. Wheat flour. No. 159,394; Sept. 26.
- Kansas City Wall Paper Co., Kansas City, Mo. Dry, ready-mixed, and paste paints, putty, linseed oil, turpentine, etc. No. 162,795; Dec. 26.
- Kansas Live Stock Association, Topeka, Kans. Semi-monthly periodical. No. 162,280; Dec. 12.
- Kantas, Alexander, Pittsburgh, Pa. Antiseptic liquid. No. 161,183; Nov. 7.
- Kaplan, Scheuerle & Doyno, New York, N. Y. Hats and caps. No. 158,999; Sept. 19.
- Kaplan, Simon, New York, N. Y. Hosiery. No. 157,116; July 25.
- Kaplan, Tobias, New York, N. Y. Men's dress shirts. No. 154,447; Apr. 11.
- Kapo Manufacturing Company, (now by change of name Kapo Manufacturing Corporation), assignor to Kapo Manufacturing Company, Boston, Mass. Annual catalogues. No. 153,477; Mar. 21.
- Kappler-Fox Foundry Co., The, Philadelphia, Pa. Gas, coal, and oil. No. 154,070; Apr. 4.
- Kappus, John M., trading as United Service Distributors, Cleveland, Ohio. Laxative tablets. No. 157,348; Aug. 1.
- Karana, Andy, Johnstown, Pa. Medicine for rheumatism. No. 161,184; Nov. 7.
- Karlok Manufacturing Company, Newark, N. J. Locks for automobile steering mechanism. No. 155,246; May 23.
- Karp Brothers, Inc., New York, N. Y. Hair nets of human hair. No. 152,842; Mar. 7.
- Karp, Joseph H., New York, N. Y. Cake, bar, paste, liquid, and powder soaps. No. 154,756; Apr. 18.
- Karp, Joseph H., New York, N. Y. Hair bleach. No. 158,469; Sept. 5.
- Käseexport A. G. Goldbach (Emmenthal), Goldbach, near Burgdorf, Switzerland. Cheese and cheese preserve. No. 152,851; Mar. 7.
- Kasnick, Anton F., doing business as Classo Album Company, Elmhurst, Ill. Phonograph-record albums. No. 158,240; Aug. 29.
- Kasser, Herman, Philadelphia, Pa. Malt extract. No. 152,436; Feb. 28.
- Katchall Mouse Trap Manufacturing Co., Greenville, Miss. Mousetraps. No. 152,438; Feb. 28.
- Katoff, Irving H., New York, N. Y. Preparation for treatment of foot ailments. No. 157,349; Aug. 1.
- Katz & Davidson, New York, N. Y. Outer shirts. No. 152,088; Feb. 14.
- Katz, Harry, New York, N. Y. Chiffon-velvet piece goods. No. 154,071; Apr. 4.
- Katz, Harry, New York, N. Y. Certain merchandise consisting of velvet in piece goods. No. 154,306; Apr. 11.
- Katz & Ogush, Inc., New York, N. Y. Certain named jewelry. No. 156,695; July 11.
- Katz & Ogush, Inc., New York, N. Y. Watches and watch movements. No. 158,470; Sept. 5.
- Katz, S. & N., Baltimore, Md. Watches. No. 162,281; Dec. 12.
- Kauffman, Edwin N., Mahaffey, Pa. Knee pads for miners. No. 155,732; June 6.
- Kaufman, Adam, doing business as Eclipse Timer Mfg. Co., Milwaukee, Wis. Spark timers for internal-combustion engines. No. 162,282; Dec. 12.
- Kaufman Bros., New York, N. Y. Hair nets. No. 161,516; Nov. 14.
- Kaufman, Chas., & Bros., Chicago, Ill. Men's suits. No. 159,000; Sept. 19.
- Kaufman, Joseph, New York, N. Y. Breakfast cereal food. No. 156,484; June 20.
- Kaufman Manufacturing Co., assignor to Gaiety Garment Company, Tacoma, Wash. Kitchenette dresses, house dresses, etc. No. 158,712; Sept. 12.
- Kaufman, Matthew, New York, N. Y. Hair nets. No. 152,439; Feb. 28.
- Kaufman-Straus Co., Louisville, Ky. Skin and massage lotions and creams, etc. No. 152,205; Feb. 21.
- Kaufman-Straus Co., Louisville, Ky. Perfumes, toilet waters, skin lotions, creams, &c. No. 159,921; Oct. 10.
- Kaufmann, Charles, & Sons, Santa Ana, Calif. Electric spot lights. No. 155,731; June 6.
- Kavanaugh, George W., Inc., New York, N. Y. Tapes and braids. No. 151,152; Jan. 24.
- Kay, Henry, New York, N. Y. Mouth wash. Nos. 154,072-3; Apr. 4.
- Kaye Manufacturing Company, Detroit, Mich. Toy vacuum cleaner and dust bags. No. 150,862; Jan. 10.
- Kayser, Julius, & Co., New York, N. Y. Stockings. Nos. 158,713-14; Sept. 12.
- Keane, Horace, Aeroplanes, Inc., New York, N. Y. Certain aeroplanes and parts thereof. No. 157,117; July 25.
- Keane, Horace, Aeroplanes, Inc., New York, N. Y. Tractor and carburetors. No. 157,118; July 25.
- Kearney, George F., Detroit, Mich. Metal polish. No. 152,843; Mar. 7.
- Kee Lox Manufacturing Company, Rochester, N. Y. Typewriter ribbons. No. 154,198; Apr. 4.
- Kee Lox Manufacturing Company, Rochester, N. Y. Carbon paper. No. 155,336; May 23.
- Kee Lox Manufacturing Co., Rochester, N. Y. Carbon paper. Nos. 158,715-17; Sept. 12.
- Kee Lox Manufacturing Company, Rochester, N. Y. Carbon paper and typewriter ribbons. No. 158,718; Sept. 12.
- Kee Lox Manufacturing Company, Rochester, N. Y. Carbon paper. No. 158,719; Sept. 12.
- Keeler, F. M., Co., The, Boston, Mass. Hair nets. No. 156,315; June 20.
- Keen Kola Manufacturing Company, Dallas, Tex. Non-alcoholic, maltless beverage and sirups for making same. No. 152,032; Feb. 14.
- Kcene, Charles A., New York, N. Y. Artificial pearls, necklaces, bracelets, brooches, etc. Nos. 158,241-2; Aug. 29.
- Keep Klean Cover Co., St. Louis, Mo. Automobile seat covers. No. 160,547; Oct. 24.
- Keesey Hosiery Company, Mount Holly, N. J. Hosiery of all kinds. No. 157,119; July 25.
- Keet & Rountree Dry Goods Company, Springfield, Mo. Overalls, work shirts, jumpers, ducks coats, etc. No. 161,185; Nov. 7.
- Keever Starch Co., The, Columbus, Ohio. Laundry starch. No. 152,206; Feb. 21.
- Keiter-Fry Manufacturing Company Inc., Lockport, N. Y. Powder puffs. No. 151,153; Jan. 24.
- Keith Accessories Company, Cape Girardeau, Mo. Reserve gasoline tanks. No. 161,702; Nov. 14.

Alphabetical list of registrants of trade-marks—Continued.

- Keith Brothers & Co., Chicago, Ill. Men's hats, caps, gloves, and mittens of leather, fabric, and wool. No. 154,595; Apr. 18.
- Keith-Landis Corporation, Chicago, Ill. Clocks and watches. No. 158,471; Sept. 5.
- Keller, Albert P., New Orleans, La. Writing inks. No. 151,829; Feb. 14.
- Keller, B. A., Newark, N. J. Eyeglasses, temples, and eyeglass bridges and nose pieces for same. No. 155,247; May 23.
- Keller, Edgar T., Indianapolis, Ind. Liniment for rheumatism, cuts, burns, etc. No. 154,074; Apr. 4.
- Keller, L. H., & Co. Inc., New York, N. Y. Watch springs. No. 152,603; Feb. 28.
- Kelley, Grant S., Inc., New York, N. Y. Woolen piece goods. No. 150,430; Jan. 3.
- Kelley, Henry C., Company, New York, N. Y. Cords, twine, ropes, lines. No. 154,075; Apr. 4.
- Kelley & Corwin, New York, N. Y. Toy telephones. No. 159,395; Sept. 26.
- Kellogg & Bulkeley Company, The, Hartford, Conn. Flat papers—writing, bond, and ledger. No. 153,478; Mar. 21.
- Kellogg, H., & Sons, Philadelphia, Pa. Grape juice, ginger ale, sarsaparilla, etc. No. 162,092; Dec. 5.
- Kellogg, M. W., Company, The, New York, N. Y. Steel plates. No. 154,985; May 16.
- Kelly, Busy Corner Company, The, Middletown, Conn. Mayonnaise dressing. No. 151,830; Feb. 14.
- Kelly, John A., Great Falls, Mont. Salve or preparation for throat and lung trouble. No. 156,316; June 20.
- Kelly, John H., Bellingham, Wash. Preparation adapted for cleaning glass and preventing accumulation of mist, rain, and frost thereon. No. 151,831; Feb. 14.
- Kelly, John, Inc., Rochester, N. Y. Women's shoes. No. 156,133; June 13.
- Kelly-Springfield Tire Company, New York, N. Y. Resilient vehicle tires. No. 155,463; May 30.
- Kelmet Corporation, New York, N. Y. Toys. No. 156,886; July 18.
- Kemp & Beatley, Inc., New York, N. Y. Tablecloths, doilies, and mat covers. No. 161,517; Nov. 14.
- Kemp & Beatley Inc., New York, N. Y. Embroidery yarns. No. 162,796; Dec. 26.
- Kemp, C. M., Manufacturing Co., The, Baltimore, Md. Gas apparatus and gas burners. No. 159,922; Oct. 10.
- Kendall Medicine Company, Shelby, N. C. Preparation for the purpose of coloring gray and faded hair. No. 161,703; Nov. 14.
- Kendall Products Corporation, Wilmington, Del., and New York, N. Y. Cleansing fluids for fabrics. No. 155,464; May 30.
- Kendall Products Corporation, New York, N. Y. Soap powders. No. 159,001; Sept. 19.
- Kendall Products Corporation, New York, N. Y. Detergent preparations—namely, soap products. No. 159,396; Sept. 26.
- Kendall Products Corporation, New York, N. Y. Soap products. No. 162,283; Dec. 12.
- Kenilworth Mfg. Co., Newark, N. J. Horn buttons. No. 162,798; Dec. 26.
- Kenilworth Manufacturing Co. Inc., New York, N. Y. Blouses, bloomers, skirts, knickers, underbloomers, overalls, etc., for females. No. 159,002; Sept. 19.
- Kenilworth Manufacturing Co. Inc., New York, N. Y. Knickers. No. 161,186; Nov. 7.
- Kenilworth Manufacturing Co., Inc., New York, N. Y. Knickers, bloomers, middie blouses, etc., for females. No. 161,518; Nov. 14.
- Kenilworth Manufacturing Co. Limited, The, London, England. Certain jointings and packings for engines. No. 160,548; Oct. 24.
- Kennedy, Ernest N., London, England. Pocketknives. No. 153,218; Mar. 14.
- Kennedy, F. J., Charlotte, N. C. Vegetable compound used as a general tonic and blood medicine. No. 156,317; June 20.
- Kennedy, N. A., Supply Co., Kansas City, Mo. Weighing scales. No. 153,772; Mar. 28.
- Kennedy, Robert S., New York, N. Y. Trade journal published quarterly. No. 159,003; Sept. 19.
- Kensington Bulletin, The, Philadelphia, Pa. Weekly publication. No. 151,691; Feb. 14.
- Kent Storage Company, Grand Rapids, Mich. Condensed milk and butter. No. 161,519; Nov. 14.
- Kentucky Tire Pump Co., Madisonville, Ky. Tire pumps, grease guns, etc. No. 152,844; Mar. 7.
- Ken-Wel Sporting Goods Co., Gloversville, N. Y. Sporting goods. No. 150,431; Jan. 3.
- Ken-Wel Sporting Goods Company, Gloversville, N. Y. Combination package of boys' athletic goods. No. 160,898; Oct. 31.
- Kepesh, Martin, New York, N. Y. Hair nets. No. 152,441; Feb. 28.
- Kerbel, Max, Brooklyn, N. Y. Tooth paste. No. 154,307; Apr. 11.
- Kerlin, Arthur E., Center Hall, Pa. Laying mash, starting and growing fowls, hatching eggs, and baby chickens. No. 159,397; Sept. 26.
- Kerlin, Harry J., Altoona, Pa. Certain household furniture. No. 161,020; Oct. 31.
- Kerlow Steel Flooring Company, New York, N. Y. Steel flooring, ventilator gratings, grids, and grilles. No. 159,712; Oct. 3.
- Kern, Charles J., Buffalo, N. Y., assignor to New Era Toy Manufacturing Company, Inc., Cherry Creek, N. Y. Toys—namely, doll wagons, teeter toys, etc. No. 161,957; Nov. 28.
- Keron, Frank H., doing business as The Keron Company, Central Falls, R. I. Beverage sold as soft drink and sirup for making same. No. 161,704; Nov. 14.
- Keron Company, The. (See Keron, Frank H.)
- Kerrick, Walter B., Los Angeles, Calif. Vehicle wheels. No. 160,549; Oct. 24.
- Kershaw, Nelson, Clifton Heights, Pa. Bath towels. No. 161,520; Nov. 14.
- Kersten, Samuel, Chicago, Ill. Faucets. No. 153,773; Mar. 28.
- Kessler Edwin, New York, N. Y. Girls' intermediates', juniors', and misses' dresses. No. 155,733; June 6.
- Ketels, John F., doing business as Amber-o-latum Laboratory, Springfield, Ore. Ointment for colds, croup, etc. No. 161,187; Nov. 7.
- Kewaskum Aluminum Company, Kewaskum, Wis. Certain aluminum kitchen utensils. No. 161,521; Nov. 14.
- Key Kno Company. (See White, Willard.)
- Keyless Auto Clock Company, New York, N. Y. Clocks. No. 156,596; July 4.
- Keys Piston Ring Company, St. Louis, Mo. Piston rings. No. 159,627; Sept. 26.
- Keystone Driller Company, Beaver Falls, Pa. Certain well-drilling machines and tools, steam engines, etc. No. 152,846; Mar. 7.
- Keystone Flour Co. Incorporated, Philadelphia, Pa. Wheat flour. No. 160,550; Oct. 24.
- Keystone Fruit Products Company, Cincinnati, Ohio. Beverages sold as soft drinks, flavors and extracts for making same. No. 160,551; Oct. 24.
- Keystone Fruit Products Company, Cincinnati, Ohio. Sirup for use at soda fountains for making beverages. No. 162,093; Dec. 5.
- Keystone Hair Net Imp. Corp., New York, N. Y. Hair nets. No. 150,863; Jan. 10.
- Keystone Hair Net Imp. Corp., New York, N. Y. Hair nets. No. 150,943; Jan. 10.
- Keystone Lantern Co., Philadelphia, Pa. Child's self-propelled vehicle. No. 152,845; Mar. 7.
- Keystone Lubricating Company, Philadelphia, Pa. Lubricants. No. 154,986; May 16.
- Keystone Lubricating Company, Philadelphia, Pa. Lubricants consisting of oils and greases. No. 154,987; May 16.
- Keystone Mfg. Co., Boston, Mass. Toy motion-picture machine. No. 153,219; Mar. 14.
- Keystone Publishing Company, The, Philadelphia, Pa. Monthly magazine devoted to jewelry. No. 157,530; Aug. 8.
- Keystone Sanitary Supply Company, Greensburg, Pa. Unimpregnated dusters. No. 154,794; May 9.
- Keystone Steel & Wire Company, Peoria, Ill. Wire fencing and barb wire. No. 159,398; Sept. 26.
- Keystone Varnish Company, Brooklyn, N. Y. Enamel paints and varnish. No. 159,004; Sept. 19.
- Keystone Watch Case Company, The. (See Crescent Watch-Case Company, assignor.)
- Khan, John B., Homestead, Pa. Medicine for the treatment of diseases of the blood, nerves, etc. No. 150,432; Jan. 3.
- Khouri, Abraham, Manchester, N. H. Medicine for menorrhagia, metrorrhagia, backache, and menstrual fever. No. 159,005; Sept. 19.
- Kiddle Garment Co., Inc., New York, N. Y. Boys' wash suits and girls' dresses. No. 152,442; Feb. 28.
- Kiehle, Louis C., Baltimore, Md. Combustible oil for intensifying liquid fuel used in internal-combustion engines. No. 150,662; Jan. 3.
- Kielsmeier Company, Manitowoc, Wis. Dairy products—viz., butter. No. 159,923; Oct. 10.
- Kienzle Uhrenfabriken Kommanditgesellschaft, Schwenningen-on-Neckar, Germany. Alarm clocks, alarm watches, and watches. No. 156,696; July 11.
- Kiesling, Charles E., Canton, Ohio. Medicinal tablets for headache, neuralgia, colds, etc. No. 152,207; Feb. 21.
- Kihn, August E., doing business as Injun Washing Powder Co., Philadelphia, Pa. Washing powder. No. 159,006; Sept. 19.
- Kilchenmann Frères, La Chaux-de-Fonds, Switzerland. Watches and parts of watches. No. 158,221. Aug. 29.
- Killian, W. H., Co., The, Baltimore, Md. Canned food-stuffs. No. 155,994; June 13.
- Kil-Nock Company. (See Rose, John F., assignor.)
- Kimball, Willard A., New York, N. Y. Men's and boys' clothing—namely, suits, trousers, and overcoats. No. 150,433; Jan. 3.
- Kimberly Club Sherry Co., New York, N. Y. Nonalcoholic, noncereal, maltless beverage sold as soft drinks and sirup for same. No. 158,580; Sept. 5.
- Kimble Glass Company, Chicago, Ill., and Vineland, N. J. Graduated chemical and laboratory glassware. Nos. 162,799-800; Dec. 26.
- Kimmerle Bros., San Francisco, Calif. Tools for handling disabled vehicles—viz., wrecking jacks, etc. No. 150,864; Jan. 10.

- King Blair Co., Detroit, Mich. Men's and youths' suits and overcoats. No. 154,597; Apr. 18.
- King, E. & F., & Company, Incorporated, Boston, Mass. China clay and plain and colored bases for dressing, whitening, and fulling compounds. No. 160,552; Oct. 24.
- King, Elmer H., Boston, Mass. Woolen, worsted, mohair piece goods, etc. No. 150,434; Jan. 3.
- King Feature Syndicate, Inc., New York, N. Y. Cartoons. No. 162,284; Dec. 12.
- King-Ferree Co. Inc., Greensboro, N. C. Cigars. No. 157,996; Aug. 22.
- King, H. C., & Sons, Battle Creek, Mich. Seeds and grains. No. 160,553; Oct. 24.
- King, John P., Manufacturing Co., The, Augusta, Ga. Cotton piece goods. No. 156,573; June 27.
- King, John W., Phoenix, Ariz. Honey. No. 154,598; Apr. 18.
- King, Joseph S., Brooklyn, N. Y. Medicines for treatment of certain named ailments. No. 150,435; Jan. 3.
- King, Julius, Optical Co., New York, N. Y. Goggles and eye protectors. No. 162,527; Dec. 19.
- King, Leslie L., Columbus, Ohio. Toy banks. No. 157,997; Aug. 22.
- King Manufacturing Company, The, St. Joseph, Mo. Electric lamps and electric-lamp fixtures. No. 152,847; Mar. 7.
- King, Rena P., Shelby, Miss. Certain toilet preparations. No. 151,521; Feb. 7.
- Kingman, Russell B., assignor to The Chore Utensils Corporation, Orange, N. J. Scouring cloths. No. 155,734; June 6.
- Kings Specialty Co., Fort Wayne, Ind. Preparation used in sterilizing infected dentine. No. 150,436; Jan. 3.
- Kingsley, Charles B., Northampton, Mass. Remedy for the cure of headache, colds, neuralgia, etc. No. 21,051; renewed Apr. 26, 1922.
- Kingsley, Lewis W. (See Munsell, E., Kingsley, and Brooks.)
- Kingsley Medicine Shop, Liberty, Ind. Preparation for the relief of foot troubles. No. 162,161; Dec. 5.
- Kingsley and Smith, Hartford, Conn. Butter. No. 153,597; Mar. 21.
- Kingwell Bros., San Francisco, Calif. Certain castings. No. 152,443; Feb. 28.
- Kio Company, The, New York, N. Y. Cleaning and renovating compounds. No. 162,528; Dec. 19.
- Kirbarine Co., New York, N. Y. Medicinal preparation and hair restorer. No. 152,208; Feb. 21.
- Kirk, George W., Jasonville, Ind. Pile preparation. No. 153,774; Mar. 28.
- Kirk, James S., & Company, Chicago, Ill. Soap. No. 152,444; Feb. 28.
- Kirk Partners & Forestbrook, Ltd., Belfast, Ireland. Linen and hemp and union piece goods. No. 152,848; Mar. 7.
- Kirk, Royden C., doing business as Klever Kraft Company, Waltham, Mass. Hook corners for hanging pictures, etc. No. 159,399; Sept. 26.
- Kirkhart Electrical Co., The, Elkhart, Kans. Electrolytes. No. 159,713; Oct. 3.
- Kirkpatrick, John R., Jr., Atlanta, Ga. Preparation for use internally in the treatment of certain named ailments. No. 151,522; Feb. 7.
- Kirshner, Nathaniel M., Los Angeles, Calif. Beads used as jewelry. No. 162,285; Dec. 12.
- Kissel Motor Car Company, The, Hartford, Wis. Automobiles. No. 153,220; Mar. 14.
- Kitchell, Joseph G., New York, N. Y. Chewing gum. No. 156,887; July 18.
- Kitchell, Joseph G., assignor to Apple Gum Company, Inc., New York, N. Y. Chewing gum. No. 156,888; July 18.
- Kitchen, George L., doing business as Hemolene Chemical Co., St. Louis, Mo. Tooth paste and mouth washes. No. 161,188; Nov. 7.
- Kitchen Products Co., Brooklyn, N. Y. Stove polish. No. 151,832; Feb. 14.
- Kitchens, Nellie S., Los Angeles, Calif. Anointing oil and hair restorative. No. 154,765; May 2.
- Klaine, F. A., Company, The, Cincinnati, Ohio. Coal, coke, wood, and gas stoves. No. 160,221; Oct. 17.
- Klar, Adolph, New York, N. Y. Hair nets. Nos. 150,865-9; Jan. 10.
- Klar, Adolph, New York, N. Y. Hair nets. No. 152,089; Feb. 14.
- Klar, Adolph, New York, N. Y. Hair nets. No. 157,697; Aug. 15.
- Klarit Limited, Liverpool, England. Substance for use in manufacture for decolorization. No. 154,077; Apr. 4.
- Klatscher & Lorenz, Inc., New York, N. Y. Hops. No. 156,318; June 20.
- Klatscher & Lorenz, Inc., New York, N. Y. Body sugar for beer coloring and flavoring. No. 157,351; Aug. 1.
- Klatscher & Lorenz, Inc., New York, N. Y. Corn grits and flakes, barley, and malt. No. 159,400; Sept. 26.
- Klatte Coffee Company, Terre Haute, Ind. Coffee. No. 158,720; Sept. 12.
- Klavon, James J., Pittsburgh, Pa. Corn remedies. No. 155,465; May 30.
- Klavon, James J., Pittsburgh, Pa. Liniments. No. 156,319; June 20.
- Klee-Nup Mfg. Co., Hancock, Mich. Cleaning compound. No. 155,735; June 6.
- Kleimer, Israel S., doing business as Knickerbocker Products Co., Brooklyn, N. Y. Beverages sold as soft drinks. No. 162,801; Dec. 26.
- Klein, Emanuel, New York, N. Y. Pure-fat salad oil and cooking oil. No. 160,899; Oct. 31.
- Klein, Jos., Company, The, New York, N. Y. Boys' suits. No. 161,522; Nov. 14.
- Klein Manufacturing Company, The, Cleveland, Ohio. Paints for wood, iron, tin, etc. No. 150,870; Jan. 10.
- Kleinert, I. B., Rubber Company, New York, N. Y. All-rubber baby pants and waders, etc. No. 152,445; Feb. 28.
- Kleinert, I. B., Rubber Company, New York, N. Y. Women's undergarments and sanitary pantalettes. No. 157,120; July 25.
- Kleinert, I. B., Rubber Company, New York, N. Y. Baby pants. Nos. 161,189-90; Nov. 7.
- Klemm, A. M., & Son, Winter Haven, Fla. Fresh citrus fruit. No. 162,094; Dec. 5.
- Klemm, Wm. W., Chicago, Ill. Filters, coolers, and bottle washers. No. 155,574; May 30.
- Klemperer, Gustav, New York, N. Y. Hair nets. No. 155,158; May 16.
- Klemperer, Gustav, trading as Cosmos Trading Company, New York, N. Y. Hair nets. No. 157,531; Aug. 8.
- Klemperer, Gustav, doing business as Cosmos Trading Company, New York, N. Y. Hair nets. No. 162,802; Dec. 26.
- Klens-Zol Co., The, Glenn, Mich. Automobile and furniture cleaner and polish. No. 150,437; Jan. 3.
- Klenzal Co. Inc., The, Washington, D. C. Paste cleanser for carpets, rugs, and other fabrics. No. 158,721; Sept. 12.
- Klever Kraft Company. (See Kirk, Royden C.)
- Kline Apparel Company, St. Louis, Mo. Certain articles of ladies' wearing apparel. No. 156,134; June 13.
- Kline, Fred J., Long Island City, N. Y. Paper clips. No. 155,995; June 13.
- Kline, Fred J., Long Island City, N. Y. Paper fasteners, covers, and folders for binding and holding papers together, desk files, etc. Nos. 155,996-7; June 13.
- Kline, Nick W., Los Angeles, Calif. Salve. No. 152,209; Feb. 21.
- Klinger, F. W., and Langbein Co., Philadelphia, Pa. Fishing-fly books. No. 160,222; Oct. 17.
- Kling-Tite Products Co., Chicago, Ill. Roof cement. No. 155,736; June 6.
- Klinker Manufacturing Co., Cleveland, Ohio. Certain toilet preparations. No. 154,078; Apr. 4.
- Klippert, George C., Chemical Co., Mount Vernon, N. Y. Ear cone adapted to receive medicine and be placed in the ear for healing effects. No. 154,988; May 16.
- Klopp & Bartlett Company, Omaha, Nebr. Certain paper and stationery. No. 152,849; Mar. 7.
- Klothes Shoppe, Birmingham, Ala., and Louisville, Ky. Men's, youths', and boys' coats, vests, trousers, and overcoats, men's hats, women's suits, etc. No. 157,814; Aug. 15.
- Klute, Henry L., San Francisco, Calif. Preserved figs. No. 154,599; Apr. 18.
- Knap, Edwin W., New York, N. Y. All kinds of fresh fruits and vegetables, hay, corn, and wheat. Nos. 159,401-2; Sept. 26.
- Knapp Manufacturing Company, Lebanon, N. H. Receptacles for washing and cleaning solutions. No. 162,282; Dec. 12.
- Knee 4 Medicine Company, Savannah, Ga. Medicinal preparations. No. 157,352; Aug. 1.
- Knickerbocker Case Company, Chicago, Ill. Cases and bags for fishing tackle. No. 153,377; Mar. 14.
- Knickerbocker Case Company, Chicago, Ill. Cases and bags made of leather, fiber, etc., for fishing tackle. Nos. 155,466-7; May 30.
- Knickerbocker Case Company, Chicago, Ill. Cases and bags for holding merchandise samples, instruments, and tools. No. 158,350; Aug. 29.
- Knickerbocker Case Company, Chicago, Ill. Cases and bags for holding fishing material. No. 159,403; Sept. 26.
- Knickerbocker Chocolate Co., New York, N. Y. Prepared edible chocolate. No. 159,194; Sept. 19.
- Knickerbocker Products Co. (See Kleiner, Israel S.)
- Knight Engineering & Sales Co., Los Angeles, Calif. Electric hand drills. No. 153,221; Mar. 14.
- Knight, Joseph M., Elfers, Fla. Fresh oranges, grapefruit, lemons, limes, and all citrus fruits. No. 151,833; Feb. 14.
- Knight, Maurice A., East Akron, Ohio. Acid-proof chemical stoneware. No. 155,468; May 30.
- Knight, Maurice A., East Akron, Ohio. Acid-proof chemical stoneware. No. 159,195; Sept. 19.
- Knight, R. E., Atlanta, Ga. Antiseptic healing powder. No. 153,775; Mar. 28.
- Knights of Columbus, New Haven, Conn. Monthly magazines. No. 153,479; Mar. 21.
- Knipe Bros., Inc., Haverhill, Mass. Leather boots and shoes. No. 159,007; Sept. 19.
- Knitwear Mfg. Co. Inc., New York, N. Y. Sweaters. No. 157,815; Aug. 15.
- Knobby Products Co. (See Russell, Frank.)
- Knoch, Max, New York, N. Y. Cigarettes. No. 154,079; Apr. 4.
- Knothe Brothers Co., Inc., New York, N. Y. Waist belts. No. 157,816; Aug. 15.

Alphabetical list of registrants of trade-marks—Continued.

- Knothe Brothers Co. Inc., New York, N. Y. Pyjamas. No. 161,191; Nov. 7.
- Knox Motors Company, Springfield, Mass. Internal-combustion engines and parts thereof and certain accessories therefor. No. 157,121; July 25.
- Knox Motors Company, Springfield, Mass. Electric dish-washing machines. No. 158,472; Sept. 5.
- Kob & Kaplan, New York, N. Y. Hosiery, underdrawers, undershirts, and union suits. No. 150,871; Jan. 10.
- Koch, Charles, Hoboken, N. J. Beverages sold as soft drinks and sirups for making the same. No. 160,554; Oct. 24.
- Kochman, Louis B., New York, N. Y. Baking powder. No. 150,438; Jan. 3.
- Kodyte Laboratories, The, New York, N. Y. Carbon-removing compound. No. 151,523; Feb. 7.
- Koehring Company, Milwaukee, Wis. Concrete mixers and distributing machines, loading skips, locomotive cranes, etc. No. 152,447; Feb. 28.
- Koenig, Fred A., Chicago, Ill. Blank account books. No. 159,404; Sept. 26.
- Koenig, Harry D., New York, N. Y. Manicuring implements and accessories. No. 159,008; Sept. 19.
- Koenig Medicine Company, Chicago, Ill. Line of proprietary medicines. No. 21,103; renewed May 10, 1922.
- Kohl-Pye Manufacturing Co., Rochester, N. Y. Cuff buttons. No. 155,470; May 30.
- Kohl, T. G., Company, Wausau, Wis. Chimney cleaners. No. 157,998; Aug. 22.
- Kohlhaas, John V., Philadelphia, Pa. Monthly magazine. No. 157,698; Aug. 15.
- Kohn, Adler & Co., Philadelphia, Pa. Hats for women. No. 157,999; Aug. 22.
- Kohn-Fechheimer Co., The, Cincinnati, Ohio. Ladies' and misses' leather shoes. No. 156,806; July 11.
- Kohnstamm, H. & Co., New York, N. Y. assignor to H. Kohnstamm & Co., Inc. Soap. No. 157,699; Aug. 15.
- Kohnstamm, H. & Co., New York, N. Y. Union and acid dyes. No. 158,473; Sept. 5.
- Kohnstamm, H. & Co., Inc., New York, N. Y. Launderer's materials. No. 159,196; Sept. 19.
- Kohnstamm, H. & Co., Inc., New York, N. Y. Hot and cold sour for laundry purposes and in treating textiles. No. 159,924; Oct. 10.
- Kohnstamm, H. & Co., Inc., New York, N. Y. Aniline blues for laundry purposes. No. 161,192; Nov. 7.
- Kolke, Jitsutaro, doing business as Nippon Dry Goods Co., San Francisco, Calif. Silk, cotton, woolen, and fiber textiles and mixtures thereof. No. 161,794; Nov. 21.
- Koken Companies, St. Louis, Mo. Toilet waters and perfumes. No. 159,405; Sept. 26.
- Koken Companies, St. Louis, Mo. Preparation for the hair. No. 161,193; Nov. 7.
- Koken Companies, Wilmington, Del., and St. Louis, Mo. Razor strops. No. 162,287; Dec. 12.
- Kolar, G. S., Laboratories, Chicago, Ill. Certain toilet and medicinal preparations. No. 152,210; Feb. 21.
- Kolbe, Paul, Detroit, Mich. Nonalcoholic beverages in containers. No. 151,154; Jan. 24.
- Kolynos Company, The, New Haven, Conn. Tooth pastes, antiseptic solution, and germicidal disinfectant. No. 150,439; Jan. 3.
- Komada, Tomisaburo, Yokohama, Japan. Canned and bottled crab. Nos. 157,700-1; Aug. 15.
- Komfy Products Company, Chicago, Ill. High chairs for children. No. 159,009; Sept. 19.
- Komo Chemical Company, Philadelphia, Pa. Fly liquids. No. 150,440; Jan. 3.
- Komo Chemical Company, Philadelphia, Pa. Certain chemical preparations. No. 160,900; Oct. 31.
- Konikov Chemical Laboratories, The. (See Konikov, William M.)
- Konikov, William M., doing business as The Konikov Chemical Laboratories, Boston, Mass. Medicated compound for female ailments. No. 161,194; Nov. 7.
- Kopf, Martin C., Milwaukee, Wis. Medicinal powder for rheumatism, gout, lumbago, etc. No. 155,737; June 6.
- Kopp, C. M., Company, The, Yakima, Wash. Fresh onions. No. 150,441; Jan. 3.
- Kopp, C. M., Company, The, Yakima, Wash. Fresh apples and pears. No. 156,532; June 27.
- Koppel Industrial Car & Equipment Co., Koppel and Pittsburgh, Pa. Railway rails and certain railway-rail accessories. No. 153,222; Mar. 14.
- Koppel Industrial Car & Equipment Company, Koppel and Pittsburgh, Pa. Steam locomotives, turntables, bucket excavators, concrete mixers, etc. No. 154,989; May 16.
- Koppel Industrial Car & Equipment Company, Koppel and Pittsburgh, Pa. Electric locomotive and tractors. No. 155,738; June 6.
- Koppel Industrial Car & Equipment Company, Koppel and Pittsburgh, Pa. Welded and riveted pipe, railway spikes and bolts, etc. No. 156,320; June 20.
- Koppel Industrial Car & Equipment Company, Koppel and Pittsburgh, Pa. Railway rails, metal ties, fish plates, switch points, etc. No. 156,321; June 20.
- Koppel Industrial Car & Equipment Company, Koppel and Pittsburgh, Pa. Certain cars and parts thereof. No. 157,122; July 25.
- Koppers Company, The, Pittsburgh, Pa. Coke. Nos. 160,223-5; Oct. 17.
- Kops Bros., New York, N. Y. Corsets, brassières, corset covers, and waists. Nos. 154,600-01; Apr. 18.
- Korff, F. & Co. (co-partnership), Watergraafsmeer, near Amsterdam, Netherlands. Cocoa. No. 154,602; Apr. 18.
- Kosofsky, Aaron, New York, N. Y. Rabbit skins dyed by special process to be made into fur garments. No. 154,080; Apr. 4.
- Kosofsky, Aaron, New York, N. Y. Muskrat skins. No. 155,897; June 6.
- Kosofsky, Aaron, New York, N. Y. Rabbit skins dyed by special process to be made into fur garments. No. 156,533; June 27.
- Koster, Christian H., New York, N. Y. Butter. No. 161,888; Nov. 21.
- Kostitch, Josephine, Denver, Colo. Lotion or cream for the skin. No. 161,195; Nov. 7.
- Kovac, Stephen, New Rochelle, N. Y. Hair tonics. No. 159,714; Oct. 3.
- Kovacs, Koloman, Duquesne, Pa. Certain chemical, medicinal, and pharmaceutical preparations. No. 151,525; Feb. 7.
- Kovacs, Lila, Pittsburgh, Pa. Certain toilet preparations. No. 160,099; Oct. 10.
- Kozlowski, Boleslaw R., Chicago, Ill. Ferrated bitter wine to be used as a general tonic. No. 151,526; Feb. 7.
- Kozlowski, Frank J., Detroit, Mich. Proprietary medicines. No. 158,474; Sept. 5.
- Kraft, J. L., & Bros. Co., Chicago, Ill. Cheese. No. 155,898; June 6.
- Krag, Leona A., Chicago, Ill. Nom de plume on newspaper and magazine articles. No. 159,010; Sept. 19.
- Kramer, H., & Co., Chicago, Ill. Metal products consisting of ferrous and non-ferrous castings. No. 151,527; Feb. 7.
- Kramer, Sauber & Kesting, Incorporated, Baltimore, Md. Middy blouses. No. 155,739; June 6.
- Kranish Bros., New York, N. Y. Binding tapes, elastic webbing, dress belting. No. 162,803; Dec. 26.
- Krank, A. J., Manufacturing Company, St. Paul, Minn. Shaving cream. No. 157,817; Aug. 15.
- Krank, Alfred J., St. Paul, Minn. Cleansing cream. No. 152,604; Feb. 28.
- Krantz Manufacturing Company Inc., Brooklyn, N. Y. Electric switchboards, electric panel boxes, and electric safety switches. No. 153,933; Mar. 28.
- Krasnow, R., & Sons, Inc., Pittsburgh, Pa. Cantaloupes and fresh grapes. No. 151,835; Feb. 14.
- Krasnow, R., & Sons, Inc., Pittsburgh, Pa. Fresh grapes. No. 152,448; Feb. 28.
- Kraus & Co. Inc., Baltimore, Md. Cigars. No. 153,776; Mar. 28.
- Krauss, Herman, Toledo, Ohio. Malt extracts. No. 158,475; Sept. 5.
- Krauth & Benninghofen, Hamilton, Ohio. Music stands. No. 150,681; Jan. 3.
- Kravitz, Rebecca, Vineland, N. J. Washing fluid. No. 162,288; Dec. 12.
- Kreamer, A., Inc., Brooklyn, N. Y. Bread boxes. No. 153,480; Mar. 21.
- Krieg, J. K., Company, New York, N. Y. Combination leather and rubber soles and heels for shoes. No. 154,757; Apr. 18.
- Krieg, J. K., Company, New York, N. Y. Combination leather and rubber heels for shoes. No. 157,271; July 25.
- Kriehoff Company, Detroit, Mich. Cementitious surfacing material for floors or walks. No. 153,223; Mar. 14.
- Krieger, Philip I., Chicago, Ill. Malt extract. No. 151,340; Jan. 31.
- Krippendorf-Dittmann Co., The, Cincinnati, Ohio. Ladies' and misses' leather shoes. No. 157,123; July 25.
- Kro-Ko Corporation, The. (See Gilpin, Donald N.)
- Kron, Ewald, Solingen, Germany. Razors, pocketknives, table knives, scissors. No. 153,777; Mar. 28.
- Kroneberger, C. H., & Co., Baltimore, Md. Tea. No. 151,836; Feb. 14.
- Kronyte Manufacturing Corporation, Rochester, N. Y. Fiber gaskets and packings, and fiber in sheet form for gaskets and packings. No. 150,442; Jan. 3.
- Kronyte Manufacturing Corporation, Rochester, N. Y. Fiber cops and quills. No. 152,850; Mar. 7.
- Krueger, Albert A., doing business as Curlox Company, St. Louis, Mo. Hair shampoo. No. 158,243; Aug. 29.
- Krueger, Gottfried, Brewing Company, Newark, N. J. Malt and hops extract for beverages. No. 157,965; Aug. 22.
- Krueger, J. F. & Co. Inc., Indianapolis, Ind. Polish for varnished and enameled surfaces, furniture, etc. No. 151,155; Jan. 24.
- Krueger-Tobin Co. Inc., New York, N. Y. Infants', children's, women's, and men's hosiery. No. 158,722; Sept. 12.
- Krueger-Tobin Co., Inc., New York, N. Y. Infants' hosiery. No. 160,226; Oct. 17.
- Kruger Drug Co., Brooklyn, N. Y. Medicinal preparation for treatment of the stomach, liver, and bowels. No. 156,322; June 20.
- Krumrein, John H., doing business as Petsy Manufacturing Company, Baltimore, Md. Hair restorer. No. 161,196; Nov. 7.

- Krusch, William T., doing business as Duplex Products Co., Norwalk, Conn. Shampoo cream. No. 159,925; Oct. 10.
- Kubik, Henry J., Stockton, Calif. Nonalcoholic, noncereal, maltless beverage. No. 151,393; Jan. 31.
- Kuehn, Charles A., St. Louis, Mo. Certain baskets, boxes, vases, and tubs. No. 150,443; Jan. 3.
- Kuentzel, Curt, Akron, Ohio. Tire-protecting and skid-preventing devices. No. 150,872; Jan. 10.
- Kuh Brothers, San Francisco, Calif. Children's garments consisting of girls' rompers, play garments, and dresses. No. 157,124; July 25.
- Kuhlken, Hermann, Brooklyn, N. Y. Mayonnaise dressing. No. 153,778; Mar. 28.
- Kuhnlenz, August, Sharon and Farrell, Pa. Nonalcoholic, noncereal, maltless beverages. No. 150,873; Jan. 10.
- Kuhns Brothers, Dayton, Ohio. Pipe fittings and other fittings. No. 150,874; Jan. 10.
- Kulp, Lester, doing business as Mid-West Lamp Co., Chicago, Ill. Electric lamps. No. 161,792; Nov. 21.
- Kummerlander, Charles G., Chicago, Ill. Yeast products in the form of powder or tablets. No. 155,998; June 13.
- Kunstharzfabrik Dr. Fritz Pollak G. m. b. H., Vienna, Austria. Cigar and cigarette holders, pipestems, etc. No. 155,469; May 30.
- Kunstler, Isidor, New York, N. Y. Cravats. No. 151,837; Feb. 14.
- Kuntzmann, Henry H., St. Louis, Mo. Shampoo for the hair and scalp. No. 155,740; June 6.
- Kuppenheimer, B., and Co., Chicago, Ill. Men's outer clothing—viz, suits and overcoats. No. 155,741; June 6.
- Küppers Metallwerke Gesellschaft mit beschränkter Haftung, Bonn-on-the-Rhine, Germany. Solder in the form of paste, soldering ingots, soldering rods, etc. No. 162,804; Dec. 26.
- Kurtees, J. F., Paint Company, Incorporated, Louisville, Ky. Compound for painting roofs and preventing corrosion. No. 150,682; Jan. 3.
- Kurtees, J. F., Paint Company, Incorporated, Louisville, Ky. Prepared liquid enamel paint. No. 162,805; Dec. 26.
- Kuroris Supply Company, New York, N. Y. Dental tools and appliances. No. 158,476; Sept. 5.
- Kuroski, Alfred G. F., Brooklyn, N. Y. Vizers for windshields of vehicles. No. 153,224; Mar. 14.
- Kuster, Madeleine, Ossining, N. Y. Infants' coats. No. 158,723; Sept. 12.
- Kvidera, M. J., Cicero, Ill. Remedy for treatment of rheumatism. No. 151,834; Feb. 14.
- Kwik Mfg. Co., The, Topeka, Kans. Medical preparation for sore throat, cuts, sores, etc. No. 155,742; June 6.
- Kwilecki's, I., Sons, Bainbridge, Ga. Certain cutlery, machinery, and tools. No. 155,896; June 6.
- Kyoto Manufacturing & Trading Co., New York, N. Y. Certain named toilet brushes. No. 152,605; Feb. 28.
- Kyoto Manufacturing & Trading Co., New York, N. Y. Toilet brushes. No. 154,990; May 16.
- L. B. Hair Tonic Co., Minneapolis, Minn. Hair tonic. No. 153,781; Mar. 28.
- L. C. L. Co., The, New York, N. Y. Railroad cars and freight containers. No. 162,806; Dec. 26.
- L. G. & S. S. Co., Boston, Mass. Heel linings. No. 154,608; Apr. 18.
- L. S. E. Co., Inc., Brooklyn, N. Y. Fancy linen. No. 158,725; Sept. 12.
- Laabs, Georg, Schonhausen a. Elbe, Germany. Ointment for the treatment of certain named diseases. No. 158,244; Aug. 29.
- Labbee, Mitchell G., Chicago, Ill. Medicated dental tooth-picks. No. 159,011; Sept. 19.
- Labinger & Gerstein, Hartford, Conn. Dresses, middy blouses. No. 155,999; June 13.
- Laboiteaux, C. L., Company, The, Cincinnati, Ohio. Straw-board, box board, etc., and particularly binders' board. No. 157,896; Aug. 22.
- La Boiteaux, C. L., Company, The, Cincinnati, Ohio. Straw-board, box board, binders' board, etc. No. 159,299; Sept. 26.
- Laboratoire Nauvelle, Paris, France. Medicines for heart affections. No. 152,211; Feb. 21.
- Laboratorium "Leo" Dr. Phil. Ottomar Heinsius v. Mayenburg, Dresden, Germany. Tooth pastes, powder, and wash. No. 150,444; Jan. 3.
- Lace Net Importing Co., New York, N. Y. Fancy laces in the piece. No. 157,702; Aug. 15.
- Lackawanna Foundry Company, Dickson, Pa. Gas and oil stoves and ranges. No. 152,606; Feb. 28.
- Lackawanna Steel Company, Lackawanna, N. Y. Motor fuel oil. No. 161,525; Nov. 14.
- La Crosse Rubber Mills Co., La Crosse, Wis. Rubber boots and shoes. No. 159,012; Sept. 19.
- Ladd, William M., Lake City, Iowa. Dry-cleaning preparation for cleaning fabric and like goods. No. 162,289; Dec. 12.
- Ladish Milling Co., Milwaukee, Wis. Rye flour, dairy, horse, scratch, and chick feeds. No. 159,406; Sept. 26.
- Lady Nic Inc., New York, N. Y. Cigarettes. No. 158,000; Aug. 22.
- Lafata & Borelli, Brooklyn, N. Y. Polish for furniture, automobiles, and other articles. No. 162,807; Dec. 26.
- Lafayette Brush & Manufacturing Co., Philadelphia, Pa. Dusting mops. No. 160,555; Oct. 24.
- Lafayette Brush & Manufacturing Co., Philadelphia, Pa. Certain brushes. No. 160,556; Oct. 24.
- Lafferty, Herbert D., Chicago, Ill. Timers for internal-combustion engines. No. 152,852; Mar. 7.
- La France Jewelry Mfg. Company, Buffalo, N. Y. Finger rings and scarf pins. No. 161,705; Nov. 14.
- La Grace Dress Panel Manufacturing Co., Penns Grove, N. J. Dress panels. No. 159,013; Sept. 19.
- Laird Manufacturing Co. Inc., The, Richmond, Va. Baking powder. No. 157,353; Aug. 1.
- Lake Region Packing Association, Tavares, Fla. Fresh citrus fruits. No. 150,445; Jan. 3.
- Lake Superior Loader Co., Duluth, Minn. Mechanical shovels. No. 155,743; June 6.
- Lake Wales Citrus Growers Association, Lake Wales, Fla. Fresh citrus fruits. Nos. 155,744-5; June 15.
- Lalley Radio Corporation, Detroit, Mich. Radio receiving sets. No. 162,290; Dec. 12.
- Lamb Fruit Company, The, Milton, Oreg. Fresh deciduous fruit. No. 156,323; June 20.
- Lamb Knit Goods Co., The, Colon, Mich. Sweaters, bathing suits, caps, and gloves. No. 161,524; Nov. 14.
- Lamb Knit Goods Co., The, Colon, Mich. Men's, boys', and ladies' sweaters and vests. No. 161,525; Nov. 14.
- La Mira Chemical Co., New York, N. Y. Hair dyes. No. 150,446; Jan. 3.
- Lamm Brothers, Baltimore, Md. Clothing. Nos. 151,176-9; Jan. 24.
- Lammertz, Leo, Aix-la-Chapelle, Germany. Sewing and embroidering machine needles. No. 152,449; Feb. 28.
- Lampe, Fred. E., New York, N. Y. Solder in paste form. No. 159,407; Sept. 26.
- Lamson Brothers Co., The, Toledo, Ohio. Talcum powder. No. 161,708; Nov. 14.
- Lamson Brothers Co., The, Toledo, Ohio. Toilet soaps. No. 162,460; Dec. 12.
- Lamson Oil Co. Inc., Providence, R. I. Lubricating greases. No. 162,437; Dec. 12.
- Lamson & Sessions Company, The, Cleveland, Ohio. Wire-rope clips. No. 162,529; Dec. 19.
- Lam-Té Manufacturing Co., Oklahoma, Okla., and New York, N. Y. Liquid face powder. No. 154,308; Apr. 11.
- Lancaster Iron Works, Inc., Lancaster, Pa. Brick machines. No. 161,795; Nov. 21.
- Landenberger, Charles H., Philadelphia, Pa. Brooders and hovers. No. 159,926; Oct. 10.
- Landers, Frary & Clark, New Britain, Conn. Weighing scales. No. 152,607; Feb. 28.
- Landers, Frary & Clark, New Britain, Conn. Laundry washing machines. No. 156,697; July 11.
- Landman, Robin, Milwaukee, Wis. Cigars. No. 160,227; Oct. 17.
- Lane, Arthur E., Lumber Corp., New York, N. Y. Wood shingles. No. 160,228; Oct. 17.
- Lane Brothers Company, Boston, Mass. Leather and felt shoes and shoes of combination of leather and rubber. No. 161,197; Nov. 7.
- Lane Manufacturing Company, Montpelier, Vt. Sawmill dogs. No. 160,100; Oct. 10.
- Lane, William Inc., Brooklyn, N. Y. Leather shoes. No. 161,369; Nov. 7.
- Lanett Cotton Mills, Lanett, Ala. Sheetting. No. 154,991; May 16.
- Lange, H. T., Co., The, Eau Claire, Wis. Coffee. No. 160,557; Oct. 24.
- Lange, William L., New York, N. Y. Banjos. No. 161,889; Nov. 21.
- Langenzen, David, New York, N. Y. Gauze and cheese-cloth for surgical purposes. No. 152,853; Mar. 7.
- Langguth-Olson Co., New York, N. Y. Dry batteries. No. 153,225; Mar. 14.
- Langley & Michaels Company, San Francisco, Calif. Intestinal lubricant. No. 150,447; Jan. 3.
- Langley & Michaels Co., San Francisco, Calif. Sirups and flavoring extracts for making beverages and sirups and extracts for making root beer. No. 152,854; Mar. 7.
- Langley & Michaels Co., San Francisco, Calif. Candies. No. 156,574; June 27.
- Langley & Michaels Co., San Francisco, Calif. Massage alcohol. No. 158,245; Aug. 29.
- Langley & Michaels Co., San Francisco, Calif. Rubbing alcohol. No. 158,246; Aug. 29.
- Langley & Michaels Co., San Francisco, Calif. Soda fountains, carbonators, and soda-fountain machinery. No. 159,408; Sept. 26.
- Langley & Michaels Co., San Francisco, Calif. Antiseptic and germicidal solution. No. 159,409; Sept. 26.
- Langmann, V., Inc., New York, N. Y. Olive oil. No. 158,247; Aug. 29.
- Lanka, Gus, Los Angeles, Calif. Poultry medicinal powder. No. 151,528; Feb. 7.
- Lanning, Frank W., doing business as Harvard Garment Company, Harvard, Ill. Cloth dolls and doll dresses. No. 158,726; Sept. 12.
- Lansburgh & Brother, Washington, D. C. Refrigerators. No. 160,558; Oct. 24.
- Lapsley & Bro. Company, Baltimore, Md. Window shades. No. 157,272; July 25.
- Laporte & Gauthier, Somerset, Manitoba, Canada. Dietary bread in the form of croissants and tea biscuit. No. 159,715; Oct. 3.

Alphabetical list of registrants of trade-marks—Continued.

- Larabee Flour Mills Corporation, The, Kansas City, Mo. Wheat flour. No. 162,808; Dec. 26.
 Large, Henry, Jr., and Frederick C. Renziehausen, West Elizabeth, Pa. Whiskies and alcoholic liquors. No. 19,997; renewed Aug. 11, 1921.
 Large & Roomy Overall Mfg. Co., The, Cincinnati, Ohio. Men's, boys', and children's overalls and trousers. No. 161,526; Nov. 14.
 Largman, Gray Company, Philadelphia, Pa. Silk hose. No. 159,014; Sept. 19.
 Larkin Co., Inc., Buffalo, N. Y. Certain toilet, chemical, and medicinal preparations. No. 152,090; Feb. 14.
 Larkin Co., Inc., Buffalo, N. Y. Antiseptic solution and mouth wash. No. 159,927; Oct. 10.
 Larkin, Thomas W., & Co., doing business as Mystery Drink Company, Streator, Ill. Nonalcoholic, non-cereal, maltless beverage. No. 157,532; Aug. 8.
 Larrabee-Deyo Motor Truck Company, Inc., Binghamton, N. Y. Motor trucks. No. 161,890; Nov. 21.
 Larsen, Howard R., Milwaukee, Wis. Dolls. No. 153,226; Mar. 14.
 Larson, Clifford M., Chicago, Ill. Liquid gauges, etc. No. 156,698; July 11.
 Laskins, J., & Sons, New York, N. Y. Seal-dyed rabbit skins. No. 161,707; Nov. 14.
 La Societe Anonyme des Amidonerie & Rizerie de France, Marquette-Lille, France. Sauce and ingredient for sauces. No. 154,795; May 9.
 La Societe Anonyme Du Filre Chamberland Systeme Pasteur, Paris, France. Filters. No. 156,324; June 20.
 La Societe des Produits Chimiques Coignet, Paris, France. Phosphorus. No. 158,001; Aug. 22.
 La Societe des Produits Chimiques Coignet, Paris, France. Glue and gelatine. Nos. 158,727-8; Sept. 12.
 La Societe des Produits Chimiques Coignet, Paris, France. Glue. No. 158,729; Sept. 12.
 La Societe des Produits Chimiques Coignet, Paris, France. Gelatin. No. 160,782; Oct. 24.
 Lassner, Albert, New York, N. Y. Veilings, chiffon cloth, georgette crepe, etc. Nos. 154,309-10; Apr. 11.
 Latimer, Daniel B., Philadelphia, Pa. Laxatives and purgatives. No. 152,212; Feb. 21.
 La Tulle Herb Co., Los Angeles, Calif. Lotion for darkening gray hair, facial creams, toilet lotions, etc. No. 161,198; Nov. 7.
 Laub, Jacob, Baking Co., The, Cleveland, Ohio. Bread. No. 162,781; Dec. 26.
 Laubsch, Jannie, Detroit, Mich. Liniment. No. 153,780; Mar. 28.
 Lauerman Brothers Company, Marinette, Wis. Knitted underwear and hosiery. No. 161,527; Nov. 14.
 Lauerman Bros. Co., Inc., Marinette, Wis. Knitting worsted. No. 156,807; July 11.
 Lauritsen, Thorvald G., Swampscott, Mass. Food flavor for gravies and soups. No. 151,394; Jan. 31.
 Lauro, Don F., New York, N. Y. Dry crystals for general cleansing and washing. No. 162,530; Dec. 19.
 Lauter-Humana Company, Newark, N. J. Pianos and player pianos. No. 154,992; May 16.
 Lava Crucible Company of Pittsburgh, Pittsburgh, Pa. Crucibles. No. 152,608; Feb. 28.
 Lavec, Arthur, Cicero, Ill. Hair grower. No. 151,838; Feb. 14.
 Lavello Company, The, Columbus, Ohio. Skin lotion. No. 156,325; June 20.
 La Vietes Manufacturing Co., New Haven, Conn. Windshield cleaners. No. 151,180; Jan. 24.
 Lawndale Wholesale Grocery Company, Chicago, Ill. Canned tomatoes and fruit preserves. No. 154,830; May 9.
 Lawndale Wholesale Grocery Co., Chicago, Ill. Canned tomatoes. No. 157,703; Aug. 15.
 Lawrence C. May Co. (See May, Lawrence C.)
 Lawrence, R. S., London, England. Cut leather soles. No. 154,603; Apr. 18.
 Lawrence, R. S., London, England. Cut leather soles. No. 157,125; July 25.
 Lawrence Textile Co., New York, N. Y. Lawns in the piece. Nos. 150,875-7; Jan. 10.
 Lawrenceburg Overall Mfg. Co., Lawrenceburg, Ind. Overalls, jackets, and work shirts. No. 161,199; Nov. 7.
 Lawson, F. H., Company, The, Cincinnati, Ohio. Pieced and stamped tinware, sheet-metal products, etc. No. 153,481; Mar. 21.
 Lawther, William J., Dallas, Tex. Cow feed. No. 159,928; Oct. 10.
 Lay Rité Laboratory, St. Louis, Mo. Face powder and perfumes. No. 160,901; Oct. 31.
 Lay & Way Co., The, New York, N. Y. Underwaists, body waists, corset waists, corsets, etc. No. 159,015; Sept. 19.
 Lazier, J. F., Mfg. Co., St. Louis, Mo. Metal bottle caps. No. 152,855; Mar. 7.
 Lea & Perrins, Worcester, England. Sauce for meats, fish, game, gravies, and soup. No. 21,208; renewed May 31, 1922.
 Leader Iron Works, Decatur, Ill. Storage and pumping units for gasoline, etc., and pumps for same. No. 154,311; Apr. 11.
 Leasure, Isaac N., Chicago, Ill. Compound for treating dropsy. No. 155,746; June 6.
 Leavengood, Clyde, Rosedale, Kans. Preparation for the treatment of asthma. No. 157,354; Aug. 1.
 Leavitt, Louis, Brooklyn, N. Y. Paints and paint enamels. No. 162,438; Dec. 12.
 Le Boeuf Fountain Pen Company, Inc., Springfield, Mass. Fountain pens. No. 162,531; Dec. 19.
 Lecar Carbon Company, assignor to W. K. Jamison, S. B. Mathewson, H. F. Marston, Mrs. W. K. Jamison, and Mrs. S. B. Mathewson, trustees of the Lecar Carbon Company, Springfield, Ohio, a trust estate. Carbonizing compounds. No. 160,902; Oct. 31.
 Leckie Coal Company, Inc., Norfolk, Va., and Columbus, Ohio. Coal. Nos. 152,856-7; Mar. 7.
 Lederer, Dr. Otto, Paris, France. Aspirators, cupping outfits, and compression outfits. No. 161,528; Nov. 14.
 Lederer, Herbert B., Co. Inc., New York, N. Y. Malines, tulles, and nettings in the piece. No. 152,213; Feb. 21.
 Lederer, Herbert B., Co., Inc., New York, N. Y. Gingham in the piece. No. 152,858; Mar. 7.
 Lederer, Michael C., Cleveland, Ohio. Rubber stamps and marking devices. No. 155,248; May 23.
 Lee Broom & Duster Company, Lincoln, Nebr. Brooms. No. 152,033; Feb. 14.
 Lee, Gilbert C., Los Angeles, Calif. Compounds for cleaning hands. No. 158,737; Sept. 12.
 Lee, Harry C., & Company Inc., New York, N. Y. Tennis rackets. No. 154,993; May 16.
 Lee, Lionel F., doing business as Lee Rubber Company, Waukesha, Wis. Inner-tire rubber patches. No. 159,929; Oct. 10.
 Lee Rubber Company. (See Lee, Lionel F.)
 Lee Tire & Rubber Co., Whitmarsh township, Montgomery County, Pa. Pneumatic rubber tires. No. 150,448; Jan. 8.
 Leeper, Edward E., Council Bluffs, Iowa. Medicines for certain uses. No. 150,653; Jan. 3.
 Lees, James, and Sons Company, Bridgeport, Pa. Certain articles of clothing. No. 159,016; Sept. 19.
 Le Francis Cigar Company, Cambridge, Mass. Cigars. No. 160,559; Oct. 24.
 Leh, Harold M., Atlantic City, N. J. Cleaning and polishing composition for removing and preventing fog on glass. No. 154,831; May 9.
 Lehigh Portland Cement Company, Allentown, Pa. Portland cement. No. 152,609; Feb. 28.
 Lehigh Silk Hosiery Mills, Inc., New York, N. Y. Hosiery. Nos. 159,197-8; Sept. 19.
 Lehigh Silk Hosiery Mills, Inc., New York, N. Y. Hosiery. No. 160,783; Oct. 24.
 Lehigh Silk Hosiery Mills, Inc., New York, N. Y. Hosiery. No. 161,529; Nov. 14.
 Lehman, J. & M., New York, N. Y. Gloves. No. 22,484; renewed Feb. 21, 1923.
 Lehman Mfg. Co., Cannelton, Ind. Automobile bodies. No. 151,840; Feb. 14.
 Lehmann & Bohne, Berlin, Germany. Toilet preparations. No. 155,471; May 30.
 Lehmann, O. E., & Co., New York, N. Y. Ring springs. No. 161,530; Nov. 14.
 Lehn and Fink, Inc., New York, N. Y. Cosmetics. No. 159,716; Oct. 3.
 Lehn and Fink, Inc., New York, N. Y. Antiseptics. No. 159,930; Oct. 10.
 Lehrer, John P., Belmont Park, N. Y. Automobile vans and motor trucks. No. 151,841; Feb. 14.
 Leibe, H. L., Co., Newark, N. J. Spectacles and eyeglasses. No. 153,934; Mar. 28.
 Leiber, Max, & Company, Donora, Pa. Nonalcoholic maltless beverages or drink. No. 156,889; July 18.
 Leich, Charles, & Co., Evansville, Ind. Paper, tablets, paperettes, envelopes, and boxes of sheet paper. No. 157,126; July 25.
 Leighton, John H., San Francisco, Calif. Canned and cured fruits, canned vegetables, pork and beans, catchup, etc. No. 162,532; Dec. 19.
 Leininger, George H., doing business as Industrial Hosiery Mills, Mohnton, Pa. Hosiery. No. 161,200; Nov. 7.
 Lemoine, Jules L., Paris, France. Coffee percolators, coffee and tea urns, etc. No. 152,432; Feb. 28.
 Lemoine, Jules L., Paris, France. Metal cooking and other utensils. No. 152,865; Mar. 7.
 Lenox Shops Inc., Canastota and New York, N. Y. Dining-room furniture. No. 153,378; Mar. 14.
 Leon, Albert E., Belmont, Mass. Antifriction bearings, shafts, arbors, and bearing parts. No. 159,410; Sept. 26.
 Leon, Benjamin, Camden, N. J. Candy. No. 151,529; Feb. 7.
 Leon, Henry H., Co., New York, N. Y. Handkerchiefs. No. 154,994; May 16.
 Leon Maurice Laboratories, Montgomery, Ala. Certain medicinal and toilet preparations. No. 158,259; Aug. 29.
 Leon's Inc., Omaha, Nebr. Certain articles of clothing. No. 154,605; Apr. 18.
 Leonard, A. F., & Co., Jacksonville, Fla. Balm. No. 155,748; June 6.
 Leonard & Barrows, Middleboro and Boston, Mass. Leather boots and shoes. No. 157,533; Aug. 8.
 Leopold, Louis A., trading as Lane Bryant, New York, N. Y. Shoes of leather, rubber, fabric, etc. No. 159,017; Sept. 19.
 Le Pinx Laboratories. (See Darneille, Benjamin F.)
 Leprince, Maurice, Bourges, France. Pills. No. 21,926; renewed Nov. 1, 1922.

- Le Sesne, Richard H., Daytona, Fla. Photographs made on glass, tones in sepia and backed with gold. No. 150,683; Jan. 3.
- Les Fils De Rubin-Maire, St.-Imier, Switzerland. Watch springs. No. 152,859; Mar. 7.
- Lesh, C. P., Company, Indianapolis, Ind. Writing, printing, and book paper. Nos. 157,620-2; Aug. 8.
- Lesh, C. P., Paper Company, Indianapolis, Ind. Writing, printing, and book paper. Nos. 159,199-201; Sept. 19.
- Lesh, C. P., Paper Company, Indianapolis, Ind. Writing, printing, and book paper. No. 159,411; Sept. 26.
- Lesh, C. P., Paper Company, Indianapolis, Ind. Writing, printing, and book paper. No. 159,628; Sept. 26.
- Lesh, C. P., Paper Company, Indianapolis, Ind. Paper and envelopes. No. 160,560; Oct. 24.
- Lesh, C. P., Paper Company, Indianapolis, Ind. Writing, printing, and book paper. Nos. 160,561-4; Oct. 24.
- Lesh, C. P., Paper Company, Indianapolis, Ind. Writing, printing, and book paper. No. 161,796; Nov. 21.
- Lesh, C. P., Paper Company, Indianapolis, Ind. Writing, printing, and book paper. No. 162,533; Dec. 19.
- Lesh, Whitman & Co., Inc., New York, N. Y. Draperies and upholstery. No. 158,028; Aug. 22.
- Leslie, Eugene H., doing business as Motors Efficiency Co., Ann Arbor, Mich. Certain chemical preparation. No. 160,903; Oct. 31.
- Lessmann Bros., New York, N. Y. Cutlery. No. 154,996; May 16.
- Lester & Wasley, Norwich, Conn., assignors to The Lester & Wasley Company, Incorporated. Machinery for pasting and folding envelopes and making paper boxes. No. 22,074; renewed Nov. 29, 1922.
- Lester & Wasley Company, The. (See Lester & Wasley, assignors.)
- Lesters, Chas. E., Co. Inc., New York, N. Y. External body tonic. No. 154,312; Apr. 11.
- Letallog Mailer Co., Chicago, Ill. Envelopes and mailing containers. No. 150,878; Jan. 10.
- Leto Photo Materials Co. (1905) Ltd., The, London, England. Photographic printing paper. No. 161,958; Nov. 28.
- L'Euterapica, Turin, Italy. Remedy for the treatment of blennorrhoea. No. 157,942; Aug. 22.
- Levan, Harry D., Lebanon, Pa. Fertilizers. No. 159,018; Sept. 19.
- Levene, Ben, Inc., New York, N. Y. Ladies' hosiery. No. 154,606; Apr. 18.
- Lever Brothers Company. (See Brooke, Benjamin & Company, assignor.)
- Levin, Mendel, Brooklyn, N. Y. Table salt. No. 162,162; Dec. 5.
- Levin, Nathan, Pittsburgh, Pa. Certain articles of clothing. No. 157,127; July 25.
- Levin, Nathan, Pittsburgh, Pa. Waterproof cloth. No. 162,809; Dec. 26.
- Levine, Benjamin A., Brooklyn, N. Y. Hosiery. No. 155,749; June 6.
- Levine, David, & Sons, New York, N. Y. Men's, women's, and children's hosiery made of silk, cotton, wool, etc. No. 155,750; June 6.
- Levinson, Sol, San Francisco, Calif. Boxing and fighting gloves. No. 161,201; Nov. 7.
- Levinstein, Max, Brooklyn, N. Y. Beauty cream. No. 151,530; Feb. 7.
- Levish, Thomas, Chicago, Ill. Monthly magazine. No. 162,291; Dec. 12.
- Levitt, David, Philadelphia, Pa. Electric storage batteries. No. 162,292; Dec. 12.
- Levlin Mfg. Co., Bradford, Pa. Closures for cigarette packages and tobacco packages or bags. No. 162,810; Dec. 26.
- Levussove, Louis, New York, N. Y. Hair. No. 156,135; June 13.
- Levy, Ernest & Hermann, Inc., New York, N. Y. Ribbons for making camisoles. No. 156,970; July 18.
- Levy, Ernest & Herman, Inc., New York, N. Y. Velvet ribbon. No. 161,531; Nov. 14.
- Levy, F., Shoe Co., St. Louis, Mo. Children's shoes made of leather, rubber fabrics, and combinations of materials. No. 158,730; Sept. 12.
- Levy, Frank, New York, N. Y. Paper and blank books. No. 151,182; Jan. 24.
- Levy & Marcus, New York, N. Y. Neckties and scarfs. No. 159,019; Sept. 19.
- Levy Mattress Company, Inc., New Orleans, La. Pillows. No. 153,482; Mar. 21.
- Levy, Maurice, New York, N. Y. Rouge. No. 161,202; Nov. 7.
- Levy, Maurice M., doing business as The Doll-Craft Company, Brooklyn, N. Y. Dolls. No. 160,565; Oct. 24.
- Levy, Morris & Brother, New York, N. Y. Fur coats. No. 154,763; Apr. 25.
- Levy, Paul H., Baltimore, Md. Game boards. No. 151,181; Jan. 24.
- Levy Shulman and Co., Inc., New York, N. Y. Ladies' and misses' dresses. No. 158,538; Sept. 5.
- Levy & Weiss Shoe Co., New York, N. Y. Leather, fabric, and rubber shoes, and combinations of same. No. 158,731; Sept. 12.
- Lewenthal, Edward A., trading as Standard Motor Service Company, San Antonio, Tex. Springs for automotive vehicles. No. 160,566; Oct. 24.
- Lewinski, Frank K., Akron, Ohio. Healing salve for wounds. No. 156,326; June 20.
- Lewis, A. H., Medicine Co., The, Bolivar, Mo., assignor to The A. H. Lewis Medicine Company. Liver regulator and blood purifier. No. 21,202; renewed May 24, 1922.
- Lewis, A. T., & Son Dry Goods Company, The, Denver, Colo. Leather shoes. No. 161,203; Nov. 7.
- Lewis Brothers, Inc., New York, N. Y. Hair dressing. No. 151,842; Feb. 14.
- Lewis, Edgar P., Boston, Mass. Candies and chocolates. No. 156,000; June 13.
- Lewis Electric Company, The, Canton, Ohio. Electric switches and service entrances. No. 161,709; Nov. 14.
- Lewis, Florence N., New York, N. Y. Toilet soaps. No. 151,843; Feb. 14.
- Lewis, Florence N., New York, N. Y. Skin lotions and creams, reducing lotion, bleach cream, and depilatory. No. 153,598; Mar. 21.
- Lewis, Florence N., New York, N. Y. Face powder. No. 162,163; Dec. 5.
- Lewis, Frank M., Jr., Baltimore, Md. Cardboard golf games. No. 151,183; Jan. 24.
- Lewis, Henrietta, Chicago, Ill. Face creams. No. 158,478; Sept. 5.
- Lewis, I., Cigar Manufacturing Co., Newark, N. J. Cigars. No. 152,860; Mar. 7.
- Lewis, I., Cigar Manufacturing Co., Newark, N. J. Cigars. No. 153,227; Mar. 14.
- Lewis, John, & Company, Spokane, Wash. Certain packing-house products. No. 150,449; Jan. 3.
- Lewis, John S., Syracuse, N. Y. Dish scrapers. No. 150,879; Jan. 10.
- Lewis, L. H., Company, Dallas, Tex. Hosiery. No. 161,204; Nov. 7.
- Lewis Manufacturing Co., Walpole, Mass. Certain piece goods. No. 157,128; July 25.
- Lewis, Morgan F., St. Louis, Mo. Hosiery. No. 154,607; Apr. 18.
- Lewis, R. Milton, Company, Detroit, Mich. Medicines for the treatment of tuberculosis. No. 158,248; Aug. 29.
- Lewis and Rose, Lebo, Kans. Candy. No. 153,228; Mar. 14.
- Lewis, W., and Company, Champaign, Ill. Shoes, boots, and slippers. No. 162,968; Dec. 26.
- Lewis, Wm., & Son, Chicago, Ill. Strings for musical instruments. No. 162,293; Dec. 12.
- Lewyn Drug Co. (See Lewyn, Isadore.)
- Lewyn, Isadore, doing business as Lewyn Drug Co., Houston, Tex. Women's tonic and regulator. No. 159,412; Sept. 26.
- Lexington Chemical Co., Inc., Boston, Mass. Ferrous carbonate pill. No. 161,205; Nov. 7.
- Lexington Motor Company, Connersville, Ind. Passenger motor cars and commercial motor vehicles. No. 152,861; Mar. 7.
- Lexington Motor Company, Connersville, Ind. Passenger motor cars and commercial motor vehicles. No. 153,935; Mar. 28.
- Lexington Motor Company, Connersville, Ind. Passenger motor cars and commercial motor vehicles. Nos. 154,081-2; Apr. 4.
- Lexington Motor Company, Connersville, Ind. Automobiles. No. 156,890; July 18.
- Libby, McNeill & Libby, Chicago, Ill. Corned beef. No. 153,229; Mar. 14.
- Liberto, John, New York, N. Y. Chemical preparation as an insect exterminator. No. 155,472; May 30.
- Libertone Co., The. (See Clark, William J.)
- Liberty Mirror Works, Pittsburgh, Pa. Rear-view mirrors. No. 151,844; Feb. 14.
- Liberty Paper Co., New York, N. Y. Sealing tape. No. 154,997; May 16.
- Liberty Paper Co., New York, N. Y. Sealing tape. No. 159,413; Sept. 26.
- Liberty Paper Co., New York, N. Y. Sealing tape. No. 162,534; Dec. 19.
- Liberty Paper Co., New York, N. Y. Sealing tape. No. 162,535; Dec. 19.
- Liberty Patch Company, Oklahoma, Okla. Rubber tire patch. No. 159,931; Oct. 10.
- Liberty Tree Candy Company, Boston, Mass. Candies and chocolates. No. 151,845; Feb. 14.
- Lichten, Harold, Philadelphia, Pa. Hosiery. No. 152,997; Mar. 7.
- Lichtenstein, Annie, New York, N. Y. Hair combs. No. 151,846; Feb. 14.
- Lichtenstein, Annie, New York, N. Y. Hair combs. No. 153,483; Mar. 21.
- Lichtenstein, Edward N., Baltimore, Md. Bath brushes. No. 162,164; Dec. 5.
- Lichtenstein, Marvin, & Bro., New York, N. Y. Fur buttons. No. 150,468; Jan. 3.
- Lichtenstein-Mittenthal Company, Dallas, Tex. Ladies', misses', and children's trimmed hats. No. 160,229; Oct. 17.
- Lichtig B. & Son, Inc., Oakland, Calif. Hair nets. No. 153,230; Mar. 14.
- Lichtig, B. & Son, Inc., Oakland, Calif. Rubber tires. No. 157,129; July 25.
- Licorice Products Company, Dubuque, Iowa. Candy. No. 156,699; July 11.

Alphabetical list of registrants of trade-marks—Continued.

- Lieberman Brothers, Welch, Gary, Kimball, Northfork, Anawalt, Bluefield, and Williamson, W. Va., and Cincinnati, Ohio. Certain articles of clothing. No. 154,199; Apr. 4.
 Lieberman, David & Co., New York, N. Y. Men's dress, negligee, and work shirts. No. 161,206; Nov. 7.
 Lieberman Manufacturing Co., Philadelphia, Pa. Men's, women's, and boys' suits and trousers. No. 150,450; Jan. 3.
 Liebmans, S., Sons, Inc., New York and Brooklyn, N. Y. Malt soft drink. No. 159,414; Sept. 26.
 Liersch, Mrs. Mary, Kansas City, Mo. Medicinal preparations. No. 157,355; Aug. 1.
 Liggett, Milton, Seymour, Iowa. Chicken feed. No. 162,811; Dec. 26.
 Liggett & Myers Tobacco Co., New York, N. Y. Leaf to bacco. No. 150,880; Jan. 10.
 Liggett & Myers Tobacco Company, New York, N. Y. Smoking and chewing tobacco. No. 150,881; Jan. 10.
 Liggett & Myers Tobacco Company, New York, N. Y. Smoking and chewing tobacco and cigarettes. Nos. 150,882-4; Jan. 10.
 Liggett & Myers Tobacco Company, New York, N. Y. Smoking and chewing tobacco and cigarettes. No. 154,998; May 16.
 Lightfoot Schultz Company, Hoboken, N. J. Soap. No. 151,033; Jan. 10.
 Lightner, Eugene O., Washington, D. C. Direction signals. No. 162,095; Dec. 5.
 Light-Sight Products Corporation, Pierre, S. Dak., and Warren, Pa. Electric lamp. No. 158,479; Sept. 5.
 Lilly, Eli, & Company, The, Indianapolis, Ind. Medicinal preparation for use as a heart tonic or stimulant. No. 158,211; Aug. 29.
 Lilly, Eli, & Company, The, Indianapolis, Ind. Medicinal preparation for the treatment of rheumatism, etc. No. 159,348; Sept. 26.
 Lilly, Eli, & Company, The, Indianapolis, Ind. Medicinal preparation for use as an aphrodisiac and metabolic stimulant. No. 161,124; Nov. 7.
 Lilly, Eli, & Company, The, Indianapolis, Ind. Medicinal preparation for use as a sedative and hypnotic. No. 161,125; Nov. 7.
 Lima Photo-Engraving Co., Lima, Ohio. Pamphlets, leaflets, and circulars devoted to photo-engraving subjects. No. 151,847; Feb. 14.
 Limpert Bros. Inc., New York, N. Y. Nonalcoholic, maltless beverage. No. 150,885; Jan. 10.
 Lincoln Fiscal Agency, St. Louis, Mo. Monthly magazine. Nos. 157,534-5; Aug. 8.
 Lincoln Light Corporation, Grafton, Wis. Electric-power-generating units. No. 156,700; July 11.
 Lincoln Motor Company, Detroit, Mich. Lubricating oils and greases. No. 161,532; Nov. 14.
 Lincoln-Ray Manufacturing Co., Springfield, Mass. Certain soaps and polishes. No. 160,904; Oct. 31.
 Lincoln and Ulmer, New York, N. Y. Cigars, cigarettes, tobacco. No. 154,083; Apr. 4.
 Lind Shoe and Slipper Co., Worcester, Mass. Felt shoes and slippers. No. 154,609; Apr. 18.
 Lind Shoe and Slipper Co., Worcester, Mass. Felt slippers. No. 162,096; Dec. 5.
 Lindauer, Jules, Paris, France. Socks supporters, hose supporters, corsets. No. 154,610; Apr. 18.
 Lindberg, Axel T., Providence, R. I. Soap powder. No. 154,832; May 9.
 Lindeke-Warner & Sons, Inc., St. Paul, Minn. Hair nets. No. 162,812; Dec. 26.
 Linden Pharmacal Company, Norfolk, Va. Medicines for the treatment of colds, coughs, and la grippe. No. 161,207; Nov. 7.
 Lindenbaum, I., & Co., New York, N. Y. Lace in the piece. No. 154,611; Apr. 18.
 Lindenbaum, I., & Co., New York, N. Y. Lace in the piece. Nos. 156,327-8; June 20.
 Lindenhurst Manufacturing Co., Lindenhurst, N. Y. Horn buttons. No. 158,738; Sept. 12.
 Linder Bros., Scranton, Pa. Ladies' coats and suits for outer wear. No. 160,230; Oct. 17.
 Lindsay Light Company, Chicago, Ill. Gas mantles. No. 151,184; Jan. 24.
 Lindsay Light Company, Chicago, Ill. Gas mantles. Nos. 157,130-1; July 25.
 Lindsborg Milling & Elevator Co., Lindsborg, Kans. Wheat flour. No. 159,932; Oct. 10.
 Lindsey, Margaret J., Muncie, Ind. Face lotion and beautifier. No. 151,531; Feb. 7.
 Lindsey, Walter, Toronto, Ontario, Canada. Blood and nerve tonic in tablet form. No. 158,249; Aug. 29.
 Lindsley, John N., Inc., South Orange, N. J. Hammers. No. 156,329; June 20.
 Linehan, Austin J., Jersey City, N. J. Roof paint. No. 159,629; Sept. 26.
 Linen Thread Co., The, doing business as The Finlayson Flax Spinning Co., Boston, Mass. Linen thread. No. 162,813; Dec. 26.
 Lingensfelder, M. B., Co., Camden, N. J. Leather shoes, slippers, and moccasins. No. 151,848; Feb. 14.
 Lingner-Werke Aktiengesellschaft, Dresden, Germany. Medicinal preparations for certain diseases. No. 160,905; Oct. 31.
 Link-Belt Co., Chicago, Ill. Clutches. No. 157,623; Aug. 8.
 Link-Belt Co., Chicago, Ill. Mixers and preparing machines for molding sand. No. 162,814; Dec. 26.
 Link, Christian M., Attica, Ohio. Baled hay. No. 154,084; Apr. 4.
 Linquist, Bertrice E., Minneapolis, Minn. Phonographs. No. 150,886; Jan. 10.
 Linton & Scott, New York, N. Y. Toilet paper. No. 156,748; July 11.
 Linton & Scott, New York, N. Y. Toilet paper. No. 161,619; Nov. 14.
 Lion Specialty Co., Chicago, Ill. Chocolate-coated nuts. No. 162,815; Dec. 26.
 Lion Varnish Company, Glendale, N. Y. Ready-mixed paints and varnishes and floor filler. No. 159,415; Sept. 26.
 Liondale Bleach Dye & Print Works, Inc., Rockaway, N. J. Cotton and woolen and cotton and silk mixture piece goods. No. 150,887; Jan. 10.
 Lionne Company, The, Needham, Mass. Compound for certain named uses. No. 158,002; Aug. 22.
 Lipman Wolfe & Co., Portland, Oreg. Men's and boys' suits, overcoats, and topcoats. No. 160,335; Oct. 17.
 Lipman Wolfe & Co., Portland, Oreg. Chocolates. No. 160,567; Oct. 24.
 Lipman Wolfe & Co., Portland, Oreg. Chocolates. No. 160,750; Oct. 24.
 Lipsbulch, George U., Chicago, Ill. Vanilla flavor and extract, lemon extracts. No. 151,849; Feb. 14.
 Liquid Carbonic Company, The, Chicago, Ill. Carbonic acid gas. No. 154,313; Apr. 11.
 Lisiecki, Peter P., Detroit, Mich. Bread. No. 151,850; Feb. 14.
 Lissenin Radio Parts Co. (See Rappaport, Louis S.)
 Listerated Gum Corporation, New York, N. Y. Chewing gum. No. 152,316; Feb. 21.
 Listo Pencil Corporation, Alameda, Calif. Pencils. No. 159,416; Sept. 26.
 Lite Lunch Company, The. (See Ballaw, Elmer L.)
 Litt Co., The. (See Shoenberg, Milton H.)
 Litt, Arthur, & Co., New York, N. Y. Men's suits, trousers, and overcoats. No. 160,231; Oct. 17.
 Little, A. E., Co., Lynn, Mass. Boots and shoes of leather and leather and cloth. No. 158,732; Sept. 12.
 Little, A. E., Company, Lynn, Mass. Leather boots, shoes, and slippers. No. 161,370; Nov. 7.
 Little Duchess Dress Co., Inc., The, assignor to Rotary Frocks, Inc., New York, N. Y. Certain articles of clothing for women, misses, children, and infants. Nos. 150,451-2; Jan. 3.
 Little Duchess Dress Co., Inc., The, assignors to Rotary Frocks, Inc., New York, N. Y. Women's, misses', children's, and infants' clothing. No. 159,020; Sept. 19.
 Little Falls Felt Shoe Company, Little Falls, N. Y. Felt shoes and slippers. No. 156,001; June 13.
 Little Giant Company, Mankato, Minn. Machine forging hammers and metal and wood lathes. No. 154,766; May 2.
 Little Giant Company, Mankato, Minn. Certain laundry appliances. No. 158,250; Aug. 29.
 Little Giant Company, Mankato, Minn. Machine for measuring weight or pull. No. 159,417; Sept. 26.
 Little Goddess Dress Co., Inc., New York, N. Y. Outer clothing for girls. No. 158,733; Sept. 12.
 Little, Wilson R., Macon, Miss. Chill remedies. No. 155,751; June 6.
 Little Wonder Electric Heater Company. (See Nitch, Rudolf.)
 Littlefield & Steere Co., Knoxville, Tenn. Chocolates and candies. No. 154,796; May 9.
 Littlefield, W. H., and Company, Inc., Buffalo, N. Y. Women's and children's hats. Nos. 157,132-5; July 25.
 Littlebale, P. B., doing business as Moth K-L Company, New York, N. Y. Liquid preparation for protection against moths. No. 161,208; Nov. 7.
 Liverpool Borax Co., Limited, The, Liverpool, England. Size for use in connection with woolen warps and for finishing textile piece goods. No. 161,533; Nov. 14.
 Lisas y Ca., S. en C., Seville, Spain. Wines. No. 154,085; Apr. 4.
 Lloyd Drug Company, Detroit, Mich. Medicine used as a treatment for lung and bronchial affections. No. 157,356; Aug. 1.
 Lloyd, E. E., Paper Company, Chicago, Ill. Writing paper. No. 154,999; May 16.
 Lobl Manufacturing Company, The, Middleboro, Mass. Tee bags. No. 152,610; Feb. 28.
 Lobl Manufacturing Company, The, Middleboro, Mass. Inhalers. No. 152,863; Mar. 7.
 Lochman, John J., Carlstadt, N. J. Safety-razor-blade-stropping holders. No. 157,136; July 25.
 Locke, H. E., & Company Inc., Boston, Mass. Thread and yarn. No. 153,599; Mar. 21.
 Lockwood, Aleatha H., Hartford, Conn. Corsets, hose supporters, abdominal belts, brassieres, etc. No. 158,480; Sept. 5.
 Lockwood, Harry M., Redondo Beach, Calif. Canned fruits. No. 152,450; Feb. 28.
 Lockwood Studios, Santa Monica, Calif. Incense burners. No. 159,933; Oct. 10.
 Loch, Herman, assignor to Travelight Mfg. Co., Philadelphia, Pa. Clocks and timepieces generally. Nos. 155,478-4; May 30.

Alphabetical list of registrants of trade-marks—Continued.

- Loeb, Joseph, Company, The, Cincinnati, Ohio. Women's, misses', and children's hats. No. 160,233; Oct. 17.
- Loeber, Charles S., San Francisco, Calif. Printed books, including maps published from time to time. No. 152,034; Feb. 14.
- Loës, Franz E., New York, N. Y. Sirup for cough and catarrh. No. 161,209; Nov. 7.
- Loesch, Ellsworth, doing business as Bowelax Co., Cleveland, Ohio. Laxative tablets. No. 158,003; Aug. 22.
- Loewe, D. E., & Co., Danbury, Conn. Men's and children's hats and caps. No. 156,947; July 18.
- Loewe, D. E., & Co., Danbury, Conn. Men's and children's hats and caps. No. 157,137; July 25.
- Loewus, G., & Co., Jersey City, N. J. Malt extract. No. 154,612; Apr. 18.
- Loft, Incorporated, New York, N. Y. Candies. No. 159,418; Sept. 26.
- Log Cabin Products Company, The, St. Paul, Minn. Sirups for table purposes. No. 150,453; Jan. 13.
- Logar, Bertha, New York, N. Y. Hair restorer for restoring hair and removing dandruff. No. 159,021; Sept. 19.
- Logan Iron & Steel Company, Philadelphia, Pa. Iron and steel bar metal. No. 161,534; Nov. 14.
- Lohfeld, J. L., & Co. Inc., New York, N. Y. Wires for conducting electricity. No. 161,210; Nov. 7.
- Lohmann, John, Kingston, Pa. Preparation for the treatment of gallstones and diseases of the kidneys, liver, and bowels. No. 161,211; Nov. 7.
- London Lighting Wares Corporation. (See Eclipse Light Company.)
- London Shoe Co. Inc., New York, N. Y. Leather shoes. No. 154,613; Apr. 18.
- Long Island Knitting Mills Co., Brooklyn, N. Y. Bathing suits. No. 158,734; Sept. 12.
- Long Island Polish Co., New York, N. Y. Metal cleansers and polishes. No. 162,294; Dec. 12.
- Long Printing Company, Philadelphia, Pa. Monthly magazine. No. 151,851; Feb. 14.
- Long, Tony, Chicago, Ill. Liquid preparation for the alleviation of rheumatism. No. 151,532; Feb. 7.
- Longfield's Pharmacy, San Francisco, Calif. Cosmetic toilet preparation. No. 155,747; June 6.
- Lonsdale Company, Providence, R. I. Cotton piece goods. No. 153,231; Mar. 14.
- Lonsdale Company, Providence, R. I. Cotton piece goods. No. 156,534; June 27.
- Loock, Robert J., Baltimore, Md. Fan pulley pins. No. 153,782; Mar. 28.
- Loog & Sons, Sidney, Philadelphia, Pa. Adhesive cements. No. 151,341; Jan. 31.
- Look, Frank N., et al., trustees and their successors. (See Florence Manufacturing Company.)
- Loose-Wiles Biscuit Company, Long Island City, N. Y. Cakes, wafers, crackers, biscuits. No. 157,704; Aug. 15.
- Loose-Wiles Biscuit Company, Kansas City, Mo. Candy, specifically chocolate bars. No. 160,906; Oct. 31.
- Loraine Zinc Company, Chicago, Ill. Zinc oxide. No. 150,944; Jan. 10.
- Lord Baltimore Bottling Company. (See Schonhoff, John Z.)
- Lord & Taylor, New York, N. Y. Leather shoes and shoes of leather and rubber. No. 154,614; Apr. 18.
- Lord & Taylor, New York, N. Y. Corsets. No. 156,002; June 13.
- Lord & Taylor, New York, N. Y. Pyjamas. Nos. 161,212-14; Nov. 7.
- Lord & Taylor, New York, N. Y. Men's overcoats. No. 162,165; Dec. 5.
- Lorenzen, Chas. F., & Co., Chicago, Ill. Toy building blocks. No. 154,086; Apr. 4.
- Lorillard, P. Company. (See Whitlock, Philip, assignor.)
- Lorraine Manufacturing & Importing Company, Grand Haven, Mich. Hair nets. No. 152,451; Feb. 28.
- Lorraine Mfg. and Importing Company, Grand Haven, Mich. Hair nets. No. 157,705; Aug. 15.
- Los Angeles Ice & Cold Storage Co., Los Angeles, Calif. Beverage sold as soft drink and sirups used in making same. No. 161,959; Nov. 28.
- Los Angeles Soap Co., Los Angeles, Calif. Toilet soap. Nos. 151,852-3; Feb. 14.
- Los Angeles Soap Co., Los Angeles, Calif. Laundry soap. No. 151,854; Feb. 14.
- Los Angeles Soap Co., Los Angeles, Calif. Washing powder. No. 151,855; Feb. 14.
- Los Angeles Soap Co., Los Angeles, Calif. Soap. No. 152,091; Feb. 14.
- Los Angeles Soap Co., Los Angeles, Calif. Washing machine soap. No. 152,864; Mar. 7.
- Los Angeles Soap Co., Los Angeles, Calif. Toilet soap. Nos. 153,232-3; Mar. 14.
- Los Angeles Soap Co., Los Angeles, Calif. Laundry soap. No. 162,536; Dec. 19.
- Lottman, C. F., & Sons, Houston, Tex. Mattresses. No. 155,752; June 6.
- Lottman, C. F., & Sons, Houston, Tex. Mattresses. No. 157,706; Aug. 15.
- Louis, Otto F., Bay City, Mich. Poultices and plasters for the treatment of boils, burns, etc. No. 158,251; Aug. 29.
- Louisville Electric Manufacturing Company, Louisville, Ky. Portable electrically-driven tools, electric motors, electric generators, etc. No. 151,533; Feb. 7.
- Louisville Furnishing Goods Co., Louisville, Ky. Certain articles of clothing. No. 160,784; Oct. 24.
- Louisville Furnishing Goods Co., Louisville, Ky. Overalls. No. 161,535; Nov. 14.
- Louisville Knitting Company, Inc., Louisville, Ky. Hosiery. No. 155,753; June 6.
- Louisville Paper Co., Louisville, Ky. Bond paper. No. 158,004; Aug. 22.
- Louisville Times Company, The, Louisville, Ky. Afternoon paper published daily. No. 162,295; Dec. 12.
- Louisville Wall Paper Co. Inc., Louisville, Ky. Dry, ready-mixed, and paste paints, putty, linseed oil, turpentine, etc. No. 162,816; Dec. 26.
- Lounsberry Soule Co., The, New York, N. Y. Leather boots and shoes. No. 156,003; June 13.
- Lournay, Inc., New York, N. Y. Rouge, cold cream, lip stick, toilet water, etc. No. 158,252; Aug. 29.
- Lournay, Inc., New York, N. Y. Rouge, cold cream, lip sticks, toilet water, talcum powder, and perfume. Nos. 158,431-4; Sept. 5.
- Louvre Knitting Mills, Inc., New York, N. Y. Certain articles of clothing. No. 154,615; Apr. 18.
- Loux Sons, Philadelphia, Pa. Household, office, and porch furniture. No. 159,022; Sept. 19.
- Lovejoy, Ralph M., Boston, Mass. Certain vehicle parts and accessories. No. 152,611; Feb. 28.
- Loveman Brothers, New York, N. Y. Curtain fabrics of silk, wool, or cotton. No. 154,314; Apr. 11.
- Loveman Brothers, New York, N. Y. Silk, drapery, and shade cloths and curtain material. No. 154,315; Apr. 11.
- Loveman Brothers, New York, N. Y. Silk, drapery, shade cloth, and curtain materials. No. 156,331; June 20.
- Loveland, Arthur S., doing business as Paradise Appliance Company. Electric dish-washing machines. No. 158,485; Sept. 5.
- Lowe Brothers Company, The, Dayton, Ohio. Flat varnish. No. 150,684; Jan. 3.
- Lowe Brothers Company, The, Dayton, Ohio. Shingle stains. No. 150,685; Jan. 3.
- Lowe Brothers Company, The, Dayton, Ohio. Paste paint. No. 150,686; Jan. 3.
- Lowe Brothers Company, The, Dayton, Ohio. Barn paint. No. 150,687; Jan. 3.
- Lowe Brothers Company, The, Dayton, Ohio. Bridge and roof paint. No. 150,688; Jan. 3.
- Lowe Brothers Company, The, Dayton, Ohio. Steel car and bridge paint. No. 151,034; Jan. 10.
- Lowe Brothers Company, The, Dayton, Ohio. Wall sizing. No. 152,612; Feb. 28.
- Lowe Brothers Company, The, Dayton, Ohio. Varnishes. No. 154,316; Apr. 11.
- Lowe Brothers Company, The, Dayton, Ohio. Substitute for prepared shellac. No. 155,000; May 16.
- Lowe, Henry, Cigar Co., Fort Worth, Tex. Cigars. No. 156,332; June 20.
- Lowe, Joe, Co. Inc., New York, N. Y. Whipping powders or fillers used by bakers. No. 159,419; Sept. 26.
- Lowe, Joe, Co. Inc., New York, N. Y. Dehydrated whole eggs, egg yolk, and egg albumen. No. 159,934; Oct. 10.
- Lowell Company, The, Lowell, Mass., and New York, N. Y. Certain toilet preparations. Nos. 152,215-17; Feb. 21.
- Lowenstein, M. W., & Co. Inc., New York, N. Y. Neckwear. No. 159,023; Sept. 19.
- Lowenthal, David H., & Co., New York, N. Y. Silk dresses. No. 157,138; July 25.
- Lowenwerke A. G., Heilbronn, Wurttemberg, Germany. Preparation for venereal diseases. No. 152,866; Mar. 7.
- Lowman, Eugene M., Orangeburg, S. C. Beverage sold as a soft drink. No. 160,907; Oct. 31.
- Lowman, Eugene M., et al., trustees. (See Lowman, Eugene M., assignor.)
- Lowman, Eugene M., Columbia, S. C., assignor to S. D. McGill, B. C. Vanderhost, E. A. Pottsdamer, S. A. Austin, W. W. Andrews, B. H. Barton, and E. M. Lowman, trustees for the Matay Company, Jacksonville, Fla. Beverage sold as a soft drink. No. 161,891; Nov. 21.
- Lowrie, Alfred W., Hartford, Conn. Certain medicinal oil and ointment. No. 150,454; Jan. 3.
- Lowy Laboratory, Inc., Newark, N. J. Prophylactics, particularly for venereal diseases. No. 152,218; Feb. 21.
- Lloyd Wireless Telephone Corporation, Dover, Del. Wireless transmitting and receiving apparatus. No. 160,908; Oct. 31.
- Lubbers & Bell Mfg. Co., Clinton, Iowa. Fly swatters. Nos. 159,935-7; Oct. 10.
- Lubbers & Bell Mfg. Co., Clinton, Iowa. Solitaire game. No. 160,232; Oct. 17.
- Lublin, Kora M., New York, N. Y. Facial theatrical make-up powder. No. 156,333; June 20.
- Lubraa Oil Corporation. (See Malmstrom, Nils I., assignor.)
- Lucas, H. W., & Co., Cincinnati, Ohio. Fluid for patching fabrics. No. 158,735; Sept. 12.
- Lucas, Louis, Company, Inc., Jamestown, N. Y. Aromatic incense. No. 157,536; Aug. 8.
- Lucas, Louis, Company, Inc., Jamestown, N. Y. Aromatic incense. No. 161,215; Nov. 7.
- Lucati, Alfred, New York, N. Y. Liquid for cleaning floors. No. 151,856; Feb. 14.
- Lucati, Alfred, New York, N. Y. Clothes-washing liquid. No. 151,857; Feb. 14.

Alphabetical list of registrants of trade-marks—Continued.

- Lucati, Alfred, New York, N. Y. Disinfectant. No. 154,087; Apr. 4.
- Lucey Manufacturing Corporation, New York, N. Y., and Pittsburgh, Pa. Serial house-organ publication and also yearly diary. No. 157,537; Aug. 8.
- Luden, William H., Reading, Pa. Menthol cough drops. No. 150,455; Jan. 3.
- Luden, William H., Reading, Pa. Candies and chocolates. No. 154,200; Apr. 4.
- Luden, William H., Reading, Pa. Candies and chocolates. No. 154,616; Apr. 18.
- Luden, William H., Reading, Pa. Candies and chocolates. No. 156,701; July 11.
- Ludlow Manufacturing Associates, Boston, Mass. Jute webbing. No. 159,717; Oct. 3.
- Ludlow Manufacturing Associates, Boston, Mass. Jute bagging. Nos. 160,785-8; Oct. 24.
- Ludlow Manufacturing Associates, Boston, Mass. Jute bagging. Nos. 161,216-17; Nov. 7.
- Ludlow Manufacturing Associates, Boston, Mass. Jute webbing. No. 161,536; Nov. 14.
- Ludlow Manufacturing Associates, Boston, Mass. Twine. No. 161,710; Nov. 14.
- Ludlow Manufacturing Associates, Boston, Mass. Twine. No. 162,439; Dec. 12.
- Ludlum Steel Company, Watervliet, N. Y. Tool steel, alloy steel, and alloy tool steel. No. 152,092; Feb. 14.
- Ludlum Steel Company, Watervliet, N. Y. Alloy steel, punch and die steel, and alloy punch and die steel. No. 152,093; Feb. 14.
- Ludlum Steel Company, Watervliet, N. Y. Alloy steel. Nos. 159,420-1; Sept. 26.
- Ludlum Steel Company, Watervliet, N. Y. Alloys used for electrical resistance and heating elements. No. 161,537; Nov. 14.
- Ludwig Hommel & Co., Pittsburgh, Pa. Radio or wireless telephone apparatus and equipment, transmitting apparatus, receiving sets, and parts thereof. No. 162,296; Dec. 12.
- Ludwig Hupfied Aktiengesellschaft, Bohlitz-Ehrenberg, Germany. Certain musical instruments and supplies. No. 158,253; Aug. 29.
- Ludwig & Ludwig, Chicago, Ill. Certain musical, percussion, and similar instruments. No. 156,597; July 4.
- Luke, George A., Winthrop, Mass. Metal polish. No. 153,234; Mar. 14.
- Lukert, William, Moriches, N. Y. Live and dressed poultry. No. 151,534; Feb. 7.
- Luminite Company, The, New York, N. Y. Timepieces. No. 151,535; Feb. 7.
- Lund, Florence E., Chicago, Ill. Corsets and brassières. No. 156,702; July 11.
- Lundborg Inc., New York, N. Y. Certain toilet preparations. No. 155,337; May 23.
- Lundeen, Ernest, Minneapolis, Minn. Monthly publication. No. 153,484; Mar. 21.
- Lunep Lace & Embroidery Co., South River, N. J. Pillowcases and bed wear. No. 161,797; Nov. 21.
- Lunkenheimer Company, The, Cincinnati, Ohio. Certain machines and parts of machinery. No. 159,422; Sept. 26.
- Lunn & Sweet Company, Auburn, Me. Leather shoes. No. 159,024; Sept. 19.
- Luporini Bros., New York, N. Y. Photographic films. No. 161,798; Nov. 21.
- Lurie Co. Inc., The, New York, N. Y. Dresses. No. 162,013; Nov. 28.
- Lurie Manufacturing Co., Chicago, Ill. Overalls, shirts, undershirts, and pants. No. 161,538; Nov. 14.
- Lustrex Products Co., Oradeel, N. J. Furniture polish. No. 158,736; Sept. 12.
- Lustrite Corporation, The, Brooklyn, N. Y. Certain toilet preparation. No. 150,456; Jan. 3.
- Lutz Bros., Allegheny, Pa., assignor to Lutz & Schramm Company. Pickles and relishes. No. 19,486; renewed May 12, 1921.
- Lutz & Schramm Company. (See Lutz Bros., assignor.)
- Luzzi, August E., Houston, Tex. Pyorrhea cream and tooth paste. No. 153,783; Mar. 28.
- Lycoming Motors Corporation, Williamsport, Pa. Internal-combustion engines and motors. No. 161,892; Nov. 21.
- Lykglas Auto Renewal System, Inc., Indianapolis, Ind. Ready-mixed paint and varnish for automobiles and automobile bodies. No. 158,739; Sept. 12.
- Lyko Medicine Company, Dover, Del., and Kansas City, Mo. Antiseptic preparations. No. 155,754; June 6.
- Lyle, Charles, Memphis, Tenn. Kidney and liver medicine. No. 153,784; Mar. 28.
- Lynch Heel Company, Chelsea, Mass. Rubber heels. No. 161,218; Nov. 7.
- Lynch, Minnie, Orange, N. J. Toilet soap. No. 155,755; June 6.
- Lyndon Chemical Company, The, Dayton, Ohio. Ointment for aches, pains, boils, colds, etc. No. 154,088; Apr. 4.
- Lyndon Chemical Company, The, Dayton, Ohio. Veterinary ointment. No. 158,254; Aug. 29.
- Lyndon Chemical Company, The, Dayton, Ohio. Germicide disinfectant and deodorizer for expelling insects and the like from animals. No. 159,938; Oct. 10.
- Lynx Knitting Mills. (See Boehm, A.)
- Lyon Botanical Co. Inc., The, New York, N. Y. Insect powder. No. 150,257; Jan. 3.
- Lyon & Healy, Chicago, Ill. Cornets. No. 154,201; Apr. 4.
- Lyon & Healy, Chicago, Ill. Talking machines and music boxes. No. 156,703; July 11.
- Lyon, Julian W., & Co., New York, N. Y. Thymol, menthol, chlorophyll, essential oils suitable for production of perfumes, etc. No. 158,005; Aug. 22.
- Lyons, Bertha E. C., Belmar, N. J. Nonalcoholic maltless preparation for making beverages. No. 154,089; Apr. 4.
- Lysander, Kemp & Sons Inc., Boston, Mass. Soap flakes. No. 162,797; Dec. 26.
- Lyewyre Company, The, Washington, D. C., and Vidalia, Ga. Liquid charge for storage batteries. No. 160,909; Oct. 31.
- M. & M. Compounding Company, The, Hoboken, N. J. Medicine for the treatment of rheumatism, etc. No. 151,297; Jan. 24.
- M. & M. Wood Working Co., Portland, Oreg. Stools. No. 162,539; Dec. 19.
- M. & N. Co., The, Washington, D. C. Glove-cleaning soaps. No. 157,708; Aug. 15.
- M-P-Co., Concord, N. H. Composition for cleaning metal ware, clothing, and gloves. No. 155,769; June 6.
- M. & S. Co., New York, N. Y. Massage cream for softening and beautifying the skin. No. 151,551; Feb. 7.
- Maag, August, Company, The, Baltimore, Md. Tinned bake pans. No. 161,743; Nov. 21.
- Maass & Kemper, Inc., Baltimore, Md. Middy blouses, children's dresses, boys' wash suits. No. 158,007; Aug. 22.
- Mabie, Todd & Co., New York, N. Y. Lead pencils. No. 153,379; Mar. 14.
- Macaroni Foods Corporation, Omaha, Nebr. Macaroni and spaghetti, also egg noodles. No. 151,858; Feb. 14.
- Macaulay, John, Detroit, Mich. Hop barley malt sugar sirup for the manufacture of a beverage. No. 152,453; Feb. 28.
- Macallum, James, jr., St. Louis, Mo. Device for indicating liquid level in tanks by fluid pressure. No. 162,540; Dec. 19.
- MacDermid, Charles A., Boston, Mass. Separating solution for dental plasterwork. No. 159,943; Oct. 10.
- Macdonald, John, & Son Limited, Glasgow, Scotland. Foundry molding machines. No. 161,962; Nov. 28.
- Macedonia Tobacco Co., San Francisco, Calif. Cigars, cigarettes, and smoking tobacco. No. 151,035; Jan. 10.
- Mach, Benjamin W., Chicago, Ill. Penholders. No. 157,624; Aug. 8.
- MacHatton, Ralph A., Chicago, Ill. Garters. No. 155,477; May 30.
- Macher, J., successor. (See Macher, Jacob.)
- Macher, Jacob, doing business as J. Macher, successor, New York, N. Y. Watchcases. No. 22,667; renewed Mar. 21, 1923.
- Machunze, Henry F., Brooklyn, N. Y. Preparation for the treatment of rheumatism, gout, etc. No. 160,912; Oct. 31.
- Mack Engineering & Supply Co. Inc. (See Mack Engineering & Supply Co., assignor.)
- Mack Engineering & Supply Co., New York, N. Y., assignor to Mack Engineering & Supply Co. Inc., New York, N. Y. Fireproof cement. No. 154,090; Apr. 4.
- Mack, O. C., and Co. (See Mack, Oscar C.)
- Mack, Oscar C., doing business as O. C. Mack and Co., St. Louis, Mo. Chemical for testing woolen and silk fabrics. No. 158,581; Sept. 5.
- Mackay, D. S., & Co., New York, N. Y. Woolen piece goods for coatings. No. 161,541; Nov. 14.
- Mackay, John, & Co. Limited, Edinburgh and Glasgow, Scotland, and Newcastle-on-Tyne, England. Extract of kola, coffee, and chicory. No. 159,426; Sept. 26.
- Macke, F. W., & Co., Kokomo, Ind. Pipe, monkey, automobile, and bicycle wrenches. No. 162,097; Dec. 5.
- Mackenzie, Robt. F., Co., The, Cleveland, Ohio. Bar candy. No. 152,095; Feb. 14.
- Mackenzie, Robt. F., Co., The, Cleveland, Ohio. Candy. No. 156,004; June 13.
- Mackey, A. G., doing business as The Automac Company, Washington, D. C. Bill-file holders, pad and memoranda holders for desks, etc. No. 160,569; Oct. 24.
- Mackey, Frank J., Frankfort, Ind. Cigars. No. 150,890; Jan. 10.
- Mackey, J. L., Charleston, Tenn. Medicine for use in the treatment of headaches, etc. No. 151,539; Feb. 7.
- Mackie Pine Oil Specialty Co. Inc., Covington, La. Certain medicinal preparation. No. 152,221; Feb. 21.
- Mackie Pine Oil Specialty Co. Inc., Covington, La. Remedy for coughs, colds, cuts, stings, etc. No. 154,319; Apr. 11.
- MacLachlan-Fowler Baking Co., Hibbing, Minn. Bread. No. 152,867; Mar. 7.
- Macleod, William A., et al., trustees and their successors. (See Florence Manufacturing Company.)
- MacNamara, Edward T., Gretna, La. Flower fertilizer. No. 158,744; Sept. 12.
- Macniven and Cameron Limited, Edinburgh, Scotland. Writing and note paper, envelopes, etc. No. 160,570; Oct. 24.
- Maconochie Bros., Lowestoft, England. Canned goods. Nos. 20,276-7; renewed Oct. 27, 1921.
- MacPherson, Warren, doing business as Cambridge Rubber Company, Cambridge, Mass. Raincoats. No. 158,008; Aug. 22.

- Macungie Shoe Manufacturing Company, Macungie, Pa. Infants' and children's turn shoes and slippers. No. 155,159; May 16.
- Macwhyte Company, Kenosha, Wis. Wire rope. No. 151,342; Jan. 31.
- Macwhyte Company, Kenosha, Wis. Metal wire, ferrous and nonferrous. No. 156,339; June 20.
- Macy, R. H., & Co. Inc., New York, N. Y. Aprons. Nos. 154,620-21; Apr. 18.
- Macy, R. H., & Co., New York, N. Y. Garters. No. 155,575; May 30.
- Macy, R. H., & Co., Inc., New York, N. Y. Sheets and pillowcases. No. 159,030; Sept. 19.
- Macy, R. H., & Co., Inc., New York, N. Y. Aprons. No. 160,234; Oct. 17.
- Ma-Da-Ho Drug Co., Cincinnati, Ohio. Vanishing cream. No. 154,320; Apr. 11.
- Maddock's, Thomas, Sons Company, Trenton, N. J. Certain plumbing supplies and bathroom trimmings and fittings. No. 159,427; Sept. 26.
- Madison Mills, Inc., New York, N. Y. Dress, negligee, work shirts, and underwear. No. 155,338; May 23.
- Madison Piano Company Inc., New York, N. Y. Pianos, electric, reproducing and player. No. 155,160; May 16.
- Madolene Pickle Corporation, Newport News, Va. Pickles. No. 156,005; June 13.
- Magazine Corporation, The, Indianapolis, Ind., and New York, N. Y. Monthly magazine publication. No. 151,859; Feb. 14.
- Magee, Allan A., Montreal, Quebec, Canada. Horses on wheels for children. No. 159,450; Sept. 26.
- Magee Furnace Company, Boston, Mass. Combination stoves or ranges heated by the burning of combustible fuel and electricity. No. 162,819; Dec. 26.
- Maggi Co., The, Kempttal, Zurich, Switzerland. Seasonings for soups, consommé, sauces, etc. No. 151,860; Feb. 14.
- Maggi Co., The, Kempttal, Zurich, Switzerland. Seasonings for soups, sauces, etc. No. 154,622; Apr. 18.
- Maggioni, L. P., & Co., Savannah, Ga. Oysters and canned oysters. No. 160,571; Oct. 24.
- Magic Nail Polish Co., New York, N. Y. Nail-polish liquid, powder, and cake. No. 158,256; Aug. 29.
- Magill, Samuel N., Inc., Philadelphia, Pa. Underskirts and petticoats. No. 161,542; Nov. 14.
- Magland, Solomon, Chicago, Ill. Ointment for the treatment of sunburn, tan, freckles, pimples, etc. No. 151,540; Feb. 7.
- Magna Metal Corporation, Newark, N. J. Magnesium alloys and castings and forgings produced therefrom. No. 155,250; May 23.
- Magna Metal Corporation, Newark, N. J. Magnesium alloys and castings and forgings produced therefrom. No. 159,428; Sept. 26.
- Magnavox Co., The, Oakland, Calif. Certain electrical apparatus. No. 153,238; Mar. 14.
- Magnavox Company, The, Oakland, Calif. Telephone and radio receiving sets. Nos. 158,488-90; Sept. 5.
- Magnesia Company, The, Lynchburg, Va. Antacid and aperient. No. 152,094; Feb. 14.
- Magnesium Products Co. Inc., New York, N. Y. Cream of magnesia. No. 154,091; Apr. 4.
- Magnesium Products Co. Inc., New York, N. Y. De-carbonizer for internal-combustion engines. No. 154,092; Apr. 4.
- Magnetic Drink Mixer Company, Boston, Mass. Electrical drink mixers. No. 161,219; Nov. 7.
- Magneto Attachment Co. Inc., New York, N. Y. Attachments for fitting magnetos to internal-combustion engines and magneto drive couplings therefor. No. 152,454; Feb. 28.
- Magnin, L., & Co., San Francisco, Calif., and New York, N. Y. Toilet cream. No. 155,478; May 30.
- Magnin, L., & Co., San Francisco, Calif. Toilet preparations. No. 158,009; Aug. 22.
- Magno Storage Battery Co., Brooklyn, N. Y. Electric batteries. No. 155,757; June 6.
- Magnolia Metal Company, New York, N. Y. Babbitt, bearing, and antifricition metals and alloys. No. 159,429; Sept. 26.
- Magnolia Textile Corporation, New Orleans, La. Sewing-yarn. No. 152,868; Mar. 7.
- Magnum Import Co., Inc., New York, N. Y. Perfumes, toilet waters, face powders, etc. No. 160,913; Oct. 31.
- Magnus Electric Co. Inc., New York, N. Y. Electrical plugs, attachment plugs, caps, etc. No. 158,491; Sept. 5.
- Magnus, S. W., & Co., New York, N. Y. Handkerchiefs. No. 161,543; Nov. 14.
- Magnuson X-ray Company, Omaha, Nebr. Barium sulphate. No. 156,340; June 20.
- Maguire & Co. Inc., New York, N. Y. Certain piece goods. No. 153,489; Mar. 21.
- Mahoning Foundry Co., The, Youngstown, Ohio. Coal, wood, gas, and oil furnaces, and stoves. No. 159,944; Oct. 10.
- Maid-Well Garment Company, Forrest City, Ark. Ladies' misses', and children's dresses and aprons. No. 154,448; Apr. 11.
- Maignen Chemical Company, Kansas City, Mo. Compound for treatment of the mucous membrane. No. 160,914; Oct. 31.
- Mailander and Company. (See Mailander, Fred A.)
- Mailander, Fred A., doing business as Mailander and Company, Waco, Tex. Store display counters, cases, and cabinets. No. 162,301; Dec. 12.
- Maillard, Henry, Inc., New York, N. Y. Chocolate confections. No. 154,772; May 2.
- Mains & Grebenstein, Inc., New York, N. Y. Combination silk and cotton piece goods. No. 154,321; Apr. 11.
- Mainzer, Adolf, New York, N. Y. Apricot marmalade. No. 152,869; Mar. 7.
- Majestic Manufacturing Company, St. Louis, Mo. Certain store furniture. No. 159,031; Sept. 19.
- Makepeace, B. L., Incorporated, Boston, Mass. Blue-print papers, sensitized cloth and paper. No. 161,893; Nov. 21.
- Malay Rubber Company, The, Cleveland, Ohio. Tires and tire casings made of rubber having cord or fabric linings and tubes. No. 160,791; Oct. 24.
- Malkins, H., Sons, New York, N. Y. Shoes, boots, slippers, and sandals. No. 156,137; June 13.
- Mall Dunn Medicine Company, Boston, Mass. Reconstructive tonic. No. 159,690; Oct. 3.
- Mall Dunn Medicine Company, Boston, Mass. Medicinal preparation. No. 161,220; Nov. 7.
- Malley, Edw., Co., The, New Haven, Conn. Veiling by the piece. No. 150,461; Jan. 3.
- Mallinckrodt Chemical Works, St. Louis, Mo. Developer for photographic purposes. No. 153,010; Aug. 22.
- Mallinckrodt Chemical Works, St. Louis, Mo. Product used for the treatment of skin disease. No. 162,302; Dec. 12.
- Mallinson Bros., West Salem, Ill. Wheat flour, hard-wheat flour, pastry flour, cake flour, and bran. No. 159,945; Oct. 10.
- Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. No. 150,462; Jan. 3.
- Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. No. 152,455; Feb. 28.
- Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. Nos. 153,490-1; Mar. 21.
- Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. No. 155,003; May 16.
- Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. No. 155,251; May 23.
- Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. No. 156,341; June 20.
- Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. No. 158,011; Aug. 22.
- Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. No. 158,745; Sept. 12.
- Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. Nos. 159,032-3; Sept. 19.
- Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. No. 159,718; Oct. 3.
- Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. No. 160,101; Oct. 10.
- Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. Nos. 161,544-5; Nov. 14.
- Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. No. 162,820; Dec. 26.
- Mallory, Albert C., Brooklyn, N. Y. Medicinal preparation for certain uses. No. 150,463; Jan. 3.
- Mallory, Marion, Milwaukee, Wis. Spark timers for internal-combustion engines. No. 161,894; Nov. 21.
- Malloy, Irene, Hat Company, Fort Wayne, Ind. Women's hats. No. 156,342; June 20.
- Malmed, A. T., doing business as Hy-Test Cement Co., Philadelphia, Pa. Building cement. No. 162,440; Dec. 12.
- Malmken, Louis, doing business as Amsterdam Candy Co., Brooklyn, N. Y. Chocolate taffy. No. 162,300; Dec. 12.
- Malmstrom, Nils I., assignor to Lubraa Oil Corporation, New York, N. Y. Lubricating oils and greases. No. 151,343; Jan. 31.
- Malouf, Abraham, New York, N. Y. Garters. No. 161,371; Nov. 7.
- Malt-Diastase Company, New York, N. Y. Concentrated liquid malt extracts. No. 151,135; Jan. 24.
- Malt-Diastase Company, New York, N. Y. Liquid and concentrated malt extracts. No. 156,485; June 20.
- Malt-Diastase Company, New York, N. Y. Concentrated liquid malt extracts. No. 159,430; Sept. 26.
- Malt Extract Co., St. Louis, Mo. Hops. No. 156,535; June 27.
- Management Magazines Incorporated, Chicago, Ill. Periodicals published monthly. No. 162,541; Dec. 19.
- Manahan Moth Paper Co. (See Manahan, Thomas, as signor.)
- Manahan, Thomas, assignor to Manahan Moth Paper Co., New York, N. Y. Moth-proof clothes bags. No. 150,322; Apr. 11.
- Manas, Carl, New York, N. Y. Malted milk. No. 154,773; May 2.
- Manchester Shoe Company, Baltimore, Md. Leather shoes. No. 154,202; Apr. 4.
- Mandalian, Sabatier G., North Attleboro, Mass. Chatelaine bags and purses and the constituent parts of the same. No. 151,344; Jan. 31.
- Mandel Brothers, Chicago, Ill. Dresses and aprons. No. 160,235; Oct. 17.
- Manhattan Briar Pipe Company, New York and Brooklyn, N. Y. Pipes for smoking. No. 152,870; Mar. 7.

Alphabetical list of registrants of trade-marks—Continued.

- Manhattan Rubber Mfg. Co., The, Passaic, N. J. Machine belting. No. 156,536; June 27.
- Manhattan Rubber Mfg. Co., The, Passaic, N. J. Rubber belting and hose. No. 157,144; July 25.
- Manhattan Rubber Mfg. Co., The, Passaic, N. J. Rubber soles and heels. No. 158,501; Sept. 5.
- Manhattan Rubber Mfg. Co., The, Passaic, N. J. Brake lining. No. 159,946; Oct. 10.
- Manion, James P., Fort William, Ontario, Canada. Medical preparation for colds, flu, and la grippe. No. 153,786; Mar. 28.
- Mann, Samuel, & Bros. Inc., New York, N. Y. Dry-air refrigerators. No. 151,036; Jan. 10.
- Mann, William, Company, Philadelphia, Pa. Checks, check-book cases, check-book covers, safety paper. No. 160,740; Oct. 24.
- Manna Products Co., Minneapolis, Minn. Soap. No. 152,871; Mar. 7.
- Manning Abrasive Company Incorporated, Troy and New York, N. Y. Abrasives. No. 162,542; Dec. 19.
- Manning, Maxwell & Moore, Inc. (See Hayden & Derby Mfg. Company, The, assignor.)
- Manning, Maxwell & Moore, Inc., New York, N. Y. Pressure, steam, hydraulic, Bourdon-tube, etc., gauges. No. 161,800; Nov. 21.
- Manowitz, J., & Sons, New York, N. Y. Linen-duck padding in the piece. No. 150,464; Jan. 3.
- Mansfield, James F., New York, N. Y. Watches and clocks. No. 161,546; Nov. 14.
- Mansfield Milling Co., Inc., The, Mansfield, Ohio. Wheat flour. No. 153,600; Mar. 21.
- Mansfield Piano Co., New York, N. Y. Pianos and player pianos. No. 152,096; Feb. 14.
- Mantrose Corporation, The, New York, N. Y. Prepared shellac substitute. No. 155,004; May 16.
- Mantson, Frank X., Philadelphia, Pa. Certain medicinal preparation. No. 157,538; Aug. 8.
- Manufacturers. (See Cockatoo Preserves Limited.)
- Manufacturers Iron & Steel Company. (See Bryden Horse Shoe Company, assignor.)
- Manufacturers Oil & Grease Co., The, Cleveland, Ohio. Lubricating oils. No. 162,969; Dec. 26.
- Manufacturers' Phonograph Co., Inc., New York, N. Y. Phonographs. No. 155,252; May 23.
- Manufacturing Company of America, Philadelphia, Pa. Candy. No. 151,861; Feb. 14.
- Manufacturing Company of America, Philadelphia, Pa. Candy. No. 157,709; Aug. 15.
- Manville Company, Providence, R. I. Cotton piece goods. No. 154,323; Apr. 11.
- Mappin & Webb Limited, Sheffield and London, England. Certain articles of precious-metal ware. No. 155,479; May 30.
- Mappin & Webb Limited, London and Sheffield, England. Plate powder. No. 155,758; June 6.
- Mappin & Webb Limited, Sheffield and London, England. Scent-bottle screws—i. e., bottle closures. No. 160,572; Oct. 24.
- Mappin & Webb Limited, Sheffield and London, England. Tableware. No. 161,547; Nov. 14.
- Mappin & Webb Limited, Sheffield and London, England. Tableware. No. 162,303; Dec. 12.
- Mappin & Webb Limited, Sheffield and London, England. Manicure scissors, nail clippers, files, and tweezers. No. 162,543; Dec. 19.
- Mappin & Webb Limited, Sheffield and London, England. Lancets, fleams, surgical scissors, and surgical cutlery generally. No. 162,544; Dec. 19.
- Marathon Tire & Rubber Company, Cuyahoga Falls, Ohio. Composition soling material. No. 151,862; Feb. 14.
- Marathon Tire and Rubber Company, The, Cuyahoga Falls, Ohio. Golf-stick grips. No. 154,093; Apr. 4.
- Marathon Tire & Rubber Company, The, Cuyahoga Falls, Ohio. Belt buckles not precious metals. No. 155,759; June 6.
- Marathon Tire & Rubber Company, The, Cuyahoga Falls, Ohio. Leather, fabric, or rubber belts for supporting outer garments. No. 155,760; June 6.
- Marble, B. L., Chair Company, The, Bedford, Ohio. Office and household chairs, settees, costumers, sofas. No. 153,492; Mar. 21.
- Marblehead Lime Co., Chicago, Ill. Lime. No. 161,372; Nov. 7.
- Marcel, Francois R., Brooklyn, N. Y. Hair dye. No. 152,222; Feb. 25.
- Marcel, Francois R., Brooklyn, N. Y. Oily preparation for producing permanent waves in the human hair. Nos. 152,223-4; Feb. 21.
- Marcelle Corporation, The, Philadelphia, Pa. Misses' and women's dresses. No. 158,012; Aug. 22.
- Marcus Bros., New York, N. Y. Cotton piece goods. No. 154,623; Apr. 18.
- Marcus, Eugene H., Los Angeles, Calif. Glandular preparation. No. 153,787; Mar. 28.
- Marcus, Forscher & Co., New York, N. Y. Sole leather, upper leather, hides, and skins. No. 156,007; June 13.
- Marcus, Samuel M., Chicago, Ill. Cigarettes. No. 154,094; Apr. 4.
- Marcus, Samuel M., Chicago, Ill. Medicines used as a general tonic. No. 155,576; May 30.
- Marcus & Smith, New York, N. Y. Powder puffs. Nos. 151,186-9; Jan. 24.
- Marcus & Smith, New York, N. Y. Powder puffs. No. 152,456; Feb. 28.
- Marcus & Smith, New York, N. Y. Powder puffs. No. 160,344; Oct. 17.
- Marcy, Ira, Oil City, Pa. Cement glue for gluing china, glassware, wood, etc. No. 150,465; Jan. 3.
- Marecki, Frank J., Baltimore, Md. Medicinal preparation for certain purposes. No. 152,097; Feb. 14.
- Margosian, John H., Milford, Mass. Medicinal preparation for certain uses. No. 150,466; Jan. 3.
- Mari-Bell Sweets, Minneapolis, Minn. Candies. No. 156,006; June 13.
- Marie Djang-lure Co., Seattle, Wash. Toilet (face) powder. No. 152,308; Feb. 21.
- Marietta Paint & Color Co., The, Marietta, Ohio. Automobile paints, paint enamels, varnish, ground color, etc. No. 150,891; Jan. 10.
- Marine Decking & Supply Company, Philadelphia, Pa. Paints of ready-mixed form and varnishes, fillers, paint pigments and vehicles, driers and chrome. No. 158,746; Sept. 12.
- Marinello Company, La Crosse, Wis. Wrinkle paste. No. 160,915; Oct. 31.
- Marion Foundry Corporation, Marion, Ind. Solid-fuel furnaces, grate frames, grate bars, etc. No. 159,948; Oct. 10.
- Mariott, John E., Latrobe, Pa. Medicines for treatment of sore gums, toothache, etc. No. 158,013; Aug. 22.
- Mark, Louis, Philadelphia, Pa. Shoes of leather, etc. No. 151,190; Jan. 24.
- Mark Manufacturing Company, Chicago, Ill. Cup leathers. No. 160,916; Oct. 31.
- Markatos, Spiros C., New York, N. Y. Chemical compound for bleaching hats. No. 153,788; Mar. 28.
- Markem Machine Co., Boston, Mass. Marking machines. No. 161,548; Nov. 14.
- Markham, John W., Jacksonville, Fla. Specially-designed bookkeeping blank forms and binders suited to the needs of bottling plants. No. 151,395; Jan. 31.
- Markman, Simon, New York, N. Y. Face and lip rouge. No. 158,492; Sept. 5.
- Markman, Simon, New York, N. Y. Cosmetic for treating the eyebrows. No. 158,493; Sept. 5.
- Markman, Simon, New York, N. Y. Shampoo and hair wash. No. 159,719; Oct. 3.
- Markowitz & Bloom, New York, N. Y. Certain articles of clothing. No. 154,624; Apr. 18.
- Marlin Firearms Corporation, The, New Haven, Conn. Rifles and shotguns. No. 156,584; July 4.
- Marotta, Alfonso, East Boston, Mass. Remedy for indigestion. No. 159,949; Oct. 10.
- Marquette Cement Manufacturing Co., Chicago, Ill. Portland cement. No. 160,593; Oct. 24.
- Marre y Cia., Buenos Aires, Argentina. Cheese and butter. No. 152,872; Mar. 7.
- Marret, Bonnin, Lebel & Guieu, Paris, France. 18-carat-gold alloy for jewelry and jewelers' goods. No. 150,892; Jan. 10.
- Marret, Bonnin, Lebel & Guieu, Paris, France. Alloys for use in the manufacture of jewelry and jewelers' goods. No. 161,549; Nov. 14.
- Mars Grand Rug Co., The, Pawtucket, R. I. Rugs, carpets, and other textile floor coverings. No. 162,821; Dec. 26.
- Marsalisse, B., Chemical Mfg. Co. (See Marsalisse, Ben.)
- Marsalisse, Ben, De Ridder, La. Foot powder. No. 154,324; Apr. 11.
- Marsalisse, Ben, doing business as B. Marsalisse Chemical Mfg. Co., De Ridder, La. Liniment for use in treatment of backache, headache, rheumatism, etc. No. 161,221; Nov. 7.
- Marsh Motor Car Company, Cleveland, Ohio. Passenger automobiles. No. 152,225; Feb. 21.
- Marshall Field & Company, Chicago, Ill. Sheets and pillow cases. No. 150,893; Jan. 10.
- Marshall Field & Company, Chicago, Ill. Apparel fabrics. No. 150,894; Jan. 10.
- Marshall Field & Company, Chicago, Ill. Bedspreads. No. 152,226; Feb. 21.
- Marshall Field & Company, Chicago, Ill. Nainsook piece goods. No. 152,317; Feb. 21.
- Marshall Field & Company, Chicago, Ill. Sheets and pillowcases. No. 152,318; Feb. 21.
- Marshall Field & Company, Chicago, Ill. Bedspreads. No. 153,789; Mar. 28.
- Marshall Field & Company, Chicago, Ill. Bedspreads. No. 155,005; May 16.
- Marshall Field & Company, Chicago, Ill. Alarm clocks. No. 155,253; May 23.
- Marshall Field & Company, Chicago, Ill. Cambric piece goods. No. 155,480; May 30.
- Marshall Field & Company, Chicago, Ill. Piece goods—namely, cotton cloth. No. 155,481; May 30.
- Marshall Field & Company, Chicago, Ill. Muslin piece goods. No. 155,482; May 30.
- Marshall Field & Company, Chicago, Ill. Sheets. No. 155,577; May 30.
- Marshall Field & Company, Chicago, Ill. Witch-hazel. No. 156,343; June 20.
- Marshall Field & Company, Chicago, Ill. Women's and girls' underwear, shirt waists, infants' underwear and dresses. No. 156,891; July 18.
- Marsana, Field & Company, Chicago, Ill. Toilet paper. No. 157,358; Aug. 1.
- Marshall Field & Company, Chicago, Ill. Muslin in the piece. No. 157,539; Aug. 8.

- Marshall Field & Company, Chicago, Ill. Electric lamps. No. 158,352; Aug. 29.
- Marshall Field & Company, Chicago, Ill. Alarm clocks. No. 158,494; Sept. 5.
- Marshall Field & Company, Chicago, Ill. Toilet soap. No. 159,202; Sept. 19.
- Marshall Field & Company, Chicago, Ill. Muslin, cambric, nainsook, and long cloth, all in the piece. No. 159,720; Oct. 3.
- Marshall Field & Company, Chicago, Ill. Writing paper and envelopes. Nos. 160,573-4; Oct. 24.
- Marshall Field & Co., Chicago, Ill. Writing tablets and papeteries. No. 160,917; Oct. 31.
- Marshall Field & Company, Chicago, Ill. Tickings, piece goods. No. 161,222; Nov. 7.
- Marshall Field & Company, Chicago, Ill. Piece goods—namely, muslin. No. 161,223; Nov. 7.
- Marshall Field & Company, Chicago, Ill. Wilton rugs. No. 161,224; Nov. 7.
- Marshall Field & Company, Chicago, Ill. Cotton dress goods in the piece. No. 161,225; Nov. 7.
- Marshall Field & Company, Chicago, Ill. Muslins. No. 161,550; Nov. 14.
- Marshall Field & Company, Chicago, Ill. Bedspreads and pillow shams. Nos. 161,551-5; Nov. 14.
- Marshall Field & Company, Chicago, Ill. Piece goods—viz, cretonne. No. 161,556; Nov. 14.
- Marshall Field & Company, Chicago, Ill. Hair nets. No. 161,557; Nov. 14.
- Marshall Field & Company, Chicago, Ill. Body brussels rugs. No. 161,711; Nov. 14.
- Marshall Field & Company, Chicago, Ill. Button machines, molds, and dies. No. 161,801; Nov. 21.
- Marshall Field & Company, Chicago, Ill. Ladies' hosiery. No. 162,443; Dec. 12.
- Marshall Field & Company, Chicago, Ill. Certain glassware. No. 162,644; Dec. 19.
- Marshall Field & Company, Chicago, Ill. Writing paper and envelopes. No. 162,545; Dec. 19.
- Marshall Field & Company, Chicago, Ill. Wilton rugs. No. 162,546; Dec. 19.
- Marshall Field & Company, Chicago, Ill. Silk and cotton mixed piece goods. No. 162,547; Dec. 19.
- Marshall Field & Company, Chicago, Ill. Bedspreads and pillow shams. Nos. 162,822-4; Dec. 26.
- Marshall, John B., Catonsville, Md. Catamenial bandages. No. 155,006; May 16.
- Marshall Oil Company of Iowa, Marshalltown, Iowa. Wrenches and sprayers. No. 153,790; Mar. 21.
- Marshall Oil Company of Iowa, Marshalltown, Iowa. Belt dressing. No. 155,761; June 6.
- Marshall-Wells Company, Duluth, Minn. Children's express and coaster wagons. No. 152,457; Feb. 28.
- Marston-Greening Co. Inc., Los Angeles, Calif. Certain sirups and soft drinks. No. 153,239; Mar. 14.
- Marston-Greening Company, Inc., Los Angeles, Calif. Nuts and popcorn. No. 156,344; June 20.
- Marston-Greening Co. Inc., Los Angeles, Calif. Food colors. No. 156,345; June 20.
- Marston, Howard F., et al., trustees. (See Lecar Carbon Company, assignor.)
- Martin Band Instrument Company, Elkhart, Ind. Saxophones, clarinets, piccolos, flutes, and horns. No. 155,161; May 16.
- Martin, Robert F., Corporation, New York, N. Y. Bricks. No. 160,348; Oct. 17.
- Martin Sons and Company Limited, Lindley, borough of Huddersfield, England. Cloths and stuffs of wool, worsted, or hair. No. 158,014; Aug. 22.
- Martin, W. E., Chicago, Ill. Bluing compound. No. 152,227; Feb. 21.
- Martin, W. L., Broom & Mop Co., Louisville, Ky. Brooms. Nos. 155,007-9; May 16.
- Martin and Martin, Chicago, Ill. Men's, women's and children's leather shoes. No. 158,500; Sept. 5.
- Martin and Newnom, Flint, Mich. Medicinal preparation used in the treatment of diseases of women. No. 158,015; Aug. 22.
- Martin's, John, House, Inc., New York, N. Y. Dolls and certain games. No. 152,873; Mar. 7.
- Martin's, John, House, Inc., New York, N. Y. Magazines, books, booklets, pamphlets, catalogues. No. 157,540; Aug. 8.
- Martin's, John, House, Inc., New York, N. Y. Magazines published monthly. No. 158,986; Sept. 19.
- Martindell, Charlotte S., Chicago, Ill. Foot balm, sun burn cream, etc. No. 154,325; Apr. 11.
- Martinez, Antonio, Jacksonville, Fla. Cigars. No. 161,963; Nov. 28.
- Martyn Soap Company Inc., New Orleans, La. Shampoo preparation. No. 154,095; Apr. 4.
- Marvel Compound Company, San Jose, Calif. Boiler, gas-engine, and radiator compound. No. 150,467; Jan. 3.
- Marvel Shock Absorber Corporation, The, Cleveland, Ohio. Shock absorbers for automobiles. No. 157,145; July 25.
- Marvel Specialties Company. (See Diver, Pauline L.)
- Marvel Underwear Co. Inc., Mount Vernon, N. Y. Men's athletic nainsook union suits. No. 154,625; Apr. 18.
- Marvelle Toilet Company, Orrville, Ohio. Hair shampoo. No. 153,791; Mar. 28.
- Mar-Vello Remedies Co., Tiffin, Ohio. Antifat medicine. No. 152,359; Aug. 1.
- Marvellum Company, The, Holyoke, Mass. Cover paper. No. 159,431; Sept. 26.
- Marvellum Company, The, Holyoke, Mass. Cover paper. Nos. 160,918-19; Oct. 31.
- Marx & Haas Clothing Company, St. Louis, Mo. Certain articles of clothing. No. 154,626; Apr. 18.
- Marx, Louis N., New York, N. Y. Imitation-pearl necklaces. No. 158,257; Aug. 29.
- Maryland Creamery Co., The, Baltimore, Md. Ice cream. No. 160,792; Oct. 24.
- Maryland Shoe Corporation, Baltimore, Md. Leather and canvas shoes. No. 161,226; Nov. 7.
- Maryland Shoe Corporation, Baltimore, Md. Leather and canvas shoes. No. 161,558; Nov. 14.
- Marzahl, William H., Jersey City, N. J. Laundry bleaching and disinfecting fluid. No. 154,326; Apr. 11.
- Masco Drug Company, Boston, Mass. Certain medicinal tablets. No. 156,008; June 13.
- Masco Drug Company, doing business as Masco Laboratories, Boston, Mass. Chemicals, medicines, and pharmaceutical preparations. No. 160,920; Oct. 31.
- Masco Laboratories. (See Masco Drug Company.)
- Maselli, Frank A., Jeannette, Pa. Ointments. No. 161,712; Nov. 14.
- Mashkes, Morris, Baltimore, Md. Cough balsam, hair stain for restoring color to gray and faded hair, and blood remedy. No. 154,327; Apr. 11.
- Mason, Au & Magenheimer Confectionery Manufacturing Company, Brooklyn, N. Y. Candies. No. 151,863; Feb. 14.
- Mason, Au & Magenheimer Confectionery Manufacturing Company, Brooklyn, N. Y. Candies. No. 152,874; Mar. 7.
- Mason, Au & Magenheimer Conf. Mfg. Co., Brooklyn, N. Y. Candies and chocolates. No. 157,146; July 25.
- Mason City Oil & Grease Company, Mason City, Iowa. Crude oil used upon hogs. No. 152,875; Mar. 7.
- Mason City Oil & Grease Company, Mason City, Iowa. Lubricating oils and greases. No. 155,010; May 16.
- Mason, Davis & Company, Chicago, Ill. Weighing scales. No. 153,792; Mar. 28.
- Mason, F. E., & Sons, Batavia, N. Y. Seals completely printed and ready to be used on packages. No. 151,864; Feb. 14.
- Mason, Mayor, Glendale, Calif. Body and shoulder brace. No. 155,011; May 16.
- Mason Motor Truck Company, Flint, Mich. Motor trucks and constructive parts thereof. No. 160,575; Oct. 24.
- Mason Packing Company, Pittsburgh, Pa. Fluid-tight packing. No. 160,236; Oct. 17.
- Mason, Paul, Provo, Utah. Grease for preserving or keeping eggs. No. 162,167; Dec. 5.
- Massachusetts Cotton Mills, Boston, Mass. Cotton piece goods. No. 156,892; July 18.
- Massachusetts Oil Refining Company, Braintree, Mass. Lubricating oils. No. 151,191; Jan. 24.
- Massage Laboratory. (See Message, Wanda.)
- Massasoit Manufacturing Company, Fall River, Mass. Wiping, polishing, and cleaning cloths. No. 151,865; Feb. 14.
- Massasoit Manufacturing Company, Fall River, Mass. Mops. No. 157,147; July 25.
- Massó Hermanos, Vigo, Spain. Sardines and preserved fish. No. 154,582; Apr. 18.
- Master Chemical Co., Columbus Junction, Iowa. Embalming fluid. No. 161,227; Nov. 7.
- Master Electric Company, The, Dayton, Ohio. Electric motors and parts thereof, short circuiters, etc. No. 156,704; July 11.
- Masterman, John H., Baltimore, Md. Cigars. No. 157,541; Aug. 8.
- Masterphone Corporation of America, New York, N. Y. Phonograph needles. No. 150,895; Jan. 10.
- Mastodon Films Inc., New York, N. Y. Motion-picture and stereopticon films. Nos. 150,896-7; Jan. 10.
- Masury-Young Company, Boston, Mass. Wool oils and fulling and scouring oils. No. 158,016; Aug. 22.
- Mat Company, The, Muskegon, Mich. Coco-fiber automobile running-board mats. No. 155,339; May 23.
- Matalone, G., Chicago, Ill. Macaroni, spaghetti, alimentary paste. No. 152,876; Mar. 7.
- Matchless Metal Polish Co., The, Chicago, Ill., and Glen Ridge, N. J. Buffing and polishing compositions. No. 159,034; Sept. 19.
- Mater-Mack Co. Inc., The, Rochester, N. Y. Shoes and moccasins made of leather and of fabric for babies. No. 157,148; July 25.
- Matheny, D. C., Chattanooga, Tenn. Healing salve for hemorrhoids, cuts, etc. No. 154,328; Apr. 11.
- Mathews, E. L., Candy Company, Wilmington, N. C. Candy. No. 157,710; Aug. 15.
- Mathewson, Mrs. S. B., et al., trustees. (See Lecar Carbon Company, assignor.)
- Mathewson, Stanley B., et al., trustees. (See Lecar Carbon Company, assignor.)
- Mathieson Alkali Works, The, New York, N. Y. Soda ash, bicarbonate and caustic sodas, bleaching powder, etc. No. 155,483; May 30.
- Matson, C. H., & Co. (See Matson, Charles H.)
- Matson, Charles H., doing business as C. H. Matson & Co., Jersey City, N. J. Preparation for external application in the treatment of rheumatism, neuralgia, etc. No. 158,017; Aug. 22.

Alphabetical list of registrants of trade-marks—Continued.

- Matson Lace & Braid Company, Boston, Mass. Garment lacings. No. 153,493; Mar. 21.
- Matthews, Geo. B., & Sons, New Orleans, La. Cattle and stock foods. No. 159,432; Sept. 26.
- Matthews, H. Paul, Baltimore, Md. Butter, lard, and sausage. No. 150,469; Jan. 3.
- Matthews, Jas. H., & Co., Pittsburgh, Pa. Marking tools for marking articles of metal. No. 155,013; May 16.
- Matthews, Johnnie B., New York, N. Y. Hand paste. No. 162,825; Dec. 26.
- Mattingly & Moore Distillery Co., Louisville, Ky. Whisky. No. 162,305; Dec. 12.
- Mattutat, Ernest F., New York, N. Y. Hemoglobin medical tablets. No. 150,470; Jan. 3.
- Mattutat, Ernest F., New York, N. Y. Hemoglobin medical tablets. No. 151,541; Feb. 7.
- Maul, Alfred R., Minneapolis, Minn. Blanks and blank books. No. 150,898; Jan. 10.
- Maurer, Oscar E., San Francisco, Calif. Nonalcoholic malt beverage. No. 150,899; Jan. 10.
- Maurice, R., & Co. Ltd., doing business as Therapeutic Foods Company, Willesden, London, England. Bread. No. 162,826; Dec. 26.
- Maurice River Packing Co., Camden, N. J. Canned chowder. No. 156,009; June 13.
- Mausser Mill Company, Laurys Station, Pa. Wheat flour. No. 159,433; Sept. 26.
- Mavromatas, Michel, New York, N. Y. Cigarettes. No. 155,014; May 16.
- Maw, S., Son and Sons, Limited, London, England. Teats for feeding bottles, baby soothers, and teething rings. No. 152,228; Feb. 21.
- Mawer-Gulden-Annis, Inc., Brooklyn, N. Y. Food products. No. 160,576; Oct. 24.
- Max Grab Fashion Co., New York, N. Y. Social stationery, menus, writing paper, and envelopes, etc. No. 154,096; Apr. 4.
- Maxall Chemical Company, Dallas, Tex. Hair tonics and dressings, toilet water, and bay rum. No. 154,329; Apr. 11.
- Maxwell, S. A., & Co., Chicago, Ill. Window-shade brackets. No. 159,434; Sept. 26.
- Maxwell, T. J., & Co., Peekskill, N. Y. Pyjamas and night robes. Nos. 162,548-9; Dec. 19.
- May Bros. Co., Fremont, Nebr. Canned fruits and vegetables, rolled oats, olives, etc. No. 160,577; Oct. 24.
- May, Clarence, Chicago, Ill. Candy. No. 153,793; Mar. 28.
- May Department Stores Company, The, St. Louis, Mo. Imitation pearls. No. 158,260; Aug. 29.
- May Hosiery Mills, The, Burlington, N. C. Men's, women's, and children's hosiery. No. 158,018; Aug. 22.
- May, Lawrence C., doing business as Lawrence C. May Co., New York, N. Y. Finger rings. No. 161,559; Nov. 14.
- Maybaum Bros., Inc., New York, N. Y. Pearls. No. 153,240; Mar. 14.
- Mayer, Benjamin, New York, N. Y. Vegetable salad oil. No. 160,793; Oct. 24.
- Mayer, F., Boot & Shoe Co., Milwaukee, Wis. Leather shoes. No. 154,758; Apr. 18.
- Mayer, F. D., Manufacturing Co., Chicago, Ill. Composition erasers for artists' use. No. 151,192; Jan. 24.
- Mayer & Loewenstein, New York, N. Y. Varnish. No. 21,949; renewed Nov. 8, 1922.
- Mayerle, George, San Francisco, Calif. Binoculars, field glasses, telescopes, microscopes, etc. No. 156,346; June 20.
- Mayflower Worsted Company, Kingston, Mass. Worsted goods in the piece for men's clothing. No. 153,794; Mar. 28.
- Mayflower Worsted Company, Kingston, Mass. Worsted goods for men's suiting. No. 153,795; Mar. 28.
- Mayhew Steel Products Inc., New York, N. Y. Hack-saw blades. No. 156,010; June 13.
- Maynz, Emanuel, New York, N. Y. Paint. No. 20,398; renewed Nov. 24, 1921.
- Mayo Inc., San Francisco, Calif. Ligatures and sutures. No. 153,241; Mar. 14.
- Mays Manufacturing Co. Inc., Providence, R. I. Lead pencils. No. 155,015; May 16.
- Mazer Cigar Manufacturing Company, Detroit, Mich. Cigars. No. 162,014; Nov. 28.
- McAbee, William H., Baltimore, Md. Pile remedy. No. 155,756; June 6.
- McAdam, Charles, Company, Chicago, Ill. Soap. No. 150,457; Jan. 3.
- McAvoy Company, Chicago, Ill. Beverages sold as soft drinks and sirups used in preparation of same. No. 161,799; Nov. 21.
- McCabe, George J., doing business as McCabe Drug Co., Nekoma, N. Dak. Medicines for certain purposes. No. 159,423; Sept. 26.
- McCabe, J. J., Lathe & Machinery Corporation, New York, N. Y. Lathes for cutting, chasing, filing, polishing, etc., iron or steel or other metals. No. 162,817; Dec. 26.
- McCabe, Patrick H., Chicago, Ill. Booklet or house organ. No. 158,351; Aug. 29.
- McCafferty & Sons Manufacturing Company. (See Jacobs & McCafferty, assignors.)
- McCallum, James P., Jackson, Tenn. Medicine used for certain ailments. No. 151,536; Feb. 7.
- McCarthy Brothers, San Francisco, Calif. Baking powder. No. 156,334; June 20.
- McCarthy Bros., San Francisco, Calif. Tea. No. 162,297; Dec. 12.
- McCarthy, George L., New York, N. Y. Playing cards. No. 152,035; Feb. 14.
- McCarthy, J. D., Co., New York, N. Y. Carbon paper. No. 151,537; Feb. 7.
- McCaw, Stevenson & Orr, Limited, Belfast, Ireland. Translucent material in sheets for decorating window glass. No. 22,791; renewed Apr. 11, 1923.
- McChesney Company, The, Newark, N. J. Certain named articles of precious metal. No. 162,298; Dec. 12.
- McClave-Brooks Co., Scranton, Pa. Grates and stokers. No. 157,139; July 25.
- McClave-Brooks Co., Scranton, Pa. Steam blowers. No. 159,424; Sept. 26.
- McClintock, O. B., Company, Minneapolis, Minn. Electric burglar alarms and housings, timer cases, and relays therefor. No. 156,598; July 4.
- McCloskey Varnish Co., Philadelphia, Pa. Varnishes. No. 158,740; Sept. 12.
- McClure, Thomas H., New York, N. Y. Cigar and cigarette holders. No. 156,335; June 20.
- McCollum, Pearl G., Texarkana, Ark. Hair tonic and shampoo. No. 157,357; Aug. 1.
- McComb, James B., Scarsdale, N. Y. Liquid food-flavoring extracts. No. 161,539; Nov. 14.
- McConaghy, Anna V., Washington, D. C. Lubricating and illuminating oils and greases and gasoline. No. 158,741; Sept. 12.
- McConnell, Edward, & Co., New York, N. Y. Piece goods. No. 155,475; May 30.
- McConnell, Edward, & Co., New York, N. Y. Waterproofed textile fabrics. No. 157,140; July 25.
- McConomy, Paul L., trading as My-Ray Products Co., Philadelphia, Pa. Sunburn cream. No. 159,939; Oct. 10.
- McCorkle, D. H., Mfg. Co., Oakland, Calif. Gas-fired floor and warm-air furnaces, standard gas furnaces, gas radiators. No. 162,643; Dec. 19.
- McCormick & Co., Inc., Baltimore, Md. Maltless fountain drinks and sirups and extracts therefor. No. 155,001; May 16.
- McCrackin, Ellis Y., El Paso, Tex. General tonic. No. 153,235; Mar. 14.
- McCrary, John N., High Point, N. C. Cigars. No. 152,452; Feb. 28.
- McCrary, John N., High Point, N. C. Cigars made of various tobaccos. No. 158,510; Sept. 5.
- McCreery, James & Company, New York, N. Y. Certain articles of clothing. No. 154,617; Apr. 18.
- McCreery, James, & Company, New York, N. Y. Certain household furniture. No. 156,136; June 13.
- McCreery, James, & Company, New York, N. Y. Shoes of leather, rubber, and fabric for women and children. No. 156,336; June 20.
- McCreery, James, & Company, New York, N. Y. Silk and satin piece goods. No. 156,808; July 11.
- McCreery, James, & Company, New York, N. Y. Clocks. No. 158,486; Sept. 5.
- McCreery, James, & Company, New York, N. Y. Floor brushes and brooms, whisk brooms, toothbrushes, hair-brushes, etc. No. 159,025; Sept. 19.
- McCreery, James, & Company, New York, N. Y. Nail files and buffers, manicuring scissors, cuticle knives. No. 159,026; Sept. 19.
- McCreery, James, & Company, New York, N. Y. Certain notions. No. 159,027; Sept. 19.
- McCreery, James, & Company, New York, N. Y. Boys' coats and suits. No. 160,789; Oct. 24.
- McCreery, James, & Company, New York, N. Y. Picture frames and hand mirrors. No. 162,537; Dec. 19.
- McCreery, James, & Company, New York, N. Y. Powder, jewel, pin, and soap boxes, hair receivers, salve jars, etc. No. 162,818; Dec. 26.
- McCrosky Bros., Oakland, Calif. Doll heads. No. 158,006; Aug. 22.
- McDaniel Drug Company, Louisville, Ky. Nonalcoholic, noncereal maltless sirups and flavorings for soft drinks and beverages made therefrom. No. 151,866; Feb. 14.
- McDonald Bros. Co., Minneapolis, Minn. Textile fabrics. No. 150,888; Jan. 10.
- McDonald Bros. Co., Minneapolis, Minn. Certain articles of clothing. No. 153,485; Mar. 21.
- McDonald, E. F., Jr., Chicago, Ill. Yeast. No. 150,458; Jan. 3.
- McDonnell, Edw., & Co. (See McDonnell, Edward.)
- McDonnell, Edward, doing business as Edw. McDonnell & Co., Smiths Ferry, Pa. Internal medicine for the relief of asthma, croup, etc. No. 158,487; Sept. 5.
- McDougall-Butler Co., Inc., Buffalo, N. Y. Certain paints, colors, stains, etc. No. 159,028; Sept. 19.
- McDougall-Butler Co., Inc., Buffalo, N. Y. Varnish. No. 161,960; Nov. 28.
- McDougall Company, Frankfort, Ind. Kitchen cabinets. No. 151,867; Feb. 14.
- McDougall & Yalding Ltd., Yalding, England. Certain chemical preparations. Nos. 152,219-20; Feb. 21.
- McDougall & Yalding, Ltd., Yalding, Kent, England. Fungicides, insecticides, etc. Nos. 154,317-18; Apr. 11.
- McDowell, Bert, Co., The, Sacramento, Calif. Canned fruits, vegetables, and fish, spices, etc. No. 160,910; Oct. 31.

- McElroy, Harry J., Los Angeles, Calif. Powder for cleaning drain pipes. No. 153,236; Mar. 14.
- McElwain, W. H., Company, Boston, Mass. Leather boots, shoes, and slippers. No. 154,613; Apr. 18.
- McEvoy, Joseph P., Chicago, Ill. Series of separate illustrated stories or playlets in verse and prose. No. 159,029; Sept. 19.
- McFadden, M. J., Co., Wheeling, W. Va. Men's leather shoes. No. 162,166; Dec. 5.
- McFaddin, H. G., & Co., New York, N. Y. Certain portable electric-lighting fixtures. No. 151,538; Feb. 7.
- McFerson & Foster Co., Evansville, Ind. Assembled wooden boxes. No. 153,486; Mar. 21.
- McGill & Holford Manufacturing Co. Inc., Binghamton, N. Y. Silk-throwing machinery and parts thereof. No. 156,337; June 20.
- McGill, Samuel D., et al., trustees. (See Lowman, Eugene M., assignor.)
- McGowan, John S., Orange, N. J. Mayonnaise and Russian dressings, olive mayonnaise. No. 151,868; Feb. 14.
- McGraw Manufacturing Company, McGraw, N. Y. Shoe and corset laces and washable lingerie braid. No. 162,538; Dec. 19.
- McGuire, Luke P., Baltimore, Md. Insect exterminator. No. 150,459; Jan. 3.
- McInnes-Walker Company, Milwaukee, Wis. Coffee and tea. No. 156,338; June 20.
- McInnes-Walker Co., Milwaukee, Wis. Coffee. No. 160,568; Oct. 24.
- McIntyre Bros., Cranford, N. J. Boats. No. 157,141; July 25.
- McKay, Chester, Brooklyn, N. Y. Blowing game. No. 155,476; May 30.
- McKee Glass Company, Jeannette, Pa. Glass baking vessels. No. 159,940; Oct. 10.
- McKee Glass Company, Jeannette, Pa. Glass baking vessels. No. 159,942; Oct. 10.
- McKee Refrigerator Company, Brooklyn, N. Y. Refrigerators. No. 153,785; Mar. 28.
- McKenna Brass and Manufacturing Co. Inc., Pittsburgh Pa. Bottle and fruit treating and carbonating machines. No. 150,889; Jan. 10.
- McKenzie, Willard J., doing business as Pierce Remedy Company, St. Louis, Mo. Waterproof cement. No. 161,961; Nov. 28.
- McKeon, J. H., Ph. G., Better Health Products. (See McKeon, John H.)
- McKeon, John H., trading as J. H. McKeon, Ph. G., Better Health Products, Holyoke, Mass. Laxative. No. 158,255; Aug. 29.
- McKesson, Elmer L., Toledo, Ohio. Respiration-testing and gas-administration apparatus. No. 153,237; Mar. 14.
- McKinney, Ralph A., Pittsburgh, Pa. Wireless receiving outfits in one complete unit inclosed in a cabinet. No. 161,540; Nov. 14.
- McKnight, John P., Dublin, Ireland. Woolen piece goods. No. 153,487; Mar. 21.
- McKone Tire & Rubber Company, The, Millersburg, Ohio. Rubber tires for automobiles. No. 159,941; Oct. 10.
- McLaughlin, J. J., Limited, Toronto, Ontario, Canada. Ginger ale. No. 155,002; May 16.
- McLaughlin, J. J., Limited, Toronto, Canada. Nonalcoholic, maltless beverages sold as soft drinks, sirups and extracts therefor. No. 157,425; Aug. 1.
- McLaughlin, Thomas H., Los Angeles, Calif. Fresh vegetables. No. 162,299; Dec. 12.
- McLean Reports, Inc., Boston, Mass. Bulletins for insurance purposes regarding condition of buildings. No. 155,249; May 23.
- McLellan, Royal H., Norwalk, Conn. Dental cream. No. 152,613; Feb. 28.
- McLeod & Niesz, Buffalo, N. Y. Medicinal ointment. No. 160,911; Oct. 31.
- McLoughlin Bros., Inc., Springfield, Mass. Books in a continuing series. No. 159,425; Sept. 26.
- McMichael, Americus O., Denver, Colo. Certain medicinal preparations. No. 157,302; Aug. 1.
- McMillan, Levi, Wilmington, N. C. Leather shoes. No. 154,619; Apr. 18.
- McMillan, Whiteford E., Chicago, Ill. Deodorizers. No. 150,460; Jan. 3.
- McMullen-Leavens Co. Inc., New York, N. Y. Men's outer shirts. No. 158,742; Sept. 12.
- McQuade, John, Brooklyn, N. Y. Ready-mixed paints. No. 158,743; Sept. 12.
- McRoskey & Co., San Francisco, Calif. Mattresses. No. 153,488; Mar. 21.
- McVaugh, Wm. T., Company, Inc., New York, N. Y. Men's, ladies', children's, and infants' hosiery. No. 157,142; July 25.
- McVitie & Price, Limited, London, England, and Edinburgh, Scotland. Biscuits, cakes, oatcakes, rusks, and shortbread. No. 160,790; Oct. 24.
- McVoy, John M., Springfield, Ala. Razor-strop dressing. No. 157,143; July 25.
- Mead, Charles A., doing business as Nu-Ma Manufacturing Company, Chicago, Ill. Salve for certain purposes. No. 160,921; Oct. 31.
- Mead Electric Signal Company, The, Cleveland, Ohio. Certain named electrical apparatus. No. 162,306; Dec. 12.
- Mead Johnson & Co., Evansville, Ind. Diet materials for infants and invalids. No. 154,589; Apr. 18.
- Mead Johnson & Company, Evansville, Ind. Carbohydrate food for infants and invalids. No. 162,090; Dec. 5.
- Mead, M. A., Company, Chicago, Ill. Watches, watch movements, and watchcases. No. 151,542; Feb. 7.
- Meadows Mig. Co., The, Bloomington, Ill. Washing machines for laundry purposes. No. 162,304; Dec. 12.
- Measuregraph Company, The, St. Louis, Mo. Signals and trip mechanism for arresting operations of a machine. No. 152,458; Feb. 28.
- Meccano Limited, Liverpool, England. Electrical toys. No. 157,149; July 25.
- Mechanical Appliance Company, The, Milwaukee, Wis. Electric motors, dynamos, generators, &c. No. 150,689; Jan. 3.
- Mechanical Appliance Company, Milwaukee, Wis. Electric motors, dynamos, and generators, rotary converters, etc. No. 162,307; Dec. 12.
- Mechanical Fabric Company, Providence, R. I. Card cloth. No. 20,538; renewed Jan. 5, 1922.
- Medcraft, Charles H., San Francisco, Calif. Series of cartoons. No. 157,712; Aug. 15.
- Medicinal Products Corporation, Holyoke, Mass. Indigestion powder and shampoo preparation. No. 152,877; Mar. 7.
- Medicinal Springs Corporation, Wilmington, Del., and Meadville, Pa. Natural mineral water. No. 153,242; Mar. 14.
- Medico Distributing Co. Inc., New York, N. Y. General medicinal tonic. No. 157,273; July 25.
- Medicraft Company, The, Cleveland, Ohio. Soap. No. 157,711; Aug. 15.
- Medina County Creamery Company, Cleveland, Ohio. Butter. No. 153,601; Mar. 21.
- Meekins, Lawrence R. (See Anthony Nutype Company, assignor.)
- Meer, Joseph, Inc., New York, N. Y. Dolls. No. 160,579; Oct. 24.
- Meeth, Arie A., Portland, Mich. Laundry soap. No. 150,900; Jan. 10.
- Meier & Frank Co., Portland, Oreg. Fish hooks and flies. No. 159,950; Oct. 10.
- Meinecke & Company, New York, N. Y. Bedpan brushes. No. 153,380; Mar. 14.
- Meinecke & Co., New York, N. Y. Bedpans, syringes, and sputum flasks. No. 154,203; Apr. 4.
- Meinecke & Company, New York, N. Y. Certain named medical and surgical appliances. No. 154,834; May 9.
- Meirowsky Brothers, Jersey City, N. J. Electrical condensers. No. 160,922; Oct. 31.
- Meisezahl, Chas. W., New York, N. Y. Nonalcoholic, non-cereal, maltless beverages. No. 155,254; May 23.
- Meisselbach, A. F., Manufacturing Company, New York, N. Y. Fishing reels. Nos. 153,602-3; Mar. 21.
- Meisselbach, A. F., Manufacturing Company, New York, N. Y. Fishing reels. No. 153,605; Mar. 21.
- Meissner Piano Co., Milwaukee, Wis. Pianos. No. 162,315; Dec. 12.
- Melachrinio, M., Co., Inc., New York, N. Y. Cigars, cigarettes, smoking and chewing tobacco. No. 153,243; Mar. 14.
- Melchior, George F., Chicago, Ill. Hair tonic, dandruff remedy. No. 151,543; Feb. 7.
- Melchior Supply Co., Chicago, Ill. Hair tonics and dressings. No. 150,471; Jan. 3.
- Mell, Abraham, New York, N. Y. Hair tonic. No. 161,228; Nov. 7.
- Mel-O-Dee Music Company Inc., New York, N. Y. Music rolls for player pianos, etc., and records for phonographs and the like. No. 155,255; May 23.
- Melodia Phonograph Co., Chicago, Ill. Phonographs. No. 158,261; Aug. 29.
- Melson, Clifford & Co. Limited, London, England. Artificial-silk fabrics in the piece. No. 161,560; Nov. 14.
- Melynn Tin Plate Company Limited, The, Neath, Wales. Tin plates. Nos. 161,964-6; Nov. 28.
- Mem-O-ette Co. (See Fardon, William S.)
- Memphis Cotton Hull & Fibre Co., Ltd. The, Memphis, Tenn. Mixed feeds. No. 159,435; Sept. 26.
- Memphis Packing Corporation, Memphis, Tenn. Smoked meats and lard. No. 157,713; Aug. 15.
- Memphis Packing Corporation, Memphis, Tenn. Smoked meats and lard. No. 158,353; Aug. 29.
- Mendel-Drucker Company, The, Norwood, Ohio. Trunks. No. 162,308; Dec. 12.
- Mendell, J., Candy Co. (See Mendell, Jacob.)
- Mendell, Jacob, doing business as J. Mendell Candy Co., Brooklyn, N. Y. Candy. No. 162,827; Dec. 26.
- Menke, Wilber, Terre Haute, Ind. Coffee. No. 154,627; Apr. 18.
- Menley & James, Limited, New York, New York, N. Y. Certain pharmaceutical preparations. No. 152,229; Feb. 21.
- Menley & James Limited, New York, N. Y. Beef extract. No. 162,828; Dec. 26.
- Menter Co., Inc., The, New York, N. Y. Blank home-budget books. No. 158,019; Aug. 22.
- Menter Co. Inc., The, New York, N. Y. Coats, vests, trousers, and overcoats. No. 160,237; Oct. 17.
- Menthof Products Company, East Orange, N. J. Ointment for certain purposes. No. 159,035; Sept. 19.
- Mentz, Howard H., D. D. S., Gustine, Calif. Mouth washes, tooth powder and paste. No. 158,354; Aug. 29.

Alphabetical list of registrants of trade-marks—Continued.

- Mercantile Oversea Corporation, Portland, Me. Ferrous and nonferrous metal sheets, solder, Babbitt metal. No. 153,796; Mar. 28.
- Merced Growers Packing Ass'n, Merced, Calif. Fresh fruits and vegetables. No. 150,472; Jan. 3.
- Merchant, Willis J., Oroville, Calif. Cleaner and polisher for cleaning and polishing pianos and furniture. No. 150,901; Jan. 10.
- Merchant & Evans Company, Philadelphia, Pa. Fire doors and shutters. No. 155,340; May 23.
- Merchant & Evans Company, Philadelphia, Pa. Flexible disks for universal couplings. No. 157,426; Aug. 1.
- Merchants Trade Journal, Inc., Des Moines, Iowa. Section of a trade journal. No. 153,494; Mar. 21.
- Merck, E., Darmstadt, Germany. Dihydroxycodeinonchlorhydrate. No. 161,802; Nov. 21.
- Merck, E., Darmstadt, Germany. Colloidal silver preparation combined with sodium cholate as protective colloid. No. 161,803; Nov. 21.
- Merck, E., Darmstadt, Germany. Methylene-blue silver compound. No. 161,804; Nov. 21.
- Merck, E., Darmstadt, Germany. Acetylsalicyloylthetobromine. No. 161,805; Nov. 21.
- Merck, E., Darmstadt, Germany. Preparation of barium sulphate used in X-ray diagnosis. No. 161,806; Nov. 21.
- Merck, E., Darmstadt, Germany. Suspension of animal charcoal of the highest adsorptive power ready for injections. No. 161,807; Nov. 21.
- Merck & Co. Medicinal dye. No. 151,544; Feb. 7.
- Merck & Co., New York, N. Y. Hexamethylenamin in powder and tablet. No. 152,230; Feb. 21.
- Merck & Co., New York, N. Y. Extract of yeast for medicinal purposes. No. 153,797; Mar. 28.
- Merck & Co., New York, N. Y. Tablets for preparing hydrogen-peroxide solutions. No. 154,097; Apr. 4.
- Merckens Inc., New Brunswick, N. J. Chocolates, chocolate bars, chocolate nut bars. No. 156,893; July 18.
- Meredith-Jones, J., & Sons, Wrexham, North Wales, assignor to J. Meredith-Jones & Sons, Ltd. Leather of all kinds, skins wrought and unwrought, and articles made of leather. No. 21,070; renewed May 3, 1922.
- Merford Company. (See Eggers, Edward L.)
- Mergott, J. E., Company, The, Newark, N. J. Bag, purse, and pocketbook frames. No. 150,473; Jan. 3.
- Meriden Creamery Company, The, Kansas City, Mo. Creamery butter. No. 150,474; Jan. 3.
- Merit Underwear Company, Shoemakersville, Pa. Women's knitted underwear. No. 156,538; June 27.
- Merkle-Korff Gear Co., Chicago, Ill. Gears. No. 156,705; July 11.
- Merlino, Angelo, Seattle, Wash. Olive oil. No. 153,381; Mar. 14.
- Merlino, Angelo, Seattle, Wash. Olive oil. No. 153,936; Mar. 28.
- Merlino, Angelo, Seattle, Wash. Olive oil. No. 156,530; June 27.
- Merrell-Soule Company, Syracuse, N. Y. Powdered milk. No. 157,714; Aug. 15.
- Merrell, William S., Company, The, Cincinnati, Ohio. Red antiseptic solution. No. 161,229; Nov. 7.
- Merriam, G. & C., Company, Springfield, Mass. Books, more particularly dictionaries. Nos. 157,818-23; Aug. 15.
- Merriam, H. W., Shoe Company, The, Newton, N. J. Shoes. No. 161,561; Nov. 14.
- Merrill, George E., Company, Salt Lake City, Utah. Lumber-trade periodical. No. 155,256; May 23.
- Merrimac Battery Plate Co. Inc., Louisville, Ky. Storage batteries. No. 162,312; Dec. 12.
- Merrimac Drug Company Inc., New York, N. Y. Antiseptics. No. 154,330; Apr. 11.
- Merrimac Drug Company, Inc., New York, N. Y. Iodine therapy for infection. No. 155,484; May 30.
- Merritt, Edwin B., Toledo, Ohio. Gloves, overalls, work shirts, etc. No. 154,628; Apr. 18.
- Merritt, S. W., & Co., New York, N. Y. Unitary electric-lighting plants. No. 151,545; Feb. 7.
- Merritt's Sons, Newburgh, N. Y. Liquid skin tonics. No. 156,347; June 20.
- Merrow Machine Company, The, Hartford, Conn. Sewing machines, oversewing and crochet sewing machines. No. 151,396; Jan. 31.
- Merrow Machine Company, The, Hartford, Conn. Loopers for oversewing and overedging sewing machines. No. 160,238; Oct. 17.
- Merrow Machine Company, The, Hartford, Conn. Loopers for oversaming and overedging sewing machines. Nos. 161,808-15; Nov. 21.
- Merry Optical Company, Kansas City, Mo. Optical trial sets and lenses, spectacle and eyeglass frames and mountings. No. 154,331; Apr. 11.
- Mersereau Metal Bed Company, Jersey City, N. J. Metal bedsteads and cribs. No. 151,869; Feb. 14.
- Message, Wanda, doing business as Massage Laboratory, Chicago, Ill. Medicinal bath compound for skin diseases and rheumatic pains. No. 161,230; Nov. 7.
- Messineo, Emanuele J., New York, N. Y. Liniment for rheumatism, neuralgia, gout, and analogous inflammatory ailments. No. 161,231; Nov. 7.
- Messing, Edward G., doing business as Sho-Form Company, Buffalo, N. Y. Animal soft soap. No. 162,313; Dec. 12.
- Messing, Philip, Long Island City, N. Y. Chocolate-covered cherries. No. 154,629; Apr. 18.
- Messinger, Chas. H., Co., The, Toledo, Ohio. Candy. No. 154,630; Apr. 18.
- Metadier, Paul, Tours, France. Medicinal preparation. No. 157,360; Aug. 1.
- Metadier, Paul, Tours, France. Analgesic tablets for headache, neuralgia, rheumatism, grippe, etc. No. 161,816; Nov. 21.
- Metal & Alloy Specialties Company Inc., Buffalo, N. Y. Golf-club heads. No. 155,016; May 16.
- Metal and Alloy Specialties Company Inc., Buffalo, N. Y., assignor, by mesne assignments, to Heirloom Aluminum Corporation, Buffalo, N. Y. Kitchen cooking utensils, made of aluminum. No. 157,542; Aug. 8.
- Metal and Alloy Specialties Company, Inc., Buffalo, N. Y. Nonrusting and corrosion-resisting alloy and castings made therefrom. No. 159,436; Sept. 26.
- Metal Hose & Tubing Co. Inc., Brooklyn, N. Y. Fabric-covered rubber hose with metal lining. No. 154,835; May 9.
- Metal Hose & Tubing Co. Inc., Brooklyn, N. Y. Fabric-covered rubber hose with metal lining. No. 159,951; Oct. 10.
- Metal Office Furniture Co., Grand Rapids, Mich. Safes. No. 152,614; Feb. 28.
- Metal Specialties Manufacturing Company, Chicago, Ill. Gummed-tape moistening and cutting machines. No. 155,257; May 23.
- Metal Specialties Manufacturing Company, Chicago, Ill. Gummed tape moistening and cutting machines. No. 155,261; May 23.
- Metal Spinning & Plating Co., The, assignor to Lyon Manufacturing Company Inc., Baltimore, Md. Electric parking lamps for automobiles. No. 151,546; Feb. 7.
- Metallic Industries Inc., St. Louis, Mo. Toy swings, teeters, gocarts, wagons, and velocipedes. No. 153,244; Mar. 14.
- Metallic Industries, Inc., St. Louis, Mo. Wheeled toy in the nature of a velocipede. Nos. 154,098-9; Apr. 4.
- Metallograph Corporation, The, New York, N. Y. Mixing apparatuses for soda fountains. No. 155,017; May 16.
- Metallurgische Gesellschaft Richard Walter & Co., Dusseldorf, Germany. Castings made from acid resisting alloys. No. 159,952; Oct. 10.
- Metcalf, Louie T., Greenville, Ala. Union working garments. No. 154,631; Apr. 18.
- Metcalf, C. G., Georgiana, Ala. Medicine for the treatment of headache and neuralgia, for pains in la grippe, etc. No. 158,020; Aug. 22.
- Methodist Child Welfare Society, New York, N. Y. Books, pamphlets, and like printed publications. No. 162,314; Dec. 12.
- Metro Chocolate Co. Inc., The, Brooklyn, N. Y. Chocolate caramels. No. 162,444; Dec. 12.
- Metro Pictures Corporation, New York, N. Y. Motion-picture films. No. 153,795; Mar. 28.
- Metropolitan Church Association, Chicago, Ill. Weekly publications. No. 153,495; Mar. 21.
- Metropolitan Hair Goods Co. Inc., New York, N. Y. Human-hair nets. No. 155,485; May 30.
- Metropolitan-Vickers Electrical Co. Ltd., London, England. Certain machinery and condensers. No. 152,459; Feb. 28.
- Metropolitan-Vickers Electrical Company Ltd., London, England. Certain electrical apparatus. No. 156,706; July 11.
- Mettler, E. C., Co., Menno, S. Dak. Vapor-mixing devices for internal-combustion engines. No. 156,707; July 11.
- Metz, H. A., Laboratories, Inc., New York, N. Y. Anesthetics and preparations for alleviating irritation and pain. Nos. 152,231-2; Feb. 21.
- Metz, H. A., Laboratories, Inc., New York, N. Y. Remedy against syphilis, sleeping sickness, trypanosomiasis, etc. No. 161,232; Nov. 7.
- Metz, Herman A., New York, N. Y. Artificially-compounded food supplement for children and invalids. No. 157,715; Aug. 15.
- Metz, Herman A., New York, N. Y. Dyes and dyestuffs. No. 160,923; Oct. 31.
- Metzler, Henry, New York, N. Y. Ladies' blouses. No. 158,021; Aug. 22.
- Meyer, A. C., & Co. (See Trust Estate of Adolph C. Meyer.)
- Meyer, Adolph, Chicago, Ill. Ladies' and children's dresses and cloaks. No. 159,203; Sept. 19.
- Meyer, Arthur E., Chicago, Ill. Rivet-upsetting machines. No. 153,245; Mar. 14.
- Meyer, Bernard M., Louisville, Ky. Stogies. No. 152,460; Feb. 28.
- Meyer Cloak & Dress Co. Inc., Baltimore, Md. Ladies' dresses. No. 157,150; July 25.
- Meyer, Cyrus R., Baltimore, Md. Soap. No. 155,018; May 16.
- Meyer, Harold J., St. Joseph, Mo. Salted peanuts, almonds, pecans, and filberts. No. 156,011; June 13.
- Meyer, John W., Brooklyn, N. Y. Candies. No. 160,757; Oct. 24.
- Meyer-Mueller-Goodman Co., St. Louis, Mo. Men's and boys' cravats. No. 154,632; Apr. 18.
- Meyer, Trust Estate of Adolph C., deceased, Baltimore, Md. Certain medicinal and pharmaceutical preparations. Nos. 151,609-13; Feb. 7.

- Meyer, Trust Estate of Adolph C., deceased, Baltimore, Md. Liniment for external application. No. 151,614; Feb. 7.
- Meyer, Trust Estate of Adolph C., deceased, Baltimore, Md. Medicinal preparations in liquid form. No. 151,982; Feb. 24.
- Meyer, Wm., Co., Chicago, Ill. X-ray tables and stands. No. 152,878; Mar. 7.
- Meyer, William H., Brooklyn, N. Y. Fishing-rod mountings. No. 156,348; June 20.
- Meyer & Stein, New York, N. Y. Men's dress, negligee, and work shirts. No. 156,138; June 13.
- Meyer & Strompen, San Francisco, Calif. Hair nets. No. 159,036; Sept. 19.
- Meyer & Stüdeli, Societe Anonyme, Soleure, Switzerland. Watches, clocks, and parts thereof. No. 151,547; Feb. 7.
- Meyer & Stüdeli, Société Anonyme, Soleure, Switzerland. Watches, clocks, and parts thereof. No. 158,262; Aug. 29.
- Meyers, J., Stationery & Printing Co., Inc., New York, N. Y. Legal and letter paper, writing pads, notebooks, etc. No. 157,361; Aug. 1.
- Meyers, J., Stationery & Printing Co., Inc., New York, N. Y. Legal and letter paper, writing pads, notebooks, pencils, etc. No. 159,437; Sept. 26.
- Meyers & Kaner, New York, N. Y. Insecticides. No. 155,763; June 6.
- Meyers, Milton, Newark, N. J. Disinfectants and deodorants. No. 155,762; June 6.
- Meyrowitz, E. B., Inc., New York, N. Y. Eyeglasses. No. 159,438; Sept. 26.
- Miami Manufacturing Co., Peru, Ind. Receptacles—viz, shipping cases, boxes, delivery baskets, etc. No. 162,970; Dec. 26.
- Mica Insulator Company. (See Munsell, E., Kingsley, and Brooks, assignors.)
- Mi Candy Company, New York, N. Y. Sugar-toasted peanuts. No. 160,580; Oct. 24.
- Michaels, John, Montreal, Quebec, Canada. Desks, studio tables, stands, and easels. No. 157,716; Aug. 15.
- Michaels Stern & Co., Rochester, N. Y. Men's and boys' suits and overcoats. Nos. 158,022-3; Aug. 22.
- Michand, W. H., Beaverton, Mich. Certain veterinary preparations. No. 151,548; Feb. 7.
- Michigan Grape Products Co. (See Smith, J. Hungerford, Grape Juice Co.)
- Michigan Specialty Co., Lansing Mich. Soap. No. 151,870; Feb. 14.
- Miczulene, Mere, Bridgeport, Conn. General medicine tonic. No. 150,902; Jan. 10.
- Middleby, Jos., Jr., Inc., Boston, Mass. Marshmallow topping. No. 153,246; Mar. 14.
- Middleby, Jos., Jr., Inc., Boston, Mass. Nonalcoholic maltless beverages and sirups therefor. No. 157,543; Aug. 8.
- Middlesex Aniline Company, Inc., Lincoln, N. J. Silver, zinc, and copper cyanides. No. 157,362; Aug. 1.
- Middleton, Ambrose, Mansfield, Ohio. Croup ointment. No. 157,363; Aug. 1.
- Middletown Silver Company, The, Middletown, Conn. Silver-plated hollow ware and tableware. No. 150,904; Jan. 10.
- Middletown Silver Company, The, Middletown, Conn. Silver-plated hollow ware and silver-plated tableware. No. 155,341; May 23.
- Middleworth, James O., doing business as Carnahan Manufacturing Company, San Diego, Calif. Oil gauges. No. 161,818; Nov. 21.
- Mid-East Specialty Co., Binghamton, N. Y. Paper bags. No. 162,445; Dec. 12.
- Midland Cereal Products Co., Denver, Colo. Breakfast cereals. No. 159,630; Sept. 26.
- Midland Chemical Laboratories, Inc., Dubuque, Iowa. Certain soaps and other cleaners. No. 162,550; Dec. 19.
- Mid-States Gummed Paper Co., Chicago, Ill. Gummed labels, paper, and tape. No. 162,551; Dec. 19.
- Midulla, B., New York, N. Y. Cigars. No. 153,247; Mar. 14.
- Mid-West Box Company, Anderson, Ind., and Chicago, Ill. Garment-storage receptacles and wrappers for bottles and lamp chimneys. No. 159,204; Sept. 19.
- Mid West Glass Company, The, Cincinnati, Ohio. Fluid gauges. No. 159,439; Sept. 26.
- Mid-West Lamp Co. (See Kulp, Lester.)
- Mid-West Manufacturing Company, Inc., Minneapolis, Minn. Burnishing compound. No. 162,552; Dec. 19.
- Midwest Steel & Supply Co. Inc., New York, N. Y. Bolts, anchor-rod bolts, and clamps used with anchor rails, stringers and metal sections. No. 152,879; Mar. 7.
- Midwest Steel & Supply Company, Inc., New York, N. Y. Filters and parts thereof. No. 153,799; Mar. 28.
- Midwest Steel & Supply Company Inc., New York, N. Y. Cleaning apparatus for filter parts. No. 155,019; May 16.
- Midwest Steel & Supply Company, Inc., New York, N. Y. Viscose. No. 155,486; May 30.
- Midwest Steel & Supply Company, Inc., New York, N. Y. Viscose. No. 155,487; May 30.
- Midwest Steel & Supply Company, Inc., New York, N. Y. Certain construction material. No. 155,764; June 6.
- Midwest Steel & Supply Company, Inc., New York, N. Y. Metal laths. No. 156,012; June 13.
- Midwest Steel & Supply Company, Inc., New York, N. Y. Laths. No. 156,013; June 13.
- Midwest Steel & Supply Company, Inc., New York, N. Y. Timber-joint plates. No. 162,553; Dec. 19.
- Miehle Printing Press & Manufacturing Company, Chicago, Ill. Printing presses. No. 158,263; Aug. 29.
- Mi Favorita Cigar Company, Inc., New York, N. Y. Cigars. No. 152,461; Feb. 28.
- Mi Favorita Cigar Company, Inc., New York, N. Y. Cigars, cigarettes, smoking and chewing tobacco. No. 158,495; Sept. 5.
- Mifflin Chemical Corporation, Philadelphia, Pa. Preparation used to prevent the freezing of radiators. No. 157,364; Aug. 1.
- Mifflin Chemical Corporation, Philadelphia, Pa. Antiseptic preparation. No. 157,824; Aug. 15.
- Migel, J. A., Inc., New York, N. Y. Broad silks. Nos. 152,880-2; Mar. 7.
- Migel, J. A., Inc., New York, N. Y. Broad silks in the piece. No. 154,332; Apr. 11.
- Migel, J. A., Inc., New York, N. Y. Silk and satin piece goods, shirtings, sheetings, etc. No. 155,488; May 30.
- Migel, J. A., Inc., New York, N. Y. Women's silk dresses, skirts, waists, &c. No. 155,770; June 6.
- Migel, J. A., Inc., New York, N. Y. Certain articles of clothing. Nos. 158,024-6; Aug. 22.
- Migel, J. A., Inc., New York, N. Y. Certain articles of clothing. No. 159,037; Sept. 19.
- Migel, J. A., Inc., New York, N. Y. Silk, cotton, and woolen piece goods and combinations thereof. No. 159,721; Oct. 3.
- Migel, J. A., Inc., New York, N. Y. Certain articles of clothing. Nos. 160,239-40; Oct. 17.
- Migel, J. A., Inc., New York, N. Y. Silk goods in the piece. No. 161,562; Nov. 14.
- Migel, J. A., Inc., New York, N. Y. Silk goods in the piece. No. 161,819; Nov. 21.
- Migel, J. A., Inc., New York, N. Y. Silk goods in the piece. No. 162,829; Dec. 26.
- Mightybone Corporation of New York, The, New York, N. Y., and Detroit, Mich. Boning steels, and stays for certain clothing. No. 151,298; Jan. 24.
- Mightybone Corporation of New York, New York, N. Y. Boning, steels, and staying materials. Nos. 151,871-2; Feb. 14.
- Mignon, George E., Inc., New York, N. Y. Perfume atomizers. No. 162,441; Dec. 12.
- Mijets Perfume Company, Inc., New York, N. Y. Perfumes. No. 157,365; Aug. 1.
- Miles, Dr., Grand Dispensary, Elkhart, Ind. Laxative medicine. No. 161,233; Nov. 7.
- Milgrin, H., & Bros. Inc., New York, N. Y. Gowns, frocks, tailored suits, and furs for women. No. 159,025; Sept. 19.
- Milhoan, Melvin O., Olathe, Kans. Preparations for the treatment of piles, rickets, or St. Vitus's dance, etc. No. 155,489; May 30.
- Milich, Charles, New York, N. Y. Negligee and work shirts and pyjamas. No. 160,241; Oct. 17.
- Mill and Mine Supply Co., Seattle, Wash. Blacksmith coal. No. 151,193; Jan. 24.
- Millar, E. B., & Company, Chicago, Ill. Coffee. No. 153,800; Mar. 28.
- Millar, Geo. V., Co., Scranton, Pa. China, earthenware, pottery, stoneware, porcelain ware, etc. No. 159,722; Oct. 3.
- Millar, Geo. W., & Co., Inc., New York, N. Y. Correspondence papers and envelopes packed in boxes and known as papeteries. No. 162,098; Dec. 5.
- Millbrook Woolen Mills, New York, N. Y. Woolen and cotton piece goods. No. 150,905; Jan. 10.
- Millbury Steel Foundry Company, Millbury, Mass. Iron and steel castings. No. 161,820; Nov. 21.
- Milleman, William H., doing business as American Soap Company, Oakland, Calif. Automobile and furniture polish. No. 162,316; Dec. 12.
- Millen Candy Co., Inc., Utica, N. Y. Coconut candy. No. 156,708; July 11.
- Miller Bros. & Company, Philadelphia, Pa. Bed clothing—namely, comfortable, quilts, blankets, and bedspreads. No. 155,258; May 23.
- Miller, Charles E., Los Angeles, Calif. Monthly magazine. No. 151,873; Feb. 14.
- Miller, Charles N., Company., Boston, Mass. Candies. No. 152,883; Mar. 7.
- Miller, Dwight H., doing business as The Mumsleep Company, Sacramento, Calif. Antisnoring device. No. 161,455; Nov. 14.
- Miller, Edwin H., New York, N. Y. Clothespins. No. 161,563; Nov. 14.
- Miller-Fatland Novelty Co., Chicago, Ill. Combination inhalers for certain ailments. No. 160,924; Oct. 31.
- Miller Filler Co., Inc., Brockton, Mass. Plastic composition. No. 156,349; June 20.
- Miller, Fred, Brewing Company, Milwaukee, Wis. Malt sirup. No. 151,345; Jan. 31.
- Miller, H. H., Industries Company, The. (See Miller Pasteurizing Machine Company.)
- Miller, Isadore A., doing business as Prudent Chemical Co., Los Angeles, Calif. Antiseptic mouth wash, hair tonic, and face powder. No. 161,234; Nov. 7.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Pongee. No. 152,884; Mar. 7.

Alphabetical list of registrants of trade-marks—Continued.

- Miller, Jacob, Sons, & Co., Philadelphia, Pa. Cotton, silks, and linen piece goods and mixtures. No. 156,350; June 20.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Cotton, silk, and linen goods and mixtures of cotton and silk and linen and silk in the piece. No. 156,585; July 4.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Cotton, silk, linen goods and mixtures in the piece. No. 157,153; July 25.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Cotton, silk, and linen goods and mixtures of same, all in the piece. Nos. 159,723-5; Oct. 3.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Men's outer shirts. No. 161,174; Nov. 7.
- Miller, John, Mobile, Ala. Antiseptic and eczema preparation. No. 151,549; Feb. 7.
- Miller, Joseph B., Indianapolis, Ind. Fire-extinguishing composition. No. 159,038; Sept. 19.
- Miller, Joseph E., Inc., Providence, R. I. Certain jewelry. No. 158,264; Aug. 29.
- Miller & Kent, Bradford, Pa. Puzzle. No. 160,242; Oct. 17.
- Miller Laboratories, Inc., Washington, D. C. Shaving-soap cream. No. 157,825; Aug. 15.
- Miller Lock Company, Philadelphia, Pa. Frying pans and broom holders. No. 159,440; Sept. 26.
- Miller, Louis, Brooklyn, N. Y. Men's dress shirts. No. 155,162; May 16.
- Miller, Max, New York, N. Y. Certain toilet preparations. No. 150,475; Jan. 3.
- Miller, Max, Brooklyn, N. Y. Hair tonics, shampoo, hair pomade. No. 158,355; Aug. 29.
- Miller-McConnell Grain Co., Kansas City, Kans. Stock feed. No. 151,875; Feb. 14.
- Miller, Dr. O. A., Chemical Company, Incorporated, Parsons, W. Va. Antiseptic mouth wash. No. 150,476; Jan. 3.
- Miller-Parrott Baking Co., Terre Haute and Evansville, Ind. Soda crackers. No. 153,604; Mar. 21.
- Miller-Parrott Baking Co., Terre Haute and Evansville, Ind. Soda crackers. No. 153,606; Mar. 21.
- Miller Pasteurizing Machine Company, now by change of name The H. H. Miller Industrial Company, Canton, Ohio. Ice-cream freezers. No. 155,342; May 23.
- Miller, Reese, Hutchinson, Inc. (See Pedersen, Arthur Z., assignor.)
- Miller-Rose Co., La Crosse, Wis. Live and dressed poultry, fresh and preserved eggs. No. 161,895; Nov. 21.
- Miller Rubber Company, The, Akron, Ohio. Certain medical and surgical appliances. No. 152,615; Feb. 28.
- Miller Rubber Company, The, Akron, Ohio. Water bottles and bags, fountain syringes, etc. No. 152,885; Mar. 7.
- Miller Rubber Company, The, Akron, Ohio. Rubber belts for personal wear. No. 154,633; Apr. 18.
- Miller Rubber Company, The, Akron, Ohio. Bathing caps, belts, rubber household gloves. No. 156,351; June 20.
- Miller, Samuel, & Co., New York, N. Y. Hats and caps for men and children. No. 151,874; Feb. 14.
- Miller, Samuel, & Co., New York, N. Y. Hats and caps for men and children. No. 154,634; Apr. 18.
- Miller, Sarah, Baltimore, Md. Butter. No. 160,794; Oct. 24.
- Miller Tool & Mfg. Co., Detroit, Mich. Service tools used in repairing automobiles. No. 159,441; Sept. 26.
- Miller Traction Tread Company, Chicago, Ill. Tractors and parts thereof. No. 160,243; Oct. 17.
- Miller Wall Paper and Paint Co., St. Louis, Mo. House paints. No. 160,581; Oct. 24.
- Miller, Wm. R., Company, Milwaukee, Wis. Lace curtains. No. 154,100; Apr. 4.
- Millers Falls Company, Millers Falls, Mass. Certain tools and machinery. No. 156,709; July 11.
- Millers Falls Company, Millers Falls, Mass. Certain tools. No. 159,442; Sept. 26.
- Millers Milling Company, The, Enid, Okla. Wheat flour. No. 151,876; Feb. 14.
- Millholland Machine Company, Indianapolis, Ind. Turret lathes, screw and stay-bolt machines, etc. No. 154,449; Apr. 11.
- Milligan, G. D., Grocer Co., Springfield, Mo. Overalls, work and dress shirts, khaki pants, etc. No. 156,139; June 13.
- Milligan, G. D., Grocer Co., Springfield, Mo. Canned fruits and vegetables. No. 156,352; June 20.
- Milligan, John C., Louisville, Ky. Compound for treating corns, callouses, warts, and bunions. No. 151,550; Feb. 7.
- Milligan, James C., Pittsburgh, Pa. Toy dart or arrow. No. 158,027; Aug. 22.
- Milliken, Foster, New York, N. Y. Electric street signaling lamps. No. 160,925; Oct. 31.
- Millinaria, Inc., Chicago, Ill. Millinery and other head-gear, consisting of hats and bonnets. No. 161,235; Nov. 7.
- Millman, Abe, New York, N. Y. Silk and cotton mixed goods in the piece. No. 154,333; Apr. 11.
- Millman, Abe, Inc., New York, N. Y. Outer garment for females. No. 160,244; Oct. 17.
- Milloglav, J. P., Los Angeles, Calif. Potatoes in their natural state. No. 154,797; May 9.
- Mill-Rich Service, New York, N. Y. Men's wear and haberdashery, shirts, pyjamas, etc. No. 157,151; July 25.
- Mills Brothers Company, The, doing business as The American Products Company, Cincinnati, Ohio. Tooth, hair, shaving, bath, and vegetable brushes. No. 158,029; Aug. 22.
- Mills Brothers Company, The, doing business as The American Products Company, Cincinnati, Ohio. Shaving cream, toilet soap, and cleaner. No. 162,554; Dec. 19.
- Mills & Gibb Corporation, New York, N. Y. Fabric gloves. No. 157,152; July 25.
- Mills, R. and W., Co., Detroit, Mich. Knit goods. No. 154,204; Apr. 4.
- Mills, Stephen J., Boston, Mass. Foot wash. No. 156,353; June 20.
- Milton, Michael, doing business as Milton Paper Company, New York, N. Y. Writing paper. No. 160,582; Oct. 24.
- Milton Paper Company. (See Milton, Michael.)
- Milwaukee Boston Store. (See Herzfeld-Phillipson Company.)
- Milwaukee Electric Crane & Mfg. Co. Inc., West Allis, Wis. Electric cranes. No. 156,710; July 11.
- Milwaukee-Waukesha Brewing Company, Waukesha, Wis. Ginger ale, root beer, mineral and soda waters. No. 152,886; Mar. 7.
- Milwaukee-Waukesha Brewing Company, Waukesha, Wis. Maltless cereal sirup for beverages. No. 158,030; Aug. 22.
- Milwaukee-Waukesha Brewing Company, Waukesha, Wis. Malt sirup for beverages. No. 158,031; Aug. 22.
- Minard Company, Framingham and South Framingham, Mass. Liquid rub for external use. No. 161,236; Nov. 7.
- Mindlin & Rosenman, New York, N. Y. Yarns and threads of silk, etc. No. 154,101; Apr. 4.
- Mineral Rock Springs, Inc., Kansas City, Mo. Mineral-spring water. No. 161,967; Nov. 28.
- Minerva, Sociedad Anónima, Malaga, Spain. Alimentary oils. No. 150,477; Jan. 3.
- Miniature Breaker Co. Inc., Long Island City, N. Y. Starting switches and circuit interrupters. No. 156,711; July 11.
- Minkota Milling Company, Duluth, Minn., assignor to Duluth-Superior Milling Company. Wheat flour. No. 21,940; renewed Nov. 8, 1922.
- Minneapolis Drug Company, Minneapolis, Minn. Certain articles of stationery. No. 153,607; Mar. 21.
- Minneapolis Drug Company, Minneapolis, Minn. Combs, shoebrims, and buttonhooks. No. 154,836; May 9.
- Minneapolis Drug Company, Minneapolis, Minn. Certain brushes, brooms, and powder puffs. No. 156,486; June 20.
- Minneapolis Society for the Blind, The, Minneapolis, Minn. Woven baskets. No. 162,317; Dec. 12.
- Minnesota Macaroni Co., St. Paul, Minn. Macaroni. No. 156,014; June 13.
- Minnesota Mining & Mfg. Co., St. Paul, Minn. Abrasive paper. No. 155,400; May 30.
- Minnesota Valley Canning Co., Le Sueur, Minn. Canned vegetables. Nos. 162,555-6; Dec. 19.
- Minot, Hooper & Co., New York, N. Y. Cotton piece goods. No. 159,039; Sept. 19.
- Mint Gum Company, Inc., New York, N. Y. Chewing gum. No. 151,877; Feb. 14.
- Minty. (See Palmers, Limited.)
- Minus Pharmacal Co., St. Louis, Mo. Liquid medicinal preparation for the reduction of superfluous flesh. No. 159,953; Oct. 10.
- Minute Tapioca Company, Orange, Mass. Tapioca preparations. No. 154,635; Apr. 18.
- Minute Tapioca Company, Orange, Mass. Prepared gelatin. No. 160,926; Oct. 31.
- Minute Tapioca Company, Orange, Mass. Prepared tapioca and tapioca puddings. No. 161,824; Nov. 21.
- Mi-O-Mi Inc., New York, N. Y. Canned cherries, crushed pineapple, honey, etc. No. 156,712; July 11.
- Mirabene Chemical Co. (See Vickery, Amy L.)
- Miracle Polish Company, Akron, Ohio. Furniture polish. No. 150,478; Jan. 3.
- Mirand Polish Company, Pittsburgh, Pa. Metal polish. No. 154,102; Apr. 4.
- Mirror, The, New York, N. Y. Candies—namely, chocolates. No. 154,636; Apr. 18.
- Mirrolike Mfg. Co., Long Island City, N. Y. Disinfectants, deodorants, and insecticides. No. 161,237; Nov. 7.
- Mirrolike Mfg. Co., Long Island City, N. Y. Certain named soap and other cleaners. No. 162,318; Dec. 12.
- Misner Manufacturing Co., Detroit, Mich. Toilet specialties. No. 161,238; Nov. 7.
- Mission Bead Company, Los Angeles, Calif. Bead necklaces. No. 156,713; July 11.
- Mission Bead Company, Los Angeles, Calif. Certain cleaning compound. No. 159,443; Sept. 26.
- Mission Bead Company, Los Angeles, Calif. Writing ink. No. 161,239; Nov. 7.
- Mississippi Bottling Co. (See Hathaway, Wellington C.)
- Missouri Egg & Poultry Company, Sedalia, Mo. Dressed poultry. Nos. 151,878-9; Feb. 14.
- Missouri Paint and Varnish Co., St. Louis, Mo. Liquid coating material in the nature of a paint. No. 162,446; Dec. 12.
- Mistl Laboratory Co., St. Louis, Mo. Shampoo. No. 155,765; June 6.

- Mitchell, Agnes, London, England. Preparation for removing superfluous hairs from the skin. No. 154,334; Apr. 11.
- Mitchell-Bissell Company, New York, N. Y. Thread guides for textile machinery. No. 152,233; Feb. 21.
- Mitchell-Bissell Company, New York, N. Y. Thread guides for textile machinery. Nos. 155,259-60; May 23.
- Mitchell-Bissell Company, New York, N. Y. Porcelain trimmings for plumbing fixtures. No. 161,821; Nov. 21.
- Mitchell Brothers Company, Chicago, Ill. Ladies' dresses, suits, and cloaks. No. 159,954; Oct. 10.
- Mitchell & Dillon Coal Company, Chicago, Ill. Coal. No. 160,583; Oct. 26.
- Mitchell, Harvey G., doing business as The Hardwood & Parquetry Floor Company, Philadelphia, Pa. Liquid polish for hardwood floors, furniture, etc. No. 162,319; Dec. 12.
- Mitchell, John R., Brooklyn, N. Y. Soaps, soap powder, dishwashing compound, etc. No. 150,906; Jan. 10.
- Mitchell, L. & Co., Chicago, Ill. Washing powder. No. 153,801; Mar. 28.
- Mitchell & Mitchell Manufacturing Company, Fort Smith, Ark. Bed springs. No. 157,544; Aug. 8.
- Mitchell, T. J., & Co. Inc., New York, N. Y. Silk piece goods. No. 160,102; Oct. 10.
- Mitchell, T. J., & Co. Inc., New York, N. Y. Silk piece goods. No. 161,564; Nov. 14.
- Mitchell, William M., Louisville, Ky. Inhaling compound for the protection of firemen and others. No. 155,766; June 6.
- Mittelstaedt, Edward L., doing business as Mocq, Burnier & Cie., Inc., New York, N. Y. Perfume extracts and toilet waters. No. 158,265; Aug. 29.
- Mitroe Export & Import Co. Inc., New York, N. Y. Projection screens for moving pictures. No. 152,462; Feb. 28.
- Mix, J., & Sons. (See Mix, Julius.)
- Mix, Julius, doing business as J. Mix & Sons, London, England. Cigarettes. No. 160,748; Oct. 24.
- Mme. Leo Products Co. (See Rowden, Mary E.)
- Mock & Judson, New York, N. Y. Hosiery. No. 158,032; Aug. 22.
- Mockridge, Whitney, London, Middlesex, England. Book-holders. No. 155,262; May 23.
- Mocq, Burnier & Cie., Inc. (See Mittelstaedt, Edward L.)
- Model Mill Company, Kenton, Tenn. Self-rising flour. No. 159,955; Oct. 10.
- Modern Beverage Company, Chicago, Ill. Nonalcoholic, maltless beverages. No. 160,584; Oct. 24.
- Modern Flour Mills, Macon, Ga. Self-rising wheat flour. No. 153,608; Mar. 21.
- Modern Flour Mills, Macon, Ga. Wheat flour. No. 153,609; Mar. 21.
- Modern Inventions Corporation, New York, N. Y. Name-stamping machines. No. 153,802; Mar. 28.
- Modern Light Supply Company. (See Rabinovitz, Joseph.)
- Modern Neckwear Company. (See Thrilli, Mario F.)
- Moellering's, Wm., Sons, Fort Wayne, Ind. Stucco. No. 160,594; Oct. 24.
- Moench, C., Sons Company, Boston, Mass. Leather. No. 153,937; Mar. 28.
- Moerlein, Christian, Brewing Co., The, Cincinnati, Ohio. Beer. Nos. 161,927-30; Nov. 28.
- Mohawk Bottling Company. (See Pittsfield Coca Cola Bottling Corporation.)
- Mohr, C. H., and Company, Chicago, Ill. Certain medicinal preparation for the treatment of horses and farm stock. No. 152,234; Feb. 21.
- Moline Plow Company, Moline, Ill. Agricultural machinery. No. 160,585; Oct. 24.
- Moline Plow Company, Moline, Ill. All kinds of plows, plowshares, and plow parts. No. 162,830; Dec. 26.
- Moline Pressed Steel Co., East Moline, Ill. Toy motor trucks, steam shovels, and derricks. No. 157,545; Aug. 8.
- Molyneux, Frank L., Painesville, Ohio. Cement for holding artificial teeth firmly in place. No. 162,320; Dec. 12.
- Monaghan, Victor, Company, Greenville, S. C. Cotton piece goods. No. 150,998; Jan. 10.
- Monaghan, Victor, Company, Greenville, S. C. Cotton piece goods. No. 156,822; July 11.
- Monaghan, Victor, Co., Greenville, S. C. Bedspreads. No. 162,999; Dec. 26.
- Monarch Leather Company, Chicago, Ill. Leather. No. 151,194; Jan. 24.
- Monarch Leather Company, Chicago, Ill. Leather. Nos. 155,890-90; June 6.
- Monarch Leather Company, Chicago, Ill. Leather. No. 160,103; Oct. 10.
- Moneb Chemical Co., Kansas City, Mo. Liquid insect killer. No. 161,240; Nov. 7.
- Monger, Roy S., New York, N. Y. Monthly periodical. No. 159,040; Sept. 19.
- Monitor Controller Company, Baltimore, Md. Electrical switches. No. 158,496; Sept. 5.
- Monk, George B., San Francisco, Calif. Magazine published at varying intervals. No. 157,717; Aug. 15.
- Monmouth County Farmers' Exchange, Freehold, N. J. Commercial fertilizers. No. 150,479; Jan. 3.
- Monmouth Gate & Manufacturing Company, Monmouth, Ill. Gates constructed of wood and steel. No. 160,586; Oct. 24.
- Monmouth Gate & Manufacturing Company, Monmouth, Ill. Gates constructed of wood and steel. No. 161,713; Nov. 14.
- Monroe Calculating Machine Company, New York, N. Y. Inter-office organ and advertising magazine. No. 152,036; Feb. 14.
- Monroe, Frank A., Jamestown, N. Y. Sterilized medicated fiber for toothache and earache. No. 152,887; Mar. 7.
- Monroe Tire Corporation, Chicago, Ill. Monthly trade publication. No. 155,020; May 16.
- Monroe Tire Corporation, Chicago, Ill. Pneumatic rubber tires. No. 155,901; June 6.
- Monroe Tire Corporation, Chicago, Ill. Monthly trade publication. No. 162,831; Dec. 26.
- Montague, Carroll H., Richmond, Va. Automobile electric lamps. No. 152,888; Mar. 7.
- Montague, W. R., Company, The, La Crosse, Wis. Chocolate-covered nut bar. No. 157,718; Aug. 15.
- Montgomery Bros. Inc., Philadelphia, Pa. Steam and hydraulic packings. No. 154,103; Apr. 4.
- Montgomery, J. R., Company, The, Windsor Locks, Conn. Yarns, warps, flosses, threads, and tinsel threads. No. 157,115; July 25.
- Montgomery, Le Roy, South Norwalk, Conn. Expansion bolts. No. 154,995; May 16.
- Montgomery-Winston, Altadena, Calif. Toys. No. 151,195; Jan. 24.
- Montigny, Louis, Courbevoie, France. Liquid compositions for sealing pipe and motor casting joints. No. 151,037; Jan. 10.
- Moon-Beverage Company, The, Milwaukee, Wis. Nonalcoholic, maltless beverage. No. 151,346; Jan. 31.
- Moon Chukle Products Co. (See Ashcroft, Moses.)
- Moorcroft, W., Limited, Burslem, Staffordshire, England. Handmade pottery. No. 150,690; Jan. 3.
- Moorcroft, W., Limited, Burslem, England. Hand-made pottery. No. 153,496; Mar. 21.
- Moore, Benjamin, & Co., Jersey City, N. J., and Brooklyn, N. Y. Varnish. No. 152,889; Mar. 7.
- Moore, Benjamin, & Co., Jersey City, N. J., and Brooklyn, N. Y. Mixed paints, stains, paint enamels, etc. No. 159,041; Sept. 19.
- Moore, Benjamin, & Co., Jersey City, N. J., and Brooklyn, N. Y. Varnish stain. No. 159,444; Sept. 26.
- Moore, Benjamin, & Co., Jersey City, N. J., and Brooklyn, N. Y. Cold-water wall finish. No. 161,563; Nov. 14.
- Moore, Benjamin, & Co., Jersey City, N. J., and Brooklyn, N. Y. Stains and finishes. No. 161,566; Nov. 14.
- Moore, Charles H., Northport, Wash. Preparation for rheumatism, lumbago, neuritis, etc. No. 155,767; June 6.
- Moore Company, The, Temperance, Mich. Cough sirup. No. 150,480; Jan. 3.
- Moore, Edward J., Sons, Inc., Long Island City, N. Y. Antiseptic ointment for piles, scalds, chafing, etc. No. 154,104; Apr. 4.
- Moore Electric Corporation, The, Chicago, Ill. Electric vibrators. No. 161,373; Nov. 7.
- Moore, J. Johnston, Montgomery, Ala. Ointment for the skin for the treatment of eczema, ringworm, etc. No. 154,105; Apr. 4.
- Moore, Kenneth W., Chicago, Ill. Deodorants. No. 158,497; Sept. 5.
- Moore, Martin L., Memphis, Tenn. Certain named tonic. No. 154,335; Apr. 11.
- Moore, Maud C., San Francisco, Calif. Toilet cream. No. 150,481; Jan. 3.
- Moore, Oliver J., doing business as Moore's Printercraft Shop, Washington, D. C. Printed pamphlets, books, circulars, and calendars. No. 161,021; Oct. 31.
- Moore Pen Company, The, Boston, Mass. Fountain pens and lead pencils. No. 160,587; Oct. 24.
- Moore, Walton N., Dry Goods Co., San Francisco, Calif. Draperies made of certain named materials. No. 154,336; Apr. 11.
- Moore, Walton N., Dry Goods Co., San Francisco, Calif. Textile hand and face and bath towels. No. 154,337; Apr. 11.
- Moore, Walton N., Dry Goods Co., San Francisco, Calif. Cotton and cotton-mixed wash dress piece goods. No. 153,747; Sept. 12.
- Moore, Walton N., Dry Goods Co., San Francisco, Calif. Knitted hosiery and underwear. No. 159,044; Sept. 19.
- Moore, Zannie E., Granger, Tex. Medicinal preparation used as a remedy for tuberculosis. No. 152,235; Feb. 21.
- Moore's Printercraft Shop. (See Moore, Oliver J.)
- Moran, James T., Knoxville, Tenn. Purgative, a tonic, purgative, kidney, and liver preparation. No. 150,482; Jan. 3.
- More Candy Co. (See Brush, Chas. L.)
- More, Walter H., Co., Inc., New York, N. Y. Shoes. No. 158,502; Sept. 5.
- Moreland Sales Corporation, Newark, N. J. Radio receiving apparatus and sets. No. 162,321; Dec. 12.
- Morene Products Co. Inc., New York, N. Y. Waterproofing compound for use in connection with stone, etc. Nos. 153,248-50; Mar. 14.
- Morgan, Chester M., Findlay, Ohio. Embalming fluid. No. 157,366; Aug. 1.
- Morgan Company, The, Vincennes, Ind., and Peoria, Ill. Varnishes, finishes, lacquers, etc. Nos. 159,042-3; Sept. 19.

Alphabetical list of registrants of trade-marks—Continued.

- Morgan, Sarah M., Belvedere, Calif. Recipes. No. 162,322; Dec. 12.
- Morgan, William A., Atlanta, Ga. Eyewater. No. 155,768; June 6.
- Morgenstern & Brill, New York, N. Y. Hand bags, ladies' satchels. No. 154,338; Apr. 11.
- Morin, Stanley, doing business as Instant Carbon Remover Company, Corona, N. Y., and Instant Products Corporation, Boston, Mass. Chemical carbon remover and chemical grease and stain remover. No. 160,927; Oct. 31.
- Moritz, Melvin, doing business as The Snow White Products Company, New York, N. Y. Ironing-board covers. No. 161,896; Nov. 21.
- Moriuchi, Hisaji, Osaka, Japan. Glass armlets. Nos. 153,251-2; Mar. 14.
- Morrell, John, & Company, Ottumwa, Iowa. Bacon. No. 150,483; Jan. 3.
- Morrell, John, & Company, Ottumwa, Iowa. Hams, bacon, picnic hams, dried beef, etc. No. 150,484; Jan. 3.
- Morrell, John, & Company, Ottumwa, Iowa. Lard. No. 151,880; Feb. 14.
- Morrell, John, & Co., Ottumwa, Iowa. Bacon, fresh pork, and fresh sausage. No. 151,881; Feb. 14.
- Morrell, John, & Company, Ottumwa, Iowa. Certain foods and ingredients of foods. No. 153,253; Mar. 14.
- Morrell, John, & Company, Ottumwa, Iowa. Certain foods. No. 153,803; Mar. 28.
- Morrell, John, & Company. Tongues, sausage, souse, luncheon meat, etc. No. 154,637; Apr. 18.
- Morrell, John, & Company, Ottumwa, Iowa. Lard. No. 154,798; May 9.
- Morrell, John, & Co., Ottumwa, Iowa. Canned, smoked, and dried meats, soup, marmalade, mincemeat, etc. No. 156,540; June 27.
- Morrell, John, & Company, Ottumwa, Iowa. Marmalade, plum pudding, dairy products, meats, and pork and beans. No. 159,445; Sept. 26.
- Morrell, John, & Company, Ottumwa, Iowa. Meats, lard, dairy products, marmalade, etc. No. 161,822; Nov. 21.
- Morrier, Hormisdas, doing business as Bible Land Cigar Company, Portsmouth, N. H. Manufactured cigars. Nos. 158,503-4; Sept. 5.
- Morris & Co. (See Morris, Nelson & Co., assignors.)
- Morris & Company, Chicago, Ill. Meats, meat products, and other foods. No. 159,446; Sept. 26.
- Morris & Company, Chicago, Ill. Oleomargarine. No. 159,956; Oct. 10.
- Morris & Company, Chicago, Ill. Meat, meat products, and other foods. No. 160,588; Oct. 24.
- Morris & Company, Chicago, Ill. Meats, meat products, and other foods. No. 162,832; Dec. 26.
- Morris, Harry S., New York, N. Y. Ladies' hats. No. 160,245; Oct. 17.
- Morris, Lulu E., Baltimore, Md. Certain toilet preparations. No. 150,485; Jan. 3.
- Morris, Mann & Reilly, Chicago, Ill. Powder puffs. Nos. 151,196-7; Jan. 24.
- Morris, Mann & Reilly, Chicago, Ill. Hair nets. No. 160,657; Oct. 24.
- Morris, Mann & Reilly, Inc., Chicago, Ill. Hair nets. No. 161,567; Nov. 14.
- Morris, Mann & Reilly, Inc., Chicago, Ill. Hair nets. No. 162,557; Dec. 19.
- Morris Nagel & Co., Inc., New York, N. Y. Ladies' and misses' dresses. No. 156,894; July 18.
- Morris, Nelson & Co., Chicago, Ill., assignor to Morris & Co. Beef and hog products. No. 19,515; renewed May 19, 1921.
- Morris, Nelson & Co., Chicago, Ill., assignor to Morris & Company. Hog and beef products. No. 20,175; renewed Sept. 29, 1921.
- Morris, Nelson & Co., Chicago, Ill., assignor to Morris & Company. Hog and beef products. No. 20,377; renewed Nov. 17, 1921.
- Morris, William L., Broseley, Mo. Egg candlers. No. 155,263; May 23.
- Morrison, J. L., Company, Inc., The. (See Morrison, James L., assignor.)
- Morrison, James L., New York, N. Y., assignor to The J. L. Morrison Company, Inc. Wire-stitching machines. No. 19,124; renewed Mar. 3, 1921.
- Morrison, James L., New York, N. Y., assignor to The J. L. Morrison Company, Inc. Wire for stitching machines. No. 19,125; renewed Mar. 3, 1921.
- Morrison, Laurence W., Milwaukee, Wis. Leather slippers and shoes. No. 157,154; July 25.
- Morrison, Ricker Mfg. Co., Grinnell, Iowa. Gloves made of leather. No. 151,882; Feb. 14.
- Morrison, William N., Los Angeles, Calif. Key-ring hooks. No. 152,463; Feb. 28.
- Morrissey, E. A., Company, Boston, Mass. Medicinal tonics for bronchial troubles, colds, etc. No. 158,266; Aug. 29.
- Morrow, J. Thomas, Dodge City, Kans. Gasoline, kerosene, distillates, etc. No. 152,890; Mar. 7.
- Morrow, Walter E., Lancaster, Pa. Talking-machine needles. No. 156,714; July 11.
- Morse & Burt Co., Inc., Brooklyn, N. Y. Shoes of leather, fabric, and combinations. No. 153,254; Mar. 14.
- Morse and Burt Co., Inc., Brooklyn, N. Y. Shoes. No. 158,505; Sept. 5.
- Morse & Burt Co., Inc., Brooklyn, N. Y. Shoes of leather, fabric, and combinations of leather and fabric. No. 158,748; Sept. 12.
- Morse & Burt Co., Inc., Brooklyn, N. Y. Appliances for obtaining casts for fitting shoes. No. 159,447; Sept. 26.
- Morse & Burt Co., Inc., Brooklyn, N. Y. Shoes of leather, fabric, and combinations. No. 161,241; Nov. 7.
- Morse Manufacturing Company, Inc., Newark, N. J. Radio receiving apparatus. No. 158,498; Sept. 5.
- Morton Sundour Fabrics, Ltd., Dentonhill, Carlisle, England. Cotton piece goods. Nos. 152,236-7; Feb. 21.
- Morton Sundour Fabrics Ltd., Dentonhill and Carlisle, England. Floor cloth—viz., floor covering. No. 153,255; Mar. 14.
- Morton Sundour Fabrics Ltd., Dentonhill, Carlisle, England. Cotton piece goods. No. 157,719; Aug. 15.
- Mortona Medicine Co. (See Swinburne, Arthur H.)
- Morvay & Son Manufacturing Company, Bridgeton, N. J. Chemises, camisoles, etc. No. 150,486; Jan. 3.
- Moseley, George V., San Antonio, Tex. Nonalcoholic maltless beverage. No. 152,037; Feb. 14.
- Moses, Stephen E., Birmingham, Ala. Hair grower. No. 150,487; Jan. 3.
- Moskowitz, Max, New York, N. Y. Cigars. No. 153,256; Mar. 14.
- Mosquera, Leoncio, doing business as Wall Street Tobacco Company, New York, N. Y. Cigarettes. No. 160,246; Oct. 17.
- Moss Glove & Hosiery Co., San Francisco, Los Angeles, Oakland, Sacramento, Stockton, and Fresno, Calif., and Denver, Colo. Leather and fabric gloves and hosiery. No. 156,354; June 20.
- Moss & Lowenhaupt Cigar Co., St. Louis, Mo. Cigars, cheroots, cigarettes, smoking and chewing tobacco. No. 155,491; May 30.
- Motekewecz, Cecelia, New York, N. Y. Malt extracts. No. 151,884; Feb. 14.
- Moth K-L Company. (See Littlehale, P. B.)
- Motometer Company, Inc., The, Long Island City, N. Y. Temperature-indicating devices for engines. No. 150,907; Jan. 10.
- Motor Economists, Inc., Los Angeles, Calif. Carburetors. No. 161,823; Nov. 21.
- Motor-Kleen Corporation, Long Island City, N. Y. Carbon remover. No. 156,140; June 13.
- Motor Oil Specialty Co., New York, N. Y. Lubricating oils and greases. No. 153,497; Mar. 21.
- Motor Wheel Corporation, Lansing, Mich. Load-carrying wheels. No. 162,833; Dec. 26.
- Motors Efficiency Co. (See Leslie, Eugene H.)
- Mott, J. L., Company, Trenton, N. J. Seats and covers for water closets. No. 158,267; Aug. 29.
- Mott & Wood Co., Wisconsin Rapids, Wis. Butter. No. 160,590; Oct. 24.
- Motta, Clara L., Modesto, Calif. One-piece women's textile fabric undergarments. No. 151,883; Feb. 14.
- Mouat-Swan Corporation, Boston, Mass. Cardboard display forms. No. 159,957; Oct. 10.
- Moulin, Felix, Paris, France. India rubber solution to be applied on leather and on rubber for repairing same. No. 153,498; Mar. 21.
- Moulton, Charles W. H., Somerville, Mass. Shoe racks. No. 153,938; Mar. 28.
- Moulton, Walter E., Geneva, Ohio. Lens. No. 157,155; July 25.
- Moulton, William H., Belleville, N. J. Chemical preparation for removing carbon from the cylinders of internal-combustion engines. No. 154,339; Apr. 11.
- Mound City Duck and Rubber Co., St. Louis, Mo. Tents, tarpaulin, and wagon covers. No. 159,958; Oct. 10.
- Mound Coffin Co., St. Louis, Mo. Caskets. No. 162,558; Dec. 19.
- Mount Hope Finishing Company, Dighton, Mass. Cotton, silk, and other piece goods. No. 157,546; Aug. 8.
- Mountvale Company, Incorporated, The, Saranac Lake, N. Y. Beverages sold as soft drinks and sirups for making same. No. 161,968; Nov. 28.
- Mouquin Restaurant and Wine Company Limited, New York, N. Y. Maltless fruit-juice beverage sold as soft drink and sirups for making same. No. 157,427; Aug. 1.
- Mowery, John H., Cincinnati, Ohio. Preparation for the treatment of pyorrhea. No. 152,238; Feb. 21.
- Moxie Company, The, Boston, Mass. Candies. No. 156,355; June 20.
- Mozell Manufacturing Company, New York, N. Y. Specially-treated cloths for cleaning silver and gold. No. 162,559; Dec. 19.
- Mucine Products Company, Chicago, Ill. Embrocations known as spinal massage creams. No. 158,033; Aug. 22.
- Mueller, L. J., Furnace Co., Milwaukee, Wis. Hot-air furnaces. No. 159,959; Oct. 10.
- Mueller Metals Company, Port Huron, Mich. Metal (commercial) rod. Nos. 152,464-5; Feb. 28.
- Mueller Metals Company, Port Huron, Mich. Metal castings and forgings. No. 162,560; Dec. 19.
- Mulford, H. K., Company, Philadelphia, Pa. Syringes for medical purposes. No. 158,499; Sept. 5.
- Mulford, H. K., Company, Philadelphia, Pa. Preparation used as a remedy for insomnia and restlessness. No. 159,448; Sept. 26.
- Mulhens & Kropff Incorporated, New York, N. Y. Toilet soaps. No. 162,561; Dec. 19.

- Mulhern, John, Company, San Francisco, Calif. Non-alcoholic, noncereal maltless beverage and sirups for making same. No. 150,908; Jan. 10.
- Mulhern, John, Company, San Francisco, Calif. Non-alcoholic, noncereal, maltless beverages and sirups for making same. No. 156,015; June 13.
- Mulholland, John H., Philadelphia, Pa. Cakes, cakes especially molded for holding and serving ice cream and frozen deserts, etc. No. 162,834; Dec. 26.
- Müller, Arthur, Bauten und Industriewerke, Johannisthal, near Berlin, Germany. Building materials and portable buildings. Nos. 160,373-4; Oct. 24.
- Müller, Arthur, Bauten und Industriewerke, Johannisthal, near Berlin, Germany. Certain machinery and parts thereof. No. 161,914; Nov. 28.
- Müller, Edmund, & Mann, Charlottenburg, near Berlin, Germany, assignor to The Chemical Foundation, Inc. Anticorrosive oils, paints, varnishes, and lacquers. No. 20,799; renewed Mar. 1, 1922.
- Müller, Hermann, Halle/Saale, Germany. Razors, certain knives, scissors, etc. No. 153,268; Aug. 29.
- Muller-Houseman Company, The, Grand Rapids, Mich. Vanilla flavoring compounds. No. 157,156; July 25.
- Muller and Phipps (Asia) Limited, New York, N. Y. Hairpins and safety pins. No. 157,720; Aug. 15.
- Muller and Phipps (Asia) Limited, New York, N. Y. Carriage gongs. No. 159,449; Sept. 26.
- Mullis, Charles Manufacturing Company, The, Greensburg, Ind. Ornamental and ornamented pottery. No. 152,466; Feb. 28.
- Mummert, Maurice M., Goshen, Ind. Containers for the dust, etc., taken from vacuum cleaners. No. 151,347; Jan. 31.
- Mumslap Company, The. (See Miller, Dwight H.)
- Mundet, L., & Son, Brooklyn, N. Y. Composition cork gaskets, and cork sheets from which gaskets are cut. No. 160,591; Oct. 24.
- Mundy, Judson, Cleveland, Ohio. Certain locomotives, valve gearing, steam engines, and metal-working machinery. No. 158,269; Aug. 29.
- Munger, Louis A., Long Island City, N. Y. Spark plugs and spark-plug cores. No. 155,343; May 23.
- Mun-Keel Products Corporation, Los Angeles, Calif. Stamped pads for inking rubber stamps. No. 151,552; Feb. 7.
- Munning, A. P., & Co., Matawan, N. J. Certain lime polishing composition. No. 160,795; Oct. 24.
- Munning, A. P., & Co., Matawan, N. J. Electroplating machines. No. 161,022; Oct. 31.
- Munning, A. P., & Co., Matawan, N. J. Cast anodes in nickel, copper, brass, zinc, etc. No. 162,645; Dec. 19.
- Munsell, Eugene L., W. Kingsley, and F. Brooks, New York, N. Y., assignors to Mica Insulator Company. Electrical insulators. No. 22,623; renewed Mar. 7, 1923.
- Munsingwear Corporation, The, Minneapolis, Minn. Underwear, knit or woven, and hosiery for men, women, and children. Nos. 162,835-8; Dec. 26.
- Munson Manufacturing Company, The, Chicago, Ill. Paper straws. No. 152,891; Mar. 7.
- Munter, Charles, New York, N. Y. Certain articles of clothing. No. 157,157; July 25.
- Muraour, Henri, & Cie., Grasse, France. Certain toilet preparations. Nos. 156,356-7; June 20.
- Muratti, B., Sons and Company Limited, Manchester, England. Cigarettes. No. 156,016; June 13.
- Murdoch, H., & Company, Pittsburgh, Pa. Babbitt metal. No. 162,168; Dec. 5.
- Murphy, John B., Inc., New York, N. Y. Medals and badges. No. 162,323; Dec. 12.
- Murphy, Mark J., Chicago, Ill. Malt extract. No. 158,506; Sept. 5.
- Murphy, Mark J., doing business as Reliance Malt Products Company, Chicago, Ill. Malt extract. No. 159,960; Oct. 10.
- Murphy, P. H., Company, New Kensington, Pa. Railroad-car metal roofs and parts of same. Nos. 153,257-8; Mar. 14.
- Murphy Varnish Company, Newark, N. J. White and colored paint enamels. No. 152,892; Mar. 7.
- Murray, John F., New York, N. Y. Pharmaceutical preparations for stimulating action of the liver cells. No. 158,749; Sept. 12.
- Murray, John H., Boston, Mass. Candies, fancy ices, and cakes. No. 154,799; May 9.
- Murry, George E., Pequea, Pa. Liniment for certain uses. No. 158,034; Aug. 22.
- Muser Brothers, New York, N. Y. Silk in the piece. No. 156,358; June 20.
- Muser Brothers, New York, N. Y. Cotton net. No. 156,359; June 20.
- Muser Brothers, New York, N. Y. Artificial silk in the piece. No. 156,360; June 20.
- Muser Brothers, New York, N. Y. Piece goods of silk and cotton mixtures. No. 156,361; June 20.
- Muser Brothers, New York, N. Y. Silk in the piece. No. 156,586; July 4.
- Muser Brothers, New York, N. Y. Silk in the piece. No. 160,104; Oct. 10.
- Musket, W. E., San Francisco, Calif. Fire brick, furnace and baffle tiles, high-temperature cement. Nos. 156,715-6; July 11.
- Musical Courier Company, Inc., New York, N. Y. Musical magazine published weekly. No. 162,324; Dec. 12.
- Muskogee Wholesale Grocer Company, Muskogee, Okla. Candy. No. 154,638; Apr. 18.
- Muster-Camp Co. (See Baker, John A.)
- Muszynski, Kazimierz J., Buffalo, N. Y. Eye tonic. No. 158,035; Aug. 22.
- Mute-A-Phone Corporation, New York, N. Y. Telephone mufflers. No. 153,259; Mar. 14.
- Mutual Cap Front Mfg. Co., New York, N. Y. Peaks or visors for caps. No. 161,568; Nov. 14.
- Mutual Hosiery Mills, Inc., Philadelphia, Pa. Full-fashioned and seamless silk hosiery. No. 158,750; Sept. 12.
- Mutual Pharmacal Company, Boston, Mass. Certain medicinal preparations. No. 152,893; Mar. 7.
- Mutual Trading Company, New York, N. Y. Phonographs, talking machines, and records therefor. No. 151,193; Jan. 24.
- Myer, Henry, & Company, Baltimore, Md. Negligee shirts. No. 155,163; May 16.
- Myerow Bros., Boston, Mass. Bicycles. No. 160,592; Oct. 24.
- Myers Dry Goods Co., Morristown, Tenn. Men's, women's, and children's knitted or textile underwear, sweaters, neckties, hats, etc. No. 157,158; July 25.
- Myers, Leonard, Gloversville, N. Y. Automobile and stove polishing mitts, etc. No. 153,260; Mar. 14.
- Myers Manufacturing Co., Los Angeles, Calif. Bathing suits. No. 154,639; Apr. 18.
- Myers Manufacturing Co., Los Angeles, Calif. Bathing suits. No. 158,036; Aug. 22.
- Myerson, Amson L., Philadelphia, Pa. Certain articles of clothing. No. 150,488; Jan. 3.
- Myles Salt Co. Ltd., New Orleans, La. Salt. No. 155,902; June 6.
- Mystery Drink Company. (See Larkin, Thomas W., & Co.)
- Mystol Manufacturing Co., Glens Falls, N. Y. Food-flavoring extract. No. 154,800; May 9.
- N. & G. Taylor Co. Incorporated, Philadelphia, Pa. Ferrous and nonferrous sheet metal. No. 161,843; Nov. 21.
- N. and H. Company, Kansas City, Kans. Vermifuge. No. 158,507; Sept. 5.
- N. J. Car Spring and Rubber Company, Jersey City, N. J. Hydrant hose and machine belting. No. 17,710; renewed Mar. 25, 1920.
- N. M. T. A. Mfg. Co. (See Rosenfield, Adolph A.)
- Naamlooze Vennootschap Droste's Cacao-en Chocolade-fabrieken, Haarlem, Netherlands. Pastils of chocolate. No. 156,017; June 13.
- Naamlooze Vennootschap Maatschappij voor Wasverwerking, Amsterdam, Netherlands. Boot polish of all kinds. No. 157,721; Aug. 15.
- Naamlooze Vennootschap Oliefabrieken Insulunde, Amsterdam, Netherlands. Soaps. No. 150,909; Jan. 10.
- Naamlooze Vennootschap tot Exploitatie van Cacao-en Chocoladefabrieken Maatschappij, A. Driessen, Rotterdam, Netherlands. Chocolate, cocoa, cacao. No. 160,595; Oct. 24.
- Nafziger Baking Company, Kansas City, Mo. Bread. No. 156,487; June 20.
- Nagano, Shinsaku, Chicago, Ill. Molasses. No. 152,075; Feb. 14.
- Nagel-Chase Mfg. Co., The, Chicago, Ill. Gasoline lamps. No. 152,319; Feb. 21.
- Nakoma Laboratories. (See Pleasant, Robert L.)
- Nalgen Chemical Company, Seattle, Wash. Medicinal preparation. No. 154,340; Apr. 11.
- Nally, Herbert, London, England. Golf balls and golf clubs. No. 155,022; May 16.
- Namm, A. I., & Son, Inc., Brooklyn, N. Y. Children's shoes. No. 162,099; Dec. 5.
- Naregan, Joseph E., Los Angeles, Calif. Suspensories. No. 158,752; Sept. 12.
- Narrow Fabric Co., The, West Reading, Pa. Woven and braided trimmings. No. 162,839; Dec. 26.
- Nash Coffee Company, Minneapolis, Minn. Coffee. No. 156,895; July 18.
- Nash Coffee Company, Minneapolis, Minn. Coffee. No. 159,451; Sept. 26.
- Nash Engineering Company, South Norwalk, Conn. Vacuum heating and condensation pumps. No. 153,261; Mar. 14.
- Nash Engineering Co., South Norwalk, Conn. Relief valves and ball float valves. No. 160,105; Oct. 10.
- Nash Engineering Co., South Norwalk, Conn. Certain pumps and compressors and flexible couplings for machinery, etc. No. 161,897; Nov. 21.
- Nash Hardware Company, Fort Worth, Tex. Liquid-fuel or oil and gas heaters and cookstoves. No. 160,247; Oct. 17.
- Nashua Manufg. Company, Nashua, N. H. Cotton suitings. No. 155,492; May 30.
- Nassau, A. L., Columbus, Ohio. Hair nets. No. 154,341; Apr. 11.
- Nast, Condé, New York, N. Y. Bimonthly publication. No. 157,547; Aug. 8.
- Natalie, Washington, D. C. Children's dresses. No. 161,569; Nov. 14.
- Nathan & Cie. Laboratories Cadum, Courbevoie, France. Tooth paste, cold cream, complexion powder, etc. No. 152,239; Feb. 21.
- Nathan and Cohen Co. Inc., New York, N. Y. Silk and cotton warp mixture piece goods. No. 152,616; Feb. 28.

Alphabetical list of registrants of trade-marks—Continued.

- Nathan, Morphy & Co., Inc., Lewiston, Me. Shoes. No. 157,159; July 25.
- National Almond Products Co. Inc., Brooklyn, N. Y. Granulated nuts. No. 154,759; Apr. 18.
- National Almond Products Co. Inc., Brooklyn, N. Y. Sliced nuts. No. 154,760; Apr. 18.
- National Aniline & Chemical Company, Incorporated, New York, N. Y. Dyestuffs, certified food colors, and intermediates. No. 150,489; Jan. 3.
- National Aniline & Chemical Company, Inc., New York, N. Y. Dyes, dyestuffs, and colors. Nos. 151,553-8; Feb. 7.
- National Aniline & Chemical Company, Inc., New York, N. Y. Coal-tar dyestuffs. No. 153,804; Mar. 28.
- National Aniline & Chemical Company, Inc., New York, N. Y. Coal tar dyestuffs. No. 156,488; June 20.
- National Aniline & Chemical Company, Inc., New York, N. Y. Dyes, dyestuffs, and colors. No. 160,928; Oct. 31.
- National Aniline & Chemical Company, Incorporated, New York, N. Y. Coal-tar chemicals or intermediates, rubber accelerators or catalyzers, rubber compounding ingredients, and flotation agents. Nos. 160,929-33; Oct. 31.
- National Aniline & Chemical Company, Inc., New York, N. Y. Dyes, dyestuffs, and colors. No. 161,242; Nov. 7.
- National Asbestos Manufacturing Co., Jersey City, N. J. Prepared roofing. No. 150,490; Jan. 3.
- National Asbestos Manufacturing Co., Jersey City, N. J. Prepared roofing. No. 152,467; Feb. 28.
- National Auto Supply Co., Allentown and Quakertown, Pa. Cotton-fabric automobile tires with rubber tread, automobile tire tubes, and rubber and fabric patches. No. 159,961; Oct. 10.
- National Automatic Tool Company, The, Richmond, Ind. Drilling, reaming, and tapping machines. No. 155,264; May 23.
- National Bedding Co., The, Leavenworth, Kans. Mattresses. No. 151,038; Jan. 10.
- National Beverage Distributing Co., Milwaukee, Wis. Liquid malt extract. No. 151,348; Jan. 31.
- National Billiard Chalk Co., Chicago, Ill. Billiard chalks. No. 157,274; July 25.
- National Biscuit Company, Jersey City, N. J., and New York, N. Y. Ice-cream cones. No. 151,885; Feb. 14.
- National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. Nos. 152,240-2; Feb. 21.
- National Biscuit Company, New York, N. Y. Biscuits and crackers. No. 153,610; Mar. 21.
- National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuits. No. 159,452; Sept. 26.
- National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 162,840; Dec. 26.
- National Blank Book Co., Holyoke, Mass. Loose-leaf binders and bound blank books and indexes. No. 160,596; Oct. 24.
- National Candy Company. (See Pan Confection Company, assignor.)
- National Caramel Co., Lancaster, Pa. Caramels, chocolates, and other candies. No. 154,640; Apr. 18.
- National Carbon Company, Inc., New York, N. Y. Electrodes for electric furnace and electrolyte operations. No. 151,559; Feb. 7.
- National Carbon Company, Inc., New York, N. Y. Electric batteries. No. 152,617; Feb. 28.
- National Carbon Company, Inc., New York, N. Y. Dry batteries. No. 155,771; June 6.
- National Carbon Company, Inc., New York, N. Y. Arc-light carbons. Nos. 155,903-4; June 6.
- National Carbon Company, Inc., New York, N. Y. Portable electric lights and dry batteries. No. 156,599; July 4.
- National Catholic Welfare Council, Washington, D. C. Printed pamphlets. No. 155,265; May 23.
- National Checking Company, St. Louis, Minn. Check punches and holders. No. 153,939; Mar. 28.
- National Cloak & Suit Co., New York, N. Y. Certain articles of clothing. No. 155,023; May 16.
- National Cloak & Suit Co., New York, N. Y. Certain notions. No. 155,496; May 30.
- National Coat & Apron Supply Co., Boston, Mass. Men's, women's, and children's coats, aprons, frocks, and gowns, and men's vests, pants, etc. No. 162,971; Dec. 26.
- National Commodities Company, Wilmington, Del., and Philadelphia, Pa. Hair nets. Nos. 156,362-3; June 20.
- National Commodities Co., Philadelphia, Pa. Sanitary human-hair nets. No. 156,717; July 11.
- National Commodities Co., Philadelphia, Pa. Sanitary human-hair nets. No. 162,841; Dec. 26.
- National Consolidated Drug Co., Great Falls, Mont. Certain medicinal preparations. No. 158,037; Aug. 22.
- National Cork Products, Inc., Newark, N. J. Cork sheets. No. 154,106; Apr. 4.
- National Cream Fried Cake Corporation, Columbus, Ohio. Fried cakes and doughnuts. No. 159,453; Sept. 26.
- National Cream Fried Cake Corporation, Columbus, Ohio. Doughnuts. No. 159,631; Sept. 26.
- National Dairy Co., The, Toledo, Pioneer, and Oak Harbor, Ohio, and Ennis and Morenci, Mich. Sterilized milk put up in sealed containers. No. 156,575; June 27.
- National Drug Stores Corp., New York, N. Y. Tooth paste. No. 150,491; Jan. 3.
- National Drug Stores Corporation, New York, N. Y. Invalid rings, sprays, surgeons' operating rubber gloves, ice caps. No. 150,910; Jan. 10.
- National Drug Stores Corp., New York, N. Y. Assorted chocolates. No. 160,597; Oct. 24.
- National Dry Kiln Co., The, Indianapolis, Ind. Flexible sheet material made of woven fabric and asbestos. No. 153,263; Mar. 14.
- National Enameling & Stamping Co., New York, N. Y. Woven wicks. No. 160,248; Oct. 17.
- National Exchange Club, The, Toledo, Ohio. Monthly publication. No. 159,045; Sept. 19.
- National Fiber Textile Company, Neenah, Wis. Woven fiber rugs. No. 162,842; Dec. 26.
- National Food Products Co., Chicago, Ill. Peanuts and peanut butter. No. 160,106; Oct. 10.
- National Fruit Flavor Co., New Orleans, La. Flavoring extracts for non-alcoholic beverages. No. 156,896; July 18.
- National Game Company, The, Toledo, Ohio. Parlor baseball game. No. 157,548; Aug. 8.
- National Garter Company, Cincinnati, Ohio. Garters. No. 158,038; Aug. 22.
- National Glove Co., Columbus, Ohio. Leather and fabric gloves. No. 157,826; Aug. 15.
- National Hair Goods Co., Chicago, Ill. Hair nets. No. 160,796; Oct. 24.
- National Herb Medicine Company of Missouri, The, St. Louis, Mo. Female tonic. No. 153,805; Mar. 28.
- National Home Appliance Corporation, Detroit, Mich. Household appliances. No. 159,454; Sept. 26.
- National Independent Oil Company, York, Pa. Lubricating oils and greases, gasoline, etc. No. 153,262; Mar. 14.
- National Knitting Machine Co. Inc., St. Johnsville, N. Y. Warp-knitting machines. No. 156,718; July 11.
- National Laboratories. (See Abshear, Charles D.)
- National Laboratories. (See Feeler, William H.)
- National Licorice Company, Brooklyn, N. Y. Licorice tablets or wafers. No. 156,018; June 13.
- National Magnesite Stucco Co., The, Wyandotte, Mich. Magnesite stucco. No. 160,598; Oct. 24.
- National Marine Engineers' Beneficial Association, Washington, D. C. Official journal of this organization. No. 158,753; Sept. 12.
- National Marking Machine Company, The, Cincinnati, Ohio. Chemical preparation. No. 159,455; Sept. 26.
- National Mattress Co. Inc., Lynchburg, Va. Iron beds, bed springs, cots, mattresses, pillows, etc. No. 159,046; Sept. 19.
- National Medico-Specialties Laboratories, San Francisco, Calif. Certain medicinal preparations. No. 155,493; May 30.
- National Metal Ware Co., Inc., Brooklyn, N. Y. Certain kitchen utensils of aluminum. No. 160,599; Oct. 24.
- National Organization for Public Health Nursing, New York, N. Y., and Cleveland, Ohio. Cover of its educational and scientific monthly magazine. No. 162,562; Dec. 19.
- National Oven Company, The, Beacon, N. Y. Bakers' ovens. No. 152,099; Feb. 14.
- National Paper Can Company, The, Milwaukee, Wis. Coffee. No. 156,364; June 20.
- National Paper Can Company, The, Milwaukee, Wis. Paper containers for tobacco and cigars. No. 161,969; Nov. 28.
- National Paper Products Company, San Francisco, Calif. Dispensing cabinets and certain boxes, cans, and cases. No. 153,264; Mar. 14.
- National Paper Products Company, San Francisco, Calif. Toilet tissue paper. No. 154,837; May 9.
- National Paper Products Company, San Francisco, Calif. Toilet paper. No. 162,563; Dec. 19.
- National Paper Products Company, San Francisco, Calif. Paper towels. No. 162,972; Dec. 26.
- National Poultry Institute, Inc., The, Baltimore, Md., and Washington, D. C. Lesson books, and catalogues issued semiannually. No. 157,722; Aug. 15.
- National Products Co., Eau Claire, Wis. Certain toilet preparations. No. 150,492; Jan. 3.
- National Pyro-Zene Company, Atlanta, Ga. Certain named medicinal preparation. No. 161,243; Nov. 7.
- National Ring Traveler Co., Providence, R. I. Ring travelers. Nos. 156,019-20; June 13.
- National Ring Traveler Co., Providence, R. I. Ring and twister travelers. No. 162,564; Dec. 19.
- National Safety Council, Chicago, Ill. Pamphlets, circulars, and printed books. No. 150,493; Jan. 3.
- National Shoe Polish Mfg. Co., Philadelphia, Pa. Shoe polish. No. 155,772; June 6.
- National Specials Company. (See Baxter, Frank C.)
- National Stamping & Electric Works, Chicago, Ill. Certain electrical devices. No. 158,508; Sept. 5.
- National Starch Manufacturing Company, The, Covington, Ky.; New York, N. Y., and Cincinnati, Ohio, assignor to Corn Products Refining Company. Preparation of starch for laundry or food purposes. No. 20,943; renewed Apr. 5, 1922.
- National Starch Manufacturing Company, Covington, Ky., and New York and Buffalo, N. Y., assignor to Corn Products Refining Company. Preparation of cornstarch or corn flour. No. 21,751; renewed Sept. 13, 1922.
- National Store Specialty Co., Bareville, Pa. Gasoline and oil storage measuring pumps. No. 150,691; Jan. 3.

- National Store Specialty Company, Bareville, Pa. Computing scales. No. 158,356; Aug. 29.
- National Thrift System Company, The, Scranton, Pa. Depositors' pass books of its school bank and savings club. No. 160,600; Oct. 24.
- National Tool Company, The, Cleveland, Ohio. Milling cutters, reamers, hobs, etc. No. 155,024; May 16.
- National Tool Company, The, Cleveland, Ohio. Milling cutters, reamers, counterbores, etc. No. 158,039; Aug. 22.
- National Trading Company, Chicago, Ill. Hair nets. Nos. 150,911-12; Jan. 10.
- National Trading Company, Chicago, Ill. Hair nets. No. 153,499; Mar. 21.
- National Utilities Corporation, Milwaukee, Wis. Fresh-water systems. No. 162,843; Dec. 26.
- National Valve & Manufacturing Company, Pittsburgh, Pa. Valves, steam separators, and pipe fittings. No. 156,365; June 20.
- National Washboard Company, Chicago, Ill., and Saginaw, Mich. Washboards. No. 152,894; Mar. 7.
- National Washboard Company, Chicago, Ill.; Saginaw, Mich., and Memphis, Tenn. Washboards. Nos. 152,895-906; Mar. 7.
- National Washboard Company, Chicago, Ill., Saginaw, Mich., and Memphis, Tenn. Washboards. No. 155,266; May 23.
- Natural Life Face Beautifier Company, St. Louis, Mo. Skin lotion. No. 159,962; Oct. 10.
- Nature's Elixir Co. (See Elders, H. Will.)
- Naumann, Charles T., doing business as Broadway Perfume Company, New York, N. Y. Toilet water, scalp rub, hair tonic, etc. No. 161,570; Nov. 14.
- Navajo Laboratories, Inc., Caspar, Wyo. Radiator compound. No. 151,560; Feb. 7.
- Nay Shoe Company, Wheeling, W. Va. Leather shoes and slippers. No. 162,973; Dec. 26.
- Nazareth Waist Co., Nazareth, Pa. Waist union suits, union suits, undershirts, and drawers. No. 158,040; Aug. 22.
- Neal, Julia A., Oklahoma, Okla. Preparations for promoting the growth of the hair. No. 150,494; Jan. 3.
- Near East American Publishing Company, The, Washington, D. C. Weekly newspaper. No. 155,267; May 23.
- Nebraska Consolidated Mills Co., Grand Island, Nebr. Wheat flour. No. 159,456; Sept. 26.
- Nebraska Wall Paper Co., Omaha, Nebr. Dry, ready-mixed, and paste paints, putty, linseed oil, turpentine, etc. No. 162,844; Dec. 26.
- Nederlandsche Coöperatieve Zuivelverkoopcentrale, Amsterdam, Netherlands. Butter. No. 153,265; Mar. 14.
- Nedlin, Morris, Chicago, Ill. Bluing. No. 152,243; Feb. 21.
- Neeb, Arthur B., Minneapolis, Minn. Automatic liquid-spraying systems for purifying the air of buildings. No. 151,561; Feb. 7.
- Needham Products Company, The, Cleveland, Ohio. Laxative. No. 150,495; Jan. 3.
- Needham Products Co., The, Cleveland, Ohio. Spray to be used for the relief of hay fever. No. 152,100; Feb. 14.
- Neemo Hair Net Co., Inc., New York, N. Y. Hair nets. No. 156,366; June 20.
- Neidich, Jacob S., doing business as Neidich Storage Battery Co., Yonkers, N. Y. Storage batteries. No. 160,934; Oct. 31.
- Neidich Storage Battery Co. (See Neidich, Jacob S.)
- Nelscraft, Inc., New York, N. Y. Tailored waists. No. 160,249; Oct. 17.
- Nelson, C., Manufacturing Company, St. Louis, Mo. Ice-cream cabinets. No. 151,039; Jan. 10.
- Nelson, Mads, Canton, Ohio. Medicinal preparation for the treatment of rheumatism. No. 150,496; Jan. 3.
- Nelson, N. O., Manufacturing Company, St. Louis, Mo. Water-closet seats. No. 157,275; July 25.
- Nelson, P. W., Inc., Brooklyn, N. Y., and Chicago, Ill. Colors and prints in dry powder form. No. 155,025; May 16.
- Nelson's, Hugh, Columbia Carpet Mills, Philadelphia, Pa. Axminster rugs. No. 160,610; Oct. 24.
- Nemasket Mineral Spring Company, Middleboro, Mass. Nonalcoholic, maltless beverages and mineral-spring waters. No. 152,907; Mar. 7.
- Neofitos, Nick, Chicago, Ill. Cleaning fluid and dry cleaner for cleaning cloth and leather goods. No. 150,913; Jan. 10.
- Neptune, Meter Company, New York, N. Y. Relief valves. No. 157,549; Aug. 8.
- Ner-A-Car Corporation, Syracuse, N. Y. Motor cycle. No. 158,270; Aug. 29.
- Nestlé's Food Company, Inc., New York, N. Y. Ice cream. No. 157,724; Aug. 15.
- Nestlé's Food Company, Inc., New York, N. Y. No. 157,724; Aug. 15.
- Nettleton, A. B., Company, Syracuse, N. Y. Shoes made of leather. No. 159,206; Sept. 19.
- Nettleton Shops, Inc., Syracuse, N. Y. Shoes made of leather. No. 158,754; Sept. 12.
- Neubert, R. F., Co., Mankato, Minn. Brooders and incubators. No. 156,541; June 27.
- Neugebauer, Conrad, Columbus, Ohio. Bath mitten. No. 155,494; May 30.
- Neuhoff, Fred B., Company. (See Neuhoff, Fred B.)
- Neuhoff, Fred B., Los Angeles, Calif. Canned fruits and vegetables. No. 158,357; Aug. 29.
- Neuhoff, Fred B., trading as Fred B. Neuhoff Company, Los Angeles, Calif. Canned fruits and vegetables. Nos. 159,457-8; Sept. 26.
- Neuhoff, Fred B., trading as Fred B. Neuhoff Company, Los Angeles, Calif. Canned fruits and vegetables. No. 160,601; Oct. 24.
- Neuhoff, Fred B., Los Angeles, Calif. Canned fruits and vegetables. No. 162,442; Dec. 12.
- Neuss, Hesslein & Co., Inc., New York, N. Y. Woven cotton piece goods. No. 150,914; Jan. 10.
- Neuss, Hesslein & Co., Inc., New York, N. Y. Woven cotton piece goods. No. 153,266; Mar. 14.
- Neuss, Hesslein & Co., Inc., New York, N. Y. Woven cotton piece goods. No. 156,367; June 20.
- Neuss, Hesslein & Co., Inc., New York, N. Y. Woven cotton piece goods. No. 159,047; Sept. 19.
- Neuss, Hesslein & Co., Inc., New York, N. Y. Woven cotton piece goods. No. 161,244; Nov. 7.
- Neustadil, Victor, New York, N. Y. Malt extracts and sirups. No. 160,602; Oct. 24.
- Neuville, Adolph, St. Louis, Mo. Shirts, shirt waists, and waists. No. 155,344; May 23.
- Nevada State Journal Publishing Co., Reno, Nev. Daily (including Sunday) newspapers. No. 162,565; Dec. 19.
- Never-Fail Carburetor Co., Inc., New York, N. Y. Carburetors. No. 153,940; Mar. 28.
- Never-Stretch Mattress Company, Philadelphia, Pa. Mattresses. Nos. 160,345-6; Oct. 17.
- Nevin-Frank Company, Butte, Mont. Nonalcoholic, maltless, noncereal beverages. No. 150,915; Jan. 10.
- Nevin, W. C., Candy Co., The, Denver, Colo. Candies. No. 156,719; July 11.
- New Bedford Cotton Waste Co., New Bedford, Mass. Cotton waste. No. 154,107; Apr. 4.
- New Britain Tool and Manufacturing Company, The, New Britain, Conn. Certain metal-working tools. No. 152,468; Feb. 28.
- New Departure Manufacturing Company, The, Bristol, Conn. Brakes for cycles, cycle hubs, and coaster brakes. No. 160,603; Oct. 24.
- New Discovery Chemical Co. (See Barden, Edward E.)
- New England Biscuit Company, Worcester, Mass. Crackers. No. 152,908; Mar. 7.
- New England Brewing Company, Jersey City, N. J., and Boston, Mass. Concentrated material brewed from malt and hops for making malt beverages. No. 152,909; Mar. 7.
- New England Brewing Company, Jersey City, N. J., and Boston, Mass. Concentrate of malt, hops, and cereal products suitable for making malt beverage. Nos. 154,108-9; Apr. 4.
- New England Brewing Company, doing business as Haf-fenreffer & Co., Jersey City, N. J., and Boston, Mass. Concentrated material brewed from malt and hops, suitable for the making of a malt beverage. No. 157,551; Aug. 8.
- New England Confectionery Company. (See Chase & Company Corporation, assignor.)
- New England Confectionery Company. (See Chase & Company Corporation, assignors.) (Renewed.)
- New England Confectionery Company, Boston, Mass. Candy. Nos. 155,773-81; June 6.
- New England Confectionery Company, Boston, Mass. Candy. Nos. 156,021-30; June 13.
- New England Confectionery Company, Boston, Mass. Candy. Nos. 156,368-70; June 20.
- New England Confectionery Company, Boston, Mass. Candy. No. 159,048; Sept. 19.
- New England Confectionery Company, Boston, Mass. Candy. No. 161,571; Nov. 14.
- New England Glass Works, Providence, R. I. Imitation pearls. No. 156,720; July 11.
- New England Laboratory Co., Lynn, Mass. Certain named medicinal preparation. No. 159,963; Oct. 10.
- New England Spun Silk Corporation, Boston and Newton Upper Falls, Mass., and New York, N. Y. Spun silk yarns. Nos. 159,964-7; Oct. 10.
- New England Spun Silk Corporation, Boston and Newton Upper Falls, Mass., and New York, N. Y. Spun silk yarns. Nos. 160,250-5; Oct. 17.
- New England Stationery Company, Boston, Mass. Stationery. Nos. 156,371-2; June 20.
- New England Supplies Corporation, The, Boston, Mass. Hair nets. No. 158,755; Sept. 12.
- New England Tire & Rubber Company, Holyoke, Mass. Cord tires. No. 162,015; Nov. 28.
- New England Waste Company, Boston, Mass. Bales of graded textile wastes. No. 151,199; Jan. 24.
- New Era Optical Co., Chicago, Ill. Measuring and scientific appliances. Nos. 150,917-18; Jan. 10.
- New Era Toy Manufacturing Company. (See Kern, Charles J., assignor.)
- New & Frank Company, Chicago, Ill. Ticking. No. 161,572; Nov. 14.
- New Home Sewing Machine Company, The, Orange, Mass. Sewing machines and attachments. No. 159,459; Sept. 26.
- New, Ilham H., Detroit, Mich. Green, fresh, and canned vegetables. No. 151,886; Feb. 14.
- New Jersey Car Spring & Rubber Co. (See New Jersey Car Spring and Rubber Company, assignors.)

Alphabetical list of registrants of trade-marks—Continued.

- New Jersey Car Spring and Rubber Company, Jersey City, N. J., assignor to New Jersey Car Spring & Rubber Co. Hydraulic fire-hose and machine belting. No. 18,706; renewed Dec. 16, 1920.
- New Jersey Car Spring and Rubber Co., Jersey City, N. J., assignor to New Jersey Car Spring and Rubber Co. Inc. Hydraulic hose and machine belting. No. 18,744; renewed Dec. 30, 1920.
- New Jersey Car Spring and Rubber Co. Inc. (See New Jersey Car Spring and Rubber Co., assignor.)
- New Jersey Optical Co., Newark, N. J. Spectacle and eyeglass frames and mountings. No. 151,562; Feb. 7.
- New Jersey Paper Tube Company, Englewood, N. J. Soda straws. No. 152,618; Feb. 28.
- New Jersey Products Company, The. (See Blades, James L.)
- New Jersey Zinc Company, The. Newark and Franklin, N. J. Lithopone. No. 155,026; May 16.
- New Orleans Coffee Company Limited, New Orleans, La. Coffee. No. 160,604; Oct. 24.
- New Process Company, Warren, Pa. Rubber tires for motor vehicles. No. 160,797; Oct. 24.
- New Process Multi-Castings Company. (See Wood, John R., assignor.)
- New Southern Drug Company, Incorporated, Shreveport, La. Chemical preparation used as a disinfectant, germicide, deodorant, etc. No. 153,782; June 6.
- New Standard Rubber Co. Inc., Los Angeles, Calif. Retread strips for automobile tires. No. 156,489; June 20.
- New Trend Tire Company, The. Columbiana, Ohio. Automobile rubber tires. No. 159,968; Oct. 10.
- New York Belting & Packing Company. (See New York Belting and Packing Company (Limited), assignor.)
- New York Belting and Packing Company (Limited), New York, N. Y., assignor to New York Belting & Packing Company. Articles of vulcanized rubber, including mats and matting. No. 22,108; renewed Aug. 22, 1922.
- New York Canners, Inc., Rochester, N. Y. Canned fruits and vegetables, fruit jams, and preserves. Nos. 152,910-12; Mar. 7.
- New York Canners, Inc., Rochester, N. Y. Canned fruits and vegetables. No. 153,267; Mar. 14.
- New York Condensed Milk Company, assignor to The Borden Company, New York, N. Y. Milk, cream, butter, and cheese. No. 22,536; renewed Feb. 28, 1923.
- New York Consolidated Card Company, The. New York, N. Y. Playing cards. No. 21,093; renewed May 10, 1922.
- New York Consolidated Card Co., The, Long Island City, N. Y. Playing cards. No. 162,566; Dec. 19.
- New York Extract & Perfumery Co. (See Rinciari, John.)
- New York Lubricating Oil Company, New York, N. Y. Gas-engine cylinder oil. No. 158,756; Sept. 12.
- New York Mackintosh Clothing Company, New York, N. Y. Raincoats. No. 154,642; Apr. 18.
- New York Merchandise Company, New York, N. Y. Powder puffs. No. 151,200; Jan. 24.
- New York Merchandise Company, New York, N. Y. Hair nets. No. 152,913; Mar. 7.
- New York Merchandise Co., New York, N. Y. Hair nets. Nos. 156,373-5; June 20.
- New York Merchandise Company, New York, N. Y. Safety pins. Nos. 158,757-8; Sept. 12.
- New York Mineral Water Company, Cincinnati, Ohio. Certain soft drinks. No. 155,268; May 23.
- New York-New England Company, The, Holyoke, Mass. Writing and printing papers and ledger record, vellum, envelope, text book, coated, and covering papers. No. 160,605; Oct. 24.
- New York Quebracho Extract Company, New York, N. Y. Tanning extracts. Nos. 151,563-5; Feb. 7.
- New York Quebracho Extract Company, New York, N. Y. Tanning extracts. No. 155,497; May 30.
- New York Recording Laboratories, The, Port Washington, Wis. Phonographs and phonograph records, record albums, etc. No. 153,268; Mar. 14.
- New York Tribune Inc., New York, N. Y. Title of a newspaper column. Nos. 153,500-1; Mar. 21.
- New York Tribune Inc., New York, N. Y. Newspaper column. No. 159,049; Sept. 19.
- New York Tribune, Inc., New York, N. Y. Title of a newspaper column. No. 159,460; Sept. 26.
- Newark Knitting Works. (See Seiss, Otto.)
- Newark Paraffine and Parchment Paper Co., New York, N. Y. Wax paper. No. 155,027; May 16.
- Newark Tortoise Shell Novelty Co., Newark, N. J. Hand mirrors and picture frames. No. 150,497; Jan. 8.
- Newark Tortoise Shell Novelty Co., Newark, N. J. Hand mirrors and picture frames. No. 162,325; Dec. 12.
- Newark Tortoise Shell Novelty Co., Newark, N. J. Clothes, hair, tooth, shoe, nail, and hat brushes. No. 162,326; Dec. 12.
- Newberry & Nichols, New York, N. Y. Indicating thermometers. No. 150,916; Jan. 10.
- Newcomb, James P., & Co. Inc., New York, N. Y. Monthly publication. No. 159,461; Sept. 26.
- Newell Mfg. Co. Inc., The, Ogdensburg, N. Y. Curtain rods. No. 157,550; Aug. 8.
- Newey Bros. Ltd., Birmingham, England. Hairpins. No. 162,327; Dec. 12.
- Newfoundland Fish Products, Limited, London, England. Smoked cod fillets, preserved flaked fish, fish paste, etc. No. 162,328; Dec. 12.
- Newlyn, Thomas J., trading as Beautypool Cosmetic Co., El Paso, Tex. Cosmetic lotion. No. 156,897; July 18.
- Newmaker, Floyd H., Warren, Pa. Dressers, chifferettes, dressing-tables, beds, vanity-dressers, etc. No. 151,887; Feb. 14.
- Newman, I., & Sons, New Haven, Conn. Corsets. No. 154,641; Apr. 18.
- Newman, J. C., Cigar Company, Cleveland, Ohio. Cigars. No. 150,919; Jan. 10.
- Newton, Henry, Company, The, Spokane, Wash. Pile remedy. No. 154,110; Apr. 4.
- Newton Horse Remedy Co., The, Toledo, Ohio. Remedy for heaves, coughs, or distemper. No. 20,814; renewed Mar. 8, 1922.
- Ney, J. M., Company, Hartford, Conn. Gold alloys for dental purposes. No. 152,619; Feb. 28.
- Ney, J. M., Company, The, Hartford, Conn. Gold alloys for dental purposes. Nos. 154,342-56; Apr. 11.
- Ney, J. M., Co., The, Hartford, Conn. Gold alloys for dental purposes. Nos. 155,028-35; May 16.
- Nice, Eugene E., Philadelphia, Pa. Paints, varnishes, paint enamels, and driers. No. 159,050; Sept. 19.
- Nichols Candy Company, The, Indianapolis, Ind. Candy. No. 158,759; Sept. 12.
- Nichols, F. P., & Son, New York, N. Y. Liquid preparation for washing printers' rollers. No. 154,111; Apr. 4.
- Nichols, James B., Memphis, Tenn. Preparation for treatment of lung trouble. No. 161,245; Nov. 7.
- Nichols & Stone Company, Gardner, Mass. Household, office, and factory chairs. No. 159,051; Sept. 19.
- Nicholson, J. W., & Co., London, England. All spirituous and fermented liquors except brandy. No. 21,571; renewed Aug. 9, 1922.
- Nicholson (Newcastle-on-Tyne) Limited, Newcastle-on-Tyne, England. Polishing preparation for floors, furniture, and other woodwork. No. 158,760; Sept. 12.
- Nicholson's Raincoat Co. Limited, St. Albans, England. Raincoats and sports jackets. Nos. 155,783-4; June 6.
- Nickelsburg, Arthur, Limited, London, England. Vacuum flasks. No. 152,914; Mar. 7.
- Nickodemus, John H., Saginaw, Mich. Preparation for certain named purposes. No. 153,806; Mar. 28.
- Niederer, Christopher, Carlstadt, N. J. Toilet and baby powder. No. 153,807; Mar. 28.
- Niederkorn, Joseph S., Versailles, Ohio. Remedy for the prevention and relief of seasickness. No. 158,041; Aug. 22.
- Nieman, Eva, Cincinnati, Ohio. Illustrated mailing cards. No. 153,502; Mar. 21.
- Nieman, Louis, Philadelphia, Pa. Leathers. No. 162,845; Dec. 26.
- Nienhauser, Bernard A., St. Paul, Minn. Wrapping paper. No. 150,920; Jan. 10.
- Nierman, Robert G., Cleveland, Ohio. Vehicle wheels and parts thereof. No. 159,969; Oct. 10.
- Nieto Vicente & Bros., Tampa, Fla., and San Francisco, Calif. Cigars. No. 151,276; Jan. 24.
- Nifty Jar & Cooker Manufacturing Company, The, Cincinnati, Ohio. Food containers, more particularly glass jars. No. 160,256; Oct. 17.
- Nifty Jar & Cooker Manufacturing Company, The, Cincinnati, Ohio. Cooking vessels, more particularly cookers. No. 161,825; Nov. 21.
- Nigg, Diebold B., St. Louis, Mo. Nonalcoholic, noncereal, maltless beverage. No. 153,808; Mar. 28.
- Niles-Bement-Pond Company, New York, N. Y. Machine tools. No. 153,809; Mar. 28.
- Niles Manufacturing Company, Niles, Mich. Spark plugs. No. 155,785; June 6.
- Nippon Dry Goods Co. (See Koike, Jitsutaro.)
- Nissen, John J., Baking Company, Portland, Me. Bread, biscuits, cake, etc. No. 152,469; Feb. 28.
- Nissley Creamery Company, Fort Worth, Tex. Sweet milk, buttermilk, ice cream, cheese, etc. No. 150,500; Jan. 3.
- Nissley Creamery Company, Fort Worth, Tex. Dairy products. No. 159,462; Sept. 26.
- Nitch, Rudolf, doing business as Little Wonder Electric Heater Company, Cleveland, Ohio. Electric heaters for printing presses. No. 158,509; Sept. 5.
- Nitro-Bacter Soil Vaccine Corporation, Chicago, Ill. Liquid cultures of nitrifying bacteria. No. 161,573; Nov. 14.
- No Bristle Brush Co., The, Boston, Mass. Rubber tooth, hair, nail, hand, bath, and flesh brushes. No. 161,023; Oct. 31.
- Noco Petroleum Company, New York, N. Y. Benzine. No. 152,915; Mar. 7.
- Noco Petroleum Company, New York, N. Y. Crude oil or petroleum. No. 154,112; Apr. 4.
- Noco Petroleum Company, New York, N. Y. Kerosene, gasoline, naphthalene, benzine. No. 154,113; Apr. 4.
- Nodol Medicine Co., St. Louis, Mo. Certain medicinal preparation. No. 152,244; Feb. 21.
- Nodsle, Lena O., Fort Leavenworth, Kans. Shampoo. No. 152,245; Feb. 21.
- Noesting Pin Ticket Company, Incorporated, Mount Vernon, N. Y. Paper clamps and clips, thumb tacks, pin tickets, and ring clips. No. 160,606; Oct. 24.
- Nokomis Coal Company, Chicago, Ill. Coal. No. 159,970; Oct. 10.

- Noll-Welty Lumber Company, The, Kansas City, Mo. Shingles, roofing paper, building-paper and wallboard. No. 152,470; Feb. 28.
- Non-Breakable Button Corporation of America, Milwaukee, Wis. Nonbreakable buttons for clothing. No. 158,761; Sept. 12.
- Non-Spill Sanitary Dairy Pail Company, St. Louis, Mo. Metallic dairy pails. No. 151,040; Jan. 10.
- Noonan, T., & Sons Company, Boston, Mass. Hair tonic. No. 150,498; Jan. 3.
- Noonan, T., & Sons Company, Boston, Mass. Toilet preparations. No. 159,463; Sept. 26.
- Norddeutsche Wollkammerei & Kammgarnspinnerei, Bremen, Germany, assignor to The Chemical Foundation, Incorporated. Wool fat. No. 22,095; renewed Nov. 29, 1922.
- Nordman, Ferdinand B., jr., Number Nine Plantation, Volusia County, Fla. Fruit preserves, marmalades, jams, sirups for table use, etc. No. 162,846; Dec. 26.
- Norma Chocolate Company, Inc., Brooklyn, N. Y. Chocolate. No. 153,810; Mar. 28.
- Norman & Bennett, Inc., Boston, Mass. Shoes made from leather, rubber, etc. No. 162,016; Nov. 28.
- Norquist, Clyde L., Jamestown, N. Y. Furniture. No. 155,786; June 6.
- Norris Bros. Inc., Robinson, Ill. Balls and seats and drops for oil-well valves. No. 160,607; Oct. 24.
- Norristown Hosiery Mills, Norristown, Pa. Hosiery. No. 154,643; Apr. 18.
- North American Hygienic Company, Inc., The, San Juan, P. R. Dentifrice. No. 158,271; Aug. 29.
- North American Import Co., Chicago, Ill. Hair nets. No. 162,847; Dec. 26.
- North American Wood Products Corporation, New York, N. Y. Certain building material. Nos. 159,726-7; Oct. 3.
- North Atlantic Oyster Farms, Inc., South Norwalk, Conn. Oysters in their natural state and canned oysters. No. 161,970; Nov. 28.
- North Bros. & Co., Baltimore, Md. Men's and boys' dress and negligee shirts. No. 157,160; July 25.
- North East Electric Company, Rochester, N. Y. Electric signal horns for motor vehicles. No. 152,916; Mar. 7.
- North East Electric Company, Rochester, N. Y. Tachometers and odometers. No. 160,257; Oct. 17.
- North End Auto Supply Company, Inc., Troy, N. Y. Gasoline, lubricating, illuminating, and fuel oils. No. 151,349; Jan. 31.
- North Packing and Provision Company, Boston, Mass. Meat products, including packed and smoked beef and pork, hams, shoulders, sides, bacon, and sausage. No. 22,128; renewed Dec. 6, 1922.
- North Wayne Tool Company, Detroit, Mich., and Hallowell, Me. Grass cutters and scythes. No. 157,552; Aug. 8.
- Northam Warren Corporation, New York, N. Y. Cuticle remover. No. 154,357; Apr. 11.
- Northam Warren Corporation, New York, N. Y. Manicure sets and absorbent cotton. No. 160,323; Oct. 17.
- Northern California Fruit Co., Lodi, Calif. Fresh deciduous fruits. No. 156,898; July 18.
- Northern Flour Mills Company, Portland, Oreg. Rolled oats, wheat flakes, farina. No. 152,246; Feb. 21.
- Northern Jobbing Company, Chicago, Ill. Certain soaps and antiseptic cleansing powder. No. 157,725; Aug. 15.
- Northern Jobbing Company, Chicago, Ill. Lye. No. 161,246; Nov. 7.
- Northern Oil Company, Virginia, Minn. Gasoline. No. 155,495; May 30.
- Northway Motors Corporation, Natick, Mass. Automobiles and motor-trucks. No. 157,161; July 25.
- Northwest Fruit Products Co., Salem, Oreg. Nonalcoholic, maltless beverage of pure fruit juices. No. 156,899; July 18.
- Northwest Fruit Products Co., Salem, Oreg. Loganberry juice. No. 159,052; Sept. 19.
- Northwestern Bedding and Manufacturing Co., St. Paul, Minn. Bed springs. No. 151,888; Feb. 14.
- Northwestern Chemical Company, The, Wauwatosa, Wis. Certain chemicals. No. 155,498; May 30.
- Northwestern Consolidated Milling Company The, Minneapolis, Minn., and New York, N. Y. Wheat flour. No. 153,811; Mar. 28.
- Northwestern Expanded Metal Company, Chicago, Ill. Expanded metal lath. No. 154,114; Apr. 4.
- Northwestern Expanded Metal Company, Chicago, Ill. Expanded-metal laths. No. 156,542; June 27.
- Northwestern Hide & Fur Co., Minneapolis, Minn. Poison for animals. No. 156,490; June 20.
- Northwestern Oil Company, Superior, Wis., and Duluth, Minn. Liquid fuel oils. No. 155,036; May 16.
- Northwestern Petroleum Company, Appleton, Wis. Lubricating oil. No. 151,350; Jan. 31.
- Northwestern Yeast Company, Chicago, Ill. Yeast. No. 156,965; July 18.
- Northwestern Yeast Company, Chicago, Ill. Medicinal vitamin products. No. 160,258; Oct. 17.
- Norton Company, Worcester, Mass. Grinding machines and attachments. No. 152,471; Feb. 28.
- Norton Company, Inc., The, Jersey City, N. J. Candles. No. 151,351; Jan. 31.
- Norton Door Closer Co., Chicago, Ill. Elevator-door closers. No. 155,905; June 6.
- Norton, Frank J., Roseburg, Oreg. Canned fruits and vegetables and dried fruits. No. 162,974; Dec. 26.
- Nortridge, J., Henry, Freeport, Ill. Sanitary wire-gripped brushes, dustless mops, and dusters. No. 162,100; Dec. 5.
- Norwalk Tire and Rubber Company Inc., The, Norwalk, Conn. Elastic rubber tires. No. 160,608; Oct. 24.
- Norwich Pharmacal Company, The, Norwich, N. Y. Bathing liniment for external use only. No. 155,787; June 6.
- Norwich Pharmacal Company, The, Norwich, N. Y. Monthly publication. No. 157,726; Aug. 15.
- Nott-Atwater Company, Spokane, Wash. Steam-pipe coverings and insulations, roofing cements, and prepared roofings. No. 156,031; June 13.
- Nott-Atwater Co., Spokane, Wash. Lubricating oils. No. 159,464; Sept. 26.
- Nott-Atwater Company, Spokane, Wash. Rubber and fabric belting, hose, and tires, etc. No. 159,971; Oct. 10.
- Nott, W. S., Company, Minneapolis, Minn. Storage batteries. No. 155,788; June 6.
- Nourse Company, Inc., The, New York, N. Y. Books, booklets, pamphlets, catalogues, and similar publications. No. 159,053; Sept. 19.
- Nova Heel Manufacturing Co., Berkeley, Calif. Heels of rubber and leather in combination. No. 157,162; July 25.
- Novak, Gilbert J., Philadelphia, Pa. Preparation for certain named uses. No. 151,566; Feb. 7.
- Novak, John, Company, Chicago, Ill. Salve for certain purposes. No. 150,499; Jan. 3.
- Novak, John, Company, Chicago, Ill. Blood-tonic tablets. No. 154,115; Apr. 4.
- Novak, John, Company, Chicago, Ill. Salve for rheumatism, sprains, etc. No. 156,376; June 20.
- Novelty Braid & Trimming Co., New York, N. Y. Braid. No. 155,345; May 23.
- Novelty Products Company, The, Berkeley, Calif. Wooden clothespins. No. 152,917; Mar. 7.
- Novelty Shoe Company, Chicago, Ill. Shoes made of leather, rubber, fabric, and a combination of the same. No. 154,644; Apr. 18.
- Novelty Sport Hosiery Mills, Inc., New York, N. Y. Hosiery. No. 161,574; Nov. 14.
- Novelty Wood Works, New Orleans, La. Window and door screens, roller casters, wooden skewers, and candy sticks. No. 151,397; Jan. 31.
- Novia Candy Co., Inc., Brooklyn, N. Y. Chocolates and candies. No. 151,889; Feb. 14.
- Noxaboil Laboratories. (See Ruckel, John F.)
- Noxon Chemical Products Co., Newark, N. J. Cleaner polish for metal, glass, and porcelain. No. 153,269; Mar. 14.
- Noyes Bros. & Cutler, Incorporated, St. Paul, Minn. Cleaning preparation having water-softening properties. No. 151,890; Feb. 14.
- Noyes, E. S., Company, Weeks Mills, Me. Canned vegetables. No. 154,645; Apr. 18.
- Nu Bone Corset Company, The, Corry, Pa. Corsets. Nos. 160,259-60; Oct. 17.
- Nu-Do Process Company, The. (See Gould, George.)
- Nuforal Laboratories, Inc., New York, N. Y. Preparation to be used in the treatment of hog cholera. No. 157,567; Feb. 7.
- Nu-Iron Laboratory, Incorporated, The, Denver, Colo. General medicinal tonic. No. 156,377; June 20.
- Nu-Iron Laboratory Incorporated, The, Denver, Colo. General medicinal tonic. No. 158,042; Aug. 22.
- Nu-Life Company, Cuyahoga Falls, Ohio. General tonic for poultry, pigeons, and turkeys. No. 158,043; Aug. 22.
- Nulomoline Company, The, New York, N. Y. Candles, ice cream, cakes, crackers, and fondant. No. 162,975; Dec. 26.
- Nulty, James T., Philadelphia, Pa. Preparation for certain named purposes. No. 154,116; Apr. 4.
- Nu-Luster Products Co. Inc., New Orleans, La. Polishing paste for metal and wood surfaces. No. 162,646; Dec. 19.
- Nu-Ma Manufacturing Company. (See Mead, Charles A.)
- Nunnally Company, The, Atlanta, Ga. Candies. No. 154,801; May 9.
- Nunnally Company, The, Atlanta, Ga. Candies. No. 155,789; June 6.
- Nunnally Company, The, Atlanta, Ga. Candy. No. 156,900; July 18.
- Nunnally Company, The, Atlanta, Ga. Candy. No. 157,727; Aug. 15.
- Nunnally Company, The, Atlanta, Ga. Candy. No. 160,609; Oct. 24.
- Nunner and Ashton Company, The, Cincinnati, Ohio. Certain household and office furniture. No. 157,728; Aug. 15.
- Nunner and Ashton Company, The, Cincinnati, Ohio. Certain household and office furniture. No. 159,054; Sept. 19.
- Nupoint Mfg. Co., Chicago, Ill. Phonograph needles. No. 150,921; Jan. 10.
- Nuradium Company, Chicago, Ill. Restorative and constructive tonic remedy. No. 158,512; Sept. 5.
- Nusope Company, Fort Wayne, Ind. Soap flakes. No. 151,299; Jan. 24.
- Nut Specialty House, The, St. Paul, Minn. Almonds and other nuts salted in the shell. No. 152,472; Feb. 28.

Alphabetical list of registrants of trade-marks—Continued.

- Nutrine Mfg. Co., Chicago, Ill., Chocolate-coated marshmallow and caramel bar candy. No. 156,721; July 11.
- Nutrose Company, Inc., The Wilmington, Del., and Philadelphia, Pa. Yeastlike bread-making composition. No. 162,848; Dec. 26.
- Nutsbest Packing Company, Albany, Ga. Pecan products—namely, pecan butter. No. 154,646; Apr. 18.
- Nutt, Paul O., Des Moines, Iowa. Cathartic pills. No. 151,891; Feb. 14.
- Nutt, Paul O., Des Moines, Iowa. Gargle for sore throat. No. 157,367; Aug. 1.
- Nutter, Edgar, Portland, Me. Shoe and leather dressing. No. 157,729; Aug. 15.
- Nuttleman, Fred H., Westhoff, Tex. Cigars. No. 152,473; Feb. 28.
- Nuxtonic Company. (See Torance & Kleder.)
- Nyal Company, Detroit, Mich. Toilet preparation—viz. talcum powder. No. 159,972; Oct. 10.
- Nyanza Color & Chemical Co., Inc., New York, N. Y. Moth preventive and immunizer in solid form. No. 156,376; June 20.
- Oak Knitting Company, Syracuse, N. Y. Knitted underwear. No. 156,379; June 20.
- Oak Rubber Company, The, Ravenna, Ohio. Toy balloons. Nos. 155,037-8; May 16.
- Oakford & Fahnestock, Peoria, Ill. Canned vegetables and fruits. No. 21,340; renewed June 21, 1922.
- O'B-Special Trust, Beloit, Kans. Medicines of a general tonic and disease preventing nature. No. 161,247; Nov. 7.
- Oberbeck, Ernest, Chicago, Ill. Phonographs. No. 161,575; Nov. 14.
- Oberman, D., Mfg. Co., Jefferson City, Mo. Trousers. No. 157,163; July 25.
- Obrecht, G. Fred., trading as P. Fred'k Obrecht & Sons, Baltimore, Md. Temptor pure wheat flour and corn meal. No. 159,973; Oct. 10.
- Obrecht, P. Fred'k, & Son. (See Obrecht, G. Fred.)
- O'Brien, Robert J., Philadelphia, Pa. Furniture polish and cleaner. No. 161,374; Nov. 7.
- O'Brien Varnish Company, South Bend, Ind. Ready-mixed paints. No. 152,918; Mar. 7.
- O'Brien Varnish Company, South Bend, Ind. Automobile enamels. No. 152,919; Mar. 7.
- O'Brien Varnish Company, South Bend, Ind. Varnish. No. 153,812; Mar. 28.
- O'Bryan Brothers, Inc., Nashville, Tenn. Overalls. No. 157,553; Aug. 8.
- Ocean Shore Canning Co., The, Halfmoon Bay, Calif. Canned fruits and vegetables. No. 161,971; Nov. 28.
- O'Connor, Katharyn A., New York, N. Y. Hair tonic. No. 158,044; Aug. 22.
- Odiorne, Geo. B., Philadelphia, Pa. Solution for cleaning type. No. 159,207; Sept. 19.
- Odle Brothers, Detroit, Mich. Traveling-belt signs. No. 152,474; Feb. 28.
- Odorbase Manufacturing Company, New York, N. Y. Concentrated perfumes. No. 155,578; May 30.
- Odorono Company, The, Cincinnati, Ohio. Depilatories. No. 150,501; Jan. 3.
- Odorono Company, The, Cincinnati, Ohio. Depilatories. No. 158,272; Aug. 29.
- Odri Company, Los Angeles, Calif. Liquid preparation to reduce and deodorize perspiration. No. 152,247; Feb. 21.
- Oechsle Brothers, Philadelphia, Pa. Alumina solder, steel, electric welding rods, and acetylene iron welding rods. No. 161,898; Nov. 21.
- Oertel Co., The, Louisville, Ky. Beverage sold as a soft drink, commonly known as near beer. No. 161,972; Nov. 28.
- Oest Fruit Co., San Francisco, Calif. Jams, jellies, and orange marmalade. No. 159,632; Sept. 26.
- Oettinger Lumber Company, Greensboro, N. C. Dressed lumber, shingles, wall board, etc. No. 152,920; Mar. 7.
- Off'N'On Chain Corporation, New York, N. Y. Automobile tire chains. No. 157,554; Aug. 8.
- O'Flaherty, James, assignor to O'Flaherty's New York Suburban List, Inc., New York, N. Y. Paper matrices. Nos. 159,633-4; Sept. 26.
- O'Flaherty's New York Suburban List, Inc. (See O'Flaherty, James, assignor.)
- Ogburn-Griffin Grocery Co., Mobile, Ala. Cigars. No. 161,973; Nov. 28.
- Ogilvie, Jessica, New York, N. Y. Toilet preparation. No. 151,041; Jan. 10.
- Ogus, Rabinovitch and Ogus Co., Chicago, Ill. Ladies' misses', and children's hats. No. 155,790; June 6.
- Ogus, Rabinovitch and Ogus Co., Chicago, Ill. Hats for ladies, misses, and children. No. 158,045; Aug. 22.
- O'Halloran, Y. F., & Son, Tampa, Fla. Cigars. No. 152,475; Feb. 28.
- Ohio Chemical & Manufacturing Co., The, Cleveland, Ohio. Nitrous oxid, oxygen. No. 159,208; Sept. 19.
- Ohio Dairy Co., The, Toledo, Ohio. Butter substitute. No. 151,892; Feb. 14.
- Ohio Dairy Company, Connellsville, Pa. Oleomargarine. No. 153,503; Mar. 21.
- Ohio Electric & Controller Company, The, Cleveland, Ohio. Lifting magnets used for hoisting loads, electric motors. No. 162,647; Dec. 19.
- Ohio Grease Co., The, Loudonville, Ohio. Lubricating oils and greases. No. 154,117; Apr. 4.
- Ohio Grease Co., The, Loudonville, Ohio. Lubricating oils. No. 154,118; Apr. 4.
- Ohio Match Company, The, Wadsworth, Ohio. Matches. Nos. 155,579-80; May 30.
- Ohio & Pittsburgh Milk Company, Pittsburgh, Pa. Milk beverages. No. 154,647; Apr. 18.
- Ohio Rubber Co., The, Cleveland, Ohio. Felt slippers. Nos. 159,055-6; Sept. 19.
- Ohio Salt Company, The, Wadsworth, Ohio. Salt. No. 157,164; July 25.
- Ohio Valley Bottling Works, Cincinnati, Ohio. Nonalcoholic, noncereal, maltless beverages. No. 158,273; Aug. 29.
- Ohio Valley Drug Company, Wheeling, W. Va. Antiseptic and prophylactic solution. No. 151,893; Feb. 14.
- Ohio Valley Drug Company, Wheeling, W. Va. Elixir rhubarb alkaline with pancreatin. No. 151,894; Feb. 14.
- Ohio Valley Drug Company, Wheeling, W. Va. Sirup terebene compound. No. 153,813; Mar. 28.
- Ohio Valley Drug Company, Wheeling, W. Va. Skin lotion. No. 154,359; Apr. 11.
- Ohio Valley Refining Company, St. Marys, W. Va. Kerosene, gasoline, fuel oil, lubricating oil, and paraffine wax. No. 152,248; Feb. 21.
- Ohio Valley Refining Company, St. Marys, W. Va. Long-time-burning oil. No. 161,714; Nov. 14.
- Ohio Varnish Company, The, Cleveland, Ohio. Ready-mixed paints. No. 154,358; Apr. 11.
- Ohrt, Harold, Detroit, Mich. Hair tonic. No. 152,101; Feb. 14.
- Oil City Engine and Power Company, Oil City, Pa. Gas engines and certain other machinery. No. 151,568; Feb. 7.
- Oils and greases, Lubricating. N. I. Malmstrom. No. 151,343; Jan. 31.
- Oils and greases, Lubricating. Garcia Manzoni Gaza & Cia. No. 161,942; Nov. 28.
- Oiltrout Piston Ring Co. (See Fulton, Frederick F.)
- Oklahoma Auto Manufacturing Co., North Muskogee, Okla. Motor trucks and trailers. No. 150,502; Jan. 3.
- Oklahoma City Mill & Elevator Co., Oklahoma, Okla. Wheat flour. No. 158,763; Sept. 12.
- Oklahoma City Mill and Elev. Co., Oklahoma, Okla. Wheat flour. No. 159,465; Sept. 26.
- Oklahoma Mill Co., The, Kingfisher, Okla. Wheat flour. No. 152,921; Mar. 7.
- Oklahoma Producing and Refining Corporation of America, Tulsa, Okla. Lubricating oil. No. 155,039; May 16.
- Oklahoma Trading Corporation, New York, N. Y. Illuminating and lubricating oils and greases. No. 162,567; Dec. 19.
- Old Baldy Citrus Association, Upland, Calif. Fresh citrus fruits. No. 152,922; Mar. 7.
- "Old Bleach" Linen Company, Limited, The, Randalls-town, Ireland. Linen and hemp goods. No. 161,576; Nov. 14.
- Old Fashioned Millers, Inc., St. Paul, Minn. Bread. No. 152,102; Feb. 14.
- Old Fashioned Millers, Inc., St. Paul, Minn. Wheat flour. No. 153,611; Mar. 21.
- Old Mission Portland Cement Company, San Francisco and San Juan Bautista, Calif. Portland cement. No. 156,032; June 13.
- Old Ointment Products Co., Johnson City, N. Y. Ointment for boils, infections, etc. No. 162,169; Dec. 5.
- Old Reliable Motor Truck Corporation, Chicago, Ill. Automobile trucks. No. 156,543; June 27.
- Old Scotch Co., Augusta, Me. Ginger ale. No. 155,164; May 16.
- Oldham, Harry D., Urbana, Ill. Liniments or embrocations for certain uses. No. 151,569; Feb. 7.
- O'Leary, John J., Buffalo, N. Y. Cleaning composition. No. 157,827; Aug. 15.
- Oleicola Tarragona, S. A., Tarragona, Spain. Olive oil. No. 157,165; July 25.
- Oliver, Charles C., doing business as Oliver-Eaton Co., Montclair, N. J. Toilet preparations. No. 158,046; Aug. 22.
- Oliver-Eaton Co. (See Oliver, Charles C.)
- Oliver Knitting Company, Philadelphia, Pa. Bathing suits. No. 157,166; July 25.
- Oliver Knitting Company, Philadelphia, Pa. Hosiery. No. 157,167; July 25.
- Oliver-Sherwood Co., The, San Francisco, Calif. Journal bearings for rotating machinery. No. 150,936; Jan. 10.
- Oliver Sherwood Co., San Francisco, Calif. Comparatively hard and nonbreakable material suitable for making various articles. No. 160,261; Oct. 17.
- Ollendorff, I. Co., Inc., New York, N. Y. Watches, watchcases, watch movements, and clocks. No. 155,346; May 23.
- Ollendorff, Julian, Brooklyn, N. Y. Motion-picture films showing sketches, drawings, and photographs. No. 150,937; Jan. 10.
- Olney, Amsten, & Sons Ltd., London, England. Knitting pins. No. 162,329; Dec. 12.
- Olsen, Julius H. T., New York, N. Y. Shoe polish. No. 159,466; Sept. 26.
- Olsen, Mourad J., Des Moines, Iowa. Liquid tonic. No. 21,553; renewed Aug. 2, 1922.
- Olson Rug Company, Chicago, Ill. Woven rugs and carpets. No. 150,938; Jan. 10.
- Omaha Alfalfa Milling Company, Omaha, Nebr. Poultry feed. No. 152,923; Mar. 7.

- Omaha Alfalfa Milling Co., Omaha, Nebr. Horse and cattle feed. No. 153,504; Mar. 21.
- Omaha Flour Mills Co., Omaha, Nebr. Wheat flour. No. 157,730; Aug. 15.
- Omaha Tanning Co., Omaha, Nebr. Leather. No. 159,974; Oct. 10.
- Omar Co., The, Chicago, Ill. Nonintoxicating, nonalcoholic, noncereal, maltless beverage and sirups for making same. No. 154,119; Apr. 4.
- Omnia Import Corporation, New York, N. Y. Moving-picture film. No. 150,939; Jan. 10.
- Omnigraph Company, Des Moines, Iowa. Printing machines and parts of same, paper-cutting machines, etc. No. 156,722; July 11.
- 1 In 5 Manufacturing Co., Detroit, Mich. Liquid preparation for energizing gasoline. No. 158,990; Sept. 19.
- O'Neal, Daniel B., Ocoee, Tenn. External medicines for the treatment of cancer. No. 150,503; Jan. 3.
- Oneida Community, Limited, Oneida, N. Y. Table flatware, plated with nickel. No. 150,940; Jan. 10.
- One-piece Bifocal Lens Company, Indianapolis, Ind. Ophthalmic lenses. No. 155,269; May 23.
- One-piece Bifocal Lens Company, Indianapolis, Ind. Bifocal lens. No. 160,347; Oct. 17.
- Onita Specialty Co., Brooklyn, N. Y. Bath robes, sacks, buntings, etc., for infants. No. 154,648; Apr. 18.
- Onita Specialty Co., Brooklyn, N. Y. Bath robes, sacks, buntings, flannelettes. No. 156,033; June 13.
- Onnen, Adolph C., Baltimore, Md. General tonic. No. 153,814; Mar. 28.
- Opera Disc Company, Incorporated, New York, N. Y. Phonograph records. No. 150,941; Jan. 10.
- Operaphone Co., Inc., New York, N. Y. Phonograph instruments and records. No. 158,274; Aug. 29.
- Oppenheim, Oberndorf & Co., Baltimore, Md. Children's bloomers. No. 151,201; Jan. 24.
- Oppenheim, Oberndorf & Co., Inc., Baltimore, Md. Union suits. No. 154,205; Apr. 4.
- Oppenheimer, A. E., & Brother, Philadelphia, Pa. Hair nets. No. 155,499; May 30.
- Oppenheimer, M. H., & Co., New York, N. Y. Cotton piece goods. No. 162,568; Dec. 19.
- Orange Crush Company, Chicago, Ill. Beverages, concentrates, and compounds for making same. No. 162,330; Dec. 12.
- Orange-Smash Co., Birmingham, Ala. Nonalcoholic, maltless, carbonated beverages and sirups for manufacture of same. No. 156,141; June 13.
- Orange-Smash Co., Birmingham, Ala. Nonalcoholic, maltless, carbonated beverage sold as soft drink and sirup for same. No. 157,276; July 25.
- Orange Smile Sirup Company, St. Louis, Mo. Nonalcoholic maltless beverage. No. 152,933; Mar. 7.
- Orbea Hermanos, Eibar, Spain. Firearms. No. 158,980; Sept. 19.
- Or-Blos-Co., Jacksonville, Fla. Talcum and face powder, perfume, toilet water. No. 150,504; Jan. 3.
- Oregon Brass Works, Portland, Ore. Journal bearings. No. 156,034; June 13.
- Oregon City Mfg. Co., Oregon City, Ore. Woolen blankets. No. 156,544; June 27.
- Oregon City Woolen Mills, Oregon City, Ore. Overcoats, mackinaws, flannel shirts, loggers' shirts, etc. No. 162,447; Dec. 12.
- Oregon Dairymen's Cooperative League, The, Portland, Ore. Food and ingredients for foods, and specifically cheese. No. 159,975; Oct. 10.
- Oregon Growers Cooperative Assn., Salem, Ore. Dried and fresh fruits and berries. No. 150,505; Jan. 3.
- Oregon Growers Cooperative Assn., Salem, Ore. Fresh and dried deciduous fruits. No. 151,895; Feb. 14.
- Oregon Growers Cooperative Assn., Salem, Ore. Canned fruits, berries, and vegetables, jams, catsup, etc. Nos. 152,924-5; Mar. 7.
- Oregon Growers Cooperative Assn., Salem, Ore. Fresh, dried, and canned fruits, vegetables, berries, and other named foods. No. 153,270; Mar. 14.
- Orenstein Trunk Company, Newark, N. J. Trunks. No. 159,467; Sept. 26.
- Organ-Iron Company, Omaha, Nebr. Medicine for colds, gripe, influenza, etc. No. 152,249; Feb. 21.
- Organ-Iron Company, Omaha, Nebr. Certain medicinal preparation. No. 155,500; May 30.
- Oriental Products Importing Co., Syracuse, N. Y. Olive oil. No. 151,896; Feb. 14.
- Oriental Silk Printing Company, Haledon, N. J., and New York, N. Y. Silk and silk and cotton piece goods and cotton goods in the piece. No. 155,165; May 16.
- Oriental Silk Printing Company, Haledon, N. J., and New York, N. Y. Silk, cotton and silk, and cotton goods in the piece. No. 161,577; Nov. 14.
- Oriental Silk Printing Company, Haledon, N. J., and New York, N. Y. Silk, silk and cotton, and cotton goods in the piece. No. 161,715; Nov. 14.
- Orinoka Mills, The, New York, N. Y. Upholstery goods, draperies, and furniture coverings. No. 162,849; Dec. 26.
- Orlisle Belt Dressing Co. (See Ryan, Frank.)
- Orlik, Alfred, New York, N. Y. Pipes. Nos. 162,850-1; Dec. 26.
- Orlik, Alfred, New York, N. Y. Pipes. Nos. 162,976-8; Dec. 26.
- O'Rourke, Eubanks Hat Co., San Francisco, Calif. Men's hats. No. 153,047; Aug. 22.
- O'Rourke, Frank J., Whitestone, N. Y. Certain toilet and medicinal preparations. No. 160,935; Oct. 31.
- Orr Cotton Mills, Anderson, S. C. Piece goods—namely, sheetings and drills. No. 152,476; Feb. 28.
- Orr, Frank, doing business as Orr Ointment, Tulsa, Okla. Ointment for the treatment of sweaty and fetid feet and arms. No. 160,262; Oct. 17.
- Orr, James, & Sons, Limited, Manchester, England. Cotton voile cloths. No. 157,731; Aug. 15.
- Orr Machine Guarding Co., The, Trenton, N. J. Metallic guards for machinery. No. 153,271; Mar. 14.
- Orris, Adam, Mechanicsburg, Pa. Rubber compound in the nature of removable coating for tires. No. 154,120; Apr. 4.
- Orro Ointment. (See Orr, Frank.)
- Osann, Frederick, Company, New York, N. Y. Machines for sewing on buttons, snap fasteners, etc. No. 151,398; Jan. 31.
- Osborn-Crew Manufacturing Company, The, Cleveland, Ohio. Toy drawing instrument. No. 161,974; Nov. 28.
- Osborn Mills, Fall River, Mass. Cotton pillow tubing. No. 159,729; Oct. 3.
- Osborn Paper Company, Marion, Ind. Writing tablets, composition books, student notebooks, etc. No. 159,468; Sept. 26.
- Osborne, Claude F., Hampton, Iowa. Medicinal compound for the feet. No. 159,976; Oct. 10.
- O'Shea Knitting Mills, Chicago, Ill. Bathing suits and playsuits. No. 156,035; June 13.
- O'Shea Knitting Mills, Chicago, Ill. Sweaters, bathing suits, sport, work, and negligee shirts, pants, etc. No. 157,555; Aug. 8.
- Oshkosh Trunk Company, The, Oshkosh, Wis. Wardrobe trunks. No. 159,209; Sept. 19.
- Osman, Leo S., Washington, D. C. Medicinal and pharmaceutical preparations. No. 153,815; Mar. 28.
- Osram, G. m. b. H., Kommanditgesellschaft, Berlin, Germany. Electric incandescent lamps and their parts. No. 151,524; Feb. 7.
- Osram G. m. b. H. Kommanditgesellschaft, Berlin, Germany. Electric gas-filled lamps. No. 156,723; July 11.
- Osram G. m. b. H. Kommanditgesellschaft, Berlin, Germany. Electric incandescent lamps and their parts. No. 156,724; July 11.
- Ostberg, Ivan, doing business as Ostberg Seed Co., Chicago, Ill. Grass seed. No. 160,263; Oct. 17.
- Ostberg Seed Co. (See Ostberg, Ivan.)
- Osten, Otto, Chicago, Ill. Bleaching materials. No. 158,048; Aug. 22.
- Osterweil Bros., Inc., Newark, N. J. Trunks. No. 150,506; Jan. 3.
- Ostra Corporation, The, New York, N. Y. Mechanical pencils. No. 162,569; Dec. 19.
- Oswego River Paper Mills, Phoenix, N. Y. Toilet paper. No. 151,202; Jan. 24.
- Ottawa Cushion Co., Ottawa, Ill. Porch swing and chair cushions and pads, piano bench pads, boat and canoe cushions, etc. No. 158,161; Aug. 22.
- Ottawa Cushion Co., Ottawa, Ill. Certain cushions, pads, and mats. No. 162,570; Dec. 19.
- Ottawa Fire Proofing Company, Ottawa, Ill. Building tile. No. 159,728; Oct. 3.
- Otten, L. F., Manufacturing Company, The. (See X-L Belt Buckle Co., assignor.)
- Ottenheimer, Goldman Co. Inc., The, Baltimore, Md. Certain articles of clothing. No. 156,901; July 18.
- Otter River Foundry Company, The, Templeton, Mass. Coal, wood, oil, and gas kitchen ranges. No. 151,300; Jan. 24.
- Otterson Auto-Eductor Co., The, Springfield, Ohio. Vehicular apparatus having means adapted to be lowered into sewer catch basins. No. 161,578; Nov. 14.
- Ouellett, Alexis, Nashua, N. H. Furniture and automobile polish. No. 152,926; Mar. 7.
- Ovalyn Laboratories Incorporated, Milwaukee, Wis. Certain, named medicinal preparation. No. 154,360; Apr. 11.
- Overbrook Piano Company, Philadelphia, Pa. Pianos and player pianos. No. 152,927; Mar. 7.
- Overhauser, Joseph H., Portland, Ore. Candy. No. 160,936; Oct. 31.
- Overseas Motor Service Corporation, New York, N. Y. Accessory and repair devices and parts for automobiles, trucks, etc. No. 154,121; Apr. 4.
- Overseas Motor Service Corporation, New York, N. Y. Tires and shoes, patches, plugs, and treads for tires, and tire covers. No. 159,977; Oct. 10.
- Oversize Piston Company, Elkhart, Ind. Engine pistons. No. 153,818; Mar. 28.
- Overton, Anthony, Chicago, Ill. Preparation for corns, bunions, and callouses. No. 153,347; May 23.
- Overton, Anthony, Chicago, Ill. Semisolid dressing for leather. No. 155,791; June 6.
- Ovington Bros. Company, New York, N. Y. Fans for personal use. No. 155,792; June 6.
- Ovington Bros. Company, New York, N. Y. Jewelry. No. 156,826; July 11.
- Ovington Bros. Company, New York, N. Y. Table knives, forks, and spoons, of base metal, scissors, etc. No. 157,168; July 25.

Alphabetical list of registrants of trade-marks—Continued.

- Ovington Bros. Company, New York, N. Y. Chinaware, earthenware, porcelain. No. 157,169; July 25.
- Ovington Bros. Company, New York, N. Y. Certain household furniture. No. 157,732; Aug. 15.
- Ovington Bros. Company, New York, N. Y. Cleaning and polishing materials for jewelry, metal ware, and precious-metal ware. No. 157,733; Aug. 15.
- Ovington Bros. Company, New York, N. Y. Table glassware, glass bowls, jars, boxes, trays, and vases. No. 159,731; Oct. 3.
- Ovington Bros. Company, New York, N. Y. Nonelectric oil lamps, candlesticks, and candelabra. No. 160,611; Oct. 24.
- Ovington Bros. Company, New York, N. Y. Imitation art bronzes and imitation bronzes. No. 160,612; Oct. 24.
- Owen, Charles A., Meadville, Pa. Malted milk and malted milk chocolate. No. 150,507; Jan. 3.
- Owen, Seth, Mansfield, Wash. Preparation for treatment of colic and impaction in horses. No. 150,508; Jan. 3.
- Owens, Thomas, Angola, Ind. Dressed poultry, eggs, and butter. No. 155,166; May 16.
- Owl Drug Company, The, San Francisco, Calif. Medicated or denatured alcohol. No. 150,509; Jan. 3.
- Owl Drug Company, The, San Francisco, Calif. Certain medicinal and pharmaceutical preparations. No. 156,380; June 20.
- Owl Drug Company, The, San Francisco, Calif. Cleaning fluid for shoes and leather goods. No. 159,057; Sept. 19.
- Owl Drug Company, The, San Francisco, Calif. Alkaline antiseptic solution for use in oral and nasal passages. No. 161,249; Nov. 7.
- Owl Drug Company, The, San Francisco, Calif. Antiseptic astringent vaginal suppositories. No. 161,250; Nov. 7.
- Owl Specialty Co., The, Paterson, N. J. Dress and skirt belting and binding. No. 150,510; Jan. 3.
- Oxford Confectionery Company, Oxford, Pa. Candy. No. 154,649; Apr. 18.
- Oxford Filing Supply Co., Brooklyn, N. Y. Filing cards. No. 155,040; May 16.
- Oxford-Print, Boston, Mass. Certain named toys. No. 155,041; May 16.
- Oxley, Alfred V., Southington, Conn. Shoe dressing. No. 152,928; Mar. 7.
- Oxyzn Company, New York, N. Y. Certain toilet preparations. No. 160,937; Oct. 31.
- Oxyzn Company, New York, N. Y. Hard-water color hair tints. Nos. 153,816-7; Mar. 28.
- Oyler, Chas. C., & Son, Cincinnati, Ohio. Citrus fruits. No. 156,725; July 11.
- P-Zo-Zo Company, Inc., Boston, Mass. Soluble laundry blue mounted in a stirrer. No. 156,381; June 20.
- P. H. & F. M. Roots Co., The, Connersville, Ind. Rotary blowers, gas, water, and vacuum pumps. No. 153,840; Mar. 28.
- P. & M. Company, The, Chicago, Ill. Rail anchors of anti-creeper, rail-anchor shoes, rail-anchor springs or yokes. No. 151,044; Jan. 10.
- P. & M. Company, The, Chicago, Ill. Rail-anchor wrenches. No. 160,109; Oct. 10.
- P. & M. Co., The, Chicago, Ill. Iron and steel castings and forgings, rail anticreepers, etc. No. 161,826; Nov. 21.
- Pabst Brewing Company, Milwaukee, Wis. Near beer or malt cereal beverages. No. 162,331; Dec. 12.
- Pabst Corporation, Milwaukee, Wis. Malt extract used by bakers for food purposes. No. 156,902; July 18.
- Pace Phonograph Corporation, New York, N. Y. Phonographs, phonograph records, player rolls. No. 155,502; May 30.
- Pace Phonograph Corporation, New York, N. Y. Phonographs, phonograph records, player and manual pianos, organs, and player rolls. No. 156,726; July 11.
- Pacific By-Products Co., San Jose, Calif. Charcoal. No. 159,987; Oct. 10.
- Pacific Chemical Company, Los Angeles, Calif. Ammonia washing compound. No. 153,272; Mar. 24.
- Pacific Chemical Company, Los Angeles, Calif. Hand soap. No. 162,333; Dec. 12.
- Pacific Clay Products Co., Los Angeles, Calif. Glazed stoneware. No. 161,251; Nov. 7.
- Pacific Coast Biscuit Co., Seattle, Wash. Cookies and crackers of all kinds. No. 152,929; Mar. 7.
- Pacific Coast Biscuit Co., Seattle, Wash. Candies. No. 155,042; May 16.
- Pacific Coast Biscuit Company, Seattle, Wash. Salted wafers, soda crackers, etc. No. 159,469; Sept. 26.
- Pacific Coast Biscuit Co., Seattle, Wash. Crackers. No. 161,899; Nov. 21.
- Pacific Exploitation Co., Seattle, Wash. Knitted under-clothing for men. No. 160,798; Oct. 24.
- Pacific Knitting Mills, Los Angeles, Calif. Men's, women's, and children's bathing suits and sweater coats. No. 158,162; Aug. 22.
- Pacific Knitting Mills, Inc., Los Angeles, Calif. Sweater or knit-goods coat and bathing suits. No. 161,579; Nov. 14.
- Pacific Malt & Hops Co., Inc., Brooklyn, N. Y. Malt extract. No. 155,043; May 16.
- Pacific Metal Bearing Company, San Francisco, Calif. Journal bearings. No. 150,922; Jan. 10.
- Pacific Mills, Boston, Mass. Cotton piece goods. No. 153,941; Mar. 28.
- Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. No. 153,581; May 30.
- Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. Nos. 156,382-3; June 20.
- Pacific Mills, Boston, Mass. Cotton piece goods. No. 156,903; July 18.
- Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. No. 157,428; Aug. 1.
- Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. No. 157,734; Aug. 15.
- Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. Nos. 158,049-50; Aug. 22.
- Pacific Novelty Company, New York, N. Y. Hairpins, combs, barrettes, and hair ornaments. No. 157,828; Aug. 15.
- Pacific Nut Butter Company, Salt Lake City, Utah. Oleomargarine. No. 159,980; Oct. 10.
- Pacific Porcelain Ware Co., San Francisco, Calif. Closet combinations consisting of a tank with operation and connecting fittings and toilet bowl with connection spud to tank. No. 161,716; Nov. 14.
- Pacific States Electric Co., San Francisco, Calif. Electrical apparatus and fixtures. No. 162,334; Dec. 12.
- Pacific Trading Co. Inc., San Francisco, Calif. Rice. No. 159,979; Oct. 10.
- Pacific Zone Coal & Fertilizer Co., San Francisco, Calif. Fertilizer. No. 162,332; Dec. 12.
- Package Confectionery Company, Boston, Mass. Candy. No. 152,930; Mar. 7.
- Package Confectionery Company, Boston, Mass. Candy. No. 156,904; July 18.
- Package Confectionery Company, Boston, Mass. Candy. No. 162,335; Dec. 12.
- Package Paper & Supply Corporation, Springfield, Mass. Waxed and transparent papers. No. 152,477; Feb. 28.
- Package Paper & Supply Corporation, Springfield, Mass. Waxed and transparent papers. No. 152,931; Mar. 7.
- Package Paper & Supply Corporation, Springfield, Mass. Waxed and transparent papers. No. 153,505; Mar. 21.
- Packard Engineering Co., The, Cleveland, Ohio. Shock absorbers and radiator shutters. No. 160,613; Oct. 24.
- Packard Engineering Co., The, Cleveland, Ohio. Automobile steering-wheel lock. No. 162,101; Dec. 5.
- Packard Piano Company, The, Fort Wayne, Ind. Upright, grand, player, and reproducing pianos. No. 155,270; May 23.
- Packer, John H., Liberty, Mo. Filters. No. 154,122; Apr. 4.
- Packer Manufacturing Company Inc., The, New York, N. Y. Soap. No. 162,571; Dec. 19.
- Paquin, Inc., Parfumeurs, New York, N. Y. Perfumes, face powders, and creams. No. 154,361; Apr. 11.
- Padua "Hold-Up" Alarm Corporation, Albany, N. Y. Hold-up alarms. No. 156,600; July 4.
- Page Belting Company, Concord, N. H. Leather belting, belt, lace picker, hame string, and leggins leather, picker straps, hame strings and cut lacings. No. 20,833; renewed Feb. 10, 1922.
- Page Belting Company, Concord, N. H. Certain rubber and leather goods. No. 21,924; renewed Nov. 1, 1922.
- Page, D. L., Inc., The, Boston, Mass. Candy. No. 160,614; Oct. 24.
- Page, Lee, Birmingham, Ala. Malt extract; No. 152,766; Mar. 7.
- Page-Lewis Arms Company, Chicopee Falls, Mass. Rifles. No. 159,730; Oct. 3.
- Page & Shaw, Inc., Boston and Cambridge, Mass. Candy. No. 159,470; Sept. 26.
- Page & Shaw, Inc., Boston and Cambridge, Mass. Candy. No. 160,110; Oct. 10.
- Page, Wilson K., Olean, N. Y. Trolley guards. No. 156,727; July 11.
- Pagoda Import Company Inc., New York, N. Y., and Brooklyn, N. Y. Hair nets. No. 155,167; May 16.
- Pagoda Import Company, Inc., New York and Brooklyn, N. Y. Hair nets. No. 162,853; Dec. 26.
- Paige Hat Co. Inc., New York, N. Y. Ladies' hats. No. 157,829; Aug. 15.
- Paine, Charles L., Indianapolis, Ind. Vending machines provided with means for keeping contents hot. No. 150,923; Jan. 10.
- Paine, Charles W., Philadelphia, Pa. Nondrying paint of paste consistency. No. 158,764; Sept. 12.
- Paine Lumber Company, Limited, Oshkosh, Wis. Wooden doors. No. 155,793; June 6.
- Paine & Nixon Co., Duluth, Minn. Dry ready-mixed, and paste paints, paints, oils, varnishes, etc. No. 154,123; Apr. 4.
- Painless Parker Dentist, San Francisco, Calif. Mouth washes, pyorrhea preparations, tooth paste. No. 159,981; Oct. 10.
- Palisade Coal & Supply Co., The, Palisade, Colo. Coal. No. 162,648; Dec. 19.
- Pallarés Hermanos, Cabra, Spain. Olive oil. No. 152,819; Mar. 7.
- Palleyesch, Barney L., doing business as Pals Chemical Company, Brooklyn, N. Y. Liquid preparation for treating and relieving pain to the gums. No. 158,051; Aug. 22.
- Palmer Candy Co., Sioux City, Iowa. Candy. No. 154,650; Apr. 18.
- Palmer Candy Co., Sioux City, Iowa. Candy. No. 156,905; July 18.

- Palmer Candy Co., Sioux City, Iowa. Candy. No. 160,615; Oct. 24.
- Palmer, Charles E., doing business as Floramol Chemical Co., Baltimore, Md. Antiseptic healing ointment. No. 160,938; Oct. 31.
- Palmer Match Company, The. (See Palmer, Tom A., assignor.)
- Palmer Photoplay Corporation, Los Angeles, Calif. Books, pamphlets, and circulars devoted to photoplay information, etc. No. 157,735; Aug. 15.
- Palmer Photoplay Corporation, Los Angeles, Calif. Monthly magazine devoted to the interests of photoplay authors. No. 157,736; Aug. 15.
- Palmer, Richard, New York, N. Y. Hot-water bottles. No. 152,932; Mar. 7.
- Palmer, Richard, New York, N. Y. Preparation for the treatment of piles. No. 155,906; June 6.
- Palmer, Solon, New York, N. Y. Hair dye. No. 151,591; Feb. 7.
- Palmer, Tom A., assignor to The Palmer Match Company, Akron, Ohio. Friction matches. No. 161,252; Nov. 7.
- Palmer, W. R., & Co. (See Palmer, Walter C.)
- Palmer, Walter C., doing business as W. R. Palmer & Co., Cincinnati, Ohio. Washboards. No. 158,275; Aug. 29.
- Palmer, Walter C., doing business as W. R. Palmer & Co., Cincinnati, Ohio. Mops. No. 158,358; Aug. 29.
- Palmer, Walter C., doing business as W. R. Palmer & Co., Cincinnati, Ohio. Mops. Nos. 160,616-18; Oct. 24.
- Palmer, William J., Los Angeles, Calif. Combined check and account books. No. 159,471; Sept. 26.
- Palmer, William T. & Company, Inc., New York, N. Y. Elastic. No. 157,737; Aug. 15.
- Palmer, William T. & Company, Inc., New York, N. Y. Hair nets. No. 161,580; Nov. 14.
- Palmers, Limited, doing business as Minty, Montreal, Quebec, Canada. Certain toilet chemical and medicinal preparations. No. 160,264; Oct. 17.
- Palmolive Company, Milwaukee, Wis. Soap. No. 162,854; Dec. 26.
- Palomba, Frederick W., Waterbury, Conn. Pencils. No. 159,473; Sept. 26.
- Pals Chemical Company. (See Palleyesch, Barney L.)
- Paluszek Brothers, Inc., New York, N. Y. Monthly magazine. No. 153,506; Mar. 21.
- Panama Lubricants Company, Los Angeles, Calif. Mineral greases. No. 151,203; Jan. 24.
- Panama Lubricants Company, Los Angeles, Calif. Steel barrels used as containers for lubricating oils. No. 162,448; Dec. 12.
- Pan-American Cigar Manufacturing Co., Dover, Del., and Washington, D. C. Cigars. No. 153,819; Mar. 28.
- Pan American Pharm. Co. Inc., New York, N. Y. Hair remover in powdered form. No. 157,368; Aug. 1.
- Panarello, J. A., Co. (See Panarello, James A.)
- Panarello, James A., doing business as J. A. Panarello Co., New York, N. Y. Golf hose. No. 161,253; Nov. 7.
- Pan Confection Company, Chicago, Ill., assignor to National Candy Company. Confections and candies. No. 20,957; renewed Apr. 12, 1922.
- Pangburn Company Inc., Fort Worth, Tex. Candies and ice cream. No. 157,170; July 25.
- Panicucci, Vergilio, Christopher, Ill. Medicine for eyes. No. 150,511; Jan. 3.
- Panitz, Isador, Baltimore, Md. Undershirts, drawers, union suits, waists, negligee shirts, pyjamas, and night robes. No. 156,906; July 18.
- Pannett & Neden, London, England. Pomatum dressing for the hair. No. 158,276; Aug. 29.
- Panrex Manufacturing Co., Chicago, Ill. Shoe polishes, cleaners, and leather dressings. No. 151,897; Feb. 14.
- Pantasote Leather Company, The, Passaic, N. J. Waterproof cloth in the piece. No. 151,898; Feb. 14.
- Panther Rubber Manufacturing Company, Stoughton, Mass. Toy rubber balls. No. 152,934; Mar. 7.
- Panther Rubber Manufacturing Company, Stoughton, Mass. Rubber heels. Nos. 162,103-4; Dec. 5.
- Panther Rubber Manufacturing Company, Stoughton, Mass. Rubber soles and taps. No. 162,105; Dec. 5.
- Panther Rubber Manufacturing Company, Stoughton, Mass. Rubber heels. No. 162,106; Dec. 5.
- Pantoskey, Jacob, San Francisco, Calif. Iron and steel pipe fittings. No. 150,924; Jan. 10.
- Papazian, Alexander, New York, N. Y. Soaps. No. 157,738; Aug. 15.
- Pappanicolaou, George, Washington, D. C., and New York, N. Y. Cigarettes. No. 157,556; Aug. 8.
- Paradise Appliance Company. (See Loveland, Arthur S.)
- Parafine Companies, Inc., The, San Francisco, Calif. Waterproof and weatherproof roofings. No. 160,636; Oct. 24.
- Paramount Amusement Device Corp., New York, N. Y. Amusement device of a mechanical pneumatic type. No. 160,619; Oct. 24.
- Paramount Knitting Company, Chicago, Ill. Hosiery. Nos. 154,651-2; Apr. 18.
- Paramount Knitting Company, Chicago, Ill. Hosiery. Nos. 155,168-73; May 16.
- Paramount Knitting Company, Chicago, Ill. Hosiery. No. 158,513; Sept. 5.
- Paramount Knitting Company, The, Chicago, Ill. Textile articles—namely, hosiery. No. 158,765; Sept. 12.
- Parent Sanitary Towel Cabinet Co. Inc., New York, N. Y. Towel cabinets. No. 162,979; Dec. 26.
- Parfumerie Roger & Gallet, Paris, France. Soaps, soap pastes, and soap powders. No. 159,058; Sept. 19.
- Parfumerie Roger & Gallet, Paris, France. Pastes and powders for the teeth, skin, and hair, and perfumery. No. 161,581; Nov. 14.
- Parfums Fontanis. (See Jaquet, Daniel.)
- Paris Manufacturing Company, The, Cleveland, Ohio. Window shades. No. 151,899; Feb. 14.
- Paris Manufacturing Company, The, Cleveland, Ohio. Powders, pastes, and liquids for cleaning window shades, etc. No. 155,503; May 30.
- Paris, Raphael N., York, Pa. Cigars and little cigars. No. 158,766; Sept. 12.
- Parisienne Flapper Parasol Company, Mount Vernon, Ind. Novelty parasols. No. 160,265; Oct. 17.
- Paristyle Novelty Co. Inc., New York, N. Y. Hair nets. No. 150,925; Jan. 10.
- Paristyle Novelty Co. Inc., New York, N. Y. Hair nets. No. 157,739; Aug. 15.
- Paristyle Novelty Co. Inc., New York, N. Y. Hair nets. No. 159,059; Sept. 19.
- Paristyle Novelty Co. Inc., New York, N. Y. Hair nets. No. 161,582; Nov. 14.
- Park Laboratory Company, San Antonio, Tex. Salve for use in treatment of colds, coughs, influenza, burns, etc. No. 158,053; Aug. 22.
- Parke, Davis & Company, Detroit, Mich. Tonic nutritive and alterative. No. 160,512; Jan. 3.
- Parke, Davis & Company, Detroit, Mich. Certain chemical, medicinal, and pharmaceutical preparations. No. 156,884; June 20.
- Parke, Davis & Company, Detroit, Mich. Germicides and antiseptics. No. 157,369; Aug. 1.
- Parke, Davis & Company, Detroit, Mich. Germicides and antiseptics. No. 158,277; Aug. 29.
- Parke, Davis & Company, Detroit, Mich. Buttermilk tablets for making artificial buttermilk. No. 158,514; Sept. 5.
- Parke, Davis & Company, Detroit, Mich. Counterirritants. No. 160,939; Oct. 31.
- Parke, Davis & Company, Detroit, Mich. Medicine for venereal diseases and catarrh of the mucous membrane. No. 161,254; Nov. 7.
- Parke, L. H., & Company. (See Parke, L. H., & Co., assignor.)
- Parke, L. H., & Co., Philadelphia, Pa., assignor to L. H. Parke Company. Blended tea. No. 21,431; renewed July 12, 1922.
- Parke, L. H., & Co., Philadelphia, Pa., assignor to L. H. Parke Company. Tea. No. 21,432; renewed July 12, 1922.
- Parker, Alice L., New York, N. Y. Hair tonic. No. 156,385; June 20.
- Parker-Belmont & Co., Chicago, Ill. Toilet preparations. No. 160,107; Oct. 10.
- Parker, Mrs. Beulah, Chicago, Ill. Hair growers. No. 150,513; Jan. 3.
- Parker Brothers, Salem, Mass. Card games. No. 157,557; Aug. 8.
- Parker, Franklin T., Columbia, S. C. Reenforced press cloth for use in oil-seed presses. No. 155,504; May 30.
- Parker, Nella, Oakland, Calif. Preparation for the removal of superfluous hair from the human face and body. No. 151,570; Feb. 7.
- Parker Pen Co., The, Janesville, Wis. Fountain pens. No. 155,044; May 16.
- Parker Pen Co., The, Janesville, Wis. Fountain pens. No. 162,572; Dec. 19.
- Parker, S. I., Howe, Ind. Laundry tablets. No. 155,174; May 16.
- Parks, A. L., Tea Company, Boston, Mass. Coffee. No. 153,612; Mar. 21.
- Parks, A. L., Tea Company, Boston, Mass. Coffee, tea, and cocoa. No. 154,802; May 9.
- Parks, A. L., Tea Company, Boston, Mass. Coffee. No. 154,838; May 9.
- Parks, John G., Goldsboro, N. C. Antibilious pills. No. 155,794; June 6.
- Parkway Bottling Co. Inc., Philadelphia, Pa. Non-alcoholic, maltless beverage sold as a soft drink. No. 157,558; Aug. 8.
- Parr Electric Co. Inc., New York, N. Y. Friction tape and splicing compound. No. 158,359; Aug. 29.
- Parrish, Harry A., doing business as The Pyramid Products Co., Berkeley, Calif. Scalp tonic. No. 158,054; Aug. 22.
- Parrish, James B., Denver, Colo. Liniment. No. 152,250; Feb. 21.
- Parsons & Baker Co., The, Phoenixville, Pa. Ladies' underwear. No. 160,266; Oct. 17.
- Parsons, Benjamin J., Redditch, England. Needles, also toilet pins. No. 151,900; Feb. 14.
- Parsons, J. H., Chemical Company, Chicago, Ill. Boiler compounds. No. 151,571; Feb. 7.
- Parsons Paper Company, Holyoke, Mass. Printing and writing paper. No. 154,839; May 9.
- Parsons Paper Company, Holyoke, Mass. Printing and writing paper. No. 155,045; May 16.
- Parts Service Company, The, Cleveland, Ohio. Automotive parts. No. 156,728; July 11.
- Parts Service Company, The, Cleveland, Ohio. Automotive parts. No. 159,472; Sept. 26.

Alphabetical list of registrants of trade-marks—Continued.

- Pascal, Francisque, Paris, France. Muffler to be inserted in the ear to suppress annoying sounds. No. 154,362; Apr. 11.
- Pasier, Michael A., Chicago, Ill. Beet catsup. No. 154,653; Apr. 18.
- Pasquier, Michel, New York, N. Y. Certain toilet preparations. No. 157,277; July 25.
- Pass, Wendell, Export, Pa. Combination awl tools for shoemakers and leather workers. No. 157,278; July 25.
- Passaic Herald Company, Passaic, N. J. Daily newspaper. No. 162,336; Dec. 12.
- Passaic Print Works, Passaic, N. J. Cotton piece goods. No. 157,559; Aug. 8.
- Passaic Print Works, Passaic, N. J. Cotton piece goods. Nos. 157,740-1; Aug. 15.
- Passaic Print Works, Passaic, N. J. Cotton piece goods. Nos. 159,210; Sept. 19.
- Passaic Print Works, Passaic, N. J. Cotton piece goods. No. 159,635; Sept. 26.
- Passaic Print Works, Passaic, N. J. Cotton piece goods. No. 159,732; Oct. 3.
- Passavant & Co., New York, N. Y. Satin and velvet ribbons. No. 21,711; renewed Aug. 30, 1922.
- Passy, Mary M., Port Hope, Ontario, Canada. Reaching device for hanging pipes and curtain poles and taking down same. No. 152,478; Feb. 28.
- Patch, E. L., Company, The, Stoneham, Mass. Preparation for treatment of kidney, liver, and bladder trouble. No. 153,820; Mar. 28.
- Patch, E. L., Co., The, Stoneham, Mass. Sodium-bicarbonate tablets. No. 156,886; June 20.
- Patchett, Samuel C., Washington, D. C. Toy banks. No. 153,507; Mar. 21.
- Patchett, Samuel C., Washington, D. C. Paper weights. No. 155,046; May 16.
- Patent Cereals Company, The, Geneva, N. Y. Breakfast cereals, hominy grits, pancake flour, etc. No. 152,935; Mar. 7.
- Pater, Alphonse J., Hamilton, Ohio. Preparation for the treatment of asthma. No. 151,901; Feb. 14.
- Paterson Knitting Mills, Inc., Paterson and Ramsey, N. J. Full-fashioned and seamless silk hosiery. No. 158,767; Sept. 12.
- Pathé-Cinema, Anciens Etablissements Pathé Frères, Paris, France. Certain cinematographic and photographic apparatus and parts. Nos. 162,573-4; Dec. 19.
- Paton, Calvert & Co., Limited, Liverpool, England. Certain boxes, etc. No. 152,936; Mar. 7.
- Paton, Calvert, & Co., Limited, Liverpool, England. Certain polishes and polishing cloths. No. 162,575; Dec. 19.
- Patrick-Young, F. E., Co., Richmond, Va. Lard substitute. No. 154,803; May 9.
- Patrick-Young Co., Richmond, Va. Hams, bacon, and lard. No. 156,729; July 11.
- Patsy Frok & Romper Company, Los Angeles, Calif. Child's frock. No. 152,103; Feb. 14.
- Patten, Ernest L., Salt Lake City, Utah. Hair restorers. No. 160,940; Oct. 31.
- Patten Manufacturing Company, Chattanooga, Tenn. Ready-mixed paints and varnishes. No. 154,363; Apr. 11.
- Patten Manufacturing Company, Chattanooga, Tenn. Air pumps. No. 158,278; Aug. 29.
- Patten Manufacturing Company, Chattanooga, Tenn. Spark plugs. No. 158,515; Sept. 5.
- Patterson and Hoffman, Oklahoma, Okla. Cigars. No. 158,516; Sept. 5.
- Patterson Mineral Water & Beverage Co., Chicago, Ill. Nonalcoholic, maltless beverages and sirups for making same. No. 151,204; Jan. 24.
- Pattison & Co., Ltd., New Orleans, La. Wheat flour. No. 153,508; Mar. 21.
- Patton, Daniel T., and Company, Grand Rapids, Mich. Handkerchiefs. No. 153,273; Mar. 14.
- Patton, Daniel T., and Company, Grand Rapids, Mich. Dress shirts. No. 159,060; Sept. 19.
- Patton, Daniel T., and Company, Grand Rapids, Mich. Work shirts. No. 159,061; Sept. 19.
- Patuxent Guano Company, Baltimore, Md. Fertilizers. No. 154,124; Apr. 4.
- Pauline Mills, Inc., Kings Mountain, N. C. Mercerized cotton damask in the piece. Nos. 158,360-1; Aug. 29.
- Paulson, Marcus, Brooklyn and New York, N. Y. Ladies' silk and muslin underwear. No. 150,514; Jan. 3.
- Paxton & Gallagher Co. (See Paxton & Gallagher, assignors.)
- Paxton & Gallagher Co., Omaha, Nebr. Coffee and tea. No. 154,635; Apr. 18.
- Paxton & Gallagher Co., Omaha, Nebr. Canned vegetables and fruits. No. 160,621; Oct. 24.
- Paxton & Gallagher, Omaha, Nebr., assignor to Paxton & Gallagher Co. Tea. Nos. 21,267-8; renewed June 7, 1922.
- Paxton & Gallagher, Omaha, Nebr., assignor to Paxton & Gallagher Co. Tea. No. 21,847; renewed Oct. 4, 1922.
- Paxton & Gallagher, Omaha, Nebr., assignor to Paxton & Gallagher Co. Tea. No. 21,941; renewed Nov. 8, 1922.
- Payson & Payson, Short Hills, N. J., assignors to Compo Thrift Bond Corporation, New York, N. Y. Printed bonds. No. 153,509; Mar. 21.
- Peabody, Henry W., & Co., New York, N. Y. Gum shellac. No. 151,205; Jan. 24.
- Peabody, Mary J., Boston, Mass., assignor to The Warner Brothers Company, Bridgeport, Conn. Combined brassière and girdle. No. 153,274; Mar. 14.
- Peabody School Furniture Co., The, North Manchester, Ind. Certain chairs. No. 151,902; Feb. 14.
- Peabody School Furniture Co., The, North Manchester, Ind. Desks and folding and school chairs. No. 151,903; Feb. 14.
- Pearl Cotton Mills, Durham, N. C. Sheetings. No. 155,505; May 30.
- Pearson, Fred, & Company, Philadelphia, Pa. Plush goods in the piece. No. 156,908; July 18.
- Pearson, James S. (See Rogers, S. C., and Pearson.) (Renewed.)
- Pearson Piano Company, Indianapolis, Ind. Varnish healer and restorer. No. 161,583; Nov. 14.
- Pease & Dwyer Co., Memphis, Tenn. Feed. No. 153,510; Mar. 21.
- Pease & Dwyer Co., Memphis, Tenn. Ox feed composed of unbolted corn meal, wheat bran, cottonseed meal, etc. No. 159,982; Oct. 10.
- Pease & Dwyer Co., Memphis, Tenn. Field and garden seeds. No. 160,632; Oct. 24.
- Pease, P. L., & Company, Inc., Lancaster, N. Y. Articles of stationery adapted to hold writing paper and also having writing surfaces. No. 156,387; June 20.
- Peavey, F. H., & Co., Minneapolis, Minn., assignor to F. H. Peavey & Company. Wheat, corn, barley, and rye. No. 21,191; renewed May 24, 1922.
- Peavey, F. H., & Company. (See Peavey, F. H., & Co., assignors.) (Renewed.)
- Peck, E. A., Manufacturing Company, Minneapolis, Minn. Toothbrushes. No. 154,125; Apr. 4.
- Peck, E. E., Co. Inc., Medina, N. Y. Soft-metal rivets. No. 152,620; Feb. 28.
- Peck, J., & Co. (See Black, Carl A.)
- Peck & Pratt, Inc., Hilton, N. Y. Canned fruits, vegetables, berries, and evaporated milk. No. 162,449; Dec. 12.
- Pectin Sales Co. Inc., Rochester, N. Y. Concentrated fruit pectin. No. 152,479; Feb. 28.
- Pectin Sales Co., Inc., Rochester, N. Y. Concentrated fruit pectin. No. 152,937; Mar. 7.
- Pedersen, Arthur Z., Orange, N. J., assignor to Miller Reese Hutchinson, Inc., New York, N. Y. Certain chemical solutions. No. 150,515; Jan. 3.
- Peep-In Company, Oakland, Calif. Display and storage cabinets. No. 162,337; Dec. 12.
- Peerless Biscuit Co., Pittsburgh, Pa. Cakes and crackers. No. 161,024; Oct. 31.
- Peerless Carton & Ribbon Mfg. Co. Inc., New York, N. Y. Stamp pads. No. 151,572; Feb. 7.
- Peerless Light Company, Chicago, Ill. Electric-lighting sets for Christmas trees. No. 158,517; Sept. 5.
- Peerless Paper Company, Dayton, Ohio. Bond paper. No. 151,206; Jan. 24.
- Peerless Paper Company, Dayton, Ohio. Writing and printing paper. No. 151,207; Jan. 24.
- Peet Bros. Manufacturing Company, Kansas City, Kans. Soap. No. 152,938; Mar. 7.
- "Peggy Ware" Children's Dress Co. Inc., New York, N. Y. Children's dresses. No. 154,657; Apr. 18.
- Peirce, Chambers L., Chicago, Ill. Confections. No. 162,107; Dec. 5.
- Peirce, George E., doing business as Thomas F. Peirce & Son, Providence, R. I. Shoes. No. 158,768; Sept. 12.
- Peirce, Louis W., Cleveland, Ohio. Merchants' trade-discount stamps. No. 150,926; Jan. 10.
- Peirce, Ralph S., Hinsdale, Ill. Expansion bolts. No. 152,483; Feb. 28.
- Peirce, Thomas F., & Son. (See Peirce, George E.)
- Peldo Works. (See Barker, C. R., Stagg, and Morgan.)
- Pels, Frank F., Company of New York, Inc., New York, N. Y. Cotton yarn, artificial silk yarn, twist floss, etc. No. 152,104; Feb. 14.
- Pelzer Manufacturing Company, Pelzer, S. C. Sheetings. No. 158,055; Aug. 22.
- Pelzer Manufacturing Company, Pelzer, S. C. Cotton piece goods. Nos. 158,769-70; Sept. 12.
- Pembroke, Sarah, Los Angeles, Calif. Liquid medicine for the treatment of rheumatism, piles, nervousness, etc. No. 155,795; June 6.
- Penberthy Injector Company, Detroit, Mich. Flow meters, water and oil gauges. No. 152,939; Mar. 7.
- Penberthy Injector Company, Detroit, Mich. Centrifugal and hydraulic pumps, carburetors, etc. No. 155,506; May 30.
- Pendleton Woolen Mills, Pendleton, Ore. Indian blankets, wool in piece for making bath robes, blankets, and shawls, etc. No. 156,730; July 11.
- Penetro Chemical Company, Atlantic City, N. J., and Philadelphia, Pa. Mouth wash. No. 151,573; Feb. 7.
- Penick & Ford Ltd. Inc., New Orleans, La. Corn-gluten feed and corn-oil-cake meal. No. 152,105; Feb. 14.
- Peninsula Products Company, Wilmington, Del. Ginger ale. No. 157,370; Aug. 1.
- Penn Drug Spec. Co., Pittsburgh, Pa. Powder puffs. No. 161,975; Nov. 28.
- Penn Drug Specialty Co., Pittsburgh, Pa. Handkerchiefs. No. 152,940; Mar. 7.

Alphabetical list of registrants of trade-marks—Continued.

- Penn Leather Preserving Co., Pittsburgh, Pa. Compound for preserving and waterproofing shoes and leather. No. 157,742; Aug. 15.
- Penn Oiler Company, The, New York, N. Y. Oil cans. No. 154,206; Apr. 4.
- Penn Petroleum and Supply Company, Wilmington, Del., and Philadelphia, Pa. Lubricating oils. No. 151,208; Jan. 24.
- Penn Rivet Corporation, Philadelphia, Pa. Hair nets. Nos. 150,927-8; Jan. 10.
- Penn Rivet Corporation, Philadelphia, Pa. Hair nets. No. 152,941; Mar. 7.
- Penn Rivet Corporation, Philadelphia, Pa. Rivets. No. 161,584; Nov. 14.
- Penn Shoe & Overgaiter Co., Philadelphia, Pa. Spats and overgaiters. No. 150,516; Jan. 3.
- Penna, Poultry Farm Remedies Co., The, Lancaster, Pa. Poultry tonics and regulators. No. 154,126; Apr. 4.
- Penney, J. C., Company, Salt Lake City, Utah, and New York, N. Y. Cotton piece goods. No. 156,388; June 20.
- Penney, J. C., Company, Salt Lake City, Utah, and New York, N. Y. Men's and boys' work shirts and boys' blouses and play suits. No. 156,909; July 18.
- Penney, J. C., Company, Salt Lake City, Utah, and New York, N. Y. Men's and boys' work shirts, boys' blouses and play suits. No. 158,771; Sept. 12.
- Penney, J. C., Company, Salt Lake City, Utah, and New York, N. Y. Men's and boys' ready-to-wear clothing. Nos. 161,255-7; Nov. 7.
- Penney, J. C., Company, Salt Lake City, Utah, and New York, N. Y. Bleached cotton muslin. No. 161,585; Nov. 14.
- Penney, J. C., Company, Salt Lake City, Utah, and New York, N. Y. Corsets, women's underwear and night-gowns. No. 161,586; Nov. 14.
- Pennsylvania Knitting Mills, The, Philadelphia, Pa. Sweaters. No. 158,056; Aug. 22.
- Pennsylvania Lawn Mower Works. (See Braun, John, & Sons, assignors.)
- Pennsylvania Lubricating Company, Pittsburgh, Pa. Lubricating oils and greases. No. 162,576; Dec. 19.
- Pennsylvania Range Boiler Co., Philadelphia, Pa. Range boilers. No. 162,855; Dec. 26.
- Pennsylvania Synthetic Gas & Chemical Company, Philadelphia, Pa. Fuel for internal-combustion engines. No. 159,636; Sept. 26.
- Penny, Thomas M., New York, N. Y. Medicinal tablets for the treatment of colds. No. 150,517; Jan. 3.
- Pensak, Michael, New York, N. Y. Hosiery. No. 161,258; Nov. 7.
- Penslar Company, The, Detroit, Mich. Dentifrices. No. 152,251; Feb. 21.
- People's Drug Stores, Inc., Washington, D. C. Cigars. No. 155,507; May 30.
- "Pep" Laboratory, Chicago, Ill. Nonalcoholic beverage and powder for making same. No. 152,480; Feb. 28.
- Peper, Christian, Tobacco Co., St. Louis, Mo. Smoking and chewing tobacco. No. 152,722; Mar. 7.
- Peper, Christian, Tobacco Co., St. Louis, Mo. Smoking and chewing tobacco. No. 155,214; May 23.
- Peppard, J. G., Seed Co., Kansas City, Mo. Seeds—namely, grass, field, alfalfa, etc. No. 156,389; June 20.
- Pepsodent Company, The, Chicago, Ill. Dentifrices. No. 157,371; Aug. 1.
- Pepsol Company. (See Blackman, John J.)
- Pep-Step Corp., Cedar Rapids, Iowa. Foot pads. No. 151,209; Jan. 24.
- Perceval, C. (See Perceval, Charles, assignor.)
- Perceval, Charles, New York, N. Y., assignor to C. Perceval. Pork meats and lard. No. 22,743; renewed Apr. 4, 1923.
- Perfect, A. H., & Co., Fort Wayne and Huntington, Ind., and Sturgis, Mich. Wheat flour, rolled oats, coffee, tea, etc. No. 162,856; Dec. 26.
- Perfect Garment Co., Baltimore, Md. Middy blouses. No. 160,267; Oct. 17.
- Perfect Pocket Pipe Company. (See de Pars, W. M.)
- Perfection Cooler Co., Stoughton, Mass. Coolers and freezers. No. 159,637; Sept. 26.
- Perfection Laboratories, Chicago, Ill. Toilet preparations. No. 157,372; Aug. 1.
- Perfection Mattress & Spring Co., The, Birmingham, Ala. Mattresses. No. 158,163; Aug. 22.
- Perfection Mattress & Spring Co., The, Birmingham, Ala. Bed springs. No. 158,164; Aug. 22.
- Perfection Mattress & Spring Co., The, Birmingham, Ala. Mattresses. No. 158,165; Aug. 22.
- Perfection Piston Ring Company, The, Ravenna, Ohio. Piston rings. No. 157,171; July 25.
- Perfection Products Co., New York, N. Y. Malt sirup for food purposes. No. 152,942; Mar. 7.
- Perfection Timing Gear Company, Chicago, Ill. Timing gears for automobiles. No. 157,625; Aug. 8.
- Perfecto Chemical Co., Inc., New York, N. Y. Hair dye. No. 156,390; June 20.
- Perfek-tone Corporation, The, Philadelphia, Pa. Talking machines and supplies. No. 155,271; May 23.
- Perfek-tone Corporation, The, Philadelphia, Pa. Talking machines and parts. No. 158,279; Aug. 29.
- Perfumeria Floralla, S. A., Madrid, Spain. Medicinal soap. No. 151,042; Jan. 10.
- Perfumerie Houbigant, Paris, France, assignor to Houbigant, Inc., New York, N. Y. Perfumes, toilet waters, sachet, and sachet powders. No. 158,052; Aug. 22.
- Perkins, A. E., Corporation, The, Dallas, Tex. Cleaner for white canvas shoes. No. 152,943; Mar. 7.
- Perkins, A. E., Corporation, The, Dallas, Tex. Color restorer and polish for leather shoes. No. 152,944; Mar. 7.
- Perkins, B. F., & Son, Inc., Holyoke, Mass. Electric motor-driven fans. No. 153,275; Mar. 14.
- Perkins, B. F., & Son, Inc., Holyoke, Mass. Paper and textile testing machines. No. 160,108; Oct. 10.
- Perkins-Campbell Company, The, Cincinnati, Ohio. Equestrian equipments, notably saddles, bridles, bits, etc. No. 160,268; Oct. 17.
- Perkins, Thomas C., Atlanta, Ga. Household brushes. No. 161,976; Nov. 28.
- Perks, George W., Akron, Ohio. Game boards. No. 151,352; Jan. 31.
- Permanent Manufacturing Co., Oakland, Calif. Needles or styli for sound-reproducing instruments. No. 155,047; May 16.
- Permanent Wave Machine & Supply Corporation, The, New York, N. Y. Electrical hair-waving appliances. No. 153,276; Mar. 14.
- Perlmann, Schäl & Stern, New York, N. Y. Lace and embroidery articles. Nos. 156,391-2; June 20.
- Perlmann, Schäl & Stern, New York, N. Y. Doilies. No. 161,827; Nov. 21.
- Perlmann, Schäl & Stern, New York, N. Y. Doilies. No. 162,857; Dec. 26.
- Permatex Company Inc., Brooklyn and Sheepshead Bay, N. Y. Compound for sealing unions and joints in engines. No. 161,375; Nov. 7.
- "Perolin" Fabrikationsgesellschaft, m. b. H., Vienna, Austria. Spray diffusers for fluids and disinfectants. No. 152,945; Mar. 7.
- "Perolin" Fabrikationsgesellschaft m. b. H., Vienna, Austria. Spray diffusers for fluids. No. 159,983; Oct. 10.
- Perpetual Air Bag Co., Chicago, Ill. Inflatable air bags. No. 154,127; Apr. 4.
- Perrin, Arthur, Brookline, Mass. Binocular telescopic instruments. No. 158,280; Aug. 29.
- Perrin, Arthur, Brookline, Mass. Binocular optical instruments. No. 158,281; Aug. 29.
- Perry, C. T., & Company, Helena, Mont. Laundry soap. No. 151,904; Feb. 14.
- Perry and Company, Limited, Birmingham, England. Driving chains for cycles. No. 159,733; Oct. 3.
- Perry, J. C., & Company, Indianapolis, Ind. Canned fruits, vegetables, and fish, vinegar. No. 157,172; July 25.
- Perry Knitting Company, The, New York, N. Y. Children's knit underwear. No. 158,057; Aug. 22.
- Peruna Company, The, Columbus, Ohio. Certain medicinal preparation. Nos. 156,966-7; July 18.
- Pesicchil, James, Denver, Colo. Prophylactic preparations. No. 155,348; May 23.
- Petcoff, George, Toledo, Ohio. Malt extract for beverage purposes. No. 162,980; Dec. 26.
- Peter Cailler Kohler Swiss Chocolates Co., Inc., New York, N. Y. Milk chocolate and cocoa. No. 152,481; Feb. 28.
- Peter Cailler Kohler Swiss Chocolates Co., Inc., New York, N. Y. Chocolate coating and cocoa. No. 153,613; Mar. 21.
- Peter Paul Candy Mfg. Co., Inc., New Haven, Conn. Candy. No. 162,338; Dec. 12.
- Peters Cartridge Company, The, Cincinnati, Ohio. Metallic cartridges. No. 153,277; Mar. 14.
- Peters & Herron Co., The, Columbus, Ohio. Knitted fabrics in the piece and textile lap and carriage robes and blankets. No. 150,945; Jan. 10.
- Peters Shoe Company, St. Louis, Mo., assignor to International Shoe Company of Wilmington. Boots and shoes. No. 20,737; renewed Feb. 16, 1922.
- Petersen, J. S., Los Angeles, Calif. Compound in the form of a powder for the treatment of dropsy. No. 150,518; Jan. 3.
- Petersen's, J. H. C., Sons Company, Davenport, Iowa. Sheeting, tubing, muslins, blankets, sheets, pillow cases. No. 161,259; Nov. 7.
- Peterson, George G., East Providence, R. I. Ice-cream cabinets. No. 160,622; Oct. 24.
- Peterson and Goodman, Chicago, Ill. Handle extensions. No. 155,048; May 16.
- Peterson, John, Hoboken, N. J. Trunks. No. 150,519; Jan. 3.
- Peterson, John O., Tacoma, Wash. Writing paper. No. 162,577; Dec. 19.
- Peterson, Otto, Fort Bragg, Calif. Hair tonics. No. 154,128; Apr. 4.
- Petkus, Alfred G., Manchester, N. H. Medical preparation for treating the feet against sweat secretions. No. 155,796; June 6.
- Petosky Portland Cement Co., Dover, Del. Portland cement. No. 152,482; Feb. 28.
- Petric, Arthur, Oklahoma, Okla. Preparation for treatment of leucorrhoea and cleansing of the entire vagina. No. 155,797; June 6.
- Petroleum Products Company, San Francisco, Calif. Gasoline, kerosene, distillate, lubricating oils and greases. No. 162,858; Dec. 26.
- Petsy Manufacturing Company. (See Krumrein, John H.)
- Pett Products Co. (See Petterson, Holger.)

Alphabetical list of registrants of trade-marks—Continued.

- Petterson, Holger, doing business as Pett Products Co., Chicago, Ill. Cough drops and cough candy. No. 158,457; Sept. 5.
- Pettis, T. A., Company, Providence, R. I. Neckties and scarfs. No. 159,211; Sept. 19.
- Pfaffmann Egg Noodle Co., The, Cleveland, Ohio. Macaroni. No. 161,900; Nov. 21.
- Pfaffmann Egg Noodle Co., The, Cleveland, Ohio. Noodles, macaroni, and spaghetti. No. 162,102; Dec. 5.
- Pfeiffer Bros., Brooklyn, N. Y. Barley-malt sirup for use in baking and candy making. No. 151,905; Feb. 14.
- Pfeiffer, S., Mfg. Co., St. Louis, Mo. Certain medicinal and pharmaceutical preparations. No. 153,822; Mar. 28.
- Pflugh, Albert, & Co., Hoboken, N. J.; Hoboken White Lead & Color Works, Inc., successor. White lead. No. 22,437; renewed Feb. 7, 1923.
- Pharmacraft M'fg Co. (See Selkin, Saul J.)
- Phelan-Faust Paint Manufacturing Company, St. Louis, Mo. Washable oil paint. No. 154,364; Apr. 11.
- Philadelphia Quartz Company, Philadelphia, Pa. Series of pamphlets, booklets, or leaflets. No. 157,560; Aug. 8.
- Philadelphia Steam Heating Co., Philadelphia, Pa. Automatically electrically controlled draft devices for heating apparatus. No. 158,518; Sept. 5.
- Philadelphia Wool Scouring and Carbonizing Company, The, Philadelphia, Pa. Wool which has been scoured, carbonized, or otherwise processed. No. 159,984; Oct. 10.
- Philbert, Gustave, Nice, France. Insecticides for the destruction of flies, fleas, mosquitoes, etc. No. 151,906; Feb. 14.
- Philip Carey Manufacturing Co., The, Lockland, Ohio. Certain construction material. No. 157,173; July 25.
- Philippe, Louis, Inc., New York, N. Y. Face creams. No. 157,429; Aug. 1.
- Philipsborn's, Inc., Chicago, Ill. Men's suits and overcoats. No. 154,258; Apr. 11.
- Philipsborn's, Inc., Chicago, Ill. Women's and misses' waists. No. 154,658; Apr. 18.
- Philipsborn's, Inc., Chicago, Ill. Boys' suits, pants, overcoats, etc. No. 154,659; Apr. 18.
- Philipsborn's, Inc., Chicago, Ill. Overalls, work shirts, and pants for men and boys. No. 154,660; Apr. 18.
- Philipsborn's, Inc., Chicago, Ill. Silk tafetas and satin messalines in the piece. No. 159,734; Oct. 3.
- Philipsborn's, Inc., Chicago, Ill. Wool, cotton, or silk, or wool and cotton mixed, or silk and wool mixed, or silk and cotton mixed, and nainsook and linen underwear. No. 161,260; Nov. 7.
- Philipsborn's, Inc., Chicago, Ill. Silk, satin, and silk and cotton mixtures. No. 161,587; Nov. 14.
- Philipsborn's, Inc., Chicago, Ill. Woolen blankets, comforters, and quilts. No. 161,588; Nov. 14.
- Philipsborn's, Inc., Chicago, Ill. Cloth made of cotton, linen, silk, or wool. No. 161,589; Nov. 14.
- Phillips, A., & Co., Inc., New York, N. Y. Slippers and shoes of felt, etc. No. 150,929; Jan. 10.
- Phillips, A. E., St. Louis, Mo. Secondary electrical batteries. No. 153,278; Mar. 14.
- Phillips, Doup & Co., Inc., Brooklyn, and New York, N. Y. Certain named vehicles. No. 154,129; Apr. 4.
- Phillips Insulated Wire Co., Pawtucket, R. I., assignor to Phillips Wire Co. Insulated conducting wires. No. 20,339; renewed Nov. 10, 1921.
- Phillips-Jones Corporation, New York, N. Y. Cotton piece goods, cotton sheetings, shirtings, dress goods, etc. Nos. 162,981-2; Dec. 26.
- Phillips Wire Co. (See Phillips Insulated Wire Co., assignor.) (Renewed.)
- Philo Hay Company, The, Newark, N. J. Tonic for use in cases of nervous exhaustion, weakened vitality, etc. No. 158,282; Aug. 29.
- Phon-O-Game Co., The, Elizabeth, N. J. Parlor game used in conjunction with a phonograph. No. 162,578; Dec. 19.
- Phonograph Accessories Co., Milwaukee, Wis. Phonograph-record files. No. 151,210; Jan. 24.
- Phosphate Products Corporation, Richmond, Va. Chemical substance giving self-rising qualities to flour. No. 156,393; June 20.
- Phytamin Corporation, The, Wilmington, Del., and New York, N. Y. Medicinal food product for use as a general tonic. Nos. 158,058-9; Aug. 22.
- Piano Exchange, The. (See Bullinger, H. L.)
- Piccoli, Nick, Paterson, N. J. Shoe polish in paste, liquid, and powdered form. No. 151,907; Feb. 14.
- Picha, Louis J., St. Paul, Minn. Wheeled toys known as scooters. No. 150,930; Jan. 10.
- Pichel Company, The, New York, N. Y. Frames for ladies' hand bags. No. 150,521; Jan. 3.
- Picon & Cie., Marseille, France. Medicinal bitter wine. No. 161,828; Nov. 21.
- Picture Development Co., The, Toledo, Ohio. Moving-picture taking and projecting and talking machines, parts thereof, etc. No. 150,692; Jan. 3.
- Piedmont Mills, Inc., Lynchburg, Va. Wheat flour. No. 159,474; Sept. 26.
- Pieper, O. R., Co., Milwaukee, Wis. Fruit beverage sold as a soft drink and sirups used in preparation of the same. No. 159,985; Oct. 10.
- Pierce-Arrow Motor Car Company, The, Buffalo, N. Y. Internal-combustion engines and parts thereof. No. 157,174; July 25.
- Pierce-Arrow Motor Car Company, The, Buffalo, N. Y. Change-speed transmissions and parts thereof. No. 158,283; Aug. 29.
- Pierce-Arrow Motor Car Company, The, Buffalo, N. Y. Axles. No. 159,735; Oct. 3.
- Pierce, Henry L., Boston, Mass., assignor to Walter Baker & Company, Limited. Chocolate. No. 22,356; renewed Jan. 24, 1923.
- Pierce, Percy, Philadelphia, Pa. Toy aeroplane. No. 157,175; July 25.
- Pierce Remedy Company. (See McKenzie, Willard J.)
- Pierini, Attilio, doing business as The Great Northern Fur Dyeing & Dressing Co. Furs dyed to resemble nutria. No. 159,986; Oct. 10.
- Pierini, Attilio, doing business as Great Northern Fur Dyeing and Dressing Co., Brooklyn, N. Y. Dyed rabbit skins. No. 159,987; Oct. 10.
- Pierre Lemoine Cie., Inc., New York, N. Y. Nonalcoholic beer extract. No. 153,279; Mar. 14.
- Pierre Namron Company, Inc., New York, N. Y. Toilet preparations. No. 151,211; Jan. 24.
- Pierson Company, The, Rockford, Ill. Certain laundry appliances. No. 155,272; May 23.
- Pierson, Irving R., New York, N. Y. Metallic straps for use in strapping and sealing boxes, etc. No. 159,475; Sept. 26.
- Pilgrim, Lewis G., Detroit, Mich. Automobile and furniture polish. No. 159,476; Sept. 26.
- Pillsbury Flour Mills Company, Minneapolis, Minn. Wheat flour. No. 159,638; Sept. 26.
- Pinkus Brothers, New York, N. Y. Cigarettes. No. 150,946; Jan. 10.
- Pinkus, Flora W., New York, N. Y. Cigarettes. No. 153,823; Mar. 28.
- Pinkus, Flora W., New York, N. Y. Cigarettes. No. 160,633; Oct. 24.
- Pioneer Biochemic Products Co., Pleasant Hill, Mo. Laxative salts. No. 152,947; Mar. 7.
- Pioneer Creamery Co., Galesburg, Ill. Butter. No. 151,908; Feb. 14.
- Pioneer Drug Company, Seattle, Wash. Lymphatic compound for the treatment of certain ailments. No. 151,301; Jan. 24.
- Pioneer Instrument Company, Brooklyn, N. Y. Certain aerial navigation and scientific instruments. No. 160,269; Oct. 17.
- Pioneer Manufacturing Company, The, Cleveland, Ohio. Sweeping compound. No. 157,743; Aug. 15.
- Pioneer Manufacturing Company, The, Cleveland, Ohio. Paint thinner or turpentine substitute. No. 158,772; Sept. 12.
- Pioneer Tar Soap Company, The, Dayton, Ohio. Soaps. No. 151,909; Feb. 14.
- Pipkorn, W. H., Co., Milwaukee, Wis. Cement stucco. No. 162,450; Dec. 12.
- Piroxloid Products Corporation, New York, N. Y. Indoor baseball game. No. 156,394; June 20.
- Piroxloid Products Corporation, New York, N. Y. Games of the table-board type. No. 158,060; Aug. 22.
- Piston Ring Co. (not incorporated). (See Hallam, Ralph M.)
- Piston Ring Company, The, Muskegon Heights, Mich. Piston rings. No. 156,960; July 18.
- Pitman-Moore Company, Indianapolis, Ind. Anti-hog-cholera serum. No. 155,349; May 23.
- Pitney-Bowes Postage Meter Co., Stamford, Conn. Post-marking, stamping, and counting machines. No. 161,717; Nov. 14.
- Pittsburgh Brewing Company, Pittsburgh, Pa. Non-alcoholic, maltless beverages. Nos. 152,948-9; Mar. 7.
- Pittsburgh Dry Goods Company, The, Pittsburgh, Pa. Hosiery. No. 150,522; Jan. 3.
- Pittsburgh Dry Goods Company, The, Pittsburgh, Pa. Underwear for men, women, and children and knit corset covers. No. 157,561; Aug. 8.
- Pittsburgh Dry Goods Company, The, Pittsburgh, Pa. Hosiery. No. 157,744; Aug. 15.
- Pittsburgh Dry Goods Company, The, Pittsburgh, Pa. Hosiery. No. 160,270; Oct. 17.
- Pittsburgh Dry Goods Company, The, Pittsburgh, Pa. Hosiery. No. 162,579; Dec. 19.
- Pittsburgh Electric Furnace Corporation, Pittsburgh, Pa. Electrometallurgical furnaces. No. 151,574; Feb. 7.
- Pittsburgh-Florida Fruit Growers Assoc., Avon Park, Fla. Citrus fruits in their natural state. No. 160,623; Oct. 24.
- Pittsburgh Importing & Manufacturing Co., Pittsburgh, Pa. Preserves and cheese. No. 159,988; Oct. 10.
- Pittsburgh Oil Refining Corporation, Baltimore, Md. Oil used for making cores for castings. No. 162,451; Dec. 12.
- Pittsburgh Plate Glass Company, Rennous-Kleinle Division, Baltimore, Md. Brushes. No. 151,353; Jan. 31.
- Pittsburgh Plate Glass Company, Pittsburgh, Pa. Paints, enamels, varnishes, and paint-protective coatings. No. 151,354; Jan. 31.
- Pittsburgh Plate Glass Company, Pittsburgh, Pa. Liquid floor varnish coating. No. 158,773; Sept. 12.
- Pittsburgh Plate Glass Company, Pittsburgh, Pa. Fungicide. No. 159,736; Oct. 3.
- Pittsburgh Reinforced Brazing & Machine Company, Pittsburgh, Pa. Valves and pipe fittings. No. 159,477; Sept. 26.

- Pittsfield Coca Cola Bottling Corporation, also doing business as Mohawk Bottling Company, Pittsfield, Mass. Nonintoxicating, noncereal, maltless beverage and sirups used in preparation of same. No. 160,624; Oct. 24.
- Pitzl, Mathias, New Munich, Minn. Nonintoxicating, maltless beverage. No. 151,212; Jan. 24.
- Pluma, Joseph A., Los Angeles, Calif. Medicinal preparation for glandular insufficiency. No. 156,395; June 20.
- Pixie Corporation, The, New York, N. Y. Clothes-laundering tablets with both cleansing and bluing properties. No. 152,950; Mar. 7.
- Place, Rosalie M., Washington, D. C. Gift record books. No. 156,731; July 11.
- Plançon, Emile P., Brooklyn, N. Y. Ointment for the treatment of certain ailments. No. 151,575; Feb. 7.
- Plant Marvel Laboratories. (See Denkwalter, Fred.)
- Plant, Thomas G., Company, Boston, Mass. Boots, shoes, slippers. Nos. 157,177-8; July 25.
- Plant, Thomas G., Company, Boston, Mass. Boots, shoes, and slippers of leather, rubber, felt, etc. No. 158,774; Sept. 12.
- Plant, Thomas G., Company, Boston, Mass. Boots, shoes, and slippers. No. 161,262; Nov. 7.
- Planten, H., & Son, Inc., Brooklyn, N. Y. Tubular containers for medicinal ointments. No. 151,355; Jan. 31.
- Planten, H., & Son, Inc., Brooklyn, N. Y. Prophylactic ointment. Nos. 154,365-6; Apr. 11.
- Plantier, Dr. Ludovic, Annonay, Ardeche, France. Certain medicinal preparation. No. 152,252; Feb. 21.
- Plate, Ernst W., Philadelphia, Pa. Stringed musical instruments and the parts thereof. No. 156,732; July 11.
- Plaut-Butler Company, The, Cincinnati, Ohio. Boots, shoes, and slippers. No. 157,176; July 25.
- Plaut-Butler Company, The, Cincinnati, Ohio. Boots, shoes, and slippers. No. 161,261; Nov. 7.
- Plax Company, The, New York, N. Y. Laxative tablets. No. 159,478; Sept. 26.
- Plaza Music Co., New York, N. Y. Player-piano rolls. No. 161,263; Nov. 7.
- Plaza Music Company, New York, N. Y. Phonograph records. No. 156,733; July 11.
- Pleasant, Robert L., doing business as Nakoma Laboratories, New York, N. Y. Ointment for treatment of eczema and ulcers. No. 161,264; Nov. 7.
- Plotnick, Bergartt & Co., Baltimore, Md. Hosiery. No. 162,170; Dec. 5.
- Plotz, Anna, Chicago, Ill. Medicine for golter. No. 155,798; June 6.
- Plough Chemical Company, Memphis, Tenn. Toilet preparation—viz., a face bleach. No. 155,508; May 30.
- Plough Chemical Company, Memphis, Tenn. Toilet preparation—namely, deodorant. No. 159,989; Oct. 10.
- Plumb, Fayette R., Incorporated, Philadelphia, Pa. Handled hammers, hatchets, axes, adzes, and sledges. No. 157,373; Aug. 1.
- Plumbers Supply Company, Joplin, Mo. Porcelain and enamel bathtubs, lavatories, sinks, etc. No. 152,951; Mar. 7.
- Plumbers Trade Journal Publishing Company, The, New York, N. Y. Semimonthly magazine. No. 155,273; May 23.
- Plumbridge, Sophie, New York, N. Y. Fruit, nut, and berry confections; cakes, honey, preserves, tea, etc. No. 160,800; Oct. 24.
- Plumbridge, Sophie, New York, N. Y. Candy, cakes, fruit, and berry sirups, and juices, honey, etc. Nos. 162,859-60; Dec. 26.
- Plume & Atwood Mfg. Company, The, Waterbury, Conn. Straight and safety pins. No. 151,910; Feb. 14.
- Plunkett, William H., Chicago, Ill. Mops. No. 153,942; Mar. 28.
- Plymouth Cordage Company, Plymouth, Mass. Hard fiber cordage, including cables, ropes, and twine. No. 159,480; Sept. 26.
- Pneumatic Scale Corporation, Limited, Norfolk Downs, Mass. Mechanical packaging machinery. No. 161,590; Nov. 14.
- Pneumatic Scale Corporation, Limited, Quincy, Mass. Labeling and gumming machines. No. 162,861; Dec. 26.
- Poage, Clifford B., Columbus, Ohio. Finger rings. No. 156,911; July 18.
- Poage-Wall Milling Company, Catlettsburg, Ky. Wheat flour. Nos. 152,253-4; Feb. 21.
- Pocock Manufacturing Company Limited, The, Hamilton, Ontario, Canada. Cork stair treads. No. 159,737; Oct. 3.
- Pocono Rubber Cloth Company, Trenton, N. J. Waterproofed and rubberized fabrics. No. 159,990; Oct. 10.
- Podesta Import Company, San Francisco, Calif. Mushroom rooms in oil, fruits and vegetables, cheese, etc. Nos. 162,862-3; Dec. 26.
- Pohlman, A. W., Paper Co., Inc., New York, N. Y. Bond paper for writing and printing purposes. Nos. 160,625-6; Oct. 24.
- Pohlmann, Herman G., Chicago, Ill. Writing paper and envelopes. No. 160,627; Oct. 24.
- Pohlson, Carl V., Pawtucket, R. I. Certain toys. No. 153,280; Mar. 14.
- Pohlson, Carl V., Pawtucket, R. I. Chemical compounds for coloring flames. No. 153,824; Mar. 28.
- Pohlson, Carl V., doing business as The Pohlson Galleries, Pawtucket, R. I. Chemical preparation for use on burning material to color the flames. Nos. 161,265-6; Nov. 7.
- Pohlson Galleries, The. (See Pohlson, Carl V.)
- Poix, G. M., Inc., Brooklyn, N. Y. Brassières. No. 150,931; Jan. 10.
- Poix, G. M., Inc., Brooklyn, N. Y. Belt for personal wear. No. 151,911; Feb. 14.
- Poix, G. M., Inc., Brooklyn, N. Y. Brassières. No. 157,830; Aug. 15.
- Pola-Gloss Manufacturing Co. (See Coppola, James C.)
- Poland Soap Works, Anniston, Ala. Washing powder for cleaning anything that soap and water will clean. No. 162,339; Dec. 12.
- Polans, Samuel M., Duluth, Minn. Men's pants and mackinaws, boys' mackinaws, ladies' bloomers, etc. No. 161,376; Nov. 7.
- Polar Salve Company, New York, N. Y. Salve. No. 152,255; Feb. 21.
- Poldi Steel Corporation of America. (See Poldina Hut, továrna na kelimkovou ocel.) (Crucible Steel Works, assignor.)
- Poldi Steel Corporation of America, New York, N. Y. Steel billets, bars, forgings, and disks. No. 152,952; Mar. 7.
- Poldi Steel Corporation of America, New York, N. Y. Steel billets, bars, forgings, and disks. Nos. 162,864-5; Dec. 26.
- Poldihütte Tiegelschustahlfabrik. (See Poldina Hut, továrna na kelimkovou ocel.) (Crucible Steel Works.)
- Poldina Hut, Prague and Kladno, Czechoslovakia, assignor to Poldi Steel Corporation of America, New York, N. Y. Steel in blocks, bars, and forgings for all kinds of machines, etc. Nos. 155,983-4; June 13.
- Poldina Hut, továrna na kelimkovou ocel (Crucible Steel Works), also trading as Poldihütte Tiegelschustahlfabrik, Prague and Kladno, Czechoslovakia, assignor to Poldi Steel Corporation of America, New York, N. Y. Steel in blocks and in bars and forgings for all kinds of machines, artisans' and cutting tools, and springs. No. 158,707; Sept. 12.
- Polhemus, Louis E., Miami, Ariz. Miners' lamps and burners thereof. No. 160,271; Oct. 17.
- Polisben Manufacturing Company, Newport, R. I. Automobile, etc., polish, floor wax, cleaning compound. No. 161,591; Nov. 14.
- Politis, John, Chicago, Ill. Preparation for certain named purposes. No. 154,130; Apr. 4.
- Polk County Packing Company, Lakeland, Fla. Oranges and grapefruit in their natural state. No. 160,941; Oct. 31.
- Polkase Mfg. Co., New York, N. Y. Baby outfits. No. 156,912; July 18.
- Pollack, Max, & Co., Inc., New York, N. Y. Sewing threads. No. 153,281; Mar. 14.
- Pollack, Max & Co. Inc., New York, N. Y. Sewing threads. No. 153,132; Apr. 4.
- Pollack, Max, & Co., Inc., New York, N. Y. Sewing threads. No. 154,833; May 9.
- Pollack, Max, & Co., Inc., New York, N. Y. Sewing threads. No. 159,739; Oct. 3.
- Pollak Steel Company, The, Cincinnati, Ohio. Metal bars for reinforcing concrete. No. 159,738; Oct. 3.
- Pollock, Robert B., Los Angeles, Calif. Garment patterns. No. 152,953; Mar. 7.
- Pollotsek, Max, Columbus, Ohio. Preparation for hay fevers, asthma, colds, and coughs. No. 155,800; June 6.
- Polly, Madame. (See Green, Frances H.)
- Polonia Medicine Company, Philadelphia, Pa. Herb teas, a preparation for constipation, headache, etc. No. 157,430; Aug. 1.
- Polustre Co., Philadelphia, Pa. Polishes and lacquers for articles of wood or metal. No. 161,592; Nov. 14.
- Polyphonwerke Aktien-Gesellschaft, Berlin, Germany. Talking machines and records. No. 151,213; Jan. 24.
- Polyphonwerke Aktiengesellschaft, Berlin, Germany. Phonographic sound records or plates. No. 155,049; May 16.
- Polyphonwerke Aktiengesellschaft, Berlin, Germany. Certain accessories and supplies for phonographs. No. 155,058; May 16.
- Pond's Extract Company, New York, N. Y. Cold cream. No. 157,431; Aug. 1.
- Pool, Norman T., Atlanta, Ga. Certain cleaning preparations. No. 155,799; June 6.
- Poole, John W., doing business as Victory Bottling Co., Terra Alta, W. Va. Beverages sold as soft drinks and sirup for making same. No. 159,062; Sept. 19.
- Pope Cut Glass Company, Inc., New York, N. Y. Cut-glass articles. No. 162,866; Dec. 26.
- Pope, Virginia, New York, N. Y. Outergarment for women and girls to be worn as a dress or as knickerbockers. No. 158,061; Aug. 22.
- Poppette Confection Co. (See Glasser, C. T.)
- Popular Radio, Inc., New York, N. Y. Monthly publication. No. 153,775; Sept. 12.
- Porcelain Insulator Corporation, The, Lima, N. Y. Electric insulators made of porcelain. No. 153,282; Mar. 14.
- Porciron Mfg. Co., The, Royersford, Pa. Metal flower pots. No. 155,051; May 16.

Alphabetical list of registrants of trade-marks—Continued.

- Porete Mfg. Company, Newark, N. J. Siding, roofing, insulating, partition, etc., floor slabs made of Portland cement concrete. No. 159,741; Oct. 3.
- Porteous, Percy A., Cleveland, Ohio. Compound for patching tubes and rubber goods. No. 159,212; Sept. 19.
- Porteous Products Corp., Inc., The, New York, N. Y. Patches for rubber goods. No. 160,634; Oct. 24.
- Porter, Arthur L., New York, N. Y. Powder for foot baths. No. 158,284; Aug. 29.
- Porter Bros., Philadelphia, Pa. Beverages sold as soft drinks and sirups for making the same. No. 160,272; Oct. 17.
- Porter Chemical Company, The, Hagerstown, Md. Chemicals. No. 159,063; Sept. 19.
- Porter, Henry K., Everett, Mass. Bolt clippers. No. 153,825; Mar. 28.
- Portland Cordage Co., The, Portland, Oreg. Lariat ropes. No. 150,523; Jan. 3.
- Portland Cordage Co., The, Portland, Oreg. Transmission rope. No. 150,932; Jan. 10.
- Portland Cordage Co., The, Portland, Oreg. Manila rope. No. 155,052; May 16.
- Portland Flouring Mills Co., The, Portland, Oreg. Stock and poultry feeds, breakfast cereals, and flours. No. 159,479; Sept. 26.
- Portland Overall Manufacturing Company, Portland, Me. Overalls. No. 154,661; Apr. 18.
- Post, Abram H., Chicago, Ill. Rebuilt typewriters, typewriter repair parts, etc. No. 157,179; July 25.
- Post-Michel Co., Inc., Buffalo, N. Y. Greeting cards. No. 151,912; Feb. 14.
- Poster Advertising Association, Chicago, Ill. Monthly publication. No. 158,776; Sept. 12.
- Potaszchnik, Jacob, New York, N. Y. Hair tonic. No. 152,256; Feb. 21.
- Potter, Earle F., Creston, Iowa. Detectors for indicating the condition of automobile ignition and signaling circuits. No. 151,913; Feb. 14.
- Potter, Raymond G., Worcester, N. Y. Liquid preparation designed to prevent automobile windshields from becoming coated over with rain, snow, steam, or frost. No. 162,580; Dec. 19.
- Potter & Wrightington, assignors to Potter-Wrightington, Inc., Boston, Mass. Prepared flour. No. 160,273; Oct. 17.
- Potter-Wrightington, Inc. (See Potter & Wrightington, assignors.)
- Potts, Harvey B., Chicago, Ill. Automobile and furniture polish. No. 154,207; Apr. 4.
- Pottsdamer, Edward A., et al., trustees. (See Lowman, Eugene M., assignor.)
- Pottstown Fire Brick Company, Pottstown, Pa. Preparation of clay for making fire brick, stove and chimney linings, etc. No. 153,614; Mar. 21.
- Poudrieres Reunies de Belgique Societe Anonyme, Brussels, Belgium. Explosive powders, dynamite, detonators, etc. No. 158,062; Aug. 22.
- Poulos, George, Chicago, Ill. Concentrated maltless sirup to be used as a flavor in a nonalcoholic beverage. No. 160,628; Oct. 24.
- Poultry Feed Company, Chicago, Ill. Pulverized poultry manure. No. 153,283; Mar. 14.
- Poultry Producers of Central California, Inc., San Francisco, Calif. Eggs. No. 158,582; Sept. 5.
- Pouting, Herbert G., London, England. Kinematograph projection apparatus. No. 154,367; Apr. 11.
- Powell Corporation, The, Canandaigua, N. Y. Vinegar. No. 156,734; July 11.
- Powell, Walter S., Georgetown, Ky. Intestinal cathartic for constipation. No. 157,374; Aug. 1.
- Power-Oil Co. Ltd., The, St. Louis, Mo. Lubricating oil. No. 155,053; May 16.
- Power Packing Plant, Nashville, Tenn. Lard, hams, and bacon. No. 160,111; Oct. 10.
- Power Packing Plant, Nashville, Tenn. Hams, boiled ham, bacon, shoulders, picnics, and lard. No. 160,629; Oct. 24.
- Power Paper Company, Springfield, Mass. Writing, printing, and typewriting papers, correspondence envelopes, etc. No. 155,175; May 16.
- Power Supply Company, Terre Haute, Ind. Certain electrical apparatus, machines, and supplies. No. 160,942; Oct. 31.
- Power Supply Company, Terre Haute, Ind. Wooden handles for tools, auger bits, and auger-bit sets, lifting jacks, etc. No. 162,867; Dec. 26.
- Power Supply Company, Terre Haute, Ind. Hardware and plumbing and steam-fitting supplies. No. 162,868; Dec. 26.
- Power Truck and Tractor Company, Detroit, Mich. Motor trucks. No. 151,914; Feb. 14.
- Powers, Emmett, trading as Joon Perfumery Co., Denver, Colo. Toilet preparations. No. 157,375; Aug. 1.
- Powers Paper Company, Springfield, Mass. Writing, printing, and typewriter paper, papeteries, correspondence envelopes, etc. No. 157,563; Aug. 8.
- Powers Paper Company, Springfield, Mass. Writing and printing paper, writing tablets, papeteries, etc. No. 157,564; Aug. 8.
- Powers Paper Company, Springfield, Mass. Writing, printing, and typewriter paper, papeteries, correspondence envelopes, etc. No. 157,565; Aug. 8.
- Practical Electrics Company, Incorporated, New York, N. Y. Magazines monthly issued. No. 157,566; Aug. 8.
- Pratt, Edward A., Peoria, Ill. Accounting system. No. 153,382; Mar. 14.
- Pratt Food Company, Philadelphia, Pa. Prepared food for animals. No. 21,632; renewed Aug. 16, 1922.
- Pratt Food Company, Philadelphia, Pa. Prepared poultry food. No. 21,634; renewed Aug. 16, 1922.
- Pratt & Whitney Company, New York, N. Y. Dimension gauges and attachments therefor. No. 154,368; Apr. 11.
- Precious Metals Tempering Co., New York, N. Y. Tempered gold alloy. No. 162,108; Dec. 5.
- Precision Equipment Co., The, Cincinnati, Ohio. Spark plugs, receiving tuners, audion-control cabinets, etc. No. 152,257; Feb. 21.
- Prehn, Ernest, doing business as Hunterdon Garage and Machine Shop, Newark, N. J. Brace for a running-board support, automobile wheels, rims, and tires. No. 162,869; Dec. 26.
- Primatt Products Co., Chicago, Ill. Malt sirup. No. 162,340; Dec. 12.
- Premier Cutlery, Inc., New York, N. Y. Table flatware and cutlery of base metal. Nos. 152,484-5; Feb. 28.
- Premier Grand Piano Corporation, New York, N. Y. Pianos, and piano players. No. 155,054; May 16.
- Premier Malt Sales Corp. (See Wielich, Albert.)
- Premier Malt Products Co. of Ohio, Inc., Chicago, Ill. Malt sirup for food purposes. Nos. 159,481-3; Sept. 26.
- Prentice, Frederick, Richville, Minn. Radiator cement. No. 153,615; Mar. 21.
- Prentiss-Wabes Stove Co., Wisconsin Rapids, Wis. Ovens and portable gasoline and oil stoves. No. 153,383; Mar. 14.
- Preservotop Auto Specialty Co., Seattle, Wash. Preservative dressing or stain for automobile tops. No. 152,954; Mar. 7.
- President Knitting Mills, Inc., New York, N. Y. Children's coats, sweaters, slip-ons, and suits. No. 161,593; Nov. 14.
- Press, J. & Sons, Philadelphia, Pa. Watches. No. 158,519; Sept. 5.
- Presto Chemical Co., Detroit, Mich. Cleaning fluid. No. 153,284; Mar. 14.
- Preston Chemical Co. Inc., Brooklyn, N. Y. Pharmaceutical preparation. No. 153,826; Mar. 28.
- Preston, Horace G., Detroit, Mich. Leather packings. No. 151,043; Jan. 10.
- Preusser, Serena B., Belvedere, Calif. Children's garments. No. 156,036; June 13.
- Price and Teeple Piano Company, Chicago, Ill. Pianos and player pianos. No. 152,955; Mar. 7.
- Price & Teeple Piano Company, Chicago, Ill. Pianos and player pianos. No. 157,432; Aug. 1.
- Priest, Chase, Grant, Iowa. Yeast used in the preparation of bread. No. 154,883; May 9.
- Priest, Harry D., doing business as Priest, Page & Co., Boston, Mass. Hand trucks designated in the trade as mill cars. No. 160,630; Oct. 24.
- Priest, Page & Co. (See Priest, Harry D.)
- Primatt Products Co., Chicago, Ill. Malt extract for food purposes. No. 158,777; Sept. 12.
- Primatt Products Co., Chicago, Ill. Beverages sold as soft drinks and sirups used in preparation of same. No. 159,991; Oct. 10.
- Primeaux, Francis, Orange, Tex. Medicinal preparation for the relief of dysentery. No. 160,943; Oct. 31.
- Primrose Silk Stores, Inc., New York, N. Y. Silks in the piece. No. 159,740; Oct. 3.
- Prina, Frank R., Corporation, The, New York, N. Y. Wheat flour. Nos. 151,915-16; Feb. 14.
- Prince, H. G., & Co., Oakland, Calif. Canned fruits. No. 156,913; July 18.
- Princess Corset Co., New York, N. Y. Corsets and brassieres. No. 154,662; Apr. 18.
- Princess Garment Company, The, Cincinnati, Ohio. Middies, middy suits, washdresses, smocks, etc. No. 151,214; Jan. 24.
- Printator, G. m. b. H., Berlin, Germany. Printing machines and parts thereof. No. 156,735; July 11.
- Printz, Georg & Co., Aachen, Germany. Sewing needles. No. 19,196; renewed Mar. 17, 1921.
- Procter and Gamble Company, The, Cincinnati, Ohio. Cooking fats. No. 150,524; Jan. 3.
- Procter & Gamble Company, The, Cincinnati, Ohio. Soap. No. 155,801; June 6.
- Procter and Gamble Company, The, Cincinnati, Ohio. Cooking fats. No. 156,736; July 11.
- Proconier, William L., Chicago, Ill. Tapping chucks. No. 162,649; Dec. 19.
- Production Service Company, The. (See Radebaugh, Gustav H.)
- Produits Chimiques & Pharmaceutiques Meurice Societe Anonyme, Brussels, Belgium. Medicated bougies for human use. No. 157,376; Aug. 1.
- Professional Products Co., Pasadena, Calif. Certain medicinal salve. No. 160,944; Oct. 31.
- Professional Products Co., Pasadena, Calif. Internal remedy for indigestion. No. 161,267; Nov. 7.
- Progressive Leather Goods Co., New York, N. Y. Leather goods. No. 155,055; May 16.
- Frontic Druggists, Inc., The, Baltimore, Md. Certain medicinal and toilet preparations. No. 150,525; Jan. 3.
- Frontic Druggists, Inc., The, Baltimore, Md. Certain medicinal preparations. No. 156,396; June 20.
- Prophylactic Tooth Powder, Inc., New York, N. Y. Tooth powder. No. 159,064; Sept. 19.
- Propp, M., Co., The, New York, N. Y. Christmas-tree outfits. No. 152,956; Mar. 7.

Alphabetical list of registrants of trade-marks—Continued.

- Propp, M., Co., The, New York, N. Y. Electric sockets. No. 156,737; July 11.
- Propper Silk Hosiery Mills, Inc., New York, N. Y. • Women's hosiery. No. 157,562; Aug. 8.
- Propper Silk Hosiery Mills, Inc., New York, N. Y. Hosiery made of silk, artificial silk, and silk and cotton. Nos. 162,017-18; Nov. 28.
- Proser, Aaron, Baltimore, Md. Substitute for fowl fats. No. 150,526; Jan. 3.
- Protection Ink Company. (See Gams, Joseph.)
- Protectu Corporation, Chicago, Ill. Checks, drafts, check-book covers and cutters. No. 153,131; Apr. 4.
- Protex Fuse Works, Cleveland, Ohio. Fuses. No. 152,957; Mar. 7.
- Prudent Chemical Co. (See Miller, Isadore A.)
- Prunier & Cie., Paris, France. Certain medicinal preparation. No. 150,527; Jan. 3.
- Prunier, G., & Cie., Paris, France. Concentrated food for infants, invalids, and convalescents. No. 151,917; Feb. 14.
- Prunier, Georges & Cie., Paris, France. Mineral-water salts in tablet form. No. 156,515; June 27.
- Prym, William, Co. Ltd. (See Solow, N., assignor.)
- Prym, William, Company, Limited, The, Stolberg, Germany. Snap fasteners. No. 150,934; Jan. 10.
- Przedeki, Ludwig, Breslau, Germany. Smoking and chewing tobacco, snuff, cigars, cigarettes. No. 150,935; Jan. 10.
- Psycho-Occult Institute of Business Success, Chicago, Ill. Publication in the form of booklets and leaflets. No. 162,341; Dec. 12.
- Public Ledger Company, Philadelphia, Pa. Newspaper cartoons. No. 153,827; Mar. 28.
- Puffer-Hubbard Manufacturing Company, Minneapolis, Minn. Child's toy wagon. No. 162,581; Dec. 19.
- Pugh, Burton H., Topeka, Kans. Windshield sunshades. No. 156,809; July 11.
- Pugh, Charles H., Limited, Birmingham, England. Lawn mowers. No. 153,828; Mar. 28.
- Pugh, William M., Baltimore, Md. Gasoline improver. No. 150,528; Jan. 3.
- Puls, Charles H., New York, N. Y. Fire brick for lining furnaces, ovens, etc. No. 159,742; Oct. 3.
- Pulver Company Inc., Rochester, N. Y. Chewing gum. No. 156,738; July 11.
- Pupley, James, New York, N. Y. Preparation for promoting the growth of hair. No. 159,743; Oct. 3.
- Purabrand Products Co., The, Pleasant Hill, Ohio. Certain medicinal preparations. No. 157,567; Aug. 8.
- Puramul Dry Milk Co. (See Secord, Guy.)
- Purcell Company, The, Kansas City, Mo. Stock weaners. No. 156,739; July 11.
- Purchasing Agents Association of Western Massachusetts, Springfield, Mass. Periodical published monthly. No. 158,778; Sept. 12.
- Pure Food Specialty Corporation, New York, N. Y. Bouillon cubes. No. 152,621; Feb. 28.
- Pure Oil Company, The, Columbus, Ohio. Textile oils employed in the manufacture of fabrics. No. 155,350; May 23.
- Pure Products Syrup Corporation, New York, N. Y. Non-alcoholic, nonceral, maltless, fruit juice beverages sold as soft drinks and sirups for making same. No. 158,779; Sept. 12.
- Pureline Company, Inc., New York, N. Y. Certain medicinal and toilet preparations. No. 160,945; Oct. 31.
- Purinton Medicine Co., Detroit, Mich. Remedy for rheumatism. No. 21,549; renewed Aug. 2, 1922.
- Puritan Drug Mfg. Company, The, Columbus, Ohio. Chemicals, medicines, and pharmaceutical preparations. No. 159,992; Oct. 10.
- Puritan Drug Mfg. Co., The, Columbus, Ohio. Sewing-machine oil. No. 161,594; Nov. 14.
- Puritan Drug Mfg. Co., The, Columbus, Ohio. Writing inks. No. 161,595; Nov. 14.
- Puritan Pharmaceutical Co., St. Louis, Mo. Certain medicinal and pharmaceutical preparations. No. 153,829; Mar. 28.
- Purity Beverage Company, Maywood, Ill. Nonalcoholic, maltless beverage sold as a soft drink. No. 160,631; Oct. 24.
- Purity Biological Laboratories, Sioux City, Iowa. Vaccines and serums. No. 156,397; June 20.
- Purity Biscuit Company, The, Salt Lake City, Utah. Crackers, cakes, and biscuits. No. 162,452; Dec. 12.
- Purity Cream Cheese Company, The, Cleveland, Ohio. Brindza cheese. No. 152,958; Mar. 7.
- Purity Wool Preparing Company, Peterborough, N. H. Manicuring felts and buffers. No. 161,377; Nov. 7.
- Putt-Putt Co., The, Chicago, Ill. Indoor golf game. No. 160,274; Oct. 17.
- Pyle-National Company, The, Chicago, Ill. Electric locomotive headlights and reflectors. No. 161,025; Oct. 31.
- Py-Coda Laboratories, New York, N. Y. Preparation for the treatment of pyorrhea. No. 159,484; Sept. 26.
- Pyorr-Laris Company, The, St. Louis, Mo. Tooth paste. No. 151,918; Feb. 14.
- Pyramid Products Co., The. (See Parrish, Harry A.)
- Py-Re-Gon Company, Chicago, Ill. Medicinal compound for the treatment of pyorrhea. No. 159,065; Sept. 19.
- Pyro-Non Paint Co., Inc., Brooklyn, N. Y. Fireproofing compounds. No. 160,635; Oct. 24.
- Pyrosal Company, The, Spokane, Wash. Dental paste. No. 155,509; May 30.
- Q. R. S. Music Company, The, Chicago, Ill. Perforated note sheets for player pianos. No. 151,215; Jan. 24.
- Q. R. S. Music Company, The, Chicago, Ill. Perforated note sheets for player pianos. No. 161,268; Nov. 7.
- Quaker City Chocolate & Confectionery Company, Philadelphia, Pa. Hard and soft candies and chocolates. No. 157,745; Aug. 15.
- Quaker City Chocolate & Confectionery Company, Philadelphia, Pa. Candy. No. 160,946; Oct. 31.
- Quaker City Chocolate & Confectionery Company, Philadelphia, Pa. Candies. No. 162,109; Dec. 5.
- Quaker City Morocco Co., Philadelphia, Pa. Kid and morocco leather. No. 153,285; Mar. 14.
- Quaker Hat Company, New York, N. Y. Ladies' hats. No. 157,180; July 25.
- Quaker Lace Company, Philadelphia, Pa. Lace curtains and nets or curtain lace in piece goods. No. 157,831; Aug. 15.
- Quaker Lace Company, Philadelphia, Pa. Lace curtains and nets or curtain lace goods in the piece. No. 161,596; Nov. 14.
- Quality Corset Company, Inc., New York, N. Y. Corsets. No. 161,269; Nov. 7.
- Quality Mattress Company, Rochester, N. Y. Metal beds, cribs, couches, and springs and mattresses therefor. No. 151,919; Feb. 14.
- Quality Specialty Company, Worcester, Mass. Salad dressing. No. 153,943; Mar. 28.
- Quality Specialty Company, Worcester, Mass. Salad dressing. No. 154,663; Apr. 18.
- Quasi-Arc Company, Limited, The, London, England. Metal-welding electrodes and metal parts for resistances, reactances, electric switches, and the like. No. 153,830; Mar. 28.
- Quateman, David, Chicago, Ill. Certain medicinal, chemical, and pharmaceutical preparations, alum, borax, etc. No. 159,485; Sept. 26.
- Queen City Extract Company, The, Cincinnati, Ohio. Malt extract. No. 154,133; Apr. 4.
- Queen City Printing Ink Company, The, Cincinnati, Ohio. Printing inks. No. 162,342; Dec. 12.
- Quest Manufacturing Company, Chicago, Ill. Typewriter carbon paper and ribbons. No. 151,920; Feb. 14.
- Quick, Harry O., doing business as Quick Shoe Company, Brockton, Mass. Leather boots and shoes. No. 158,780; Sept. 12.
- Quick Shoe Company. (See Quick, Harry O.)
- Quigley Furnace Specialties Co. Incorporated, New York, N. Y. Carbureting boxes and pots. No. 152,959; Mar. 7.
- Quigley Furnace Specialties Co., Incorporated, New York, N. Y. Calcined pulverized material. No. 159,744; Oct. 3.
- Quinby, Edmund B., Tampa, Fla. Cigars. No. 152,960; Mar. 7.
- Quinn, Richard, Philadelphia, Pa. Phonograph sound-box attachments. No. 155,056; May 16.
- Quinoids Company. (See Roger, Julian.)
- Quinorient Company, Inc., New York, N. Y. Hair tonic. No. 158,285; Aug. 29.
- Quinto, Cohen & Levin, Inc., New York, N. Y. Men's and boys' outer clothing. No. 154,664; Apr. 18.
- R. B. Clothing Company, Inc., The, Cincinnati, Ohio. Men's clothing for outer wear. No. 157,568; Aug. 8.
- R. I. V. Co. Inc., New York, N. Y. Ball bearings. No. 162,112; Dec. 5.
- R. K. L. Company, Grand Rapids, Mich. Leather shoes and soles. No. 154,671; Apr. 18.
- R. K. L. Company, Grand Rapids, Mich. Leather shoes and leather shoe soles. No. 157,189; July 25.
- R. V. G. Company, Inc., Brooklyn, N. Y. Flash lights and batteries. No. 155,814; June 6.
- Rabinovitz, Joseph, trading as Modern Light Supply Company, Philadelphia, Pa. Electrical lighting fixtures and supplies. No. 156,740; July 11.
- Racille, Roslyn, New York, N. Y., assignor to A. Fruchter. Ladies' hats. No. 156,810; July 11.
- Racine Electric Co., Racine, Wis. Electric motors. No. 158,520; Sept. 5.
- Racine Rubber Company, Racine, Wis. Rubber or rubber and fabric tires and tubes for vehicles. No. 159,993; Oct. 10.
- Racine Rubber Company, Racine, Wis. Rubber or rubber and fabric tires for vehicles. No. 159,994; Oct. 10.
- Racine Rubber Company, Racine, Wis. Rubber and rubber and fabric tires and tubes for vehicles. No. 160,637; Oct. 24.
- Racine Tool and Machine Company, Racine, Wis. Machines for sawing metal, power hack saws, and hack-saw blades. Nos. 151,399-400; Jan. 31.
- Radcliff, Idella E., Glendale, Calif. Compound for poultry. No. 153,831; Mar. 28.
- Radebaugh, Gustav H., doing business as The Production Service Company, Urbana, Ill. Job bulletin boards. No. 159,995; Oct. 10.
- Rade Rite Mfg. Co., The, Holyoke, Mass. Radiator-sealing material. No. 156,398; June 20.
- Radial Company, New York, N. Y. Automatic filament current adjuster. No. 162,343; Dec. 12.
- Radio Builder Pub. Co. (See Kanofsky, Raymond.)
- Radior Co. Ltd. of London, The, New York, N. Y. Skin soap. No. 150,529; Jan. 3.
- Radio Corporation of America, New York, N. Y. Electrical vacuum tubes and valves. Nos. 150,947-8; Jan. 10.

Alphabetical list of registrants of trade-marks—Continued.

- Radio Corporation of America, New York, N. Y. Radio receiving apparatus. No. 152,961; Mar. 7.
- Radio Corporation of America, New York, N. Y. Vacuum tubes and valves. Nos. 155,802-3; June 6.
- Radio Corporation of America, New York, N. Y. Electric vacuum tubes and valves. Nos. 160,947-8; Oct. 31.
- Radio Improvement Co., not inc. (See Weiss, Paul F.)
- Radio Instrument Company. (See Daniel, Brent.)
- Radio Products Corporation, Detroit, Mich. Certain described plugs for radio apparatus. No. 162,344; Dec. 12.
- Radio World Company. (See Hennessy, Roland B.)
- Radiola Wireless Corporation, The, New York, N. Y. Wireless receiving and transmitting sets, crystal detectors, vacuum-tube sockets, etc. No. 162,345; Dec. 12.
- Radiotone Company, The. (See Radiotone Photo Company, assignor.)
- Radiotone Photo Company, The, Chicago, Ill., assignor to The Radiotone Company, Dover, Del. Photographic prints on metal. No. 155,274; May 23.
- Radium Company of Colorado, The, Denver, Colo. Radium products as a therapeutic agent. No. 161,270; Nov. 7.
- Radium Company of Colorado, The, Denver, Colo. Monthly medical journal. No. 162,346; Dec. 12.
- Radium Research Laboratories, The, New York, N. Y. Tablets used as a blood purifier and general blood tonic. No. 159,745; Oct. 3.
- Radzevich, Joseph, Waterbury, Conn. Healing salve. No. 160,949; Oct. 31.
- Raelin Products Company. (See Asselin, Homer L.)
- Raes, Rene, East Moline, Ill. Cakes. No. 161,901; Nov. 21.
- Raezer, George B., Lititz, Pa. Medicine for diseases of the throat and lungs. No. 155,510; May 30.
- Ragus Sugar Company Inc., Buffalo, N. Y. Sugar, teas, coffee, rice, cocoa, cornstarch. No. 159,486; Sept. 26.
- Rahn, Earl W., Cleveland, Ohio. Medicinal capsules for hay fever, asthma, etc. No. 158,063; Aug. 22.
- Raiguel, E. M., Incorporated, Philadelphia, Pa. Writing fluid. No. 162,347; Dec. 12.
- Railroad Accessories Corporation. (See Everett, Edward A.)
- Railton, B. A., Company, Chicago, Ill. Molasses, mustard, vinegar, fruits, cereals, etc. No. 162,870; Dec. 26.
- Railway Lock-Spike Co., Atlanta, Ga. Railway spikes. No. 157,181; July 25.
- Railway Lock-Spike Company, Atlanta, Ga. Railway tie plates. No. 160,638; Oct. 24.
- Railway and Mine Supply Company, Kincaid, Ill. Industrial and mine cars and roller-bearing trucks, motor and horse drawn, and wheels and axles. No. 160,639; Oct. 24.
- Railway Specialty Company, The, Atchison, Kans. Certain machinery and tools. No. 151,576; Feb. 7.
- Rainbo Paper Favor Works, Chicago, Ill. Toy favors. No. 161,271; Nov. 7.
- Rainbow Import & Export Corporation, New York, N. Y. Aluminum kitchen utensils and flatware. No. 159,487; Sept. 26.
- Rainbow Shirt Corporation, New York, N. Y. Dress and negligee shirts. No. 156,741; July 11.
- Rainford, Jacob A., Bergenfield, N. J. Piece goods used for interlining garments. No. 155,057; May 16.
- Raisin Products Co. of America, The, New York, N. Y. Tablets for treatment of anemia, loss of appetite, and as a general tonic. No. 158,522; Sept. 5.
- Ralstin, Colin C., Stillwater, Okla. Ointment or salve for external treatment of sores, burns, itch. No. 150,530; Jan. 3.
- Rambo & Regar, Inc., Norristown, assignor to Chipman Knitting Mills, Easton, Pa. Stockings and hosiery. No. 153,286; Mar. 14.
- Rambo & Regar, Inc., Norristown, assignors to Chipman Knitting Mills, Easton, Pa. Stockings and hosiery. No. 153,511; Mar. 21.
- Rambo & Regar Incorporated, Norristown, Pa. Hosiery. No. 154,665; Apr. 18.
- Rambo & Regar, Incorporated, Norristown, Pa. Hosiery. No. 159,066; Sept. 19.
- Ramp Buildings Corporation, New York, N. Y. Magazines published monthly. No. 158,781; Sept. 12.
- Rand McNally and Company, Chicago, Ill. Maps, atlases, miscellaneous books, magazines, etc. No. 157,707; Aug. 15.
- Randazzo, Isidoro, Kansas City, Mo. Medicinal preparations for stomach, liver, and kidney troubles. No. 151,577; Feb. 7.
- Randolph Milling Company, Baldwin, Ill. Wheat flour. No. 153,287; Mar. 14.
- Rankin Mills Inc., Gastonia, N. C. Cotton yarn. No. 153,288; Mar. 14.
- Rapp, Arthur R., Company, Chicago, Ill. Wrapping paper, bond paper, and cover paper. No. 159,488; Sept. 26.
- Rappaport, Louis S., doing business as Lissenin Radio Parts Co., Ridgefield Park, N. J. Radio receiving sets. No. 160,950; Oct. 31.
- Rassias, George L., Brooklyn, N. Y. Candy. No. 156,914; July 18.
- Rat Biscuit Company, The, Springfield, Ohio. Poison for rats, mice, and insects. No. 155,582; May 30.
- Rat Biscuit Company, The, Springfield, Ohio. Rat, mice, and insect poison. No. 158,521; Sept. 5.
- Rathion-Eggers Company, San Francisco, Calif. Mineral water. No. 155,058; May 16.
- Rauch Cigar Company Inc., Indianapolis, Ind. Tobacco products. No. 155,059; May 16.
- Rauh Bros. & Co., Pittsburgh, Pa. Certain articles of clothing. No. 154,666; Apr. 18.
- Rauh Bros. & Co., Pittsburgh, Pa. Men's dress, negligee, and work shirts. No. 157,182; July 25.
- Rauschenberger, John, Company, Milwaukee, Wis. Certain named cordage. No. 158,782; Sept. 12.
- Rauskolb, F. W., Company, Medford, Mass. Gold, silver, aluminum, composition, ribbon, white, and color leaf. No. 157,433; Aug. 1.
- Raven, John C., Astoria, N. Y. Mixture for the treatment of pneumonia, influenza, bronchitis, asthma, etc. No. 155,806; June 6.
- Rawles, James D., Company, Boston, Mass. Metal pipe fittings, pipe hangers, valves, and nuts. No. 155,060; May 16.
- Ray Battery Company, Detroit, Mich. Storage batteries. No. 153,289; Mar. 14.
- Ray Fish Packing Co. Inc., The, Bay Shore, N. Y. Fish and sea food, more particularly canned fillet of flounders, etc. No. 151,921; Feb. 14.
- Raybestos Company, The, Bridgeport, Conn. Brake and clutch linings. No. 152,107; Feb. 14.
- Raybestos Company, The, Bridgeport, Conn. Brake lining. No. 153,290; Mar. 14.
- Raybestos Company, The, Bridgeport, Conn. Brake lining. No. 157,183; July 25.
- Raydeo Belt Co., Pleasant Ridge, Ohio. Automobile textile fan belts. No. 157,184; July 25.
- Ray-Di-Co., Chicago, Ill. Electric motors, generators, and motor-generator units. No. 152,963; Mar. 7.
- Raymond Granite Company, San Francisco and Los Angeles, Calif. Construction materials. No. 150,531; Jan. 3.
- Raymond, Le Roy, Ocean Park, Calif. Animal toy made of wood. No. 156,037; June 13.
- Ray-Vin Medicine Co., The. (See Davidson, Latham A., assignor.)
- Readers' Publishing Corporation, New York, N. Y. Monthly publications. No. 150,949; Jan. 10.
- Readers' Publishing Corporation, New York, N. Y. Monthly magazine. No. 158,783; Sept. 12.
- Reading Stove Works, Orr, Painter & Co., The, Reading, Pa. Stoves and heaters and parts of the same. No. 22,578; renewed Feb. 28, 1923.
- Reco-Rap Company, The, St. Louis, Mo. Transportation packages for talking-machine records. No. 159,067; Sept. 19.
- Real Fruit Beverage Co., South Bend, Ind. Nonalcoholic, maltless, noncarbonated beverages. No. 155,061; May 16.
- Realite Pencil Co., Chicago, Ill. Lead pencils. No. 152,486; Feb. 28.
- Rechsteiner Embroidery Company, Inc., Chicago, Ill. Embroideries or embroidered articles. No. 155,511; May 30.
- Rektenwalt, Millard H., Buffalo, N. Y. Fire maker. No. 151,216; Jan. 24.
- Record Electrical Company Limited, The, Broadheath, Altrincham, England. Ammeters, voltmeters, ohmmeters, wattmeters, etc. No. 162,872; Dec. 26.
- Recordo Player Roll Company, Chicago, Ill. Music sheets for musical instrument players. No. 162,348; Dec. 12.
- Red Bird Malt & Hop Co. (See Francione, Raffaele.)
- Red "C" Oil Manufacturing Co., Baltimore, Md. Lubricating oils and greases, gasoline. No. 155,062; May 16.
- Red "C" Oil Mfg. Co., The, Baltimore, Md. Illuminating oils and gasoline. No. 162,873; Dec. 26.
- Red Dog Oil Company, Pittsburgh, Pa. Lubricating oils, gasoline, and crude oil. No. 158,784; Sept. 12.
- Red Gum Products Co. (See Cregar, Henry N.)
- Red River Lumber Company, The, Minneapolis, Minn. Lumber. No. 156,038; June 13.
- Red River Lumber Company, The, Minneapolis, Minn. Lumber. No. 156,039; June 13.
- Red River Lumber Company, The, Minneapolis, Minn., and Westwood, Calif. Pine, fir, and cedar lumber. No. 159,746; Oct. 3.
- Red Seal Rubber Manufacturing Co., Oklahoma, Okla. Inner-tube-repairing outfit. No. 153,512; Mar. 21.
- Red Star Milling Company, The, Wichita, Kans. Wheat flour. No. 152,258; Feb. 21.
- Red Star Milling Company, Wichita, Kans. Wheat flour. Nos. 159,489-90; Sept. 26.
- Red Star Milling Company, The, Wichita, Kans. Wheat flour. No. 162,871; Dec. 26.
- Red Sun Products Co. (See Goldman, Sigmund L.)
- Reddaway, F., & Co., Manchester, England, and New York, N. Y., assignor to Rossendale-Reddaway Belting & Hose Company, Woven machine belting. No. 21,346; renewed June 21, 1922.
- Reddaway, F., & Co., Manchester, England, assignor to F. Reddaway and Company Limited. Fire hose. No. 21,386; renewed June 28, 1922.
- Reddaway, F., & Co., Manchester, England, assignor to F. Reddaway and Company Limited. Machine belting. No. 21,538; renewed Aug. 2, 1922.
- Reddaway, F., and Company Limited. (See Reddaway, F., & Co., assignor.)

- Redfield Carbonating Company. (See Schulze, Charles W.)
 Redlich Manufacturing Company, Chicago, Ill. Puzzles. No. 157,434; Aug. 1.
 Redmond & Bramley Oil Co., Inc., New York, N. Y. Fuel for internal-combustion engines. No. 151,356; Jan. 31.
 Redondo Packing Corporation, Los Angeles, Calif. Beverages sold as soft drinks and sirups used in preparation of same. No. 159,639; Sept. 26.
 Redondo Packing Corp., Los Angeles, Calif. Table sauce. No. 160,801; Oct. 24.
 Redpath, Carzill W., Kansas City, Mo. Laxative. No. 158,286; Aug. 29.
 Reed & Carrick, Jersey City, N. J. Prepared food for infants and invalids. No. 159,747; Oct. 3.
 Reed, Howard, Marysville, Calif. Fresh pears and plums. No. 162,349; Dec. 12.
 Reed, Leon L., Marathon, N. Y. Corn plaster. No. 151,302; Jan. 24.
 Reed Roller Bit Co., Houston, Tex. Rotary drill bits, reamers, oil-well fishing tools, etc. No. 159,491; Sept. 26.
 Reeder, D. G., doing business as Reeder Manufacturing Company, Atlanta, Ga. Antiseptic deodorant powder. No. 158,064; Aug. 22.
 Reeder Manufacturing Company. (See Reeder, D. G.)
 Reeder, Eugene J., Philadelphia, Pa. Refined pharmaceutical compound rich in yeast vitamins, etc. No. 154,134; Apr. 4.
 Rees Davis Toy Company, Chicago, Ill. Dolls. No. 158,786; Sept. 12.
 Rees, Edmund E., Chicago, Ill. Game of indoor football. No. 161,272; Nov. 7.
 Rees, Fred, doing business as The Remo Mfg. Co., Meriden, Conn. Safety pins. Nos. 158,785; Sept. 12.
 Rees, Fred, doing business as The Remo Manufacturing Co., Meriden, Conn. Safety pins. No. 159,068; Sept. 19.
 Reese, J. L., Inc., Albany, N. Y. Maltless flavoring sirups used in the preparation of soft drinks. No. 158,065; Aug. 22.
 Reese, J. L., Inc., Albany, N. Y. Preserved fruits. No. 162,110; Dec. 5.
 Reeves Coal and Dock Co., Minneapolis, Minn. Coal. No. 160,641; Oct. 24.
 Reeves, Percy, Chicago, Ill. Cut-out dolls. No. 158,362; Aug. 29.
 Refino Company, The, Denver, Colo. Gasoline. No. 151,217; Jan. 24.
 Refino Company, The, Denver, Colo. Gasoline and fuel energizer. Nos. 151,922-3; Feb. 14.
 Reflexo Products Co. Inc., New York, N. Y. Talking machines and talking-machine needles, record repeaters, etc. No. 155,275; May 23.
 Regal Manufacturing Company, Knoxville, Tenn. Overalls. No. 150,532; Jan. 3.
 Regelson, Morris, New York, N. Y. Insecticides and destroyer for all insects. No. 153,832; Mar. 28.
 Regina Swimming Devices Co., New York, N. Y. Swimming or bathing devices comprising body-supporting floats. No. 160,951; Oct. 31.
 Registrometer Corporation, The, Buffalo, N. Y. Cloth-measuring machines. No. 154,369; Apr. 11.
 Reithaler, Louis M., Battle Creek, Mich. Trusses for hernia, shoulder braces, arch supports, and abdominal supporters. No. 152,964; Mar. 7.
 Reid, Alex F., & Sons, Inc., New York, N. Y. Roll-edge twine. No. 162,983; Dec. 26.
 Reid Bros., Inc., San Francisco, Calif. Certain medical appliances. No. 151,303; Jan. 24.
 Reid, Joseph, Gas Engine Company, Oil City, Pa. Gas engines and gas-engine parts. No. 162,874; Dec. 26.
 Reid, Murdoch & Co., Chicago, Ill. Cigars. Nos. 158,066-7; Aug. 22.
 Reid, Murdoch & Co., Chicago, Ill. Cigars. No. 158,523; Sept. 5.
 Reid, Murdoch & Co., Chicago, Ill. Grape juice. No. 158,787; Sept. 12.
 Reid, Murdoch & Co., Chicago, Ill. Root beer and ginger ale. No. 159,996; Oct. 10.
 Reid, Murdoch & Co., Chicago, Ill. Soaps and scouring powder designated cleaner. No. 162,350; Dec. 12.
 Reid, Murdoch & Co., Chicago, Ill. Ginger ale and root beer. No. 162,582; Dec. 19.
 Reid, T. J., Shoe Co., St. Louis, Mo. Shoes made of a combination of leather and fabric. No. 162,984; Dec. 26.
 Reilly, Lincoln L., Foxboro, Mass. Liquid compound for eliminating carbon and increasing power in gas engines. No. 150,533; Jan. 3.
 Reinig, John P., Buffalo, N. Y. Printed game sheet. No. 150,950; Jan. 10.
 Reins & Meiss, Cincinnati, Ohio. Hosiery. No. 154,667; Apr. 18.
 Reins & Meiss, Cincinnati, Ohio. Hosiery. Nos. 155,512-13; May 30.
 Reinschild Chemical Co., New York, N. Y. Tonics and blood-building preparations. No. 156,399; June 20.
 Reis, Robert, & Co., New York, N. Y. Running pants. No. 161,273; Nov. 7.
 Reiss-Premier Pipe Company, Chicago, Ill. Smoking pipes and cases for pipes. No. 156,491; June 20.
 Reiss-Premier Pipe Company, Chicago, Ill. Smoking pipes and cases for pipes. No. 160,642; Oct. 24.
 Reitman Mfg. Co., Chicago, Ill. Ready-to-make doll-clothes sets. No. 160,643; Oct. 24.
 Reliable Dry Goods Co. (See Brodinsky, David.)
 Reliable Electric Company, Chicago, Ill. Certain electrical supplies. No. 156,601; July 4.
 Reliable Household Specialties Manufacturing Company. (See Bernstein, Samuel.)
 Reliable Kiddy Wear Company, Inc., New York, N. Y. Baby bath robes, dresses, and bunting or wrap. No. 156,400; June 20.
 Reliable Knitting Works, Milwaukee, Wis. Knitted caps. No. 157,569; Aug. 8.
 Reliance Coal and Coke Co., Cincinnati, Ohio. Coal. No. 153,291; Mar. 14.
 Reliance Die and Stamping Company, Chicago, Ill. Punch presses. No. 157,279; July 25.
 Reliance Gauge Column Company, The, Cleveland, Ohio. Steam-boiler fittings and furnishings. No. 161,597; Nov. 14.
 Reliance Malt Products Company. (See Murphy, Mark J.)
 Reliance Manufacturing Company, Chicago, Ill. Work shirts. No. 154,668; Apr. 18.
 Reliance Manufacturing Company, Chicago, Ill. Boys' blouses, shirts, and playsuits. No. 155,807; June 6.
 Reliance Manufacturing Company, Chicago, Ill. Work shirts. No. 157,746; Aug. 15.
 Reliance Metal Spinning & Stamping Co. Inc., Brooklyn, N. Y. Ash receivers and trays. No. 158,060; Aug. 22.
 Reliance Metal Spinning & Stamping Co., Inc., Brooklyn, N. Y. Metal ware and metal culinary utensils. No. 159,492; Sept. 26.
 Reliance Milling Company, Murphysboro, Ill. Self-rising wheat flour. No. 153,292; Mar. 14.
 Remar Company, The, Oakland, Calif. Bakery products. No. 150,534; Jan. 3.
 Remar Company, The, Oakland, Calif. Cakes, candies, fruit preserves. No. 152,965; Mar. 7.
 Remer-Dell Products Corporation, The, Columbia, S. C. Beverages and sirups for making same. No. 156,682; July 11.
 Remind-O-Meter Company, The. (See Goodspeed, Charles A.)
 Remington Arms Company, Inc., Bridgeport, Conn.; Ilion and New York, N. Y., and Swanton, Vt. Cash registers and parts thereof. Nos. 155,063-4; May 16.
 Remington Arms Company, Inc., Bridgeport, Conn.; Ilion, N. Y.; Swanton, Vt.; and New York, N. Y. Pocket-knives and parts thereof. No. 159,493; Sept. 26.
 Remington Arms Company, Inc., Bridgeport, Conn.; Ilion, N. Y.; Swanton, Vt.; and New York, N. Y. Cash registers and parts thereof. Nos. 161,977-8; Nov. 28.
 Remington Salt Company, Ithaca, N. Y. Salt. No. 158,583; Sept. 5.
 Remington Salt Company, Ithaca, N. Y. Salt. Nos. 160,952-4; Oct. 31.
 Remington Typewriter Company. (See Wyckoff, Seamans and Benedict, assignors.)
 Remmers Soap Company, The, Cincinnati, Ohio. Soap. No. 159,494; Sept. 26.
 Remo Manufacturing Co., The. (See Rees, Fred.)
 Remy, Albert F., & Co., Mansfield, Ohio. Canned fruits, vegetables, fish, meat, oysters, catsup, and soup. No. 22,399; renewed Jan. 31, 1923.
 Renaud, Alice E., New York, N. Y. Hair tonic. No. 154,370; Apr. 11.
 Rendell, Moses R., New York, N. Y. Chemical composition for smelting purposes. No. 157,377; Aug. 1.
 Rennie, Robert W., Detroit, Mich. Dentifrices—namely, tooth paste. No. 151,930; Feb. 14.
 Re-Nu-M Manufacturing Co., St. Louis, Mo. Belt dressing. No. 157,747; Aug. 15.
 Renziehausen, Frederick C. (See Large, H., Jr., and Renziehausen.)
 Repetto, Angelo, Company, Detroit, Mich. Cement tiles for walls and floors. No. 155,923; June 13.
 Repp Orchard Products Co., Glassboro, N. J. Vinegar. No. 162,875. Dec. 26.
 Republic Box Co., Chicago, Ill. Bottle and packing boxes. No. 151,357; Jan. 31.
 Republic Motor Truck Co. Inc., Alma, Mich. Motor trucks and radiators, chassis, and bodies of same. No. 154,135; Apr. 4.
 Republic Rubber Corporation, The, Youngstown, Ohio. Shoe soles and heels made of rubber or composition rubber. No. 158,070; Aug. 22.
 Resolute Manufacturing Company, Chicago, Ill. Refrigerating systems. No. 153,833; Mar. 28.
 Ressler, Isidore, Detroit, Mich. Deodorant and disinfectant. No. 151,578; Feb. 7.
 Retsof Mining Company, New York, N. Y. Salt. No. 153,834; Mar. 28.
 Reusche, L., & Co., New York, N. Y. Paints, colors, enamels, etc. No. 150,951; Jan. 10.
 Reuter, Herman, Milwaukee, Wis. Make-up paste for undertakers. No. 155,351; May 23.
 Revere Motor Car Corporation, Logansport, Ind. Automobiles. No. 155,907; June 6.
 Revere Rubber Company, Boston, Mass., assignor to Revere Rubber Company. Rubber belting, hose, and packing. No. 20,848; renewed Mar. 15, 1922.
 Revere Rubber Company, Providence, R. I., and Chelsea, Mass. Machinery packing, composed of rubber and fabric. No. 159,997; Oct. 10.
 Rex Mineral Soap Company. (See Brignall, Guy E.)

Alphabetical list of registrants of trade-marks—Continued.

- Rex-Oil Company, Inc., The, Pittsburgh, Pa. Leather restorers and leather cleaners, polishes, and dressings. No. 150,952; Jan. 10.
- Reynier & Cie., assignor to Etablissements Reynier, Grenoble, France. Leather gloves. Nos. 156,040-2; June 13.
- Reynier & Cie., assignor to Etablissements Reynier, Grenoble, France. Leather gloves. Nos. 156,401-3; June 20.
- Reynier & Cie., assignor to Etablissements Reynier, Grenoble, France. Skin gloves. No. 157,186; July 25.
- Reynolds, Arthur T., Brooklyn, N. Y. Mattresses. No. 157,748; Aug. 15.
- Reynolds, C. W., New York, N. Y. Hydraulic jacks. No. 158,071; Aug. 22.
- Reynolds, Reginald, Riverside, Conn. Embroidery yarns and sewing threads. No. 159,998; Oct. 10.
- Reynolds, S. A., Kansas City, Mo. Tobacco products. No. 150,953; Jan. 10.
- Reynolds, Mrs. V. H., Bremerton, Wash. General tonic and blood purifier. No. 154,136; Apr. 4.
- Rhinol Co. Inc., New York, N. Y. Antiseptic powder for treatment of the nose and throat. No. 151,579; Feb. 7.
- Rhodes, Caxton P., San Francisco, Calif. Mouthpiece holders for tobacco products. Nos. 152,966-7; Mar. 7.
- Rhodes, James H., & Company, Chicago, Ill. House organ published every two months. No. 153,513; Mar. 21.
- Rhodes-Marden Corporation, The, New York, N. Y. Booklets and small text cards issued from time to time. No. 159,069; Sept. 19.
- Rhymer, Hiram B., Elmira, N. Y. Washing powder. No. 159,070; Sept. 19.
- Rhyme, Wayne F., Rome, Ga. General tonic. No. 151,580; Feb. 7.
- Riccius, Ruth B., Miami, Fla. Medicinal and pharmaceutical preparation, the same being a lotion for skin irritations. No. 154,137; Apr. 4.
- Ricco Company of America, The, Columbus, Ga. Non-alcoholic, maltless beverages. No. 150,954; Jan. 10.
- Rice, A. H., Company, Pittsfield, Mass. Threads and yarns of silk and artificial silk. No. 157,187; July 25.
- Rice & Adams Corporation, Buffalo, N. Y. Bottle, can, and dish washers, milk bottle fillers and cappers, etc. No. 150,955; Jan. 10.
- Rice & Hutchins, Incorporated. (See Rice & Hutchins, assignor.)
- Rice & Hutchins, Boston, Mass., assignor to Rice & Hutchins, Incorporated. Boots, shoes, and slippers. No. 20,581; renewed Jan. 12, 1922.
- Rice Products Co. Inc., New Orleans, La. Rice. No. 153,514; Mar. 21.
- Rice, Richard H., Coconut Grove, Fla. Fresh oranges, grapefruit, and tangerines. No. 157,749; Aug. 15.
- Rice-Stix Dry Goods Company, St. Louis, Mo. Hosiery. No. 151,218; Jan. 24.
- Rice-Stix Dry Goods Company, St. Louis, Mo. Veils and veillings in the piece. No. 153,835; Mar. 28.
- Rice-Stix Dry Goods Company, St. Louis, Mo. Women's frocks and dresses. No. 158,788; Sept. 12.
- Rice-Stix Dry Goods Company, St. Louis, Mo. Hosiery. No. 159,071; Sept. 19.
- Rice-Stix Dry Goods Company, St. Louis, Mo. Men's and boys' clothing. No. 161,598; Nov. 14.
- Rice's, Bernard, Sons, Inc., New York, N. Y. Silver hollow ware. No. 162,352; Dec. 12.
- Rich & France, Chicago, Ill. Brooms. No. 157,570; Aug. 8.
- Rich & France, Chicago, Ill. Brooms. No. 160,644; Oct. 24.
- Rich, George S., doing business as Geo. S. Rich Co., Boston, Mass. Silk, wool, cotton, silk and wool, linen, and worsted yarns. No. 159,999; Oct. 10.
- Rich Pump and Ladder Company, Cincinnati, Ohio. Ladders. No. 156,961; July 18.
- Rich-Sampler Knitting Mills Company, The, Cleveland, Ohio. Knitted woolen fabrics for outer garments in the piece. No. 153,836; Mar. 28.
- Rich-Sampler Knitting Mills Company, The, Cleveland, Ohio. Sartorial knitted fabrics of wool and woolen mixtures. No. 154,371; Apr. 11.
- Richard Hudnut, New York, N. Y. Cold cream. No. 152,601; Feb. 28.
- Richard Manufacturing Company, The, Marietta, Ohio, assignor, by mesne assignments, to Gould Manufacturing Company, Oshkosh, Wis. Wheeled riding toys. No. 152,487; Feb. 28.
- Richards, George C., Chicago, Ill. Plug cut-outs, electric-light sockets, and attachment plugs. No. 153,837; Mar. 28.
- Richards, James E., Company, The, Dayton, Ohio. Woven cotton textiles. No. 161,274; Nov. 7.
- Richards, John H., Omaha, Nebr. Folding cots, tables, and chairs for outdoor use. No. 162,353; Dec. 12.
- Richardson, A. J., Crafton-Borough, Pa. Preparation for the removal of superfluous hair. No. 158,072; Aug. 22.
- Richardson Company, The. (See Heppes-Nelson Roofing Company, The, assignor.)
- Richardson Corporation, Rochester, N. Y. Orange sirup used in making soft drinks. No. 150,536; Jan. 3.
- Richardson & De Long Bros., Philadelphia, Pa., assignor to The De Long Hook and Eye Company. Hooks and eyes for garments. No. 20,923; renewed Apr. 5, 1922.
- Richardson & De Long Bros., Philadelphia, Pa., assignor to The De Long Hook and Eye Company. Hooks and eyes. No. 21,076; renewed May 3, 1922.
- Richardson Dry Goods Co., St. Joseph, Mo. Ladies' neckwear. No. 150,535; Jan. 3.
- Richardson, R. M., & Co., San Francisco, Calif. Candy. No. 157,750; Aug. 15.
- Richardson, W. H., Baltimore, Md. Medicinal preparation for certain purposes. No. 150,537; Jan. 3.
- Riches, Piver & Co., Hillside township, Union Co., Elizabeth, N. J. Insecticides and fungicides. No. 152,622; Feb. 28.
- Richland Milling Company, Belleville, Ill. Hen and chick feed, laying mash, and corn meal. No. 151,924; Feb. 14.
- Richman, J., & Co., New York, N. Y. Cotton, silk, and cotton and silk piece goods. No. 157,751; Aug. 15.
- Richman, Newburger & Travers, New York, N. Y. Boys' and young men's suits. No. 154,669; Apr. 18.
- Richmond Lace Works, Alton, R. I. Lace in the piece. No. 162,876; Dec. 26.
- Richmond Mica Company, Inc., Richmond, Va. Mica. No. 151,304; Jan. 24.
- Richmond Sundry Company, Inc., Richmond, Va. Hair nets. No. 155,176; May 16.
- Richter, Robert, Reichenberg, Czechoslovakia. Artificial gems. No. 152,968; Mar. 7.
- Richter, Val, Washington, D. C. Shoes and slippers of leather, rubber, fabric, and combinations. No. 161,275; Nov. 7.
- Richy, Georges V., Paris, France. Sirup as a base for beverages. No. 154,138; Apr. 4.
- Rickenbacker Motor Company, Detroit, Mich. Automobiles. No. 154,670; Apr. 18.
- Ridenour Baker Grocery Company, Kansas City, Mo. Coffee. No. 153,616; Mar. 21.
- Ridenour-Baker Grocery Company, Kansas City, Mo. Tea. No. 156,043; June 13.
- Ridenour-Baker Grocery Company, Kansas City, Mo. Coffee. No. 157,188; July 25.
- Rider, S. A., Company, Chicago, Ill. Hair nets. No. 152,259; Feb. 21.
- Ridley, Frederick A., New York, N. Y. Paper for general printing and writing purposes and mailing envelopes. No. 153,515; Mar. 21.
- Riedel & Co., Inc., New York, N. Y. Medicinal preparation for use in gonorrhea and genito-urinary inflammations. No. 156,044; June 13.
- Riedel, J. D., Aktiengesellschaft, Berlin-Brandenburg, Germany. Potash salt of the cyan-mercury-salicylic acid. No. 151,416; Feb. 7.
- Rieder, Frank, & Sons, Philadelphia, Pa. Chairs. No. 151,925; Feb. 14.
- Rieser Company, The, New York, N. Y. Hair nets. No. 150,956; Jan. 10.
- Rieser Company, The, New York, N. Y. Powder puffs. No. 154,139; Apr. 4.
- Rieser Company, The, New York, N. Y. Soaps. No. 159,072; Sept. 19.
- Rieser Company, The, New York, N. Y. Soaps. No. 159,495; Sept. 26.
- Rieser Company, The, New York, N. Y. Hair nets. No. 159,748; Oct. 3.
- Rieser Company, The, New York, N. Y. Hair nets. No. 159,749; Oct. 3.
- Rifkin, A., & Company, Wilkes-Barre, Pa. Union suits of textile material. No. 162,111; Dec. 5.
- Riggs Chemical Laboratories, Orlando, Fla. Medicated powder for treatment of pyorrhea. No. 153,838; Mar. 28.
- Riker, Clarence B., New York, N. Y., assignor to The Sydney Ross Co. Cathartic pills. No. 22,572; renewed Feb. 28, 1923.
- Riker Company, The, Newark, N. J. Belt buckles. No. 161,599; Nov. 14.
- Riker Company, The, Newark, N. J. Belt buckles and buckles and clasps for shoes and slippers, embroidery and crochet needles, etc. No. 162,877; Dec. 26.
- Riley, W. E., & Company, Bristow, Okla. Hair restorer. No. 151,581; Feb. 7.
- Rimer, Orrseamies S., doing business as Sweetola Company, Dayton, Ohio. Powder preparation for use as a body deodorant. No. 160,955; Oct. 31.
- Rinaldo, Lawrence J., Saratoga Springs, N. Y. Imitation gems. No. 155,514; May 30.
- Rinciar, John, doing business as New York Extract & Perfumery Co., New York, N. Y. Hair tonic. No. 160,956; Oct. 31.
- Riner, Jesse A., Akron, Ohio. Certain chemical preparations. No. 150,538; Jan. 3.
- Ring, Fred C., doing business as The Ring Manufacturing Company, Kalamazoo, Mich. Spark plugs. No. 162,354; Dec. 12.
- Ring Manufacturing Company, The. (See Ring, Fred C.)
- Ringler, George, & Co., New York, N. Y. Nonintoxicating maltless beverage. No. 157,571; Aug. 8.
- Ringler, William A., Philadelphia, Pa. Card-filing systems. No. 156,404; June 20.
- Ringwalt Works, Inc., New Brunswick, N. J. Felt-base floor coverings. No. 161,276; Nov. 7.
- Rio Grande Oil Company, El Paso, Tex. Gasoline, kerosene, distillate, gas oil, fuel oil, etc. No. 162,351; Dec. 12.
- Rin Van Winkle Wall Bed Company, Oakland, Calif. Wall beds. No. 162,355; Dec. 12.
- Ripley George A., doing business as Ripley Shirt Manufacturing Company, Dallas, Tex. Men's dress shirts. No. 158,073; Aug. 22.

- Ripley Shirt Manufacturing Company. (See Ripley, George A.)
- Rippel Corporation, The. (See Schusterman, Samuel, assignor.)
- Rising, B. D. Paper Company, Housatonic, Mass. Cover papers and board. No. 153,384; Mar. 14.
- Rising, B. D. Paper Company, Housatonic, Mass. Bond, linen, ledger, Bristol, wedding, etc., papers generally. Nos. 154,840-2; May 9.
- Rising Sun Brewing Co., Elizabeth, N. J. Beverage sold as a soft drink. No. 160,803; Oct. 24.
- Rising Sun Brewing Co., Elizabeth, N. J. Beverage sold as a soft drink. No. 162,019; Nov. 28.
- Rite Form Corset Co., Inc., The, New York, N. Y. Corsets. No. 156,142; June 13.
- Rite Form Corset Co., Inc., The, New York, N. Y. Corsets. No. 159,073; Sept. 19.
- Rittenhouse, David L., Norristown, Pa., Skin-lotion. No. 151,582; Feb. 7.
- Ritter, Frank A., Detroit, Mich. Artificial limbs and members. No. 152,108; Feb. 14.
- Ritz-Carlton Mineral Water Co. Inc., New York, N. Y. Carbonated and lithiated water, ginger ale, etc. No. 155,515; May 30.
- Riva, Francisco G., Los Angeles, Calif. Automatic pistols. No. 152,969; Mar. 7.
- Rivalac Paint Company Inc., New York, N. Y. Ready-mixed coal-tar paints and coal-tar thinners, varnishers. No. 159,074; Sept. 19.
- River Nile Company, San Francisco, Calif. Nonalcoholic, maltless beverage similar to soda water. No. 152,039; Feb. 14.
- Riverside Baking Company, Inc., Harrisburg, Pa. Cakes, bread, and pastry. No. 159,641; Sept. 26.
- Riverside Boiler Works, Inc., Cambridge, Mass. Range boilers. No. 159,640; Sept. 26.
- Riverside & Dan River Cotton Mills, Inc., Danville, Va. Chambray and cheviots in the piece. No. 156,405; June 20.
- Riverside & Dan River Cotton Mills, Inc., Danville, Va. Chambray and cheviots in the piece. No. 157,572; Aug. 8.
- Rivoli Rubber & Novelty Co., New York, N. Y. Corsets, brassières, girdles, etc. No. 154,298; Apr. 4.
- Roach, W. R., & Co., Hart, Mich. Canned vegetables. No. 152,623; Feb. 28.
- Roach, W. R., & Co., Hart, Mich. Canned vegetables. No. 158,288; Aug. 29.
- Roanoke Candy Company, Inc., Roanoke, Va. Hard candy. No. 150,539; Jan. 3.
- Robbins, Charles H. D. Co. Inc., New York, N. Y. Women's dresses. No. 157,190; July 25.
- Robbins, Gamwell & Company, Pittsfield, Mass. Electric pipe machines. No. 156,742; July 11.
- Robb-Ross Co., Sioux City, Iowa. Food-flavoring extracts, peanut butter, vinegar, etc. No. 152,970; Mar. 7.
- "Robert." (See Denels, Robert.)
- Robert-Morton Company, The, San Francisco, Calif. Orchestral pipe organs. No. 161,277; Nov. 7.
- Roberts, Ella L., Los Angeles, Calif. Combination camisole and drawers. No. 158,074; Aug. 22.
- Roberts, G. G., Corporation, Whitman, Mass. Upholsterers' tacks. No. 155,065; May 16.
- Roberts, G. G., Corporation, Whitman, Mass. Carpet-laying tacks. No. 156,545; June 27.
- Roberts, H. C., Electric Supply Company, Philadelphia, Pa. Laundry washing machines. No. 155,276; May 23.
- Roberts, J. W., & Son Inc., Tampa Fla. Cigars, cigarettes, cheroots, tobacco. No. 152,321; Feb. 21.
- Roberts & Monroe, Inc., New York, N. Y. Force-feed lubricators. No. 150,957; Jan. 10.
- Roberts, W. C., Company, Indianapolis, Ind. Display cabinet for nuts and the like. Nos. 156,546-7; June 27.
- Roberts, Ward P., Milford, Mass. Cigars. No. 158,532; Sept. 5.
- Roberts, William, St. Louis, Mo. Certain medicinal preparations. No. 151,583; Feb. 7.
- Robertshaw Mfg. Co., Youngwood, Pa. Thermostats and certain thermostatic appliances. No. 151,401; Jan. 31.
- Robertson Candy Co., New York, N. Y. Fruit tablets and other candies. No. 152,973; Mar. 7.
- Robertson, H. H. Company, Pittsburgh, Pa. Certain construction materials. No. 153,293; Mar. 14.
- Robertson, J. T., Soap Company, The, Manchester, Conn., assignor to The Bon Ami Co. Soap and other cleaning and detergent preparations. No. 21,425; renewed July 5, 1922.
- Robertson Paper Co., Bellows Falls, Vt. Wrappers on waxed lunch rolls. No. 155,277; May 23.
- Robertson Shoe Company, Minneapolis, Minn. Ladies' leather slippers. No. 154,672; Apr. 18.
- Robeson Process Company, New York, N. Y. Liquid composition of matter employed as a treating and tanning agent. No. 155,352; May 23.
- Robeson, William A., doing business as Victory Coal & Ice Company, Saratoga Springs, N. Y. Composition for the treatment of fuel coal. No. 159,075; Sept. 19.
- Robin, Jules, & Co., Cognac, France. Brandy. No. 20,184; renewed Oct. 6, 1921.
- Robins, I. Simpson, Chicago, Ill. Rhubarb laxative medicinal preparation. No. 154,372; Apr. 11.
- Robins, Max, Chicago, Ill. Face powder. No. 151,584; Feb. 7.
- Robins, May, Fort Smith, Ark. Millinery and ladies' ready-to-wear garments. No. 157,191; July 25.
- Robinson, Donald. (See Tuttle, Sarah W., assignor.)
- Robinson, Eliza A., Fort Wayne, Ind. Medicine for coughs. No. 150,540; Jan. 3.
- Robinson, James S., Memphis, Tenn. Medicinal preparation for diseases of the liver, stomach, or bowels. No. 22,266; renewed Dec. 27, 1922.
- Robinson, Lettie C., doing business as Eastern Malt Products Co., Concord, N. Y. Malt sirup used as a food product. No. 158,289; Aug. 29.
- Robinson, Lorena W., Dallas, Tex. Truck bodies. No. 157,192; July 25.
- Robinson, M. W., Co., New York, N. Y. Nippers. No. 157,626; Aug. 8.
- Robinson-Rodgers Co. Inc., Newark, N. J. Certain bedding, cushions, bedsteads, upholstery, and bed springs. No. 155,516; May 30.
- Robinson-Rodgers Co. Inc., The, Newark, N. J. Mattresses, pillows, bolsters, and cushions. No. 157,752; Aug. 15.
- Robinson, Samuel H., Kansas City, Mo. Optical cases or conveyers. No. 151,219; Jan. 24.
- Robles, Dorothy M., Los Angeles, Calif. Children's frocks and rompers for outer wear. No. 158,075; Aug. 22.
- Robson & Bowen, New York, N. Y. Racing games. No. 158,789; Sept. 12.
- Rocchietta, Camillo, Finerolo, Italy. General tonic. No. 152,260; Feb. 21.
- Rocha, J., Bros., Washington, D. C. Olive oil. No. 150,541; Jan. 3.
- Rochester Stamping Company, Rochester, N. Y. Certain tableware. No. 151,585; Feb. 7.
- Rochester Stamping Company, Rochester, N. Y. Certain named tableware made wholly or in part of precious metal or plated therewith. No. 162,356; Dec. 12.
- Rochon, Mathilde, Washington, D. C. Hair dyes. No. 160,000; Oct. 10.
- Rock Bottom Stores, The. (See Federal Grocery Co.)
- Rockford Malleable Iron Works, Rockford, Ill. Iron and steel castings and forgings. No. 150,958; Jan. 10.
- Rockwell-Barnes Company, Chicago, Ill. Binders, blank books, clip boards, copy cloths, etc. No. 158,076; Aug. 22.
- Rockwell, Byrd C., Camden, Ark. Screen doors. No. 150,542; Jan. 3.
- Rockwell & Forester, Inc., Waterbury and Bridgeport, Conn. Hosiery. No. 161,600; Nov. 14.
- Rockwood Manufacturing Company, The, Indianapolis, Ind. Power-transmission pulleys. No. 162,878; Dec. 26.
- Roddenbery Bros., Cairo, Ga. Cane sirup. No. 154,805; May 9.
- Roddenbery Bros., Cairo, Ga. Pure Georgia cane sirup. No. 159,496; Sept. 26.
- Rodeheaver Company, The, Philadelphia, Pa., and Chicago, Ill. Phonograph records. No. 155,066; May 16.
- Rodenberg, M. S. Co., The, Providence, R. I. Mechanically-operated lead pencils. No. 159,497; Sept. 26.
- Rodger Publishing Company, Chicago, Ill. Trade magazine. No. 157,573; Aug. 8.
- Rodifer, Joseph A., Phoenix, Ariz. Women's and children's dresses and aprons. No. 154,673; Apr. 18.
- Roderer, Léon O., Reims, France. Champagne wine. No. 153,294; Mar. 14.
- Roesch, Anton, doing business as Mi Chemical Co., Chicago, Ill. Antiseptic healing oil. No. 160,001; Oct. 10.
- Roessel, Louis, & Co., Inc., New York, N. Y. Crêpe and broad silks in the piece. No. 152,972; Mar. 7.
- Roessel, Louis, & Co., Inc., New York, N. Y. Silks in the piece. No. 156,407; June 20.
- Roessel, Louis, & Co., Inc., New York, N. Y. Crêpe in the piece. No. 157,832; Aug. 15.
- Roethlisberger & Co., Inc., New York, N. Y. Cheese. Nos. 150,543-4; Jan. 3.
- Rogers Candy Company, Meridian, Miss. Candy. No. 162,171; Dec. 5.
- Rogers Candy & Ice Cream Co., Seattle, Wash. Candies. No. 151,926; Feb. 14.
- Rogers, Charles E., doing business as Rogers Drug Store, Geary, Okla. Foot powder. No. 160,957; Oct. 31.
- Rogers Construction Company, Gloucester City, N. J. Certain toys. No. 156,743; July 11.
- Rogers Drug Store. (See Rogers, Charles E.)
- Rogers, Enoch S., trading as E. S. Rogers Mfg. Co., Philadelphia, Pa. Children's three wheel propelling cars. No. 159,498; Sept. 26.
- Rogers, Francis J., Parkersburg, W. Va. Certain foods and ingredients of foods. No. 153,295; Mar. 14.
- Rogers, John B., Producing Company, Fostoria, Ohio. Quarterly periodical. No. 157,753; Aug. 15.
- Rogers, John W., Washington, D. C. Medicine used in the treatment of constipation and liver complaint. No. 154,767; May 2.
- Rogers, Karl H., Philadelphia, Pa. Pliable bendable doll. No. 158,524; Sept. 5.
- Rogers, Loyal D., Chicago, Ill. Series of bulletins. No. 152,040; Feb. 14.
- Rogers, Loyal D., Chicago, Ill. Laboratory apparatus. No. 155,067; May 16.
- Rogers, Lunt & Bowen Company, Greenfield, Mass. Certain named precious-metal ware. No. 161,601; Nov. 14.
- Rogers, M. H., Inc., New York, N. Y. Drapery and upholstery fabrics in the piece, couch covers, and rugs, etc. No. 162,879; Dec. 26.

Alphabetical list of registrants of trade-marks—Continued.

- Rogers Milk Corporation, New York, N. Y. Condensed and evaporated milk. No. 160,958; Oct. 31.
- Rogers Peet Company, New York, N. Y. Men's and boys' knitted underwear. No. 156,915; July 18.
- Rogers, Samuel C., and James S. Pearson, Buffalo, N. Y., assignor to The Huder Co. Mineral waters and other nonalcoholic drinks. No. 21,318; renewed June 21, 1922.
- Rogers, Simeon L. & George H., Company, Hartford, Conn. Silver-plated flat and hollow ware. No. 151,931; Feb. 14.
- Rogers & Thompson, New York, N. Y. Silk piece goods. No. 152,261; Feb. 21.
- Rogers Trunk Corporation, Petersburg, Va. Dress and wardrobe trunks. No. 159,080; Sept. 19.
- Rogers, Urbane E., Company, Dallas, Tex. Vegetable-oil soap. No. 159,566; Sept. 26.
- Rogers, W. H., Co., Chicago, Ill. Ladies' ready-to-wear clothing, petticoats, skirts, and bloomers. No. 159,076; Sept. 19.
- Roggen Bros. & Co., New York, N. Y. Dress and negligee shirts. No. 156,811; July 11.
- Rohe & Brother, New York, N. Y. Lard. No. 20,889; renewed Mar. 22, 1922.
- Rohe & Brother, New York, N. Y. Smoked pork products. No. 160,804; Oct. 24.
- Rohm & Haas Company, Philadelphia, Pa. Chemicals used in printing on indigo and vat dyes. No. 153,839; Mar. 28.
- Rohm & Haas Company, Philadelphia, Pa. Chemical used for the tanning of hides. No. 154,140; Apr. 4.
- Rohrer, Wayne L., Lancaster, Pa. Bottled milk. No. 160,002; Oct. 10.
- Roller Printing and Paper Co., The, Canton, Ohio. Blank paper and envelopes, paper tablets, shipping labels, etc. No. 162,113; Dec. 5.
- Rolling Red Stores Company, Inc., Chattanooga, Tenn. Trucks and truck bodies for driven or drawn vehicles. No. 160,003; Oct. 10.
- Roll-O-Racer Company, Inc., New York, N. Y. Game boards. No. 151,220; Jan. 24.
- Rolly Chemical Co., Hastings, Nebr. Soap flakes. No. 157,754; Aug. 15.
- Rolly Chemical Co., Hastings, Nebr. Chemical dirt solvent in the nature of a washing powder. No. 157,755; Aug. 15.
- Roloff, Georgia G., San Francisco, Calif. Nonmassage liquid mask. No. 154,373; Apr. 11.
- Roman Spark Plug Co., Rome, N. Y. Spark plugs. No. 151,402; Jan. 31.
- Rombro Brothers, Baltimore, Md. Work shirts. No. 157,193; July 25.
- Rome Brass & Copper Co., Rome, N. Y. Brass, bronze, and copper sheets, rods, rolls, etc. No. 154,450; Apr. 11.
- Rome Brass & Copper Co., Rome, N. Y. Anodes, commutator bars, and segments. No. 154,761; Apr. 18.
- Rome Brass & Copper Co., Rome, N. Y. Nonferrous metal, and tapered tubes, tubular metallic pipes, etc. No. 161,902; Nov. 21.
- Romeo y Julieta Cigar Factory. (See Alvarez, Inocencio, assignor.)
- Romeo y Julieta Cigar Company. (See Alvarez, Inocencio, assignor.)
- Romer Axe and Tool Company, Dunkirk, N. Y. Certain tools and cutlery. No. 156,045; June 13.
- Romero, Rafael, Tucson, Ariz. Candy. No. 158,287; Aug. 29.
- Roneo Limited, London, England. Filing cabinets, being office furniture. No. 155,808; June 6.
- Ronzoni Macaroni Company, Inc., Long Island City, N. Y. Alimentary paste products. No. 158,790; Sept. 12.
- Rook, James H., Co., Chicago, Ill. Gift boxes. No. 150,545; Jan. 3.
- Rookwood Pottery Company, The, Cincinnati, Ohio. Pottery ware. Nos. 155,517-19; May 30.
- Root, A. I., Company, The, Medina, Ohio. Honey. No. 151,927; Feb. 14.
- Root, Charles F., New York, N. Y. Lotion for dressing the hair. No. 157,574; Aug. 8.
- Root, Charles F., doing business as Suavoline Mfg. Co., New York, N. Y. Lotion for dressing the hair. No. 158,525; Sept. 5.
- Root Company, The, Bristol, Conn. Counting machines. No. 150,959; Jan. 10.
- Root, John R., Terre Haute, Ind. Brick for the wearing surface of road paving. No. 156,046; June 13.
- Roper, Geo. D., Corporation, Rockford, Ill. Gas ranges, plates, heaters, and stoves. No. 160,276; Oct. 17.
- Rose, Dwight C., Cambridge, Mass. Medicated confection useful in stimulating the process of digestion. No. 158,526; Sept. 5.
- Rose & Frank Co., New York, N. Y. Tissue paper mainly used for carbonizing purposes. Nos. 159,499-501; Sept. 26.
- Rose & Frank Co., New York, N. Y. Tissue paper mainly used for carbonizing purposes. No. 160,646; Oct. 24.
- Rose & Frank Co., New York, N. Y. Cloth for making typewriter ribbons. Nos. 161,602-5; Nov. 14.
- Rose & Frank Co., New York, N. Y. Typewriter cloth used for making typewriter ribbons and multigraph ribbons. No. 161,606; Nov. 14.
- Rose & Frank Co., New York, N. Y. Tissue paper mainly used for carbonizing purposes. No. 161,829; Nov. 21.
- Rose, J., & Co. Inc., New York, N. Y. Refrigerators. No. 155,068; May 16.
- Rose, James T., Huntington, W. Va. Certain articles of clothing. No. 152,262; Feb. 21.
- Rose, John F., Davenport, Iowa, assignor to Kil-Nock Company, Inc. Automatic adjusters for bearings for automobiles and other machinery. No. 156,744; July 11.
- Rosebud Mfg. Co., New York, N. Y. Dresses, petticoats, blouses, shirt waists, and aprons. No. 158,077; Aug. 22.
- Rosenau Bros. Inc., Philadelphia, Pa. Children's dresses, rompers, creepers, and suits. No. 159,077; Sept. 9.
- Rosenbaum, Tillie, New York, N. Y. Face lotion. No. 150,546; Jan. 3.
- Rosenberg Bros. & Co., Rochester, N. Y. Men's ulsters and overcoats. No. 155,809; June 6.
- Rosenberg Bros. & Co., Rochester, N. Y. Men's coats, vests, and pants. No. 157,575; Aug. 8.
- Rosenberg Bros. & Co., Rochester, N. Y. Men's coats, vests, and pants. No. 160,277; Oct. 17.
- Rosenberg & Chatillon, New York, N. Y. Ladies' silk underwear. No. 154,674; Apr. 18.
- Rosenberg, Frances, New York, N. Y. Ladies' bloomers, brassieres, step-ins, etc. No. 161,607; Nov. 14.
- Rosenberg, Morris, Los Angeles, Calif. Peanut butter, candy. No. 154,675; Apr. 18.
- Rosenblum, Abe, Brooklyn, N. Y. Potatoes, onions, apples, cabbages, turnips, beets, and carrots in their natural state. No. 151,928; Feb. 14.
- Rosendahl, Reynold W., Philadelphia, Pa. Devices for holding razor blades for stropping purposes. No. 155,069; May 16.
- Rosenfeld, E., & Co., Baltimore, Md. Night robes. No. 21,359; renewed June 28, 1922.
- Rosenfeld, E., & Company, assignor to Faultless Nightwear Corporation (E. Rosenfeld and Co.), Baltimore, Md. Night robes and sleeping garments. No. 160,278; Oct. 17.
- Rosenfeld, M. C., Company, doing business as Standard Malt Product Co., Boston, Mass. Malt extract. No. 158,078; Aug. 22.
- Rosenfeld, Adolph A., trading as N. M. T. A. Mfg. Co., New York, N. Y. Medicinal preparation for the treatment of the gums and teeth. No. 157,576; Aug. 8.
- Rosenfield, Simon D., Philadelphia, Pa. Sole-leather cut stock strips. No. 156,816; July 11.
- Rosenthal, A. S., New York, N. Y. Silk piece goods. No. 154,374; Apr. 11.
- Rosenthal, Bernard, Williamsport, Pa. Hose. No. 155,810; June 6.
- Rosenthal Bros. & Bendetson, Boston, Mass. Cigars. No. 155,070; May 16.
- Rosenthal-Ettinger, H. B., Co., New York, N. Y. Clothing, consisting of coats, trousers, overcoats, mackinaws, etc. No. 156,047; June 13.
- Rosenthal, Fleischer & Cie., Goppingen, Germany. Corsets, corset covers, bodices, etc. No. 157,756; Aug. 15.
- Rosenthal, Maurice, San Francisco, Calif. Cigars. No. 150,960; Jan. 10.
- Rosenthal, Maurice, San Francisco, Calif. Cigars. Nos. 152,488-9; Feb. 28.
- Rosenthal, Maurice, San Francisco, Calif. Cigars. No. 153,841; Mar. 28.
- Rosenthal, Maurice, San Francisco, Calif. Cigars. No. 156,406; June 20.
- Rosenwald & Weil Inc., Chicago, Ill. Men's, women's, and misses' overcoats, raincoats, suits, etc. No. 161,608; Nov. 14.
- Roseth Corporation, The, Brooklyn, N. Y. Garment-storage bags. No. 158,792; Sept. 12.
- Rosoff Sand & Gravel Corp., New York, N. Y. Washed sand and gravel. No. 160,283; Oct. 17.
- Rosol Laboratories, The, Philadelphia, Pa. Remedy for amenorrhea, leucorrhea, etc. No. 153,842; Mar. 28.
- Ross, Benjamin, Brooklyn, N. Y. Shoes and boots of leather. No. 158,793; Sept. 12.
- Ross, Sydney Co., The. (See Riker, Clarence B., assignor.)
- Rossano, G., & Bro., New York, N. Y. Olive oil. No. 157,757; Aug. 15.
- Rossendale-Reddaway Belting & Hose Company. (See Reddaway, F., & Co., assignor.)
- Rossendale-Reddaway Belting & Hose Co., The, Newark, N. J. Canvas belting. No. 160,647; Oct. 24.
- Ross-Gould Company, St. Louis, Mo. Filing receptacles. No. 150,547; Jan. 3.
- Rosslyn Packing Co., Rosslyn, Va. Hams, bacon, lard, frankfurters, sausage, pigs' feet. No. 154,676; Apr. 18.
- Rosslyn Packing Co., The, Rosslyn, Va. Hams, bacon, lard, frankfurters, etc. No. 159,213; Sept. 19.
- Rossville Company, The, Lawrenceburg, Ind. Alcoholic solvent. No. 151,932; Feb. 14.
- Rossville Company, The, Lawrenceburg, Ind. Liniment—that is, an alcoholic rub. No. 158,079; Aug. 22.
- Rotary Frocks, Inc. (See Little Duchess Dress Co., assignor.)
- Roth Bros. Piano Co., Inc., New York, N. Y. Upright and grand pianos and player pianos. No. 155,278; May 23.
- Roth, G. A., Manufacturing Co., Hastings, Nebr. Luggage carriers and commercial luggage standards. No. 152,973; Mar. 7.
- Roth, Otto, New York, N. Y. Cheese. No. 152,263; Feb. 21.

- Roth Shoe Manufacturing Company, The, Cincinnati, Ohio. Women's boots and shoes made of leather, fabric, rubber, or combinations. No. 161,609; Nov. 14.
- Rothenberg & Co., New York, N. Y. Floor covering. No. 155,520; May 30.
- Rothkopf, Morris, New York, N. Y. Knitted and textile underwear, shirts, etc. No. 154,677; Apr. 18.
- Rothschild & Sons, Kansas City, Mo. Combination sport shirt and drawers. No. 157,194; July 25.
- Rothstein, Aaron J., New York, N. Y. Mercerized and plain cotton thread. Nos. 160,805-6; Oct. 24.
- Rothstein, Aaron J., New York, N. Y. Mercerized and plain cotton thread. No. 161,026; Oct. 31.
- Rothstein, Harris W., trading as H. W. Rothstein & Co., Baltimore, Md. Men's suits. No. 157,577; Aug. 8.
- Rottenberg, Benjamin, trading as Baltic Chemical Co., New York, N. Y. Chemicals, medicines, and pharmaceutical preparations. No. 157,381; Aug. 1.
- Rounick, Max, Philadelphia, Pa. Hosiery. No. 161,610; Nov. 14.
- Roupine Manufacturing Co., Appleton, Wis. Medicinal remedy for bowel trouble of pigs and calves. No. 161,718; Nov. 14.
- Rous, Prosper, Neuilly-sur-Seine, France. Pharmaceutical products extracted from colonial plants. No. 154,375; Apr. 11.
- Rousis, G., San Francisco, Calif. Pop-corn crisps. No. 152,974; Mar. 7.
- Rouss Syrup Manufacturing Corp., also doing business as White Top Distributing Co., New York, N. Y. Ginger ale and a nonalcoholic maltless grape and apple drink. No. 162,583; Dec. 19.
- Roulette Company, Cincinnati, Ohio. Parlor game in the nature of roulette. No. 158,794; Sept. 12.
- Rowden, Mary E., trading as Mme. Leo Products Co., Seattle, Wash. Facial pack pastes. No. 160,279; Oct. 17.
- Rowe, Mable, Detroit, Mich. Hair tonic. No. 151,586; Feb. 7.
- Rowlett & Outland Medicine Co., Hamlin, Ky. Preparation for the treatment of scrofula. No. 161,278; Nov. 7.
- Roxford Knitting Company, Philadelphia, Pa. Worsteds, wool, artificial silk, or worsted and cotton. No. 154,376; Apr. 11.
- Roy, Amelia G., Nashua, N. H. Preparation sold in capsules for the treatment of headaches. No. 150,548; Jan. 3.
- Royal Baking Powder Company, Jersey City, N. J., and New York, N. Y. Baking powder. No. 150,549; Jan. 3.
- Royal Cocoa Co., Jersey City, N. J. Coffee, cocoa, and chocolate. No. 151,929; Feb. 14.
- Royal Easy Chair Corporation, Sturgis, Mich. Davenport. No. 159,078; Sept. 19.
- Royal Electrotype Company, Philadelphia, Pa. Electrotypes. No. 160,004; Oct. 10.
- Royal Exterminating Products, Inc., New York, N. Y. Insect exterminators. No. 161,279; Nov. 7.
- Royal Hat Co., The, New York, N. Y. Boys' and men's caps. No. 161,280; Nov. 7.
- Royal Ink & Mucilage Co., Pittsburgh, Pa. Writing fluid. No. 155,279; May 23.
- Royal Lemon Products Co., St. Paul, Minn. Washing powders. No. 162,584; Dec. 19.
- Royal Shirt Co., New York, N. Y. Dress, negligee, and work shirts. No. 156,048; June 13.
- Royal Worcester Corset Company, Worcester, Mass. Flap attachments for corsets. No. 159,214; Sept. 19.
- Royle Craven Company, Philadelphia, Pa. Bed sheets, pillowcases, and bolster cases. No. 157,036; July 25.
- Rozium Company, Atlanta, Ga. Lotion for the feet. No. 155,521; May 30.
- Rubber & Celluloid Products Company, Newark, N. J. Tooth, hand, nail, cloth, bath, hair, and leather brushes. No. 151,221; Jan. 24.
- Rubber & Celluloid Products Company, Newark, N. J. Parts of harness for horses. No. 151,222; Jan. 24.
- Rubber and Cements, Incorporated, Chicago, Ill. Certain named cements. No. 155,071; May 16.
- Rubber and Cements, Incorporated, Chicago, Ill. Ready-mixed paints. No. 154,377; Apr. 11.
- Rubber Process Corporation, Detroit, Mich. Rubber preservative. No. 157,382; Aug. 1.
- Rubber Products and Machinery Company, Los Angeles, Calif. Tire patches, reliners, shoes and vulcanizing kits. No. 154,145; Apr. 4.
- Rubberhide Company, Boston, Mass. Boots and shoes of a combination of leather, rubber, and fabric. No. 156,408; June 20.
- Rubberhide Company, Boston, Mass. Boots and shoes of a combination of leather, rubber, and fabric. No. 157,195; July 25.
- Rubberized Sheetting & Specialty Co. Inc., New York, N. Y. Household and nursery aprons. No. 155,177; May 16.
- Rubberized Sheetting & Specialty Co., Inc., New York, N. Y. Waterproof aprons. No. 158,795; Sept. 12.
- Rubberized Sheetting & Specialty Co., Inc., New York, N. Y. Sanitary belts. No. 158,796; Sept. 12.
- Rubberoid Co., The, New York, N. Y. Paints and varnishes. No. 154,378; Apr. 11.
- Rubln, Samuel, Mount Vernon, N. Y. Brassières. No. 157,833; Aug. 15.
- Rubino-Destafins Co., New York, N. Y. Table linen, bed linen, etc. No. 161,830; Nov. 24.
- Rubinstein, Barnett, St. Louis, Mo. Cloth and fabric holding and clamping devices. No. 162,453; Dec. 12.
- Rub-No-More Company, The, Fort Wayne, Ind. Soap and soap products. No. 150,550; Jan. 3.
- Rubon Wood Finishing and Products Co., Kansas City, Mo. Mops. No. 151,403; Jan. 31.
- Rubon Wood Finishing and Products Co., Kansas City, Mo. Mops. No. 154,141; Apr. 4.
- Rubon Wood Finishing and Products Co., Kansas City, Mo. Dusters. No. 154,142; Apr. 4.
- Rub-Tex Products Inc., Indianapolis, Ind. Electric-storage-battery boxes and parts thereof. No. 151,587; Feb. 7.
- Ruckel, John F., doing business as Noxaboil Laboratories, Chicago, Ill. Medicinal preparation for the treatment of boils, pimples, abscesses, etc. No. 159,752; Oct. 3.
- Rueckheim Bros. & Eckstein, Chicago, assignor to The Cracker Jack Co., Peoria, Ill. Chocolate bars. No. 158,290; Aug. 29.
- Rugby Knitting Mills, Buffalo, N. Y. Knitted coats and sweaters. No. 162,114; Dec. 5.
- Ruge, Herman & Sons, Apalachicola, Fla. Fish, oysters, and other shell fish packed in tin and glass. No. 21,863; renewed Oct. 11, 1922.
- Rundle, George H., Company, The, Piqua, Ohio. Certain medicinal preparation. No. 157,383; Aug. 1.
- Runner, Earle L., doing business as The Clayton Pharmaceutical Co., Wheeling, W. Va. Certain medicinal preparation. No. 160,280; Oct. 17.
- Runyan, Arthur L., Omaha, Neb., assignor to The Anchor Grip-Heel Company, Willoughby, Ohio. Resilient heels for footwear. No. 157,196; July 25.
- Ruocco, Salvator, New York, N. Y. Medicine used in the treatment of pneumonia. No. 155,811; June 6.
- Rupp, William, Newark, N. J., assignor to Sugola Company of New Jersey, Orange, N. J. Baker's malt sirup for food purposes. No. 160,648; Oct. 24.
- Russell, Frank, doing business as Knobby Products Co., New York, N. Y. Pickles. No. 160,649; Oct. 24.
- Russell & Gilbert Co., Portland, Oreg. Candy. No. 152,975; Mar. 7.
- Russell, Herbert S., Pembroke, Mass. Phonograph-record disks. No. 161,281; Nov. 7.
- Russell Manufacturing Company, The, Middletown, Conn. Automobile brake lining. No. 152,976; Mar. 7.
- Russell Manufacturing Company, The, Middletown, Conn. Ladies' dress belting. No. 153,516; Mar. 21.
- Russell Manufacturing Company, The, Middletown, Conn. Suspenders. No. 160,005; Oct. 10.
- Russell Miller Milling Co., Minneapolis, Minn. Wheat flour. No. 152,977; Mar. 7.
- Russell Playing Card Co., Milltown, N. J., and New York, N. Y. Playing cards. Nos. 154,143-4; Apr. 4.
- Russell, Robert C., Pittsburgh, Pa. Indexes. Nos. 162,172-3; Dec. 5.
- Russell Stover Company, assignor to Eskimo Pie Corporation, Chicago, Ill. Ice cream and ice cream covered with chocolate. No. 162,585; Dec. 19.
- Russell, William L., Baltimore, Md. Medicinal preparation for eczema and other skin diseases. No. 159,753; Oct. 3.
- Rust Engineering Company, The, Baltimore, Md., and Washington, D. C. Brick and concrete chimneys and brick settings for boilers. No. 156,049; June 13.
- Ruthrauff, W. M., Company, Philadelphia, Pa. Dentifrice. No. 155,812; June 6.
- Rutkay, Michael, Philadelphia, Pa. Medicine for asthma. No. 151,588; Feb. 7.
- Rutland Fire Clay Co., Rutland, Vt. Plastic stove lining. No. 152,978; Mar. 7.
- Rutland Fire Clay Co., Rutland, Vt. Water-glass egg preserver. No. 155,813; June 6.
- Rutland Fire Clay Co., Rutland, Vt. Liquid stove and metal polishes, enamel and waste-pipe cleaners. No. 157,758; Aug. 15.
- Rutland Fire Clay Co., Rutland, Vt. Crack filler, stove pipe enamel, asphalt roof paint, etc. No. 159,079; Sept. 19.
- Rutland Fire Clay Co., Rutland, Vt. Patching plaster for walls. No. 159,754; Oct. 3.
- Rutland Fire Clay Co., Rutland, Vt. Boiler covering. No. 160,281; Oct. 17.
- Rutland Fire Clay Co., Rutland, Vt. Stove and boiler putty. No. 160,650; Oct. 24.
- Rutland Fire Clay Co., Rutland, Vt. Certain cements. No. 160,651; Oct. 24.
- Rutland Fire Clay Co., Rutland, Vt. Water-glass egg preserver. No. 161,831; Nov. 21.
- Rutland Fire Clay Co., Rutland, Vt. Patching plaster for walls, liquid roof cement, plastic roofing cement, etc. No. 161,832; Nov. 21.
- Rutland Fire Clay Co., Rutland, Vt. Liquid stove polish, metal polish, enamel cleaner, and waste-pipe cleaner. No. 162,586; Dec. 19.
- Ryan, Allan C., doing business as The American Crucible Products Company, Elyria, Ohio. Aluminum alloys. No. 162,115; Dec. 5.
- Ryan-Cushing Company, Boston, Mass. Leather handbags. No. 152,490; Feb. 28.
- Ryan, Frank, trading as Oriole Belt Dressing Co., Baltimore, Md. Belt dressing. No. 162,357; Dec. 12.
- Ryan, Lillian G., New York, N. Y. Cold cream. No. 161,282; Nov. 7.

Alphabetical list of registrants of trade-marks—Continued.

- Ryan, Matthew W., New York, N. Y. Cotton piece goods. No. 157,435; Aug. 1.
- Ryan, Thomas W., Concord Junction, Mass. Bail cocks. No. 155,353; May 23.
- Rycroft, W. W., & Co., New York, N. Y. Cotton piece goods. No. 150,551; Jan. 3.
- Ryder, Herbert, Co., The (not incorporated), Chicago, Ill. Show-window display fixtures and parts thereof. No. 159,502; Sept. 26.
- Ryley, C. L., Coal Company, Lexington, Ky. Coal. No. 151,223; Jan. 24.
- Rytex Company, The, Indianapolis, Ind. Boxed stationery. No. 162,587; Dec. 19.
- S & G Manufacturing Company, Stockton, Calif. Water circulator for internal-combustion engines. No. 152,499; Feb. 28.
- S & G Manufacturing Co., Stockton, Calif. Fuel vaporizers. No. 162,880; Dec. 26.
- S. O. S. Ignition Company, Brooklyn, N. Y. Spark intensifiers for internal-combustion engines. No. 155,838; June 6.
- S & S Shirt Company, The, Philipsburg, Pa. Overalls. No. 156,814; July 11.
- Snab, Alexander N., New York, N. Y. Batiste lingerie. No. 158,797; Sept. 12.
- Sabatella, Antonio, Curitiba, Paraná, Brazil. Medicine for treatment of rheumatism and arthritis. No. 150,552; Jan. 3.
- Sabel & Balch, Chicago, Ill. Dust caps for tire valves. No. 159,503; Sept. 26.
- Sachem Manufacturing Company, Inc., Brockton, Mass. Toys. No. 156,916; July 18.
- Sachs, George M., New York, N. Y. Prepared business charts. No. 153,517; Mar. 21.
- Sachs, George M., New York, N. Y. Prepared business charts. No. 154,146; Apr. 4.
- Sachs Shoe Manufacturing Company, The, Cincinnati, Ohio. Shoes. No. 154,678; Apr. 15.
- Sachs Shoe Manufacturing Company, The, Cincinnati, Ohio. Shoes. No. 157,197; July 25.
- Sackerman, Louis F., Baltimore, Md. Watches and clocks. No. 151,589; Feb. 7.
- Sackman Brothers Company, New York, N. Y. One and two piece overalls and rompers. No. 152,491; Feb. 28.
- Safandshur Chemical Co., Inc., New York, N. Y. Fire-extinguisher fluid. No. 156,971; July 18.
- Safchik & Company, New York, N. Y. Certain articles of clothing. No. 150,553; Jan. 3.
- Safe Cabinet Company, The, Marietta, Ohio. Safes. No. 160,112; Oct. 10.
- Safety Car Heating and Lighting Company, The, New York, N. Y. Lamps. No. 20,678; renewed Feb. 2, 1922.
- Safety Equipment Service Company, The, Cleveland, Ohio. Cloth and canvas leggings and boots. No. 151,224; Jan. 24.
- Safety-ette Razor Company. (See White, J. Loren.)
- Saffert-Gugisberg Cement Construction Co., New Ulm, Minn. Silos. No. 152,624; Feb. 28.
- Sagan, Jurko, Yorklyn, Del. Salve for cuts, wounds, and bruises and a general medicinal tonic. No. 150,554; Jan. 3.
- Sail-Me Co., Evanston, Ill. Toy airplanes. No. 153,843; Mar. 28.
- Sainberg & Co. Inc., New York, N. Y. Paper-supporting pads for writing purposes. No. 161,833; Nov. 21.
- St. Albans Grain Company, St. Albans, Vt. Poultry feeds, molasses horse feed and dairy feed, etc. No. 152,077; Feb. 14.
- St. Albans Grain Company, St. Albans, Vt. Poultry, horse, and other feeds. No. 159,534; Sept. 26.
- St. John Brothers Co. Inc., New York, N. Y. Piece-dyed fabrics. No. 159,767; Oct. 3.
- St. John, Frank, Minneapolis, Minn. Film cement. No. 153,324; Mar. 14.
- St. Joseph Tent & Awning Co., St. Joseph, Mo. Firemen's heavy duck night coats, duck night pants, hunting coats, and white-duck packers' frocks. No. 158,106; Aug. 22.
- St. Lawrence Boat Works, Inc., Ogdensburg, N. Y. Skiffs, rowboats, and canoes. Nos. 160,685-6; Oct. 24.
- St. Louis Brass Mfg. Co., St. Louis, Mo. Electric-lighting fixtures. No. 158,548; Sept. 5.
- St. Louis Coffee & Spice Mills, St. Louis, Mo. Coffee. No. 156,764; July 11.
- St. Louis Pump & Equipment Company, St. Louis, Mo. Pumps for oil and other fluids. No. 155,180; May 16.
- St. Louis Pump & Equipment Company, St. Louis, Mo. Fluid-measuring pumps and meters. No. 157,287; July 25.
- St. Louis Pump & Equipment Company, St. Louis, Mo. Storage receptacles for oil and other liquids. No. 159,645; Sept. 26.
- St. Mungo Manufacturing Company of America, Newark, N. J. Golf balls. No. 156,434; June 20.
- St. Paul Milling Co., The, St. Paul, Minn. Wheat flour. No. 162,881; Dec. 26.
- Saks & Company, New York, N. Y. Women's hats. No. 157,198; July 25.
- Saks and Company, New York, N. Y. Men's and boys' suits and overcoats. No. 158,798; Sept. 12.
- Saks & Company, New York, N. Y. Women's hats. No. 162,020; Nov. 28.
- Sala, Antenor, Mexico, Mexico. Medicinal preparation for malaria. No. 153,844; Mar. 28.
- Sal-Cura Co., The, New York, N. Y. Salve for treatment of inflammatory ailments. No. 155,815; June 6.
- Salem Foundry and Machine Works, Inc., Salem, Va. Flour-mill machinery. No. 160,113; Oct. 10.
- Salenius, Ellen M., Sundberg, Stockholm, Sweden. Liquid separators and churns. No. 155,816; June 6.
- Salisbury, W. H., & Company, Incorporated, Chicago, Ill. Rubber tiling for floors. No. 160,653; Oct. 24.
- Sall Mountain Company, Chicago, Ill. Asbestos pipe covering. No. 160,282; Oct. 17.
- Salomon Stern Ltd., London, England. Combinations, bodices, nightdresses, etc. No. 156,409; June 20.
- Salomon Stern Ltd., of America, New York, N. Y. Hosiery. No. 159,215; Sept. 19.
- Salomon & Weiner, Inc., New York, N. Y. Unmanufactured fur. No. 160,654; Oct. 24.
- Salsburg Refining Company, Ltd., Lauderdale, La. Sugar, table, and cooking sirups, and molasses. No. 152,492; Feb. 28.
- Salsburg Refining Company, Ltd., Lauderdale, La. Sugar, syrups, and molasses. No. 154,679; Apr. 18.
- Salt, Sir Titus, Bart., Sons & Company, Ltd., Saltaire, England, and Bridgeport, Conn., assignor to Salt's Textile Manufacturing Company. Plushes. No. 21,396; renewed June 28, 1922.
- Salt, Sir Titus, Bart., Sons & Company, Ltd., Saltaire, England, and Bridgeport, Conn., assignor to Salt's Textile Manufacturing Company. Silk plush. No. 21,453; renewed July 12, 1922.
- Saltrates, Limited, London, England. Bath salts. No. 161,611; Nov. 14.
- Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece. No. 158,291; Aug. 29.
- Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Women's, children's, and infants' coats, cloaks, wraps, capes, suits, etc. No. 160,284; Oct. 17.
- Salt's Textile Manufacturing Company, Bridgeport, Conn., and New York, N. Y. Women's, children's, and infants' coats, cloaks, wraps, suits, etc. No. 161,283; Nov. 7.
- Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece. No. 161,284; Nov. 7.
- Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Women's, children's, and infants' coats, cloaks, wraps, capes, suits, costumes, etc. No. 161,612; Nov. 14.
- Salt's Textile Manufacturing Company. (See Salt, Sir Titus, Bart., Sons & Company, assignor.) (Renewal.)
- Saltzman, Maurice, New York, N. Y. Ladies' hats. No. 156,410; June 20.
- Saltzman, Maurice, New York, N. Y. Ladies' hats. No. 157,578; Aug. 8.
- Salvo, Alfred L., Augusta, Ga. Flying toy. No. 156,917; July 18.
- Salz Brothers, New York, N. Y. Fountain pens. No. 155,280; May 23.
- Samek & Lobel, New York, N. Y. Ladies' silk undergarments, negligees, and corsets. No. 161,285; Nov. 7.
- Samos Cigarette & Tobacco Co., Inc., New York, N. Y. Cigars, cigarettes, tobacco. No. 155,072; May 16.
- Samoset Chocolates Company, Boston, Mass. Candy. No. 151,404; Jan. 31.
- Samoset Chocolates Company, Boston, Mass. Chocolate candy. No. 151,933; Feb. 14.
- Samoset Chocolates Company, Boston, Mass. Candy. No. 153,296; Mar. 14.
- Samoset Chocolates Company, Boston, Mass. Candy. No. 160,655; Oct. 24.
- Samoset Chocolates Company, Boston, Mass. Candy. No. 162,358; Dec. 12.
- Samoset Cotton Mills, Talladega, Ala. Cotton denims in the piece. No. 162,882; Dec. 26.
- Sampson, Gertrude I., doing business as Ambercruce Products Co., Philadelphia, Pa. Preparation for the treatment of the hair and scalp. No. 160,959; Oct. 31.
- Samson Cordage Works, Boston, Mass. Cord and twine. No. 155,073; May 16.
- Samson Cordage Works, Boston, Mass. Twine. No. 161,613; Nov. 14.
- Samson, Edgar, doing business as Dyatome Laboratories, New York, N. Y. Preparation for coloring and tinting fabrics and the like. No. 161,286; Nov. 7.
- Samson Tobacco Company Incorporated, The, Glasgow, Ky. Twist and granulated smoking tobacco. No. 152,979; Mar. 7.
- Samstag & Hilder Bros., New York, N. Y. Toothbrushes. No. 151,225; Jan. 24.
- Samstag & Hilder Bros., New York, N. Y. Wire hairpins. No. 151,934; Feb. 14.
- Samstag & Hilder Bros., New York, N. Y. Talcum powder. No. 152,264; Feb. 21.
- Samstag & Hilder Bros., New York, N. Y. Hair nets. No. 152,980; Mar. 7.
- Samstag & Hilder Bros. Inc., New York, N. Y. Hair nets. No. 153,297; Mar. 14.
- Samstag & Hilder Bros., New York, N. Y. Hair nets. No. 154,379; Apr. 11.

- Samstag & Hilder Bros. Inc., New York, N. Y. Women's and children's elastic garters. No. 154,680; Apr. 18.
- Samstag & Hilder Bros., New York, N. Y. Safety pins. No. 155,817; June 6.
- Samstag & Hilder Bros., New York, N. Y. Hair nets. No. 157,759; Aug. 15.
- Samstag & Hilder Bros., New York, N. Y. Scissors. No. 158,292; Aug. 29.
- Samuel Ach Co., Inc., The, Cincinnati, Ohio. Caps and hoods. No. 161,287; Nov. 7.
- Samuels, Albert S., Co., The, San Francisco, Calif. Finger rings and precious-metal ware. Nos. 159,081-2; Sept. 19.
- Samuels, M., & Co., Baltimore, Md. Leather, rubber, and fibrous boots, shoes, and slippers. No. 157,280; July 25.
- San Antonio Beverage Syrup Co., San Antonio, Tex. Maltless, nonintoxicating beverage and sirup for making same. No. 155,281; May 23.
- San Antonio Drug Co., San Antonio, Tex. Toothbrushes, cloth, hand, hair, and shaving brushes. No. 152,493; Feb. 28.
- San Antonio Drug Co., San Antonio, Tex. Toilet tweezers and finger-nail files. No. 152,981; Mar. 7.
- San Antonio Drug Co., San Antonio, Tex. Waxed, wrap ping, crepe, tissue, and toilet paper. No. 155,080; Aug. 22.
- San Antonio Drug Co., San Antonio, Tex. Allspice, licorice, milk, sugar, tea, etc. No. 159,504; Sept. 26.
- San Antonio Machine & Supply Company, San Antonio, Tex. Internal-combustion engines. No. 150,961; Jan. 10.
- San Aprove Company, The, Detroit, Mich. Tooth paste. No. 156,411; June 20.
- Sanborn, George W., & Sons, Astoria, Oreg. Canned salmon. No. 152,494; Feb. 28.
- Sander, Wieler & Co., Hamburg, Germany. Carbon blacks and paint pigments. No. 159,755; Oct. 3.
- Sandler Bros. Baking Co., Baltimore, Md. Pretzels, ice-cream cones, and cake. No. 162,983; Dec. 26.
- Sandman, Otto H., Brooklyn, N. Y. Carbon papers and typewriter ribbons. No. 155,908; June 6.
- Sandow Tool Co. U. S. A., New York, N. Y. Metal shoe shanks. No. 160,656; Oct. 24.
- Sands, Tollef, Tacoma, Wash. Tooth powder. No. 152,265; Feb. 21.
- Sandvikens Jernverks Aktiebolaget, Sandviken, Sweden. Iron and steel bars, bands, and wire. No. 153,845; Mar. 28.
- Sandvikens Jernverks Aktiebolag, Sandviken, Sweden. Articles of iron and steel manufacture. Nos. 158,293-4; Aug. 29.
- Sandvikens Jernverks Aktiebolag, Sandviken, Sweden. Springs for general use. No. 162,464; Dec. 19.
- Sanford Mills, Sanford, Me., and Boston, Mass. Pile fabrics made wholly or in part of hair or wool. No. 159,756; Oct. 3.
- Sanford Pen Company, Inc., Brooklyn, N. Y. Stylographic pens. No. 154,843; May 9.
- Sanford Spinning Company, Fall River, Mass. Cotton yarn. No. 21,745; renewed Sept. 13, 1922.
- San Francisco Breweries Ltd., The, San Francisco, Calif. Nonalcoholic maltless soft drinks. No. 162,359; Dec. 12.
- San Francisco Sulphur Co., San Francisco, Calif. Sulphur having insecticidal properties. No. 155,813; June 6.
- Sanger Brothers Inc., Dallas, Tex., and New York, N. Y. Shoes for children, made of leather. No. 151,935; Feb. 14.
- Saniklene Chemical Co., The, Akron, Ohio. Cleaning preparation. No. 152,982; Mar. 7.
- Sanitant Manufacturing Company, Inc., New York, N. Y. Vaginal douches. No. 152,983; Mar. 7.
- Sanitarium Equipment Company, Battle Creek, Mich. Hospital equipment. No. 161,719; Nov. 14.
- Sanitary Cup & Specialty Co. (See Wyle, Jerome.)
- Sanitary Dish Washing Machine Company, Milwaukee, Wis. Dish-washing machines. No. 152,495; Feb. 28.
- Sanitary Products Corporation of America, Philadelphia, Pa. Paper luncheon sets. No. 157,199; July 25.
- Sanitary Slicker Company, New York, N. Y. Hairbrushes. No. 152,625; Feb. 28.
- Sanitas Company Inc., The, Jersey City, N. J., and Brooklyn, N. Y. Certain pharmaceutical and toilet preparations. No. 151,590; Feb. 7.
- Sanitation Corporation, The, Jersey City, N. J., and New York, N. Y. Sanitation-process sewage-treatment systems and parts thereof. No. 151,592; Feb. 7.
- Sanitation and Supply Company, The, New York, N. Y. Liquid compound for cleaning wood, metal, painted, and similar surfaces. No. 150,555; Jan. 3.
- Sanitax Brush Company, Chicago, Ill. Brushes. No. 156,412; June 20.
- Sankey, Charles H., London, England. Fire cement. No. 159,757; Oct. 3.
- San Marcos Pedigreed Cotton Company, San Marcos, Tex. Cotton seed for planting purposes. No. 160,006; Oct. 10.
- Sanozym Incorporated, New York, N. Y. Dentifrice in the form of a paste, wash, or powder. No. 154,380; Apr. 11.
- Santa Clara Valley Canning Co., San Jose, Calif. Canned fruits and vegetables. No. 153,298; Mar. 14.
- Santa Clara Valley Canning Co., San Jose, Calif. Canned fruits and vegetables. No. 154,681; Apr. 18.
- Santalucia, Samuel, Waterbury, Conn. Rubber heels. No. 159,083; Sept. 19.
- San Telmo Cigar Manufacturing Company, Detroit, Mich. Cigars. No. 153,846; Mar. 28.
- Santerba Perfumery Manufacturer Inc., New York, N. Y. Maltless sirups for use in nonalcoholic beverages. No. 155,074; May 16.
- Santerba Perfumery Manufacturer Inc., New York, N. Y. Certain medicinal preparation. No. 159,084; Sept. 19.
- Santoni & Company, Limited, New York, N. Y. Canned and fresh fruits, coffee, etc. No. 154,682; Apr. 18.
- Saperston Manufacturing Co., The, Chicago, Ill. Arch supports. No. 159,505; Sept. 26.
- Saphanol Products Company, Indianapolis, Ind. Germicide and antiseptic. No. 155,522; May 30.
- Sappington, J. W., doing business as The Two & Three Quarters Company, Fort Worth, Tex. Nonalcoholic malt cereal beverage sold as soft drink. No. 158,081; Aug. 22.
- Sarasqueta, Victor, Elbar, Spain. Hunting guns. No. 157,281; July 25.
- Sardeau, Hélène, New York, N. Y. Dolls. No. 158,799; Sept. 12.
- Sargent Piano Company, The, Cincinnati, Ohio. Pianos and player pianos. No. 162,985; Dec. 26.
- Sargent Shoe Company, Lynn, Mass. Shoes. No. 159,216; Sept. 19.
- Sargoy Bros., Brooklyn, N. Y. Washboilers. No. 158,528; Sept. 5.
- Sassafras Eye Lotion Co., Mauch Chunk, Pa. Eye lotion. No. 20,890; renewed Mar. 22, 1922.
- Satr, Abdul, Burgettstown, Pa. Blood-purifying medicine. No. 151,936; Feb. 14.
- Saunders, James R., Chicago, Ill. Soap. No. 162,360; Dec. 12.
- Sauquoit Toilet Paper Co., Inc., New Hartford, N. Y. Toilet paper. No. 162,588; Dec. 19.
- Savage, Henry W., Jensen, Fla. Citrus fruits and pineapples. No. 162,884; Dec. 26.
- Savannah Baking Company, Savannah, Ga. Cakes. No. 161,903; Nov. 21.
- Savannah Beverage & Ice Co., Savannah, Ga. Nonalcoholic, noncereal, maltless beverages and sirups therefor. No. 155,075; May 16.
- Savem Economy Products Co., Boston and East Boston, Mass. Compound for the treatment of fabrics after washing. No. 153,847; Mar. 28.
- Savi, Paul A., Boston, Mass. Boots and shoes of leather, rubber, fabric, etc. No. 158,800; Sept. 12.
- Savory, H. L., and Company. (See Savory, Harry L., assignor.)
- Savory, Harry L., deceased; R. Shurey, executor, assignor to H. L. Savory and Company, Limited, London, England. Cigarettes. No. 156,918; July 18.
- Sawyer Belt Hook Co. (See Sawyer, John D.)
- Sawyer, H. M., & Son, East Cambridge, Mass. Knitted coats, jackets, and vests for men, women, and children. No. 160,285; Oct. 17.
- Sawyer, John D., doing business as Sawyer Belt Hook Co., Pawtucket, R. I. Belt hooks. No. 159,506; Sept. 26.
- Sawyer, John W., Afton, Okla. Medicine for certain named purposes. No. 154,147; Apr. 4.
- Saxe, Alexander, New York, N. Y. Tooth, face, nail, and bath brushes. No. 161,979; Nov. 28.
- Saxony Mills, St. Louis, Mo. Wheat flour. No. 159,507; Sept. 26.
- Say Drug Products Co. (See Branower, George I.)
- Saylor's Chocolates, Inc., Miss, Alameda, Calif. Candy and chocolates. No. 154,683; Aug. 18.
- Scanlon, Michael B., doing business as Erie Flour Company, Buffalo, N. Y. Hard-wheat flour. No. 160,007; Oct. 10.
- Scardone, Charles, New Field, N. J. Firecrackers. No. 152,984; Mar. 7.
- Schacht, Hyman, New Rochelle, N. Y. Relishes. No. 154,684; Apr. 18.
- Schadewald, Henry M., Philadelphia, Pa. Haircloth. No. 156,413; June 20.
- Schaedler, John M., Sacramento, Calif. Drink mixers. No. 153,848; Mar. 28.
- Schaefer, Estate of Joseph J., deceased, Dayton, Ohio. Cigars. Nos. 153,164-5; Mar. 14.
- Schaefer, Estate of Joseph J., deceased, Dayton, Ohio. Cigars. No. 155,282; May 23.
- Schaefer, Eugene J., Dayton, Ohio, executor of the Estate of Joseph J. Schaefer, deceased, doing business as Joseph J. Schaefer. Cigars. No. 158,529; Sept. 5.
- Schaefer, F. & M., Brewing Co., The, New York, N. Y. Lager beer. No. 21,004; renewed Apr. 19, 1922.
- Schaefer, Joseph J. (See Schaefer, Eugene J.)
- Schaefer Tent & Awning Co., The, Denver, Colo. Auto porch beds, a portable and serviceable bed carried with an automobile. No. 150,556; Jan. 3.
- Schaefer, Chas. P., Reading, Pa. Braids, shoe and corset laces. No. 151,937; Feb. 14.
- Schaeffers, Joseph, Cleveland, Ohio. Antifriction bearings. No. 161,904; Nov. 21.
- Schafer, Henry S., Easton, Pa. Sausage, bacon, ham, and scrapple. No. 152,985; Mar. 7.

Alphabetical list of registrants of trade-marks—Continued.

- Schaffner, Theophilus C., Chicago, Ill. Men's outer garments. No. 155,354; May 23.
- Schall's, Inc., Clinton, Iowa. Chocolate bar in the shape of a cut of pie. No. 154,685; Apr. 18.
- Schapira, William, New York, N. Y. Medicines and pharmaceutical preparations for rheumatism, gout, etc. No. 156,576; June 27.
- Scheanblum, R., New York, N. Y. Hair nets. No. 157,760; Aug. 15.
- Scheeline Manufacturing Company, San Francisco, Calif. Electric steam radiators. No. 153,299; Mar. 14.
- Scheinzeit Goldman Co., New York, N. Y. Underwear for women, of knit and woven fabric. No. 159,085; Sept. 19.
- Scheinzeit-Goldman Co., New York, N. Y. Hosiery and underwear. No. 162,986; Dec. 26.
- Schellberg, O. Boto, New York, N. Y. Laxatives. No. 153,849; Mar. 28.
- Scher, Morris M., Baltimore, Md. Serge in the piece. No. 157,761; Aug. 15.
- Scherer, Bunnell & Scherer, Inc., New York, N. Y. Laundry blue or bluing. No. 159,086; Sept. 19.
- Scherer & Fix, Utica, N. Y. Coffee. No. 154,806; May 9.
- Schering & Glatz, Inc., New York, N. Y. Medicinal preparation for the treatment of gallstones. No. 151,593; Feb. 7.
- Schering & Glatz, Inc., New York, N. Y. Medicinal preparation recommended as a pain alleviator. No. 160,960; Oct. 31.
- Schering & Glatz, New York, N. Y., assignor to Schering & Glatz Inc. Chemical products derived from sugar. No. 21,864; renewed Oct. 11, 1922.
- Schermerhorn, Louis C., Hawthorne, N. J. Strings for violins, guitars, etc. No. 162,361; Dec. 12.
- Schied, Chas. W., Albany, N. Y. Malt extract for food purposes. No. 153,944; Mar. 28.
- Schieren, Chas. A., Company, New York, N. Y. Leather belting. No. 159,218; Sept. 19.
- Schieren, Chas. A., Company, New York, N. Y. Leather belting. No. 160,658; Oct. 24.
- Schieren, Chas. A., Company, New York, N. Y. Leather. No. 162,021; Nov. 28.
- Schill, H. V. T. Co., New York, N. Y. Cotton, silk, wool, linen, and mixed cloth piece goods. No. 152,073; Feb. 14.
- Schill, H. V. T. Co., New York, N. Y. Certain piece goods. No. 161,614; Nov. 14.
- Schiller, Lou J., New York, N. Y. Ready-made hat linings. No. 156,812; July 11.
- Schiller, Louis, Philadelphia, Pa. Neckties and scarfs. No. 161,615; Nov. 14.
- Schiller, S., New York, N. Y. Women's, men's, and children's hats. No. 154,686; Apr. 18.
- Schlangen Bros. Co., Chicago, Ill. Hose nozzles. No. 159,508; Sept. 26.
- Schlichtmann, Philip J., doing business as The Slick Drug Co., Philadelphia, Pa. Preparation used for gargling. No. 160,961; Oct. 31.
- Schloss, Joseph W., Co., New York, N. Y. Hair wavers. No. 155,819; June 6.
- Schloss Manufacturing Co., San Francisco, Calif. Fruit jar rings. Nos. 160,008-12; Oct. 10.
- Schlott-Mutual Drug Company, The, Denver, Colo. Laxative preparations. No. 155,820; June 6.
- Schluderberg-T. J. Kurlle Co., Wm., The, Baltimore, Md. Creamery butter, lard, ham, etc. No. 154,687; Apr. 18.
- Schmid, Augusta, Philadelphia, Pa. Supporter belts for sanitary napkins. No. 152,986; Mar. 7.
- Schmid, Julius, Inc., New York, N. Y. Powder puffs. No. 154,148; Apr. 4.
- Schmidt, Albert H., Chicago, Ill. Cleansing cream. No. 161,288; Nov. 7.
- Schmidt, C., Company, The, Cincinnati, Ohio. Filters and refrigerators. No. 153,850; Mar. 28.
- Schmidt, Chas. A., Instrument Company, St. Louis, Mo. Surgical instruments and hospital supplies. No. 162,987; Dec. 26.
- Schmidt, Charles E., trading as Coulter Mfg. Co., Philadelphia, Pa. Shoe holders. Nos. 160,659-60; Oct. 24.
- Schmidt, Charles G., Philadelphia, Pa. Polish for automobiles, pianos, furniture, safes, etc. No. 158,801; Sept. 12.
- Schmidt, Henry A., College Point, N. Y. Stylographic ink pencils. No. 158,082; Aug. 22.
- Schmidt, Julius C., Eldorado Springs, Mo. Certain medicine. No. 152,266; Feb. 21.
- Schmied, Oscar, New York, N. Y. Hosiery. No. 152,074; Feb. 14.
- Schmit Trunk Company, Oshkosh, Wis. Trunks. No. 152,626; Feb. 28.
- Schmitz, Katherine, Chicago, Ill. Automobile and furniture polish. No. 152,987; Mar. 7.
- Schmukler, S. & Son, Philadelphia, Pa. Certain electrical apparatus. No. 156,745; July 11.
- Schnarr, J. & Company, Orlando, Fla. Chemical preparation for spraying vegetation. No. 154,381; Apr. 11.
- Schnefel Bros., Newark, N. J. Manicure files. Nos. 153,518-21; Mar. 21.
- Schneider, Battinus & Simon, Chicago, Ill. Hosiery. No. 150,557; Jan. 3.
- Schneider, Battinus & Simon, Chicago, Ill. Ladies' union suits and knitted vests. No. 160,807; Oct. 24.
- Schneider, Battinus & Simon, Chicago, Ill. Hair nets. No. 161,616; Nov. 14.
- Schneider, Carl, Nutley, N. J. Certain valves, siphons, cocks, etc. No. 152,496; Feb. 28.
- Schnuck, Edward F., White Plains, N. Y. Coffee. No. 154,451; Apr. 11.
- Schoellkopf Co., The, Dallas, Tex. Harness, saddles, bridles, etc. No. 156,746; July 11.
- Schoeneman, J., Incorporated, Baltimore, Md. Certain articles of clothing. No. 156,922; July 18.
- Schoenhofen Company, Chicago, Ill. Orange, cherry, and grape sodas, sarsaparilla, and sparkling water. No. 153,522; Mar. 21.
- Scholl Manufacturing Company, The, Chicago, Ill. Preparations for use in the treatment of foot troubles. Nos. 158,584-5; Sept. 5.
- Scholl Manufacturing Company, The, Chicago, Ill. Adhesive medicated shields or pads for corns, etc. No. 161,289; Nov. 7.
- Scholl Manufacturing Company, The, Chicago, Ill. Orthopedic appliances. Nos. 161,378-9; Nov. 7.
- Schollhorn, Wm., Co., The, New Haven, Conn. Eyelet punches. No. 156,050; June 13.
- Schanberg Manufacturing Company, Chicago, Ill. Side windshields for automobiles. No. 162,885; Dec. 26.
- Schonhoff, John Z., trading as Lord Baltimore Bottling Company, Baltimore, Md. Ginger ale. No. 158,083; Aug. 22.
- Schoppenhorst, Francis W., Indianapolis, Ind. Antiseptic medicine. No. 155,821; June 6.
- Schranck, H. C., Co., Milwaukee, Wis. Beverages sold as soft drinks. No. 158,530; Sept. 5.
- Schratter, Alfred, New York, N. Y. Canned peppers. No. 152,627; Feb. 28.
- Schreiber, John J., Minneapolis, Minn. Stock and poultry feeds. No. 159,509; Sept. 26.
- Schreiber, Laura B., et al., trustees. (See Binder, R. C. R., and Schreiber.)
- Schreiber Products Corporation, Buffalo, N. Y. Malt-extract sirup for food purposes. No. 158,531; Sept. 5.
- Schreiber Products Corporation, Buffalo, N. Y. Malt-extract sirup for food purposes. No. 158,802; Sept. 12.
- Schreiber Products Corporation, Buffalo, N. Y. Malt-extract sirup for food purposes. Nos. 159,087-9; Sept. 19.
- Schreiber Products Corporation, Buffalo, N. Y. Malt-extract sirup for food purposes. No. 159,510; Sept. 26.
- Schreiber Products Corporation, Buffalo, N. Y. Malt-extract sirup for food purposes. No. 160,962; Oct. 31.
- Schreiber & Wallach, Cleveland, Ohio. Children's and ladies' dresses, skirts, middie blouses, and bloomers. No. 154,688; Apr. 18.
- Schrivver, O. P., Co., The, Cincinnati, Ohio. Fruit presses. No. 152,497; Feb. 28.
- Schrivver, O. P., Company, The, Cincinnati, Ohio. Lifting jacks and lifting-jack bases. No. 157,200; July 25.
- Schroeder, John, Lumber Co., Milwaukee, Wis. Wooden boxes. No. 153,523; Mar. 21.
- Schrumm-Schrumm Co., Chicago, Ill. Extracts to be used for beverage purposes. No. 158,084; Aug. 22.
- Schueller, E., Paris, France. Certain chemical, pharmaceutical, and toilet preparations. No. 151,594; Feb. 7.
- Schulang, P. & Sons, New York, N. Y. Neck pieces, collars, muffs, and coats of fur. No. 162,454; Dec. 12.
- Schultz, Arthur J., Los Angeles, Calif. Honey. No. 151,938; Feb. 14.
- Schulze Baking Company, Chicago, Ill. Bread. No. 162,886; Dec. 26.
- Schulze, Charles W., doing business as Redfield Carbonating Company, Redfield, S. Dak. Ginger ale. No. 162,366; Dec. 12.
- Schumann, Reinhold, Inc., Newark, N. J. Certain surgical appliances. No. 159,090; Sept. 19.
- Schuster Company, The, Cleveland, Ohio. Crushed fruits, fruit sirups, and beverages made therefrom. No. 150,963; Jan. 10.
- Schusterman, Samuel, New York, N. Y., assignor to The Rippel Corporation. Nonalcoholic, noncereal, maltless beverage and sirup for making same. No. 151,226; Jan. 24.
- Schutt, Alvina, Marinette, Wis. Medicinal preparation for use in tuberculosis, coughs, colds, etc. No. 150,558; Jan. 3.
- Schutter Johnson Candy Co., Chicago, Ill. Candy. No. 150,559; Jan. 3.
- Schuykill Valley Mills, Inc., Spring City, Pa. Hosiery. No. 154,689; Apr. 18.
- Schwab, Abraham, Memphis, Tenn. Toilet soap. No. 151,939; Feb. 14.
- Schwab, Leopold B., New York, N. Y. Hosiery and knit underwear for men. No. 159,091; Sept. 19.
- Schwan-Bleistift-Fabrik (Swan Pencil Company.) (See Schwanhäuser, late Grossberger & Kurz.)
- Schwanhäuser, late Grossberger & Kurz, doing business as Schwan-Bleistift-Fabrik (Swan Pencil Company), Nuremberg, Germany. Lead, colored and mechanical lead, copying, and slate pencils and crayon. Nos. 162,589-91; Dec. 19.
- Schwartz, Emanuel, New York, N. Y. Knitted sleeping and bed-room garments. No. 154,690; Apr. 18.
- Schwartz, F. and Son, Allentown, Pa. Boys' suits, overcoats, pants. No. 154,691; Apr. 18.
- Schwartz, George M., Columbus, Ohio. Showcases and store furniture. No. 153,524; Mar. 21.

- Schwartz, J. C., St. Louis, Mo. Alloy for the restoration of broken-down teeth. No. 158,803; Sept. 12.
- Schwartz, J. C., St. Louis, Mo. Material for models for the construction of dental crowns and bridges. No. 158,804; Sept. 12.
- Schwartz, Jacob, New York, N. Y. Certain musical instruments and parts thereof. No. 158,295; Aug. 29.
- Schwartz, S. Robert, & Bro., New York, N. Y. Therapeutic lamps. No. 158,805; Sept. 12.
- Schwarz, John A., Inc., New York and Brooklyn, N. Y. Mattresses. No. 155,822; June 6.
- Schwarz & Son, Newark, N. J. Candy. No. 159,992; Sept. 19.
- Schwarzbart, Adolph, New York, N. Y. Bath tablets and odorizers. No. 161,290; Nov. 7.
- Schwarzbart, Justin, Berlin, Germany. Mentholated cotton. No. 161,617; Nov. 14.
- Schwarzenbach, Huber & Company, West Hoboken, N. J., and New York, N. Y. Broad silks in the piece. No. 150,560; Jan. 3.
- Schwarzenbach, Huber Company, West Hoboken, N. J., and New York, N. Y. Broad silks, linens, shirtings, etc. No. 155,523; May 30.
- Schwarzenbach Huber Co., West Hoboken, N. J., and New York, N. Y. Broad silks in the piece. No. 161,618; Nov. 14.
- Schwarzwaelder Company, Philadelphia, Pa. Waterproof fabrics. No. 160,808; Oct. 24.
- Schweibold, Martin, and Jacob Schweibold, Philadelphia, Pa. Radio receiving apparatus. No. 160,963; Oct. 31.
- Schweinsburg, Emil, New York, N. Y., assignor to B. Altman & Co. Corsets. No. 21,006; renewed Apr. 19, 1922.
- Schweizer-Caillaux, Jean F., Vincennes, France. Certain articles of clothing. No. 155,823; June 6.
- Schweyer, John L., Norristown, Pa. Pure-silk threads or yarns, artificial-silk threads or yarns. No. 159,758; Oct. 3.
- Schwob, Adolphe, Inc., New York, N. Y. Watches. No. 151,595; Feb. 7.
- Schwob, Adolphe, Inc., New York, N. Y. Watches and watch movements, dials, and cases. No. 152,988; Mar. 7.
- Schwob, Adolphe, Inc., New York, N. Y. Watches, watch movements, dials, and cases. No. 155,283; May 23.
- Schwob, Adolphe, Inc., New York, N. Y. Watches and watch movements, dials, and cases. No. 156,747; July 11.
- Sciara, Peter, Benld, Ill. Live poultry. No. 156,548; June 27.
- Science Service, Incorporated, Wilmington, Del., and Washington, D. C. Publications or scientific news bulletins published periodically. No. 152,041; Feb. 14.
- Scientific Farming Machinery Company, Minneapolis, Minn. Tillers, comprising a plow and a soil disintegrator. No. 151,940; Feb. 14.
- Scientific Research Laboratories, Milwaukee, Wis. Tooth cream. No. 158,296; Aug. 29.
- Scientific Research Laboratories, Milwaukee, Wis. Tooth powder. No. 158,297; Aug. 29.
- Seilken, Samuel, New York, N. Y. Gloves of leather, rubber, fabric, asbestos, and combination of said material. No. 154,692; Apr. 18.
- Scintilla, Canton of Solothurn, Switzerland. Lamps, lanterns, ventilators, etc. No. 151,227; Jan. 24.
- Scintilla, Solothurn, Switzerland. Electric clocks and clocks and watches of all kinds and parts thereof. No. 151,596; Feb. 7.
- Scintilla, Solothurn, Switzerland. Certain measuring and scientific appliances. No. 161,980; Nov. 28.
- Scofield, Evans and Company, Chicago, Ill. Liquid waterproofing compounds. No. 160,286; Oct. 17.
- Scofield, Plimpton, Company, Boston, Mass. Certain chairs. No. 152,106; Feb. 14.
- Scottford, Baron Henry, Atlantic City, N. J. Dolls. No. 151,045; Jan. 10.
- Scottford, Baron H., Atlantic City, N. J. Dolls. No. 153,300; Mar. 14.
- Scotch-Tone Company, Oklahoma, Okla. Soap. No. 155,824; June 6.
- Scotland Co-Operative Cantaloupe Exchange, The, Laurinburg, N. C. Fresh cantaloupes. No. 160,661; Oct. 24.
- Scott County Milling Company, The, Sikeston, Mo. Stock and poultry feed. No. 153,525; Mar. 21.
- Scott County Milling Company, The, Sikeston, Mo. Wheat flour. Nos. 153,617-18; Mar. 21.
- Scott, Charles H., Company, The, Chicago, Ill. Brassières, bandeaus, corsets, etc. No. 156,051; June 13.
- Scott, J. & J. Ltd., New York, N. Y. Paper, cardboard, box board, and mailing envelopes. No. 155,076; May 16.
- Scott, Kenneth H., Maplewood, N. J. Wagons for conveying dishes from the dining table to the kitchen. No. 161,027; Oct. 31.
- Scott, L. E., Company. (See Scott, Lester.)
- Scott, Lester E., trading as L. E. Scott Co., Southington, Conn. Furniture polish. No. 158,533; Sept. 5.
- Scott, Lester E., trading as L. E. Scott Company, Southington, Conn. Furniture polish. No. 160,288; Oct. 17.
- Scott Paper Company, Chester, Pa. Toilet paper. No. 151,228; Jan. 24.
- Scott, Wm., jr., Norristown, Pa. Hosiery. No. 160,287; Oct. 17.
- Scovil, Cora L., New York, N. Y. Dolls. No. 160,289; Oct. 17.
- Scowcroft, John, & Sons Company, Ogden, Utah. Coffee, food-flavoring extract, tea. No. 156,749; July 11.
- Scranton Drug Manufacturing Co., Scranton, Pa. General tonic for the liver, nerves, and stomach. No. 155,825; June 6.
- Scranton Glass Instrument Company, Inc., Scranton, Pa. Hydrometer syringes. No. 157,282; July 25.
- Scrantonized Container Corporation, The, Huntington, W. Va. Sanitary containers. No. 154,382; Apr. 11.
- Scribner's, Charles, Sons, New York, N. Y. Monthly publications. No. 159,093; Sept. 19.
- Scully Brothers & Co., Inc., New York, N. Y. Ladies' trimmed hats. No. 160,290; Oct. 17.
- Scully, D. B., Syrup Company, Chicago, Ill. Molasses. No. 156,750; July 11.
- Seaboard Commercial Company, Seattle, Wash. Canned salmon. No. 159,511; Sept. 26.
- Seaboard Textile Co. Inc., New York, N. Y. Cotton fabrics in the piece. No. 153,526; Mar. 21.
- Seabury, R. H., Petersburg, Va. Trunks, hand bags, grips, suit cases, brief cases, etc. No. 151,046; Jan. 10.
- Sealastic Co., The. (See Abbeck, Louis.)
- Sealright Company, Inc., Fulton, N. Y. Closure disks for bottles and other containers. No. 162,887; Dec. 26.
- Seaman Patrick Paper Co., Detroit, Mich. Enamel paper. No. 152,498; Feb. 28.
- Seaman, Patrick Paper Co., Detroit, Mich. Enamel paper for pamphlets, folders, catalogues, etc. No. 153,945; Mar. 28.
- Seaman-Patrick Paper Co., Detroit, Mich. Certain articles of stationery. No. 155,583; May 30.
- Seamless Brassiere Co. Inc., New York, N. Y. Brassières. No. 155,178; May 16.
- Seamless Rubber Company, Inc., The, New Haven, Conn. Rubber combs. No. 162,888; Dec. 26.
- Searle, G. D., and Company, Chicago, Ill. Antiseptic pharmaceutical preparations. No. 159,759; Oct. 3.
- Searles, Herbert N., New York, N. Y. Coolers. No. 161,834; Nov. 21.
- Sears and Nichols Canning Co., The, Chillicothe, Ohio. Canned vegetables. No. 158,298; Aug. 29.
- Sears, Roebuck and Co., Chicago, Ill. Girls' dresses. No. 150,561; Jan. 3.
- Sears, Roebuck and Co., Chicago, Ill. Underwear. No. 153,619; Mar. 21.
- Sears, Roebuck and Co., Chicago, Ill. Silks in the piece. No. 154,149; Apr. 4.
- Sears, Roebuck & Co., Chicago, Ill. Women's blouses and waists. No. 157,201; July 25.
- Sears, Roebuck and Co., Chicago, Ill. Tooth paste. No. 157,384; Aug. 1.
- Seattle-Astoria Iron Works, Seattle, Wash. Can heading and sealing machines. No. 157,627; Aug. 8.
- Seattle Cap Manufacturing Co., Seattle, Wash. Caps and hats for men, women, and children. No. 159,394; Sept. 19.
- Seattle Pipeless Furnace and Manufacturing Company, Seattle, Wash. Coal furnaces. No. 160,291; Oct. 17.
- Seattle Suit Case Manufacturing Co., Seattle, Wash. Grips, satchels, trunks, etc. No. 153,527; Mar. 21.
- Seckay, John G., Scranton, Pa. Salad dressing. No. 152,989; Mar. 7.
- Secord, Guy, doing business as Puramul Dry Milk Co., Jacksonville, Fla. Whole-milk powder. No. 162,889; Dec. 26.
- Security Certificate Company, Los Angeles, Calif. Title and identification certificate. No. 156,751; July 11.
- Security Key Case Mfg. Co., New York, N. Y. Key-cases. No. 159,512; Sept. 26.
- Security Manufacturing Company, Los Angeles, Calif. Automobile locks for securing about a wheel. No. 152,628; Feb. 28.
- Security Manufacturing Company, Brooklyn, N. Y. Electrical ignition coils and electrical condensers. No. 155,826; June 6.
- Security Mills & Feed Company, Knoxville, Tenn. Poultry feed. No. 151,941; Feb. 14.
- Security Rubber and Belting Company, Chicago, Ill. Belting. No. 160,013; Oct. 10.
- Security Rubber and Belting Company, Chicago, Ill. Belting composed of fabric and rubber. No. 161,291; Nov. 7.
- Sedalia Medicine Company, Sedalia, Mo. Liniment for goiter. No. 155,827; June 6.
- Seed Filter & Manufacturing Co. Inc., New York, N. Y. Antisplash water filters. No. 159,513; Sept. 26.
- Seel, George A., Galveston, Tex. Flavoring sirups and a maltless nonalcoholic beverage. No. 155,284; May 23.
- Seel, Reidar G., New York, N. Y. Medicinal preparation of a sedative character. No. 160,964; Oct. 31.
- Seeman Brothers, New York, N. Y. Canned vegetables and fish. No. 20,942; renewed Mar. 17, 1921.
- Seeman Brothers, New York, N. Y. Nut margarine. No. 153,620; Mar. 21.
- Segal Lock & Hardware Co. Inc., New York, N. Y. Keys, locks, padlocks, door bolts. No. 152,629; Feb. 28.
- Seignas, Chas., Company, San Francisco, Calif. General tonic. No. 151,597; Feb. 7.
- Segur, Howard J., Portland, Oreg. Controlling device for automobile spotlights. No. 151,942; Feb. 14.
- Sehn, Stevens, and Company, Huntington, W. Va. Coffee. No. 153,301; Mar. 14.
- Seidner & Hitzigrah Inc., New York, N. Y. Ladies' hair nets composed of human hair. No. 162,890; Dec. 26.

Alphabetical list of registrants of trade-marks—Continued.

- Seiger, M., & Son, New York, N. Y. Finger rings. No. 156,752; July 11.
- Seligman, N., Company. (See Seligman, Nathan.)
- Seligman, Nathan, doing business as N. Seligman Company, New York, N. Y. Hair nets. No. 162,891; Dec. 26.
- Seiss Manufacturing Company, The, Toledo, Ohio. Diaphragm horns. No. 160,662; Oct. 24.
- Seiss, Otto, trading as Newark Knitting Works, Newark, N. J. Wool, Shetland floss, worsted, mohair, alpaca, etc. Nos. 157,202-3; July 25.
- Selby Shoe Co., The, Portsmouth, Ohio. Leather and canvas boots and shoes. No. 161,620; Nov. 14.
- Selditch, Pincus, Philadelphia, Pa. Phonographs. No. 150,964; Jan. 10.
- Seligman, Nathan, New York, N. Y. Hair nets. No. 152,990; Mar. 7.
- Seligman, Samuel, New York, N. Y. Electrical burglar-alarm systems and parts thereof. No. 151,598; Feb. 7.
- Seligmann, Fred, Sequin, Tex. Ointment used in the treatment of eczema. No. 161,292; Nov. 7.
- Seligmann, Fred, Sequin, Tex. Powder used in the treatment of eczema. No. 161,293; Nov. 7.
- Sells, Leopold, Stoughton, Mass. Leather shoes. No. 154,693; Apr. 18.
- Selkin, Saul J., doing business as Pharmocraft M'fg. Co., New York, N. Y. Building-up tonic and milk adjuvant. No. 161,294; Nov. 7.
- Sellers, G. I., & Sons' Company, Elwood, Ill. Kitchen cabinets. No. 151,943; Feb. 14.
- Selter, P. B., Detroit, Mich. Tackle blocks. No. 155,285; May 23.
- Seltzer, Harry J., Reading, Pa. Hosiery, underwear, wristlets, neckties, sweaters, etc. No. 156,813; July 11.
- Semel, J. H., & Co., New York, N. Y. Hosiery. No. 151,229; Jan. 24.
- Semet-Solvay Co., Solvay, N. Y. Protective paints. No. 158,806; Sept. 12.
- Sem-Pray Jo-Ve-Nay Company, Grand Rapids, Mich. Toilet cream. Nos. 153,414-15; June 20.
- Seneca Camera Manufacturing Company, Rochester, N. Y. Photographic film. No. 150,965; Jan. 10.
- Seneca Camera Manufacturing Company, Rochester, N. Y. Photographic cameras. No. 154,383; Apr. 11.
- Seneca Glove & Mitten Manufacturing Company, The, Tiffin, Ohio. Cotton gloves and mittens. No. 157,204; July 25.
- Seneca Knitting Company. (See Smith, Caleb.)
- Sénégas, Jean, New York, N. Y. Solution for lightening the shade of hair. No. 152,267; Feb. 21.
- Sénégas, Jean, New York, N. Y. Nail polish. No. 152,268; Feb. 21.
- Sénégas, Jean, New York, N. Y. Cosmetics, particularly solutions for lightening the hair. No. 158,586; Sept. 5.
- Sensat, G., Hijos, Barcelona, Spain. Olive oil. No. 158,534; Sept. 5.
- Sept Cinema Camera Distributors, Inc., New York, N. Y. Cinema cameras. No. 159,514; Sept. 26.
- Seril, Abraham, New York, N. Y. Certain textile fabrics in the piece. 152,269; Feb. 21.
- Service Motor Truck Company, Wabash, Ind. Motor trucks. 152,270; Feb. 21.
- Service Motor Truck Co., Wabash, Ind. Tachometers. No. 162,455; Dec. 12.
- Service Oil Refining Company, Kokomo, Ind. Lubricating oils and greases. No. 151,230; Jan. 24.
- Service Publishing Co., The, South Bend, Ind. Monthly trade journal. No. 157,580; Aug. 8.
- Service Tool Company, The, Newark, N. J. Files. No. 161,836; Nov. 21.
- Servicised Products Company. (See Fischer, Albert C.)
- Sessum, B. L., Memphis, Tenn. Stock feed. No. 157,762; Aug. 15.
- Seven Oils Company, The, Boston, Mass. Medicated candy tablets for throat irritations. No. 150,562; Jan. 3.
- Seven Oils Co., Inc., The, Boston, Mass. Soaps. No. 159,095; Sept. 19.
- Seven Spas Soap Proprietary Coy., Limited, London, England. Antirheumatic medicated soap. No. 157,763; Aug. 15.
- Seville Laboratories, Chicago, Ill. Hair tonic. No. 155,355; May 23.
- Sewell, Joseph W., Hot Springs, Ark. Preparation used in the treatment of rheumatism. No. 151,599; Feb. 7.
- Sexauer, J. A., Mfg. Co. Inc., New York, N. Y. Certain hardware and plumbing supplies. No. 162,650; Dec. 19.
- Sexton, John, and Company, Chicago, Ill. Matches. No. 152,991; Mar. 7.
- Sexton, John, and Company, Chicago, Ill. Certain cleaning preparations. No. 155,828; June 6.
- Sexton, John, and Company, Chicago, Ill. Prepared roofing and roof cement. No. 155,829; June 6.
- Sexton, John, and Company, Chicago, Ill. Lubricating oils and greases. No. 158,535; Sept. 5.
- Sexton, John, and Company, Chicago, Ill. Paints, ready-mixed paint enamels, varnishes, wood filler, etc. No. 159,096; Sept. 19.
- Seydel Manufacturing Company, Jersey City, N. J. Intravenous mercurial preparation. No. 160,965; Oct. 31.
- Seymour Manufacturing Company, The, Seymour, Conn. Metal alloys of copper, zinc, and nickel in certain forms. Nos. 162,116-18; Dec. 5.
- Shackman, B., & Co., New York, N. Y. Snapping mottoes. Nos. 156,958-9; July 18.
- Shackman, B., & Co., New York, N. Y. Snapping mottoes. Nos. 159,515-16; Sept. 26.
- Shackman, B. & Co., New York, N. Y. Snapping mottoes. Nos. 160,292-3; Oct. 17.
- Shackman, B., & Co., New York, N. Y. Souvenir or favor container. No. 160,663; Oct. 24.
- Shade-O Co. (See Walsh, John.)
- Shaffer, John B., Lima, Ohio. Preparation for the relief of bronchial asthma, hay fever, colds, etc. No. 157,385; Aug. 1.
- Shaffer, M., Company, The, Philadelphia, Pa. Tonic for the scalp and hair. No. 157,834; Aug. 15.
- Shaffer, M., Company, Philadelphia, Pa. Toilet water. No. 157,835; Aug. 15.
- Shaffer, M., Company, The, Philadelphia, Pa. Tonic for scalp and hair. No. 161,295; Nov. 7.
- Shaffer, M., Company, The, Philadelphia, Pa. Hair tonic. No. 161,296; Nov. 7.
- Shaft-Pierce Shoe Co., Faribault, Minn. Fabric, rubber, rubber-composition, and leather shoes. No. 152,992; Mar. 7.
- Shaler, C. A., Company, Waupun, Wis. Portable rubber-tire vulcanizers. No. 152,630; Feb. 28.
- Shales, Alfred, Newton, Mass. Scratch fillers. No. 155,077; May 16.
- Shannon Chemical Company. (See Shannon, J. F.)
- Shannon, J. F., doing business as The Shannon Chemical Company, Dubois, Pa. Remedy for ailments of the mouth and throat. No. 160,966; Oct. 31.
- Shantz, M. B., Incorporated, Rochester, N. Y. Buttons of vegetable ivory. No. 153,528; Mar. 21.
- Shapiro, Lewis, & Co., New York, N. Y. Dresses. No. 155,830; June 6.
- Shapiro, Bernstein & Co. Inc., New York, N. Y. Printed musical compositions. No. 150,563; Jan. 3.
- Shapiro, Bernstein & Co. Inc., New York, N. Y. Printed musical compositions. No. 150,966; Jan. 10.
- Shapiro, Louis, doing business as Louis Shapiro and Co., Mt. Vernon, N. Y. Men's ready-made suits and overcoats. No. 161,297; Nov. 7.
- Shapiro, S., Company Inc., Syracuse and New York, N. Y. Young men's and boys' double-seated trousers. No. 156,815; July 11.
- Shapleigh, Blasdel, trading as Blasdel Products Co., St. Louis, Mo. Electric spark energizer. No. 156,624; July 11.
- Shapleigh Hardware Company, St. Louis, Mo. Ice skates. No. 151,231; Jan. 24.
- Shapleigh Hardware Company, St. Louis, Mo. Catalogue published from time to time. No. 157,764; Aug. 15.
- Shapleigh Hardware Company, St. Louis, Mo. Hones. No. 157,765; Aug. 15.
- Shapleigh Hardware Company, St. Louis, Mo. Pneumatic rubber tires and tubes. No. 160,014; Oct. 10.
- Sharlin, Solomon, Trenton, N. J. Electric-lighting fixtures and parts. No. 158,536; Sept. 5.
- Sharon Steel Hoop Company, Sharon, Pa. Steel plates, strips, and sheets. No. 150,962; Jan. 10.
- Sharp & Dohme, Baltimore, Md. Certain medicinal preparation. No. 150,564; Jan. 3.
- Sharp & Dohme, Baltimore, Md. Footease preparation. No. 156,416; June 20.
- Sharp & Dohme, Baltimore, Md. Medicinal tonic for treatment of rheumatism. No. 158,085; Aug. 22.
- Sharp, Jerlene B., doing business as Admiral Co., Los Angeles, Calif. Hair restorer. No. 158,807; Sept. 12.
- Sharp, John, doing business as She-ll Fire Spark Plug Co., Cleveland, Ohio. Ignition accessories. No. 158,537; Sept. 5.
- Sharp Rotary Ash Receiving Corporation, Springfield, Mass. Ash receivers. No. 161,720; Nov. 14.
- Sharp Spark Plug Company, The, Cleveland, Ohio. Spark plugs. No. 151,600; Feb. 7.
- Sharp, Ulysses G., Urichsville, Ohio. Cigars. No. 152,995; Mar. 7.
- Sharpe, Samuel M., New York, N. Y. Dental floss. No. 152,993; Mar. 7.
- Sharples Milker Co., The, West Chester, Pa.; Chicago, Ill.; San Francisco, Calif., and Toronto, Canada. Milking machines and parts thereof. No. 162,651; Dec. 19.
- Shasteen, Charles, Toledo, Ohio. Potato chips. No. 159,097; Sept. 19.
- Shavo Company, Stockton, Calif. Shaving cream. No. 160,294; Oct. 17.
- Shaw, Marvin, & Co., New York, N. Y. Children's and misses' dresses. No. 154,774; May 2.
- Shaw, Max, Philadelphia, Pa. Dress and negligee shirts. No. 158,808; Sept. 12.
- Shawcross, Cyril B., Fort Myers, Fla. Polish for use on automobiles, carriages, pianos, etc. No. 156,549; June 27.
- Shawmut Machine Works, Inc., doing business as Tremont Products Company, Boston, Mass. Electric socket and other switches. No. 160,967; Oct. 31.
- Shawmut Woolen Mills, Stoughton, Mass., and New York, N. Y. Worsteds fabrics or cloths in the bolt. No. 161,621; Nov. 14.
- Shaw-Walker Co., The, Muskegon, Mich. Wardrobes and office furniture. No. 155,179; May 16.
- Shea Smith & Co., Chicago, Ill. Publications issued monthly. No. 158,813; Sept. 12.
- Sheboygan Coaster & Wagon Works, Sheboygan, Wis. Children's coaster wagons. No. 160,295; Oct. 17.

- Sheet Metal Specialty Company, Pittsburgh, Pa. Metal cans. No. 150,967; Jan. 10.
- Sheeter, Richard P., Delphos, Ohio. Cigars. No. 153,302; Mar. 14.
- Sheffield Condensed Milk Co. Inc., New York, N. Y. Evaporated and condensed milks. No. 152,500; Feb. 28.
- Sheffield Mfg. Co., Burr Oak, Mich. Coaster wagons. Nos. 159,517-19; Sept. 26.
- Sheffield Mfg. Co., Burr Oak, Mich. Hand sleds. No. 159,520; Sept. 26.
- Sheffield Mfg. Co., Burr Oak, Mich. Coaster wagons. No. 159,521; Sept. 26.
- Sheffield Mfg. Co., Burr Oak, Mich. Velocipedes. No. 160,664; Oct. 24.
- Shelby Supply & Manufacturing Company, Shelby, Ohio. Candy mints. No. 151,945; Feb. 14.
- Shelby Supply and Manufacturing Company, The, Cleveland, Ohio. Chewing gum. No. 156,753; July 11.
- Shell Company of California, San Francisco, Calif. Lubricating oils. No. 158,809; Sept. 12.
- She-ll Fire Spark Plug Co. (See Sharp, John.)
- Shel-less Nut Co., Baltimore, Md. Shelled pecan and pecan-nut meats. No. 156,052; June 13.
- Shell Rock Spring Water Co., Inc., Perth Amboy, N. J. Natural spring water. No. 156,923; July 18.
- Shelton, William M., New York, N. Y. Child's wheel push toy. No. 156,053; June 13.
- Shenk, John B., Philadelphia, Pa. Certain medicinal and toilet preparations. No. 157,386; Aug. 1.
- Shepard, John W., Tucson, Ariz. Automobile wheel locks. No. 161,835; Nov. 21.
- Shepard's Pharmaceutical Company, St. Louis, Mo. Medicinal preparation for the treatment of certain diseases. No. 158,086; Aug. 22.
- Shepardson Extract Co. (See Shepardson, Merton A.)
- Shepardson, Merton A., doing business as Shepardson Extract Co., Springfield, Mass. Natural and artificial concentrated vanillas. No. 162,592; Dec. 19.
- Sheppard & Myers, Inc., Hanover, Pa. Shoes. No. 154,762; Apr. 18.
- Sheridan Motor Car Company, Muncie, Ind. Automobiles. No. 160,665; Oct. 24.
- Sherman Envelope Company, Worcester, Mass. Paper drinking cups. No. 151,232; Jan. 24.
- Sherman, Henry L., Arlington Heights, Mass. Canned grapefruit in cans and glasses. No. 161,981; Nov. 28.
- Sherman, Raymond H., Cleveland, Ohio. Shoe dressing. No. 162,362; Dec. 12.
- Sherwin Publishing Corporation, New York, N. Y. Bi-weekly magazine. No. 150,565; Jan. 3.
- Sherwin-Spinner Company, New York, N. Y. Cuffs and shirts. No. 159,098; Sept. 19.
- Sherwin-Williams Company, The, Cleveland, Ohio. Ready-mixed paints. No. 151,047; Jan. 10.
- Sherwin-Williams Company, The, Cleveland, Ohio. Preparation for the removal of paints, varnishes, etc. No. 151,233; Jan. 24.
- Sherwin-Williams Company, The, Cleveland, Ohio. Certain soaps and leather dressings and metal polish. No. 151,946; Feb. 14.
- Sherwin-Williams Company, The, Cleveland, Ohio. Paints. No. 152,994; Mar. 7.
- Sherwin-Williams Company, The, Cleveland, Ohio. Insulating varnish and material for filling electrical coils. No. 153,303; Mar. 14.
- Sherwin-Williams Company, The, Cleveland, Ohio. Paintbrushes, scratch brushes, and dusters for painters' use. No. 153,304; Mar. 14.
- Sherwin-Williams Company, The, Cleveland, Ohio. Paints in liquid, semipaste, and paste form. No. 154,150; Apr. 4.
- Sherwin-Williams Company, The, Cleveland, Ohio. Certain construction materials. No. 154,161; Apr. 4.
- Sherwin-Williams Company, The, Cleveland, Ohio. Certain chemicals, medicines, and pharmaceutical preparations. No. 154,384; Apr. 11.
- Sherwin-Williams Company, The, Cleveland, Ohio. Glue. No. 155,073; May 16.
- Sherwin-Williams Company, Cleveland, Ohio. Certain inks and inking materials. No. 155,286; May 23.
- Sherwin-Williams Company, The, Cleveland, Ohio. Soap (dry powdered, paste, semipaste, flake, liquid, and other consistencies). No. 155,831; June 6.
- Sherwin-Williams Company, The, Cleveland, Ohio. Certain chemicals. No. 157,387; Aug. 1.
- Sherwin-Williams Company, The, Cleveland, Ohio. Certain paints, paint enamels, primers, and fillers. Nos. 159,219-22; Sept. 19.
- Sherwin-Williams Company, The, Cleveland, Ohio. Paints (ready mixed and paste) drying with a semigloss finish. No. 159,223; Sept. 19.
- Sherwin-Williams Company, The, Cleveland, Ohio. Roof paints and elastic coating paints. No. 161,982; Nov. 28.
- Sherwin-Williams Company, The, Cleveland, Ohio. Paints, paint enamels, varnishes, fillers, and calcimines. No. 162,988; Dec. 26.
- Sherwood Bros. Mfg. Co. Inc., Canastota, N. Y. Children's vehicles. No. 161,721; Nov. 14.
- Sherwood, J. M., Manufacturing Corporation, New York, N. Y. Mops for culinary and other household purposes. No. 153,832; Mar. 28.
- Shields, Marie, New York, N. Y. Toilet preparations. No. 159,522; Sept. 26.
- Shierling, I. D., Lumpkin, Ga. Salve. No. 161,722; Nov. 14.
- Shifman Brothers, Newark, N. J. Mattresses. No. 159,099; Sept. 19.
- Shiman Bros. & Co., New York, N. Y. Jewelry for personal wear, not including watches. No. 162,363; Dec. 12.
- Shine, Robert J., Hagerstown, Md. Nonalcoholic, maltless beverage and sirup for making same. No. 152,042; Feb. 14.
- Shinn, W. C., Mfg. Co., Niles, Mich., and Chicago, Ill. Lightning conductors. No. 160,114; Oct. 10.
- Shinn, W. C., Mfg. Co., Niles, Mich., and Chicago, Ill. Antenna cable. No. 162,364; Dec. 12.
- Shi-Nup Products Company, Racine, Wis. Cleansing preparations. No. 155,832; June 6.
- Ship Owners Radio Service Inc., New York, N. Y. Certain electrical apparatus, machines, and supplies. No. 161,622; Nov. 14.
- Shipley Allen, Inc., Dover, Del., and Pittsburgh, Pa. Piston rings. No. 160,015; Oct. 10.
- Shipman, Clara M., Chicago, Ill. Preparation for catarrh and inflammation of the nose and throat. No. 150,566; Jan. 3.
- Shlivek Brothers Fabrics Corporation, New York, N. Y. Wool, wool and cotton, and wool and silk mixture fabrics in the piece. Nos. 158,087-8; Aug. 22.
- Shlivek Brothers Fabrics Corporation, New York, N. Y. Wool, wool and cotton, and wool and silk mixture fabrics in the piece. No. 158,810; Sept. 12.
- Shoe and Leather Reporter Co., Boston, Mass. Periodical published monthly. No. 159,100; Sept. 19.
- Shoe Products Co., Inc., The, New York, N. Y. Satin in the piece. No. 161,623; Nov. 14.
- Shoemaker, Flora H. (See Holmes, Clay W., assignor.)
- Shoemaker, Floyd M., administrator. (See Holmes, Clay W.)
- Shoenberg, Milton H., doing business as The Litit Co., San Francisco, Calif. Electric cigar lighter. No. 160,968; Oct. 31.
- Shoeteria Shoe Company, Salt Lake City, Utah. Shoes, boots, pumps, oxfords, slippers, rubbers, overshoes. No. 156,417; June 20.
- Sho-Form Company. (See Messing, Edward G.)
- Sholander, Canon C., Atchison, Kans. Toy molding sets. No. 153,853; Mar. 28.
- Shor, Harry N., Philadelphia, Pa. Tooth paste and powder, mouth wash, gas, and extracting fluids. No. 150,567; Jan. 3.
- Shore Instrument and Manufacturing Co., Jamaica, N. Y. Scales for use in instruments for testing the hardness of solid bodies. Nos. 151,405-6; Jan. 31.
- Shores-Mueller Company, Cedar Rapids, Iowa. Mineral feed for animals and poultry. No. 153,529; Mar. 21.
- Short & Son Co., Reading, Pa. Chewing gum. No. 153,854; Mar. 28.
- Short & Son Co., Reading, Pa. Chewing gum. No. 159,101; Sept. 19.
- Shortiss, Thomas, Toronto, Ontario, Canada. Candy. No. 151,947; Feb. 14.
- Shotton Radio Manufacturing Company, Inc., Albany, N. Y. Radio telephone and telegraph parts. No. 162,365; Dec. 12.
- Shryock, Harry W., Friday Harbor, Wash. Dry powder for the relief of inflamed tonsils. No. 150,568; Jan. 3.
- Shu-Betty Company, New York, N. Y. Domestic shoe cabinets. No. 152,996; Mar. 7.
- Shuit, W. E., Incorporated, Passaic, N. J. Medicinal preparations for colds, influenza, and la grippe. No. 158,299; Aug. 29.
- Shull, William A., doing business as The Velvetta Mfg. Co., Philadelphia, Pa. Insecticide. No. 161,298; Nov. 7.
- Shurey, Reginald, executor. (See Savory, Harry L.)
- Shurly & Dietrich, Galt, Canada. Saws. Nos. 21,688-9; renewed Aug. 23, 1922.
- Shuster Engineering Corporation, Philadelphia, Pa. Wrenches. No. 152,501; Feb. 28.
- Shuttles, Myra M., Dallas, Tex. Blood specific. No. 155,524; May 30.
- Shwayder Trunk Manufacturing Company, The, Denver, Colo. Trunks and suitcases. No. 153,530; Mar. 21.
- Sibley, Irving A., Jr., Chicago, Ill. Bumpers for automobiles. No. 160,016; Oct. 10.
- Sicher, D. E., & Company, New York, N. Y. Women's undergarments, nightgowns, envelop chemise, bloomers, etc. No. 154,694; Apr. 18.
- Sidenberg, G., & Co., New York, N. Y. Ruffings and plaitings for neckwear and trimmings. No. 151,944; Feb. 14.
- Sidenberg, G., & Co., New York, N. Y. Flounces, embroidered bandings and skirtings in the piece. Nos. 152,502-3; Feb. 28.
- Sidenberg, G., & Co., New York, N. Y. Collars, cuffs, gimpes, yestees, ruffs, jabots, and chemisettes. No. 155,833; June 6.
- Sidenberg, G., & Co., New York, N. Y. Collars and cuffs, gimpes, yestees, ruffs, jabots, and chemisettes. No. 156,418; June 20.
- Sidenberg, G., & Co., New York, N. Y. Laces and nets in the piece. No. 159,760; Oct. 3.
- Sidney Blumenthal & Co. Inc., New York, N. Y. Pile fabrics in the piece. No. 161,416; Nov. 14.

Alphabetical list of registrants of trade-marks—Continued.

- Sidney Cigar Manufacturing Company, Sidney, Ohio. Cigars. No. 158,811; Sept. 12.
- Siebert, Otto W., Gardner, Mass. Velocipedes. No. 158,539; Sept. 5.
- Siebler Clothes Company, The, Cincinnati, Ohio. Men's, young men's, and boys' suits, coats, trousers, knickerbockers, overcoats, etc. No. 157,205; July 25.
- Siegel Brothers, Chicago, Ill. Hats and caps for men, boys, and children. No. 154,695; Apr. 18.
- Siegel, J., & Co., Chicago, Ill.; Detroit, Mich., and New York, N. Y., assignor to American Lady Corset Company, Detroit, Mich. Corsets. No. 20,503; renewed Dec. 29, 1921.
- Siegel, Rothschild & Co., Baltimore, Md. Umbrellas and parasols. No. 161,299; Nov. 7.
- Siegrist, Henry A., St. Louis, Mo. Preparation for treatment of rheumatism, stomach trouble, etc. No. 155,834; June 6.
- Siegrist, William B., Jellico, Tenn. Bread. No. 157,581; Aug. 8.
- Sigmund Eisner Company, Red Bank, N. J. Men's and boys' outer wearing negligee and work shirts. No. 157,048; July 25.
- Sigmund Ullman Co., New York, N. Y. Printing inks. No. 158,300; Aug. 29.
- Sigmund Ullman Company, New York, N. Y. Printing inks. No. 151,984; Feb. 14.
- Signode System, Inc., Chicago, Ill. Materials for strapping boxes or the like. No. 161,624; Nov. 14.
- Signode System, Inc., Chicago, Ill. Tools for applying bale ties. No. 161,837; Nov. 21.
- Silberman & Gast, Chester, Pa. Cigars. No. 152,504; Feb. 28.
- Silberman, Louis, & Sons, Philadelphia, Pa. Sole leather. No. 160,017; Oct. 10.
- Silbert, Harry, doing business as Hudson Bay Fur Company, New York, N. Y. Prepared furs. No. 159,102; Sept. 19.
- Silent Products Co., Irvington, N. J. Liquid chemical composition for cleaning windows and glassware. No. 157,766; Aug. 15.
- Silent Watchman Corporation, The, New York, N. Y. Time-recording locks. No. 156,054; June 13.
- Silica Products Co. Inc., San Francisco, Calif. Polishing and cleaning compounds. No. 150,569; Jan. 3.
- Silica Products Company, Tulsa, Okla. Mechanics' soap. No. 155,525; May 30.
- Silk Association of America, The, New York, N. Y. Certain named printed publications. No. 162,367; Dec. 12.
- Silkwood-Pharis Wholesale Grocery Company, West Frankfort, Ill. Canned vegetables and pork and beans. No. 162,368; Dec. 12.
- Silkwood-Pharis Wholesale Grocery Company, West Frankfort, Ill. Canned vegetables. No. 162,892; Dec. 26.
- Silumite Products Corporation, Baltimore, Md., and Morton, Pa. Paints in ready-mixed, dry, or paste form. No. 154,151; Apr. 4.
- Silurium Manufacturing Company, The, Cleveland, Ohio. Battery boxes. No. 156,754; July 11.
- Silver Manufacturing Company, The, Salem, Ohio. Feed and ensilage cutters and fodder shredders. No. 155,080; May 16.
- Silverman, E. & H., doing business as The First Aid Syrup Co., Hazleton, Pa. Noncreal, nonalcoholic, maltless beverage. No. 158,094; Aug. 22.
- Silverman, Herman, doing business as U. S. Bottling Co., Butler, Pa. Beverage sold as a soft drink and sirup therefor. No. 159,642; Sept. 26.
- Silverman, M., & Son, Philadelphia, Pa. Cotton piece goods and woolen dress goods. No. 161,625; Nov. 14.
- Silz, A., Inc., New York, N. Y. Cheeses, broths, soups, etc. No. 159,523; Sept. 26.
- Silz, A., Inc., New York, N. Y. Dressed, packed, and prepared poultry and game birds, turkey hash, etc. No. 162,893; Dec. 26.
- Simmons, George T., Janesville, Wis. Spark plugs. No. 154,209; Apr. 4.
- Simmons & Hammond Manufacturing Co., Portland, Me. Tooth powders and toilet creams. No. 156,420; June 20.
- Simmons Hardward Company, St. Louis, Mo. Storage batteries. No. 156,755; July 11.
- Simon, Franklin, & Co. Inc., New York, N. Y. Men's and boys' clothing. No. 150,570; Jan. 3.
- Simon, Franklin, & Co. Inc., New York, N. Y. Certain articles of clothing. No. 158,957; Sept. 19.
- Simon, Franklin, & Co. Inc., New York, N. Y. Certain articles of clothing. No. 159,103; Sept. 19.
- Simon, J., & Cie., Paris and Lyon, France. Perfumes, face and toilet powders. No. 154,385; Apr. 11.
- Simon, J., & Cie., Paris and Lyon, France. Face cream. No. 154,697; Apr. 18.
- Simon, Leo, Natchez, Miss. Fruit cakes. No. 161,626; Nov. 14.
- Simon Levi Company, San Diego, Calif. Coffee. No. 152,505; Feb. 28.
- Simon, Vuillard & Strauss, London, England. Briar pipes. No. 152,998; Mar. 7.
- Simonds Manufacturing Company, Fitchburg, Mass. Hack saws and files. No. 154,386; Apr. 11.
- Simons Bros. Company, Philadelphia, Pa. Certain articles of jewelry and precious-metal ware. No. 155,526; May 30.
- Simons, Ernest, Mfg. Co., Port Chester, N. Y. Sheets and pillowcases. No. 157,767; Aug. 15.
- Simons, Ernest, Mfg. Co., Port Chester, N. Y. Boys' shirts and blouses. No. 161,627; Nov. 14.
- Simons, Henry H. (See Brown, Rachel W., assignor.)
- Simons Manufacturing Company, Chicago, Ill. Lubricant for brake bands and the like. No. 157,283; July 25.
- Simonson, Rogers & Jaeger, Inc., New York, N. Y. Linings in the piece for men's wear. No. 150,571; Jan. 3.
- Simple Simon Manufacturing Company, Wilmington, Del., and Philadelphia, Pa. Children's dresses and rompers. No. 150,968; Jan. 10.
- Simplex Automobile Company, Inc., New York, N. Y. Automobiles. No. 159,761; Oct. 3.
- Simplex Automobile Company, Inc., Long Island City, N. Y. Automobiles. No. 160,666; Oct. 24.
- Simplex Electrical Company, Boston, Mass. Insulated conducting wire. No. 18,552; renewed Oct. 28, 1920.
- Simplex Radio Company, Philadelphia, Pa. Certain electrical apparatus for radio signaling. No. 161,028; Oct. 31.
- Simplex Tire & Rubber Company, Chicago, Ill. Pneumatic rubber tires. No. 160,018; Oct. 10.
- Simplex Windshield Wing Co., Chicago, Ill. Windshields for motor vehicles. No. 152,999; Mar. 7.
- Simpo Füllfeder-Gesellschaft Voss, Lausen & Dziambor. Fountain pens. No. 160,667; Oct. 24.
- Simpson, Annette E., New York, N. Y. Ladies' wearing apparel. No. 152,046; Feb. 14.
- Simpson, John T., Palmyra, Va. Preparation used externally for pneumonia, throat and lung affections. No. 153,855; Mar. 28.
- Simpson-Walther Lens Co. Inc., Rochester, N. Y. Ophthalmic-lens blanks and ophthalmic lenses. No. 154,387; Apr. 11.
- Simpson, Wm., Sons & Co., Philadelphia, Pa. Cotton goods in the piece. No. 156,924; July 18.
- Sims, James E., Oradell, N. J. Certain chemical preparation. No. 152,271; Feb. 21.
- Sinclair, Harold A., New York, N. Y. Gelatine. No. 154,698; Apr. 18.
- Sinclair, John Ltd., Newcastle-on-Tyne, England. Tobacco, cigars, cigarettes. No. 154,152; Apr. 4.
- Sinclair, John Ltd., Newcastle-on-Tyne, England. Smoking and chewing tobacco, cigars, and cigarettes. No. 154,153; Apr. 4.
- Sinclair, John Ltd., Newcastle-on-Tyne, England. Smoking tobacco, chewing tobacco, cigars, and cigarettes. No. 155,527; May 30.
- Sinclair, John Ltd., Newcastle-on-Tyne, England. Smoking tobacco. No. 158,812; Sept. 12.
- Sinclair, John Ltd., Newcastle-on-Tyne, England. Smoking tobacco and cigarettes. No. 160,351; Oct. 17.
- Sinclair, John Ltd., Newcastle-on-Tyne, England. Smoking tobacco and cigarettes. No. 160,668; Oct. 24.
- Sinclair Mfg. Company, The, Toledo, Ohio. Chemical cleaner for ceramic materials. No. 157,388; Aug. 1.
- Sinclair Millitor Corporation, New York, N. Y. Motor cycles, side cars, and trailers. No. 157,206; July 25.
- Sinclair Refining Company, Chicago, Ill. Lubricating oil. No. 153,531; Mar. 21.
- Sinclair, Robert, Tobacco Company, Limited, The, Newcastle-upon-Tyne, England. Cigarettes and smoking tobacco. No. 150,969; Jan. 10.
- Sinclair, Robert, Tobacco Company Limited, The, Newcastle-upon-Tyne, England. Smoking tobacco. No. 150,970; Jan. 10.
- Sinclare, A. C., Co., New York, N. Y. Chemical rust remover. No. 158,301; Aug. 29.
- Singer, Louis D., trading as The Singerine Flower Co., Harrodsburg, Ky. Artificial wreaths and floral decorations. No. 160,019; Oct. 10.
- Singer Manufacturing Company, The, Elizabeth, N. J., and New York, N. Y. Family and manufacturing sewing machines, their parts, and attachments. No. 154,081; May 16.
- Singer Manufacturing Company, The, New York, N. Y. Electric motors for sewing machines and controllers therefor. No. 161,905; Nov. 21.
- Singerine Flower Co., The. (See Singer, Louis D.)
- Sinnock & Sherrill, New York, N. Y. Masonic and other society emblems. No. 20,250; renewed Oct. 20, 1921.
- Sioux Candy Co., Sioux City, Iowa. Candies. No. 157,284; July 25.
- Sioux Candy Co., Sioux City, Iowa. Chocolate candy. No. 157,768; Aug. 15.
- Sioux Falls Coffee & Spice Co., Sioux Falls, S. D. Roasted coffee. No. 151,601; Feb. 7.
- Sip and A Bite Company, The. (See Zorn, Walter M., assignor.)
- Sitroux Importing Company, Inc., New York, N. Y. Hair nets. Nos. 155,082-5; May 16.
- Sitroux Importing Company, Inc., New York, N. Y. Hair nets and veils. No. 155,528; May 30.
- Sitroux Importing Company, Inc., New York, N. Y. Hair nets. Nos. 157,582-3; Aug. 8.
- Sitroux Importing Company, Inc., New York, N. Y. Hair nets. No. 158,095; Aug. 22.
- Skantze, Henry, & Co., Gottenborg, Sweden. Shoe creams. No. 162,593; Dec. 19.
- Skelton Tool Co., Syracuse, N. Y. Reamers, boring bars, special metal-working tools, machine guards. No. 159,524; Sept. 26.

- Skinner, L. B., Dunedin, Fla. Fresh citrus fruits. No. 152,076; Feb. 14.
- Skinner, William, & Sons, New York, N. Y., and Holyoke, Mass. Silk and silk and cotton fabrics in the piece. No. 154,388; Apr. 11.
- Skinner, William, & Sons, New York, N. Y., and Holyoke, Mass. Silks in the piece. No. 156,421; June 20.
- Skookum Packers Association, Seattle and Wenatchee, Wash. Monthly publication. No. 162,369; Dec. 12.
- Skybryte Company, The, Cleveland, Ohio. Preparation for cleaning and removing dirt, grit, etc., from glass and other glazed surfaces. No. 159,525; Sept. 26.
- Slagle, Flavius T., Columbus, Ohio. Mineral water. No. 154,162; Apr. 4.
- Slattery, E. T., Company, Boston, Mass. Toothbrushes. No. 158,096; Aug. 22.
- Slaughter, Emory E., Gloucester, Ohio. Eyewater. No. 151,948; Feb. 14.
- Sleep-Well Mattress Co., Chicago, Ill. Mattress. No. 150,572; Jan. 3.
- Sleight, M. W., Dallas and Cuero, Tex. Poultry food. No. 160,969; Oct. 31.
- Slick Drug Co., The. (See Schlichtmann, Philip J.)
- Sloan, Dr. Earl S., Incorporated, Wilmington, Del., New York, N. Y., and St. Louis, Mo. Liniment. No. 150,573; Jan. 3.
- Sloane, W. & J., New York, N. Y. Certain office and household furniture. No. 151,949; Feb. 14.
- Sloma, Stanislaw, Depew, N. Y. Palliative for throat diseases and malignant growths in throat. No. 152,272; Feb. 21.
- Small, L. K., Company, Los Angeles, Calif. Fresh citrus and deciduous fruits and fresh vegetables. No. 151,950; Feb. 14.
- Small, L. K., Company, Los Angeles, Calif. Fresh citrus fruits. No. 160,970; Oct. 31.
- Small, Marvin S., Brooklyn, N. Y. Indigestion corrective. No. 154,389; Apr. 11.
- Smallwood Stone Company, The, Steubenville, Ohio. Pulp stones for wood-pulp-working machines. No. 161,628; Nov. 14.
- Smaltz-Goodwin Company, Philadelphia, Pa. Ladies' shoes. No. 154,699; Apr. 18.
- Smaltz-Goodwin Company, Philadelphia, Pa. Ladies' shoes of leather and of fabric. No. 155,086; May 16.
- Smedley, John, Ltd. (See Smedley, John, assignor.)
- Smedley, John, Lea Mills, near Derby, England, assignor to John Smedley, Ltd. Hosiery. No. 20,906; renewed Mar. 29, 1922.
- Smile Company, The, Topeka, Kans. Roasted coffee. No. 151,951; Feb. 14.
- Smile Company, The, Minneapolis, Minn. Sugar preparation from fruit acid for making sherbet, ices, cake frosting. No. 151,952; Feb. 14.
- Smile Company, The, Topeka, Kans. Roasted coffee. No. 162,022; Nov. 28.
- Smith, A. L., Iron Works, The, Chelsea, Mass. Columns consisting of a metal shell with concrete or like filling. No. 153,000; Mar. 7.
- Smith, Absalom, Eau Claire, Wis. Certain ointment. No. 160,971; Oct. 31.
- Smith, Arthur F., Company, Inc., New York, N. Y. Waterproof fabrics in the piece, tents, awnings, etc. No. 154,154; Apr. 4.
- Smith, Arthur L., Motors, Inc., Portland, Oreg. Manifolds, fuel economizers for hydrocarbon internal combustion motors. No. 150,971; Jan. 10.
- Smith Brothers, Inc., Poughkeepsie, N. Y. Candy. Nos. 160,972-3; Oct. 31.
- Smith, C. D., Drug Company, St. Joseph, Mo. Bathing alcohol. No. 153,856; Mar. 28.
- Smith, Caleb, doing business as Seneca Knitting Company, Seneca Falls, N. Y. Hosiery. No. 159,104; Sept. 19.
- Smith, Carolyn S., doing business as Vitalized Water Process Co., New York, N. Y. Filters. No. 159,526; Sept. 26.
- Smith, Conrad T., New York, N. Y. Millinery lacquer. No. 159,527; Sept. 26.
- Smith, Conrad T., New York, N. Y. Millinery glue. No. 159,528; Sept. 26.
- Smith, De Wane B., doing business as D. B. Smith & Company, Utica, N. Y. Sprayers, pumps, force pumps, atomizers for liquid and powder insecticides, etc. No. 162,119; Dec. 5.
- Smith & Dove Mfg. Co., Andover, Mass. Linen thread. No. 154,155; Apr. 4.
- Smith & Dove Mfg. Co., Andover, Mass. Linen thread. No. 159,762; Oct. 3.
- Smith & Dove Mfg. Co., Andover, Mass. Linen thread. No. 160,296; Oct. 17.
- Smith, Edith S., Watertown, N. Y. Cloth dolls. No. 151,358; Jan. 31.
- Smith, Frank S., Los Angeles, Calif. Golf games and putting devices. No. 161,983; Nov. 28.
- Smith, George F., Woodboro, Md. Dental cream. No. 150,574; Jan. 3.
- Smith, Gilman B., Company, Inc., New York, N. Y. Buttonhole strips or tapes. No. 151,305; Jan. 24.
- Smith, Gilman B., Company, Inc., New York, N. Y. Certain named notions. No. 156,550; June 27.
- Smith, Gilman B., Company Inc., New York, N. Y. Drawer petticoat, and boys' pants bands, neckbands, and petticoat waists. No. 162,989; Dec. 26.
- Smith, H. D., & Company, The, Plantsville, Conn. Screw drivers. No. 162,894; Dec. 26.
- Smith & Hemenway Company, Inc., New York, N. Y., and Irvington, N. J. Glass cutters. No. 156,055; June 13.
- Smith and Hemenway Company, Inc., New York, N. Y. Pliers. No. 156,422; June 20.
- Smith & Hemenway Company Inc., New York, N. Y., and Irvington, N. J. Certain tools. No. 162,120; Dec. 5.
- Smith, Hogg & Co., New York, N. Y. Cotton goods in the piece. No. 156,423; June 20.
- Smith, J. Hungerford, Grape Juice Co., doing business as Michigan Grape Products Co., Lawton, Mich. Grape juice. No. 158,706; Sept. 12.
- Smith, Jare B., doing business as Jane B. Smith, Chicago, Ill. Salad dressing, foods, and ingredients of foods. No. 158,541; Sept. 5.
- Smith-Kirk Candy Co., The, Toledo, Ohio. Candy. No. 153,305; Mar. 14.
- Smith-Kirk Candy Co., The, Toledo, Ohio. Candy suckers. No. 155,835; June 6.
- Smith-Kirk Candy Co., The, Toledo, Ohio. Chocolates, candies, peanut butter, and bonbons. No. 158,056; June 13.
- Smith-Kirk Candy Co., The, Toledo, Ohio. Chocolates and candy. No. 156,057; June 13.
- Smith, L. C., & Bros. Typewriter Co., Syracuse, N. Y. Typewriting machines and parts thereof. No. 154,844; May 9.
- Smith, Louis H., Chicago, Ill. Automobile radiator caps. No. 160,669; Oct. 24.
- Smith Mfg. Co., Utica, N. Y. Spraying solution. No. 159,224; Sept. 19.
- Smith Manufacturing Co. Inc., Ellensburg, Wash. Toy bicycle. No. 158,097; Aug. 22.
- Smith, Margaret J., trading as Uza Manufacturing Co. (not Inc.), Chicago, Ill. Curtain holders. No. 159,529; Sept. 26.
- Smith-McCord-Townsend Dry Goods Co., Kansas City, Mo. Sweaters, bathing suits, knitted caps, infants' sacks, etc. No. 155,356; May 23.
- Smith, Michael P., doing business as Victory Manufacturing Co., Boston, Mass. Hair grower and hair tonic. No. 160,974; Oct. 31.
- Smith, Nellie V., New York, N. Y. Cold-cream preparation. No. 156,424; June 20.
- Smith, Robert W., Salt Lake City, Utah. Combined writing paper and envelope. No. 160,670; Oct. 24.
- Smith Rubber & Tire Co. Inc., Garfield, N. J. Rubber automobile tires. No. 154,845; May 9.
- Smith, S., & Sons, (M. A.) Ltd., London, England. Certain indicators, inclinometers, etc. No. 153,857; Mar. 28.
- Smith Scale Company, The, Columbus, Ohio. Weighing scales. No. 154,452; Apr. 11.
- Smith Shoe Co. Inc., Lynn, Mass. Leather and fabric boots, shoes, and slippers and rubbers. No. 158,814; Sept. 12.
- Smith, W. T., & Son, Inc., Philadelphia, Pa. Fabric known as a royal Turkish rug. No. 156,925; July 18.
- Smith, Walter D., Rosedale, Kans. Blank account books. No. 159,530; Sept. 26.
- Smith, F. L., Machine Company Incorporated, New York, N. Y. Machines for making envelopes. No. 152,506; Feb. 28.
- Smith's, Dr., Stock-Vigor Remedies Company, Atlanta, Ga. Certain medicines for stock, horses, dogs, and poultry. No. 158,098; Aug. 22.
- Smith's, M. A., Sons, Philadelphia, Pa. Leather shoes. No. 154,700; Apr. 18.
- Smolin-Hartman & Co., New York, N. Y. Yarns. No. 150,575; Jan. 3.
- Smoot, C. C., & Sons Co., Alexandria, Va. Leather. No. 152,632; Feb. 28.
- Smooth-On Manufacturing Company, Jersey City, N. J. Ready-mixed paints. No. 153,001; Mar. 7.
- Smyrna Fruits Co. Inc., New York, N. Y. Preserved figs and dates. No. 154,701; Apr. 18.
- Smythe, J. L. N., Company, The, Philadelphia, Pa. Imitations of or substitutes for gold and silver leaf. No. 155,087; May 16.
- Snaplok Company, Cleveland, Ohio. Window-light frames for vehicle tops. No. 160,671; Oct. 24.
- Snearley, Walter T., Oakland, Calif. Chemical ink powder used in the making of writing inks. No. 151,407; Jan. 31.
- Snider & Cazel, Wilmette, Ill. Fudge. No. 158,302; Aug. 29.
- Snipes, Emmet, Searcy, Ark. Liquid preparation for all skin diseases. No. 156,425; June 20.
- Snow Flake Axle Grease Company, The, Boston, Mass. Axle greases and other lubricating oils and greases. No. 155,088; May 16.
- Snow, Maggie S., Charlottesville, Va. Certain medicinal preparations. No. 156,926; July 18.
- Snow White Products Company. (See Moritz, Melvin.)
- Snowite Laboratories, The. (See Hastings, George T.)
- Snows Candy Corporation, Chicago, Ill. Candy. No. 160,975; Oct. 31.
- S'Nuff Smoke Sales Co., New York, N. Y. Cigarette snuffers, ash trays, match stands, etc. No. 155,529; May 30.
- Snuffo Company, Chicago, Ill. Medical compound for treating colds, coughs, hay fever, catarrh, etc. No. 158,099; Aug. 22.

Alphabetical list of registrants of trade-marks—Continued.

- Snyder Chaffee Company, The, Columbus, Ohio. Candy. No. 150,576; Jan. 3.
- Snyder, J. H., Med. Co., Jonesboro, Ark. Epsom salts, powdered borax, lump and powdered alum, etc. No. 155,530; May 30.
- Snyder's, Mrs., Whipped Cream Chocolates, Chicago, Ill. Candy. No. 154,702; Apr. 18.
- Soap, Paste. R. E. Hoyt. No. 152,428; Feb. 28.
- Société Anonyme des Anciens Etablissements Sequeville & Hoyau, Gennevilliers, France. Automobiles. No. 153,308; Mar. 14.
- Société Anonyme des Anciens Etablissements Muylle-Facon Roulers, Belgium. Putty, paints, and varnishes. No. 158,542; Sept. 5.
- Société Anonyme des Ateliers Borel-Profil, Peseux, Switzerland. Cutlery, machinery, and tools. Nos. 150,972-3; Jan. 10.
- Société Anonyme des Parfums d'Arys, Courbevoie, France. Perfumes, eau de cologne, toilet cream, face lotions, etc. No. 152,273; Feb. 21.
- Société Anonyme des Produits du Lion Noir, Montrouge, near Paris, France. Certain chemical compounds. Nos. 161,629-30; Nov. 14.
- Société Anonyme des Produits du Lion Noir, by Nicolas A. F. George (administrator), Montrouge, near Paris, France. Certain polishes, waxes, and preservatives. No. 161,631; Nov. 14.
- Société Anonyme des Produits du Lion Noir, by Nicolas A. F. George, administrator, Montrouge, near Paris, France. Certain named paints and wax polishes. No. 162,370; Dec. 12.
- Société Anonyme des Usines Giuliani, Basel, Switzerland. Fluxes for soldering and welding. No. 152,274; Feb. 21.
- Società Anonima Itala Film, Turin, Italy. Cinematograph films. No. 157,207; July 25.
- Société Chimique des Usines du Rhone, Paris, France. Photographic developers. No. 153,858; Mar. 28.
- Société Chimique des Usines du Rhone, Paris, France. Hypnotic analgetic. No. 153,859; Mar. 28.
- Société Chimique des Usines du Rhone, Paris, France. Antirheumatic analgetic. No. 153,860; Mar. 28.
- Société Chimique des Usines du Rhone, Paris, France. Preparation for causing narrowness of blood vessels. No. 153,861; Mar. 28.
- Société Chimique des Usines du Rhone, Paris, France. Local anesthetic. No. 153,862; Mar. 28.
- Société Chimique des Usines du Rhone, Paris, France. Preparation for treatment of gout. No. 153,863; Mar. 28.
- Société Chimique des Usines du Rhone, Paris, France. Trypanocid. No. 153,864; Mar. 28.
- Société Civile des Héritiers de P. Basset, Tassin la Demi-Lune, France. General analgesic and medicine for neuralgia, toothache, etc. No. 156,058; June 13.
- Société Civile des Héritiers de P. Basset, Tassin la Demi-Lune, Rhone, France. General analgesic and medicine for neuralgia, headache, toothache, rheumatism, and grippe. No. 157,285; July 25.
- Société des Appareils Mécaniques d'Hygiène Buccale, Paris, France. Instrument for massaging the gums. No. 159,763; Oct. 3.
- Société des Plaques et Poudres à Souder J. Laffitte, Paris, France. Welding plates and powders, brazing and tempering powders. No. 159,105; Sept. 19.
- Société des Usines Curial, Paris, France. Metal-working tools, taps, dies, reamers, &c. No. 152,507; Feb. 28.
- Société Française de Cotons à Coudre (Société Anonyme), Paris, France. Cotton thread. Nos. 151,234-5; Jan. 24.
- Société Française de Cotons à Coudre (Société Anonyme), Paris, France. Piece goods in the form of cotton lace. Nos. 152,508-9; Feb. 28.
- Société Française d'Orfèvrerie d'Art, Paris, France. Boxes, baskets, cups and saucers, knives, forks, glassware, etc. No. 153,307; Mar. 14.
- Société Générale de Coutellerie & Orfèvrerie, Paris, France. Articles of cutlery. Nos. 156,756-7; July 11.
- Société Générale des Eaux Minérales de Vittel, Vittel, France. Natural mineral waters. Nos. 155,531-2; May 30.
- Société Industrielle d'Impressions et de Tissus d'Art, Paris, France. Printed, pressed, ornamented or decorated, knitted, netted, and textile fabrics. No. 160,672; Oct. 24.
- Société La France Toilet Goods Co., Inc., New York, N. Y. Certain toilet preparations. No. 160,297; Oct. 17.
- Société P. & A. Picard, Paris, France. Steel mortise and rim locks. No. 158,303; Aug. 29.
- Société Rodier, Paris, France. Cotton piece goods. No. 153,532; Mar. 31.
- Société Rodier, Paris, France. Piece goods of wool and of silk and of combinations of silk and wool. No. 159,750; Oct. 3.
- Société Rodier, Paris, France. Piece goods of cotton and of wool and combinations of same. No. 159,751; Oct. 3.
- Société Rodier, Paris, France. Woolen piece goods. No. 160,275; Oct. 17.
- Société Rodier, Paris, France. Woolen, merino, and cashmere piece goods. No. 160,673; Oct. 24.
- Société Rodier, Paris, France. Woolen piece goods. No. 162,504; Dec. 19.
- Sociëit voor Chemische Industrie "Katwijk," Katwijk aan Zee, Netherlands. Theobromine sodium acetate. No. 154,390; Apr. 11.
- Society of Chemical Industry in Basle, Basel, Switzerland. Malt extract. No. 153,865; Mar. 28.
- Society of Chemical Industry in Basle, Basel, Switzerland. General tonic. No. 153,866; Mar. 28.
- Society of Chemical Industry in Basle, Basel, Switzerland. Medicine to produce twilight sleep. No. 155,836; June 6.
- Society of Chemical Industry in Basle, Basel, Switzerland. Local anesthetic. No. 156,426; June 20.
- Society of Chemical Industry in Basle, Basel, Switzerland. Oxytocic. No. 156,427; June 20.
- Society of Chemical Industry in Basle, Basel, Switzerland. Chemical and pharmaceutical preparation. No. 158,543; Sept. 5.
- Society of Chemical Industry in Basle, Basel, Switzerland. Coal-tar colors. No. 161,838; Nov. 21.
- Socolof, Jos., Co., Brooklyn, N. Y. Canned fish. No. 151,953; Feb. 14.
- Soenksen-Wolff-Spiers Company, Inc., Aurora, Ill. Oil-cushion tappets. No. 157,286; July 25.
- Soffos, Theodore G., New York, N. Y. Liquid preparation for the hair and scalp. No. 153,867; Mar. 28.
- Sofge, John, Cincinnati, Ohio. Paper for household use. No. 153,533; Mar. 21.
- Sohl & Company, Seattle, Wash. Wood products. No. 153,308; Mar. 14.
- Sohon System, New York, N. Y. Children's play dresses. No. 154,703; Apr. 18.
- Solacene. (See Tizzard, Samuel B.)
- Solar Electric Company, Chicago, Ill. Soap. No. 162,595; Dec. 19.
- Solmes, J. A. and R. E., St. Paul, Minn. Ladies' aprons, house dresses, and dresses of cotton material for street and outdoor wear. No. 158,815; Sept. 12.
- Solomons, Harry, & Son, New York, N. Y. Ladies' hats. No. 156,927; July 18.
- Solow, N., New York, N. Y. Solid-headed pins. No. 153,534; Mar. 21.
- Solow, N., New York, N. Y. Pins. No. 155,837; June 6.
- Solow, N., New York, N. Y., assignor to William Prym Co., Ltd., Stolberg, Rhineland, Germany. Pins, hooks and eyes, and snap fasteners. No. 162,895; Dec. 26.
- Solow, N., New York, N. Y., assignor to William Prym Co., Ltd., Stolberg, Rhineland, Germany. Snap fasteners. No. 162,990; Dec. 26.
- Solvano Chemical Co., Wilmington, Del. Carbon remover of a chemical nature. No. 158,100; Aug. 22.
- Somervell Brothers Limited, Kendal, England. Boots and shoes all made of leather. No. 150,974; Jan. 10.
- Somerville Brush Company, Somerville, Mass. Certain mops, brushes, and dusters. No. 160,674; Oct. 24.
- Sonneborn, Henry, & Co. Inc., Baltimore, Md. Men's and boys' hats and caps. No. 157,584; Aug. 8.
- Sonnenfeld, Joseph, Brooklyn, N. Y. Cigars. No. 153,002; Mar. 7.
- Sonnenschein, J., Hop Company, Inc., New York, N. Y. Treated paper used in the making of cigarettes. No. 161,632; Nov. 14.
- Sonnenschein, Paul, New York, N. Y., and Prague, Bohemia. Hops. No. 151,246; Jan. 24.
- Sonny Blouse Co. Inc., The, New York, N. Y. Certain articles of clothing. No. 159,106; Sept. 19.
- Sonora, Inc., New York, N. Y. Talking machines, phonographs, music boxes. No. 150,975; Jan. 10.
- Sonora, Inc., New York, N. Y. Talking machines, phonographs, and music boxes. No. 156,817; July 11.
- Sonora, Inc., New York, N. Y. Talking machines and phonographs. No. 161,800; Nov. 7.
- Sopkin Brothers, Chicago, Ill. Aprons and apron dresses. No. 161,633; Nov. 14.
- Sopshin, Max, doing business as Split Rock Bottling Works, Mount Vernon, N. Y. Nonalcoholic, maltless, celery tonic beverage. No. 158,101; Aug. 22.
- Sorbo Rubber-Sponge Products Ltd., Woking, England. Playing balls, toys, leg guards, and gloves made of rubber sponge. No. 151,954; Feb. 14.
- Sorensen, Soren T., St. Paul, Minn. Girls' leather shoes. No. 162,121; Dec. 5.
- Sorg Manufacturing Company. (See Finkel, Abraham D.)
- Soss Manufacturing Co., Brooklyn, N. Y. Windows or lights for automobile tops and curtains. No. 162,652; Dec. 19.
- Sotomayor, Compania Anonima Comercial, Cordova, Spain, and New York, N. Y. Olive oil. No. 151,955; Feb. 14.
- Suchon Riom & Cie., Paris, France. Cotton goods in the piece. No. 161,634; Nov. 14.
- Soule, Edward L., San Francisco, Calif. Certain iron and steel products. No. 152,510; Feb. 28.
- Soule, J. W., Barstow, Calif. Remedy for use in treatment of piles. No. 161,301; Nov. 7.
- Soulé Steam Feed Works, Meridian, Miss. Steam engines. No. 161,839; Nov. 21.
- Souter, Nell, Redkey, Calif. Women's, misses', and children's outer garments. No. 156,059; June 13.
- South Bend Bait Company, South Bend, Ind. Fishing tackle. No. 151,048; Jan. 10.
- South Bend Co., South Bend, Ind. Fishing lures. No. 154,453; Apr. 11.
- South Bend Wholesale Grocery Company, South Bend, Ind. Table sirup, mustard, peanut butter, etc. No. 156,492; June 20.
- South East Missouri Melon Growers' Association, Kennett, Mo. Watermelons. No. 154,704; Apr. 18.

- Southall Bros. & Barclay Ltd. (See Southall Bros. & Barclay, assignors.)
- Southall Bros. & Barclay, Birmingham, England, assignor to Southall Bros. & Barclay, Ltd. Cod-liver oil and preparations of cod-liver oil. No. 21,106; renewed May 10, 1922.
- Southern Beverage Company, Galveston, Tex. Nonalcoholic, maltless beverages and sirups and extracts for making such beverages. No. 162,122; Dec. 5.
- Southern Cabinet & Furniture Co. Inc., New Orleans, La. Certain household furniture. No. 153,003; Mar. 7.
- Southern California Supply Co., The, Los Angeles, Calif. Beverage sold as a soft drink and sirup therefor. No. 159,643; Sept. 26.
- Southern California Supply Company, The, Los Angeles, Calif. Nonalcoholic, maltless beverage and extracts, flavors, and colors for making same. No. 158,816; Sept. 12.
- Southern Coal & Coke Company, The, Knoxville, Tenn. Coal. No. 151,247; Jan. 24.
- Southern Cotton Oil Company, The, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga., and Chicago, Ill. Prepared fatty oleaginous or unctuous food substances. Nos. 150,577-83; Jan. 3.
- Southern Cotton Oil Company, The, Jersey City, and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga., and Chicago, Ill. Paints. No. 153,004; Mar. 7.
- Southern Creamery Company, Muskogee, Okla. Butter. No. 153,621; Mar. 21.
- Southern Dyestuffs Company, Nitro, W. Va., and New York, N. Y. Dyestuffs. No. 161,302; Nov. 7.
- Southern Eatable Company, Dallas, Tex. Confection. No. 154,705; Apr. 18.
- Southern Electro Steel Company, Inc., Lynchburg, Va. Lawn mowers. No. 153,868; Mar. 28.
- Southern Fruit Julep Co., Fort Worth, Tex. Nonalcoholic, maltless beverage and sirup for same. Nos. 151,049-51; Jan. 10.
- Southern Glass Company, Los Angeles, Calif. Glass bottles. No. 160,020; Oct. 10.
- Southern Hardware & Supply Co., St. Louis, Mo. Lubricating oils. No. 161,984; Nov. 28.
- Southern Oil Corporation, Kansas City, Mo. Gasolene. No. 155,089; May 16.
- Southern Veterinary Remedies Company, Birmingham, Ala. Medical preparation for black tongue, sore mouth, and distemper. No. 150,584; Jan. 3.
- Southwestern Broom Mfg. Co., The, Evansville, Ind. Brooms. No. 153,309; Mar. 14.
- Southwestern Cracker Co., The, Wichita, Kans. Lemon, graham, and oatmeal biscuit, peanut, cream, and vanilla wafers; soda crackers, fig bars, gingersnaps. No. 159,644; Sept. 26.
- Southwestern Milling Company, Inc., The, New York, N. Y., and Kansas City, Mo. Wheat flour. No. 159,531; Sept. 26.
- Southwestern Pharmacal Company, Dallas, Tex. Antispasmodic and sedative preparations. No. 150,585; Jan. 3.
- Sozol Limited, London, England. Anticorrosive chemical compositions or compounds. No. 158,304; Aug. 29.
- Spa Baths Co. Inc., Saratoga Springs N. Y. Mineral and medical salt. No. 152,275; Feb. 21.
- Spahr, Harry M., Woodboro, Md. Composition for the treatment of roup, colds, diphtheria, etc., among fowls. No. 155,533; May 30.
- Spalding, A. G., & Bros., New York, N. Y. Playing balls for athletic game. No. 151,359; Jan. 31.
- Spalding, A. G., & Bros., New York, N. Y. Sweaters, Jerseys, and baseball suits. No. 151,960; Feb. 14.
- Spalding, A. G., & Bros., New York, N. Y. Golf balls. No. 160,298; Oct. 17.
- Sparks, Sarah J., San Francisco, Calif. Blood medicine and cancer salve. No. 160,809; Oct. 24.
- Spatola, Felix, & Sons, Philadelphia, Pa. Canned fruits and vegetables, salad oil, cocoa, and shortening. No. 158,341; Aug. 29.
- Spear, George, Paterson, N. J. Hair tonic, shampoo, and an external liniment. No. 156,429; June 20.
- Spector & Son Piano Co., Inc., The, New York, N. Y. Grand and upright pianos, player pianos, and electrically-operated pianos. No. 156,758; July 11.
- Speedbo Neckwear Company, Kansas City, Mo. Ties and cravats. No. 151,248; Jan. 24.
- Spence, William R., Ogden, Utah. Medicine used in the treatment of whooping cough. No. 155,839; June 6.
- Spencer, Bessie M., New York, N. Y. Cheese sticks made of pastry or dough material and cheese. No. 160,976; Oct. 31.
- Spencer, Elizabeth B., Wilkes-Barre, Pa. Liniment and preparation for certain uses. No. 151,961; Feb. 14.
- Spencer, George, Moulton & Co. Ltd., London, and Westminster, London, England. India-rubber tires and inner tubes. No. 160,021; Oct. 10.
- Spencer, George C., South Bend, Ind. Perfumes. No. 154,391; Apr. 11.
- Spencer, Harold R., New York, N. Y. Chemical for removing dirt and stains. No. 150,586; Jan. 3.
- Spencer, Helen S., Denver, Colo. Certain articles electrically heated. No. 153,005; Mar. 7.
- Spencer, Le Roy, also operating as The Home Supply, Chicago, Ill. Malt extract, gelatine, and hops for making nonintoxicating malt beverages. No. 157,436; Aug. 1.
- Sperry Flour Company, San Francisco, Calif. Sperry Flour Company. No. 153,622; Mar. 21.
- Sperry Flour Company, San Francisco, Stockton, Fresno, Vallejo, Los Angeles, Calif.; Creston, Spokane, and Tacoma, Wash., and Ogden, Utah. Wheat flour. No. 159,532; Sept. 26.
- Sperry, Paul A., West Haven, Conn. Duck decoys. No. 162,023; Nov. 28.
- Sperry, Paul A., West Haven, Conn. Duck decoys. No. 162,991; Dec. 26.
- Sphagnum Products Company, Portland, Oreg. Surgical or sanitary bandage. No. 153,310; Mar. 14.
- Spiceland Sanitarium, The, Spiceland, Ind. Natural alkaline, saline, carbonated water. No. 150,976; Jan. 10.
- Spiegel, Max, & Sons Co., Inc., New York, N. Y. Cigarette papers. No. 153,535; Mar. 21.
- Spieker's, Dr., Bulgarian Yoghurt Corporation, New York, N. Y. Sour milk. No. 159,533; Sept. 26.
- Spilton & Glanzrock, New York, N. Y. Men's and boys' suits, overcoats, topcoats, trousers, etc. No. 161,635; Nov. 14.
- Spinim Co., The, New York, N. Y. Rotatable dice. No. 152,511; Feb. 28.
- Spitz, Fannie S., Albuquerque, N. Mex. Shelled, raw, roasted, and salted piñon nuts. No. 160,675; Oct. 24.
- Spitzer, Rudolph, New York, N. Y. Certain piece goods. No. 152,276; Feb. 21.
- Split Rock Bottling Works. (See Sopshin, Max.)
- Spoch's, Chicago, Ill. Hard and soft candies. No. 154,706; Apr. 18.
- Spokane Dry Goods Company, Spokane, Wash. Men's outer shirts. No. 154,707; Apr. 18.
- Spokesfield & Sprenger, Inc., San Francisco, Calif. Rubber heels. No. 154,708; Apr. 18.
- Spokesman Publishing Company, The, Cincinnati, Ohio. Journal published monthly. No. 159,107; Sept. 19.
- Spoon Products, The. (See Witherspoon, Thomas S.)
- Spray Engineering Company, Boston, Mass. Water and other liquid spraying systems and parts of said systems. No. 158,102; Aug. 22.
- Spring Knit Hosiery Co., Philadelphia, Pa. Hosiery for women, misses, and children. No. 161,303; Nov. 7.
- Spring Mfg. Co., The, Meriden, Conn. Liquid cleaner for automobile windshields, windows, etc. No. 155,840; June 6.
- Springdale Vinegar Company, Springdale, Ark. Pure sugar vinegar. No. 162,123; Dec. 5.
- Springdale Vinegar Company, Springdale, Ark. Pure apple-cider vinegar. No. 162,596; Dec. 19.
- Springer Chocolate Co. Inc., New York, N. Y. Candies. No. 156,928; July 18.
- Springfield Glazed Paper Co., Springfield, Mass. Coated papers. No. 154,163; Apr. 4.
- Springfield Seed Co., Springfield, Mo. Farm seed. No. 154,156; Apr. 4.
- Springfield Seed Co., Springfield, Mo. Farm seed. No. 155,841; June 6.
- Springstead, Ervin A., Palmetto, Fla. Fresh citrus fruits. No. 153,311; Mar. 14.
- Springville Canning Co., The, Springville, N. Y. Canned fruits and vegetables. No. 157,770; Aug. 15.
- Square D Company, Detroit, Mich. Porcelain insulating devices. No. 158,544; Sept. 5.
- Srofe, Jesse, trading as J. Srofe Company, Cincinnati, Ohio. Toy blocks. No. 157,389; Aug. 1.
- Staadecker & Co., Seattle, Wash. Ladies' trimmed hats. No. 156,929; July 18.
- Sta-Brite Cutlery Company, The, New Haven, Conn. Kitchen and table knives and forks made of base metal. Nos. 161,906-7; Nov. 21.
- Stacy, Eugene C., Tiffin, Ohio. Load binders. No. 156,759; July 11.
- Stadium Underwear Co. Inc., Baltimore, Md. Pyjamas, robes, and combination sets of pyjamas and robes. No. 157,208; July 25.
- Stafford, George A., New York, N. Y. Woven cotton fabrics in the piece. No. 155,287; May 23.
- Stafford, George A., New York, N. Y. Woven cotton fabrics in the piece. No. 155,534; May 30.
- Stafford, S. S., Inc., New York, N. Y. Nonspatter type-cleaner. No. 157,771; Aug. 15.
- Stafford, S. S., Inc., New York, N. Y. Furniture polish. Nos. 158,817-18; Sept. 12.
- Stahl, Eidman & Company, Inc., Baltimore, Md. Coffee. No. 162,597; Dec. 19.
- Stahl, Francis X., Cincinnati, Ohio. Phonograph cabinets. No. 159,108; Sept. 19.
- Stahr, J. H., St. Louis, Mo. Metal polish. No. 157,772; Aug. 15.
- Stam, Benjamin I. J., Stoughton, Mass. Shoes made of leather, rubber, fabric, compositions, and combinations thereof. No. 151,956; Feb. 14.
- Stambaugh & Rabe, Auburndale, Fla. Citrus fruits in their natural state. No. 162,598; Dec. 19.
- Stamelis Douras Cigarette Co. (See Ballis, Emanuel R.)
- Stamets, William K., Pittsburgh, Pa. Certain metal-working and other machinery. No. 153,006; Mar. 7.
- Stamos, Marianthi F., Canajoharie, N. Y. Cream for beautifying the skin. No. 150,587; Jan. 3.

Alphabetical list of registrants of trade-marks—Continued.

- Stamsocott Company, Incorporated, The, Hopewell, Va. Paper pulp. No. 155,842; June 6.
- Standard Tilton Milling Co., St. Louis, Mo. Wheat flour. No. 160,022; Oct. 10.
- Standard Asphalt & Refining Co., Chicago, Ill. Expansion-joint fillers for street pavements, alleys, roads, &c. No. 152,512; Feb. 28.
- Standard Auto Parts Co. of America, Newark, N. J. Electric signal lamps, particularly for motor vehicles. No. 157,288; July 25.
- Standard Bottling Co. Inc., Newark, N. J. Nonalcoholic, maltless beverages sold as soft drink. No. 153,007; Mar. 7.
- Standard Bottling Company, Limited, Medicine Hat, Alberta, Canada. Nonalcoholic maltless beverage and sirups and extracts for making same. No. 158,103; Aug. 22.
- Standard Bottling Company, Newark, N. J., assignor to Cherry Blossom Mfg. Co., Newton, Iowa. Non-alcoholic, noncereal, maltless beverages and sirups for making same. No. 151,249; Jan. 24.
- Standard Bottling and Extract Co., Boston, Mass. Sirup for making nonalcoholic beverages. No. 151,360; Jan. 31.
- Standard Candy Co., Duluth, Minn. Candies. No. 156,060; June 13.
- Standard Comb Company, Leominster, Mass. Combs, pendants, hair ornaments, and bag frames of celluloid. No. 158,819; Sept. 12.
- Standard Comfort Window Corporation, New York, N. Y. Windows and window frames. No. 159,764; Oct. 3.
- Standard Conveyor Company, North St. Paul, Minn. Conveyers and elevators and spirals and parts thereof. No. 150,977; Jan. 10.
- Standard Corrugated Box Co., St. Louis, Mo. Strawboard boxes. No. 159,535; Sept. 26.
- Standard Crayon Manufacturing Co., Danvers, Mass. Wax and chalk crayons. Nos. 159,536-41; Sept. 26.
- Standard Crayon Manufacturing Co., Danvers, Mass. Wax and chalk crayons. Nos. 160,676-7; Oct. 24.
- Standard Felt Company, West Alhambra, Calif. Shoes, boots, and slippers made of felt. No. 159,225; Sept. 19.
- Standard Knitting Mills, The, Los Angeles, Calif. Clothing. No. 161,380; Nov. 7.
- Standard Malt Product Co. (See Rosenfeld, M. C., Company.)
- Standard Match Corporation, The, Garfield, N. J. Matches. No. 153,536; Mar. 21.
- Standard Medical Company. (See Davis, Wm. D.)
- Standard Motor Service Company. (See Lewenthal, Edward A.)
- Standard Motor Truck Company, Detroit, Mich. Motor trucks, chassis, and bodies. No. 151,306; Jan. 24.
- Standard Neckwear Company. (See Greaney, Thomas E.)
- Standard Oil Company, Bayonne, N. J. Petroleum ether. No. 150,588; Jan. 3.
- Standard Oil Company, San Francisco, Calif. Certain heating and illuminating oils. No. 152,078; Feb. 14.
- Standard Oil Company, San Francisco, Calif. Oil of mirbane, benzol, xylol, ether, etc. No. 156,430; June 20.
- Standard Oil Company, San Francisco, Calif. Certain oils and lubricating oils and greases. No. 158,820; Sept. 12.
- Standard Oil Company, San Francisco, Calif. Certain heating and illuminating oils. No. 159,109; Sept. 19.
- Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J., and New York, N. Y. Nose and throat spray. No. 153,389; Mar. 14.
- Standard Oil Company, (Incorporated in New Jersey), Bayonne, N. J., and New York, N. Y. Ammonium sulphochthyolate. No. 153,869; Mar. 28.
- Standard Oil Company, (Incorporated in New Jersey), Bayonne, N. J., and New York, N. Y. Petrolatum. No. 153,870; Mar. 28.
- Standard Oil Company, (Incorporated in New Jersey), Bayonne, N. J. Mineral oil. No. 154,393; Apr. 11.
- Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J. White mineral oil. No. 154,808; May 9.
- Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J. Leather oils and polishes and paraffin wax for washing purposes. No. 154,846; May 9.
- Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J. Certain construction materials. Nos. 155,909-10; June 6.
- Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J. Floor oils and furniture and automobile polish. No. 155,911; June 6.
- Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J. Certain oils and greases. No. 156,145; June 13.
- Standard Oil Company, (Incorporated in New Jersey), Bayonne, N. J. Certain named oils, greases, and waxes. Nos. 156,551-2; June 27.
- Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J. Greases, oils, etc. No. 159,110; Sept. 19.
- Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J. Certain oils, greases, and waxes. No. 159,765; Oct. 3.
- Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J. Asphalt products, fluxes, and pitches. No. 159,766; Oct. 3.
- Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J. Certain oils and greases. No. 160,349; Oct. 17.
- Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J. Certain floor oils. No. 160,350; Oct. 17.
- Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J. Petrolatum, petrolatum greases and oils. No. 161,304; Nov. 7.
- Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J. White mineral oil used in the preparation of cold creams. No. 161,305; Nov. 7.
- Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J. Certain petroleum products. No. 161,638; Nov. 14.
- Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J. Lubricating oils. Nos. 162,371-80; Dec. 12.
- Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J. Crank-case-flushing oil. No. 162,896; Dec. 26.
- Standard Oil Company of New York. (See Devoe Manufacturing Co., The.)
- Standard Oil Company of New York, New York, N. Y. Medicinal oils for constipation, laundry wax, petroleum, disinfectants, and dyes. No. 152,277; Feb. 21.
- Standard Oil Company of New York, New York, N. Y. Paints, turpentine, varnishes, polishing oil. No. 153,008; Mar. 7.
- Standard Oil Company of New York, New York, N. Y. Petroleum and products of petroleum for illuminating, heating, etc. No. 155,090; May 16.
- Standard Oil Company of New York, New York, N. Y. Floor oilers, yarn mops, dust cloths, and yarn dust brushes. No. 158,821; Sept. 12.
- Standard Oil Company of New York, New York, N. Y. Crayons. No. 160,678; Oct. 24.
- Standard Oil Company of New York, New York, N. Y. Petroleum and products of petroleum with or without admixture of other materials. No. 161,636; Nov. 14.
- Standard Oil Company of New York, New York, N. Y. Refined petroleum for illuminating, heating, and power purposes. No. 161,637; Nov. 14.
- Standard Oil Company of New York, New York, N. Y. Soap. No. 162,381; Dec. 12.
- Standard Oil Company of New York, New York, N. Y. Candles. No. 162,599; Dec. 19.
- Standard Oil Company of New York, New York, N. Y. Lamp chimneys and reservoirs. No. 162,897; Dec. 26.
- Standard Oil Company of New York, New York, N. Y. Asphaltum. No. 162,898; Dec. 26.
- Standard Paper Co., Bellows Falls, Vt. Sealing tape. No. 153,537; Mar. 21.
- Standard Parts Company, The, Cleveland, Ohio. Axles for vehicles. Nos. 153,312-13; Mar. 14.
- Standard Playing Card Company. (See United States Playing Card Company, assignor.)
- Standard Playing Card Co., Chicago, Ill. Playing cards. No. 160,679; Oct. 24.
- Standard Products Company. (See Diederich, Marcellus.)
- Standard Red Cedar Chest Co., The, Altavista, Va. Cedar chests. No. 154,847; May 9.
- Standard Red Cedar Chest Co., The, Altavista, Va. Cedar chests. No. 155,535; May 30.
- Standard Refrigerator Company, Philadelphia, Pa. Refrigerators. No. 160,680; Oct. 24.
- Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Faucets. No. 162,899; Dec. 26.
- Standard School Equipment Co., Louisville, Ky. Certain school furniture and equipment. No. 159,111; Sept. 19.
- Standard Specialty Company. (See Deming, William L.)
- Standard Steel Car Company, Pittsburgh, Pa. Passenger automobiles. No. 153,623; Mar. 21.
- Standard Steel Works Company, Philadelphia, Pa. Springs for locomotives, locomotive tenders, and cars. No. 162,900; Dec. 26.
- Standard Steel Works Company, Philadelphia, Pa. Steel tires, steel-tired wheels, and solid rolled-steel wheels. No. 162,901; Dec. 26.
- Standard Textile Products Company, The, Youngstown, Ohio, and New York, N. Y. Oiled cloth. No. 153,009; Mar. 7.
- Standard Ultramarine Co., The, Huntingdon, W. Va. Laundry blue. No. 153,871; Mar. 28.
- Standard Ultramarine Co., The, Huntingdon, W. Va. Laundry blue. No. 154,394; Apr. 11.
- Standard Ultramarine Co., The, Huntingdon, W. Va. Ultramarine blue. No. 156,431; June 20.
- Standard Varnish Works, New York, N. Y. Certain varnish, driers, lacquer, filler, etc. No. 151,361; Jan. 31.
- Standard Varnish Works, New York, N. Y. Paint and varnish remover. No. 151,362; Jan. 31.
- Standard Veterinary Products Company. (See Goldenberg, Joseph G.)
- Standard Wall Paper Co., Hudson Falls, N. Y. Pulp colors and dry colors. No. 160,977; Oct. 31.
- Stanislowski, Joseph, Hammond, Ind. Healing oil for rheumatism, swelling, boils, etc. No. 159,112; Sept. 19.

- Stanke, William C., Hoboken, N. J. Wooden toy gun-boat on wheels. No. 157,390; Aug. 1.
- Stanley & Aylward, Limited, Toronto, Ontario, Canada. Certain articles plated with precious metal. No. 159,226; Sept. 19.
- Stanley, John T., Co. Inc., New York, N. Y. Oil soap. No. 162,382; Dec. 12.
- Stanley, William W., New York, N. Y. Waterproofed cotton duck and canvas. No. 150,978; Jan. 10.
- Stanley Works, The, New Britain, Conn. Screw drivers. No. 151,408; Jan. 31.
- Stanley Works, The, New Britain, Conn. Builders' and other hardware. No. 152,513; Feb. 28.
- Stanley Works, The, New Britain, Conn. Butts. No. 153,872; Mar. 28.
- Stanton, Joseph E., Montreal, Quebec, Canada. Preparation specific for epilepsy. No. 155,536; May 30.
- Star Bedding Co., St. Louis, Mo. Feather pillows. No. 153,538; Mar. 21.
- Star Company, New York, N. Y. Newspaper section. Nos. 159,113-14; Sept. 19.
- Star Extract Works, New York, N. Y. Nonalcoholic maltless beverage and extract. No. 158,104; Aug. 22.
- Star Milling Company, Statesville, N. C. Self-rising wheat flour. No. 150,589; Jan. 3.
- Star Motors Incorporated, New York, N. Y. Automobiles and constructive parts thereof. No. 160,681; Oct. 24.
- Star Rubber Company, The, Akron, Ohio. Pneumatic-tire casings. No. 151,962; Feb. 14.
- Star Sporting Goods Co., New York, N. Y. Gunning coats. No. 158,545; Sept. 5.
- Star Suspender Co., Philadelphia, Pa. Garters. No. 157,585; Aug. 8.
- Star Suspender Co., Philadelphia, Pa. Garters. Nos. 161,306-7; Nov. 7.
- Starbird, John H., Seattle, Wash. Beverages sold as soft drinks and sirups therefor. No. 159,217; Sept. 19.
- Starbird, John H., Seattle, Wash. Beverages sold as soft drinks and sirup therefor. No. 161,723; Nov. 14.
- Sta-Rite Hair Pin Co., Shelbyville, Ill. Hairpins. No. 158,822; Sept. 12.
- Stark Bros. Nurseries & Orchards Co., Louisiana, Mo. Fruit, vegetable, and grain seed. No. 156,061; June 13.
- Starkel Candy Company, Stillwater, Minn. Candies. No. 156,577; June 27.
- Starkloff, William B., Baltimore, Md. Awnings, tents, flags, tarpaulins. No. 151,963; Feb. 14.
- Starkweather, Amy R., Amsterdam, N. Y. Underskirts. No. 156,146; June 13.
- Starkweather-Snook Corporation, Moline, Ill. Shock absorbers. No. 154,164; Apr. 4.
- Starr, Raynor F., Chicago, Ill. Washboards. No. 158,823; Sept. 12.
- Staso Laminated Slate Company, Chicago, Ill. Crushed slate for use as a surfacing grit for prepared roofings. No. 160,299; Oct. 17.
- Statesman Printing Company, The, Boise, Idaho. Newspapers. No. 162,600; Dec. 19.
- Stavelerg Coal & Iron Co. Limited, The, Barrow Hill, near Chesterfield, England. Waterproof cement for building. No. 152,514; Feb. 28.
- Stays Neat Mattress Company. (See Cohen, Louis I.)
- Ste. Ame. des Industries Chimiques Wilsele, Wilsele-lez-Louvain, Belgium. Chemicals and paints, more particularly lithopone, permanent zinc paint. No. 158,546; Sept. 5.
- Sté An de Couleurs d'Aniline et Products Chimeques S. A. C. A., Brussels, Belgium. Chemicals and dyestuffs. No. 161,840; Nov. 21.
- Stearn Company, The, New York, N. Y. Polishing cream for pipes used in smoking tobacco. No. 161,639; Nov. 14.
- Stearns & Foster Company, The, Lockland, Ohio. Cotton batting. Nos. 150,590-3; Jan. 3.
- Stearns & Foster Company, The, Lockland, Ohio. Cotton batting, particularly glazed cotton wadding. No. 150,594; Jan. 3.
- Stearns & Foster Company, The, Lockland, Ohio. Cotton batting. No. 150,595; Jan. 3.
- Stearns & Foster Company, The, Lockland, Ohio. Cotton batting, particularly glazed cotton wadding. No. 150,596; Jan. 3.
- Stearns & Foster Company, The, Lockland, Ohio. Cotton batting. Nos. 150,597-612; Jan. 3.
- Stearns & Foster Company, The, Lockland, Ohio. Cotton batting, particularly glazed cotton wadding. Nos. 150,613-14; Jan. 3.
- Stearns & Foster Company, The, Lockland, Ohio. Cotton-batting. Nos. 153,314-21; Mar. 14.
- Stearns & Foster Company, The, Lockland, Ohio. Mattresses. Nos. 155,584-8; May 30.
- Stearns & Foster Company, The, Lockland, Ohio. Cotton batting. No. 156,432; June 20.
- Stearns & Foster Company, The, Lockland, Ohio. Mattresses. Nos. 159,115-19; Sept. 19.
- Stearns, Frederick, & Company, Detroit, Mich. Medicine. No. 152,182; Feb. 21.
- Stearns, Frederick, & Company, Detroit, Mich. Certain medicinal and pharmaceutical preparations. No. 161,640; Nov. 14.
- Stearns, Frederick J., Manchester, N. H. Oil preparation for cleansing and polishing metal. No. 162,383; Dec. 12.
- Stebbins, E., Manufacturing Company, Springfield, Mass. Faucets, cocks and bibs. No. 157,586; Aug. 8.
- Stedman, Arthur W., Inc., New York, N. Y. Post card bearing printed matter and a message. No. 153,539; Mar. 21.
- Steg, Elberta R., Kansas City, Mo. Candy. No. 158,824; Sept. 12.
- Steel Can't Steal Box Corporation, New York, N. Y. Safety boxes for valuables. No. 161,841; Nov. 21.
- Steel Equipment Corporation. (See Fire-Proof Furniture and Construction Company, assignor.)
- Steel Products Engineering Company, The, Springfield, Ohio. Machine tools, etc. No. 157,209; July 25.
- Steel Products Manufacturing Company, Racine, Wis. Valves for gas engines and parts thereof. No. 161,842; Nov. 21.
- Steel Wings Company, Chicago, Ill. Vehicle springs, shock absorbers, and recoil checks. No. 153,010; Mar. 7.
- Steele Packing Company, San Diego, Calif. Canned fish, fruits, and vegetables. No. 156,930; July 18.
- Stegall, R. M., Chattanooga, Tenn. Dairy feed. No. 153,011; Mar. 7.
- Stegall, R. M., Chattanooga, Tenn. Dairy feed. No. 153,540; Mar. 21.
- Steigler & Herman, New York, N. Y. Trunks, valises, suitcases, and traveling bags. No. 159,646; Sept. 26.
- Stein, A., and Company, Chicago, Ill. Rubber sheeting. No. 153,012; Mar. 7.
- Stein, A., & Company, Chicago, Ill. Baby pants. No. 157,587; Aug. 8.
- Stein, A., & Company, Chicago, Ill. Elastic webbing and shirred elastic ribbon. No. 159,120; Sept. 19.
- Stein, A., & Company, Chicago, Ill. Sanitary aprons and belts. No. 159,121; Sept. 19.
- Stein, A., & Company, Chicago, Ill. Household aprons, girdle supporters, and baby pants. No. 161,308; Nov. 7.
- Stein, Abraham M., Los Angeles, Calif. Ointment for catarrh, hay fever, sprains, etc. No. 158,105; Aug. 22.
- Stein Bros. Mfg. Co., Williamsport, Pa. Clothing. No. 155,091; May 16.
- Stein, Charles, New York, N. Y. Umbrellas and parasols. No. 161,309; Nov. 7.
- Stein & Ellbogen Company, Chicago, Ill. Watches. No. 157,588; Aug. 8.
- Stein & Ellbogen Company, Chicago, Ill. Watches. No. 158,547; Sept. 5.
- Stein, Jacob, New York, N. Y. Sanitary aprons and belts. No. 161,381; Nov. 7.
- Stein, S., & Co., New York, N. Y. Woolen piece goods. No. 152,515; Feb. 28.
- Steinacker, Frank W., Cleveland, Ohio. Nonferrous and ferrous alloys. No. 151,602; Feb. 7.
- Steinberger Bros. Inc., New York, N. Y. Silk, wool, cotton, and linen yarns and mixtures thereof. No. 153,322; Mar. 14.
- Steinberger Bros. Lobl Co., New York, N. Y. Leather and fabric gloves. No. 158,107; Aug. 22.
- Steinberger Bros. Lobl Co., New York, N. Y. Leather and fabric gloves. Nos. 159,122-3; Sept. 19.
- Steinberger, Louis, Jersey City, N. J. Nonalcoholic, non-cereal, maltless beverages and sirups for making same. No. 156,553; June 27.
- Steiner, Clarence S., Asbury Park, N. J. Mattresses, pillows, bedsteads, sleeping couches, and day beds. No. 162,601; Dec. 19.
- Steiner & Son, Inc., Asbury Park, N. J. Sleeping garments. No. 159,227; Sept. 19.
- Steinert, M., & Sons Co., Boston, Mass. Player pianos, piano players, pianos, and organs. No. 155,288; May 23.
- Steinfeld Bros., New York, N. Y. Velocipedes, tricycles, bicycles, and other toy vehicles. No. 150,693; Jan. 3.
- Steinfeld Bros., New York, N. Y. Ice-cream freezers. No. 153,873; Mar. 28.
- Steinfels, Frères, Vincennes, France. Certain toilet preparations. Nos. 153,721-4; Mar. 28.
- Steinfels Frères, Vincennes, France. Soaps. Nos. 160,300-3; Oct. 17.
- Steinhardt, A., & Bro. Inc., New York, N. Y. Shirt bands. No. 161,641; Nov. 14.
- Steinke, Lawrence L., Peoria, Ill. Trailers. No. 151,052; Jan. 10.
- Steinmetz, Louis A., Brooklyn, N. Y. Hair tonic. No. 152,278; Feb. 21.
- Stelwagon Manufacturing Co., Philadelphia, Pa. Felt roofing. Nos. 156,962-3; July 18.
- Stelwagon Manufacturing Co., Philadelphia, Pa. Felt roofing. No. 160,682; Oct. 24.
- Stem, John D., Asbury Park, N. J. Candies and confections. No. 156,760; July 11.
- Stember, Bernard, New York, N. Y. Pocketbooks. No. 151,363; Jan. 31.
- Stephens, Hugh, Printing & Stationery Company, Jefferson City, Mo. Covers for embossed and illuminated dance programs, invitations, calendars, announcements, etc. No. 156,530; June 27.
- Stephens Safety Auto Light Co., San Francisco, Calif. Headlight control. No. 160,978; Oct. 31.
- Stephens, Spense M., Lakeland, Fla. Fresh citrus fruits. No. 151,964; Feb. 14.
- Step-On-It Manufacturing Company, Leicester, Mass. Composition used to remove carbon from cylinders and gas passages of internal-combustion engines. No. 153,874; Mar. 28.

Alphabetical list of registrants of trade-marks—Continued.

- Sterling, G. W., and Co., Inc., New York, N. Y. Handkerchiefs. No. 162,902; Dec. 26.
- Sterling Hosiery Co., Chicago, Ill. Men's, women's, and children's hosiery. No. 157,210; July 25.
- Sterling Magnesia Co. Inc., The, New York, N. Y. Citrate of magnesia. No. 161,310; Nov. 7.
- Sterling Parts Mfg. Co., Providence, R. I. Oil gauges. No. 157,289; July 25.
- Sterling Products, Incorporated. (See James, J. W., & Co.)
- Sterling Sales Company, Milwaukee, Wis. Certain aluminum wares. No. 155,537; May 30.
- Sterling Toy Works, Sterling, Ill. Stilts. No. 157,290; July 25.
- Stern, Joseph B., Montgomery, Ala. Farm journal published monthly. No. 153,541; Mar. 21.
- Stern, Joseph, & Sons, Inc., New York, N. Y. Pork sausage. No. 159,542; Sept. 26.
- Stern, Joseph, & Sons, New York, N. Y. Packaged bacon. No. 162,903; Dec. 26.
- Stern, Leona L., New York, N. Y. Face creams. No. 155,843; June 6.
- Stereolectric Company, The, Muncie, Ind. Electric stoves. No. 156,763; July 11.
- Stereolectric Company, The, Muncie, Ind. Time controller for electric appliances. No. 159,543; Sept. 26.
- Sterrick, Harrison D., Pittsburgh, Pa. Malt sirup for beverages. No. 155,092; May 16.
- Sterzelbach, A., & Sons Co., New York, N. Y. Woven, knitted, netted, and textile fabrics in the piece. No. 158,825; Sept. 12.
- Stetson, George A., Boston, Mass. Bunion protectors. No. 153,323; Mar. 14.
- Stetson, Walter E., Somerville, Mass. Cotton duck in the piece. No. 150,979; Jan. 10.
- Stettauer, Harris & Raphael, New York, N. Y. Cotton fabrics in the piece. No. 157,628; Aug. 8.
- Stevens, Annie, Gorham, Me. Medicinal preparation for epilepsy. No. 155,589; Mar. 30.
- Stevens, Ernest, Limited, Cradley Heath, England. Culinary and kitchen utensils made of metal. No. 157,211; July 25.
- Stevens, Isaac F., Nashua, N. H. Refrigerators. Nos. 155,289-90; May 23.
- Stevens, J. P., & Co., New York, N. Y. Woolen piece goods. No. 159,768; Oct. 3.
- Stevens Remedy Company Inc., Morehead, Ky. Preparation for treatment of gall stones and stomach trouble. No. 151,053; Jan. 10.
- Stevens Soft Sole Shoe Co., Salem, Mass. Infants' soft sole shoes. No. 156,433; June 20.
- Stevens & Thompson Paper Company, Greenwich, N. Y. Paper towels. No. 154,157; Apr. 4.
- Stevens & Wallis, (Incorporated,) Salt Lake City, Utah. House organs. No. 162,184; Dec. 12.
- Stevenson, Robert T., doing business as The Stevenson Sales Company, Chicago, Ill. Can opener. No. 159,544; Sept. 26.
- Stevenson Sales Company, The. (See Stevenson, Robert T.)
- Stevenson, W. N., & Co., Inc., New York, N. Y. Umbrellas and parasols. No. 157,773; Aug. 15.
- Steward, Charles J., Augusta, Ga. Artificial vanilla. No. 154,709; Apr. 18.
- Stewart-Bartlett Candy Co., Grinnell, Iowa. Candy. Nos. 156,062-3; June 13.
- Stewart, Clarence R., Spokane, Wash. Toy catapults and targets. No. 160,683; Oct. 24.
- Stewart & Holmes Drug Co., Seattle, Wash. Combs. No. 159,124; Sept. 19.
- Stewart & Holmes Drug Co., Seattle, Wash. Tooth hair, lather or shaving, and bath brushes. No. 160,684; Oct. 24.
- Stewart & Holmes Drug Co., Seattle, Wash. Toilet, laundry, and dry-cleaning soap, razor strops, liquid preparations for cleaning cloth, and metal polish. No. 162,602; Dec. 19.
- Stewart, J. Marcus, Charlotte, N. C. Certain medicinal preparation. No. 152,279; Feb. 21.
- Stewart Manufacturing Corporation, Chicago, Ill. Vehicle-window frames. No. 151,957; Feb. 14.
- Stewart Storage Battery Company, Marshfield, Wis. Storage batteries and storage-battery boxes and containers. No. 160,979; Oct. 31.
- Stewart, William J. B., Los Angeles, Calif. Indoor baseball games. No. 162,174; Dec. 5.
- Stich & Adams, Inc., New York, N. Y. Shoes, slippers, and pumps. No. 154,710; Apr. 18.
- Stickel, Edwin S., Bloomington, Ill. Poultry remedy for roup, etc. No. 155,538; May 30.
- Stickless Fan Co., New York, N. Y. Hand fans. No. 161,908; Nov. 21.
- Ster, George F., Cincinnati, Ohio. Laxative. No. 155,539; May 30.
- Stifel, J. L., & Sons, Wheeling, W. Va. Prints, drills, and denims in the piece. No. 154,395; Apr. 11.
- Stiles, William W., Gretna, La. Sheet-rubber patches. No. 160,023; Oct. 10.
- Stimpson, Edwin B., Company, Brooklyn, N. Y. Rivets. No. 157,291; July 25.
- Stimpson, Edwin B., Company, Brooklyn, N. Y. Rivets. Nos. 161,724-5; Nov. 14.
- Stimpson, Edwin B., Company, Brooklyn, N. Y. Rivets. No. 162,124; Dec. 5.
- Stimule Company Inc., The, New York, N. Y. Toilet powder. No. 159,769; Oct. 3.
- Stimule Company, Inc., The, New York, N. Y. General tonic in tablet form. No. 160,024; Oct. 10.
- Stimule Company, Inc., The, New York, N. Y. Toilet cream. No. 160,025; Oct. 10.
- Stimule Company, Inc., The, New York, N. Y. Headache medicine. No. 160,026; Oct. 10.
- Stimule Company, Inc., The, New York, N. Y. Laxative medicine. No. 160,027; Oct. 10.
- Stix, Baer & Fuller Dry Goods Co., St. Louis, Mo. Necklaces. No. 161,642; Nov. 14.
- Stix, Louis, Co., The, Cincinnati, Ohio. Hosiery. No. 156,330; June 20.
- Stock, Bane, New Haven, Conn. Wash trays. No. 158,331; Aug. 29.
- Stockman, Geo. H., Jr., Philadelphia, Pa. Urn bags or woven tea containers and connected spout hoods. No. 151,965; Feb. 14.
- Stoddard, G. S., & Co., Inc., New York, N. Y. Certain medicinal preparations. Nos. 157,836-8; Aug. 15.
- Stoddard Bros., Inc., Buffalo, N. Y. Medical preparation for reducing blood pressure. No. 160,305; Oct. 17.
- Stoecker, Adolph, & Son, Brooklyn, N. Y. Coffee. No. 156,554; June 27.
- Stokes & Wells, St. Louis, Mo. Pastry ice-cream cones. No. 162,603; Dec. 19.
- Stoll, Horatio F., San Francisco, Calif. Monthly viticultural publication. No. 157,774; Aug. 15.
- Stoll Manufacturing Co., Denver, Colo. Tents and awnings. No. 152,633; Feb. 28.
- Stoll Mfg. Co., The, Denver, Colo. Beds, tables, and chairs. No. 156,555; June 27.
- Stollwerck Brothers, Inc., Stamford, Conn., assignor to The Stollwerck Chocolate Company, Boston, Mass. Milk cocoa, cocoa, milk chocolate, chocolate, and unsweetened chocolate. No. 153,325; Mar. 14.
- Stollwerck Chocolate Company. (See Stollwerck Brothers, Inc., assignors.)
- Stolzer, Harry, New York, N. Y. Writing inks. No. 156,761; July 11.
- Stone & Andrew Inc., Boston, Mass. Ledger, bond, and book papers. No. 153,542; Mar. 21.
- Stone & Andrew Inc., Boston, Mass. Book papers. No. 153,543; Mar. 21.
- Stone, Andrew J., Greybull, Wyo. Washing compound. No. 162,385; Dec. 12.
- Stone, Junius H., Corporation, New York, N. Y. Composition flooring in blocks and sheets. No. 152,516; Feb. 28.
- Stone, Nannie P., Nashville, Tenn. Certain toilet preparation. No. 150,615; Jan. 3.
- Stone, Otho L., doing business as The Dental White Co., Evanston, Wyo. Dentifrice. No. 161,726; Nov. 14.
- Stone-Stearns Co., Chicago, Ill. Dress snap fasteners and press buttons. No. 153,544; Mar. 21.
- Stone, William O., Haverhill, Mass. Monthly publication. No. 157,776; Aug. 15.
- Stoner, Fannie B., Providence, Ky. Hair grower. No. 151,603; Feb. 7.
- Storick, Harold C., Berrien Springs, Mich. Certain medicinal preparations. No. 157,391; Aug. 1.
- Storm, Katherine L., Philadelphia, Pa. Abdominal binders and supporters. No. 160,352; Oct. 17.
- Storm, Katherine L., Philadelphia, Pa. Binders and abdominal supporters. No. 161,382; Nov. 7.
- Storm Manufacturing Company, Minneapolis, Minn. Boring tools and machines, reamers, milling machines, etc. No. 160,306; Oct. 17.
- Story, O. K., & Company, Washburn, Me. Potatoes in their natural state. No. 158,762; Sept. 12.
- Stoughton, Minnie L., Camden, N. J. Book covers. No. 160,980; Oct. 31.
- Stout Medicine Company, The, Baltimore, Md. Remedy for weakness, anemia, impaired nutrition, and mal-assimilation. No. 156,435; June 20.
- Stover, Faune, Whiting, Ind. Furniture and metal cleaning preparation. No. 151,958; Feb. 14.
- Stover, Russell, Company, Des Moines, Iowa. Confection consisting of ice cream or ices covered by a coating of chocolate or other hardened edible material. No. 155,844; June 6.
- Strack, Henry C., deceased, Owego, N. Y. R. A. Strack, executrix. Cultivators. No. 153,946; Mar. 28.
- Strack, Rachel A., executrix (See Strack, Henry C.)
- Strange, Risdon B., trading as French Distributing Company, Atlanta, Ga. Hair grower and a preparation for the skin. No. 159,770; Oct. 3.
- Strasensburgh, R. J., Company, Rochester, N. Y. Preparation for the treatment of coughs and bronchial disorders. No. 155,357; May 23.
- Strathmore Co-Operative Association, Strathmore, Calif. Fresh oranges. No. 160,687; Oct. 24.
- Strathmore Paper Company, West Springfield, Mass. Wedding, ledger, photo-mount, book, cover, correspondence, and printing paper, cardboard, etc. No. 156,493; June 20.
- Strathmore Paper Company, West Springfield, Mass. Writing, typewriting, and other paper, cardboard, Bristol board, etc. No. 157,589; Aug. 8.
- Straus Mfg. Co., Erie, Pa. Overalls. No. 159,228; Sept. 19.
- Straus Mfg. Co., Erie, Pa. Knee pants. No. 159,229; Sept. 19.

- Straus Mfg. Co., Erie, Pa. Pants. No. 161,643; Nov. 14.
 Strause Gas Iron Co., Philadelphia, Pa. Electric irons. No. 160,028; Oct. 10.
 Strauss & Co. (See Strauss, Max.)
 Strauss, A., & Co., New York, N. Y. Dolls. No. 152,517; Feb. 28.
 Strauss, Howard G., New York, N. Y. Razor blades. No. 162,904; Dec. 26.
 Strauss Leather Company, Pittsburgh, Pa. Sole and side leather. Nos. 156,436-7; June 20.
 Strauss, Max, New York, N. Y. Piece goods—namely, silk, woolen, cotton, etc. No. 150,980; Jan. 10.
 Strauss, Max, New York, N. Y. Woven and knitted silk piece goods. No. 156,438; June 20.
 Strauss, Max, doing business as Strauss & Co., New York, N. Y. Piece goods. No. 158,826; Sept. 12.
 Strauss, Royer & Strass, Inc., Baltimore, Md. Ladies' and children's blouses, dresses, etc. No. 154,711; Apr. 18.
 Strauss, Samuel, New York, N. Y. Laxative. No. 153,875; Mar. 28.
 Strawbridge & Clothier, Philadelphia, Pa. Men's and boys' outer clothing. No. 154,712; Apr. 18.
 Strawbridge & Clothier, Philadelphia, Pa. Men's, young men's, and boys' hats and caps. No. 161,311; Nov. 7.
 Strecker, Dr. J. E., Chattanooga, Tenn. Preparations for certain purposes. No. 155,845; June 6.
 Street & Smith Corporation, New York, N. Y. Magazine issued twice monthly. No. 155,093; May 16.
 Street & Smith Corporation, New York, N. Y. Magazines issued monthly. No. 159,125; Sept. 19.
 Street & Smith Corporation, New York, N. Y. Magazines issued weekly. No. 159,126; Sept. 19.
 Street & Smith Corporation, New York, N. Y. Fiction magazines issued weekly. No. 162,386; Dec. 12.
 Strehl, Alice D., Chicago, Ill. Hair nets. No. 154,396; Apr. 11.
 Strehl, Alice D., Chicago, Ill. Human-hair goods. No. 157,775; Aug. 15.
 Strevel-Paterson Hardware Co., Salt Lake City, Utah. Carpet sweepers, table forks, tool handles, etc. No. 155,094; May 16.
 Strimple, John A., Janesville, Wis. Tire pumps. No. 156,064; June 13.
 Stringer Bros. Co., Chicago, Ill. Oil-regulated flush valves, cast-iron bends, drum caps, and soil and drainage fittings. No. 162,125; Dec. 5.
 Stroberger, Otto, Creighton, Nebr. Air-hose reel. No. 151,364; Jan. 31.
 Strohmeier & Arpe Company, New York, N. Y. Vegetable oil and mayonnaise and salad oil. No. 151,959; Feb. 14.
 Strong, Carlisle & Hammond Company, Cleveland, Ohio. Certain steam specialties. No. 161,644; Nov. 14.
 Strong, Hewat & Co. Inc., North Adams, Mass., and New York, N. Y. Woolen piece goods. No. 156,818; July 11.
 Strong-Kennard & Nutt Company, The, Cleveland, Ohio. Spectacles. No. 162,126; Dec. 5.
 Stronge and Warner Company, St. Paul, Minn. Ladies' hats. No. 158,827; Sept. 12.
 Stronghart Company, Chicago, Ill. Small portable savings banks and safes. No. 160,307; Oct. 17.
 Stronghart Company, Chicago, Ill. Small portable savings banks and safes. No. 162,127; Dec. 5.
 Strock, S., & Co., New York, N. Y. Cloth made of camel's hair. Nos. 162,992-3; Dec. 26.
 Stroud & Co., Omaha, Nebr. Dump wagons. Nos. 156,494-5; June 20.
 Strouse, Adler & Co., New Haven, Conn. Corsets. No. 161,645; Nov. 14.
 Strouse, Adler & Co., New Haven, Conn. Corsets. No. 162,994; Dec. 26.
 Strouse-Baer Co., The, Baltimore, Md. Women's, misses', and children's suits, dresses, coats, shirts, etc., and boys' suits. No. 157,212; July 25.
 Strutz & Clottu Co., Chicago, Ill. Razors. No. 162,128; Dec. 5.
 Stryker, William H., doing business as A. A. A. Coal & Supply Co., Washington, D. C. Coal and firewood. No. 160,688; Oct. 24.
 Strype, Fred C., New York, N. Y. Wrapping paper. No. 155,095; May 16.
 Stuart, C. A., Kansas City, Mo. Liquid massage preparation for certain named purposes. No. 158,108; Aug. 22.
 Stuart Confections Co., Chicago, Ill. Candy. No. 152,079; Feb. 14.
 Stuart, Orville D., Chicago, Ill. Medical healing ointment and deodorizer. No. 153,876; Mar. 28.
 Sturdy's, J. F., Sons Co., Attleboro Falls, Mass. Certain jewelry. No. 151,409; Jan. 31.
 Sturgis, Richard C., Boston, Mass. Hand fire fans for fanning open fires. No. 162,905; Dec. 26.
 Sturtevant, B. F., Company, Boston, Mass. Centrifugal fans. No. 155,096; May 16.
 Sturtevant, B. F., Company, Boston, Mass. Centrifugal fans. No. 156,762; July 11.
 Style Center Tailoring Company, The, Cincinnati, Ohio. Men's and young men's clothing consisting of overcoats, raincoats, coats, vests, and trousers. No. 161,312; Nov. 7.
 Suavelline Mfg. Co. (See Root, Charles F.)
 Suburban Manufacturing Company, Atco, N. J. Spark plugs. No. 161,029; Oct. 31.
 Suchywerke A. G., Vienna, Austria. Pharmaceutical preparations for skin diseases and sexual diseases. No. 154,397; Apr. 11.
 Suchywerke A. G., Vienna, Austria. Pharmaceutical preparation for rheumatism and fever. No. 157,437; Aug. 1.
 Success Heater and Manufacturing Company, Des Moines, Iowa. Warm-air heaters and furnaces. No. 159,230-1; Sept. 19.
 Success Heater and Manufacturing Company, Des Moines, Iowa. Warm-air heaters and furnaces. No. 162,906; Dec. 26.
 Suckling Limited, Birmingham, England. Certain precious-metal ware. No. 151,604; Feb. 7.
 Suess, J. Paul, Williamsport, Pa. Remedy for chapped hands, salt rheum, chafing, and sunburn. No. 161,313; Nov. 7.
 Suffern, Robert A., New York, N. Y. Cotton piece goods. No. 153,545; Mar. 21.
 Suffern, Robert A., New York, N. Y. Cotton piece goods. No. 159,127; Sept. 19.
 Sugarland Industries, The, Sugar Land, Tex. Mattresses. No. 151,054; Jan. 10.
 Sugarland Industries, The, Sugar Land, Tex. Mattresses. No. 151,966; Feb. 14.
 Sughrua, Thomas J., Chicago, Ill. Coin holders. No. 162,604; Dec. 19.
 Sugola Company of New Jersey. (See Rupp, William, assignor.)
 Sullivan Machinery Company, Boston, Mass., and Chicago, Ill. Air lifts and liquid separators. No. 159,548; Sept. 26.
 Sullivan, Marguerite, doing business as Domino House, Philadelphia, Pa. Soaps. Nos. 162,907-9; Dec. 26.
 Sullivan, R. G., Estate, Manchester, N. H. Cigars. No. 153,326; Mar. 14.
 Sulprême Chemical Co., The, Northcarrollton, Miss. Certain medicinal preparations. No. 157,392; Aug. 1.
 Sun Chemical & Color Company, Wilmington, Del., and Harrison, N. J. Dry paints. No. 158,828; Sept. 12.
 Sun Company, Philadelphia, Pa. Certain named oils and waxes. No. 153,013; Mar. 7.
 Sun Company, San Antonio, Tex. Photographic prints. No. 162,995; Dec. 26.
 Sun Manufacturing Company, Council Bluffs, Iowa. Macaroni and spaghetti. No. 153,877; Mar. 25.
 Sunbeam Electric Manufacturing Co., Evansville, Ind. Electric batteries. No. 153,014; Mar. 7.
 Sunbeam Knitting Mills, Inc., New York, N. Y. Sweaters. No. 157,213; July 25.
 Sundmacher, Charles T., Brooklyn, N. Y. Finger-nail buffers. No. 158,829; Sept. 12.
 Sun-Herald Corporation, The, New York, N. Y. Cartoon serials. No. 159,546; Sept. 26.
 Sun Lite Bakeries System, Inc., Pittsburgh, Pa. Bakery products. No. 159,547; Sept. 26.
 Sunny Line Appliances, Inc., Detroit, Mich. Laundry washing machines. No. 156,765; July 11.
 Sunny Maid Dress Company, New York, N. Y. Dresses for girls, dappers, juniors, and misses. No. 162,129; Dec. 5.
 Sunshine-Jasper Company, Inc., New York, N. Y. Garment-pressing machine. No. 151,055; Jan. 10.
 Super Art Productions, Los Angeles, Calif. Motion pictures. No. 151,605; Feb. 7.
 Super-Glos Mfg. Co. (See Alzamora, Julius C.)
 Super Polish Co., Detroit, Mich. Polish for furniture, automobiles, and pianos. No. 158,831; Sept. 12.
 Super Saffee Ink Corporation, New York, N. Y. Writing ink. No. 161,314; Nov. 7.
 Superior Brass N. C., New York, N. Y. Bathroom shelving, cup, soap, towel, and toilet-paper racks, garment hooks. No. 158,305; Aug. 29.
 Superior Hat Company, St. Louis, Mo. Harvest hats. No. 155,181; May 16.
 Superior Honey Company, Ogden, Utah. Honey and bee comb foundation. No. 162,456; Dec. 12.
 Superior Knitting Company Inc., Port Carbon, Pa. Men's, boys', women's, misses', and children's knit underwear. No. 157,214; July 25.
 Superior Lamp Mfg. Co., New York, N. Y. Electric lamps, battery boxes, etc. No. 150,981; Jan. 10.
 Superior Manufacturing Company, Lodi, Calif. Pumps and pumping plants. No. 152,518; Feb. 28.
 Superior Manufacturing Co., Massillon, Ohio. Certain cooking and household utensils of aluminum. No. 159,548; Sept. 26.
 Superior Sheet Steel Company, The, Louisville, Ohio. Rolled steel sheets having a copper content. No. 150,982; Jan. 10.
 Superior Underwear Company, The, Piqua, Ohio. Men's, women's, and children's union suits, combination suits, undershirts, and underdrawers. No. 158,830; Sept. 12.
 Supreme Orient O. H. & P., Schenectady, N. Y. Fezes. No. 156,065; June 13.
 Supreme Pyramid Ancient Egyptian Order of Sciots, San Francisco, Calif. Fezes. No. 158,109; Aug. 22.
 Sup-R-Lin Products Co., Independence, Mo. Certain paint, oils, varnishes, etc. No. 151,250; Jan. 24.
 Surbrug, John W., Inc., New York, N. Y. Cigars. No. 153,015; Mar. 7.
 Sure Seal Bottle Capper Co., Chicago, Ill. Bottle-capping machines. No. 156,066; June 13.

Alphabetical list of registrants of trade-marks—Continued.

- Suregrow Hair Tonic Company, New York, N. Y. Hair tonic. No. 150,616; Jan. 3.
- Sure-Step Auto Mat Co., Boston, Mass. Rubber mats for automobiles. No. 151,307; Jan. 24.
- Surgeons Specialty Company, The, Cincinnati, Ohio. Certain hospital supplies. No. 154,398; Apr. 11.
- Surut, Elias, & Son. (See Surut, Louis.)
- Surut, Louis, doing business as Elias Surut & Son; also known as The Woolen Clearing House, New York, N. Y. Woolen and wool-mixture fabrics. No. 162,912; Dec. 26.
- Sussfeld, Lorsch & Schimmel, New York, N. Y. Condensing lenses used in motion-picture, spotlight, stereopticon, and photographic apparatus. No. 158,110; Aug. 22.
- Sussfeld, Lorsch & Schimmel, New York, N. Y. Watch parts. No. 161,315; Nov. 7.
- Sussman Wormser & Co., San Francisco, Calif. Canned fruits, vegetables, and oysters, vinegar, coffee, etc. No. 151,967; Feb. 14.
- Sutton's Mills, North Andover, Mass. Woven woolen fabrics. Nos. 162,910-11; Dec. 26.
- Sutwa Manufacturing Co., New York, N. Y. Garment hangers. Nos. 154,158-9; Apr. 4.
- Suzuki & Co., Higashi-Kawasakicho, Hyogo, Kobe, Japan. Matches. No. 153,016; Mar. 7.
- Swan, Darius, Freedom, Ind. Spark plugs. No. 162,387; Dec. 12.
- Swan & Myers Co., Indianapolis, Ind. Medicinal preparations of calcium ortho-benzyl-oxy-benzoate. No. 155,540; May 30.
- Swanberg, Julius, Chicago, Ill. Magazine pencils. No. 155,097; May 16.
- Swanell Brokerage Co., Cedar Rapids, Iowa. Malt sirup for table use as a food. No. 162,606; Dec. 19.
- Swartz, Henry, Philadelphia, Pa. Certain carburetors, and gas water heaters and tank water heaters. No. 154,464; Apr. 11.
- Swartz Manufacturing Company, Philadelphia, Pa. Carburetors. No. 154,160; Apr. 4.
- Swartz, Thomas J. (See Thomas Textile Company, assignor.)
- Swearingen, Carl W., doing business as The Citroline Company, Los Angeles, Calif. Face creams and lotions. No. 158,306; Aug. 29.
- Swearingen, J. C., Ink Co., Pittsburgh, Pa. Writing and printing inks. No. 158,307; Aug. 29.
- Swedish Pan-Cakery. (See Ekbergh, Ida D.)
- Sweeney, William R., Salisbury, Mo. Rat, mouse, mole, and gopher poison. No. 152,280; Feb. 21.
- Sweet Candy Co., Salt Lake City, Utah. Candy. No. 159,549; Sept. 26.
- Sweet-Odor-Home Company, San Francisco, Calif. Deodorants. No. 152,281; Feb. 21.
- Sweetola Company. (See Rimer, Orseamies S.)
- Sweetser, George E., Company, New York, N. Y. Men's dress shirts and underwear. No. 157,590; Aug. 8.
- Sweitzer, Lothar E., Milwaukee, Wis. Germicidal dental medicines and tooth paste. No. 156,439; June 20.
- Swiantax Company, The, Eaton, Ohio. Hog medicines for treatment of certain ailments. No. 150,617; Jan. 3.
- Swift and Company, Chicago, Ill. Sausage. No. 151,968; Feb. 14.
- Swift and Company, Chicago, Ill. Hog meat. No. 154,809; May 9.
- Swinburne, Arthur H., doing business as Mortona Medicine Co., Middletown, N. Y. Medicine for the treatment of the stomach, liver, etc. No. 158,549; Sept. 5.
- Swingrite Co. Inc., The, Providence, R. I. Golf-stroke-guiding device. No. 151,251; Jan. 24.
- Switzer, Leon O., Oak Park, Ill. Canned fruits and vegetables, jams, and jellies. No. 160,810; Oct. 24.
- Switzer, Russell C., Miami, Fla. Storage batteries. No. 150,694; Jan. 3.
- Sykes & Thompson Co., The, Cleveland, Ohio. Confections—namely, candy. No. 159,550; Sept. 26.
- Sylva Knitting Company, Hamburg, Pa. Knitted underwear for women. No. 157,215; July 25.
- Sylvester-Nichols Company, The, Little Falls, Minn. Butter, ice cream, ices, cherry bar, etc. No. 151,969; Feb. 14.
- Symonds, Frank P., Salem, Mass. Insecticides. No. 159,128; Sept. 19.
- System Machine Works, Stockton, Calif. Circulating pumps. No. 160,689; Oct. 24.
- Szabo, Alex, Perth Amboy, N. J. Horseshoeing apparatus. No. 157,591; Aug. 8.
- Szabo & Beer, New York, N. Y. Dental articulators. No. 153,017; Mar. 7.
- T. & T. Dandruff Remedy Company, East St. Louis, Ill. Dandruff remedy. No. 151,458; Feb. 7.
- Tacony File & Hardware Co., Inc., Philadelphia, Pa. Files. No. 157,591; May 23.
- Taggart Baking Company, Indianapolis, Ind. Bread. No. 151,970; Feb. 14.
- Taggart, E. R. H., Liberty, Mo. Animal toys. No. 151,265; Jan. 24.
- Tagit Company, The, Rockford, Ill. Tags. No. 150,618; Jan. 3.
- Takamine Commercial Corporation, New York, N. Y. Certain electrical apparatus. No. 155,846; June 6.
- Take-A-Tik Co., Bridgeton, N. J. Car or other ticket holders. No. 150,619; Jan. 13.
- Takis, Costis, New York, N. Y. Choice chocolates and bonbons packed in boxes and containers. No. 162,913; Dec. 26.
- Talcum Puff Co., Brooklyn, N. Y. Talcum powder. No. 153,018; Mar. 7.
- Tamor Brothers, New York, N. Y. Hosiery. No. 158,111; Aug. 22.
- Tannenbaum, Isidore, New York, N. Y. Ladies' trimmed and untrimmed hats and hat frames. No. 157,592; Aug. 8.
- Tanners Cut Sole Company, Boston, Mass. Leather and leather bends, sides, blocks, and strips. No. 157,393; Aug. 1.
- Tanners Product Company, Chicago, Ill. Hair. No. 161,316; Nov. 7.
- Tannewitz, Carl E., doing business as The Tannewitz Works, Grand Rapids, Mich. Miter bench saws, ripping and band sawing machines, etc. No. 162,924; Nov. 28.
- Tannewitz Works, The. (See Tannewitz, Carl E.)
- Taunton Rubber Company, Taunton, Mass. Rubber heels. No. 162,175; Dec. 5.
- Taunton Rubber Company, Taunton, Mass. Rubber heels. No. 162,996; Dec. 26.
- Tate Manufacturing Company, Boston, Mass. Mops. No. 153,168; Mar. 14.
- Tauber, Lipton & Co., New York, N. Y. Boys' and children's play suits. No. 157,216; July 25.
- Taxin & Shapiro, New York, N. Y. Coffee. No. 154,713; Apr. 18.
- Taylor-Atkins Paper Company, The, Burnside, Conn. Papeteries, tablets, envelopes, and writing paper. No. 162,025; Nov. 28.
- Taylor, Bramley, Company, The, Chicopee, Mass. Infants' and children's clothing. No. 159,232; Sept. 19.
- Taylor Bros. Co. The, Cleveland, Ohio. Stencil and marking ink. No. 155,292; May 23.
- Taylor, Charles G., doing business as The Bok-A-Bel Medicine Co., Peoria, Ill. Compound for treating catarrh, asthma, and colds. No. 159,551; Sept. 26.
- Taylor, Charlotte E., New York, N. Y., Chicago, Ill., Boston, Mass., and Philadelphia, Pa. Hats and bonnets for ladies, misses, and young boys, and trimmings therefor. No. 22,090; renewed Nov. 29, 1922.
- Taylor Instrument Companies, Rochester, N. Y. Compasses. Nos. 162,130-7; Dec. 5.
- Taylor Instrument Companies, Rochester, N. Y. Thermocouple stems. No. 162,138; Dec. 5.
- Taylor Instrument Companies, Rochester, N. Y. Thermometers. No. 162,139; Dec. 5.
- Taylor Instrument Companies, Rochester, N. Y. Hydrometers. Nos. 162,140-1; Dec. 5.
- Taylor, John, Dry Goods Co., Kansas City, Mo. Package outfit containing a ready-cut garment stamped for embroidery and cotton for working the same. No. 162,914; Dec. 26.
- Taylor, Lydia, Boley, Okla. Pomade for the treatment of the scalp. No. 155,847; June 6.
- Taylor, N. & G. Co. Incorporated. (See Taylor, N. & G., Co., assignor.)
- Taylor, N. & G. Co., Philadelphia, Pa., assignor to N. & G. Taylor Co., Incorporated. Roofing tin. No. 20,563; renewed Jan. 5, 1922.
- Taylor-Van Houten Co., Lansing, Mich. Paint and varnish remover. No. 151,253; Jan. 24.
- Taylor and Watson, Inc., Dover, Del., and New York, N. Y. Hosiery. No. 158,832; Sept. 12.
- Taylor-Williams Co., Columbus, Ohio. Repair kits for tubes. No. 159,647; Sept. 26.
- Taylor's, Santa Ana, Calif. Candies and chocolates. No. 153,019; Mar. 7.
- Teague and Filmer, Portland, Oreg. Hair tonics. No. 154,399; Apr. 11.
- Teddy Multiplication Game Company, The, Cleveland, Ohio. Arithmetical card game. No. 157,593; Aug. 8.
- Tehan, Maurice J., Springfield, Ohio. Certain toilet and medicinal preparation. No. 152,282; Feb. 21.
- Tello Tin-Plate Co. Limited, The, Pontardulais, England. Tin plates. Nos. 19,804-6; renewed June 30, 1921.
- Tel-Auto Spark Company. (See Christopher, Arthur B.)
- Telechronometer Company of America, The, Seattle, Wash. Meters for automatically recording the length of telephone conversations in units of time. No. 159,552; Sept. 26.
- Tell-Stop Appliance Company, The, Cleveland, Ohio. Electric stop and direction signal lamp systems for vehicles. No. 161,317; Nov. 7.
- Templeton Coal Company, Sullivan and Glendora Mine, Ind. Coal. No. 151,254; Jan. 24.
- Templeton's Limited, Toronto, Ontario, Canada. Medicine for asthma. No. 156,067; June 13.
- Femtor Corn & Fruit Products Co., St. Louis, Mo. Corn sirup with sorghum. No. 156,068; June 13.
- Tendick Shoe Manufacturing Co., Milwaukee, Wis. Leather slippers. No. 162,142; Dec. 5.
- Tennessee Eastman Corporation, Kingsport, Tenn. Charcoal not specially prepared for decolorizing or deodorizing. No. 160,690; Oct. 24.
- Tennessee Fibre Co., Memphis, Tenn. Blotter blocks or pads. No. 151,844; Nov. 21.
- Teupenny Company, Incorporated, Norfolk, Va. Nonalcoholic, maltless beverages. No. 155,098; May 16.

- Tension Envelope Company, Inc., Brooklyn, N. Y. Envelopes. No. 152,519; Feb. 28.
- Ternstedt Manufacturing Co., Detroit, Mich. Automobile body hardware. No. 160,691; Oct. 24.
- Ternstedt Manufacturing Company, Detroit, Mich. Windshield wipers of the squeegee type. No. 160,692; Oct. 24.
- Terry, George W., Greenfield, Mass. Compound for the treatment of barbers' itch, poison ivy, dogwood poison, and skin disease, etc. No. 158,308; Aug. 29.
- Terry Manufacturing Company Inc., Jersey City and Newark, N. J. Cranes, derricks, derrick irons, and aeronautical apparatus and riveting tools. No. 153,947; Mar. 28.
- Testall Electric Manufacturing Co., San Antonio, Tex. Electrical testing devices. No. 150,983; Jan. 10.
- Testrite Instrument Co., New York, N. Y. Goggles. No. 151,410; Jan. 31.
- Testrite Instrument Co., New York, N. Y. Hydrometers, thermometers, pocket compasses, barometers, etc. No. 154,455; Apr. 11.
- Tetlow, Ida J., Philadelphia, Pa. Powder puffs. Nos. 150,984-5; Jan. 10.
- Tetlow, Ida J., Philadelphia, Pa. Powder puffs. No. 151,255; Jan. 24.
- Tetlow, Ida J., Philadelphia, Pa. Toilet preparations. No. 156,440; June 20.
- Tetlow, Ida J., trading as Henry Tetlow Company. Toilet preparations. No. 158,309; Aug. 29.
- Tetralin Gesellschaft mit beschränkter Haftung, Berlin, Germany. Explosive substances, projectiles, ammunition. No. 152,283; Feb. 21.
- Tetzlaff, Ben. A., Chicago, Ill. Hose clamps. No. 153,878; Mar. 28.
- Teuteberg, Charles L., St. Louis, Mo. Poultry feed. No. 153,020; Mar. 7.
- Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y. Petroleum and certain products thereof. No. 150,620; Jan. 3.
- Texas Company, The, Houston, Tex., and New York, N. Y. Burning oils. No. 150,621; Jan. 3.
- Texas Company, The, Houston, Tex., and New York, N. Y. Gasoline and motor fuel oils. No. 153,021; Mar. 7.
- Texas Company, The, Houston, Tex., and New York, N. Y. Cylinder oils. No. 154,165; Apr. 4.
- Texas Company, The, Houston, Tex., and New York, N. Y. Certain named construction materials. No. 156,556; June 27.
- Texas Cotton Mill Co., McKinney, Tex. Cotton piece goods. No. 153,546; Mar. 21.
- Texas Film Company, Denton, Tex., and Los Angeles, Calif. Motion-picture films. No. 151,606; Feb. 7.
- Texas Gulf Sulphur Company, New York, N. Y. Sulphur inoculated with bacteria. No. 153,112; Aug. 22.
- Texas Gulf Sulphur Company, New York, N. Y. Sulphur and sulphur inoculated with bacteria. No. 158,113; Aug. 22.
- Texas Gulf Sulphur Company, New York, N. Y. Sulphur inoculated with bacteria. Nos. 158,833-4; Sept. 12.
- Texas Star Flour Mills, Galveston, Tex. Wheat flour. No. 153,022; Mar. 7.
- Texas Star Flour Mills, Galveston, Tex. Wheat flour. No. 159,129; Sept. 19.
- Texas Wagon Works, Inc., The, Houston, Tex. Truck bodies. No. 153,327; Mar. 14.
- Texoleum Company of N. Y., Inc., New York, N. Y. Oil-cloth, linoleum, etc. No. 153,328; Mar. 14.
- Textile Manufacturing Co., The, Chester, Pa. Artificial-silk fiber. No. 154,166; Apr. 4.
- Textile Publishing Company, New York, N. Y. Certain advertising matter. No. 151,971; Feb. 14.
- Thanhouser & Weiller, Baltimore, Md. Children's textile-fabric union suits and pyjamas. No. 151,972; Feb. 14.
- Thatcher-Clore Drug Co., Columbus, Ohio. Medicated preparation for dyspepsia, nausea, etc. No. 155,848; June 6.
- Thatcher Manufacturing Co., Elmira, N. Y. Glass milk bottles. No. 161,846; Nov. 21.
- Thau, Charles K., New York, N. Y. Hair nets. Nos. 153,547-8; Mar. 21.
- Thau, Charles K., New York, N. Y. Hair nets. No. 158,835; Sept. 12.
- Thayer, Henry, & Co. Inc., Cambridge, Mass. Soaps. No. 155,541; May 30.
- Theiner, Rudolph, Chicago, Ill. Salve for certain ailments. No. 150,622; Jan. 3.
- Theobald Flour Mills Co., The, Northfield, Minn. Wheat flour. Nos. 162,915-16; Dec. 26.
- Theocaris, Homer, New York, N. Y. Cigarettes. No. 158,114; Aug. 22.
- Theodore Bros. Chocolate Co., St. Louis, Mo. Chocolate candy. No. 156,766; July 11.
- Theonett & Co., Inc., Chicago, Ill. Maltless, nonalcoholic beverage and sirup for making the same. No. 157,217; July 25.
- Therapeutic Foods Company. (See Maurice, R., & Co.)
- Thermal Appliance Company, Inc., Elizabethport, N. J., and New York, N. Y. Water heaters. No. 160,308; Oct. 17.
- Thermatomic Carbon Co., Pittsburgh, Pa. Carbon black having a combination of uses. No. 160,981; Oct. 31.
- Thermoid Rubber Company, Hamilton Township, Mercer County, N. J. Brake linings. No. 157,394; Aug. 1.
- Thermot Coal & Coke Co., Ringhamton, N. Y. Coal and coke. No. 157,218; July 25.
- Thibodeau, A. F., Company, Detroit, Mich. Eggs. No. 159,553; Sept. 26.
- Thode, Alfred, Brooklyn, N. Y. Candy. No. 154,810; May 9.
- Thomas & Betts Co., The, Elizabeth, N. J. Hickeys or bending irons for pipes, electrical conduits, etc. No. 161,909; Nov. 21.
- Thomas-Boyce Direct Feed Company, Attica, N. Y., and Indianapolis, Ind. Calif. dairy, stock, etc., feeds and poultry mash. No. 159,554; Sept. 26.
- Thomas-Boyce Direct Feed Company, Attica, N. Y., and Indianapolis, Ind. Calif. dairy, scratch, chicken, stock, etc., feed. No. 160,029; Oct. 10.
- Thomas & Buswell Inc., New York, N. Y. Hair nets. No. 161,845; Nov. 21.
- Thomas Company, Philadelphia, Pa. Antileak compound. No. 158,310; Aug. 29.
- Thomas, Frank S., Topeka, Kans., and Kansas City, Mo. Water circulators. No. 150,695; Jan. 3.
- Thomas, Lillian S., doing business as Froidevaux Cie., New York, N. Y. Toilet creams and powders. No. 160,982; Oct. 31.
- Thomas, Lydia B., Kennett Square, Pa. Children's suits. No. 160,309; Oct. 17.
- Thomas Moulding Brick Company, Chicago, Ill. Mastic flooring. No. 160,310; Oct. 17.
- Thomas Textile Company, New York, N. Y., assignor to T. J. Swartz. Babies' diapers. Nos. 160,311-12; Oct. 17.
- Thompson, Alice, San Francisco, Calif. Face bleach, building astringent, powder used as a foot ease, etc. No. 157,995; Aug. 1.
- Thompson-Barlow Company, The, New York. Massaging cup for treatment of ailments of the body and weight reduction thereof. No. 153,549; Mar. 21.
- Thompson Bros. Shoe Co., Brockton, Mass. Boots, shoes, and slippers made wholly or in part of leather and cloth. No. 154,714; Apr. 18.
- Thompson & Company, Tampa, Fla. Cigars, smoking tobacco, and cigarettes. No. 156,819; July 11.
- Thompson, Ernest, et al., executors. (See Thompson, Joseph.)
- Thompson, F. A., & Company, Detroit, Mich. Medicine for kidney, liver, bladder, rheumatism, and uric-acid troubles. No. 157,396; Aug. 1.
- Thompson, G. H., Inc., Seattle, Wash. Candies. No. 162,607; Dec. 19.
- Thompson Hardware Company, Minneapolis, Minn. Certain cutlery, machines, and tools. No. 151,411; Jan. 31.
- Thompson, John, & Sons, Ltd., Belfast, Ireland. Oats (for food). No. 152,284; Feb. 21.
- Thompson, Joseph, deceased; T. S. Woodcock, W. Thompson, and E. Thompson, executors, Sheffield, England. Certain cutting tools for working wood and metals. No. 157,219; July 25.
- Thompson-Levering Company, Inc., Philadelphia, Pa. Radio apparatus and parts and test sets for telephone line and cables. No. 161,728; Nov. 14.
- Thompson Milling Co., Lockport, N. Y. Wheat flour. No. 159,771; Oct. 3.
- Thompson, William, et al., executors. (See Thompson, Joseph.)
- Thompson, William B., Los Angeles, Calif. Surgical appliances. No. 153,023; Mar. 7.
- Thompson, William B., Los Angeles, Calif. Semiannual magazine. No. 153,550; Mar. 21.
- Thompson's Spa, Boston, Mass. Cigars, cigarettes, and pipe and chewing tobacco. No. 150,986; Jan. 10.
- Thompson's Spa, Boston, Mass. Candy confections, pastries, rolls, salads, table beverages, and other foods. No. 157,769; Aug. 15.
- Thomson-Diggs Company, The, Sacramento, Calif. Certain stoves, etc. No. 151,256; Jan. 24.
- Thomson-Diggs Company, The, Sacramento, Calif. Certain sporting goods. No. 151,973; Feb. 14.
- Thomson-Diggs Company, The, Sacramento, Calif. Cotton and wool waste. No. 153,024; Mar. 7.
- Thomson-Diggs Company, The, Sacramento, Calif. Certain brooms, brushes, and dusters. No. 153,329; Mar. 14.
- Thomson-Diggs Company, The, Sacramento, Calif. Certain cutlery, machines, and tools. No. 154,400; Apr. 11.
- Thomson-Diggs Company, The, Sacramento, Calif. Certain laundry appliances. No. 155,293; May 23.
- Thomson, S. H., Manufacturing Co., The, Dayton, Ohio. Automobile door handles and latches and hood catches. No. 160,115; Oct. 10.
- Thornhill, Mrs. E. L., Lynchburg, Va. Salted almonds. No. 156,069; June 13.
- Thornton, Lewis, Kansas City, Kans. Medicine for rheumatism. No. 151,607; Feb. 7.
- Thornton & Mawby Limited, Leicester, England. Certain articles of clothing. No. 150,623; Jan. 3.
- Thornycroft, John I., & Co. Limited, Westminster, England. Commercial motor vehicles. No. 157,220; July 25.
- Threapleton, Wm. B. Sons, Philadelphia, Pa. Men's, women's, and children's hosiery. No. 156,070; June 13.
- Three Star Non-Rub Auto Gloss Mfg. Co., The, St. Louis, Mo. Polish for automobiles. No. 153,551; Mar. 21.
- Thresher Varnish Company, The, Dayton, Ohio. Certain varnishes. No. 162,457; Dec. 12.
- Thresher Varnish Company, The, Dayton, Ohio. Varnish. No. 162,458; Dec. 12.
- Thurm, Browne & Cohen, Inc., New York, N. Y. Hair nets. No. 157,221; July 25.

Alphabetical list of registrants of trade-marks—Continued.

- Thurman, Mrs. Francis, Casper, Wyo. Face powder, rouge, toilet waters, etc. No. 151,608; Feb. 7.
- Thwing Instrument Company, Philadelphia, Pa. Pyrometer tubes. Nos. 153,879-80; Mar. 28.
- Tibbitts-Hewitt Gro. Co., St. Louis, Mo. Canned fruits, vegetables, and fish and coffee. No. 153,330; Mar. 14.
- Tichenor, Walter A., Brooklyn, N. Y. Semilaxative tablets or powders. No. 156,442; June 20.
- Tichner Bros. (See Dreifus, Tichner & Eckstein, assignor.)
- Tide Water Oil Company, Bayonne, N. J., and New York, N. Y. Lubricating oils, gasoline, mineral wax, lubricating grease, etc. Nos. 151,257-63; Jan. 24.
- Tide Water Oil Company, Bayonne, N. J., and New York, N. Y. Lubricating oils, gasoline, mineral wax, lubricating grease, burning oils, and kerosene. No. 151,365; Jan. 31.
- Tidewater Paper Mills Company, New York, N. Y. Newsprint paper. No. 161,847; Nov. 21.
- Tidey Heat Specialties Co., New York, N. Y. Clocks for furnace-regulation systems. No. 161,729; Nov. 14.
- Tidvman, M., Racine, Wis. Candv. No. 157,777; Aug. 15.
- Tiedemann, Theo., & Sons, Inc., New York, N. Y. Garments for burial purposes. No. 157,222; July 25.
- Tiedemann, Theo., & Sons, Inc., New York, N. Y. Certain named piece goods. No. 161,848; Nov. 21.
- Tiloleum Lind, London, England. Linoleum in the upper surface of which grooves are formed and filled with cement. No. 152,862; Mar. 7.
- Tilson, Max E., New York, N. Y. Perfumes. No. 156,071; June 13.
- Tilton & Keeler, Inc., New York, N. Y. Cotton suiting in the piece. No. 153,331; Mar. 14.
- Tilton & Keeler, Inc., New York, N. Y. Cotton piece goods. No. 158,115; Aug. 22.
- Times Printing Company of Seattle, Seattle, Wash. Newspaper supplement. No. 162,388; Dec. 12.
- Times Printing Company of Seattle, Seattle, Wash. Column of news in its newspaper, said column appearing from time to time. No. 162,389; Dec. 12.
- Times Square Auto Supply Co. Inc., New York, N. Y. Automobile tires, inner tubes for tires, reliners, and blow-out patches. No. 153,332; Mar. 14.
- Timken-Detroit Axle Company, Detroit, Mich. Worms and gears. No. 150,696; Jan. 3.
- Timson Bros. Inc., Boston, Mass. Shoes. No. 161,318; Nov. 7.
- Tin Decorating Company of Baltimore, The. (See Johnson, William H., assignor.)
- Tingles, Incorporated. (See Hawk, Henry C., assignor.)
- Tioga Mill & Elevator Co., Waverly, N. Y. Poultry feed. No. 161,647; Nov. 14.
- Tire Inflator Co., Philadelphia, Pa. Tire-inflating devices. No. 160,313; Oct. 17.
- Tiros Valve Syndicate, The, London, England. Combined pressure and vacuum valves. No. 150,987; Jan. 10.
- Tisco Company, The, Chicago, Ill. Flavoring extracts for food and essential oil for food purposes. No. 154,401; Apr. 11.
- Tisgood Products, Inc., St. Louis, Mo. Olives, fruit jelly, fruit jam, apple butter, etc. No. 158,936; Sept. 12.
- Tissue Company, The, Saugerties, N. Y. Crepe paper. No. 161,750; Nov. 14.
- Titchener, E. H., & Co., Binghamton, N. Y. Certain wire and steel bathroom fixtures. No. 156,072; June 13.
- Tizzard, Samuel B., doing business as Solacene, Los Angeles, Calif. Liniment. No. 160,983; Oct. 31.
- Tobin, Louise S., Kansas City, Mo. Overalls, jumpers, union underwear, and combination suits. No. 161,648; Nov. 14.
- Toch Brothers, New York, N. Y. Photographic developers. No. 160,984; Oct. 31.
- Toch Brothers, New York, N. Y. Enamel paints. No. 161,985; Nov. 28.
- Toch Brothers, New York, N. Y. Waterproofing compositions for use between decks of ferryboats and in like places. No. 162,917; Dec. 26.
- Toch Brothers, New York, N. Y. Damp-resisting paints. No. 162,918; Dec. 26.
- Todd, T. S., & Co., New York, N. Y. Dyes. No. 153,624; Mar. 21.
- Todd, T. S., & Co., New York, N. Y. Steam-trap air valves. No. 156,931; July 18.
- Tolhurst Machine Works, Troy, N. Y. Centrifugal drying machines, also known as hydroextractors. No. 158,116; Aug. 22.
- Tollemache's Ipswich Brewery Limited, Ipswich, England. Fermented liquors and spirits. No. 151,264; Jan. 24.
- Tomoda Goshi Kaisha, Tokyo, Japan. Preparation for gonorrhea. No. 151,519; Feb. 7.
- Tomson, P. C., & Co., Philadelphia, Pa. Lye. No. 157,594; Aug. 8.
- Tomson, P. C., & Co., Philadelphia, Pa. Chlorinated lime. No. 157,595; Aug. 8.
- Tomson, P. C., & Co., Philadelphia, Pa. Lye. No. 158,550; Sept. 5.
- Tonepen Company, New York, N. Y. Phonograph needles. No. 161,319; Nov. 7.
- Tongue, R. E., & Bros. Company, The, Philadelphia, Pa. Fruit-jar rings. No. 160,640; Oct. 24.
- Tonic for the liver, nerves, and stomach, General. Scranton Drug Manufacturing Co. No. 155,825; June 6.
- Tonk Manufacturing Co., Chicago, Ill. Piano benches. No. 151,974; Feb. 14.
- Toohy, F. M., Drug Co., The, Chillicothe, Ohio. Certain medicinal preparation. No. 160,985; Oct. 31.
- Toombs, F. A., & Co., Brooklyn, N. Y. Embroidery cord and thread. No. 153,025; Mar. 7.
- Toombs, F. A., & Co., Brooklyn, N. Y. Buckles not of metal and rings for fancy goods. No. 153,385; Mar. 14.
- Topeka Packing Co., Topeka, Kans. Dressed poultry. Nos. 153,948-9; Mar. 28.
- Tophams, Washington, D. C. Certain baggage equipment. No. 161,646; Nov. 14.
- Torbensen Axle Company, The, Cleveland, Ohio. Motor-vehicle axles and gear-casing constructions therefor. No. 151,975; Feb. 14.
- Torbensen Axle Company, Cleveland, Ohio. Motor-vehicle front and rear axles and brake carriers. No. 153,625; Mar. 21.
- Tornquist, Ernesto & Co., Limitada, Buenos Aires, Argentina. Extract of wood for tanning purposes. No. 155,542; May 30.
- Tornquist, Ernesto, & Co., Limitada, Buenos Aires, Argentina. Extract of wood, particularly of quebracho wood, for tanning purposes. No. 155,849; June 6.
- Torrance & Kleider, doing business as Nuxtonic Company, Marion, Ind. Certain medicinal preparation. No. 160,116; Oct. 10.
- Torrence, James S., San Francisco, Calif. Shears and scissors. No. 158,364; Aug. 29.
- Torreño, Manuel Z., San Antonio, Tex. Prepared chocolate for table use. No. 154,811; May 9.
- Torrington Company, The, Torrington, Conn. Spokes and nipples for vehicle wheels. No. 160,693; Oct. 24.
- Touraine Company, The, Boston, Mass. Chocolates. No. 154,715; Apr. 18.
- Tower, A. J., Company, Boston, Mass. Waterproof coats. No. 154,716; Apr. 18.
- Tower Fish Company, Boston, Mass. Dried, smoked, and pickled fish. No. 162,390; Dec. 12.
- Tower Manufacturing Co., Inc., New York, N. Y. Dyes. No. 155,358; May 23.
- Town Talk Manufacturing Co., Louisville, Ky. Men's and boys' caps. No. 159,130; Sept. 19.
- Town Topics Publishing Company, The, New York, N. Y. Society journal. No. 21,694; renewed Aug. 30, 1922.
- Townsend, Howard W., Richmond, Ind. Candies. No. 156,557; June 27.
- Townsend, S. P., Company. (See Townsend, Samuel P.)
- Townsend, Samuel P., doing business as S. P. Townsend Company, Bloomfield, N. J. Mowing machines. No. 162,919; Dec. 26.
- Townsend Wholesale Grocery Company, Maryville, Mo. Coffee. No. 153,333; Mar. 14.
- Toycraft Rubber Co., The, Ashland, Ohio. Certain rubber toys. No. 151,981; Feb. 14.
- Tracy-Waldron Fruit Company, Lodi, Calif. Fresh grapes. No. 154,717; Apr. 18.
- Tracy-Waldron Fruit Company, Lodi, Calif. Fresh grapes. No. 158,587; Sept. 5.
- Trager Manufacturing Company, Scranton, Pa. Insecticides. No. 155,543; May 30.
- Trahern Tobacco Co., Inc., Clarksville, Tenn. Tobacco extract used for saucing or flavoring tobacco. No. 155,294; May 23.
- Trahern Tobacco Co., Inc., Clarksville, Tenn. Tobacco extract for saucing or flavoring tobacco. No. 156,443; June 20.
- Tranter Manufacturing Company, Pittsburgh, Pa. Certain pumps, engines, farm implements, wood and metal working machinery, and accessories. No. 157,596; Aug. 8.
- Trappey, B. F., Jeanerette, La. Tobasco sauce, peppers in vinegar, extract of pepper, ground pepper. No. 153,881; Mar. 28.
- Travelight Mfg. Co. (See Loeb, Herman, assignor.)
- Travieso, Emilio F., doing business as Emifertra Manufacturing Co., New York, N. Y. Soap flakes. No. 157,778; Aug. 15.
- Traylor Engineering & Manufacturing Company, Allentown, Pa. Motor trucks and trailers. No. 157,223; July 25.
- Treadwell Engineering Company, Easton, Pa. Certain machinery. No. 157,292; July 25.
- Treadwell Engineering Company, Easton, Pa. Machinery. No. 158,117; Aug. 22.
- Treze Laboratories, Inc., New York, N. Y. Toilet preparation for coloring and treating eyebrows, eyelashes, and hair. No. 155,850; June 6.
- Treeline Suit Company, New York, N. Y. Ladies' and misses' capes. No. 161,649; Nov. 14.
- Tremont Manufacturing Company, Greensburg, Pa. Medicine for diseases of the lungs. No. 155,295; May 23.
- Tremont Products Company. (See Shawmut Machine Works, Inc.)
- Tremont & Suffolk Mills, Lowell, Mass. Gray cotton blankets. No. 158,118; Aug. 22.
- Treo Company, Inc., New York, N. Y. Elastic corsets. Nos. 157,779-82; Aug. 15.
- Trestle Board, San Francisco, Calif. Monthly magazine. No. 162,391; Dec. 12.
- Treuting, Elmer C., San Francisco, Calif. Gland tablets. No. 158,119; Aug. 22.
- Trevarrow, Phillip J., Flint, Mich. Ointment for corns. No. 155,544; May 30.
- Trexler Company, The, Philadelphia, Pa. Tire carriers. No. 157,224; July 25.

- Triangle Manufacturing Co., Cedar Rapids, Iowa. Egg-preserving compounds. No. 161,320; Nov. 7.
- Triangle Motors, Incorporated, Chicago, Ill. Remanufactured automobiles. No. 160,694; Oct. 24.
- Tranon Co., New York, N. Y. Ladies' handbags. No. 153,334; Mar. 14.
- Tribble Cordage Mills Inc., Boston, Mass. Clotheslines. No. 151,366; Jan. 31.
- Tribble Cordage Mills, Inc., Boston, Mass. Mops. No. 161,986; Nov. 28.
- Tribble, Robert A., doing business as The Grocerlane Stores Association, Cedarbluff, Miss. Canned corn and peas, wheat flour, and coffee. No. 162,920; Dec. 26.
- Tribune Company, The, Chicago, Ill. Nom de plume for newspaper articles. Nos. 151,976-7; Feb. 14.
- Tribune Company, The, Chicago, Ill. Series of cartoons. Nos. 151,978-9; Feb. 14.
- Tribune Company, The, Chicago, Ill. Newspaper column. No. 153,026; Mar. 7.
- Tribune Company, The, Chicago, Ill. Series of cartoons. Nos. 153,027-8; Mar. 7.
- Tribune Company, The, Chicago, Ill. Newspaper column. No. 153,029; Mar. 7.
- Tribune Company, The, Chicago, Ill. Newspaper section. No. 160,695; Oct. 24.
- Tribune Company, Chicago, Ill. Series of cartoons. No. 160,696; Oct. 24.
- Trickey, Fred L., Berlin, Wis. Cements. Nos. 161,987-90; Nov. 28.
- Trimble, Edward M., Rochester, N. Y. Folding crib for children. No. 151,980; Feb. 14.
- Trimount Trading Company, Boston, Mass. Hair nets. No. 156,444; June 20.
- Trinidad Bean and Elevator Company, The, Trinidad, Colo. Dried beans of all kinds. No. 150,624; Jan. 3.
- Trinity Bag & Paper Co. Inc., New York, N. Y. Paper for wrapping purposes. No. 153,882; Mar. 28.
- Trinity Chemical Corporation, White Plains, N. Y. Washing compound for general household, kitchen, and laundry purposes. No. 159,131; Sept. 19.
- Trinity Chemical Corporation, White Plains, N. Y. Cleanser for industrial, household, and all general cleaning. No. 159,132; Sept. 19.
- Trinity Chemical Corporation, White Plains, N. Y. Preparation for removing paint, varnish, shellac, etc., from floors, woodwork, etc., and for cleaning brushes and removing wall paper. No. 162,392; Dec. 12.
- Trinity Grocery Co., Dallas, Tex. Vinegars, salad dressing, honey, coffee, etc. No. 156,767; July 11.
- Trion Company, Trion, Ga. Cotton goods in the piece. Nos. 156,445-6; June 20.
- Trion Company, Trion, Ga. Cotton goods in the piece. No. 156,933; July 18.
- Tripi, Andrea H., Buffalo, N. Y. Preparation for the treatment of skin diseases. No. 156,968; July 18.
- Triple, P., Manufacturing Corporation, New York, N. Y. Children's drawers-supporting waists. No. 161,321; Nov. 7.
- Tri-Plex Shoe Company, Philadelphia, Pa. Boots and shoes made of leather and fabric. No. 157,325; July 25.
- Tripod Paint Co., The, Atlanta, Ga. Cold-water white. No. 153,031; Mar. 7.
- Tripod Paint Co., The, Atlanta, Ga. Tinted lead and ready-mixed paints. No. 153,552; Mar. 21.
- Tripp, Samuel G., Berne, Switzerland. Tobacco boxes. No. 153,032; Mar. 7.
- Tripp, Barker & Co., New York, N. Y. Cotton piece goods. No. 156,447; June 20.
- Tri-Star Noodle Factory, Chicago, Ill. Noodles. No. 160,986; Oct. 31.
- Tri-State Milling Co., Belle Fourche, S. D. Wheat flour. No. 153,030; Mar. 7.
- Triumph Mfg. Co., Philadelphia, Pa. Bath tablets. No. 153,383; Mar. 28.
- Trostel, Albert O., Milwaukee, Wis. Wool and hair. No. 151,265; Jan. 24.
- Troy Underwear Co. Inc., Troy, N. Y. Undershirts, drawers, and union suits. No. 161,322; Nov. 7.
- Tru-Blu Biscuit Company, Spokane, Wash. Biscuit and bakery products. No. 150,625; Jan. 3.
- Tru-Blu Biscuit Co., Spokane, Wash. Biscuit, cakes, and bakery products. No. 150,626; Jan. 3.
- Tru-Blu Biscuit Company, Spokane, Wash. Cakes—namely, cookies or English-style biscuit. No. 160,030; Oct. 10.
- True Shape Hosiery Co., Philadelphia, Pa. Hosiery. No. 154,848; May 9.
- Truettner, Walter G., Milwaukee, Wis. Certain dwelling houses. No. 152,634; Feb. 28.
- Trum, E. J., Inc., New York and Brooklyn, N. Y. Boxes and cartons. No. 151,367; Jan. 31.
- Trumbull-Vanderpoel Electric Manufacturing Co., Bantam, Conn. Electric safety switches. No. 156,603; July 4.
- Truscon Steel Company, Detroit, Mich. Paint coating for exterior surfaces. No. 151,266; Jan. 24.
- Trust Estate of Adolph C. Meyer, deceased, trading as A. C. Meyer & Co., Baltimore, Md. Pills having laxative and tonic properties. No. 161,817; Nov. 21.
- Tryon, Edw. K., Company, Philadelphia, Pa. Fishing lines. No. 156,496; June 20.
- Tryon, Edward B., Lowell, Mass. Stockings and socks. No. 161,383; Nov. 7.
- Tsagarakis, George, New York, N. Y. Beverages sold as soft drinks. No. 160,031; Oct. 10.
- Tsutsumi, Seiroku, Tokyo, Japan. Canned crab meat, fish, vegetables, fruits, and pickles. No. 159,555; Sept. 26.
- Tubstuff Company Incorporated, Seattle, Wash. Play-frocks for little girls. No. 157,226; July 25.
- Tubular Woven Fabric Company, Pawtucket, R. I. Electrical box connectors. No. 160,987; Oct. 31.
- Tucker Duck & Rubber Co., Fort Smith, Ark. Folding cots, stools, and chairs. No. 156,147; June 13.
- Tucker Electrical Construction Company, The, New York, N. Y. Certain electrical devices. No. 155,851; June 6.
- Tucker, William R., Brockton, Mass. Waterproofing and preservative compound. No. 154,402; Apr. 11.
- Tuckett Tobacco Company, Limited, The, Hamilton, London, and Montreal, Canada. Smoking tobacco, cigars, and cigarettes. No. 156,602; July 4.
- Tuckett Tobacco Company, The, Hamilton, Canada. Cigars. No. 158,365; Aug. 29.
- Tuckett Tobacco Company, The, Hamilton, Canada. Cigars, cigarettes, smoking and chewing tobacco. No. 158,366; Aug. 29.
- Tuckett Tobacco Company, Limited, The, Hamilton and London, Ontario, and Montreal, Quebec, Canada. Cut and plug tobacco. No. 159,556; Sept. 26.
- Tuckett Tobacco Company, Limited, The, Hamilton, Ontario, Canada. Cigars, smoking tobacco, and cigarettes. No. 161,650; Nov. 14.
- Tuco Products Corporation, New York, N. Y. Construction materials. No. 156,073; June 13.
- Tully, Francis W., Boston, Mass. Raincoats. No. 156,448; June 20.
- Tully, Lawrence M., Oakland, Calif. Candies. No. 151,983; Feb. 14.
- Tulsa Oil Products Co., Tulsa, Okla. Gasoline. No. 155,099; May 16.
- Tulsa Refined Oil Company, Tulsa, Okla. Mineral oils and greases. No. 155,100; May 16.
- Turbine Air Tool Company, The, Cleveland, Ohio. Pneumatic drills, planers, grinders, valve grinders, and sanding machines. No. 150,988; Jan. 10.
- Turbine Air Tool Company, Cleveland, Ohio. Pneumatic machines and tools. No. 161,731; Nov. 14.
- Turbulator Corporation, The, Chicago, Ill. Fuel vaporizers for internal-combustion engines. No. 161,651; Nov. 14.
- Turilli, Mario F., trading as Modern Neckwear Company, Providence, R. I. Neckties. No. 160,314; Oct. 17.
- "Turmac" Turkish-Macedonian Tobacco Company, Arnhem, Netherlands. Tobacco products. No. 150,989; Jan. 10.
- "Turmac" Turkish Macedonian Tobacco Company, Arnhem, Netherlands. Cigarettes, cigars, tobacco. No. 153,335; Mar. 14.
- "Turmac" Turkish-Macedonian Tobacco Company, Arnhem, Netherlands. Smoking and chewing tobacco, cigarettes, cigars, and snuff. No. 155,101; May 16.
- "Turmac" Turkish-Macedonian Tobacco Co., Arnhem, Netherlands. Smoking and chewing tobacco, cigars, cigarettes, and snuff. Nos. 158,121-2; Aug. 22.
- Turner, Halsey Company, New York, N. Y. Certain cotton textiles in the piece. No. 150,627; Jan. 3.
- Turner, Halsey Co., New York, N. Y. Bleached cotton duck. No. 158,166; Aug. 22.
- Turner, Nellie F., New York, N. Y. Cigarettes. No. 158,123; Aug. 22.
- Turner, Robert V., Montgomery, Ala. Salve. No. 153,884; Mar. 28.
- Turner & Stroock, Inc., New York, N. Y. Cloth made of artificial silk. No. 159,772; Oct. 3.
- Turner & Walls, New York, N. Y. Shirtings in the piece. No. 156,449; June 20.
- Turner & Walls, New York, N. Y. Wool and artificial-silk piece goods and combinations of same. No. 158,837; Sept. 12.
- Turner & Walls, New York, N. Y. Shirtings in the piece woven from silk, cotton, or mixture of the same. No. 159,773; Oct. 3.
- Turner and Walls, New York, N. Y. Silk, cotton, and wool piece goods and combinations of same. No. 162,921; Dec. 26.
- Turtle Bros. (See Turtle, Harry F.)
- Turtle, Harry F., doing business as Turtle Bros., New York, N. Y. Linen piece goods. Nos. 160,117-18; Oct. 10.
- Tuscan Tire & Rubber Company, The, Carrollton, Ohio. Rubber tires for automobiles. No. 157,227; July 25.
- Tuskeloid Company, Inc., New York, N. Y. Hair, nail, tooth, hat, and cloth brushes. Nos. 152,521-2; Feb. 28.
- Tuskeloid Company, Inc., New York, N. Y. Nail polishers and atomizers. Nos. 153,033-4; Mar. 7.
- Tusuline Company, Akron, Ohio. Paint for preserving hardening and waterproofing certain articles. No. 150,628; Jan. 3.
- Tutti Frutti Beverage Company, Inc., Brooklyn, N. Y. Bottled soda water and sirup for making same. No. 153,035; Mar. 7.
- Tuttle & Harmon. (See Tuttle, Sarah W.)
- Tuttle, Ivan E., Fort Wayne, Ind. Foot powder. No. 151,056; Jan. 10.
- Tuttle, Orley C., Old Forge, N. Y. Artificial bait. No. 156,450; June 20.
- Tuttle, Orley C., Old Forge, N. Y. Artificial bait. No. 157,597; Aug. 1.

Alphabetical list of registrants of trade-marks—Continued.

- Tuttle, Sarah W., doing business as Tuttle & Harmon, Burton, assignor to D. Robinson, Middlefield, Ohio. Maple sirup. No. 162,393; Dec. 12.
- Tuttle, W. E., Company, The, Rochester, N. Y. Leather shoes, particularly men's shoes. No. 159,133; Sept. 19.
- Twersky, Morris, Buffalo, N. Y. Preventive for venereal diseases. No. 150,629; Jan. 3.
- Twin City Brick Company, St. Paul, Minn. Brick. No. 159,774; Oct. 3.
- Twin City Forge and Foundry Company, Stillwater, Minn. Drop forgings and castings. No. 155,102; May 16.
- Twin Tube & Rubber Company, Chicago Heights, Ill. Rubber heels. No. 155,296; May 23.
- Twinplex Sales Co., St. Louis, Mo. Electrical warming apparatus. No. 155,103; May 16.
- Twistout Thumb Tack Company, Germantown, Pa. Thumb tacks. No. 157,228; July 25.
- Two Star Mfg. Co., Sayville, and Brooklyn, N. Y. Leak proof composition for tires. No. 153,885; Mar. 28.
- Two & Three Quarters Company. (See Sappington, J. W.)
- Twyman, Sidney J., Dayton, Ohio. Toy circus. No. 156,451; June 20.
- Tyfe, George B., Chicago, Ill. Table and cooking sirup. No. 162,433; Dec. 12.
- Tyler, W. S., Company, The, Cleveland, Ohio. Vibrated-screen separating machines. No. 152,523; Feb. 28.
- Type-Adder Mfg. Corp., New York, N. Y. Adding machines and adding-machine attachments. No. 156,768; July 11.
- Typo Trading Corporation, New York, N. Y. Table game. No. 153,336; Mar. 14.
- Tyson Shirt Company, Norristown, Pa. Night shirts, pyjamas, underwear. No. 154,718; Apr. 18.
- U & J Carburetor Company, The, Chicago, Ill. Timers for internal-combustion engines. No. 158,551; Sept. 5.
- U. R. S. Candy Stores, Inc., Wilmington, Del., and New York, N. Y. Certain named foods. No. 161,849; Nov. 21.
- U. R. S. Candy Stores, Inc., doing business as United Happiness Candy Stores, Long Island City, N. Y. Candy. No. 162,608; Dec. 19.
- Ubiko Milling Company, St. Bernard, Ohio. Dairy ration. No. 160,032; Oct. 10.
- Ucanco Candy Company, Davenport, Iowa. Candy, such as chocolates, etc., marketed in individual wrappers. No. 152,524; Feb. 28.
- Uehling Instrument Company, Paterson, N. J., and New York, N. Y. Gas filters. No. 159,557; Sept. 26.
- Uffelmann Baking Company, Cincinnati, Ohio. Bread. No. 159,648; Sept. 26.
- Uhlmann, Bernhard, Passaic, N. J. Medicinal compound for rheumatic ailments. No. 152,285; Feb. 21.
- Uhry, Felix, Chicago, Ill. Powder puffs. No. 155,852; June 6.
- Uhry, Heyman, doing business as The Itchgon Co., New Orleans, La. Medicine for skin troubles. No. 159,775; Oct. 3.
- Ukman, Max C., St. Louis, Mo. Seat pads or cushions. No. 157,783; Aug. 15.
- Ullman Manufacturing Co., The, New York, N. Y. Black and colored crayons and the labels of same used on the crayons and in boxes, receptacles, and packages containing the same. No. 160,698; Oct. 24.
- Ullman, Sigmund, Company, New York, N. Y. Printing inks. No. 152,080; Feb. 14.
- Ullman, Sigmund, Company, New York, N. Y. Printing inks. No. 152,631; Feb. 28.
- Ulmann, Bernhard, Co. Inc., New York, N. Y. Woven textile fabric in the piece, used as foundation material for art needlework. Nos. 154,403-4; Apr. 11.
- Ulmann, Bernhard, Co. Inc., New York, N. Y. Certain named publications. No. 162,394; Dec. 12.
- Ulrich & Donaldson, New York, N. Y. Taffeta cloth. No. 161,657; Nov. 14.
- Ultra Refined Crude Products Co., Chicago, Ill. Medicinal preparation. No. 159,558; Sept. 26.
- Uncas Manufacturing Co., Providence, R. I. Finger rings. No. 156,769; July 11.
- Uncle Sam Chemical Co., New York, N. Y. Exterminating fluids for exterminating roaches, bedbugs, and disinfectants. No. 158,840; Sept. 12.
- Undertakers Fluid Co. Inc., Syracuse, N. Y. Arterial and cavity embalming fluid. No. 150,630; Jan. 3.
- Undertakers Supply Company, Chicago, Ill. Embalming fluid. No. 158,124; Aug. 22.
- Underwriters' Fire Equipment Company. (See Brooks, Stephen H.)
- Union Allumettière Société Anonyme, Brussels, Belgium. Matches. No. 155,545; May 30.
- Union Bed and Spring Company, Chicago, Ill. Bed springs. No. 159,134; Sept. 19.
- Union Cutlery Co., Olean, N. Y. Razors. No. 153,337; Mar. 14.
- Union Drop Forge Company, Chicago, Ill. Drop forgings. No. 160,699; Oct. 24.
- Union Explosives Co., Clarksburg, W. Va. Dynamite and permissible explosives. No. 153,036; Mar. 7.
- Union Oil Company of California, Los Angeles, Calif. Road oils. No. 158,838; Sept. 12.
- Union Oil Company of California, Los Angeles, Calif. Flushing oils. No. 158,839; Sept. 12.
- Union Paste Company, Boston, Mass. Adhesive paste composed mainly of vegetable substances. No. 154,405; Apr. 11.
- Union Sugar Company, doing business as Alameda Sugar Company. Beef, cane, and maple sugar. No. 160,700; Oct. 24.
- Union Tool Chest Company, Rochester, N. Y. Tool chests. No. 151,267; Jan. 24.
- Union Tool Company, Orange, Mass. Certain instruments of precision. No. 153,886; Mar. 28.
- Union Tool Company, Orange, Mass. Steel clamps, hack-saw frames, scribes screw drivers, etc. No. 155,104; May 16.
- Union Tool Company, Torrance, Calif. Oil-well tools and equipment. No. 156,934; July 18.
- Union Tool Company, Torrance, Calif. Gas engines and oil-well tools and equipment. No. 157,229; July 25.
- Union Tool Company, Torrance, Calif. Steam engines. No. 161,991; Nov. 28.
- Unique Art Manufacturing Co., Newark, N. J. Mechanical toy known as a dancing figure. No. 151,268; Jan. 24.
- Unique Brass Foundry Company, Inc., Buffalo, N. Y. Electric storage batteries and parts thereof. No. 160,988; Oct. 31.
- United Alkali Co., Ltd., The, Liverpool, England. Caustic soda, chlorates, etc. Nos. 154,167-8; Apr. 4.
- United Alloy Steel Corporation, Canton, Ohio. Certain steel office equipment and furniture. No. 152,328; Feb. 21.
- United Alloy Steel Corporation, New York, N. Y., and Canton, Ohio. Black and galvanized sheets. No. 158,125; Aug. 22.
- United Alloy Steel Corporation, New York, N. Y., and Canton, Ohio. Steel, alloy steel, iron and steel bars, and sheet bars. Nos. 159,559-60; Sept. 26.
- United Auto Electric Service, Inc., Newark, N. J. Storage batteries. No. 156,770; July 11.
- United Candy Company, Boston, Mass. Candy. No. 162,143; Dec. 5.
- United Candy & Pastry Company, Washington, D. C. Candy, cake, bread, and pastry. No. 151,985; Feb. 14.
- United Chemical Products Company, Los Angeles, Calif. Washing compound. No. 157,784; Aug. 15.
- United Cigar Stores Company of America, Jersey City, N. J., and New York, N. Y. Cigars, cigarettes, cheroots, snuff, and manufactured tobacco. No. 155,297; May 23.
- United Cigar Stores Company of America, Jersey City, N. J., and New York, N. Y. Candy and chocolate. No. 161,658; Nov. 14.
- United Cork Companies, Lyndhurst, N. J., and New York, N. Y. Cork bulletin boards. No. 160,033; Oct. 10.
- United Danish Butter Association, Inc., New York, N. Y. Butter. No. 153,338; Mar. 14.
- United Drug Company, Boston, Mass. Nonalcoholic vehicle or base for use by pharmacists in compounding prescriptions. No. 154,169; Apr. 4.
- United Drug Company, Boston, Mass. Toothbrushes. Nos. 158,553-4; Sept. 5.
- United Electric Company, The, Canton, Ohio. Monthly publication. No. 150,631; Jan. 3.
- United Electric Company, The, Canton, Ohio. Electric suction cleaners. No. 150,697; Jan. 3.
- United Fig & Date Co., Chicago, Ill. Salted nuts and nut lunch. No. 158,367; Aug. 29.
- United Fig & Date Company, The, Chicago, Ill. Salted peanuts and almonds, peanut butter. No. 160,702; Oct. 24.
- United Fruit Company, Boston, Mass. Soap, common, laundry, toilet, and bar soap. No. 162,395; Dec. 12.
- United Fruit Company, Boston, Mass. Soap—Namely, common, laundry, toilet, and bar. No. 162,922; Dec. 26.
- United Fruit Company, Boston, Mass. Soap, common soap, laundry soap, toilet soap, and bar soap. No. 162,923; Dec. 26.
- United Happiness Candy Stores. (See U. R. S. Candy Stores, Inc.)
- United Hat & Cap Co., Chicago, Ill. Children's caps. No. 161,523; Nov. 7.
- United Hosiery Mills Corporation, Chattanooga, Tenn. Stocking dolls. No. 153,887; Mar. 28.
- United Hosiery Company, New York, N. Y. Hosiery. No. 161,652; Nov. 14.
- United Iron Works, Inc., Kansas City, Mo. Certain machinery and tools. No. 152,527; Feb. 28.
- United Iron Works, Inc., Kansas City, Mo. Refrigerators, ice plants, water-cooling systems. No. 162,609; Dec. 19.
- United Knitting Works Company (Limited), The, Aarburg, Switzerland. Knit underwear. No. 22,103; renewed Dec. 6, 1922.
- United Manufacturing Trimming Co. Inc., New York, N. Y. Certain buttons, buckles, girdles, beads, spangles. No. 158,841; Sept. 12.
- United Metal Box Co., New York, N. Y. Switch boxes, motor inclosures, and safety switches. No. 155,853; June 6.
- United Mills Company, Incorporated, Louisville, Ky. Hosiery. No. 157,230; July 25.
- United Nut Stores. (See Antonopoulos, John D.)
- United Oil Company, Incorporated, The, Baltimore, Md. Lubricating oils. No. 155,105; May 16.
- United Paper Company, Atlanta, Ga. Fruit and vegetable wrappers. No. 155,106; May 16.
- United Phonograph Stores Inc., New York, N. Y. Printed copies of musical compositions. No. 152,043; Feb. 14.
- United Retail Chemists Corporation, New York, N. Y. Certain medical appliances. No. 154,406; Apr. 11.

- United Retail Chemists Corporation, New York, N. Y. Certain medicinal preparations. No. 157,397; Aug. 1.
- United Royalties Corporation, New York, N. Y. Can openers. No. 151,615; Feb. 7.
- United Royalties Corp., New York, N. Y. Petticoats. No. 154,719; Apr. 18.
- United Rubber Company, The, Akron, Ohio. Rubber vehicle-tire casings and tubes. No. 153,037; Mar. 7.
- United Service Distributors. (See Kappus, John M.)
- United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Awls, drivers, and sewing-machine needles. No. 153,888; Mar. 28.
- United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Machines and parts thereof and tools used in the manufacture of boots and shoes. No. 158,129; Aug. 22.
- United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Cement such as is used in the manufacturing and repairing of boots and shoes. No. 158,555; Sept. 5.
- United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Cement such as is used in the manufacturing and repairing of boots and shoes. No. 159,564; Sept. 26.
- United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Ink, dye, or stain used in the manufacture and repair of boots and shoes. No. 161,324; Nov. 7.
- United Society of Christian Endeavor, Boston, Mass. Jewelry. No. 21,469; renewed July 19, 1922.
- United Star Herb Medicine Co., Jersey City, N. J. Certain medicinal herb preparations. No. 160,989; Oct. 31.
- U. S. Automobile Indicator Co., The, Bridgeport, Conn. Electric signal and tail lights for use on automobiles. No. 158,552; Sept. 5.
- U. S. Bottling Co. (See Silverman, Herman.)
- U. S. Carburetor Co. Inc., New York, N. Y. Carburetors. No. 159,562; Sept. 26.
- U. S. Copper Products Corp., Cleveland, Ohio. Brass and copper seamless tubing. No. 154,908; May 16.
- U. S. Glove Co., Marion, Ind. Leather-palm work gloves, a combination of leather and cotton flannel. No. 155,182; May 16.
- U. S. Manifold Company, Chicago, Ill. Typewriter ribbons and carbon paper. No. 155,546; May 30.
- U. S. Oil & Supply Co., Providence, R. I. Wool oil used to lubricate and soften wool preparatory to spinning. No. 152,286; Feb. 21.
- U. S. Oil Works. (See Bradt, Charles C.)
- U. S. Prophylactic Co. Inc., New York, N. Y. Preparation for the treatment and prevention of venereal diseases. No. 151,274; Jan. 24.
- U. S. Slicing Machine Company, Laporte, Ind. Slicing machines. No. 154,456; Apr. 11.
- U. S. Yarn Co., Inc., Brooklyn, N. Y. Mercerized and cotton yarns and artificial and thrown silk. No. 157,233; July 25.
- United States Asbestos Company, Lancaster, Pa. Fabric, brake, and transmission lining. No. 160,034; Oct. 10.
- United States Asphalt Refining Company, The, New York, N. Y. Paving materials of asphalt. No. 160,316; Oct. 17.
- United States Base Ball Manufacturing Co. (See Cerrone, F. C.)
- United States Brewing Company, Newark, N. J. Beer and near beer. No. 159,561; Sept. 26.
- United States Chain & Forging Co., Pittsburgh, Pa. Chains of base metal and tire-grip chains. No. 159,563; Sept. 26.
- United States Chain & Forging Co., Pittsburgh, Pa. Chains of base metal, cross and tire chains. No. 162,144; Dec. 5.
- United States Dental Manufacturing Co., The, Cleveland, Ohio. Dental tools. Nos. 158,556-7; Sept. 5.
- United States Dental Specialty Co., San Francisco, Calif. Tooth paste. No. 161,325; Nov. 7.
- United States Envelope Company, Springfield, Mass. Certain named stationery. No. 154,170; Apr. 4.
- United States Envelope Company, Springfield, Mass. Certain paper and stationery. No. 155,298; May 23.
- United States Envelope Company, Springfield, Mass. Envelopes. No. 158,127; Aug. 22.
- United States Envelope Company, Springfield, Mass. Envelopes. No. 160,701; Oct. 24.
- United States Fastener Company, Portland, Me., and Boston, Mass. Snap fasteners used on gloves, pocket-books, and similar articles. No. 162,924; Dec. 26.
- United States Fiber Products Company, Sacramento, Calif. Fibrous material used for heat and sound insulation and sheathing. No. 159,776; Oct. 3.
- United States Foil Company, Louisville, Ky. Foil wrappers. No. 153,339; Mar. 14.
- United States Graphite Company, The, Saginaw, Mich. Paint pigment. No. 162,397; Dec. 12.
- United States Gutta Percha Paint Company, Saco, Me., and Providence, R. I. Ready-mixed paint. No. 155,107; May 16.
- United States Gypsum Company, Chicago, Ill. Plaster wall board. No. 153,038; Mar. 7.
- United States Gypsum Company, Chicago, Ill. Calcined gypsum plasters. No. 156,453; June 20.
- United States Gypsum Company, Chicago, Ill. Calcined gypsum, plaster of Paris, and Keene's cement. No. 156,500; June 27.
- United States Gypsum Company, Chicago, Ill. Pottery and casting plaster. No. 157,438; Aug. 1.
- United States Gypsum Company, Chicago, Ill. Wall plaster, plaster of Paris, calcined gypsum, and cement-plaster stucco. No. 159,777; Oct. 3.
- United States Gypsum Company, Chicago, Ill. Calcined gypsum wall plaster. No. 160,315; Oct. 17.
- United States Gypsum Company, Chicago, Ill. Calcined gypsum, plaster of Paris, wall plaster, etc. Nos. 160,703-11; Oct. 24.
- United States Gypsum Company, Chicago, Ill. Agricultural gypsum and land plaster. No. 162,396; Dec. 12.
- United States Gypsum Company, Chicago, Ill. Casting, orthopedic, and dental plaster. No. 162,610; Dec. 19.
- United States Hair Net Co., Chicago, Ill. Hair nets. No. 158,126; Aug. 22.
- United States Overall Manufacturing Company, The, Cincinnati, Ohio. Overalls, overall coats, trousers, etc. No. 158,842; Sept. 12.
- United States Overall Manufacturing Company, The, Cincinnati, Ohio. Overalls, coveralls, work shirts, etc. No. 157,231; July 25.
- United States Ozon Company, Scottsdale, Pa. Water-purifying machinery and parts thereof. No. 162,145; Dec. 5.
- United States Paper Mills, Inc., Chambersburg, Pa., and New York, N. Y. Paper toweling and napkins. No. 160,712; Oct. 24.
- United States Paper Mills, Inc., Chambersburg, Pa., and New York, N. Y. Paper toweling and napkins. Nos. 162,997-8; Dec. 26.
- United States Playing Card Company, Cincinnati, Ohio. Playing cards. Nos. 151,269-73; Jan. 24.
- United States Playing Card Company, The, Cincinnati, Ohio. Playing cards. No. 151,986; Feb. 14.
- United States Playing Card Company, The, Cincinnati, Ohio. Playing cards. Nos. 152,528-9; Feb. 28.
- United States Playing Card Company, The, Cincinnati, Ohio. Playing cards. No. 153,343; Mar. 14.
- United States Playing Card Company, The, Cincinnati, Ohio. Playing cards. Nos. 153,889-94; Mar. 28.
- United States Playing Card Company, The, Cincinnati, Ohio. Playing cards. No. 155,183; May 16.
- United States Playing Card Company, The, Cincinnati, Ohio. Playing cards. No. 155,547; May 30.
- United States Playing Card Company, East Norwood, Cincinnati, Ohio. Playing cards. No. 157,439; Aug. 1.
- United States Playing Card Company, The, Cincinnati, Ohio. Playing cards. No. 158,128; Aug. 22.
- United States Playing Card Company, The, Cincinnati, Ohio. assignor to Standard Playing Card Company, Chicago, Ill. No. 158,843; Sept. 12.
- United States Playing Card Company, The, Cincinnati, Ohio. Playing cards. No. 160,713; Oct. 24.
- United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Boots, shoes, and slippers made of fabric and rubber. No. 150,990; Jan. 10.
- United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Golf-balls. No. 152,530; Feb. 28.
- United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Insulated wire cable. No. 153,341; Mar. 14.
- United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Traveling bags, envelopes of wallet form, brief cases, etc. No. 154,407; Apr. 11.
- United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Brief cases, music rolls, music folds, and collar bags. No. 154,408; Apr. 11.
- United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Waterproof clothing. No. 154,720; Apr. 18.
- United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Boots and shoes made of rubber and fabric. No. 154,721; Apr. 18.
- United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Boots and shoes composed of rubber and fabric. No. 154,722; Apr. 18.
- United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Hose made of cotton and rubber and hose made of linen. No. 160,035; Oct. 10.
- United States Sales Corporation, St. Louis, Mo. Sheet-rubber patches. No. 157,232; July 25.
- United States Steel Toy Company, Plainville, Mass. Child's wheeled car. No. 153,342; Mar. 14.
- United States Tent & Awning Company, Chicago, Ill. Portable houses. No. 159,778; Oct. 3.
- United States Tent & Awning Company, Chicago, Ill. Tents. No. 160,036; Oct. 10.
- United States Tire Company, New York, N. Y. Rubber tires. No. 151,987; Feb. 14.
- United States Tire Company, New York, N. Y. Rubber tires for vehicles. No. 153,950; Mar. 28.
- United States and South America Corporation, New York, N. Y. Aniline colors and dyes, dentifrices, perfumes, etc. No. 158,130; Aug. 22.
- United Steel and Wire Co., Battle Creek, Mich. Poultry crates. No. 153,554; Mar. 21.
- United Stores Supply Company, Minneapolis, Minn. Powder for cleaning closet bowls. No. 159,565; Sept. 26.
- United Turkey Red Company, Limited, Glasgow, Scotland. Laundry and toilet soap, soap powder, etc. No. 151,988; Feb. 14.

Alphabetical list of registrants of trade-marks—Continued.

- United Turkey Red Company, Limited, Glasgow, Scotland. Certain articles of clothing. No. 156,454; June 20.
- United Turkey Red Company, Limited, Glasgow, Scotland. Cotton table covers, handkerchiefs, doilies, etc. No. 157,612; Aug. 8.
- United Turkey Red Company Limited, Glasgow, Scotland. Certain cotton goods not in the piece. No. 159,779; Oct. 3.
- United Vegetable Oil Refinery, Inc., Brooklyn, N. Y. Coconut oil for general purposes. No. 158,558; Sept. 5.
- Unity Cotton Mills, La Grange, Ga. Piece goods—namely, duck, canvas, and drilling. No. 153,040; Mar. 7.
- Universal Battery Company, Chicago, Ill. Wet storage batteries. No. 150,991; Jan. 10.
- Universal Battery Company, Chicago, Ill. Certain electrical apparatus. No. 158,311; Aug. 29.
- Universal Dental Company, Philadelphia, Pa. Artificial teeth. No. 154,210; Apr. 4.
- Universal Dental Company, Philadelphia, Pa. Artificial teeth. No. 154,409; Apr. 11.
- Universal Dental Company, Philadelphia, Pa. Artificial teeth. No. 158,844; Sept. 12.
- Universal Industrial Corporation, Hackensack, N. J. Hose clamps. Nos. 150,992-3; Jan. 10.
- Universal Leaf Tobacco Co., Inc., New York, N. Y. Leaf tobacco. No. 153,343; Mar. 14.
- Universal Machine Company, Baltimore, Md. Piston rings. No. 160,037; Oct. 10.
- Universal Optical Corporation, Providence, R. I. Spectacles, eyeglasses, goggles, binoculars, telescopic sights, etc. No. 151,412; Jan. 31.
- Universal Shoe Plate Company, The, Cleveland, Ohio. Shoe plates. No. 157,598; Aug. 8.
- Upjohn Company, The, Kalamazoo, Mich. Chemical, medicinal, and pharmaceutical preparations. No. 154,171; Apr. 4.
- Up-To-Date Candy Mfg. Co., New York, N. Y. Candy. No. 154,849; May 9.
- Upp, Clark W., Oberlin, Ohio. Hair eradiator. No. 153,895; Mar. 28.
- Uppressit Products Corporation, New York, N. Y. Disinfectant-holder attachment for telephone mouthpieces. No. 152,329; Feb. 21.
- Upson Company, The, Lockport, N. Y. Metallic fasteners for wallboards. No. 151,616; Feb. 7.
- Upson Nut Company, The, Unionville, Conn., assignor to The Bourne-Fuller Company, Cleveland, Ohio. Bolts for carriages, machines, plows, etc. No. 20,628; renewed Jan. 19, 1922.
- Upson-Walton Company of New York, The, New York, N. Y. Wire-rope cables used in well drilling. No. 154,172; Apr. 4.
- Uradia Company, Houston, Tex. Liquids for charging and recharging batteries. No. 158,131; Aug. 22.
- Urban, Stephen, Cleveland, Ohio. Eye medicine. No. 151,989; Feb. 14.
- Urich, Benjamin, Milwaukee, Wis. Keys. No. 162,146; Dec. 5.
- Usit Manufacturing Company of America Inc., New York, N. Y. Face powder and wrinkle cream. No. 153,039; Mar. 7.
- Utakichi, Kawasaki, San Francisco, Calif. Toy automobiles. No. 150,420; Jan. 3.
- Utica Bedding Factory, Inc., Utica, N. Y. Mattresses. No. 155,590; May 30.
- Utica Bedding Factory, Inc., Utica, N. Y. Mattresses. Nos. 159,136-7; Sept. 19.
- Utica Duxbak Corporation, Utica, N. Y. Certain articles of clothing. No. 159,233; Sept. 19.
- Utica Infant Wear Corp., Utica, N. Y. Diapers. No. 160,317; Oct. 17.
- Utica Knitting Company, Utica, N. Y. Knit underwear for men, women, and children. No. 154,723; Apr. 18.
- Utica Valve & Fixture Company, Utica, N. Y. Gas cocks. No. 151,057; Jan. 10.
- Utility Compressor Company, The, Detroit, Mich. Artificial refrigerating units and household refrigerators. No. 152,531; Feb. 28.
- Utility Manufacturing Company, Inc., Goldsboro, N. C. Built-up packing cases. No. 156,820; July 11.
- Utility Trailer Manufacturing Company, Los Angeles, Calif. Trailers. No. 160,318; Oct. 17.
- Uza Manufacturing Co. (See Smith, Margaret J.)
- Vajada, Joseph, New York, N. Y. Preparation for the treatment of the scalp and growth of hair. No. 157,398; Aug. 1.
- Valatie Mills Corporation, Valatie, N. Y. Knitted sport coats, sweaters and underwear. No. 162,026; Nov. 28.
- Val Blatz Brewing Company, Milwaukee, Wis. Non-alcoholic near beer, beer, malt tonic, sirup, and extract, etc. No. 157,399; Aug. 1.
- Valco Mfg. Co., Inc., New York, N. Y. Sleepers. No. 151,275; Jan. 24.
- Valcour, Frank, Cutbank and Forsyth, Mont. Liquid cleaning compound. No. 159,138; Sept. 19.
- Val Duttonhofer Sons Company, The, Cincinnati, Ohio. Shoes. No. 154,724; Apr. 18.
- Valentine & Company, New York, N. Y. Varnishes, varnish stains, paint enamels, ready-mixed and paste paints. No. 158,845; Sept. 12.
- Valiant, William H., Newark, N. J. Treated dust cloths. No. 162,398; Dec. 12.
- Walker, Chas., & Son, Chicago, Ill. Liquid malt extract. No. 152,536; Feb. 28.
- Vallbona, Buenaventura B., Barcelona, Spain. Alimentary oils. No. 153,041; Mar. 7.
- Valmont Manufacturing Co., Inc., Brooklyn, N. Y. Powder puffs. No. 155,548; May 30.
- Van Co., The. (See Van Buskirk, Herbert C.)
- Van Antwerp's Drug Corporation, Inc., Mobile, Ala. Field and garden seeds. No. 152,635; Feb. 28.
- Van Antwerp's Drug Corporation, Inc., Mobile, Ala. Cigars. No. 153,386; Mar. 14.
- Van Antwerp's Drug Corporation, Inc., Mobile, Ala. Certain artificial flavorings and foods. No. 153,626; Mar. 21.
- Van Arnam Manufacturing Company, Fort Wayne, Ind. Mop wringers. No. 155,299; May 23.
- Van Arnam Manufacturing Company, Fort Wayne, Ind. Mop wringers. No. 162,925; Dec. 26.
- Van Baalen, Heilbrun & Co., New York, N. Y. Bath and lounging robes for men, women, and children, smoking jackets for men. No. 161,326; Nov. 7.
- Van Boskirk, Ethel, South Bend, Ind. Ointment for sprains, bruises, rheumatism, nervousness, etc. No. 158,132; Aug. 22.
- Van Buskirk, Herbert C., doing business as The Van Co., Saugerties, N. Y. Indigestion tablets. No. 159,139; Sept. 19.
- Van Camp Hardware & Iron Company, Indianapolis, Ind. Assorted colors in oil for paints and roof coatings. No. 153,896; Mar. 28.
- Van Camp Packing Company Inc., The, Indianapolis, Ind. Soap. No. 162,611; Dec. 19.
- Van Camp Packing Company Inc., The, Indianapolis, Ind. Salad oil. No. 162,926; Dec. 26.
- Van Cruller Company, Newark, N. J. Crullers. No. 152,532; Feb. 28.
- Van de Carr Paper Company, Stockport, N. Y. Paper for wrapping and packing purposes. No. 160,990; Oct. 31.
- Van Degrieffs, Los Angeles, Calif. Girls', boys', and babies' shoes. No. 156,148; June 13.
- Vanderhost, Byron C., et al., trustees. (See Lowman, Eugene M., assignor.)
- Vanderporten, Geo., New York, N. Y. Shoes of leather. No. 150,394; Jan. 10.
- Van Dyk & Lindsay Inc., New York, N. Y. Tunis dates, Colmar grapes, muscatel grapes, and Belgian endives. No. 153,559; Sept. 5.
- Van Dyk & Reeves, Brooklyn, N. Y. Fresh dates. No. 154,725; Apr. 18.
- Van Dyk and Reeves, assignor to Van Dyk and Reeves, Inc., Brooklyn, N. Y. Fresh dates. No. 156,771; July 11.
- Van Eps-Burr Corporation, New York, N. Y. Banjos. No. 161,327; Nov. 7.
- Van Houten, C. J., & Zoon, Weesp, Netherlands, and Chicago, Ill. Cocoa. No. 161,653; Nov. 14.
- Vanity Fair Silk Mills, Reading, Pa. Bloomers. No. 154,727; Apr. 18.
- Van Leeuwen, William H., Jr., Grand Rapids, Mich. Overalls, work shirts, mackinaws, etc. No. 156,074; June 13.
- Van Lopik, G. P., & Co. (See Van Lopik, Garrett P.)
- Van Lopik, Garrett P., doing business as G. P. Van Lopik & Co., Grand Haven, Mich. Misses' and children's dresses. No. 161,654; Nov. 14.
- Van Meter, James W., San Francisco, Calif. Chemicals for generating gas for fumigating and disinfecting purposes. No. 153,627; Mar. 21.
- Van Raalte Company, Inc., New York, N. Y. Fabric gloves, hosiery, and women's underwear of knitted and textile fabrics. No. 154,726; Apr. 18.
- Van Raalte Company, Inc., New York, N. Y. Veils and veilings and nettings in the piece. No. 155,549; May 30.
- Van Raalte Company, Inc., New York, N. Y. Hosiery. No. 158,133; Aug. 22.
- Van Raalte Company, New York, N. Y. Stockings. No. 160,319; Oct. 17.
- Van Rouge Co. Inc., Minneapolis, Minn. Nonalcoholic maltless beverage and sirup for making same. No. 150,632; Jan. 3.
- Van Slyke, G. W., & Horton, Albany, N. Y. Cigars. No. 150,995; Jan. 10.
- Van Slyke, G. W., & Horton, Albany, N. Y. Cigars. No. 153,345; Mar. 14.
- Van Toy Co., The, Cleveland, Ohio. Phonograph or sound-reproducing instrument. No. 155,108; May 16.
- Van Vleet-Mansfield Drug Co., Memphis, Tenn. Carbolic ointment, eye and pile salves. No. 158,312; Aug. 29.
- Van Zelm, L. Franklin, Pelham, N. Y. Series or succession of drawings or pictures. No. 157,599; Aug. 8.
- Vapo-Cresolene Company, The, Stanley, N. J., and New York, N. Y. Medical compounds for the cure of lung and throat diseases. No. 21,647; renewed Aug. 16, 1922.
- Varga, John, South Bethlehem, Pa. Remedy for hemorrhoids. No. 152,533; Feb. 28.
- Varney, Charles F., Jamestown, N. Y. Malt-beverage clarifier. No. 162,459; Dec. 12.
- Vassar, Homer E., Worcester, Mass. Chemical carbon remover. No. 151,617; Feb. 7.
- Vassar Swiss Underwear Co., Chicago, Ill. Knitted and woven union suits, vests, and drawers. No. 151,990; Feb. 14.
- Vaughan & Bushnell Manufacturing Company, Chicago, Ill. Tools. No. 150,996; Jan. 10.

- Vaughan, George A., & Co., Putnam, Conn. Mechanically-operated boat lowering and hoisting gear. No. 157,234; July 25.
- Vaughan, Latimer C., New York, N. Y. Men's, ladies', and children's cotton, silk, fiber-silk, and wool hose. No. 156,935; July 18.
- Vauxhall Motors, Limited, Luton, England. Automobiles and motor cycles. No. 157,400; Aug. 1.
- Vawter and Vawter, Los Angeles, Calif. Pharmaceutical preparations. No. 154,173; Apr. 4.
- Vaycide Chemical Corporation, Birmingham, Ala. Insecticide. Nos. 150,633-4; Jan. 3.
- Vaycide Chemical Corporation, Birmingham, Ala. Medicinal preparation for poultry to stimulate egg laying. No. 151,618; Feb. 7.
- Vaycide Chemical Corporation, Birmingham, Ala. Medicinal preparation for poultry. Nos. 151,619-21; Feb. 7.
- Vega Company, The, Boston, Mass. Banjos. Nos. 161,328-9; Nov. 7.
- Vega Company, The, Boston, Mass. String, wind, and percussion musical instruments. No. 161,330; Nov. 7.
- Veghte, Harry V., New York, N. Y. Inner tubes for pneumatic tires. No. 156,558; June 27.
- Vegolene Co., The, Bellingham, Wash. Table sirup. No. 162,399; Dec. 12.
- Velo y Filgueira, Angel, Habana, Cuba. Mineral water. No. 156,164; June 20.
- Velo y Filgueira, Angel, Habana, Cuba. Mineral water. No. 159,875; Oct. 10.
- Velvetile Floor Co., Chicago, Ill. Stucco composition. No. 159,780; Oct. 3.
- Velvetta Mfg. Co., The. (See Schull, William A.)
- Velvotone Chemical Co., The, Jacksonville, Fla. Preparation to promote the growth of the hair and for the treatment of dandruff, etc. No. 159,140; Sept. 19.
- Veneero Lac Company, New York, N. Y. Polish for furniture, automobiles, etc. No. 153,042; Mar. 7.
- Ventalite Shade Regulator Company, St. Louis, Mo. Window attachments for carrying and adjusting window shades to any desired position. No. 152,534; Feb. 28.
- Venus Arch-Support Company, Chicago, Ill. Dressings and dry cleaners used on fabrics, leathers, etc. No. 159,141; Sept. 19.
- Venus Manufacturing Company, Minneapolis, Minn. Shirts with reversible cuffs. No. 156,821; July 11.
- Verband Schweiz Armaturenfabriken, Bern, Berne, Switzerland. Metal cocks. No. 156,455; June 20.
- Vereinigte Chininfabriken Zimmer & Co., Gesellschaft mit beschränkter Haftung, Frankfurt-on-the Main, Germany. Bactericide and antiseptic preparations. Nos. 158,313-14; Aug. 29.
- Verguet, Comoy, St. Claude, France. Tobacco pipes and cigar and cigarette holders. No. 155,550; May 30.
- Vermeulen, Leendert, Waddinxveen, near Gouda, Netherlands. Ointment for treatment of burns, scalds, etc. No. 161,655; Nov. 14.
- Vernart Manufacturing Corp., New York, N. Y. Decorated slippers of felt or fabric. No. 161,331; Nov. 7.
- Vernon Manufacturing Co., Mount Vernon, N. Y. Ammonia. Nos. 161,332-3; Nov. 7.
- Vernor, James, Company, Detroit, Mich. Ginger ale and ginger-ale extract. No. 157,293; July 25.
- Vernor, James, Company, Detroit, Mich. Ginger ale and ginger-ale extract. No. 157,600; Aug. 8.
- Verso-Tone Medicine Co. (See Crooks, Harold.)
- Verto Products Company, Pawtucket, R. I. Carburetors. No. 153,897; Mar. 28.
- Vester, Alfred, Sons, Inc., Providence, R. I. Ornamental electrical fixture parts of stamped brass and copper. No. 150,997; Jan. 10.
- Vibert, R. Laurent, Lyon, France. Hair tonic and lotion. No. 154,410; Apr. 11.
- Vibralarm Mfg. Company, The, Kansas City, Mo. Electrically-operated automobile theft alarms. No. 162,400; Dec. 12.
- Vick, Albert F. W., Philadelphia, Pa. Material for filling cavities in trees. No. 151,622; Feb. 7.
- Vick Chemical Company, Greensboro, N. C. Medicinal salve for croup, colds, pneumonia, catarrh, etc. No. 157,235; July 25.
- Vickery, Amy L., doing business as Mirabene Chemical Co., Chicago, Ill. Eye medicine. No. 161,334; Nov. 7.
- Victor-American Fuel Company, Portland, Me., and Denver, Colo. Coal. Nos. 152,322-7; Feb. 21.
- Victor Company. (See Dottenheim, Mark.)
- Victor Manufacturing and Gasket Company, Chicago, Ill. Receptacles for gaskets. No. 154,175; Apr. 4.
- Victor-Monaghan Company, Greenville, S. C. Cotton piece goods. No. 159,781; Oct. 3.
- Victor Radio Corporation, New York, N. Y. Radio apparatus and parts. No. 162,401; Dec. 12.
- Victor Rubber Company, The, Springfield, Ohio. Tire casings and tubes. No. 154,850; May 9.
- Victor Safe and Lock Company, The, Cincinnati, Ohio. Safes and locks. No. 159,567; Sept. 26.
- Victoria Undergarment Co. Inc., New York, N. Y. Ladies' muslin and silk underwear. No. 159,142; Sept. 19.
- Victory Bag & Paper Co., Marinette, Wis. Paper bags. No. 158,846; Sept. 12.
- Victory Bottling Co. (See Poole, John W.)
- Victory Coal Save Company. (See Robeson, William A.)
- Victory Malt Company. (See Finkelstein, Morris.)
- Victory Manufacturing Co. (See Smith, Michael P.)
- Victory Ring Company, Inc., Charleston, W. Va., and El Paso, Tex. Piston packing rings. No. 160,714; Oct. 24.
- Victory Rubber Company, Seattle, Wash. Heels, soles, composed entirely or partly of rubber. No. 156,456; June 20.
- Vidor, King W., Los Angeles, Calif. Toys, particularly toy figures whittled out of wood, etc. No. 151,991; Feb. 14.
- Vienna Medical Company, Detroit, Mich. Cough lozenges and sirup and compound for treatment of coughs. No. 159,143; Sept. 19.
- Vignolo-Giacomino Company, Incorporated, Los Angeles, Calif. Olive oil. No. 162,927; Dec. 26.
- Vigo-American Clay Company, Terre Haute, Ind. Hollow building tile. No. 159,234; Sept. 19.
- Viles, Ralph K., Minneapolis, Minn. Bed shirts. No. 161,335; Nov. 7.
- Villarias Fernandez, Ignacio, Santaña, Spain. Canned fish, namely, anchovies. No. 154,543; Apr. 18.
- Vimco Mfg. Company, Inc., Buffalo, N. Y. Portable electric lamps. No. 151,623; Feb. 7.
- Vinard Manufacturing Company, Inc., Rochester, N. Y. Polish and cleaner for automobiles, furniture, and wood. No. 152,535; Feb. 28.
- Vincent, George, New York, N. Y. Tracing paper. No. 159,568; Sept. 26.
- Vincent, George, New York, N. Y. Tracing paper. No. 161,384; Nov. 7.
- Viner, Burpee E., Hartford, Conn. Certain mops, brushes, and dusters. No. 155,551; May 30.
- Viner, Burpee E., Hartford, Conn. Certain brushes, mops, and dusters. No. 158,368; Aug. 29.
- Vinikow, Joseph, Seattle, Wash. Candies. No. 156,559; June 27.
- Vinolia Company Limited. (See Blondeau et Cie., assignor.)
- Vinson Coffee Co., Jackson, Tenn. Coffee. No. 151,992; Feb. 14.
- Virden Packing Company, Oakland, Calif. Canned fruits and vegetables. No. 155,854; June 6.
- Virden Packing Company, Oakland, Calif. Canned fruits and vegetables. No. 156,772; July 11.
- Virden Packing Company, Oakland, Calif. Canned fruits and canned vegetables. No. 156,773; July 11.
- Virden Packing Company, San Francisco, Calif. Smoked meats, sausages, and frankfurters, lard, salad oil, etc. No. 157,236; July 25.
- Virden Packing Company, Oakland, Calif. Canned fruits and vegetables. Nos. 158,560-2; Sept. 5.
- Virden Packing Company, Oakland, Calif. Canned fruits. No. 160,715; Oct. 24.
- Virden Packing Company, Oakland, Calif. Canned fruit. Nos. 160,991-3; Oct. 31.
- Virden Packing Co., South San Francisco, Calif. Canned fish—viz, salmon. No. 162,402; Dec. 12.
- Virginia-Carolina Rubber Co., Inc., Richmond, Va. Certain tires, tubes, accessories for same, etc. No. 154,411; Apr. 11.
- Virginia Dare Company, The, Baltimore, Md. Candies. No. 154,813; May 9.
- Virginia Table Company, Marion, Va. Dining-room and library tables. No. 160,811; Oct. 24.
- Virginia Woodworking Co., Inc., Bristol, Va. Ice-cream cabinets and tubs, refrigerators. No. 162,653; Dec. 19.
- Virzi Bros., New York, N. Y. Musical instruments and parts thereof. No. 151,277; Jan. 24.
- Viscardi, Henry, New York, N. Y. Shaving cream. No. 159,235; Sept. 19.
- "Vita Products," Inc., Baltimore, Md. General tonic. No. 154,412; Apr. 11.
- Vital Sanando Co., Inc., The, New York, N. Y. Liquid for dissolving and removing without pain gallstones from the human body. No. 158,315; Aug. 29.
- Vital Sanando Co., Inc., The, New York, N. Y. Liquid for liver, stomach, and bowel troubles. No. 158,316; Aug. 29.
- Vitalized Water Process Co. (See Smith, Carolyn S.)
- Vitamine Food Products Company, Chicago, Ill. Food products—namely, yeast and artificial foods containing yeast, etc. No. 153,043; Mar. 7.
- Vitamon, A/S., Copenhagen, Denmark. Certain named foods. No. 154,728; Apr. 18.
- Vitamon Corporation, The, New York, N. Y. Vitamines for use as a general tonic. No. 155,552; May 30.
- Vi-Tanika Pharmaceutical Company. (See Hayn, William F.)
- Vitrifryx Company, Chicago, Ill. Hardening and waterproofing ingredients for cement. Nos. 162,928-9; Dec. 26.
- Vittori & Co., Dolmy Watch Co., La Chaux-de-Fonds, Switzerland. Watches and parts of watches. No. 151,993; Feb. 14.
- Vivandou, V., Inc., New York, N. Y. Rouge and face powder in compact form. No. 150,635; Jan. 3.
- Vivandou, V., Inc., New York, N. Y. Certain toilet preparations. No. 151,308; Jan. 24.
- Vivandou, V., Inc., New York, N. Y. Face, talcum, and toilet powders. No. 151,624; Feb. 7.
- Vivandou, V., Inc., New York, N. Y. Certain toilet preparations. No. 156,457; June 20.
- Vivandou, V., Inc., New York, N. Y. Smoking and chewing tobacco, cigars, cigarettes, and stogies. No. 156,458; June 20.

Alphabetical list of registrants of trade-marks—Continued.

- Vivaudou, V., Inc., New York, N. Y. Certain brushes and brooms, powder puffs, and windshield cleaners. No. 157,601; Aug. 8.
- Vivaudou, V., Inc., New York, N. Y. Soaps, shaving creams, powdered soap and shaving stick. No. 157,785; Aug. 15.
- Vivaudou, V., Inc., New York, N. Y. Certain notions. No. 157,786; Aug. 15.
- Vivaudou, V., Inc., New York, N. Y. Veils, hair nets, silk piece goods, woolen piece goods, and lace curtains. No. 158,184; Aug. 22.
- Vivaudou, V., Inc., New York, N. Y. Preparation for producing a glossy effect upon the hair. No. 159,236; Sept. 19.
- Vivaudou, V., Inc., New York, N. Y. Certain toilet preparations. No. 160,994; Oct. 31.
- Vlach, Emil V., New York, N. Y. Salve for boils, cuts, wounds, etc. No. 157,602; Aug. 8.
- Voco Sales Co., The, New York, N. Y. Embroidery stampings. No. 155,855; June 6.
- Voegelé & Dinning Co., The, Mansfield, Ohio. Candy. No. 154,814; May 9.
- Vogel, Frederick B., Philadelphia, Pa. Monthly publication. No. 162,605; Dec. 19.
- Vogel, S., Sons, Hartford, Conn. Canned fruits and vegetables, canned and shell fish. No. 153,085; Mar. 7.
- Vogeler Bros., Inc., Newark, N. J. Mayonnaise dressing. No. 156,075; June 13.
- Vogt Brothers Mfg. Co., Louisville, Ky. Stokers used in connection with steam boilers. No. 160,320; Oct. 17.
- Vogt, Henry, Machine Co. Inc., Louisville, Ky. Ice-making and refrigerating machines. No. 153,746; Mar. 28.
- Voit, William, Co., New York, N. Y. Strings for violins and similar musical instruments. No. 156,787; July 11.
- Volkmar, Frank J., St. Louis, Mo. Preparation for use in the treatment of rheumatism, gout, lumbago. No. 150,636; Jan. 3.
- Volland, P. F., Co., Chicago, Ill. Fabric toy dogs adapted to be stuffed. No. 161,992; Nov. 28.
- Vollmer Clearwater Company, Ltd., The, Lewiston, Idaho. Wheat flour. No. 159,569; Sept. 26.
- Vollmer, Roger H., trading as Eatataba Cheese Company, Phoenixville, Pa. Cheese. No. 157,787; Aug. 15.
- Voltax Company, The, Bridgeport, Conn. Ready-mixed paints and paint enamels. No. 156,774; July 11.
- Volto Company, The, Cleveland, Ohio. Medicament volatilizers. No. 153,086; Mar. 7.
- Volter, Joseph A., New York, N. Y. Hosiery. No. 154,729; Apr. 18.
- Von Bernuth, Oscar, Inc., New York, N. Y. Malt extract. No. 160,812; Oct. 24.
- Voorhees, Joseph P., New York, N. Y. Boys' ribbed hose. No. 157,237; July 25.
- Voss Brothers Manufacturing Co., Davenport, Iowa. Laundry washing machines. Nos. 151,625-7; Feb. 7.
- Voter, G. H., Inc., Boston, Mass. Roofing materials. No. 159,782; Oct. 3.
- Vox-Schallplatten- und Sprechmaschinen-Aktiengesellschaft, Berlin, Germany. Talking machines, dictating machines, and records for talking machines. No. 161,656; Nov. 14.
- Vreeland, C. Duncan, Lake Charles, La. Nonalcoholic, noncereal, maltless beverage. No. 155,359; May 23.
- Vulcan Crucible Steel Co., Aliquippa, Pa. Steel. No. 150,637; Jan. 3.
- Vulpinite Mfg. Co., The, Philadelphia, Pa. Fiber compound. No. 154,174; Apr. 4.
- W. H. & F. Jordan, Jr. Mfg. Co., Philadelphia, Pa. Improved sanitary wax dressing. No. 158,997; Sept. 19.
- W-K-M Co., Donalsonville, Ga. Pile remedy. No. 150,654; Jan. 3.
- W-M Mfg. Co., Kansas City, Mo. First-aid kits. No. 153,076; Mar. 7.
- Wabash Baking Powder Company, Wabash, Ind. Baking powder and soda. No. 155,856; June 6.
- Wabash Baking Powder Company, Wabash, Ind. Cornstarch, flavoring extracts, gelatine dessert, and tapioca. No. 158,847; Sept. 12.
- Wachusett Shirt Co., Leominster, Mass. Men's shirts, night robes, and pajamas. No. 150,999; Jan. 10.
- Wachusett Shirt Co., Leominster, Mass. Men's stiffbosom, negligee, work, and sport shirts, night robes, and pyjamas. No. 156,149; June 13.
- Wacker, George W., Rutherford, N. J. Electric thief and burglar alarms. No. 151,623; Feb. 7.
- Waddell, William W., Chicago, Ill. Soap. No. 157,294; July 25.
- Waddington Condensed Milk Co., Inc., Waddington, N. Y. Unsweetened evaporated milk. No. 150,638; Jan. 3.
- Wade, William H., Chicago, Ill. Stamping and marking devices for marking articles for sale. No. 161,850; Nov. 21.
- Wadhams Oil Company, Milwaukee, Wis. Lubricating oils. No. 159,570; Sept. 26.
- Wadhams Oil Company, Milwaukee, Wis. Lubricating oils and greases. No. 161,732; Nov. 14.
- Wadhams Oil Company, Milwaukee, Wis. Lubricating oils. No. 162,930; Dec. 26.
- Wadsworth-Howland Company, Chicago, Ill. Certain paints, varnishes, enamels, etc. No. 150,639; Jan. 3.
- Wadsworth, Howland & Co., Incorporated, Boston, Mass. Paint enamels, varnishes, paints. No. 151,278; Jan. 24.
- Wadsworth-Howland Company, Chicago, Ill. Nickel polish. No. 159,144; Sept. 19.
- Wadsworth, Howland & Co., Incorporated, Boston, Mass. Dry, paste, and ready-mixed paints. No. 154,413; Apr. 11.
- Wadsworth, Howland & Co., Incorporated, Boston, Mass. Painters' brushes. No. 155,109; May 16.
- Wadsworth Salt Company, The, Wadsworth, Ohio. Salt. No. 160,995; Oct. 31.
- Wagemaker Company, Grand Rapids, Mich. Floor coverings and furniture top coverings made chiefly of linoleum. No. 156,459; June 20.
- Wagner Manufacturing Company, Ardmore, Okla. Popcorn balls. No. 157,788; Aug. 15.
- Wagner Manufacturing Company, The, Sidney, Ohio. Teakettle. No. 162,931; Dec. 26.
- Wagner, Theodore B., Brooklyn, N. Y. Cereal food. No. 162,403; Dec. 12.
- Wagner's, W. T., Sons Company, The, Cincinnati, Ohio. Nonalcoholic, noncereal, maltless beverage. No. 155,554; May 30.
- Wahl Company, The, Chicago, Ill. Fountain pens and parts thereof. No. 156,823; July 11.
- Wahl Company, The, Chicago, Ill. Leads suitable for use in mechanical pencils. No. 159,571; Sept. 26.
- Wahl, M., & Son, New York, N. Y. Hair nets. No. 153,346; Mar. 14.
- Waight, Fred J., & Co., Washington, D. C. Candy. No. 156,076; June 13.
- Waizfelder Braid Co., The, Millbrook and Brooklyn, N. Y. Shoulder straps for camisoles and similar articles. No. 160,716; Oct. 24.
- Walbaum, Goulden & Co., Reims, France. Champagne wines. No. 157,603; Aug. 8.
- Walbaum, Goulden & Co., Reims, France. Champagne wines. Nos. 158,135-6; Aug. 22.
- Walder & Co., Prague, Bohemia, assignor to Walder & Co., Inc. Snap fasteners. No. 153,555; Mar. 21.
- Walder & Co., Inc., Long Island City, N. Y. Snap fasteners. No. 157,789; Aug. 15.
- Walder & Co., Inc., New York and Long Island City, N. Y. Snap and placket fasteners. No. 155,857; June 6.
- Walder & Co., Inc., New York and Long Island City, N. Y. Certain notions. No. 155,858; June 6.
- Walder & Co., Inc., Long Island City, N. Y. Snap fasteners. No. 159,145; Sept. 19.
- Waldkoenig, Florence A., doing business as The Florence Chemical Company, Atlanta, Ga. Certain medicinal preparation. No. 160,717; Oct. 24.
- Waldref Manufacturing Co., The, St. Paul, Minn. Magazine pencils. No. 155,110; May 16.
- Waldron, George G., New York, N. Y. Hair tonics and hair dressings. No. 158,137; Aug. 22.
- Walinder, Mathilda, Chicago, Ill. Antiseptic healing salve. No. 151,630; Feb. 7.
- Walker, A. R., Candy Corporation, Muskegon, Mich. Candies. No. 158,848; Sept. 12.
- Walker, Edward C., 3d, Batavia, N. Y. Pails, pans, vats, buckets, scoops, etc. No. 151,279; Jan. 24.
- Walker, J. D., Coal Company, Brisbin, Pa. Coal. No. 160,038; Oct. 10.
- Walker Knitting Mills Inc., New York, N. Y. Silk, cotton, and woolen piece goods and a combination thereof. No. 157,790; Aug. 15.
- Walker, Madam C. J., Manufacturing Co., The, Indianapolis, Ind. Certain toilet preparations. No. 153,556; Mar. 21.
- Walker, Madame C. J., Inc., Chicago, Ill. Toilet preparations. No. 157,401; Aug. 1.
- Walker, Madam C. J., Manufacturing Company, The, Indianapolis, Ind. Toilet preparations of various kinds of toilet soaps. No. 159,572; Sept. 26.
- Walker-Matteson Company, Joliet, Ill. Fruit-jar rings. No. 157,238; July 25.
- Walker-Matteson Company, Joliet, Ill. Cigars. No. 157,239; July 25.
- Walker Motor Car Specialties Co., Oakland, Calif. Motor-vehicle-steering-wheel locks. Nos. 151,000-1; Jan. 10.
- Walker Properties Association, Austin, Tex. Canned chile con carne and canned hot tamales. No. 151,994; Feb. 14.
- Walker Stetson Company, Boston, Mass. Certain articles of clothing. No. 151,995; Feb. 14.
- Walker Stetson Company, Boston, Mass. Hair nets. No. 158,849; Sept. 12.
- Walker, W. & H., Inc., Pittsburgh, Pa. Soap. No. 157,791; Aug. 15.
- Walker Webbing Co., Providence, R. I. Certain notions. Nos. 155,859-60; June 6.
- Walker Webbing Co., Providence, R. I. Certain notions. Nos. 158,850-3; Sept. 12.
- Wall, Joseph, Revere, Mass. Men's and boys' hats and caps. No. 154,457; Apr. 11.
- Wall, Joseph, doing business as The Jowall Cap Works, Boston, Mass. Men's and boys' hats and caps. No. 158,854; Sept. 12.
- Wall Street Tobacco Co. (See Mosquera, Leoncio.)
- Wallace & Co., Brooklyn, N. Y. Candies. No. 151,629; Feb. 7.
- Wallace & Co., Brooklyn, N. Y. Candies and chocolates. No. 153,045; Mar. 7.
- Wallace & Co., Brooklyn, N. Y. Candies. No. 159,573; Sept. 26.
- Wallace & Co., Brooklyn, N. Y. Candies. No. 160,996; Oct. 31.

- Wallace Institute, Chicago, Ill. Talking-machine records. No. 160,758; Oct. 24.
- Wallace, Leon, & Sons, New York, N. Y. Men's and boys' caps. No. 159,237; Sept. 19.
- Wallace, Leon, & Sons, New York, N. Y. Men's and boys' caps. No. 160,813; Oct. 24.
- Wallace Milling Company, The, Dale, Ind. Wheat flour. No. 151,996; Feb. 14.
- Wallace Milling Company, The, Dale, Ind. Wheat flour. No. 153,046; Mar. 7.
- Wallace & Tiernan Co., Inc., Newark, N. J. Wheat flour. 152,287; Feb. 21.
- Wallace & Tiernan Co., Inc., Newark, N. J. Chemical-control equipment for water purification, chlorine-control apparatus, and certain other apparatus. No. 156,775; July 11.
- Wallace & Tiernan Co., Inc., Newark, N. J. Chlorine-control apparatus. No. 157,629; Aug. 8.
- Wallace & Tiernan Co., Inc., Newark, N. J. Chlorine-control apparatus chemical-control equipment for water purification, etc. No. 160,321; Oct. 17.
- Wallace & Tiernan Co., Inc., Newark, N. J. Chlorine-control apparatus, chemical-control equipment for water purification, etc. No. 160,718; Oct. 24.
- Wallace, William P., Victoria, Va. Medicinal preparation for the kidneys and for diabetes. No. 153,898; Mar. 28.
- Wallbrunn, Kling & Co., Chicago, Ill. Children's water-color palettes. No. 155,555; May 30.
- Wallgren, Bengt, Dover, N. J. Stove polish. No. 157,839; Aug. 15.
- Wallin Mfg. Co., St. Paul, Minn. Shoe-shining stools and cabinets. No. 159,146; Sept. 19.
- Wallner, Henry, & Son, Hoboken, N. J. Linings for Tam o' Shanter hats and bonnets. No. 151,002; Jan. 10.
- Wally, Inc., Cleveland, Ohio. Printed, embossed, and engraved advertising cards, sheets, circulars, etc. No. 155,300; May 23.
- Walmar Laboratory, Oshkosh, Wis. Liquid stove cleansers. No. 155,556; May 30.
- Walrath, John R., Gloversville, N. Y. Fabric gloves. No. 161,661; Nov. 14.
- Walraven, A. T., Book Cover Company, Dallas, Tex. Protective coverings for books. No. 153,557; Mar. 21.
- Walsh Duplicator Corp., New York, N. Y. Duplicator rolls and lead pencils. No. 155,111; May 16.
- Walsh, John, doing business as Shade-O Co., Beverly Farms, Mass. Waterproof paint for coating glass. No. 158,855; Sept. 12.
- Walsh & Mead, New York, N. Y. Valve lifter. No. 162,932; Dec. 26.
- Walsh, Richard E., Fall River, Mass. Laxative in candy form. No. 155,360; May 23.
- Walsh, William M., New York, N. Y. Weekly publication. No. 151,997; Feb. 14.
- Walter Baker & Company, Ltd., Boston, Mass. Ten-pound cakes of sweet-chocolate coatings. No. 156,994; May 25.
- Walter, Otto, Newark, N. J. Roofing tile. No. 162,654; Dec. 19.
- Walter, S., Inc., Philadelphia, Pa. Toilet paper. No. 155,112; May 16.
- Walter, S., Inc., Philadelphia, Pa. Toilet paper. No. 155,301; May 23.
- Walter, S., Inc., Philadelphia, Pa. Certain paper. No. 155,557; May 30.
- Walther & Company, New York, N. Y. Surface-coated, roll-printed, metal-coated, and embossed paper. No. 159,574; Sept. 26.
- Walther, Louis, Manufacturing Company, Philadelphia, Pa. Certain piece goods. No. 161,659; Nov. 14.
- Walther, Louis, Manufacturing Company, Philadelphia, Pa. Worsteds piece goods, woolen piece goods, worsteds and cotton piece goods, etc. No. 162,933; Dec. 26.
- Walther, Louis, Manufacturing Company, Philadelphia, Pa. Wool fabrics in the piece. No. 162,934; Dec. 26.
- Walton, D. S., & Co., New York, N. Y. Toilet paper. No. 160,719; Oct. 24.
- Walton & Hoffman, Buffalo, N. Y. Potato chips. No. 152,537; Feb. 28.
- Wampole, Henry K., and Company. (See Wampole, Henry K., & Co., assignors.)
- Wampole, Henry K., & Co., Philadelphia, Pa. assignors to Henry K. Wampole and Company, Incorporated. Remedy for diseases of the uterine organs and similar ailments. No. 21,233; renewed May 31, 1922.
- Wampole, Henry S., Company, The, Baltimore, Md. Anti-septic solution. No. 159,147; Sept. 19.
- Wanamaker, John, New York, New York, N. Y. Certain articles of clothing. No. 151,998; Feb. 14.
- Wanamaker, John, New York, New York, N. Y. Perfumes, sachets, toilet waters, powders. Nos. 152,288-9; Feb. 21.
- Wanamaker, John, New York, New York, N. Y. Golf balls. No. 152,538; Feb. 28.
- Wanamaker, John, New York, New York, N. Y. Ladies', misses', and children's dresses. No. 156,936; July 18.
- Wanamaker, John, New York, New York, N. Y. Golf balls. No. 158,138; Aug. 22.
- Wanamaker, John, Philadelphia, Philadelphia, Pa. Toilet preparations. No. 155,861; June 6.
- Wanamaker, John, Philadelphia, Philadelphia, Pa. Soaps. No. 155,862; June 6.
- Wanamaker, John, Philadelphia, Philadelphia, Pa. Soaps. No. 157,792; Aug. 15.
- Wanamaker, John, Philadelphia, Philadelphia, Pa. Soaps. No. 159,575; Sept. 26.
- Wanamaker, William H., Philadelphia, Pa. Men's and young men's overcoats. No. 158,139; Aug. 22.
- Wander Company, Chicago, Ill. Crystalline malt extract with pure liquid paraffin. No. 150,640; Jan. 3.
- Wander, S., & Sons, Chemical Co. Inc., Albany, N. Y. Lye for sanitary, household, or domestic use. No. 161,336; Dec. 26.
- Wangee Umbrella Co., New York, N. Y. Umbrella and parasol ferrules and ties. No. 156,937; July 18.
- Wanner, George D., Dayton, Ohio. Kites. No. 153,899; Mar. 28.
- Wappler Electric Co. Inc., Long Island City, N. Y. Electrodes for medical and therapeutical use. No. 163,000; Nov. 7.
- Ward Baking Company, New York, N. Y. Cake. No. 151,999; Feb. 14.
- Ward Baking Company, New York, N. Y. Bread. No. 152,000; Feb. 14.
- Ward Baking Company, New York, N. Y. Bread. No. 152,290; Feb. 21.
- Ward Baking Company, New York, N. Y. Cake. No. 152,291; Feb. 21.
- Ward Baking Company, New York, N. Y. Bread. No. 153,047; Mar. 7.
- Ward Baking Company, New York, N. Y. Cereal breakfast food. No. 153,048; Mar. 7.
- Ward Baking Company, New York, N. Y. Sugar product containing water-soluble vitamins. No. 153,558; Mar. 21.
- Ward Baking Company, New York, N. Y. Bread. No. 157,793; Aug. 15.
- Ward Baking Company, New York, N. Y. Bread. Nos. 159,576-8; Sept. 26.
- Ward Baking Company, New York, N. Y. Bread. No. 161,660; Nov. 14.
- Ward Baking Company, New York, N. Y. Sugar products containing water-soluble vitamins, bran, etc. No. 162,935; Dec. 26.
- Ward, George S., New York, N. Y. Articles plated with precious metal. No. 157,440; Aug. 1.
- Ward Leonard Electric Company, Mount Vernon, N. Y. Certain electrical apparatus. No. 161,030; Oct. 31.
- Ward, Marcus, Inc., New York, N. Y. Writing paper, but known to the trade as linen writing paper. No. 152,292; Feb. 21.
- Ward-Owsley Company, Aberdeen, S. D. Candy. No. 153,347; Mar. 14.
- Ware Coated Paper Company, Ware, Mass. Coated paper. No. 153,387; Mar. 14.
- Ware, James A., Birmingham, Ala. Nonalcoholic, maltless beverage and sirups therefor. No. 153,628; Mar. 21.
- Ware Shoals Mfg. Co., Ware Shoals, S. C. Cotton piece goods. No. 156,460; June 20.
- Ware Shoals Mfg. Co., Ware Shoals, S. C. Cotton piece goods. No. 156,938; July 18.
- Warner Brothers Company, The. (See Peabody, Mary J., assignor.)
- Warner Gear Company, Muncie, Ind. Transmissions, differentials, clutches, control levers, and gears for automotive vehicles. No. 155,113; May 16.
- Warner Sugar Refining Company, New York, N. Y. Sugar in granulated, lump, block, and powdered form. No. 162,612; Dec. 19.
- Warner, William R., & Co., Inc., Wilmington, Del.; New York, N. Y., and St. Louis, Mo. Medicine. No. 151,058; Jan. 10.
- Warner, William R., & Co., Inc., Wilmington, Del.; New York, N. Y., and St. Louis, Mo. Certain medicinal preparation. No. 152,081; Feb. 14.
- Warner, William R., & Co. Inc., Wilmington, Del.; New York, N. Y., and St. Louis, Mo. Medicine in tablet form. No. 155,558; May 30.
- Warren Brothers Company, Boston, Mass. Pavements and paving materials containing bituminous matter. Nos. 152,539-40; Feb. 28.
- Warren Brothers Company, Boston, Mass. Pavements and paving material containing bituminous matter. No. 160,322; Oct. 17.
- Warren, E. E., Corporation, New York, N. Y. Motion pictures. No. 154,414; Apr. 11.
- Warren Featherbone Company, The, Three Oaks, Mich. Certain named notions. No. 154,851; May 9.
- Warren Featherbone Company, The, Three Oaks, Mich. Dressmakers' and milliners' wire and floral wire. No. 161,031; Oct. 31.
- Warren Laboratories. (See Enell, William H.)
- Warren Manufacturing Company, The, New York, N. Y. Glassine paper. No. 159,579; Sept. 26.
- Warren, S. D., Company, Boston, Mass. Printing paper. No. 151,059; Jan. 10.
- Warren, S. D., Company, Boston, Mass. Printing paper. No. 155,114; May 16.
- Warren, W., Thread Wks., Westfield, Mass. Spool cotton. Nos. 162,655-60; Dec. 19.
- Warrenton Clam Co., Warrenton, Oreg. Canned clams, fish, and berries. No. 156,561; June 27.
- Warschauer, Isidor, New York, N. Y. Ladies' hand bags. No. 159,148; Sept. 19.
- Warschauer & Roth, New York, N. Y. Ladies' hand bags. No. 150,641; Jan. 3.
- Warshaw, Philip H., New York, N. Y. Hair tonic. No. 160,997; Oct. 31.

Alphabetical list of registrants of trade-marks—Continued.

- Warwick Knitting Mills, Inc., New York and Brooklyn, N. Y. Knitted fabrics of silk and wool in the piece and knitted fabrics of wool in the piece. No. 162,936; Dec. 26.
- Washoe, Olaf, New York, N. Y. Cod-liver oil. No. 153,900; Mar. 28.
- Washburn-Crosby Company, Minneapolis, Minn. Wheat flour. No. 162,176; Dec. 5.
- Washburn Crosby Company, Minneapolis, Minn. Wheat flour. No. 162,937; Dec. 26.
- Washburn & Granger, Inc., New York, N. Y. Hoists. No. 160,324; Oct. 17.
- Washburn & Moen Company, Worcester, Mass., assignor to The American Steel & Wire Company of New Jersey. Barbed wire. No. 20,716; renewed Feb. 16, 1922.
- Washer, Sam, Memphis, Tenn. Nonalcoholic, maltless beverage. No. 153,629; Mar. 21.
- Washington, G., Coffee Refining Co., New York, N. Y. Prepared coffee. No. 152,082; Feb. 14.
- Washington Laboratories, Inc., New York, N. Y. Disinfectants. No. 161,337; Nov. 7.
- Washington, Sarah S., Atlantic City, N. J. Pomade for hair and scalp and a hair-straightening preparation. No. 154,392; Apr. 11.
- Washington Woolen Mills, Fredericksburg, Va. Trousers. No. 154,458; Apr. 11.
- Washington Woolen Mills, Fredericksburg, Va. Trousers. No. 154,730; Apr. 18.
- Wason Bros., Seattle, Wash. Coffee. No. 161,993; Nov. 28.
- Wasserman & Goldsmith, New York, N. Y. Certain articles of clothing. No. 160,325; Oct. 17.
- Waterbury Company, Jersey City, N. J., and New York, N. Y. Music wire. No. 155,591; May 30.
- Waterbury Company, Jersey City, N. J., and New York, N. Y. Fiber cable. No. 158,856; Sept. 12.
- Waterbury Metal Wares Co., The, Waterbury, Conn. Portable electric lamps. No. 158,563; Sept. 5.
- Waterloo Register Co., Waterloo, Iowa. Cast-iron smoke pipes. No. 151,060; Jan. 10.
- Waterman, August H., Rockford, Ill. Polish for automobiles, etc., and cleaner and polish for woodwork, etc. No. 161,994; Nov. 28.
- Waterman, J. S., & Co. Inc., New Orleans, La. Wheat flour. No. 159,580; Sept. 26.
- Waterman Manufacturing Company, Yarmouth, Me. Remedy for malaria. No. 156,461; June 20.
- Waters & Waters Mfg. Co., St. Louis, Mo. Typewriter ribbons, carbon paper, and certain inks. No. 156,824; July 11.
- Waters, William A., Company, Newark, N. J. Jewelry for personal wear. No. 156,776; July 11.
- Waterson, Berlin & Snyder Company, New York, N. Y. Sheet music and musical compositions. No. 153,559; Mar. 21.
- Watkins, R. L., Company, The, Cleveland, Ohio. Preparation for improving the appearance and facilitating the dressing of the hair. No. 160,998; Oct. 31.
- Watkins, Verna O., Atlanta, Ga. Educational game board. No. 152,541; Feb. 28.
- Watson, Ferris D., Waxahachie, Tex. Cotton seed. No. 156,462; June 20.
- Watson Paint and Glass Company, Pittsburgh, Pa. Paste paints. No. 153,348; Mar. 14.
- Watson, Seth W., Saginaw, Mich. Candies. No. 156,777; July 11.
- Watson Shoe Company, Lynn, Mass. Boots, shoes, and slippers. No. 154,731; Apr. 18.
- Watterson, Arthur M., Omaha, Nebr. Memorandum devices. No. 156,587; July 4.
- Watterson, John D., Kalida, Ohio. Preparation for ulcerated gums and infections of the mouth. No. 156,463; June 20.
- Watts, Stephen K., New York, N. Y. Cotton goods, linens, madras, and other cotton fabrics in the piece. No. 161,662; Nov. 14.
- Watts, Y. H., & Co. Inc., Trenton, N. J. Compound for treating cholera in fowls. No. 154,415; Apr. 11.
- Watts, Y. H., & Co. Inc., Trenton, N. J. Liquid compound for treating hog cholera. No. 154,416; Apr. 11.
- Wauchula Chemical Company, Wauchula, Fla. Hair tonics. No. 152,293; Feb. 21.
- Waugh & Co., New York, N. Y. Hair nets. No. 153,560; Mar. 21.
- Vaugh, James H., doing business as Waughrine Medicine Co., Washington, D. C. Liniment for use in treatment of rheumatism. No. 158,564; Sept. 5.
- Waughrine Medicine Co. (See Waugh, James H.)
- Wausau Abrasives Company, Wausau, Wis. Sandpaper. No. 153,049; Mar. 7.
- Waverley Oil Works Company, Pittsburgh, Pa. Lubricating-oils. No. 153,050; Mar. 7.
- Wawbeek Spring Water Co., The, Suffield, Conn. Certain soft drinks. No. 152,542; Feb. 28.
- Wax, Charles, Philadelphia, Pa. Dress shirts, negligee, work, and night shirts, pyjamas, and underwear. No. 155,863; June 6.
- Waxtwell Paper Company, Grand Rapids, Mich. Wrapping paper. No. 158,140; Aug. 22.
- Wayagamack Pulp & Paper Co., Limited, Three Rivers, Quebec, Canada. Paper bags, boxes, and cups. No. 154,417; Apr. 11.
- Wayagamack Pulp & Paper Co. Limited, Three Rivers, Quebec, Canada. Wood, chemical, sulphate, sulphite, soda, and easy-bleaching pulps. No. 156,077; June 13.
- Way-Lite Reflector Company, The, Cleveland, Ohio. Reflectors for preventing glare for electric headlights. No. 158,565; Sept. 5.
- Wayne Knitting Mills, Fort Wayne, Ind. Hosiery. No. 157,295; July 25.
- Wayne Oil Tank & Pump Company, Fort Wayne, Ind. Certain pumps, stands, systems and outfits for handling or using certain fluids. No. 151,631; Feb. 7.
- Wear-Best Knitting Co., Philadelphia, Pa. Hosiery. No. 154,460; Apr. 11.
- Wear Well Brassiere Co., New York, N. Y. Brassières. No. 159,238; Sept. 19.
- Wear-Well Pants Company, Baltimore, Md. Men's and boys' trousers. No. 156,150; June 13.
- Wearwell Shoe Co., Inc., New York, N. Y. Shoes of leather and rubber combination. No. 161,385; Nov. 7.
- Wease, J. W. Company, Muncie, Ind. Metal polishes. No. 162,404; Dec. 12.
- Weaver Manufacturing Company, Springfield, Ill. Automobile towing dollies. No. 153,630; Mar. 21.
- Weaver Manufacturing Company, Springfield, Ill. Vehicle wheel aniskid chains and attachments. No. 156,562; June 27.
- Weaver, Walter T., Highland, N. Y. Fresh fruits put up in barrels, boxes, and crates. No. 158,566; Sept. 5.
- Webb, Arthur M., New York, N. Y. Women's and children's knitted underwear, hosiery, sweaters, etc. No. 157,240; July 25.
- Webb Manufacturing Company, Nashville, Tenn. Flavoring extracts for food. No. 156,940; July 18.
- Webb Publishing Company, St. Paul, Minn. Periodicals. No. 159,149; Sept. 19.
- Webb Publishing Company, St. Paul, Minn. Monthly periodicals. No. 159,150; Sept. 19.
- Weber Flour Mills Corporation, The, Salina, Kans. Wheat flour. No. 152,001; Feb. 14.
- Weber Flour Mills Corporation, The, Salina, Kans. Wheat flour. No. 152,294; Feb. 21.
- Weber, Joseph, Jr., Philadelphia, Pa., and Jackson, N. H. Certain medicinal preparations. No. 157,840; Aug. 15.
- Weber-Laemmle Tanning Company, Boston and Salem, Mass. Calfskin leather. No. 160,039; Oct. 10.
- Weber Lifelike Fly Co., The, Stevens Point, Wis. Silk-worm gut leaders, and leaders made of other material. No. 156,941; July 18.
- Weber Lifelike Fly Co., The, Stevens Point, Wis. Artificial fishing baits. No. 158,141; Aug. 22.
- Webers, Milwaukee, Wis. Candy. No. 157,794; Aug. 15.
- Webers, Milwaukee, Wis. Candy. No. 158,369; Aug. 29.
- Webster Brothers Manufacturing Company, Waucoma, Iowa. Poultry coops and boxes, egg cases, butter and packing boxes. No. 155,115; May 16.
- Wechsler Barber Silk Co. Inc., New York, N. Y. Silk and silk-mixture fabrics in the piece. No. 152,543; Feb. 28.
- Wechsler Barber Silk Co. Inc., New York, N. Y. Silk and silk-mixture fabrics in the piece. No. 161,663; Nov. 14.
- Wechsler, Frances, New York, N. Y. Shampoo and tonic for the hair. No. 150,642; Jan. 3.
- Weck, Edward & Son, Inc., New York, N. Y. Cutlery. No. 154,418; Apr. 11.
- Weeks, George, Washington, D. C. Magazine published monthly. No. 152,044; Feb. 14.
- Weese, R. T., Hearne, Tex. Preparation for the treatment of dandruff and the scalp. No. 150,643; Jan. 3.
- Wegman, Michael H., New York, N. Y. Suits, coats, overcoats, vests, and trousers. No. 160,326; Oct. 17.
- Weichsel Laboratories, Dallas, Tex. Chemical preparation for application on face and designed to remove wrinkles and increase the blood circulation. No. 158,317; Aug. 29.
- Weideman Company, The, Cleveland, Ohio. Cigars, cigarettes, smoking, chewing, and plug tobacco. No. 156,778; July 11.
- Weidler, Francis B., Los Angeles, Calif. Hair tonic. No. 151,632; Feb. 7.
- Weidmann, Ward & Co., Albany, N. Y. Coffee. No. 162,613; Dec. 19.
- Weil, H. S., Co., The, Cleveland, Ohio. Aprons and house dresses. No. 161,664; Nov. 14.
- Weil, Jos., & Sons, Inc., Chicago, Ill. Toilet paper. No. 161,851; Nov. 21.
- Weil-Ransom Co., Chicago, Ill. Wool dusters. No. 162,405; Dec. 12.
- Weimann, Jens, Odense, Denmark. Coats, trousers, skirts, hats, and caps, made from leather or leather products. No. 157,241; July 25.
- Weimann, Jens, Odense, Denmark. Certain articles of clothing and protective apparel. No. 157,242; July 25.
- Weimann, Jens, doing business as Joh. Weimann, Odense, Denmark. Certain articles of clothing. No. 162,177; Dec. 5.
- Weimann, Joh. (See Weimann, Jens.)
- Weinberg, Florence, New York, N. Y. Ladies' brassières. No. 154,732; Apr. 18.
- Weiner, Alphonse W., Inc., New York, N. Y. Certain named jewelry and precious-metal ware. No. 158,318; Aug. 29.
- Weiner Body Co., The. (See Weiner, Max L.)

Alphabetical list of registrants of trade-marks—Continued.

- Weiner, Max L., doing business as The Weiner Body Co., Newark, N. J. Motor-bus bodies, special automobile bodies. No. 162,661; Dec. 19.
- Weinfeld, Louis, doing business as The Consolidated Bottling Works, Norfolk, Va. Nonalcoholic maltless beverages sold as soft drinks. No. 157,442; Aug. 1.
- Weingarten Bros., Inc., New York, N. Y. Corsets. No. 156,151; June 13.
- Weis, H. and S., Sunbury, Pa. Oleomargarine. No. 153,349; Mar. 14.
- Weis, Henry, Waterloo, Iowa. Egg carriers and cases, egg-case fillers, and fruit carriers. No. 21,047; renewed Apr. 26, 1922.
- Weisenburger, Sig., & Co., New York, N. Y. Ladies' trimmed and tailored hats. No. 158,857; Sept. 12.
- Weiskittel, A., & Son, Baltimore, Md., assignor to A. Weiskittel & Son Co. Gas stoves, gas ranges, and gas heaters, and gasoline, oil, coal, and wood burning stoves. No. 22,380; renewed Jan. 24, 1923.
- Weiskittel, A., & Son, Baltimore, Md., assignor to A. Weiskittel & Son Co. Elevated boilers, brick-set and portable ranges, cookstoves, and heating stoves, etc. No. 22,379; renewed Jan. 24, 1923.
- Weiskittel, A., & Son Co. (See Weiskittel, A., & Son, assignor.)
- Weisman Bros. & Epstein, New York, N. Y. Women's clothing and underwear. No. 161,338; Nov. 7.
- Weiss, Cornelius, Inc., Brooklyn, N. Y. Boys' and men's hats. No. 151,003; Jan. 10.
- Weiss, Herman Co., The, Cincinnati, Ohio. Dresses for ladies and girls. No. 159,151; Sept. 19.
- Weiss, Paul F., doing business as Radio Improvement Co., not Inc., Chicago, Ill. Radio apparatus. No. 162,406; Dec. 12.
- Weissman, Joseph, Brooklyn, N. Y. Catemenial napkins. No. 154,176; Apr. 4.
- Welch, Francis M., San Francisco, Calif. Tonic, particularly a nerve and body tonic. No. 150,644; Jan. 3.
- Welch Grape Juice Company, The, Westfield, N. Y. Jam, jelly, fruit preserves, conserves. No. 156,779; July 11.
- Weld It Acetylene Company, Detroit, Mich. Welding and cutting apparatus. No. 157,441; Aug. 1.
- Weldon, Williams & Lick, Fort Smith, Ark. Theater tickets. No. 158,370; Aug. 29.
- Wellington, Sears & Company, Boston, Mass. Cotton drills. No. 155,592; May 30.
- Wellington, Sears & Company, Boston, Mass. Cotton duck or canvas. No. 156,464; June 20.
- Wellman Bronze Company, The, Cleveland, Ohio. Castings and nonferrous alloys. No. 153,901; Mar. 28.
- Wells-Osen Milling Co., De Pere, Wis. Mixed poultry feeds. No. 160,040; Oct. 10.
- Welmayde Muslin U'Wear Co., Yonkers, N. Y. Children's and misses' muslin underwear. No. 159,239; Sept. 19.
- Welshausen, William, Allenhurst, N. J. Shade for eliminating glare upon automobile windshields. No. 160,720; Oct. 24.
- Welte, M., & Sons, Inc., Poughkeepsie and New York, assignor to Welte-Mignon Corporation, New York, N. Y. Organs, automatic organs, orchestrions. No. 155,559; May 30.
- Welte-Mignon Corporation. (See Welte, M., & Sons, assignor.)
- Welvel Cigar Manufacturing Co., New York, N. Y. Cigars. No. 153,051; Mar. 7.
- Wenatchee District Co-Operative Association, Wenatchee, Wash. Fresh deciduous fruits. No. 153,902; Mar. 28.
- Wenatchee District Co-Operative Association, Wenatchee, Wash. Fresh apples. No. 162,148; Dec. 5.
- Wenatchee District Co-Operative Association, Wenatchee, Wash. Fresh deciduous fruits. No. 162,407; Dec. 12.
- Wenatchee Fruit & Warehouse Co., Inc., Peshastin, Wash. Fresh apples. No. 156,078; June 13.
- Wenatchee Skookum Growers, Wenatchee, Wash. Fresh deciduous fruits. No. 154,815; May 9.
- Wenatchee Valley Fruit Exchange, Inc., Cashmere, Wash. Fresh cherries, peaches, plums, apples, etc. No. 162,149; Dec. 5.
- Wenger, S. A., & Co. Inc., New York, N. Y. Thrown silk. No. 160,041; Oct. 10.
- Wenger, S. A., & Co. Inc., New York, N. Y. Raw silk. No. 160,042; Oct. 10.
- Wenglein's, H. J., Norica- & Herold-Werke Nurnberg-Schwabacher Nadelfabriken G. m. b. H., Nuremberg, Germany. Gramophone needles. No. 158,319; Aug. 29.
- Wenner, Charles B., New York, N. Y. Liquid preparation for cleaning furniture, automobiles, etc. No. 162,614; Dec. 19.
- Wentworth Bros. (See Wentworth, Thomas C.)
- Wentworth Clothing Company, Spokane, Wash. Certain articles of clothing. No. 157,604; Aug. 8.
- Wentworth Clothing Company, Spokane, Wash. Certain clothing. No. 160,721; Oct. 24.
- Wentworth, Thomas C., doing business as Wentworth Bros., Cornish, Me. Egg crates. No. 163,001; Dec. 26.
- Wenzel, H., Tent & Duck Company, St. Louis, Mo. Tar-paulin, wagon covers, and tents. No. 157,243; July 25.
- Wenzelmann, Gustave, Galesburg, Ill. Certain construction materials. No. 156,079; June 13.
- Weppner-Weil Company, Cleveland, Ohio. Coffee. No. 156,780; July 11.
- Werber, Samuel M., St. Louis, Mo. Wearing apparel. No. 155,864; June 6.
- Werle et Compagnie, Reims, France. Champagne wines. No. 151,004; Jan. 10.
- Werle et Compagnie, Rheims, France. Champagne wines. No. 151,633; Feb. 7.
- Werle et Compagnie, Reims, France. Champagne wines. Nos. 152,544-5; Feb. 28.
- Werne Manufacturing Company, Inc., Richmond, Va. Medicinal preparation for aiding in the treatment of respiratory, muscular, and surface ailments. No. 154,177; Apr. 4.
- Werner, Frank, San Francisco, Calif. Shoes, boots, slippers, pumps, oxfords. No. 157,605; Aug. 8.
- Wertheimer Bag Co., Birmingham, Ala. Burlap and cotton bags. No. 159,240; Sept. 19.
- Wertheimer, Leo J., San Francisco, Calif. Chemical heating appliances. No. 153,052; Mar. 7.
- Weser Bros. Inc., New York, N. Y. Pianos, player pianos, phonographs. No. 158,320; Aug. 29.
- Wessel, Herman, Cincinnati, Ohio. Box, cotton-top, hair, and cotton-felt mattresses, pillows. No. 152,002; Feb. 14.
- West Branch Knitting Company, Milton, Pa. Hosiery and knit underwear. No. 161,665; Nov. 14.
- West Disinfecting Company, New York, N. Y. Liquid disinfectants, antiseptics, and purifiers. No. 158,142; Aug. 22.
- West Disinfecting Company, New York, N. Y. Paper towels. No. 159,581; Sept. 26.
- West, Fred, St. Louis, Mo. Table salt. No. 161,339; Nov. 7.
- West Indies Fruit Importing Co., Chicago, Ill. Canned pineapples. No. 156,080; June 13.
- West-Laboratorium Gesellschaft mit beschränkter Haftung, Hamburg-Billbrook, Germany. Antiseptic preparation whose scientific name is jodsulfonortho-oxy-benzolpyridin. No. 161,666; Nov. 14.
- West, Mahlon J., McAllen, Tex. Women's hats. No. 151,280; Jan. 24.
- West Point Manufacturing Company, Langdale, Ala. Crash, towels, and toweling. No. 156,825; July 11.
- West Point Manufacturing Company, Langdale, Ala. Crash, towels, and toweling. No. 159,783; Oct. 3.
- West Virginia Pulp & Paper Co., New York, N. Y. Coated book and magazine paper. No. 152,330; Feb. 21.
- West Virginia Pulp & Paper Co., New York, N. Y. Printing and writing papers. No. 152,636; Feb. 28.
- Wester Bros., New York, N. Y. Certain cutlery and tools. No. 161,910; Nov. 21.
- Western Battery & Supply Company, The, Denver, Colo. Storage batteries. No. 151,634; Feb. 7.
- Western Bottle Manufacturing Company, Chicago, Ill. Hair nets. No. 152,295; Feb. 21.
- Western Bottle Manufacturing Company, Chicago, Ill. Toothbrushes. No. 154,178; Apr. 4.
- Western Bottle Manufacturing Company, Chicago, Ill. Tooth, hair, nail, cloth, hat, face brushes. No. 154,179; Apr. 4.
- Western Bottle Manufacturing Company, Chicago, Ill. Certain surgical and medical supplies. No. 159,241; Sept. 19.
- Western Bottle Manufacturing Company, Chicago, Ill. Powder puffs. No. 160,722; Oct. 24.
- Western Bottle Manufacturing Company, Chicago, Ill. Handkerchiefs. No. 162,939; Dec. 26.
- Western Canning Company, Oakland, Calif. Canned vegetables and fruits. No. 154,733; Apr. 18.
- Western Cartridge Company, East Alton and Springfield, Ill. Non-fouling bullets. Nos. 153,053-4; Mar. 7.
- Western Cartridge Company, East Alton and Springfield, Ill. Powder and ammunition containing the same. No. 158,858; Sept. 12.
- Western Cartridge Company, East Alton and Springfield, Ill. Shot shells. No. 159,784; Oct. 3.
- Western Chemical Company, Inc., Redfield, S. D., and Hutchinson, Minn. Antiseptic solution. No. 151,635; Feb. 7.
- Western Clock Co., Peru, Ill. Clocks, watches and component parts thereof. No. 158,567; Sept. 5.
- Western Cooperage Co., Portland, Oreg. Tight barrels and kegs and staves and heading therefor. No. 154,180; Apr. 4.
- Western Dental Mfg. Company, Limited, The, Bristol, England. Preparations for the teeth and for the mouth. No. 160,327; Oct. 17.
- Western Electric Company, Incorporated, New York, N. Y. Pike poles, cant hooks, and certain soldering, etc., tools. No. 153,903; Mar. 28.
- Western Electric Company, Incorporated, New York, N. Y. Certain articles of hardware and anchoring appliances for telephone and telegraph lines. No. 159,582; Sept. 26.
- Western Electric Company, Inc., New York, N. Y. Certain electrical apparatus, machines, and supplies. No. 160,999; Oct. 31.
- Western Electric Company Incorporated, New York, N. Y. Testing cabinets, test boards, gauges, registers, etc. No. 161,852; Nov. 21.
- Western Fruit Products Co., Dubuque, Iowa. Nonalcoholic, maltless fruit-piece beverage. No. 160,723; Oct. 24.
- Western Garment Mfg. Company, Salt Lake City, Utah. Certain articles of clothing. No. 160,328; Oct. 17.
- Western Grip & Trunk Co., Milwaukee, Wis. Grips, suitcases, trunks, etc. No. 158,859; Sept. 12.

Alphabetical list of registrants of trade-marks—Continued.

- Western Grocer Company, Marshalltown, Iowa. Certain named foods. No. 154,734; Apr. 18.
- Western Hair Goods Co., Chicago, Ill. Hair-dye remover. No. 151,636; Feb. 7.
- Western Industries Co., San Francisco, Calif. Ethyl alcohol. No. 151,281; Jan. 24.
- Western Industries Co., San Francisco, Calif. Denatured alcohol. No. 151,637; Feb. 7.
- Western Lumber & Pole Company, Spokane, Wash. Cedar telephone, telegraph, and transmission-line poles. No. 155,865; June 6.
- Western Machinery World, San Francisco, Calif. Monthly magazine. No. 162,408; Dec. 12.
- Western Reserve Farmers Cooperative Association, The, Unionville, Ohio. Fresh fruits. No. 154,735; Apr. 18.
- Western Shirt Company, The, New York, N. Y. Work shirts. No. 161,667; Nov. 14.
- Western Soap Company, Spokane, Wash. Liquid, laundry, and grit soap. No. 152,003; Feb. 14.
- Western Tablet and Stationery Company, St. Joseph, Mo. Writing tablets. No. 154,852; May 9.
- Western Tool & Forge Company, Duluth, Minn. Cold chisels and punches. No. 156,081; June 13.
- Western Wholesale Drug Co., Los Angeles, Calif. Non-intoxicating beverage and sirups for making same. No. 154,181; Apr. 4.
- Westfall-Lane Company, Turlock, Calif. Fresh deciduous fruits and fresh vegetables. No. 152,004; Feb. 14.
- Westfield Manufacturing Company, Westfield, Mass. Bicycles and parts thereof. No. 157,244; July 25.
- Westgate Sea Products Co., San Diego, Calif. Canned white tuna fish. No. 159,583; Sept. 26.
- Westheimer, Sidney F., Baltimore, Md. Toilet preparation. No. 157,606; Aug. 8.
- Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Certain measuring and scientific appliances. No. 152,083; Feb. 14.
- Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Power machinery. No. 153,951; Mar. 28.
- Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Battery chargers. No. 155,866; June 6.
- Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Radio telephone and telegraph transmitters and receivers, antenna outfits, etc. No. 156,578; June 27.
- Westinghouse Electric & Manufacturing Company, Pittsburgh, Pa. Certain radio mechanism. No. 156,781; July 11.
- Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Radio telephone and telegraph transmitters and receivers, etc. No. 158,568; Sept. 5.
- Westinghouse Electric & Mfg. Company, East Pittsburgh, Pa. Monthly magazines. No. 162,409; Dec. 12.
- Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Certain named radio apparatus. No. 162,410; Dec. 12.
- Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Weekly magazines. No. 162,411; Dec. 12.
- Westinghouse Lamp Company, Bloomfield, N. J. Potential detectors. No. 153,350; Mar. 14.
- Westinghouse Lamp Company, Bloomfield, N. J. Incandescent electric lamps. No. 156,579; June 27.
- Westinghouse Union Battery Co., Swissvale, Pa. Battery chargers and electrical rectifiers. No. 153,569; Sept. 5.
- Westinghouse Union Battery Co., Swissvale, Pa. Periodicals issued bimonthly. No. 159,152; Sept. 19.
- Westinghouse Union Battery Co., Swissvale, Pa. Secondary batteries and connectors thereof and battery charges. No. 161,001; Oct. 31.
- Westmoreland Candy Company, Richmond, Va. Candy. No. 156,942; July 18.
- Weston, E. J., Los Angeles and San Francisco, Calif. Malt sirup. No. 153,055; Mar. 7.
- Weyand, Charles E., & Co., Inc., New York, N. Y. Writing paper and envelopes. No. 157,607; Aug. 8.
- Weyman Brothers, Los Angeles, Calif. Hats for ladies. No. 154,736; Apr. 18.
- Weyman, H. A., & Sons, Inc., Philadelphia, Pa. Finished strings for stringed musical instruments. No. 156,782; July 11.
- Wheatley Pottery Company, The, Cincinnati, Ohio. Pottery ware. No. 155,560; May 30.
- Wheelan, Edgar, New York, N. Y. Series of cartoons. No. 153,904; Mar. 28.
- Wheelan, Robert B., New York, N. Y. Phonograph-record disks. No. 153,056; Mar. 7.
- Wheeler, Hayden W., & Co., New York, N. Y., assignors to Hayden W. Wheeler & Co. Inc. Watches and jewelry. No. 21,725; renewed Sept. 6, 1922.
- Wheeler Varnish Works, Chicago, Ill. Automobile paint. No. 153,057; Mar. 7.
- Wheeler Varnish Works, Chicago, Ill. House paint and varnish. No. 162,940; Dec. 26.
- Wheeler, W. B., Corporation, New York, N. Y. Matrix or dry mat used in stereotyping and electroplating. No. 152,005; Feb. 14.
- Wheeling Corrugating Company, Wheeling, W. Va. Certain receptacles and containers. No. 150,645; Jan. 3.
- Wheeling Corrugating Company, Wheeling, W. Va. Stove-pipe. No. 153,351; Mar. 14.
- Wheeling Corrugating Company, Wheeling and Manchester, W. Va. Dipping tanks and tanks on wagons and motor trucks. No. 150,698; Jan. 3.
- Wheeling Machine Products Company, Wheeling, W. Va. Screws and bolts. No. 152,546; Feb. 28.
- Whetrite Company. (See Hall, Edward E.)
- Whip-O-Top Company, The, New Britain, Conn. Tops. No. 157,608; Aug. 8.
- Whitcomb, Joseph, & Co., Springfield, Mass. Cigars. No. 153,058; Mar. 7.
- White Bluff Warehouse Co., White Bluffs, Wash. Fresh apples. No. 160,724; Oct. 24.
- White Bros. & Crum Co., Lewiston, Idaho. Fresh deciduous fruits. No. 159,584; Sept. 26.
- White Bros. & Crum Co., Lewiston, Idaho. Fresh deciduous fruits. No. 160,725; Oct. 24.
- White-Dove Laboratories, New York, N. Y. Olive-oil shampoo. No. 157,402; Aug. 1.
- White, Francis P., Boston, Mass. Nonalcoholic, non-cereal, maltless beverage and extracts and sirups for making same. No. 154,182; Apr. 4.
- White, George S., Los Angeles, Calif. Certain electro-medical apparatus. No. 153,352; Mar. 14.
- White, H. C., Company, North Bennington, Vt. Coasters for children. No. 153,059; Mar. 7.
- White, H. C., Company, North Bennington, Vt. Four-wheeled play wagons. No. 153,353; Mar. 14.
- White, H. C., Company, North Bennington, Vt. Coasters and play wagons. No. 153,354; Mar. 14.
- White, H. C., Company, North Bennington, Vt. Four-wheeled play wagons for children. No. 155,116; May 16.
- White, J. Loren, doing business as Safety-ette Razor Company, Los Angeles, Calif. Safety razors. No. 158,527; Sept. 5.
- White, J. Russell, Greenbridge, N. Y. Substances soluble in liquid hydrocarbon to modify its action as motor fuel. No. 155,561; May 30.
- White, L. Q., Shoe Co., Bridgewater, Mass. Rubber heels. No. 159,153; Sept. 19.
- White-Lininger Company, The, Kent, Iowa. Shoveling board for vehicles. No. 161,911; Nov. 21.
- White, M. J., Lees Summit, Mo. Metal solder and aluminum solder. No. 157,296; July 25.
- White Manufacturing Company, Newark, N. J. Water heaters for steam, vapor and hot-water boilers. No. 161,386; Nov. 7.
- White Mills of New Hampshire, Winchendon and Winchendon Springs, Mass. Cotton piece goods, and especially denim. No. 152,547; Feb. 28.
- White Mop Wringer Co., Fultonville, N. Y. Mop wringers. No. 155,117; May 16.
- White, Phil H., Brooklyn, N. Y. Certain material used for cleaning glass and to prevent fogging. No. 162,615; Dec. 19.
- White, R. H., Company, Boston, Mass. Ribbons in the bolt. No. 154,419; Apr. 11.
- White, Ray E., La Fargeville, N. Y. Certain ointment. No. 161,002; Oct. 31.
- White, Robert C., Inc., Philadelphia, Pa. Liquid preparation taken internally as an alternative, antiasthmatic, etc. No. 155,867; June 6.
- White Rock Mineral Springs Company, Waukesha, Wis. Natural spring water. No. 152,637; Feb. 28.
- White Rock Mineral Springs Company, Waukesha, Wis. Ginger ale. No. 152,638; Feb. 28.
- White Rock Mineral Springs Company, Waukesha, Wis. Mineral water and beverages made of water. No. 152,639; Feb. 28.
- White Rock Mineral Springs Company, Waukesha, Wis. Sarsaparilla. No. 152,640; Feb. 28.
- White Rock Mineral Springs Company, Waukesha, Wis. Mineral water and beverages made of water. No. 155,912; June 6.
- White, S. S., Dental Manufacturing Company, The, Philadelphia, Pa. Dental files and saws. No. 155,118; May 16.
- White, S. S., Dental Manufacturing Company, Philadelphia, Pa. Dental appliances. No. 161,387; Nov. 7.
- White-Stokes Company, Inc., Chicago, Ill. Bonbon coating. No. 156,082; June 13.
- White Tar Company, The, New York, N. Y. Dyes. No. 152,296; Feb. 21.
- White Tar Company, The, New York, N. Y. Candles. No. 159,242; Sept. 19.
- White Tar Company, The, New York, N. Y. Mothproof garment bags. No. 162,412; Dec. 12.
- White Top Distributing Co. (See Rouss Syrup Manufacturing Corp.)
- White-Washburne Company, Inc., Hinsdale, N. H. Toilet paper. No. 153,631; Mar. 21.
- White-Washburne Company, Hinsdale, N. H. Paper towels. No. 153,632; Mar. 21.
- White-Washburne Company, Inc., Hinsdale, N. H. Toilet paper. No. 154,853; May 9.
- White-Washburne Company, Inc., Hinsdale, N. H. Toilet paper. No. 155,119-21; May 16.
- White-Washburne Company, Inc., Hinsdale, N. H. Toilet paper. No. 155,122; May 16.

- White-Washburne Company Inc., Hinsdale, N. H. Toilet paper. Nos. 156,465-7; June 20.
- White-Washburne Company, Inc., Hinsdale, N. H. Toilet paper. No. 156,783; July 11.
- White-Washburne Company Inc., Hinsdale, N. H. Toilet paper. Nos. 161,003-5; Oct. 31.
- White-Washburne Company, Inc., Hinsdale, N. H. Toilet paper. Nos. 161,853-5; Nov. 21.
- White, Willard, doing business as Key Kuo Company, Boise, Idaho. Ready-mixed paints. No. 162,414; Dec. 12.
- White, William L., Philadelphia. Adhesive substance of a mucilaginous nature. Nos. 161,668-9; Nov. 14.
- White & Wyckoff Manufacturing Company, Holyoke, Mass. Writing-paper tablets, papereries, typewriter tablets, etc. No. 159,586; Sept. 26.
- Whitehead Hosiery Mills, Inc., Burlington, N. C. Hosiery. No. 154,737; Apr. 18.
- Whitehouse & Hardy, Inc., New York, N. Y. Shoes of leather, leather and fabrics, and leather and rubber. No. 163,002; Dec. 26.
- Whitfield, Madam D. W. (See Whitfield, Mary L.)
- Whitfield, Mary L., trading as Madam D. W. Whitfield Americus, Ga. Preparation for the scalp used as a tonic and for promoting the growth of hair. No. 158,143; Aug. 22.
- Whiting & Davis Company, Plainville, Mass. Mesh bags. No. 155,562; May 30.
- Whiting & Davis Company, Plainville, Mass. Metal mesh bags. No. 159,154; Sept. 19.
- Whiting & Davis Company, Plainville, Mass. Mesh bags comprised wholly or in part of precious metal. No. 162,413; Dec. 12.
- Whiting, John L.-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. Nos. 160,044-73; Oct. 10.
- Whiting, John L.-J. J. Adams Company, assignors to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. Nos. 160,329-32; Oct. 17.
- Whiting Paper Company, Holyoke, Mass. Writing paper and mailing envelopes. No. 151,005; Jan. 10.
- Whiting Paper Company, Holyoke, Mass. Writing paper and mailing envelopes. No. 153,905; Mar. 28.
- Whiting Paper Company, Holyoke, Mass. Writing paper and mailing envelopes. No. 153,952; Mar. 28.
- Whiting Paper Company, Holyoke, Mass. Writing papers and mailing envelopes. No. 155,123; May 16.
- Whiting Paper Company, Holyoke, Mass. Writing paper and mailing envelopes. No. 155,124; May 16.
- Whiting Paper Company, Holyoke, Mass. Writing papers and mailing envelopes. No. 157,245; July 25.
- Whiting-Plover Paper Co., Stevens Point, Wis. Bond papers. No. 161,856; Nov. 21.
- Whitlock Cordage Co., New York, N. Y. Manila rope. No. 153,561; Mar. 21.
- Whitlock Cordage Co., New York, N. Y. Sisal rope. No. 153,562; Mar. 21.
- Whitlock, Philip, Richmond, Va., assignor to P. Lorillard Company. Cerooots, cigars, cigarettes. No. 15,624; renewed June 19, 1918.
- Whitman, Clarence, & Son, Inc., Katonah and New York, N. Y. Cotton sheets and pillow-cases. No. 153,060; Mar. 7.
- Whitman, Clarence, & Son, Inc., Katonah and New York, N. Y. Cotton sheets and pillowcases. No. 154,420; Apr. 11.
- Whitman, Clarence, & Son, Inc., Katonah and New York, N. Y. White and colored silk and cotton piece goods. No. 159,155; Sept. 19.
- Whitman, Ralph M., New Bedford, Mass. Garters. No. 158,860; Sept. 12.
- Whitman Shoe Polish Mfg. Co., Whitman, Mass. Shoe polish. No. 160,043; Oct. 10.
- Whitman, Stephen F., & Son, Inc., Philadelphia, Pa. Candy. No. 155,868; June 6.
- Whitmore Manufacturing Company, The, Cleveland, Ohio. Lubricants. No. 152,644; Feb. 28.
- Whitmore, William H., Cleveland, Ohio. Preparation for cleaning, preserving, etc., varnished surfaces. No. 154,183; Apr. 4.
- Whitney, George E., Bridgeport, Conn. Bottle-capping machine. No. 155,125; May 16.
- Whitney Poultry Farm, Inc., Marlboro, N. Y. Eggs, live and dressed poultry. No. 159,649; Sept. 26.
- Whitrow, Floyd G., Grand Rapids, Mich. Certain automobile parts and accessories. No. 153,075; Mar. 7.
- Whittaker, Arthur, Manchester, England. Nonalcoholic extracts, essences, and prepared sirups used in drinks. No. 151,006; Jan. 10.
- Whittaker, John, & Company, Detroit, Mich. Door bolts. No. 154,421; Apr. 11.
- Whittemore Brothers Corporation, Cambridge, Mass. Dressing for shoes and other leather articles. No. 152,006; Feb. 14.
- Whittenton Manufacturing Company, Taunton, Mass. Cotton piece goods. No. 156,468; June 20.
- Whittle, D. L., Music Company, Dallas, Tex. Certain musical instruments and supplies. No. 156,784; July 11.
- Wholesale Distributors Co., The, Chicago, Ill. Canned fruits, vegetables, and fish, tomato catchup, fruit preserves. No. 157,795; Aug. 15.
- Why-Sol Battery Solution Company, Cincinnati, Ohio. Solution for all makes of lead-plate batteries. No. 152,007; Feb. 14.
- Whyt E Naml Specialty Co., Inc., Brooklyn, N. Y. Certain bathroom fixtures and enameled ware. No. 159,586; Sept. 26.
- Wiard Plow Company, Batavia, N. Y. Plows, cultivators, rollers, and harrows. No. 22,417; renewed Jan. 31, 1923.
- Wichert & Gardiner, Brooklyn, N. Y. Shoes, slippers, boots, etc. No. 157,246; July 25.
- Wichmann, Henry, Brooklyn, N. Y. Plugs for repairing metal bodies, plates, boilers, tanks, etc. No. 160,738; Oct. 24.
- Wickcraft, The, Pasadena, Calif. Certain furniture made of reed, rattan, and fiber. No. 162,616; Dec. 19.
- Wickwire Spencer Steel Corporation, Worcester, Mass. Bag and twine holders, milk-jar carriers, pie racks, and waste-paper baskets. No. 150,646; Jan. 3.
- Wickwire Spencer Steel Corporation, Worcester, Mass. Combination packages of wire culinary and kitchen utensils. No. 151,658; Feb. 7.
- Wickwire Spencer Steel Corporation, Worcester, Mass. Certain wire cloth, wire netting, wire fabric, etc. No. 152,548; Feb. 28.
- Wickwire Spencer Steel Corporation, Worcester, Mass. Metal kitchen and toilet goods and hardware. No. 161,857; Nov. 21.
- Wickwire Spencer Steel Corporation, Worcester, Mass. Barbed wire, cashier cages, and stock-room inclosures and clips for wire rope, clamps, etc. No. 162,941; Dec. 26.
- Wicomico Farmers Association, Inc., Salisbury, Md. Fresh fruit, vegetables, and berries. No. 152,549; Feb. 28.
- Widney Company, The, Chicago, Ill. Piano trapwork, wire, and pedals. No. 156,785; July 11.
- Widoe, Walter W., Omaha, Nebr. Smokers' pipes. No. 158,144; Aug. 22.
- Wichert, Geo. A., Co. Inc., New York, N. Y. Gold alloys for dental castings. No. 153,061; Mar. 7.
- Wichman Pattern Company, The, Cincinnati, Ohio. Shoe patterns. No. 151,639; Feb. 7.
- Wigan Bros. Inc., New York, N. Y. Cake. No. 153,563; Mar. 21.
- Wielich, Albert, New York, N. Y. Malt extracts. No. 151,282; Jan. 24.
- Wielich, Albert, doing business as Premier Malt Sales Corp., New York, N. Y. Malt extracts. No. 158,145; Aug. 22.
- Wielich, Ludwig, Mountain Lakes, N. J. Thoroughbred dogs. No. 152,084; Feb. 14.
- Wieman, Herman A., Dallas, Tex. Traveling merchandise vans. No. 160,074; Oct. 10.
- Wiener, William E., Inc., New York, N. Y. Silk goods. No. 156,469; June 20.
- Wiggins, Clara, Tampa, Fla. Hair grower. No. 152,297; Feb. 21.
- Wightman & Hough Co., Providence, R. I. Cigarette cases. No. 155,126; May 16.
- Wightman & Hough Company, Providence, R. I. Belt, shoe, and clothing buckles made of precious metal or imitation precious metal. No. 156,786; July 11.
- Wigwam Retail Stores Company, The, Columbia, S. C. Cigars, cigarettes, cerooots, snuff, and smoking tobacco. No. 157,609; Aug. 8.
- Wilbert Products Co., The, New York, N. Y. Ammonia and javelle water. No. 156,470; June 20.
- Wilcox, M. I., Company, The, Toledo, Ohio. Paintbrushes. No. 155,563; May 30.
- Wilcox, M. I., Company, The, Toledo, Ohio. Dry, ready-mixed, and paste paints and varnishes and putty. No. 158,861; Sept. 12.
- Wilcox, M. I., Company, The, Toledo, Ohio. Prepared roofing. No. 159,785; Oct. 3.
- Wilcox, M. I., Company, The, Toledo, Ohio. Rubber, fabric, and leather belting. No. 160,075; Oct. 10.
- Wilcox, M. I., Company, The, Toledo, Ohio. Rubber fabric and leather belting. No. 160,739; Oct. 24.
- Wilcox, M. I., Company, The, Toledo, Ohio. Dry, paste, and ready-mixed paints and putty. No. 161,670; Nov. 14.
- Wilcox Grocery Company, The, Mount Carmel, Ill. Cigars. No. 151,283; Jan. 24.
- Wilcox, W. J., Lard and Refining Company, The, Guttenberg, N. J., and New York, N. Y., assignor to The N. K. Fairbank Company. Lard and its substitutes. Nos. 21,438-41; renewed July 12, 1922.
- Wilcox, W. J., Lard and Refining Company, The, Guttenberg, N. J., and New York, N. Y., assignor to The N. K. Fairbank Company. Lard and its substitutes. No. 21,603; renewed Aug. 9, 1922.
- Wilcox, W. J., Lard and Refining Company, The, Guttenberg, N. J., and New York, N. Y., assignor to The N. K. Fairbank Company. Lard and its substitutes. No. 21,675; renewed Aug. 23, 1922.
- Wilcox, W. J., Lard and Refining Company, The, Guttenberg, N. J., and New York, N. Y., assignor to The N. K. Fairbank Company. Lard and its substitutes. No. 21,980; renewed Nov. 15, 1922.
- Wilder & Company, Chicago, Ill. Taps for boots and shoes. No. 154,738; Apr. 18.
- Wilder & Company, Chicago, Ill. Sole leather. No. 162,938; Dec. 26.

Alphabetical list of registrants of trade-marks—Continued.

- Wilder, Harry H., San Diego, Calif. Medicine for the treatment of asthma, hay fever, etc. No. 151,640; Feb. 7.
- Wilder, Mae E., Rochester, N. Y. Liquid cosmetics. No. 156,085; June 13.
- Wilder, Mae E., Rochester, N. Y. Face cream. No. 161,340; Nov. 7.
- Wildes, Alice S., doing business as Alys, New York, N. Y. Perfumes. No. 160,076; Oct. 10.
- Wildstein, Morytz H., New York, N. Y. Rye bread. No. 159,587; Sept. 25.
- Wile, E. J., & Co., New York, N. Y. Coats and suits. No. 160,333; Oct. 17.
- Wile, Herman, & Co., Buffalo, N. Y. Men's and young men's clothing. No. 162,083; Dec. 5.
- Wiley-Bickford-Sweet Co., The, Worcester, Mass. Knitted fabrics in the piece. No. 158,146; Aug. 22.
- Wiley-Bickford-Sweet Co., The, Worcester, Mass. Knit goods in the piece. No. 161,671; Nov. 14.
- Wiley, John J., Dayton, Ohio. Indigestion and stomach medicine. No. 151,641; Feb. 7.
- Wilhelm, Henry, Company, Pittsburgh, Pa. Moss. No. 154,184; Apr. 4.
- Wilhelm, Herman, New York, N. Y. Felt slippers. No. 155,869; June 6.
- Wilk, Benjamin, New York, N. Y. Monthly publications. No. 150,647; Jan. 3.
- Wilkes & Seaman Co., Louisville, Ky. Baking powder. No. 151,642; Feb. 7.
- Wilkins, John H., Company, Washington, D. C. Coffee, tea, and catchup. No. 161,032; Oct. 31.
- Wilkins, John H. Company, doing business as John H. Wilkins, Washington, D. C. Coffee, tea, and catchup. No. 162,178; Dec. 5.
- Wilkins, John H. (See Wilkins, John H., Company.)
- Wilkins, Mary F., doing business as Med-O-Lark Groves, Minneapolis, Minn. Citrus fruits in their natural state. No. 159,588; Sept. 26.
- Wilkinson Bros. & Co. Inc., New York, N. Y. Cigarette paper and cigarette tubes made of paper. Nos. 153,062-3; Mar. 7.
- Will & Baumer Candle Co. Inc., Syracuse, N. Y. Candles. Nos. 153,064-9; Mar. 7.
- Will & Baumer Candle Co., Inc., Syracuse, N. Y. Candles. No. 154,461; Apr. 11.
- Will & Baumer Candle Co. Inc., Syracuse, N. Y. Incense. No. 161,341; Nov. 7.
- Will & Baumer Candle Co., Inc., Syracuse, N. Y. Candles. No. 161,995; Nov. 28.
- Will & Baumer Candle Co., Inc., Syracuse, N. Y. Candles. Nos. 162,617-23; Dec. 19.
- Will & Baumer Candle Co. Inc., Syracuse, N. Y. Candles. Nos. 162,942; Dec. 26.
- Will Corporation, The, Rochester, N. Y. Instruments used for the measurement of hydrogen ions. No. 151,007; Jan. 10.
- Will, William C., Buffalo, N. Y. Eggs. No. 150,648; Jan. 3.
- Willamette Iron and Steel Works, Portland, Oreg. Logging engines. No. 153,907; Mar. 28.
- Wm. Schluderberg-T. J. Kurdle Co., The, Baltimore, Md. Lards. No. 154,807; May 9.
- Wm. Schluderberg-T. J. Kurdle Co., The, Baltimore, Md. Creamery butter, lard, hams, sausages, etc. No. 156,921; July 18.
- William Prym Co. (See Solow, N., assignor.)
- Williams, A. G., Home Made Candy Co. Inc., New Orleans, La. Candies. No. 157,247; July 25.
- Williams, A. G., Homemade Candy Co., Inc., New Orleans, La. Candies. No. 158,864; Sept. 12.
- Williams Bros. Aircraft Corporation, San Francisco, Calif. Motor-vehicle accelerators. No. 152,645; Feb. 28.
- Williams, C. K., & Co., Easton, Pa. Dry colors and fillers. No. 158,862; Sept. 12.
- Williams, Columbus E., Concordia, Kans. Disinfectants and insecticides. No. 161,006; Oct. 31.
- Williams & Frederick Inc., New York, N. Y. Toilet preparations. No. 158,147; Aug. 22.
- Williams-Hayward Company, Chicago, Ill. Enamel and paint preparations. No. 158,865; Sept. 12.
- Williams-Hayward Company, Chicago, Ill. Paints and painters' materials. No. 161,388; Nov. 7.
- Williams, J. B., Company, Glastonbury, Conn. Shaving stick and shaving powder. No. 151,061; Jan. 10.
- Williams, J. B., Company, The, Glastonbury, Conn. Toilet water. No. 154,462; Apr. 11.
- Williams, J. H., & Co., Brooklyn, N. Y. Drop forgings, castings, stampings, steels. No. 151,644; Feb. 7.
- Williams, J. H., & Co., Brooklyn, N. Y. Wrenches, tool holders, lathe dogs, clamps. No. 152,551; Feb. 28.
- Williams-Koen-McManis Co., assignor to W-K-M Company, Houston, Tex. Well-drilling and milling tools. No. 151,008; Jan. 10.
- Williams, Lewis L., East Boston, Mass. Hair tonic. No. 151,643; Feb. 7.
- Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Grinding screens for feed mills. No. 156,086; June 13.
- Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Crushers and like machines. Nos. 159,589-90; Sept. 26.
- Williams, Percy B. T., Philadelphia, Pa. Toothbrushes. Nos. 151,284-5; Jan. 24.
- Williams, Percy B. T., Philadelphia, Pa. Manicure files. No. 161,389; Nov. 7.
- Williams, Sam'l F., Inc., New York, N. Y. Chewing gum. No. 154,739; Apr. 18.
- Williams, William G., Elgin, Ill. Adjustable tables for use by doctors, etc., and parts of such tables. No. 153,070; Mar. 7.
- Williamson Candy Co., Chicago, Ill. Candy. No. 152,550; Feb. 28.
- Williamson Candy Co., Chicago, Ill. Candy. No. 154,740; Apr. 18.
- Williamson, Homer J., Indianapolis, Ind. Candy. No. 162,179; Dec. 5.
- Williamson, R., & Company, Chicago, Ill. Electric-lighting fixtures and furniture. No. 162,415; Dec. 12.
- Williamson Development Company, Williamsport, Pa. Composition packing. No. 156,471; June 20.
- Williamson Leather Goods Company, Williamsport, Pa. Leather goods. No. 151,062; Jan. 10.
- Williamson Leather Goods Company, Williamsport, Pa. Men's and women's belts. No. 160,814; Oct. 24.
- Willis, William S., doing business as The Bellevue Hosiery Sales Co., Shillington, Pa. Hosiery and sweaters. No. 161,733; Nov. 14.
- Wills, Carol S., Oakland, Calif. Shoes made wholly or in part of leather. No. 162,180; Dec. 5.
- Willson, Edith E., Washington, D. C. Miniature table, bed, and toilet articles for children's dolls. No. 157,403; Aug. 1.
- Willys Corporation, Toledo, Ohio. Electric lamps for vehicles and parts thereof. No. 161,033; Oct. 31.
- Willys-Overland Company, The, Toledo, Ohio. Internal-combustion engines. No. 156,083; June 13.
- Wilmort Manufacturing Company, Chicago, Ill. Humidor of small sizes. No. 153,071; Mar. 7.
- Wilson, Arthur C., Brevard, N. C. General tonic and blood preparation. No. 152,298; Feb. 21.
- Wilson, Arthur T., Chicago, Ill. Preparation for eyebrows and lashes. No. 152,008; Feb. 14.
- Wilson Bobannan, Inc., Brooklyn, N. Y. Locks. No. 157,254; July 25.
- Wilson Brothers, Chicago, Ill. Garters, suspenders, belts, for personal wear, and armbands. No. 150,649; Jan. 3.
- Wilson Brothers, Chicago, Ill. Certain articles of clothing. No. 150,650; Jan. 3.
- Wilson Brothers, Chicago, Ill. Garters, belts for personal wear, suspenders, and armbands. No. 150,651; Jan. 3.
- Wilson Brothers, Chicago, Ill. Garters. No. 154,741; Apr. 18.
- Wilson Brothers, Chicago, Ill. Handkerchiefs. No. 158,865; Sept. 12.
- Wilson Chemical Company, The. (See Wilson, George C.)
- Wilson & Co. Inc., New York, N. Y. Tomato catsup, fruit in sugar, cherries, oysters, etc. No. 159,786; Oct. 3.
- Wilson, Douglas S., Midville, Ga. Preparation for treatment of bots, colic, distemper, etc., for horses and mules. No. 167,610; Aug. 8.
- Wilson, F. L., Oil & Chemical Co. (See Wilson, Frank L.)
- Wilson, Frank L., doing business as F. L. Wilson Oil & Chemical Co., Barry, Ill. Lubricating oils. No. 159,591; Sept. 26.
- Wilson, George A., Jr., San Francisco, Calif. Certain toilet preparations. No. 156,472; June 20.
- Wilson, George C., trading as The Wilson Chemical Company, Tyrone, Pa. Face cream. No. 161,342; Nov. 7.
- Wilson, Harrison D., Chicago, Ill. Window frames. No. 159,787; Oct. 3.
- Wilson-Imperial Company, Newark, N. J. Preparation for removing paint or varnishes from surfaces coated with paint, varnish, or enamel. No. 153,953; Mar. 28.
- Wilson-Imperial Company, Newark, N. J. Washing compound. No. 155,564; May 30.
- Wilson, J. G., Corporation, Norfolk, Va. Electric-light fixtures. No. 153,954; Mar. 28.
- Wilson, J. J. & W., Limited, Kendal, England. Clothing for men, women, and boys, hats, caps, and flannel shirts. No. 21,099; renewed May 10, 1922.
- Wilson, J. J. & W., Limited, Kendal, England. Piece goods, rugs, horse clothing, wools, worsteds, yarns, and threads. No. 21,100; renewed May 10, 1922.
- Wilson-Jones Loose Leaf Company, Chicago, Ill. Note and memorandum books. No. 153,072; Mar. 7.
- Wilson, Josephine H., Cleveland, Ohio. Liquid preparation for the hair. No. 154,422; Apr. 11.
- Wilson Pile Cure Co., Wilson, N. C. Medicinal compound for the treatment of piles, sore feet, and sores. No. 161,344; Nov. 7.
- Wilson Process, Inc., New York, N. Y. Boots and shoes made wholly or in part of leather, canvas, or textile materials. No. 158,866; Sept. 12.
- Wilson Process, Inc., New York, N. Y. Boots and shoes. No. 159,156; Sept. 19.
- Wilson, Ralph W., New York, N. Y. Caps and tops of receptacles. No. 153,565; Mar. 21.
- Wilson, Robert L., Tyler, Tex. Washing powder. No. 157,297; July 25.
- Wilson, Thos. E., & Co., Chicago, Ill. Baseballs. No. 152,552; Feb. 28.
- Wilson Utensil Company, Dayton, Ohio. Aluminum cooking utensils. No. 160,741; Oct. 24.
- Wilson, Viola B., Americus, Ga. Salve or ointment for the hair. No. 154,185; Apr. 4.
- Wilson, Warren D., Los Angeles, Calif. Lubricating, illuminating, and fuel oils. No. 161,672; Nov. 14.
- Wimolbacher & Rice, New York, N. Y. Leather and fabric gloves. No. 151,286; Jan. 24.

- Wimelbacher & Rice, New York, N. Y. Fabric gloves. No. 159,243; Sept. 19.
- Wimer, H. E., Blencoe, Iowa. Butter. No. 152,085; Feb. 14.
- Winberg Druggists' Supply Co. (See Winberg, W. Wm.)
- Winberg, W. Wm., trading as Foameg Co., Wilmette, Ill. Liquid shampoo. No. 161,343; Nov. 7.
- Winberg, W. Wm., doing business as The Winberg Druggists' Supply Co., Wilmette, Ill. Nasal douche. No. 161,673; Nov. 14.
- Winchester Repeating Arms Co., New Haven, Conn. Flash lights and electric batteries. No. 151,645; Feb. 7.
- Winchester Repeating Arms Co., New Haven, Conn. Butcher, cook, pocket, etc., knives, saws, pipe wrenches, etc. No. 152,553; Feb. 28.
- Winchester Repeating Arms Co., New Haven, Conn. Certain fishing tackle. No. 159,157; Sept. 19.
- Wincroft Stove Works, Middletown, Pa. Gas and coal stoves. No. 150,652; Jan. 3.
- Wincroft Stove Works, Middletown, Pa. Gas and coal stoves. No. 157,248; July 25.
- Wincroft Stove Works, Middletown Borough, Pa. Coal and gas stoves. No. 160,334; Oct. 17.
- Windell, Frank D., Philadelphia, Pa. Temperature-registering devices. No. 156,473; June 20.
- Winder Manufacturing Co., The, Winder, Ga. Overalls, coats, jumpers, and work shirts. No. 156,084; June 13.
- Windsor Broom Company, Hamburg, Pa. Brooms. No. 152,554; Feb. 28.
- Winer Mfg. Co., The, Hammond, Ind. Overalls, jackets, and work shirts. No. 155,361; May 23.
- Winfield Barnes Company, The, Philadelphia, Pa. Automobiles. No. 153,073; Mar. 7.
- Wing, Russell T., St. Cloud, Minn. Headlight lenses. No. 154,186; Apr. 4.
- Wing, Russell T., St. Cloud, Minn. Headlight lenses. No. 157,249; July 25.
- Wingen, Anton, jr., doing business as Anton Wingen, jr., Solingen, Germany. Table knives and forks, butchers', kitchen, and painters' knives, razors, scissors, etc. No. 159,788; Oct. 3.
- Wingert, Martha S., Whittier, Calif. Dolls. No. 160,304; Oct. 17.
- Winget Manufacturing Co., The, Minneapolis, Minn. Bloomers, children's coveralls, and sleeping garments. No. 158,867; Sept. 12.
- Wingo, Joel S., Spartanburg, S. C. Patches for inner tubes. No. 160,742; Oct. 24.
- Winkelman Brothers, Philadelphia, Pa. Hosiery. No. 154,742; Apr. 18.
- Winselmann, Gustav, Gesellschaft mit beschränkter Haftung, Altenburg, Germany. Sewing machines and parts thereof, sewing-machine tables, etc. No. 162,769; Dec. 26.
- Winship, Boit & Co., Wakefield, Mass., and New York, N. Y. Certain piece goods and velings. Nos. 152,299-300; Feb. 21.
- Winship, Boit & Co., Wakefield, Mass., and New York, N. Y. Certain articles of clothing. No. 156,087; June 13.
- Winsor & Newton, Limited, London, England. Artists' colors. No. 151,368; Jan. 31.
- Winterbottom Book Cloth Company Limited, The, Manchester, England, Tracing cloth. No. 157,611; Aug. 8.
- Winthrop Chemical Company, Inc., New York, N. Y. Antiseptic medicinal substance in powdered form. No. 150,653; Jan. 3.
- Winthrop Chemical Company, Inc., New York, N. Y. Ethyl esters of chaulmoogra oil. No. 155,565; May 30.
- Winthrop Chemical Company, Inc., New York, N. Y. Sedative and hypnoic. No. 155,871; June 6.
- Winthrop Chemical Company, Inc., New York, N. Y. Antiseptic and alterative. No. 158,148; Aug. 22.
- Winthrop Chemical Company Inc., New York, N. Y. Certain named medicinal preparations. No. 158,321; Aug. 29.
- Winthrop Fruit Co., Yakima, Wash. Fresh apples and pears. No. 162,416; Dec. 12.
- Winton Company, The, Cleveland, Ohio. Automobiles, motor trucks. No. 152,009; Feb. 14.
- Winter, Martin, New York, N. Y. Drawing instruments and appliances. No. 153,074; Mar. 7.
- Wirebonds Corporation, (now, by change of name, 4-One Box Machine Makers,) Portland, Me., and New York, N. Y. Boxes and packing cases. No. 153,200; Mar. 14.
- Wirth Chocolate Company, Boston, Mass. Candy. No. 154,816; May 9.
- Wisconsin Cheese Producers Federation, Plymouth, Wis. Cheese. No. 162,944; Dec. 26.
- Wisconsin Iron Store Inc., The, Rice Lake, Wis. Spark plugs. No. 151,646; Feb. 7.
- Wisconsin Macaroni Company, Chicago, Ill. Alimentary paste products. No. 160,815; Oct. 24.
- Wisconsin Parts Company, Oshkosh, Wis. Vehicle axles. No. 160,743; Oct. 24.
- Wisconsin Steel Company, Chicago, Ill. Coal. No. 155,872; June 6.
- Wise, Robert, Company, The, Cincinnati, Ohio. Shoes made of leather, and also combination leather and fabric. No. 151,287; Jan. 24.
- Wise, Robert Company, The, Cincinnati, Ohio. Shoes. No. 156,143; June 13.
- Wiss, J., & Sons Co., trading as R. Heinisch Sons Works, Newark, N. J. Shears, scissors, snips, clippers, razors, razor blades. No. 160,077; Oct. 10.
- Wiss, J., & Sons Co., Newark, N. J. Shears, scissors, snips, clippers, razors, razor blades. No. 160,744; Oct. 24.
- Wiswell, Albert G., Chester, Pa., and Wilmington, Del. Toothache liquid and wax ointment both antiseptic and anæsthetic. No. 156,497; June 20.
- Wiswell, Albert G., Wilmington, Del. Soap. No. 157,841; Aug. 15.
- Witcombe, McGeachin & Co., New York, N. Y. Printed cotton fabrics and silks, etc. No. 154,423; Apr. 11.
- Witcombe, McGeachin & Co., New York, N. Y. Cotton, cotton and silk, and cotton and artificial-silk fabrics in the piece, made-up draperies, etc. No. 160,745; Oct. 24.
- Witcombe, McGeachin & Co., New York, N. Y. Cotton, cotton and silk, and cotton and artificial-silk fabrics in the piece and made-up draperies, curtains, etc., of said fabrics. No. 162,945; Dec. 26.
- Witherow Steel Company, Pittsburgh, Pa. Rolled iron and steel blanks and shapes. Nos. 160,746-7; Oct. 24.
- Witherspoon, Thomas S., doing business as The Spoon Products, Denver, Colo. Carbon remover. No. 158,322; Aug. 29.
- Withington-Hunting, Inc., New York, N. Y. Motion-picture-projecting apparatus. No. 155,302; May 23.
- Witmark, M., & Sons, New York, N. Y. Sheet music. No. 162,417; Dec. 12.
- Witmer, D. L., & Bro. (See Edwardson, Cris A.)
- Witt, Martin A., Los Angeles, Calif. Fruit and nut bars. No. 157,796; Aug. 15.
- Witt-Gross Co. Incorporated, New York, N. Y. Certain named fabrics and ribbons in the piece. Nos. 154,743-4; Apr. 18.
- Witte, Alexis Cutlery Co., New York and Brooklyn, N. Y. Razors, scissors, and hair clippers. No. 158,326; Aug. 29.
- Witte, Henry, New York, N. Y. Goblets, tumblers, drinking vessels, cups, dishes, etc. No. 159,650; Sept. 26.
- Wittenberg, Armin H., Los Angeles, Calif. Silk lisle and cotton hosiery for men, women, children, and infants. No. 151,288; Jan. 24.
- Wix, J., and Sons. (See Wix, Julius.)
- Wix, Julius, doing business as J. Wix and Sons, London, England. Smoking and chewing tobacco, cigarettes, cigars, and snuff. No. 160,749; Oct. 24.
- Wooldike, Bernard H., St. Louis, Mo. Moving-picture screens. No. 152,646; Feb. 28.
- Woelz Bros., Appleton, Wis. Writing and ledger papers. No. 161,858; Nov. 21.
- Wohl, M. J., & Co., Inc., New York and Long Island City, N. Y. Electric-arc lamps. No. 153,355; Mar. 14.
- Wohl, Sou'h & Co., New York, N. Y. Cotton piece goods. No. 155,303; May 23.
- Wolbert, Everett D., San Francisco, Calif. Automobile-crank-case support. No. 150,655; Jan. 3.
- Wolf Doll Co. Inc., New York, N. Y. Dolls. No. 159,592; Sept. 26.
- Wolf, E. A. Paul, Co., New York, N. Y. Loose-leaf devices. No. 160,620; Oct. 24.
- Wolf, H., & Sons, Cincinnati, Ohio. Undershirts, hosiery, drawers, and union suits. No. 156,633; June 27.
- Wolf, J. & M., Inc., New York, N. Y. Knit underwear and sweaters. No. 161,345; Nov. 7.
- Wolf, Sadie, New York, N. Y. Ladies' trimmed and untrimmed hats. No. 154,463; Apr. 11.
- Wolfe, Guy F., Frederick, Md. Carbon remover. No. 150,656; Jan. 3.
- Wolfeboro Mills, Wolfeboro, N. H. Cotton and wool blankets, robes, and rugs. No. 158,868; Sept. 12.
- Wolff, Alexander, & Co., New York, N. Y. Men's and boys' suits. No. 161,346; Nov. 7.
- Wolff Manufacturing Co., Chicago, Ill. Water-closet bowls. No. 155,913; June 6.
- Wolfrath, R. Edwin, New York, N. Y. Writing ink. No. 155,304; May 23.
- Wolfram, Emil, Columbus, Ohio. Certain medicinal preparations. No. 152,301; Feb. 21.
- Wolkow, F., & Sons, Louisville, Ky. Caps for radiators. No. 153,044; Mar. 7.
- Woll, Peter, and Sons Mfg. Co., Philadelphia, Pa. Curled hair for mattresses, etc. No. 156,474; June 20.
- Wollensak Optical Company, Rochester, N. Y. Monthly periodical. No. 159,158; Sept. 19.
- Wollo Ignition Products Co., St. Louis, Mo. Gasoline-engine spark plugs. No. 155,873; June 6.
- Wolock & Bauer, Chicago, Ill. Shoes. No. 154,745; Apr. 18.
- Wolton, Chas., New York, N. Y. Hair nets. No. 156,588; July 4.
- Wolverine Brass Works, Grand Rapids, Mich. Tank balls. No. 152,647; Feb. 28.
- Wolverine Supply and Mfg. Company, Pittsburgh, Pa. Sand and marble operated mechanical toys. Nos. 160,751-3; Oct. 24.
- Woman's Institute of Domestic Arts & Sciences, Inc., Scranton, Pa. Periodical issued in the spring and fall of each year. No. 157,797; Aug. 15.
- Woman's Mutual Benefit Company, The, Joliet, Ill. Certain named medicinal preparations. No. 158,323; Aug. 29.

Alphabetical list of registrants of trade-marks—Continued.

- Woman's World Magazine Co. Inc., Chicago, Ill. Monthly magazine. No. 156,564; June 27.
- Wonder Builder Toy Co., The, Gallipolis, Ohio. Metal building elements used in the construction of toy vehicles and parts therefor. No. 153,077; Mar. 7.
- Wondernette Company, New York, N. Y. Hair nets. No. 158,869; Sept. 12.
- Wontshed Brush Co., Troy, N. Y. Shaving brushes. No. 159,593; Sept. 26.
- Wood, Carrie V., Oakland, Calif. Powder for cleaning white shoes. No. 162,418; Dec. 12.
- Wood, Carroll E., Roanoke, Va. Tonic diuretic for the kidneys and bladder. No. 158,149; Aug. 22.
- Woods-Evertz Stove Company, Springfield, Mo. Stoves and ranges. No. 151,413; Jan. 31.
- Wood, George L. & Son, Brooklyn, N. Y., assignor to Imperial Paint Company. Varnishes. No. 20,919; renewed Mar. 29, 1922.
- Wood, H. H., & Company, Laconia, N. H. Hosiery. No. 158,150; Aug. 22.
- Wood, Harry N., Boise, Idaho. Partially-dried and dried prunes. No. 154,817; May 9.
- Wood, J. R., & Sons, New York, N. Y. Certain articles of jewelry. No. 155,566; May 30.
- Wood, James W., Poughkeepsie, N. Y. Candy and chewing gum. No. 156,939; July 18.
- Wood, John, Columbus, Ohio. Preparation for indigestion and stomach trouble. No. 157,404; Aug. 1.
- Wood, John R., Irvington, N. J., assignor to New Process Multi-castings Company, Newark, N. J. Molds for shaping molten metal. No. 153,078; Mar. 7.
- Wood, John R., Irvington, assignor to New Process Multi-castings Company, Newark, N. J. Refrigerators. No. 153,908; Mar. 28.
- Wood, John R., Irvington, assignor to New Process Multi-castings Company, Newark, N. J. Certain heat-retaining material. No. 156,088; June 13.
- Wood & Selick, Inc., New York, N. Y. Beverages sold as soft drinks and sirups for making same. No. 156,475; June 20.
- Woodcock, Timothy S., et al., executors. (See Thompson, Joseph.)
- Woodman, F. T. Co., The, Cambridge, Mass. Wearing apparel for men, women, and children. No. 156,943; July 18.
- Woods, Charles G., Jr., Burbank, Calif. Mixture for destruction of rodents. No. 152,302; Feb. 21.
- Woodstock Manufacturing Co., Inc., Rochester, N. Y. Children's coaster cars. No. 159,594; Sept. 26.
- Woodstock Manufacturing Co. Inc., Rochester, N. Y. Children's rockers. No. 159,595; Sept. 26.
- Woodward, A. B., Medicine Company, Marlin, Tex. Blood and liver tonic. No. 152,010; Feb. 14.
- Woodward & Cochey, Inc., Lynn, Mass. Gimp braid for trimming automobile and furniture upholstery. No. 157,798; Aug. 15.
- Woolleather Corp., Salem, Mass. Dusting brooms, dusting brushes, and wool dusters. No. 158,151; Aug. 22.
- Woolen Clearing House, The. (See Surut, Louis.)
- Woolf, Jesse, & Co. Inc., New York, N. Y. Dresses. No. 159,159; Sept. 19.
- Woolf, Jesse, Co., New York, N. Y. Frocks. No. 161,347; Nov. 7.
- Woolley, Daniel P., New York, N. Y. Bread. No. 157,799; Aug. 15.
- Woolsey, C. A., Paint & Color Company, Jersey City, N. J. Certain paints, varnishes, and colors, and paint pigments. Nos. 151,289-90; Jan. 24.
- Woolsey, C. A., Paint & Color Company, Jersey City, N. J. Varnishes, paint-pigments and certain named paints and colors. No. 151,369; Jan. 31.
- Woolsey, C. A., Paint & Color Company, Jersey City, N. J. Dry colors and colors ground in oil, paint pigments, etc. No. 153,079; Mar. 7.
- Woolsey, C. A., Paint & Color Company, Jersey City, N. J. Ready-mixed roofing paint, waterproofing paint, etc. No. 155,128; May 16.
- Woolson, Clifford G., Newark, N. J., and New York, N. Y. Sectional burned-clay pipe covering for exposed piping of all kinds. No. 156,604; July 4.
- Woolson Spice Company, The, Toledo, Ohio. Coffee, tea, spices. No. 152,648; Feb. 28.
- Wooster Brush Company, The, Wooster, Ohio. Brushes. No. 157,405; Aug. 1.
- Wooster Brush Company, The, Wooster, Ohio. Brushes. Nos. 159,596-7; Sept. 26.
- Worcester Brush and Scraper Company, Worcester, Mass. Boiler-tube-cleaners. No. 153,080; Mar. 7.
- Worcester Brush and Scraper Co., Worcester, Mass. Wire brushes. No. 156,476; June 20.
- Worcester Electric Supply Co., Worcester, Mass. Bicycles. No. 160,754; Oct. 24.
- Worcester Pressed Aluminum Company, Worcester, Mass. Hot-water bottles, fountain syringes, and combination water bottles and fountain syringes. No. 161,674; Nov. 14.
- Worcester Salt Co., Silver Springs and New York, N. Y. Salt—i. e., sodium chloride. Nos. 151,647-8; Feb. 7.
- Worcester Salt Co., New York, N. Y. Salt—i. e., sodium chloride. No. 153,909; Mar. 28.
- Worcester Salt Co., New York and Silver Springs, N. Y., and Ecorse, Mich. Salt. No. 157,406; Aug. 1.
- Worden Grocer Company, Grand Rapids, Mich. Pepper, allspice, cinnamon, tumeric, ginger, cloves, sage, etc. No. 156,944; July 18.
- Work-Organizer Specialties Company, Detroit, Mich. Filing folders, data books, article sorting and distributing folders. No. 155,129; May 16.
- World Wonder Product Company, Youngstown, Ohio. Polish for automobiles, pianos, fine furniture, etc. No. 155,567; May 30.
- Wornova Mfg. Co., Inc., New York, N. Y. Children's rompers, jumpers, overalls, and smocks. No. 158,870; Sept. 12.
- Wortendyke Manufacturing Co., Richmond, Va. Paper bags. No. 150,657; Jan. 3.
- Wortendyke Mfg. Co., Richmond, Va. Toilet paper. No. 153,388; Mar. 14.
- Worth, Inc., New York, N. Y. Certain articles of clothing. No. 156,477; June 20.
- Worth, Inc., New York, N. Y. Frocks, dresses, suits, furs, underwear, gloves, etc. No. 158,871; Sept. 12.
- Worthington Pump and Machinery Corporation, New York, N. Y. Liquid, piston, disk, etc., meters, and disk counters. No. 153,081; Mar. 7.
- Worthington Pump and Machinery Corporation, New York, N. Y. Pumping and certain other machinery. No. 155,130; May 6.
- Worthington Pump and Machinery Corporation, New York, N. Y. Battery and electric lighting plants and switchboards. No. 155,874; June 6.
- Worthington Pump and Machinery Corporation, New York, N. Y. Liquid, piston, disk, turbine, and boiler-fed meters, disk counters. No. 156,788; July 11.
- Worthington Pump and Machinery Corporation, New York, N. Y. Liquid, pis on, weight, etc., meters, disk counters. No. 156,789; July 11.
- Worthington Pump and Machinery Corporation, New York, N. Y. Battery and electric lighting plants, switchboards. No. 156,790; July 11.
- Worthington Pump and Machinery Corporation, New York, N. Y. Pumping machinery, pumps, vacuum pumps, and air and gas compressors. No. 157,250; July 25.
- Worthington Pump and Machinery Corporation, New York, N. Y. Certain machinery. No. 161,859; Nov. 21.
- Worthington Pump and Machinery Corporation, New York, N. Y. Battery lighting plants, electric-lighting plants, switchboards. No. 162,419; Dec. 12.
- Worumbo Manufacturing Company, Bath, Me. Camel's hair cloth in the piece. No. 152,555; Feb. 28.
- Worumbo Manufacturing Company, Bath, Me. Woolen goods in the piece. No. 159,789; Oct. 3.
- Wovenright Knitting Company, The, Cleveland, Ohio. Hosiery. No. 156,152; June 13.
- Wright, Albertis E., Evanston, Ill. Salad dressing. No. 162,624; Dec. 19.
- Wright & Alexander Company, Rochester, N. Y. Metal inserts for anchoring piping and shafting, etc., to concrete construction. No. 160,755; Oct. 24.
- Wright, Barrett & Stilwell Company, St. Paul, Minn. Writing paper. Nos. 153,082-3; Mar. 7.
- Wright Bindley & Gell Limited, Sheffield and Birmingham, England. Umbrella ribs and stretchers of steel or iron. No. 160,756; Oct. 24.
- Wright, Charles G., Philadelphia, Pa. Repair patches for rubber goods. No. 153,356; Mar. 14.
- Wright, Commodore C., McLeansboro, Ill. Dressed poultry and eggs. No. 157,800; Aug. 15.
- Wright, Denver M., doing business as Wright Specialty Mfg. Co., St. Louis, Mo. Belts for men's and women's wear. No. 162,625; Dec. 19.
- Wright, George D., Corporation, Dover, Del., and New York, N. Y. Dyes. No. 158,324; Aug. 20.
- Wright, John, & Eagle Range Ltd., Birmingham, England. Gas-heated metallurgical furnaces. No. 153,357; Mar. 14.
- Wright, John, & Eagle Range Ltd., Birmingham, England. Radiants or refractory heating elements for gas fires. Nos. 153,358-9; Mar. 14.
- Wright Manufacturing Company, Minneapolis, Minn. Pistons used for truck, tractor, automobile, and stationary engines. No. 159,244; Sept. 19.
- Wright, S. P., Washington, D. C. Ginger ale. No. 153,566; Mar. 21.
- Wright Specialty Mfg. Co. (See Wright, Denver M.)
- Wright's Underwear Company, Incorporated, New York, N. Y. Knit underwear for women and children. No. 158,872; Sept. 12.
- Wrigley, Wm., Jr. Company, Chicago, Ill. Sugar-coated chewing-gum. Nos. 159,598-9; Sept. 26.
- Writing Paper Company, Holyoke, Mass. Writing paper and mailing envelopes. Nos. 152,641-3; Feb. 28.
- Wudart Company, The, Oshkosh, Wis. Art toys. No. 151,009; Jan. 10.
- Wuertz, A. W., Co., New York, N. Y. Grand, upright, player, and electrically - operated pianos. Nos. 153,360-1; Mar. 14.
- Wunder, Minnie, Los Angeles, Calif. Superfluous-hair remover. No. 151,649; Feb. 7.
- Wunder, O. L., Company, Danville, Ill. Preparation to clean and polish lenses (eyeglasses). No. 155,875; June 6.
- Wyandotte Portland Cement Company, Detroit, Mich. Portland cement. No. 154,187; Apr. 4.
- Wyatt Bros., Chicago, Ill. Cottonseed-oil stearin. No. 156,973; July 18.

Alphabetical list of registrants of trade-marks—Continued.

- Wyckoff, Seamans and Benedict, Ilion and New York, N. Y., assignors to Remington Typewriter Company. Typewriting machines. No. 21,819; renewed Oct. 4, 1922.
- Wyle-Heinsfurter Co., New York, N. Y. Silks, ribbons, velvets, and cotton goods, in the piece. No. 152,556; Feb. 28.
- Wyle, Jerome, doing business as Sanitary Cup & Specialty Co., Albany, N. Y. Toilet paper and paper towels. No. 161,860; Nov. 21.
- Wylie, Ruie C., Wichita, Kans. Flavoring for nonalcoholic, maltless beverages. No. 155,131; May 16.
- Wyman, Partridge & Co., Minneapolis, Minn. Knit underwear and sweaters, etc. No. 151,010; Jan. 10.
- Wynne, Oliver, Norfolk, Va. Lard substitute. No. 152,011; Feb. 14.
- Wynne, Oliver, Norfolk, Va. Lard substitute. No. 154,746; Apr. 18.
- Wyo-Col Chemical Company, Denver, Colo. Medicine for pyorrhea. No. 153,910; Mar. 28.
- Wyrick Spring Company. (See Hagan, Charles F.)
- X-L Belt Buckle Co., Cincinnati, Ohio. Belt buckles made of or plated with precious metal. No. 162,420; Dec. 12.
- Yale Products Co., Fort Worth, Tex. Pickles. No. 153,084; Mar. 7.
- Yale & Towne Mfg. Co., The, Stamford, Conn. Automotive trucks and trailers. Nos. 154,188-9; Apr. 4.
- Yale & Towne Mfg. Co., The, Stamford, Conn. Automotive trucks and trailers. No. 156,478; June 20.
- Yale University Press, New York, N. Y. Series of volumes of epochal history of the United States. Nos. 159,160; Sept. 19.
- Yangtze Corporation, New York, N. Y. Tea. No. 155,132; May 16.
- Yankee Polish Co., New York, N. Y. Boot, shoe, and leather polishes, dressings, and oils. No. 155,568; May 30.
- Yardley & Co., Limited, Stratford, London, England. Toilet soap. No. 162,421; Dec. 12.
- Yard-O-Meter Corporation, St. Louis, Mo. Computing machines. No. 156,791; July 11.
- Yeast Tablet Co., The, South Bend, Ind. Food tonic containing vitamins of yeast. No. 159,600; Sept. 26.
- Yeastole Company, The, Eureka Springs, Ark. Yeast. No. 151,650; Feb. 7.
- Yellow Cab Manufacturing Co., Chicago, Ill. Motor-driven passenger vehicles—namely, automobile taxicabs. No. 151,414; Jan. 31.
- Yellow Cab Manufacturing Co., Chicago, Ill. Passenger automobiles. No. 153,362; Mar. 14.
- Yellow Duck Publishing Company, New York, N. Y. Magazines issued from time to time. No. 153,568; Mar. 21.
- Yellow-Fluid Chemical Co., The, Charleston, S. C. Insect exterminator, disinfectant, and deodorizer. No. 152,303; Feb. 21.
- Yellow Jacket Manufacturing Company, Portland and Anderson, Ind. Explosive engines. No. 156,792; July 11.
- Yellow Jack-It Mfg. Co., Chicago, Ill. Lifting jacks and parts thereof. No. 155,305; May 23.
- Yellowstone Packing Company, Billings, Mont. Meats, scrapple, chile con carne, pig souse, mincemeat. No. 159,601; Sept. 26.
- Yorba Linda Citrus Association, The, Yorba Linda, Calif. Fresh citrus fruits. No. 162,626; Dec. 19.
- York Laboratories Company, York, Pa. Medical compound for the treatment of venereal diseases. No. 151,651; Feb. 7.
- York Mfg. Co., Saco, Me., and Boston, Mass. Cotton piece goods. No. 161,861; Nov. 21.
- York Milk Machinery Company, York, Pa. Bottle crates. No. 150,659; Jan. 3.
- York Milk Machinery Company, York, Pa. Bottle-washing machines. No. 153,087; Mar. 7.
- Yorkville Manufacturing Co. Inc., New York and Brooklyn, N. Y. Polishing wheels and disks. No. 153,363; Mar. 14.
- Youdelman, Alexander, New York, N. Y. Lace tippers. No. 155,914; June 6.
- Young & Griffin Coffee Co., Inc., New York, N. Y. Coffee. No. 152,012; Feb. 14.
- Young, J. S. & Company, Hanover, Pa. Tanning extracts. Nos. 150,660-1; Jan. 3.
- Young, Luther A., University City, Mo. Dental polishers. No. 153,088; Mar. 7.
- Young, Patrick, Company, Richmond, Va. Ham. No. 156,907; July 18.
- Young & Sons, Inc., Hoboken, N. J. Transits and levels. Nos. 156,479-80; June 20.
- Young, W. D., Company, Boston and South Boston, Mass. Sutures and ligatures of animal or vegetable origin. No. 152,086; Feb. 14.
- Youngstown Sheet & Tube Company, The, Youngstown, Ohio. Iron and steel pipe and pipe couplings. No. 151,652; Feb. 7.
- Youngstown Sheet and Tube Company, The, Youngstown, Ohio. Iron and steel tubes and certain oil-well tubular goods and fencing. No. 155,915; June 6.
- Youngstown Sheet and Tube Company, Youngstown, Ohio. Iron and steel sheets, sheet roofing, plates, bars, wire hooks, etc. No. 156,565; June 27.
- Youth-Ami Laboratories. (See Aboussleman, Joseph M.)
- Youth-Gland Chemical Laboratories, Ltd., Chicago, Ill. Certain medicinal preparation. No. 152,304; Feb. 21.
- Yund, Kennedy & Yund, Amsterdam, N. Y. Knitted coats and jackets. No. 156,089; June 13.
- Zales Bros., New York, N. Y. Mantles for incandescent gaseous-fuel burners. No. 160,336; Oct. 17.
- Zaloom Brothers, New York, N. Y. Pistachio nuts. No. 156,945; July 13.
- Zeeta Company, The, New York, N. Y. Powdered deodorant. No. 154,424; Apr. 11.
- Zem Chemical Company, The, Baltimore, Md. Medicated skin cream. No. 152,305; Feb. 21.
- Zerillo, Lorenzo, Healdsburg, Calif. Fresh deciduous and dried fruits and grape sirup for food purposes. No. 156,946; July 18.
- Ziegler, George, Co., Milwaukee, Wis. Candies. No. 152,013; Feb. 14.
- Ziegler, George, Co., Milwaukee, Wis. Candies. No. 162,946; Dec. 26.
- Ziegler, Gustav F., trading as The Climax Polish Company, St. Louis, Mo. Liquid cleanser and polish for pianos, automobiles, etc. No. 159,161; Sept. 19.
- Zimmerman, William, Cedar Rapids, Iowa. Shampoo for hair and scalp. No. 157,443; Aug. 1.
- Zincloros Chemical Company, Denver, Colo. Mouth wash. No. 158,325; Aug. 29.
- Zinger, William, Philadelphia, Pa. Prepared plaster in powdered form. No. 160,816; Oct. 24.
- Zingre, J. Frederick L., St. Louis, Mo. Medicinal tablet for prevention of attacks of epilepsy. No. 152,014; Feb. 14.
- Zinsser, William, & Company Incorporated, New York, N. Y. Varnish. Nos. 158,570-1; Sept. 5.
- Zinsser, William, & Company Incorporated, New York, N. Y. Varnish and stains. No. 158,873; Sept. 12.
- Zinsser, William, & Company, Incorporated, New York, N. Y. Oil paint. No. 159,602; Sept. 26.
- Zinsser, William, & Company, Inc., New York, N. Y. Orange-shellac gums. No. 160,337; Oct. 17.
- Zinsser, William, & Company, Incorporated, New York, N. Y. Certain paints and painters' materials. No. 161,675; Nov. 14.
- Zinsser, William, & Company, Inc., New York, N. Y. Glues, paste, and sealing wax. No. 161,996; Nov. 28.
- Zohman, Nathan, New York, N. Y. Malt extract. No. 153,364; Mar. 14.
- Zolla, Max A., Chicago, Ill. Watches. No. 158,572; Sept. 5.
- Zollinger & Schroth, Inc., New York, N. Y. Silk crêpes, satins, and silk goods in the piece. No. 153,911; Mar. 28.
- Zollinger and Schroth, Inc., New York, N. Y. Silk piece goods. No. 159,790; Oct. 3.
- Zoltowski, John, Milwaukee, Wis. Waterproofing composition for waterproofing leather, cloth, or wood. No. 152,015; Feb. 14.
- Zo-No Company, The, Cleveland, Ohio. Preparation for the extermination of vermin. No. 156,481; June 20.
- Zoodack Manufacturing Co. (See Harris, Meyer.)
- Zorn, Walter M., assignor to The Sip and A Bite Company, Cleveland, Ohio. Bake stuffs and prepared foods. No. 154,747; Apr. 18.
- Zorro Tobacco Co. Inc., The, New York, N. Y. Smoking-tobacco. No. 154,190; Apr. 4.
- Zorro Tobacco Co., Inc., The, New York, N. Y. Smoking tobacco. No. 155,133; May 16.
- Zündwaren - Aktiengesellschaft "Helios," Prague - Vinobradý, Czechoslovakia. Matches. No. 153,567; Mar. 21.
- Zuray, Charles, doing business as Fracello Remedy Co., Chicago, Ill. Certain medicinal preparations. No. 158,874; Sept. 12.
- Zwiebelson, Abraham, New York, N. Y. Brassières and corsets. No. 151,011; Jan. 10.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

- Abbate, Salvatore, doing business as Premier Sugar Cone and Wafer Company, Newport Beach, Calif. "Abbate's Pastry Wafer Chocolate Coated." (For Wafers and Chips of Pastry or Candy and Which are Coated with Chocolate or Other Similar Edible Substance.) No. 24,984; Sept. 5.
- Abelio, Dr. J. M., doing business under name of Ovotone Company, Denver, Colo. "Ovotone." (For Endocrine Gland Tablets.) No. 24,481; June 20.
- Aberdeen Creamery Company, Aberdeen, Miss. "Daffodil." (For Butter.) No. 24,770; Aug. 1.
- Adams & Sons Grocer Company, Chillicothe, Mo. "Diamond A." (For Pork and Beans.) No. 21,582; Oct. 24.
- Advance Automobile Accessories Corp., Chicago, Ill. "Advance Cork Feltbak." (For Cartons containing Transmission Linings.) No. 24,902; Aug. 29.
- Aguilo, Jose, New York, N. Y. "Ralph Dughie." (For Cigars.) No. 24,129; Feb. 28.
- Aivory Sox Co., New York, N. Y. "Aivory." (For Socks.) No. 24,393; May 30.
- Ajemian, Matthew A., West New York, N. J. "Ajem Corn Paste." (For a Proprietary Medicine for the Removal of Corns and the Like.) No. 24,711; July 18.
- Akins, Stephen A., Kansas City, Mo. "Dandy Handy." (For Automobile Antiskid Chains and Containers Therefor.) No. 24,903; Aug. 29.
- Al's Bake Shop. (See Menasha Printing and Carton Company, assignor.)
- Alaska Frozen Fruit Co., The, Miami, Fla. "Alaska Fruit." (For Frozen Fruit.) No. 25,242; Nov. 7.
- Albers Bros. Milling Co., Seattle, Wash. "Hygeno." (For a Whole-Wheat Flour.) No. 24,694; July 11.
- Albers Bros. Milling Co., Seattle, Wash. "Del Monte." (For Flour.) No. 24,820; Aug. 8.
- Albers Bros. Milling Co., Seattle, Wash. "Albers Peacock Brand." (For Buckwheat Flour.) No. 24,821; Aug. 8.
- Albers Bros. Milling Co., Seattle, Wash. "Albers." (For Flapjack Flour.) No. 24,822; Aug. 8.
- Albers Bros. Milling Co., Seattle, Wash. "Peacock." (For Rolled Oats.) No. 24,823; Aug. 8.
- Albers Bros. Milling Co., Seattle, Wash. "Albers Carnation." (For Wheat Flakes.) No. 24,824; Aug. 8.
- Albrecht, Fred W., Grocery Co., Akron, Ohio. "Peter Rabbit and His Animal Friends." (For Animal Cookies and Crackers.) No. 24,220; Apr. 25.
- Allen-Bradley Company, Milwaukee, Wis. "Bradleystat." (For Radio Appliances.) No. 24,771; Aug. 1.
- Allen, George H., doing business as Safety First Feeder Co., Clinton, N. Y. "Safety First Chick Feeder." (For Chick Feeders.) No. 25,259; Nov. 14.
- Allen, George H., Clinton, N. Y. "Pure Gold Sweet Corn." (For Sweet Corn.) No. 25,260; Nov. 14.
- Allied Drug and Chemical Corporation, New York, N. Y. "Oraseptine." (For a Fragrant Antiseptic Mouth Wash, Dentifrice, Gargle, and Douche.) No. 24,431; June 6.
- Allingham, E. F., Mfg. Co., Colorado Springs, Colo. "Bingo It—Hits the Spot." (For Puffed-Wheat Confections.) No. 25,441; Dec. 26.
- Altamore Bros., New York, N. Y. "Sigari Di Na Poli." (For Cigar Boxes.) No. 25,102; Oct. 10.
- American Ammone Company, New York, N. Y. "Fyr-Pruf." (For Packages containing Stove and Nickel Polish.) No. 24,985; Sept. 5.
- American Bakery Company, St. Louis, Mo. "Baby Label Bread." (For Loaves of Bread.) No. 25,261; Nov. 14.
- American Cone and Pretzel Company, doing business as Continental Packing Corporation, Philadelphia, Pa. "Pantry Brand." (For Canned Peaches.) No. 25,404; Dec. 19.
- American Cone and Pretzel Company, doing business as Continental Packing Corporation, Philadelphia, Pa. "Seville Brand." (For Canned Peppers.) No. 25,405; Dec. 19.
- American Drug Co., Jacksonville, Fla. "White Cross Chill & Fever Tonic." (For a Medicinal Preparation—to wit, a Tonic for Chills and Fever, Bilious Fever, Intermittent Fever, Dumb Ague, La Grippe, and All Malarial Diseases.) No. 25,053; Oct. 3.
- American Drug Co., Jacksonville, Fla. "White Cross Liver Medicine." (For a Medicinal Preparation for Constipation, Biliousness, Indigestion, Costiveness, and All Diseases of the Liver.) No. 25,406; Dec. 19.
- American "E" Products Company, Minneapolis, Minn. "American 'E' Products Company." (For Powdered Soups.) No. 24,712; July 18.
- American Fastener Co., The, Waterbury, Conn. "Wizard Snap Fastener." (For Snap Fasteners.) No. 23,882; Jan. 17.
- American Fastener Company, The, Waterbury, Conn. "Yale." (For Snap Fasteners.) No. 25,358; Nov. 28.
- American Fresh Fruit Company, New York, N. Y. "Saffie." (For Packages or Cartons containing Fruit.) No. 24,482; June 20.
- American Lead Pencil Company, New York, N. Y. "Venus Thin Leads." (For Boxes for Shipping Lead Pencils.) No. 23,883; Jan. 17.
- American Lead Pencil Company, New York, N. Y. "Venus Rubber Erasers." (For Boxes for Shipping Rubber Erasers.) No. 23,884; Jan. 17.
- American Lead Pencil Company, New York, N. Y. "Venus Rubber Bands." (For Boxes for Shipping Rubber Bands.) No. 24,030; Feb. 14.
- American Lead Pencil Company, New York, N. Y. "Pax Carbon Paper." (For Boxes for Shipping Carbon Paper.) No. 25,243; Nov. 7.
- American Malts & Hops Co., New Bedford, Mass. "American Liberty Brew Malt Extract." (For Cans and Jars containing Malt Extract.) No. 25,359; Nov. 28.
- American Oil Corporation, Jackson, Mich. "Certified Quality The Power Behind Your Motor." (For Lubricating Oil and Gasoline.) No. 25,262; Nov. 14.
- American Piano Company, Jersey City, N. J., and New York, N. Y. "Ampico." (For Pianos, Piano Players, Player Pianos.) No. 25,210; Oct. 31.
- American Piano Company, Jersey City, N. J., and New York, N. Y. "Ampico." (For Pianos, Piano Players, Player Pianos.) No. 25,244; Nov. 7.
- American Printing Company, Fall River, Mass. "Rainbow Prints." (For Cotton Piece Goods.) No. 23,885; Jan. 17.
- American Printing Company, Fall River, Mass. "Plaza Pongee." (For Cotton Piece Goods.) No. 23,980; Feb. 7.
- American Printing Company, Fall River, Mass. "Leonard Percale." (For Cotton Piece Goods.) No. 23,981; Feb. 7.
- American Printing Company, Fall River, Mass. "Delmar Percale." (For Cotton Piece Goods.) No. 23,982; Feb. 7.
- American Printing Company, Fall River, Mass. "Challie de Mousseline." (For Cotton Piece Goods.) No. 23,983; Feb. 7.
- American Printing Company, Fall River, Mass. "Hanlon Percale." (For Cotton Piece Goods.) No. 23,984; Feb. 7.
- American Printing Company, Fall River, Mass. "Rumson Cambric." (For Cotton Piece Goods.) No. 23,985; Feb. 7.
- American Printing Company, Fall River, Mass. "Gingham Effects." (For Cotton Piece Goods.) No. 23,986; Feb. 7.
- American Printing Company, Fall River, Mass. "Decatur Pongee." (For Cotton Piece Goods.) No. 23,987; Feb. 7.
- American Printing Company, Fall River, Mass. "Nyle Printed Pongee." (For Cotton Piece Goods.) No. 23,988; Feb. 7.
- American Printing Company, Fall River, Mass. "Bungalow Cretonne." (For Cotton Piece Goods.) No. 23,989; Feb. 7.
- American Printing Company, Fall River, Mass. "Majestic Cambric." (For Cotton Piece Goods.) No. 23,990; Feb. 7.
- American Printing Company, Fall River, Mass. "American Cambric." (For Cotton Piece Goods.) No. 23,991; Feb. 7.
- American Printing Company, Fall River, Mass. "Arizona Plain Pongee." (For Cotton Piece Goods.) No. 23,992; Feb. 7.
- American Printing Company, Fall River, Mass. "American Scout Percale." (For Cotton Piece Goods.) No. 23,993; Feb. 7.
- Anderson, John A., Chicago, Ill. "Ora-Solis." (For a Dental Wash and Astringent Valuable Aid in the Prevention of Pyorrhea Alveolaris, Receding and Bleeding Gums.) No. 23,994; Feb. 7.
- Anderson & Nelson, Brockton, Mass. "Select." (For Canned Vegetables—Namely, Tomatoes.) No. 24,612; July 4.
- Anderson Paper & Twine Company, Altoona, Pa. "Mity-Nice." (For Wrappers for Toilet-Paper Rolls.) No. 24,868; Aug. 15.
- Antelope Valley Fruit Growers Association, Palmdale, Calif. "Antelope." (For Pears.) No. 24,570; June 27.
- Anthony, Harry W., Strausstown, Pa. "Darn Proof Two Feet of Wear in Every Pair." (For Hosiery.) No. 25,330; Nov. 21.
- Apex Paper Manufacturing Company, Inc., New Orleans, La. "Hi Grade." (For Toilet Paper of the Crêpe Paper Variety.) No. 23,952; Jan. 31.
- Apex Paper Manufacturing Company, Inc., New Orleans, La. "Blue Seal." (For Toilet Paper of the Crêpe Paper Variety.) No. 23,953; Jan. 31.
- Ap-Pel-Line Medicine Company. (See Rohlfing, Louis C.)
- Ardzrooni, E. S., Fresno, Calif. "Lone Star." (For Fresh Grapes.) No. 23,951; Jan. 31.
- Arlé, Joseph, Two Rivers, Wis. "Arlé's Victory Polish." (For a Polish Which can be Used on Automobiles, Furniture, and Other Articles.) No. 24,613; July 4.
- Ashmun Company, The. (See Ashmun, Elizabeth.)
- Ashmun, Elizabeth, doing business as The Ashmun Company, Seattle, Wash. "Doctor Ashmun's Goiter Remover." (For Bottles, Boxes, or Containers for Goiter Remover.) No. 25,331; Nov. 21.

- Ashton, L. C., & Son, Ogden, Utah. "For Man and Beast." (For a Remedy for Skin and Germ Diseases.) No. 23,886; Jan. 17.
- Associated Fruit Co., Fresno, Calif. "California Community." (For Fresh Grapes.) No. 25,027; Sept. 12.
- Atlantic Canning Company, Rehoboth Beach, Del. "Bambino Brand." (For Tin Cans Containing Tomato Paste.) No. 24,986; Sept. 5.
- Augert, S. & J., Bros., Philadelphia, Pa., and Atlantic City, N. J. "Cafeer." (For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.) No. 24,330; May 9.
- Aunt Molly's Kitchen, Muskegon, Mich. "Aunt Molly's Home Made Candies." (For Boxes Containing Candy.) No. 24,844; Aug. 8.
- Automotive Products Corporation, Hazleton, Pa. "Super Quality." (For Piston Pins.) No. 24,772; Aug. 1.
- B. F. Bond Paper Co., The, Baltimore, Md. "Southern Silk Tissue." (For Toilet Paper.) No. 24,990; Sept. 5.
- B. F. Bond Paper Co., The, Baltimore, Md. "Ruxton Silk Tissue." (For Toilet Paper.) No. 24,991; Sept. 5.
- Babcock's Dairy Co. (See Menasha Printing and Carton Company, assignor.)
- Bachelor, Wm. H., Co., Inc., Worcester, Mass. "Sagamore." (For Cigars.) No. 25,103; Oct. 10.
- Bair, C. E., & Sons, Harrisburg, Pa. "Aristocrat." (For Boxes Containing Cigars.) No. 24,221; Apr. 25.
- Baker & Coe, White Salmon, Wash. "Mountain Brand." (For Fresh Apples.) No. 24,031; Feb. 14.
- Baker, Walter E., Boston, Mass. "Shield Brand Macaroni." (For Macaroni.) No. 24,222; Apr. 25.
- Bakken, S. H., Benson, Minn. "Best Yet." (For Bread.) No. 24,434; June 6.
- Baldwin, Henry P., Limited, Lahaina, Territory of Hawaii. "Native." (For Canned Pineapple.) No. 23,993; Feb. 7.
- Baldwin Tool Works, Parkersburg, W. Va. "Crucible Steel." (For Shovels, Spades, and Scoops.) No. 25,104; Oct. 10.
- Baldwin Tool Works, Parkersburg, W. Va. "Lady Burbank." (For Spades.) No. 25,105; Oct. 10.
- Baldwin Tool Works, Parkersburg, W. Va. "Baldwin's Gold Standard." (For Shovels, Spades, Scoops, Post Hole Diggers, and Wooden Handles.) No. 25,106; Oct. 10.
- Baldwin Tool Works, Parkersburg, W. Va. "High Carbon." (For Shovels, Spades, and Scoops.) No. 25,107; Oct. 10.
- Baldwin Tool Works, Parkersburg, W. Va. "Baldwin's Vanadium Steel." (For Shovels, Spades, and Scoops.) No. 25,108; Oct. 10.
- Baldwin Tool Works, Parkersburg, W. Va. "Baldwin's Monongah Featherweight." (For Shovels, Spades, Scoops, and Wooden Handles.) No. 25,109; Oct. 10.
- Baldwin Tool Works, Parkersburg, W. Va. "Baldwin's Dollar." (For Shovels, Spades, Scoops, Post-Hole Diggers, and Wooden Handles.) No. 25,110; Oct. 10.
- Baldwin Tool Works, Parkersburg, W. Va. "Luther Burbank." (For Spades.) No. 25,211; Oct. 31.
- Ballard and Ballard Co., Louisville, Ky. "Ballard Hominy Grits." (For Ground Corn, Otherwise Known as Hominy Grits.) No. 23,954; Jan. 31.
- Ballard and Ballard Co., Louisville, Ky. "Ballard White Corn Meal." (For Corn Meal.) No. 23,955; Jan. 31.
- Balme, Paul, doing business as B. Paul, New York, N. Y. "B. Paul's Henna." (For Hair Dye.) No. 24,904; Aug. 29.
- Banks, Llewellyn A., doing business as The Citrus Growers Cash Association, Los Angeles, Calif. "Glen Rosa." (For Oranges.) No. 24,432; June 6.
- Barber, F. P., and R. K. Kirby, Brattleboro, Vt. "Stratton's Liniments." (For Bottles Containing Liniment.) No. 24,743; July 25.
- Bardell Art Printing Co. (See Bardell, James C.)
- Bardell, James C., doing business as Bardell Art Printing Co., San Francisco, Calif. "Bardell Fototone Miniatures." (For Artions for Post-Cards, Photographs, Prints and Miniatures.) No. 25,360; Nov. 28.
- Bare Fruit Co. (See Bare, John V.)
- Bare, John V., doing business as the Bare Fruit Co., Lodi, Calif. "Bare." (For Fresh Grapes.) No. 24,483; June 20.
- Bare, John V., doing business as the Bare Fruit Co., Lodi, Calif. "Cub Brand." (For Fresh Grapes.) No. 24,484; June 20.
- Barker, Moore & Mein Medicine Company, Inc., The. "Barker's Special Poultry Remedy." (For a Regulator and Tonic for Poultry.) No. 24,223; Apr. 25.
- Barker, Moore & Mein Medicine Company, Inc., The. "Barker's Animal Tonic." (For a Tonic for Horses, Cattle, Hogs, and Sheep.) No. 24,224; Apr. 25.
- Barker, Moore & Mein Medicine Co., Inc., The, Philadelphia, Pa. "Barker's Roup Remedy." (For a Remedy for Roup in Poultry and Birds.) No. 24,394; May 30.
- Barker, Moore & Mein Medicine Co., Inc., The, Philadelphia, Pa. "Barker's Lice Powder." (For Lice Powder for Poultry, Cows, Horses, and Hogs.) No. 24,395; May 30.
- Barker, Moore & Mein Medicine Co., Inc., The, Philadelphia, Pa. "Barker's Gape Remedy." (For a Remedy for Gape in Poultry.) No. 24,435; June 6.
- Barnes, S. O., & Son, Gardena, Calif. "Barnes' Emulsionized Bran Phosphated." (For Packages Containing Poultry Remedies.) No. 25,407; Dec. 19.
- Barnet Leather Co. Inc., New York, N. Y. "Victoria Brown." (For Calf Leather.) No. 24,905; Aug. 29.
- Barron, Percy L., Los Angeles, Calif. "Baron's Sulphur." (For Bottles and Packages of Mineralized Water.) No. 24,906; Aug. 29.
- Barthel & Martin, Richmond Hill, N. Y. "Polarnut Pie." (For Confectionery.) No. 25,408; Dec. 19.
- Bassick Company, The, Bridgeport, Conn., Newark, N. J., and Meriden, Conn. "Bassick Casters." (For Packages Containing Casters.) No. 24,130; Feb. 28.
- Bassick Company, The, Bridgeport, Conn., Newark, N. J., and Meriden, Conn. "Bassick Casters." (For Packages Containing Casters.) No. 25,054; Oct. 3.
- Bauhofer, John, assignor to Mella Cigar Factory, Louisville, Ky. "Rio Grande." (For Cigars.) No. 25,409; Dec. 19.
- Bauhofer, John, assignor to Mella Cigar Factory, Louisville, Ky. "Flora." (For Cigars.) No. 25,410; Dec. 19.
- Bauhofer, John, assignor to Mella Cigar Factory, Louisville, Ky. "Mella." (For Cigars.) No. 25,411; Dec. 19.
- Bauhofer, John, assignor to Mella Cigar Factory, Louisville, Ky. "Cigars Ormond Vevey Courts." (For Cigars.) No. 25,412; Dec. 19.
- Baum, Max, New York, N. Y. "Stage Hosiery." (For Hosiery.) No. 24,773; Aug. 1.
- Beacon Trading Company, Seattle, Wash. "Beacon." (For Apples.) No. 24,485; June 20.
- Beardsley, Calvin L., Rock Island, Ill. "Queen Bess." (For Sirupy Extract.) No. 23,996; Feb. 7.
- Beautypel Cosmetic Co. (See Newlyn, Thomas J.)
- Beaver Paper Company, Chicago, Ill. "Morning Glory." (For Toilet Paper.) No. 25,212; Oct. 31.
- Beck, Anne D., Milton, Mass. "Knoll Gardens Products." (For Garden Products.) No. 24,987; Sept. 5.
- Becker, Fremont H., Harrington, Del. "Won their favor by their flavor." (For Cantaloupe Crates.) No. 25,055; Oct. 3.
- Beckwith Co., The, Reedley, Calif. "Beckwith." (For Fancy Kadota Figs.) No. 24,695; July 11.
- Beistle Company, The, Shippensburg, Pa. "Beistle's Hallow'en Hats." (For Packages Containing Hallow'en Hats.) No. 24,621; July 4.
- Beistle Company, The, Shippensburg, Pa. "Hallow'en Party Table Decorations." (For Packages Containing Table Decorations for a Hallow'en Party.) No. 24,622; July 4.
- Beistle Company, The, Shippensburg, Pa. "Beistle's Hallow'en Hats." (For Packages Containing Hallow'en Hats.) No. 24,623; July 4.
- Beistle Company, The, Shippensburg, Pa. "Beistle's Hallow'en Hat Masks." (For a Package of Hat Masks.) No. 24,624; July 4.
- Beistle Company, The, Shippensburg, Pa. "Beistle's—Christmas Decorations for the Home." (For a Package of Christmas Decorations.) No. 24,625; July 4.
- Benaderet, Samuel, San Francisco, Calif. "B. & P." (For Egyptian Cigarettes.) No. 24,486; June 20.
- Bender, Charles F., St. Louis, Mo. "Cleanbright Washing Tablets." (For Washing Tablets.) No. 24,292; May 2.
- Bennett Creamery Co., The, Ottawa, Kans. "Forest Park." (For Butter.) No. 24,396; May 30.
- Bennett, F. H., Biscuit Company, New York, N. Y. "Wheatworth Whole Wheat Graham Crackers." (For Crackers.) No. 24,713; July 18.
- Bennett, F. H., Biscuit Company, New York, N. Y. "Maltoid Milk-Bone Puppy Food." (For Dog Biscuits.) No. 24,714; July 18.
- Bennett, Louis J., Kansas City, Mo. "Aqua-ton." (For Containers for Mineral Water.) No. 24,825; Aug. 8.
- Benson Products Co., New Rochelle, N. Y. "Fire-Chief The Infallible Fire Extinguisher." (For a Jar of Fire-Extinguisher Liquid.) No. 24,626; July 4.
- Benton, Lawrence L., Pasadena, Calif. "Benton's Com-Aid." (For Composition of Matter for Use on the Hair.) No. 24,774; Aug. 1.
- Bernstein, Harry, Tampa, Fla. "Harry's Florida Pecan Roll." (For a Nut Confection.) No. 24,715; July 18.
- Bernstein, Hyman, doing business as Penn Lace & Braid Mfg. Co., Providence, R. I. "We Lace The World." (For Laces.) No. 25,150; Oct. 17.
- Berry, Dr. C. H., Company, Chicago, Ill. "Kremola." (For Face Creams.) No. 24,293; May 2.
- Billings Player Roll Company, Milwaukee, Wis. "Staffnotes." (For Boxes Containing Player Rolls for Piano Players.) No. 24,744; July 25.
- Biltmore Importing Co., New York, N. Y. "Ginnes' Stout Extract." (For Malt Extracts.) No. 24,225; Apr. 25.
- Blair Milling Company, The, Atchison, Kans. "My Own." (For Waffle and Pancake Flour.) No. 25,111; Oct. 10.
- Blanke-Wenneker Candy Co., St. Louis, Mo. "Wild Wave (chocolates)." (For Candies.) No. 24,988; Sept. 5.
- Blatz, Louis, La Mirada, Calif. "Peg O' Me Heart." (For a Game of Solitaire.) No. 24,989; Sept. 5.
- Blue & White Soap Co., Boston, Mass. "Blue & White Soap." (For Soap.) No. 24,433; June 6.

Alphabetical list of registrants of labels—Continued.

- Blumberg, Michael, doing business as the Crown Coloring & Chemical Co., New York, N. Y. "Crown Coloring & Chemical Co." (For Liquid Paints for Incandescent Lamps.) No. 24,907; Aug. 29.
- Bonn & Company, Inc., New York, N. Y. "Floralife." (For Packages Containing a Food for Plants and Flowers.) No. 25,056; Oct. 3.
- Bon-Ton Bakery. (See Kohn, Ad.)
- Booth, F. E., Company, San Francisco, Calif. "Crescent Brand." (For Sardines.) No. 24,294; May 2.
- Bourk-Donaldson-Taylor Fruit Company, The, Denver, Colo. "Extra Select Diamond Brand." (For Boxes of Apples.) No. 24,572; June 27.
- Boyd, Charles G., Bethlehem, Pa. "Boyd's Step Lively Foot Powder." (For a Foot Powder.) No. 25,442; Dec. 26.
- Brach, E. J., and Sons, Chicago, Ill. "Brach's 'Huck' Finn Peanut Bars." (For Candy Boxes and Containers for Peanut Bars.) No. 23,888; Jan. 17.
- Brach, E. J., and Sons, Chicago, Ill. "Brach's Whipped Creamed Chocolates Bittersweet." (For Candy Boxes and Containers for Whipped Cream Chocolates.) No. 23,889; Jan. 17.
- Blackman, John J., Atlantic City, N. J. "Pepsol." (For Receptacles Containing Tooth Paste.) No. 24,032; Feb. 14.
- Blaetz, J. H., Philadelphia, Pa. "Baby Lamb Hose." (For Hosiery.) No. 23,887; Jan. 17.
- Blatz, Val., Jr., Candy Co., Milwaukee, Wis. "Cherry-fairy." (For Candy.) No. 24,033; Feb. 14.
- Bond, Joseph W., New York, N. Y. "Original Bond Extract." (For Bottles Containing Nonalcoholic Beverages.) No. 23,997; Feb. 7.
- Borgfeldt, George, & Co., New York, N. Y. "Little Mother's Kidibake." (For Cooking Dishes for Toy Stoves.) No. 24,226; Apr. 25.
- Bosque, Arturo C., New York, N. Y. "Pepsina y Ruibarbo Bosque." (For a Remedy for Dyspepsia and Indigestion.) No. 24,034; Feb. 14.
- Bosque, Arturo C., New York, N. Y. "Pepsin and Rhubarb Bosque." (For a Remedy for Dyspepsia and Indigestion.) No. 24,035; Feb. 14.
- Bouillonized Peanut Company, Philadelphia, Pa. "Bouillonized Peanuts." (For Containers of Bouillonized Peanuts.) No. 24,131; Feb. 28.
- Boyd-Brenizer Corporation, Wilmington, Del., and Philadelphia, Pa. "Carlox Perfected Hair Curlers." (For Hair Curlers.) No. 24,036; Feb. 14.
- Braun Brothers Cigar Company, Wausau, Wis. "El Tovar." (For Boxes Containing Cigars.) No. 24,227; Apr. 25.
- Braun-Debold Co., Irvington, N. J. "Summore." (For Chocolate Puddings.) No. 24,228; Apr. 25.
- Brehme, Fred, doing business as Brehme Products Co., Irvington, N. J. "Brehme's Chocolate Pudding." (For a Preparation for Making Chocolate Pudding.) No. 24,992; Sept. 5.
- Brehme Products Co. (See Brehme, Fred.)
- Breslin & Campbell, Inc., New York, N. Y. "Beaver." (For Cigars.) No. 24,487; June 20.
- Bridgeman-Russell Co., Duluth, Minn. "Green Valley Creamery Butter." (For Butter.) No. 24,037; Feb. 14.
- Broshears, A. A., doing business as the Monument Ink Company, Indianapolis, Ind. "Monument Writing Fluid." (For Inks, Known as Writing and Copying Fluid.) No. 24,627; July 4.
- Brown, Earle D., doing business as The Everam Co., South Bend, Ind. "The Dream Feast." (For a Baked Confection.) No. 24,436; June 6.
- Brown, Kate, Co., Tacoma, Wash. "Kabro." (For a Hand or Skin Lotion.) No. 24,175; Mar. 7.
- Browning Preserve Co., Berkeley, Calif. "Browning's." (For Strawberry Preserve.) No. 23,890; Jan. 17.
- Bruno, James, Brooklyn, N. Y. "Baby-Bruno." (For Fresh Grapes.) No. 24,164; Mar. 7.
- Bryant, Lane, New York, N. Y. "Women's Apparel in Misses Sizes." (For Women's Apparel.) No. 24,229; Apr. 25.
- Bryant, Lane, New York, N. Y. "Women's Apparel in Misses Sizes." (For Women's Apparel.) No. 24,489; June 20.
- Bryant Produce Company, Los Angeles, Calif. "Pimientillo." (For Tomatoes.) No. 24,869; Aug. 15.
- Buckeye Brass and Manufacturing Company, The, Cleveland, Ohio. "Buckeye." (For Receptacles Containing Bearings and Bushings.) No. 23,998; Feb. 7.
- Buckeye Nurseries Incorporated, Tampa, Fla. "Temple Oranges." (For Packages Containing Fresh Oranges.) No. 24,437; June 6.
- Bulka, Max E., Chicago, Ill. "Friendly Tip." (For Cigars.) No. 24,295; May 2.
- Bunte Brothers, Chicago, Ill. "This And That In Chocolates." (For Candy.) No. 25,334; Nov. 21.
- Burns, George J., Youngstown, Ohio. "Trusco, The Superior Lubricating Oil." (For Lubricating Oils.) No. 24,331; May 9.
- Bussmann Manufacturing Company, St. Louis, Mo. "Buss Fuses." (For Electrical Plug Fuses.) No. 24,038; Feb. 14.
- Butler-Blanchard Co., Grand Island, Nebr. "Iceicle." (For Confections Having an Ice-Cream Base.) No. 25,112; Oct. 10.
- Butler, John A., Denver, Colo. "Cackle-More." (For Poultry Food.) No. 24,333; May 9.
- Byer & Sons, New York, N. Y. "Byers Golden Almonds." (For Packages Containing Almonds.) Nos. 24,573-4; June 27.
- C. J. Day, doing business as C. J. Day & Co., Honolulu, Hawaii. "Greetings From Hawaii." (For Gift Packages of Hawaiian Fresh Pineapples.) No. 25,363; Nov. 28.
- Cagan, Charles, doing business as The Zenith Polish Company, Beverly, Mass. "Zenith." (For an Instrument and Furniture Polish.) No. 25,057; Oct. 3.
- Calamia & O'Reardon Inc., New Orleans, La. "State Brand Butter." (For Cartons, Tubs, and Other Packages of Butter.) No. 24,826; Aug. 8.
- Calandra, Anthony, doing business as The Golden Food Co., Buffalo, N. Y. "Golden Food Skates." (For Prepared Fish Foods.) No. 25,414; Dec. 19.
- California De-Hydro Fruit Co., Milwaukee, Wis. "De-Hydro." (For Grapes.) No. 25,415; Dec. 19.
- California Olive Association, Los Angeles, Calif. "Certified." (For Olives.) No. 24,628; July 4.
- California Orange Kis Corporation, Los Angeles, Calif. "Co Kis—King of Orange Land." (For Orange Peel.) No. 24,132; Feb. 28.
- California Paint Company, Oakland, Calif. "12 Test." (For Paints.) No. 25,058; Oct. 3.
- California Peach & Fig Growers, Fresno, Calif. "Blue Ribbon Fig Brownies." (For a Health Food.) No. 24,230; Apr. 25.
- Callahan, Joseph A., Lynn, Mass. "KB Handy Shoe Shiner Cloth." (For Paper-Box Container and on Label Affixed to Cloth.) No. 24,745; July 25.
- Callaway, George McDaniel, San Antonio, Tex. "Creal-Co." (For Containers of a Solution Decalcified Creosote.) No. 24,746; July 25.
- Calso, Company, The, Vallejo, Calif. "Calso." (For Water.) No. 24,575; June 27.
- Caltex Company, The, San Jose, Calif. "The Caltex Company Rhino Textile Products." (For Artificial Leather.) No. 24,039; Feb. 14.
- Camel Beverage Co., Milwaukee, Wis. "Camel." (For Beverages.) No. 24,133; Feb. 28.
- Cameo Record Corporation, New York, N. Y. "Cameo." (For Photograph Records.) No. 24,231; Apr. 25.
- Campanella & Favors Macaroni Co., New York, N. Y. "Diaz Brand." (For Macaroni.) No. 24,438; June 6.
- Campbell Paper Box Company, South Bend, Ind. "Pure Gold Brand Creamery Butter." (For Cartons Serving as Containers for Butter.) No. 24,908; Aug. 29.
- Candy Craft, Inc., Chicago, Ill. "Little Jack Horner." (For Candies—Namely, Kiddie Junior Candies.) No. 23,999; Feb. 7.
- Candy Craft, Inc., Chicago, Ill. "Red Riding Hood." (For Candies—Namely, Kiddie Junior Candies.) No. 24,000; Feb. 7.
- Candy Craft, Inc., Chicago, Ill. "Old Mother Hubbard." (For Candies—Namely, Kiddie Junior Candies.) No. 24,001; Feb. 7.
- Candy Craft, Inc., Chicago, Ill. "Mary's Little Lamb." (For Candies—Namely, Kiddie Junior Candies.) No. 24,002; Feb. 7.
- Candy Craft, Inc., Chicago, Ill. "Humpty Dumpty." (For Candies—Namely, Kiddie Junior Candies.) No. 24,040; Feb. 14.
- Candy Craft, Inc., Chicago, Ill. "Tinkles the Clown." (For Candies—Namely, Kiddie Junior Candies.) No. 24,041; Feb. 14.
- Candy Craft, Inc., Chicago, Ill. "Jack and Jill." (For Candies—Namely, Kiddie Junior Candies.) No. 24,042; Feb. 14.
- Candy Craft, Inc., Chicago, Ill. "Fliverstick Candy." (For Candy.) No. 24,397; May 30.
- Candy-Toy Company of America, Harrisburg, Pa. "Fun." (For Candy and Confections.) No. 25,391; Dec. 5.
- Capaha Cigar Co., Cape Girardeau, Mo. "Cap-A-Ha." (For Cigars.) No. 24,775; Aug. 1.
- Capobianco, Pasquale, Philadelphia, Pa. "Corona D'Italia." (For Italian Cigar Boxes.) No. 25,361; Nov. 28.
- Carcel, Pablo, New York, N. Y. "Anadora." (For Cigars.) No. 24,334; May 9.
- Cardali, Vincenzo, New York, N. Y. "Theodora." (For Cigars.) No. 24,439; June 6.
- Carlton County Creamery Co. (See Menasha Printing and Carton Company, assignor.)
- Caro Creamery. (See Menasha Printing and Carton Company, assignor.)
- Carpenter-Morton Co., Boston, Mass. "Carmote Red Seal Floor Enamel." (For Carmote Red Seal Floor Enamel.) No. 24,332; May 9.
- Carqué Pure Food Company, Los Angeles, Calif. "Natural Foods of California Carqué." (For Black Mission Figs.) No. 24,043; Feb. 14.
- Carter, Thomas, & Sons, Inc., New York, N. Y. "The Country Gentleman Handkerchief." (For Boxes Containing Handkerchiefs.) No. 24,629; July 4.
- Carton Can Corporation, Chicago, Ill. "Arctic Sweethearts." (For Cartons and the Like Containing Ice Cream, Ices, Sherbets, Sundae, and Other Frozen Confections of a Similar Nature.) No. 25,113; Oct. 10.
- Castritsy, George P., New York, N. Y. "Valentino Cigarettes." (For Cigarettes.) No. 25,416; Dec. 19.
- Caswell, Geo. W., Co., San Francisco, Calif. "National Crest." (For Coffee.) No. 23,891; Jan. 17.

- Caverly-Plumer Company, Lynn, Mass. "White Mountain." (For Baking Powder.) No. 25,028; Sept. 12.
- Cavo, Alfonso, Brooklyn, N. Y. "Tangerine." (For Receptacles Containing Tangerine Soda.) No. 25,183; Oct. 24.
- Century Biscuit Co., Indianapolis, Ind. "Jumbo Bread." (For Bread.) No. 24,232; Apr. 25.
- Century Biscuit Co., Indianapolis, Ind. "Jim-Dandy Bread." (For Bread.) No. 24,490; June 20.
- Chalet Chocolate Corporation, New York, N. Y. "Chalet Egg-Milk Chocolate." (For Packages of Chocolate.) No. 24,909; Aug. 29.
- Chambley, Alexander, doing business as Gem Bronze Ink Co., Philadelphia, Pa. "Bronze Ink Varnish." (For Bronze Ink Varnish and Gold Ink Powder.) No. 24,993; Sept. 5.
- Charleston Drug Mfg. Co., Charleston, S. C. "Lightnin'." (For an Insecticide.) No. 24,696; July 11.
- Chattanooga Mattress Company, Chattanooga, Tenn. "White Swan." (For Mattresses.) No. 24,828; Aug. 8.
- Chenstohow Medical Laboratories, Inc., Buffalo, N. Y. "Celebrated Medicinal Wine of Chenstohow." (For Tonics and Laxatives.) No. 25,444; Dec. 26.
- Chero-Cola Bottling Co., Massillon, Ohio. "Schneider's Ginger Ale." (For Bottles Containing the Beverage Ginger Ale.) No. 25,263; Nov. 14.
- Chew, J. W., Baltimore, Md. "Big Planted Stock Oysters." (For Packages Containing Canned Oysters.) No. 24,134; Feb. 28.
- Chicago Automobile Trade Association, Chicago, Ill. "Tested and Approved Used Automobiles." (For Used Automobiles.) No. 24,491; June 20.
- Chicago Malt Extract Co., Chicago, Ill. "Daisy." (For Malt Extract.) No. 25,184; Oct. 24.
- Chicago Timer Factory Incorporated, Chicago, Ill. "Blue Flag Timer." (For Cartons Containing Timers Designed Particularly for Ford Cars, Tractors, and Trucks.) No. 24,044; Feb. 14.
- Children's Shoe Workers' Union of New York State, The, New York, N. Y. "The Children's Shoe Workers' Union of New York State." (For Children's Shoes.) No. 24,631; July 4.
- Chocolate Truffles Co., Inc., Portland, Oreg. "Truffle Mints." (For Candy.) No. 23,862; Jan. 10.
- Chore-Utensils Corporation of America, The. (See Kingman, Russell B., assignor.)
- Cini, D., Philadelphia, Pa. "San Marco." (For Alimentary Paste Products—Namely, Macaroni.) No. 25,114; Oct. 10.
- Citrus Growers Cash Association. (See Banks, Llewellyn A.)
- Citrus Soap Company of California, San Diego, Calif. "California Citrus Soap Powder." (For Soap Powder and Washing Powder.) No. 24,910; Aug. 29.
- City Dairy and Ice Cream Co., St. Joseph, Mo. "U-Tell-Em' It's Tas Tells." (For Ice Cream.) No. 24,776; Aug. 1.
- Clark Bro. & Co. Inc., Baltimore, Md. "Original Clarks Sealark Mayonnaise." (For Mayonnaise.) No. 25,029; Sept. 12.
- Clark, Mme. R. J., Wichita, Kans. "Growing Oil." (For Hair Preparations.) No. 25,115; Oct. 10.
- Clark & Snover Co., The, Scranton, Pa. "Dale's Sweet Scrap." (For Tobacco.) No. 24,045; Feb. 14.
- Clark, T. H., Dubuque, Iowa. "Clark's Soda and Magnesia Compound." (For a Soda and Magnesia Compound for the Relief of Stomach Trouble.) No. 23,863; Jan. 10.
- Clark, Wm. H., & Sons, Norfolk, Va. "Berkshire Pork Sausage Made and Guaranteed by Wm. H. Clark & Sons, Norfolk, Virginia." (For Sausages.) No. 24,335; May 9.
- Clawson & Wilson Company, Buffalo, N. Y. "Big Mike." (For Men's Work Shirts.) No. 23,892; Jan. 17.
- Clawson & Wilson Company, Buffalo, N. Y. "Big Mike." (For Men's Overalls.) No. 24,190; Mar. 14.
- Clawson & Wilson Company, Buffalo, N. Y. "Sunburst Ribbons." (For Silk Ribbons.) No. 24,191; Mar. 14.
- Clawson & Wilson Company, Buffalo, N. Y. "Polo Brand." (For Men's and Women's Sweaters.) No. 24,398; May 30.
- Cleveland Pharmacal Co., Calumet, Mich. "P. D. Corn Remedy." (For an Envelope for Corn Plasters.) No. 24,233; Apr. 25.
- Climax Dairy Co. (See Menasha Printing and Carton Company, assignor.)
- Climax Specialty Co., St. Louis, Mo. "Baby Pants." (For Baby Pants.) No. 24,135; Feb. 28.
- Clinton-Copeland Company, Burlington, Iowa. "Holly Pops." (For Candy.) No. 25,116; Oct. 10.
- Clivill Food Products, Inc., New York, N. Y. "Royall's French Dressing." (For Bottles Containing Salad Dressing.) No. 24,492; June 20.
- Coffin, George E., Shoe Co., Lynn, Mass. "Acme Band-age Arch Shoe." (For Shoes.) No. 24,192; Mar. 14.
- Cohen, Charles, Bridgeport, Conn. "Sanitary Milk Bottle Holder." (For Covers for Milk-Bottle Holders.) No. 24,870; Aug. 15.
- Cohen, Syma, Chicago, Ill. "Lady Esther Four Purpose Cream." (For Face Cream.) No. 24,630; July 4.
- Cohen, Syma, Chicago, Ill. "Lady Esther Whitener Cream." (For Face Cream.) No. 24,829; Aug. 8.
- Colby & McDermott, Los Angeles, Calif. "Abba-Zaba." (For Candies.) No. 24,493; June 20.
- Cole Lithographic & Printing Co., Chicago, Ill. "Trade Balance." (For Cigars.) No. 24,234; Apr. 25.
- Cole Lithographing and Printing Co., Chicago, Ill. "Cuban Samples." (For Cigars.) No. 24,296; May 2.
- Collins Candy Co., Washington, D. C. "Fresh Home Made Candy." (For Candies.) No. 24,136; Feb. 28.
- Collins, J. N., Company, Minneapolis, Minn. "Honey Scotch." (For Candy—Namely, Butter Scotch.) Nos. 24,235-6; Apr. 25.
- Collins, J. N., Company, Minneapolis, Minn. "Walnettos." (For Candy—Namely, Caramels.) No. 24,237; Apr. 25.
- Collins, J. N., Company, Minneapolis, Minn. "Walnettos." (For Candy—Namely, Caramels.) Nos. 24,632-3; July 4.
- Collins, J. N., Company, Minneapolis, Minn. "Walnettos." (For Complete Candy Parcels Made Up of a Box Filled with Wrapped Candy—Namely, Caramels.) No. 24,830; Aug. 8.
- Columbia Products Company, Columbia City, Ind. "Miracle the World's Greatest Cleaner." (For a Washing Compound.) No. 24,046; Feb. 14.
- Connor & McCormick, Los Angeles, Calif. "Aloha." (For Chocolates—Namely, Cherry Cocktail.) No. 24,831; Aug. 8.
- Consolidated Apple Grower's Exchange, Cornelia, Ga. "Beaming Beauties." (For Apples.) No. 24,199; Apr. 4.
- Consolidated Tuna Fish Company. (See Smith, J. R., Sales Co.)
- Constant Heat Pack Corporation, Albany, N. Y. "Re-charge." (For Chemical Heaters.) No. 24,832; Apr. 25.
- Consumers Biscuit Company, New Orleans, La. "Easter Joy." (For Candy.) No. 24,576; June 27.
- Continental Packing Corporation. (See American Cone and Pretzel Company.)
- Continental Paper & Bag Mills, New York, N. Y. "Snowflake Pop Corn." (For Pop-Corn Bags.) No. 24,994; Sept. 5.
- Cook, Bessie W., doing business as Pandora Products Company, Minneapolis, Minn. "Pandora Hand Lotion." (For a Hand Lotion.) No. 25,264; Nov. 14.
- Cook, Harry A., Yakima, Wash. "Auto Drive Friend." (For Cement.) No. 24,116; Feb. 21.
- Copps Co., The, Stevens Point, Wis. "Deerwood." (For Sweet Corn.) No. 24,777; Aug. 1.
- Cordner, Edward Q., Chicago, Ill. "Hamwich." (For Sandwiches.) No. 25,332; Nov. 21.
- Corticelli, Faustino, Newark, N. J. "Grated Cheese." (For Grated Cheese.) No. 23,956; Jan. 31.
- Cottage Creamery Co. (See Menasha Printing and Carton Company, assignor.)
- Cozad, Oscar O., doing business as Royal Products Co., San Francisco, Calif. "Royal Brand Quality Mayonnaise." (For Bottled Mayonnaise.) No. 25,185; Oct. 24.
- Crane, Walter B., Dover Plains, N. Y. "Dover Hill Honey." (For Bottles and Cans Containing Honey.) tacles Containing Ammonia.) No. 24,128; Feb. 21.
- No. 24,117; Feb. 21.
- Creger, Henry N., doing business as The Red Gum Products Company, San Francisco, Calif. "Regum Tooth Paste." (For Tooth Paste.) No. 24,440; June 6.
- Cremint Co., New York, N. Y. "Cremint's." (For Packages of Candy.) No. 24,494; June 20.
- Crescent Company, The, Tarrs, Pa. "Crescent Farm." (For Unsweetened Evaporated Milk.) No. 24,047; Feb. 14.
- Cribari, B., & Sons, San Jose, Calif. "Sonnie Boy." (For Grapes.) No. 24,137; Feb. 28.
- Crosby, Alfred E., Highland Park, Mich. "White Diamond The Gem of Shoe Cleaners." (For Packages Containing a Chemical Preparation for Cleaning Shoes and other Leather and Fabric Articles.) No. 23,957; Jan. 31.
- Crossley, Nat M., Oakland, Calif. "Edgemont." (For Apples.) No. 24,577; June 27.
- Crouch & Plassman, Bridgeport, Conn. "Manna Bread." (For Bread.) No. 24,297; May 2.
- Crow Clo. Co. (See Gassner, Ernst M.)
- Crown Brewing Co. Inc., The, Cincinnati, Ohio. "Happy Days." (For a Beverage.) No. 24,634; July 4.
- Crown Coloring & Chemical Co. (See Blumery, Michael.)
- Crown Brewing Company, The, Cincinnati, Ohio. "Crown." (For Root Beer.) No. 24,778; Aug. 1.
- Crystal Ice Hold Storage Co., Portland, Oreg. "Weatherly." (For Ice Cream.) No. 24,911; Aug. 29.
- Cubbison, H. G., Los Angeles, Calif. "Cubbison's Fig Bran Bread." (For Wrappers Containing Cubbison's Fig Bran Bread.) No. 25,362; Nov. 28.
- Cultured Coffee Company of America, Detroit, Mich. "Anza The Culture Ripened Coffee." (For Coffee.) No. 24,298; May 2.
- Cunningham, John R., Kansas City, Mo. "Jack's Fish Ferrets." (For Fishing Tackle.) No. 24,716; July 18.
- Cunningham, John R., Kansas City, Mo. "Jack's Bait Wiggle Tail." (For Containers for Fishing Bait.) No. 24,717; July 18.
- Cunningham, John R., Kansas City, Mo. "Pork-Oreno." (For Containers for Fishing Bait.) No. 24,833; Aug. 8.
- Curran, J. E., Corporation, New York, N. Y. "Falling Hair and Dry Scalp." (For a Preparation for the Hair and Scalp.) No. 25,059; Oct. 3.

Alphabetical list of registrants of labels—Continued.

- Curran, J. E., Corporation, New York, N. Y. "Dandruff and Irritation." (For a Preparation for the Hair and Scalp.) No. 25,060; Oct. 3.
- Curz-It Company, The, Fairfield, Pa. "Curz-It For Coughs & Colds." (For 2-Ounce Bottles of Curz-It Cough Sirup.) No. 25,213; Oct. 31.
- Cushman's Sons Inc., New York, N. Y. "Cushman's Home Made Bread." (For Loaves of Bread.) No. 24,238; Apr. 25.
- Cushman's Sons, Inc., New York, N. Y. "Cushman's Sons, Inc., Grade A Bread." (For Bread.) No. 25,333; Nov. 21.
- Dan-Doo Co., The, Kansas City, Mo. "Dan-Doo." (For Containers for a Massage Cream, for Treatment of Dandruff, Black Heads, Eczema, and Pimples of Skin and Scalp.) No. 24,299; May 2.
- Daniels, Lorin A., Kansas City, Mo. "Butterrolls." (For Rolls.) No. 24,048; Feb. 14.
- Daugherty, Chas. S. & Son, Philadelphia, Pa. "Victory Elixir." (For a Liquid for Killing Flies, Fleas, Gnats.) No. 23,864; Jan. 10.
- Davenport Company, The. (See Davenport, Daniel F.)
- Davenport, Daniel F., doing business as The Davenport Company, Americus, Ga. "Death-Blo Certainly Annihilates Pests." (For Packages Containing a Preparation for Destroying Insects.) No. 24,718; July 18.
- Davis Company, The. (See Menasha Printing and Carton Company, assignor.)
- Davis, Geo. A., Bottling Works. (See Davis, Geo. A., Co. Inc.)
- Davis, Geo. A., Co. Inc., doing business as Geo. A. Davis Bottling Works, Gloucester, Mass. "Royal Club." (For Ginger Ale.) No. 25,214; Oct. 31.
- Davis & Lawrence Co., New York, N. Y. "Compound Syrup of Hypophosphites." (For a Compound Syrup of Hypophosphites.) No. 25,417; Dec. 19.
- Davis, Mary E., Kansas City, Kans. "Snow-Birds." (For Wrappers and Cartons for Chocolate Coated Sandwiches.) No. 25,151; Oct. 17.
- Day, C. J., & Co. (See Day, C. J.)
- Debevoise Company, The, Brooklyn, N. Y. "De-Pa-Co Concote." (For Packages and Containers for Paints.) No. 24,049; Feb. 14.
- Debevoise Company, The, Brooklyn, N. Y. "De-Pa-Co Flat Finish." (For Packages and Containers for Paints.) No. 24,050; Feb. 14.
- Debevoise Company, The, Brooklyn, N. Y. "Dereka Metal Paint." (For Packages and Containers for Paints.) No. 24,051; Feb. 14.
- Debevoise Company, The, Brooklyn, N. Y. "De-Pa-Co Mill White Paint." (For Packages and Containers for Paints.) No. 24,052; Feb. 14.
- Debevoise Company, The, Brooklyn, N. Y. "De-Pa-Co Servicecoat Enamel." (For Packages and Containers for Paints.) No. 24,053; Feb. 14.
- Debevoise Company, The, Brooklyn, N. Y. "De-Pa-Co Best Quality Paint." (For Packages and Containers for Paints.) No. 24,054; Feb. 14.
- Debevoise Company, The, Brooklyn, N. Y. "De-Pa-Co Luxe Enamel." (For Packages and Containers for Paints.) No. 24,055; Feb. 14.
- Decatur Brewing Company, Decatur, Ill. "White Banner." (For Malt Extract.) No. 23,958; Jan. 31.
- De Giorgio, Rosario, Los Angeles, Calif. "Tastee." (For Cantaloupes.) No. 24,747; July 25.
- De Lassé, Luis, Lynn, Mass. "Hepa-Radium." (For Medicine for Stomach and Intestinal Troubles.) No. 25,061; Oct. 3.
- Delico Products Company, Sheridan, Wyo. "Delico Dips." (For Chocolate-Coated Frozen Confections.) No. 24,635; July 4.
- De Long Hook & Eye Co., Philadelphia, Pa. "De Long Hair Net." (For Hair Nets.) No. 24,336; May 9.
- Des Moines Bakery Co., Des Moines, Iowa. "Everybody's Bread." (For Loaves of Bread.) No. 24,056; Feb. 14.
- Denio, J. W., Milling Company, The, Sheridan, Wyo. "Diamond D." (For Flour.) No. 24,495; June 20.
- Denio, J. W., Milling Company, The, Sheridan, Wyo. "Wheatbest." (For Flour.) No. 24,496; June 20.
- Den-Wal Manufacturing Company, The, Newark, N. J. "Moth-Ene." (For a Moth Destroyer.) No. 25,392; Dec. 5.
- Desapio, Toney, Devon, Conn. "Perfection Healing and Soothing Compound." (For Jars and Packages of Medicinal Salve.) No. 25,030; Sept. 12.
- Deshell Laboratories, Inc., Los Angeles, Calif. "Petro-lagor." (For a Remedy for Constipation.) No. 24,912; Aug. 29.
- Desnoyers, P. Peck, Montclair, N. J. "The Spinning Witch She Tells Your Fortune." (For a Game.) No. 24,239; Apr. 25.
- Desnoyers, P. Peck, Montclair, N. J. "The Spinning Witch Game." (For a Game.) No. 24,240; Apr. 25.
- Dessart Bros., Brooklyn, N. Y. "The Universal Toy." (For Masks.) No. 24,441; June 6.
- Detroit Packing Co., Detroit, Mich. "Deerfield Brand." (For Breakfast Sausage.) No. 24,399; May 30.
- Detroit Packing Co., Detroit, Mich. "Detroitier Brand." (For Sliced Sugar Cured Bacon.) No. 24,578; June 27.
- Detroit Washing Machine Corporation, Detroit, Mich. "Abso-Clean." (For Electric Washers.) No. 23,893; Jan. 17.
- Dewey, Edward B., doing business as Falcon Products Inc., Brooklyn, N. Y. "Falcon." (For Packages and Boxes Containing Hairpins.) No. 24,871; Aug. 15.
- Dexter Baking Company, The, Waterbury, Conn. "Dexter's Spicy Buns." (For Buns.) No. 23,865; Jan. 10.
- Dexter Baking Company, The, Waterbury, Conn. "Dexter's Mother's Bread." (For Bread.) No. 23,959; Jan. 31.
- Dexter Baking Company, The, Waterbury, Conn. "Dexter's Aunt Mary's Bread." (For Bread.) No. 24,057; Feb. 14.
- Dexter Baking Company, The, Waterbury, Conn. "Dexter's Hot Cross Buns." (For Bread.) No. 24,400; May 30.
- Dexter Baking Company, The, Waterbury, Conn. "Dexter's Whole Wheat Bread." (For Bread.) No. 24,497; June 20.
- Dexter Baking Company, The, Waterbury, Conn. "Dexter's Milk Bread." (For Bread.) No. 24,779; Aug. 1.
- Dexter Baking Company, The, Waterbury, Conn. "Dexter's Table Queen Bread." (For Bread.) No. 24,780; Aug. 1.
- Dexter, Eugene A., Springfield, Mass. "Dexter's Mother's Bread." (For Bread.) No. 24,719; July 18.
- Diamond, Oppenheimer & Co., Chicago, Ill. "Doco Maid Human Hair Net." (For Doco Maid Human-Hair Nets.) No. 23,960; Jan. 31.
- Dickson, Mrs. Virginia, St. Louis, Mo. "Royal Special Hair Grower." (For Containers of Hair Preparation.) No. 25,215; Oct. 31.
- Dinsmore, Robert M., Little Falls, N. J. "Barrel of Wireless Music." (For a Transformer Used in Wireless Receiving Sets.) No. 25,265; Nov. 14.
- Director, Hyman, Los Angeles, Calif. "Sun Tex." (For Outdoor Apparel.) No. 24,926; Aug. 29.
- Dixie Fruit Products Company, Mobile, Ala. "Mo-Bil-Bay." (For Shrimp.) No. 24,241; Apr. 25.
- Dixie Ice Cream Co. (See Menasha Printing and Carton Company, assignor.)
- Dixon-Miller Co., Philadelphia, Pa. "Lilliputians." (For a Small Piece of Hard Candy, Similar to a Taffy on a Stick.) No. 24,242; Apr. 25.
- Donovan, Peter T., doing business as P. T. Donovan Co., New York, N. Y. "Varicosol." (For a Box Containing a Medical Preparation in Powder Form for the Treatment of Hardening of the Arteries, Varicocele, Varicose Veins, and Rheumatism.) No. 24,720; July 18.
- Doodeward, Joseph, Covington, Ky. "Doodeward's Lightning Wonder Gloss." (For Automobiles, Pianos, Furniture, Woodwork, and All Varnished, Painted, and Enameled Surfaces.) No. 24,375; May 16.
- Douglas & Burns, Ltd., Des Moines, Iowa. "Crowned with Wealth of Vitamines." (For Containers Having Ingredients for Beverages Sold as a Soft Drink.) No. 25,031; Sept. 12.
- Douvres, Peter, Chicago, Ill. "Co-Co-Con." (For a Cone Made of Pure Chocolate and Filled with Confections.) No. 25,032; Sept. 12.
- Dragon Paper Mfg. Co. Inc., Long Island City, N. Y. "None Such Bread." (For Bread.) No. 24,442; June 6.
- Dragon Paper Mfg. Co., Inc., Long Island City, N. Y. "Polly Bread." (For Bread.) No. 24,498; June 20.
- Drew, Rose, New York, N. Y. "Shepherd Wool Flannel Shirt." (For Shirts.) No. 25,266; Nov. 14.
- Drew, Rose, New York, N. Y. "Lorraine Shirt." (For Shirts.) No. 25,267; Nov. 14.
- Drew, Rose, New York, N. Y. "Yorktown Shirt." (For Shirts.) No. 25,268; Nov. 14.
- Drug Products Co., Inc., The, Long Island City, N. Y. "Palatable Tablets Vita Yeast." (For Packages Containing a Food Tonic.) No. 24,499; June 20.
- Drug Products Co., Inc., The, Long Island City, N. Y. "Palatable Granules Vita Yeast." (For Packages Containing a Food Tonic.) No. 24,500; June 20.
- Drug Products Co., Inc., The, Long Island City, N. Y. "Lozenges No. 12 Ithesin." (For Packages Containing a Medicinal Preparation.) No. 24,781; Aug. 1.
- Drug Products Co., Inc., The, Long Island City, N. Y. "Pulvoids No. 386 Isote." (For Packages Containing a Medicinal Preparation.) No. 24,782; Aug. 1.
- Dry Hand Mop Co., Inc., New Orleans, La. "Dry Hand Mops, They Are Sanitary." (For Mops.) No. 25,269; Nov. 14.
- Duke, Lee, Gallatin, Tenn. "Le Duke." (For Cigars.) No. 25,216; Oct. 31.
- Dunbar Molasses & Syrup Co., New Orleans, La. "Dunbar's Pitcher Molasses." (For Molasses.) No. 24,872; Aug. 15.
- Dutton, Llewellyn B., San Jose, Calif. "Double Eagle." (For Fresh Peas.) No. 24,697; July 11.
- E Z Waist Company, The, New York, N. Y. "The E Z Waist Union Suit." (For Union Suits.) Nos. 23,949-50; Jan. 17.
- Earl Fruit Company of the Northwest, Spokane, Wash. "Gabbler." (For Apples.) No. 25,418; Dec. 19.
- Earle, George H., 3d, Pittsburgh, Pa. "Snowflake Icing Sugar." (For Packages Containing Powdered Sugar.) No. 23,866; Jan. 10.
- Eastbay Chemical Company. (See Standard Chemical Co.)
- Eastern Pin Ticket & Tag Co., Perkasie, Pa. "'Roll' Your Label Troubles Away." (For Gummed Labels in Rolls.) No. 24,337; May 9.

- Eaton, A. M., Paper Co., Boston, Mass. "Big Money." (For Toilet Paper.) No. 25,217; Oct. 31.
- Eaton, A. M., Paper Co., Boston, Mass. "Silvo." (For Toilet Paper.) No. 25,218; Oct. 31.
- Eaton, A. M., Paper Co., Boston, Mass. "Sanus." (For Toilet Paper.) No. 25,219; Oct. 31.
- Eaton, A. M., Paper Co., Boston, Mass. "Hygro." (For Toilet Paper.) No. 25,220; Oct. 31.
- Eau Claire Baking Co. (See Menasha Printing and Carton Company, assignor.)
- Eck, John A., Co., Chicago, Ill. "Revelation." (For Cantaloupes.) No. 24,058; Feb. 14.
- Eck, John A., Co., Chicago, Ill. "Revelation." (For Apples.) No. 24,059; Feb. 14.
- Eclipse Mills Company, Inc., Philadelphia, Pa. "Everlastik Sport Coat." (For Sweaters.) No. 24,300; May 2.
- Eclipse White Lead & Color Co., Brooklyn, N. Y. "Surfa-Save." (For Paints.) No. 24,501; June 20.
- Economy Bias Binding Co., The, New York, N. Y. "Bonnie Blue." (For Bias Seam Tapes.) No. 24,834; Aug. 8.
- Economy Bias Binding Co., New York, N. Y. "Cream of the Mill." (For Bias Tape.) No. 25,062; Oct. 3.
- Edwards, Glen T., San Francisco, Calif. "Speed." (For Boxes Containing a Corn, Wart, and Mole Remedy.) No. 24,301; May 2.
- Edwards, Richard E., Richmond, Ind. "The Dunbar Special." (For Cigar Boxes and Cans.) No. 24,060; Feb. 14.
- Ego Trading Corporation, New York, N. Y. "Vanity the Modish Woman's Favorite." (For Hair Nets.) No. 24,243; Apr. 25.
- Electro Heater Co., Washington, D. C. "Imerso Electric Water Heater." (For Immersion Electric Water Heaters.) No. 24,138; Feb. 28.
- Eline's Incorporated, Milwaukee, Wis. "Eline's Sweet Milk Chocolate." (For Milk Chocolate.) No. 24,061; Feb. 14.
- Ellis, W. E., Company, Haverhill, Mass. "Staso." (For Shoe Laces.) No. 24,338; May 9.
- Elmer Candy Co. Inc., New Orleans, La. "Elmer's Pick O' Sweets." (For Candy.) No. 24,003; Feb. 7.
- Elson, Nathan, Chicago, Ill. "Ben Bey." (For Cigars.) No. 24,502; June 20.
- Emerson Drug Company, Baltimore, Md. "Emerson's Ginger-Mint Julip." (For Nonalcoholic Beverages Sold at Fountains and in Bottles as a Soft Drink.) No. 24,835; Aug. 8.
- Englewood Candy Mfg. Co., Chicago, Ill. "Oh! Sweetie." (For Candy.) No. 24,593; June 20.
- Ennis-Hanly-Blackburn Coffee Co., Kansas City, Mo. "Golden Wedding." (For Roasted Coffee.) No. 25,270; Nov. 14.
- Entomological Laboratories of North America, The, Jersey City, N. J. "Bingo." (For Bug Killer.) No. 24,836; Aug. 8.
- Estate of Richard Binder; R. C. R. Binder and Laura B. Schreiber, trustees, Philadelphia, Pa. "The Binder." (For Tar and Antiseptic Soap.) No. 24,244; Apr. 25.
- Euclid Candy Co., The, Cleveland, Ohio. "Love Nest." (For Candy.) No. 24,783; Aug. 1.
- Eureka Metal Polish Co. (Inc.), Chicago, Ill. "Eureka." (For Automobile and Furniture Polish.) No. 23,961; Jan. 31.
- Evansville Packing Company, The, Evansville, Ind. "Smile-Boy." (For Boiled Ham.) No. 25,271; Nov. 14.
- Everam Co., The. (See Brown, Earle D.)
- Everett Heaney & Co. Inc., New York, N. Y. "Playa Cloth." (For Men's, Boys', and Young Men's Outer Garments—Namely, Overcoats and Suits.) No. 25,419; Dec. 19.
- Eyre, Edith, Philadelphia, Pa. "Letty Penn Nut Bread Home Made." (For Nut Bread.) No. 24,245; Apr. 25.
- Falcon Products Inc. (See Dewey, Edward B.)
- Falcon Products Incorporated, New York, N. Y. "Falconette." (For Packages and Boxes Containing Hair Nets.) No. 24,784; Aug. 1.
- Far Rockaway Candy Company, Far Rockaway, N. Y. "Freez O Pop." (For Confections as a Wrapper.) No. 24,913; Aug. 29.
- Farmers' Veterinary Service, Inc., Kingston, N. Y. "Farmers' Home Veterinary Cabinet." (For Veterinary Cabinets.) No. 24,339; May 9.
- Farney, George W., doing business as Farney Trufood Company, Morris Plains, N. J. "Trufood." (For Breakfast Cereal.) No. 24,873; Aug. 15.
- Farney Trufood Company. (See Farney, George W.)
- Federal Slipper Co. Inc., New York, N. Y. "Original Puss in Boot." (For Felt Boots or Slippers.) No. 24,004; Feb. 7.
- Feinberg Kosher Sausage Co., Minneapolis, Minn. "Feinberg Kosher Sausage Co." (For Sausages.) No. 23,962; Jan. 31.
- Fenton, Elmer B., Olin, Iowa. "Dr. E. B. Fenton's Special Preparation." (For Packages Containing Remedies for the Diseases of Swine.) No. 25,186; Oct. 24.
- Field Candy Company, The, Chicago, Ill. "Fruitmax." (For Candy and Confectionery.) No. 23,895; Jan. 17.
- First National Laboratories, Lehigh, Pa. "Dr. White's Lung Healer." (For Bottles Containing a Medicine for the Treatment of Sore and Inflamed Lungs, Coughs, Colds, and Bronchial Troubles in General.) No. 25,187; Oct. 24.
- First National Laboratories, Lehigh, Pa. "Nat-Co-Hol." (For Bottles Containing First National Bathing Alcohol, Which is a Combination of Medicated Alcohol for Bathing or Massaging.) No. 25,188; Oct. 24.
- First National Laboratories, Lehigh, Pa. "Dr. White's Medicated Beauty Skin Soap." (For Cakes of Medicated Soap for the Treatment of Skin Disorders.) No. 25,245; Nov. 7.
- First National Laboratories, Lehigh, Pa. "Dr. White's Oil of Youth." (For Bottles Containing a Liniment for Internal and External Use.) No. 25,364; Nov. 28.
- First National Pharmacy, Lehigh, Pa. "First National Tasteless Solution of Epsom Salt." (For Bottles Containing a Tasteless Solution of Epsom Salt.) No. 24,246; Apr. 25.
- Flint, William R., Los Angeles, Calif. "Vanessa Cream Soap." (For a Collapsible Tube for Containing Soap.) No. 25,335; Nov. 21.
- Flintkote Company, The, Boston, Mass. "Roofing." (For Prepared Roofing.) No. 23,963; Jan. 31.
- Flores, Antonio, Brooklyn, N. Y. "La Anfores." (For Cigars.) No. 24,165; Mar. 7.
- Flo-Voro Company, Omaha, Nebr. "Killafly." (For Packages Containing Insect Powders.) No. 23,896; Jan. 17.
- Fort Harrison Sales Co., Terre Haute, Ind. "Master Seal 2 in 1." (For Auto Tube Patch Outfits.) No. 24,914; Aug. 29.
- Fort Howard Paper Company, Green Bay, Wis. "Owl Crepe." (For Toilet Paper, Paper Napkins, Paper Towels, and Paper Tablecloths.) No. 23,897; Jan. 17.
- Fort Howard Paper Company, Green Bay, Wis. "Vanguard." (For Toilet Paper.) No. 24,874; Aug. 15.
- Fort Howard Paper Company, Green Bay, Wis. "Security." (For Paper Towels.) No. 25,336; Nov. 21.
- Fort Howard Paper Company, Green Bay, Wis. "Doll Cut-Out Crepe." (For Toilet Paper.) No. 25,393; Dec. 5.
- Foster, Merriam & Company, Meriden, Conn. "Bear-Tite Piston Ring." (For Envelopes and Boxes for Piston Rings.) No. 25,033; Sept. 12.
- Fountain, C. M., Topeka, Kans. "Saratoga Golden Chips." (For Bags and Boxes Containing Saratoga Potato Chips.) No. 24,216; Apr. 18.
- Fox, C. J., Company, The, Providence, R. I. "Blossom." (For Folders for Hosiery.) No. 24,247; Apr. 25.
- Fox, C. J., Company, The, Providence, R. I. "Laurelette." (For Display Cards for Jewelry.) No. 24,302; May 2.
- Frain, E. T., Lock Company, The, Lancaster, Pa. "Padlocks." (For Padlocks.) No. 24,166; Mar. 7.
- Frank Tea & Spice Co., The, Cincinnati, Ohio. "Bull Dog Brand Fly and Insect Powder." (For Packages of Insect Powder.) No. 23,898; Jan. 17.
- Frankel, B., Company, The, New York, N. Y. "Admiral." (For Envelopes Containing Hair Nets.) No. 24,636; July 4.
- Frankel, B., Company, The, New York, N. Y. "Fenway." (For Envelopes Containing Hair Nets.) No. 24,637; July 4.
- Frankel, B., Company, The, New York, N. Y. "Yankee Girl." (For Envelopes Containing Hair Nets.) No. 24,638; July 4.
- Frankel, B., Company, The, New York, N. Y. "Peggy." (For Envelopes Containing Hair Nets.) No. 24,639; July 4.
- Frankel, B., Company, The, New York, N. Y. "Lion Brand." (For Envelopes Containing Hair Nets.) No. 24,640; July 4.
- Frankel, B., Company, The, New York, N. Y. "Tiredy." (For Envelopes Containing Hair Nets.) No. 24,641; July 4.
- Fraser Valley Dairies, Ltd. (See Menasha Printing and Carton Company, assignor.)
- Frazar & Company, doing business as Sale & Frazar Ltd., New York, N. Y. "Excelsior." (For Crab.) No. 25,365; Nov. 28.
- Freedman & Co., Harrisburg, Pa. "Neptune." (For Hosiery.) No. 24,139; Feb. 28.
- Freihofer, William, Philadelphia, Pa. "Sandwich Bread." (For Bread.) No. 24,303; May 2.
- Friedman-Kerr Co., The, Chicago, Ill. "Nut Roll Moonshine Minnie." (For Candy.) No. 24,443; June 6.
- Friedman-Kerr Co., The, Chicago, Ill. "Dandy Boy." (For Candy.) No. 24,444; June 6.
- Friedman-Kerr Co., The, Chicago, Ill. "Devil's Food Devilish Good." (For Candy.) No. 24,445; June 6.
- Friedman-Kerr Co., The, Chicago, Ill. "Kerr's Bun." (For Candy.) No. 24,446; June 6.
- Friedman-Kerr Co., The, Chicago, Ill. "Big Hit Nut Roll." (For Candy.) No. 24,447; June 6.
- Friedman-Kerr Co., The, Chicago, Ill. "Kerr's Snow Ball." (For Candy.) No. 24,448; June 6.
- Friedman-Kerr Co., The, Chicago, Ill. "Kerr's High Ball." (For Candy.) No. 24,449; June 6.
- Friedman-Kerr Company, The, Chicago, Ill. "Be-Kissed." (For Candy.) No. 25,117; Oct. 10.
- Frisch, Emile, Chicago, Ill. "Da-Da Bread." (For Bread.) No. 25,152; Oct. 17.
- Frozen Fruit, Inc., Harrisburg, Pa. "Honey-Like Coconut Showers." (For Candy and Confections.) No. 24,642; July 4.

Alphabetical list of registrants of labels—Continued.

- Frozen Fruit, Inc., Harrisburg, Pa. "Cocoanut Showers 'Honey-Like'." (For Candy and Confections.) No. 24,643; July 4.
- Frudeger Brothers. (See Frudeger, Geo. P. and W. F.)
- Frudeger, Geo. P. and W. F., doing business as Frudeger Brothers, Burlington, Iowa. "Golden Krust." (For Bread.) No. 25,443; Dec. 26.
- Frudeger, William F. (See Frudeger, Geo. P. and W. F.)
- Frutchey, W. J. R., & Co., New York, N. Y. "Frutchey Silk Shop." (For Silk Fabrics in the Piece.) No. 24,062; Feb. 14.
- Fuller-Morrison Company, Chicago, Ill. "Eudora." (For a Container for Human Hair Nets.) No. 24,140; Feb. 28.
- G. & G. Bottling Co., Washington, D. C. "G and G." (For Ginger Ale.) No. 25,413; Dec. 19.
- Gaffney, James P., doing business as Old French Co., Cleveland, Ohio. "The Original Old French Quinine." (For a Hair Tonic.) No. 25,394; Dec. 5.
- Gaffney, James P., doing business as Old French Company, Cleveland, Ohio. "The Original Old French Lilac." (For Toilet Water.) No. 25,395; Dec. 5.
- Gair, Robert, Company, New York, N. Y. "Chocolates." (For Candy.) No. 24,995; Sept. 5.
- Gair, Robert, Company, New York, N. Y. "Hard Candies." (For Candy.) No. 24,996; Sept. 5.
- Golden Food Co., The. (See Calandra, Anthony.)
- Gallinati, James L., Flint, Mich. "Stork Shop Packet." (For Packages Containing Maternity Supplies.) No. 25,189; Oct. 24.
- Gamble, Josephine, Oakland, Calif. "White Eagle." (For Pile Salve.) No. 24,579; June 27.
- Garcia, Joseph A., & Company, New York, N. Y. "Flor De Garcia & Co. Havana." (For Cigars, Cigarettes, and Tobacco.) No. 24,721; July 18.
- Garden State Cooperative Potato Association, Trenton, N. J. "Garden State Potatoes." (For Potatoes.) No. 25,063; Oct. 3.
- Gardner Broom Co., Amsterdam, N. Y. "Goldwin." (For Brooms.) No. 24,504; June 20.
- Gardner Broom Co., Amsterdam, N. Y. "White Rose." (For Brooms.) No. 24,505; June 20.
- Gardner Broom Co., Amsterdam, N. Y. "Morning Glory." (For Brooms.) No. 24,506; June 20.
- Gardner, Henry A., Paint Co. (See Gardner, Henry A.)
- Gardner, Henry A., doing business as Henry A. Gardner Paint Co., Washington, D. C. "Save the Surface." (For Paints and Varnishes.) No. 24,580; June 27.
- Gardner, Henry A., Washington, D. C. "Rode Tite." (For Waterproofing Plastic Compositions for Roads and Cement Constructions.) No. 25,064; Oct. 3.
- Gardner, Henry A., Washington, D. C. "Rode Wite." (For Waterproofing Plastic Compositions for Roads and Cement Constructions.) No. 25,065; Oct. 3.
- Garnet, George H., Allentown, Pa. "Fluffy Puff." (For a Confection Comprising Ice Cream Inclosed within Pastry.) No. 24,507; June 20.
- Gash, Abraham, New York, N. Y. "Virgin Olive Oil." (For Olive Oil.) No. 24,508; June 20.
- Gaspard, Emile, Cleveland, Ohio. "Shampoo Powder La Rose." (For Shampoo Powder.) No. 25,272; Nov. 14.
- Gassner, Ernst M., doing business as Crow Clo. Co., St. Louis, Mo. "Crow Trousers." (For Gentlemen's Trousers.) No. 25,221; Oct. 31.
- Gateway Cramery Co. (See Menasha Printing and Carton Company, assignor.)
- Gearo Mfg. Co., Quincy, Ill. "G M C Metallic Grease." (For Lubricating Grease.) No. 24,722; July 18.
- Gebhardt Chili Powder Co., San Antonio, Tex. "Deviled Chili Meat." (For Deviled Chili Meat.) No. 24,005; Feb. 7.
- Gelb, Julius, Philadelphia, Pa. "The Original J G Standard Hair Net." (For Hair Nets.) No. 24,063; Feb. 14.
- Gelfand, Simon, Baltimore, Md. "Gelfand's Combination Relish." (For Relish.) No. 24,401; May 30.
- Gelfand, Simon, Baltimore, Md. "Gelfand's Olive Mayonnaise." (For Mayonnaise, a Food Dressing.) No. 24,402; May 30.
- Gelfand, Simon, Baltimore, Md. "Gelfand's Combination Relish." (For Relish.) No. 24,403; May 30.
- Gem Bronze Ink Co. (See Chambley, Alexander.)
- General Baking Company, New York, N. Y. "Bond Flour." (For Flour Containers.) No. 25,118; Oct. 10.
- George Paper Corporation, The, Albany, N. Y. "Georgian." (For Toilet Paper.) No. 25,066; Oct. 3.
- George Paper Corporation, The, Albany, N. Y. "Fort George." (For Toilet Paper.) No. 25,067; Oct. 3.
- George Paper Corporation, The, Albany, N. Y. "George Junior." (For Toilet Paper.) No. 25,119; Oct. 10.
- General Preserve Company, The, Penns Grove, N. J. "Bond Soup." (For Sealed Cans Containing Soups of Various Kinds.) No. 24,064; Feb. 14.
- General Tobacco Company, The, Louisville, Ky. "Churchill Downs." (For Cigarettes.) No. 24,248; Apr. 25.
- Gibbs & Co., Chicago, Ill. "Annoitette Silk Hair Net Knotted Ends." (For Hair Nets.) No. 24,167; Mar. 7.
- Glass, Jackson C. E., Oakland, Calif. "Silk Tissue." (For Toilet Paper.) No. 24,006; Feb. 7.
- Glemby, S., Inc. (now by change of name S. Glemby's Sons Co., Inc.), New York, N. Y. "Mila." (For Boxes, Packages, or Envelopes Containing Hair Nets.) No. 24,997; Sept. 5.
- Glemby, S., Inc. (now by change of name S. Glemby's Sons Co., Inc.), New York, N. Y. "Camilla Hair Net." (For Hair Nets.) No. 24,998; Sept. 5.
- Glemby, S., Inc. (now by change of name S. Glemby's Sons Co., Inc.), New York, N. Y. "Sophia." (For Boxes, Packages, or Envelopes Containing Hair Nets.) Nos. 24,999-25,000; Sept. 5.
- Glemby, S., Inc. (now by change of name S. Glemby's Sons Co., Inc.), New York, N. Y. "Regina." (For Boxes, Packages, or Envelopes Containing Hair Nets.) No. 25,001; Sept. 5.
- Glemby, S., Inc. (now by change of name S. Glemby's Sons Co., Inc.), New York, N. Y. "Jean." (For Boxes, Packages, or Envelopes Containing Hair Nets.) No. 25,068; Oct. 3.
- Glemby, S., Inc. (now by change of name S. Glemby's Sons Co., Inc.), New York, N. Y. "Sophia." (For Boxes, Packages, or Envelopes Containing Hair Nets.) No. 25,190; Oct. 24.
- Glemby's, S., Sons Co. (See Glemby's, S., Inc.)
- Glemby's, S., Sons Co., Inc., New York, N. Y. "The Iris Hair Net." (For Hair Nets.) No. 24,644; July 4.
- Glemby's, S., Sons Co., Inc., New York, N. Y. "Kismet Hair Net." (For Hair Nets.) No. 24,645; July 4.
- Glemby's, S., Sons Co., Inc., New York, N. Y. "Swanette Hair Net." (For Hair Nets.) No. 24,646; July 4.
- Glemby's, S., Sons Co., Inc., New York, N. Y. "Lola Real Hair Net." (For Hair Nets.) No. 24,915; Aug. 29.
- Glemby's, S., Sons Co., Inc., New York, N. Y. "Audy Hair Net." (For Hair Nets.) No. 24,916; Aug. 29.
- Glemby's, S., Sons Co., Inc., New York, N. Y. "Myro." (For Hair Nets.) No. 24,917; Aug. 29.
- Glemby's, S., Sons Co., Inc., New York, N. Y. "Jean Double Strand Hair Net." (For Hair Nets.) No. 25,002; Sept. 5.
- Glemby's, S., Sons Co., Inc., New York, N. Y. "Pink Lady Hair Net." (For Hair Nets.) No. 25,003; Sept. 5.
- Glemby's, S., Sons Co., Inc., New York, N. Y. "The Tulip Hair Net." (For Hair Nets.) No. 25,004; Sept. 5.
- Glemby's, S., Sons Co., Inc., New York, N. Y. "Moore's Single Strand Hair Net." (For Hair Nets.) No. 25,005; Sept. 5.
- Glemby's, S., Sons Co., Inc., New York, N. Y. "The Symphony Hair Net." (For Hair Nets.) No. 25,006; Sept. 5.
- Glick, Max, Company, The, Cleveland, Ohio. "My Sweetie." (For Candies.) No. 24,340; May 9.
- Glicksman, Fred, Milwaukee, Wis. "Milk-Maid Bread." (For Bread.) No. 24,118; Feb. 21.
- Gold Medal Mayonnaise Co., Yonkers, N. Y. "Mayonnaise." (For a Dressing for Cold Meats, Fish, Vegetables, Sandwiches, and Salads.) No. 25,246; Nov. 7.
- Goldberg, S., & Company, Newark, N. J. "Puncher De Luxe." (For Boxes Containing Cigars.) No. 24,647; July 4.
- Golden Grain Juice Company, Minneapolis, Minn. "Minnehaha E-Z Ready Beverage." (For a Dry Compound for a Nonalcoholic Beverage.) No. 25,069; Oct. 3.
- Goldsmith, Joseph, Jr., Chicago, Ill. "Del Monte." (For Soft Collar Pins.) No. 24,304; May 2.
- Goldsmith, Joseph, Jr., doing business as Goldsmith Manufacturing Co., Providence, R. I. "Sentry Hair Curler." (For Hair Curlers.) No. 25,034; Sept. 12.
- Goldsmith, Joseph, Jr., doing business as Goldsmith Manufacturing Co., Providence, R. I. "Wavo Hair Curler." (For Hair Curlers.) No. 25,035; Sept. 12.
- Goldsmith Manufacturing Co. (See Goldsmith, Joseph, Jr.)
- Good-Grape Company, The, Chattanooga, Tenn. "Good-Grape." (For Carbonated Grape Drink.) No. 25,273; Nov. 14.
- Goodman, A., & Sons, Inc., New York, N. Y. "Goodman's." (For Noodles.) No. 23,899; Jan. 17.
- Goodreau, A. W., Hot Springs, S. D. "Military Foot-Soap." (For Foot Soap.) No. 23,964; Jan. 31.
- Goodrich, J. M., Aberdeen, S. Dak. "South Dakota Seal." (For Cigars.) No. 25,007; Sept. 5.
- Gordon, H., Co., The, Jacksonville, Fla. "Jax-Avana." (For Cigars.) No. 24,007; Feb. 7.
- Gordon-Thorne Co., Utica, N. Y. "Baby Bunting." (For Toilet Powder.) No. 24,065; Feb. 14.
- Gorham Chocolate Company, Inc., Brooklyn, N. Y. "Gorham Pie." (For Candy.) No. 24,509; June 20.
- Gotham Chemical Company, Inc., New York, N. Y. "Celery Phos-fo." (For a Medicinal Preparation named Celery Phos-fo.) No. 24,450; June 6.
- Grand Rapids Dairy Company. (See Menasha Printing and Carton Company, assignor.)
- Grand View Heights Citrus Assn., Terra Bella, Calif. "Grand View." (For Oranges.) No. 24,404; May 30.
- Grand View Heights Citrus Assn., Terra Bella, Calif. "Ultra." (For Oranges.) No. 24,405; May 30.
- Grasselli Chemical Company, Cleveland, Ohio. "Vapocide." (For Insecticides, Fungicides, and Fumigating Materials.) No. 24,581; June 27.
- Graunard, H., Galveston, Tex. "Honey Krust." (For Bread.) No. 24,510; June 20.
- Gray-Richman-Juergens Co., The, Cincinnati, Ohio. "Richman's Straight Cut." (For Cigars.) No. 25,222; Oct. 31.
- Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Canned food products—namely, peas. No. 151,388; Jan. 31.

- Great Northern Fur Dyeing & Dressing Co. (See Pierini, Attilio.)
- Green Bros. Co., Springfield, Mass. "Green's Original Chocolate Covered Raisin Cocoa Nut Cream Bar." (For Carton for Candy.) No. 24,511; June 20.
- Green & Company, Chicago, Ill. "Satisfaction." (For Eggs.) No. 24,648; July 4.
- Green, Dr. L. O., Chicago, Ill. Ointment. No. 151,141; Jan. 24.
- Green & Green Company, The, Dayton, Ohio. "Good Goods." (For Cartons Containing Crackers and Cakes.) No. 24,249; Apr. 25.
- Green & Green Company, The, Dayton, Ohio. "Served as Bread." (For Cartons Containing Crackers.) No. 24,305; May 2.
- Green, William T., Summit, N. J. "Yeast O Depilatory." (For a Depilatory.) No. 24,341; May 9.
- Green, William T., Summit, N. J. "Yeast O Beauty Soap." (For a Toilet Soap.) No. 24,376; May 16.
- Green, William T., doing business as Vernoy Chemical Company, Summit, N. J. "Yeast O Mouth Wash." (For Mouth Wash.) No. 25,153; Oct. 17.
- Greenbaum Bros. Inc., Seaford, Del. "Sundale." (For Tomato Catsup.) No. 23,900; Jan. 17.
- Gregory, Charles J., Philadelphia, Pa. "Permacrease." (For Packages Containing Permacrease, a Celluloid Glue.) No. 24,451; June 6.
- Griburn Co., Inc., The, Philadelphia, Pa. "Grier's Grinding Compound." (For Compounds for Grinding in Bearings.) No. 24,723; July 18.
- Gridley Dairy Company, The. (See Menasha Printing and Carton Company assignors.)
- Grinager, Haavel K., doing business as Northern Woolen Company, Fergus Falls, Minn. "Northern Woolen Company." (For Woolens.) No. 25,191; Oct. 24.
- Grocers Baking Co., Providence, R. I. "Cream Bread." (For Bread.) No. 25,120; Oct. 10.
- Guaranteed Products Company, Sioux Falls, S. D. "Laxo." (For Bottles or Containers of a Natural Laxative Water.) No. 24,066; Feb. 14.
- Gund, George, doing business as Hygienic Coffee Company, Cleveland, Ohio. "Still in the Bean." (For Coffee.) No. 25,420; Dec. 19.
- Gustavo Saliva S. en C., Mayaguez, P. R. "Tinte Oriental." (For a Hair Dye.) No. 25,398; Dec. 5.
- Gutkin, Charles, doing business as Chas. Gutkin Co., New York, N. Y. "Koff-No-Mor." (For Cough Medicine.) No. 25,366; Nov. 28.
- Gutkin, Chas., Co. (See Gutkin, Charles.)
- Guy, George H., Seattle, Wash. "Purex." (For Containers Containing a Medicine—Namely, Mackenzie Regulators.) No. 24,452; June 6.
- H. R. F. Co., San Francisco, Calif. "Lasting Lusto The Perfect Polish." (For Autos, Furniture, Leather, Pianos, Victrolas, Etc., as a Cleaning and Polishing Compound.) No. 24,649; July 4.
- Halcyon Mfg. & Distributing Co., Halcyon, Calif. "Yerba Del Sol Tea of Regeneration." (For Packages of Dried Leaves of the Herb Ephedra Californica.) No. 25,154; Oct. 17.
- Haley-Neely Company, Sioux City, Iowa. "Haley's Selected." (For Fruits.) No. 25,121; Oct. 10.
- Hallberg, Fred, Chicago, Ill. "Bungalow Brand." (For Salad Dressing.) No. 24,748; July 25.
- Halstead Specialties Co., San Francisco, Calif. "Wear-Eez." (For Lubricant.) No. 23,901; Jan. 17.
- Hamilton, John W., Troy, N. Y. "Sun Shine Mist." (For a Composition for Cleaning and Polishing Furniture, Floors, Linoleum, and Other Surfaces.) No. 24,785; Aug. 1.
- Hammermill Paper Company, Erie, Pa. "Hammermill Bond." (For Packages Containing Envelopes.) No. 25,274; Nov. 14.
- Hammermill Paper Company, Erie, Pa. "Hammermill Bond Cabinet." (For the Top of Cabinets Containing Note Paper and Envelopes.) No. 25,275; Nov. 14.
- Hammermill Paper Company, Erie, Pa. "Hammermill Announcements." (For Packages Containing Envelopes.) No. 25,276; Nov. 14.
- Hammermill Paper Company, Erie, Pa. "Hammermill Announcements." (For Packages Containing Sheets.) No. 25,277; Nov. 14.
- Hammermill Paper Company, Erie, Pa. "Hammermill Announcements." (For Packages Containing Cards.) No. 25,278; Nov. 14.
- Hammermill Paper Company, Erie, Pa. "Hammermill Bond Cabinet." (For the End of Cabinets Containing Note Paper and Envelopes.) No. 25,279; Nov. 14.
- Hammermill Paper Company, Erie, Pa. "Hammermill Bond." (For Packages Containing Envelopes.) Nos. 25,280-1; Nov. 14.
- Hammermill Paper Company, Erie, Pa. "Hammermill Bond Monarch." (For Packages Containing Envelopes.) No. 25,282; Nov. 14.
- Hammermill Paper Company, Erie, Pa. "Hammermill Announcements." (For Hammermill Sample Portfolios Containing Samples of Note Paper and Envelopes.) No. 25,421; Dec. 19.
- Hannibal Pharmacal Company, St. Louis, Mo. "Immac." (For a Cream Deodorant and Antiperspirant.) No. 25,283; Nov. 14.
- Hannibal Pharmacal Company, St. Louis, Mo. "Neet." (For a Cream Hair Remover and Depilatory.) No. 25,284; Nov. 14.
- Hansley Mills, New York, N. Y. "Breetex." (For Athletic Underwear.) No. 24,141; Feb. 28.
- Hardy, Lewis W., Chicago, Ill. "Nut Meal Loaf." (For a Loaf of Food Product.) No. 25,192; Oct. 24.
- Hargrave, T. A., Dallas, Tex. "Red Devil Rat And Mouse Embalmer." (For Rat Poison.) No. 25,008; Sept. 5.
- Hargrave, T. A., Dallas, Tex. "Spider Brand Kills All Insect Powder." (For Insect Powder.) No. 25,070; Oct. 3.
- Harriet Hubbard Ayer, New York, N. Y. "Coeur de Violette." (For Toilet Soap.) No. 24,614; July 4.
- Harriet Hubbard Ayer, New York, N. Y. "Depilatory." (For Preparation for Removing Hair.) Nos. 24,615-6; July 4.
- Harriet Hubbard Ayer, New York, N. Y. "Coeur de Violette." (For Toilet Soap.) No. 24,617; July 4.
- Harriet Hubbard Ayer, New York, N. Y. "Brilliantine." (For Hair Preparation.) No. 24,618; July 4.
- Harriet Hubbard Ayer, New York, N. Y. "Complexion Balm." (For a Lotion for Beautifying the Skin.) No. 24,619; July 4.
- Harriet Hubbard Ayer, New York, N. Y. "Princess Charming." (For Perfume, Toilet Water, Face Powder, and Talcum Powder.) No. 24,620; July 4.
- Hartmann, Jane, Bound Brook, N. J. "Home Made Orange Marmalade." (For Orange Marmalade.) No. 24,749; July 25.
- Hartzell, Blanche K., Youngstown, Ohio. "Melto." (For Packages Containing Reducing Cream.) No. 29,918; Aug. 29.
- Hasselbeck Cheese Co., Buffalo, N. Y. "Buffalo Brand." (For Cheese.) No. 24,406; May 30.
- Hatcher, Charles C., doing business as Hatcher Mfg. Co., Chicago, Ill. "Maid-Well." (For Superior White Paste.) No. 24,786; Aug. 1.
- Hatcher Mfg. Co. (See Hatcher, Charles C.)
- Hatters Clearing House, Inc., New York, N. Y. "The Parrot Hat." (For Hatboxes.) No. 25,193; Oct. 24.
- Haughton Elevator & Machine Co., The, Toledo, Ohio. "Haughton." (For Lubricants.) No. 24,582; June 27.
- Havener, Jacob V., Chicago, Ill. "Turkish Egg Shampoo Cream." (For a 4 oz. White Opal Jar Containing Said Cream.) No. 24,198; Mar. 21.
- Hay, H. H., Sons, Portland, Me. "Five Fruit." (For a Fruit Sirup.) No. 24,342; May 9.
- Hay, H. H., Sons, Portland, Me. "Five Fruit." (For a Fruit Sirup.) No. 25,036; Sept. 12.
- Hayes-Meserole Mfg. Co., The, New Haven, Conn. "Nell Brinkley Hair Wavers." (For Hair Wavers.) No. 25,247; Nov. 7.
- Hay's Fruit Juice Co., Portland, Me. "Club Punch." (For a Beverage.) No. 25,037; Sept. 12.
- Hay's Fruit Juice Co., Portland, Me. "Panama Punch." (For a Beverage.) No. 25,038; Sept. 12.
- Hazelwood Ice Cream Co., Portland, Oreg. "Hazelwood Kwality Maid." (For Ice Cream.) No. 25,071; Oct. 3.
- Hearn, James A., & Son Inc., New York, N. Y. "Calcident." (For Tooth Paste.) No. 24,919; Aug. 29.
- Heichelbech, J. Co. (See Heichelbech, J.)
- Heichelbech, J., doing business as J. Heichelbech Co., St. Louis, Mo. "Hico Quality Products Syrups." (For Syrups of Various Flavors for Making a Beverage.) No. 25,122; Oct. 10.
- Heidelberger Confectionery Co., Philadelphia, Pa. "Heidelberger Philymade Sweets." (For Candies.) No. 24,067; Feb. 14.
- Heller, B., & Co., Chicago, Ill. "Ice Cream Maker's Friend." (For Bottles Holding Ice Cream Maker's Friend, a Flavoring Compound.) No. 24,142; Feb. 28.
- Heller, B., & Co., Chicago, Ill. "Bull-Meat-Brand Flour." (For Recipes Containing Bull-Meat-Brand Flour, a Product for Use in All Kinds of Sausage.) No. 24,143; Feb. 28.
- Heller, B., & Co., Chicago, Ill. "Heller's Emulsion." (For Glass Jars Holding Heller's Flavoring Emulsion, a Concentrated Emulsion for Flavoring Purposes.) No. 24,144; Feb. 28.
- Heller, B., & Co., Chicago, Ill. "Ice Cream Maker's Friend Dry Form." (For a Receptacle Containing Ice Cream Maker's Friend Dry Form, a Flavoring Compound in Dry Form.) No. 24,145; Feb. 28.
- Heller, B., & Company, Chicago, Ill. "Heller's Fancy-Pastry Pudding Powder." (For Paper Cartons Containing Heller's Fancy-Pastry Pudding Powders.) No. 24,343; May 9.
- Heller, B., & Company, Chicago, Ill. "Heller's Snow-Drift." (For Containers Holding Heller's Snow-Drift, a Preparation Used for Making a Marshmallow Filling and Topping.) No. 24,344; May 9.
- Heller, B., & Company, Chicago, Ill. "B. Heller & Co's. Zanzibar-Carbon Indelible Ink." (For Glass Bottles Holding B. Heller & Co's. Zanzibar-Carbon Indelible Ink.) No. 24,345; May 9.
- Heller, B., & Company, Chicago, Ill. "B. Heller & Co's. Zanzibar-Carbon Indelible Ink Eradicator." (For Glass Bottles Holding B. Heller & Co's. Zanzibar-Carbon Indelible Ink Eradicator, a Preparation for Removing Indelible Ink Marks and Stains.) No. 24,346; May 9.

Alphabetical list of registrants of labels—Continued.

- Heller, B., & Company, Chicago, Ill. "Zanzibar-Carbon Crystal Laundry Blue." (For Containers Holding Zanzibar Carbon Crystal Laundry Blue, a Blue Used for Laundry Purposes.) No. 24,750; July 25.
- Heller, B., & Company, Chicago, Ill. "Zanzibar-Carbon Non-Sour Blue." For Containers Holding Zanzibar-Carbon Non-Sour Blue, a Blue Used for Laundry Purposes.) No. 24,751; July 25.
- Heller, B., & Company, Chicago, Ill. "Zanzibar-Carbon Combination Laundry Blue." (For Containers Holding Zanzibar-Carbon Combination Laundry Blue, a Blue Used for Laundry Purposes.) No. 24,752; July 25.
- Heller, B., & Company, Chicago, Ill. "1000.00 Guaranteed Contents." (For Cartons for Enclosing a Remedy for the Eradication of Head Lice, Body Lice, Crab Lice, and Other Body Vermin.) No. 24,920; Aug. 29.
- Heller, B., & Company, Chicago, Ill. "1000.00 Guaranteed Silver Polish." (For Cans Containing 1000.00 Guaranteed Silver Polish, a Dry-Powder Polish.) No. 25,921; Aug. 29.
- Heller, B., & Company, Chicago, Ill. "1000.00 Guaranteed Ozo Waste Pipe Opener." (For Receptacles Containing 1000.00 Guaranteed Ozo Waste-Pipe Opener, a Preparation for Opening Stopped-Up Pipes.) No. 24,922; Aug. 29.
- Heller, B., & Company, Chicago, Ill. "1000.00 Guaranteed Golden Gloss Shine." (For Receptacles and Containers Containing a Metal Polish.) No. 25,445; Dec. 26.
- Heller, B., & Company, Chicago, Ill. "1000.00 Guaranteed Window Cleaner." (For Cans, Boxes, or Cases Containing a Powdered Preparation Used for Cleaning Glass.) No. 25,446; Dec. 26.
- Heller, B., & Company, Chicago, Ill. "1000.00 Guaranteed Enamel Cleaner." (For Cans, Cartons, Packages, Boxes, and Cases Containing a Cleaning Powder for Enamel Ware.) No. 25,447; Dec. 26.
- Heller, B., & Company, Chicago, Ill. "1000.00 Guaranteed Moth Killer." (For Cans Containing an Insecticide Preparation for Killing Moths and Carpet Beetles.) No. 25,448; Dec. 26.
- Heller, B., & Company, Chicago, Ill. "Zanzibar-Brand Lem-Ajax." (For Containers Holding a Nonalcoholic Imitation-Lemon Flavoring for Use in Food Products.) No. 25,449; Dec. 26.
- Heller, B., & Company, Chicago, Ill. "1000.00 Guaranteed Flea Killer." (For Receptacles Containing an Insecticide Preparation for Killing Fleas.) No. 25,450; Dec. 26.
- Heller, B., & Company, Chicago, Ill. "Ham-Roll-Ine." (For Packages, Boxes, or Cases Containing a Meat-Curing Preparation Used in Making Prepared Ham or Sausage Rolls.) No. 25,451; Dec. 26.
- Heller, B., & Company, Chicago, Ill. "1000.00 Guaranteed Zanzibar-Brand Fly Chaser." (For Bottles, Cans, Cases, and Cartons Containing an Insecticide Preparation for Repelling Flies from Animals.) No. 25,452; Dec. 26.
- Heller, B., & Company, Chicago, Ill. "Zanzibar Brand Vaniloid." (For Bottles, Cartons, Cases, Kegs, and Barrels Containing a Flavoring Compound for Use in Food Products.) No. 25,453; Dec. 26.
- Heller, B., & Company, Chicago, Ill. "Zanzibar-Brand Oran-Ajax." (For Containers Holding a Nonalcoholic Imitation-Orange Flavoring for Use in Food Products.) No. 25,454; Dec. 26.
- Heller, B., & Company, Chicago, Ill. "Cake-Zest." (For Packages, Boxes, and Cases and Cans Containing a Flavoring and Coloring Compound for Food Products.) No. 25,455; Dec. 26.
- Heller, B., & Company, Chicago, Ill. "Pie-Zest." (For Cans, Packages, Boxes, and Cases Containing a Flavoring Compound Composed of a Combination of Various Spices.) No. 25,456; Dec. 26.
- Heller, B., & Company, Chicago, Ill. "1000.00 Guaranteed Roach Killer." (For Cases and Cartons for Inclosing an Insecticide Preparation for Killing Roaches.) No. 25,457; Dec. 26.
- Heller, B., & Company, Chicago, Ill. "1000.00 Guaranteed Odorless Moth Powder." (For Cans or Cases Containing a Powdered Preparation for Killing Moths.) No. 25,458; Dec. 26.
- Heller, B., & Company, Chicago, Ill. "Savory Jell-Tell." (For Containers and Boxes Containing a Gelatin Preparation for Use in Meat and Other Food Products.) No. 25,459; Dec. 26.
- Heller, B., & Company, Chicago, Ill. "1000.00 Guaranteed Ozo Toilet Cleaner." (For Cans, Boxes, or Cases Containing a Toilet-Bowl or Privy Cleaner.) No. 25,460; Dec. 26.
- Heller, B., & Company, Chicago, Ill. "Heller's Malaboza Brand Yolk-Em Egg-Shade Yellow." (For Cans, Packages, Boxes, or Cases Containing a Dry Form or Liquid Form Food Color.) No. 25,461; Dec. 26.
- Heller, B., & Company, Chicago, Ill. "1000.00 Guaranteed Auto Glo." (For Cans, Cartons, and Cases Containing an Automobile and Wood Polish.) No. 25,462; Dec. 26.
- Heller, B., & Company, Chicago, Ill. "1000.00 Guaranteed Contento Exterminator." (For Bottles or Cans Containing a Specific for Crab Lice, Head Lice, Body Lice, Chiggers, and Itch Mites.) No. 25,463; Dec. 26.
- Henderson, Paul S., doing business as The House of Nuts, Denver, Colo. "The Nut Family." (For Nuts.) No. 24,583; June 27.
- Hendler Creamery Company, The, Baltimore, Md. "The Velvet Kind." (For Containers for Ice Cream.) No. 25,285; Nov. 14.
- Henning Wennersten Incorporated, Chicago, Ill. "'M-H' Wennersten's." (For Malt Extracts.) No. 24,584; June 27.
- Henning Produce Company, Portland, Oreg. "Oregon Brand Milk." (For Evaporated Unsweetened Milk.) No. 24,837; Aug. 8.
- Henrionnet, Leopold. (See Kaufmann, G. P., and Henrionnet.)
- Henry-Brown Co. Inc., Glendale, Calif. "Sierra Club." (For Ginger Ale.) No. 24,488; June 20.
- Henry-Brown Company Inc., Glendale, Calif. "Scotch Mist." (For a Beverage.) No. 24,875; Aug. 15.
- Henschel, A. C., & Co., Chicago, Ill. "James Arlington." (For Cigars.) No. 25,223; Oct. 31.
- Herbert Packing Co. Inc., San Jose, Calif. "Herberts." (For Fruit Salad.) No. 25,337; Nov. 21.
- Herman, Lester E., Buffalo, N. Y. "Kaestner's Balsam." (For Cough Sirup.) No. 24,200; Apr. 4.
- Hess, Charles W., Kansas City, Mo. "Hesskin Lotion for Chappes Sunburns After Shaving, Motorist and Family Use." (For Hesskin Lotion.) No. 23,965; Jan. 31.
- Hickok, C. F., Co., The, Sidney, Ohio. "Chocolate Brittle." (For Candy.) No. 24,201; Apr. 4.
- Hills Bros., San Francisco, Calif. "Hills Bros. Coffee." (For Coffee.) No. 24,787; Aug. 1.
- Hills Brothers Company, The, New York, N. Y. "Dromedary Sliced Candied Peel Citron Orange Lemon." (For Candied Citron, Orange, and Lemon Peel.) No. 25,155; Oct. 17.
- Hires, Charles E., Company, The, Philadelphia, Pa. "Hires Household Extract for Making Ginger Ale at Home." (For Cartons Containing Ginger-Ale Extract.) No. 24,838; Aug. 8.
- Hirsch Bros. & Co. Incorporated, Louisville, Ky. "Paramount." (For Salad Dressing.) No. 24,347; May 9.
- Hirsch, Walter J., Company, Chicago, Ill. "Rarebit Way." (For Cartons Containing Peanut Butter.) No. 24,250; Apr. 25.
- Hirschler & Co. (See Hirschler, Lee M.)
- Hirschler, Lee M., doing business as Hirschler & Co., Cincinnati, Ohio. "Ohio." (For Malt Extract.) No. 24,839; Aug. 8.
- Hirschler, Lee M., doing business as Hirschler & Co., Cincinnati, Ohio. "Great Western." (For Malt Extract.) No. 24,840; Aug. 8.
- Hirschler, Lee M., doing business as Hirschler & Co., Cincinnati, Ohio. "Old Holland." (For Malt Extract.) No. 24,841; Aug. 8.
- Hirschler, Lee M., doing business as Hirschler & Co., Cincinnati, Ohio. "Grape-Ade." (For Grape-Flavored Sirup.) No. 25,009; Sept. 5.
- Hochschild Corporation, Chicago, Ill. "Adoration Flesh Powder Puff." (For Powder Puffs.) No. 23,966; Jan. 31.
- Hochschild Corporation, Chicago, Ill. "De Luxe Tu-Tone." (For Powder Puffs.) No. 24,698; July 11.
- Hochschild Corporation, Chicago, Ill. "'Best-Ever' Sponge Ball." (For a Rubber Ball with Rubber Sponge Center.) No. 24,699; July 11.
- Hochschild Corporation, Chicago, Ill. "De Luxe Vanity." (For Powder Puffs.) No. 24,724; July 18.
- Hochschild Corporation, Chicago, Ill. "Veribest Water Bottle." (For a Rubber Hot-Water Bottle.) No. 25,072; Oct. 3.
- Hoffman, E. A., Candy Co. (See Hoffman, E. A.)
- Hoffman, E. A., Los Angeles, Calif. "Full O' Fruit." (For Candy.) No. 24,251; Apr. 25.
- Hoffman, E. A., doing business as E. A. Hoffman Candy Co., Los Angeles, Calif. "Liquid Cherries." (For Candy.) No. 25,123; Oct. 10.
- Hoffman & Hauck Inc., Woodhaven, N. Y. "H & H." (For Honey.) No. 24,252; Apr. 25.
- Hoffman & Hauck, Inc., Woodhaven, N. Y. "H & H." (For Honey.) No. 25,286; Nov. 14.
- Holcomb & Hoke Manufacturing Co., Indianapolis, Ind. "H & H. Butter-Kist Pop Corn." (For Pop-Corn Cans.) No. 24,923; Aug. 29.
- Holland Bread Co., The. (See Menasha Printing and Carton Company, assignor.)
- Holland Canning Company, Holland, Mich. "Broadcast." (For Sliced Peaches.) No. 25,367; Nov. 28.
- Hollis, Adolph, doing business as Hollis Malt Products Supply, Brooklyn, N. Y. "Owl Brand Malt Sirup." (For Glass Bottles, Cans, Tins, and Any Other Receptacles Containing Said Malt Sirup.) No. 24,924; Aug. 29.
- Hollis Malt Products Supply. (See Hollis, Adolph.)
- Holloway, Dorothea B., Oakland, Calif. "Jeanette's Alpine Health Cheese." (For Goat's-Milk Cheese.) No. 25,422; Dec. 19.
- Holmes Confectionery Company, The. (See Holmes, Harry G.)
- Holmes, Harry G., doing business as The Holmes Confectionery Company, Middletown, Conn. "Holmes Honey Pops." (For Confectionery.) No. 24,725; July 18.

Alphabetical list of registrants of labels—Continued.

- Holstein, Harvey, Inc., Wilmington, Del. "H H Inc." (For Canned Vegetables—Namely, Peas.) No. 25,124; Oct. 10.
- Home Packing & Ice Co., Terre Haute, Ind. "Dependable Brand." (For Cured Meats.) No. 24,146; Feb. 28.
- Hood River Canning Co., Hood River, Oreg. "Columbia Gorge." (For Royal Anne Cherries.) No. 24,068; Feb. 14.
- Hood River Canning Company, Hood River, Oreg. "Mountain Grown." (For Apples.) No. 24,348; May 9.
- Hoppe, Louis H., and William L. Bruggman, St. Paul, Minn. "Ice Pie." (For Ice-Cream Confection.) No. 24,349; May 9.
- Horlick Maltot Products Co., Racine, Wis. "Maltot." (For Packages Containing Biscuits.) No. 24,069; Feb. 14.
- House of Byer, The, Malden, Mass. "Byer Baby Stockings." (For Children's Stockings.) No. 25,073; Oct. 3.
- House of Nuts, The. (See Henderson, Paul S.)
- Hovden, K., Co., Monterey, Calif. "Portola." (For Sardines.) Nos. 24,788-90; Aug. 1.
- Hoye, Stephen M., doing business as Ka-Zu Beverage Co. Inc., New York and Brooklyn, N. Y. "Ka-Zu." (For Extracts, Sirups, and Beverages.) No. 24,925; Aug. 29.
- Hoye, Stephen M., doing business as Ka-Zu Beverage Company, Brooklyn, N. Y. "Brewed (Ka-Zu) Punch." (For Beverages.) No. 25,224; Oct. 31.
- Hoye, Stephen M., doing business as Whisko Punch Co., Brooklyn, N. Y. "Whisk O Punch." (For Beverages.) No. 25,287; Nov. 14.
- Hoye, Stephen R. M., Brooklyn, N. Y. "Mateco." (For Tablets for Tonic.) No. 24,253; Apr. 25.
- Hub Hosiery Mills, Boston, Mass. "Silky Lamb." (For Infants' Hose.) No. 25,125; Oct. 10.
- Hubert, J. W., Eugene, Oreg. "Hubert's Shoe Grease." (For Shoe Grease.) No. 24,512; June 20.
- Hueging, Theodore J., Burlington, Wis. "Flor De Anson." (For Cigars, Cigarettes, and Tobacco.) No. 24,700; July 11.
- Huff, Oliver W., doing business as Dr. Huff's Tooth Powder Co., Hot Springs, Ark. "Dr. Huff's Combination Tooth Powder and Mouth Wash Will Neutralize the Acids and Prevent Fermentation." (For Metal or Other Containers for Tooth Powder.) No. 24,842; Aug. 8.
- Humphrey, W. E., Co., Inc., Tacoma, Wash. "O-Mi Fudge." (For Boxes Containing Candy.) No. 25,248; Nov. 7.
- Humphreys, Earle M., New York, N. Y. "Radio Hair Net." (For a Hair-Net Envelope.) No. 25,288; Nov. 14.
- Hunt Brothers Packing Company, San Francisco, Calif. "Hunts Supreme." (For Canned Peaches.) No. 24,306; May 2.
- Hupfel, Adolph G., jr., New York, N. Y. "Champée Mushroom Paste." (For Packages and Containers Containing Mushroom Paste.) No. 25,423; Dec. 19.
- Hydrox Chemical Co. of Illinois, Chicago, Ill. "Savoly K Y X." (For Nail Polish.) No. 25,010; Sept. 5.
- Hygienic Coffee Company. (See Gund, George.)
- Hygienic Products Company, The, Canton, Ohio. "Saniflush." (For a Powdered Compound for Cleaning Water-Closet Bowls.) No. 25,156; Oct. 17.
- Hynd, A. C., Co., Buffalo, N. Y. "A. C. Hynd's Sweet Almond Cream." (For Bottles and Cartons Containing said Cream.) No. 24,168; Mar. 7.
- Hynd, A. C., Buffalo, N. Y. "A. C. Hynd's Germicide Skin-Ku-Rill." (For Bottles, Cartons, and Packages Containing the Tonic Called by Said Name.) No. 24,202; Apr. 4.
- Hynd, A. C., doing business as A. C. Hynd Co., Buffalo, N. Y. "A. C. Hynd's Hair-She-En." (For Bottles and Cartons and Packages Containing the Product Called by Said Name.) No. 24,876; Aug. 15.
- Hynd, A. C., doing business as A. C. Hynd Co., Buffalo, N. Y. "A. C. Hynd's Hygienic Hair Life." (For Bottles and Cartons and Packages Containing the Product Called by Said Name.) No. 24,877; Aug. 15.
- Icy-Hot Bottle Company, The, Cincinnati, Ohio. "Built for Lifetime Service." (For Heat-Insulated Bottles, Carafes, Jugs, Jars, Pots, Pitchers, and other Containers for Beverages, Liquids, and Solids Used as Food, and on Stands and Holders for Said Containers.) No. 23,967; Jan. 31.
- Ideal Tire and Rubber Company, The, Cleveland, Ohio. "On the Trail of a Good Tire." (For Vehicle Tires, Being Applied to the Boxes or Packages Containing the Same.) No. 24,726; July 18.
- Ilaria Bros., Newark, N. J. "Hex-O-Dine." (For a Preparation for the Treatment of Diseases of Acute, Subacute, and Chronic Gonorrhea, Chronic Cystitis, and Urethritis.) No. 23,867; Jan. 10.
- Ilaria Bros., Newark, N. J. "Rick-A-Tone." (For a Preparation for the Treatment of Tuberculosis. Faulty Development of the Bony Tissues; It is an Effective Nutritive and Tonic Reconstructive.) No. 23,868; Jan. 10.
- Ilaria Brothers, Newark, N. J. "Phosph-O-Dine." (For a Preparation for the Treatment of General Debility, Anemia, Lack of Nervous Tone, Faulty Development of Bony Tissues, and Early Tuberculosis with Advantage.) No. 23,869; Jan. 10.
- Ilaria Brothers, Newark, N. J. "Guai-Co-Dine." (For a Preparation for the Treatment of Tuberculous, Bronchial, Reflex Nervous Coughs, Whooping Cough, Asthma, and Emphysema.) No. 23,870; Jan. 10.
- Imperial Ice Co. (See Menasha Printing and Carton Company, assignor.)
- Imperial Valley Vegetable and Melon Growers Association, Brawley, Calif. "Apex." (For Packages Containing Melons of the Muskmelon Variety, Such as the Cantaloupe Nutmeg.) No. 24,254; Apr. 25.
- Indian Herb & Tonic Root Combination, New Orleans, La. "Indian Root Tea." (For a Medicinal Compound—Namely, Indian Root Tea.) No. 25,039; Sept. 12.
- Indianapolis Abattoir Company, Indianapolis, Ind. "Big Pig." (For Digester Tankage.) No. 24,407; May 30.
- Infanzon & Rodriguez, New York, N. Y., and Mayaguez, P. R. "Infanzon & Rodriguez Porto Rican Planter." (For Cigars.) No. 24,513; June 20.
- Inlander-Steindler Paper Company, Chicago, Ill. "Scotch Belle." (For Toilet Paper.) No. 25,249; Nov. 7.
- International Bath Robe Co., New York, N. Y. "International Bath Robe." (For Bath Robes by Being Attached Thereto and by Being Attached to Bath Boxes and Packages Containing Said Bath Robes.) No. 25,250; Nov. 7.
- International Corn Products Corporation, Detroit, Mich. "Tip Top." (For a Breakfast Food.) No. 24,070; Feb. 14.
- International Corn Products Corporation, Detroit, Mich. "Candy Pops." (For Candied Pop Corn, Fruit, or Nuts.) No. 24,071; Feb. 14.
- International Dairy Co. (See Menasha Printing and Carton Company, assignors.)
- International Printing Company, Indianapolis, Ind. "Victor." (For Underwear and Boxes Containing the Same.) No. 25,126; Oct. 10.
- Internationals, Limited, Chicago, Ill. "The Green Lemon." (For Soap.) No. 24,514; June 20.
- Inventors Merchandizing Service Co., Inc., New York, N. Y. "Add-A-Room for Dolly." (For Toy Living Room and Furniture.) No. 25,127; Oct. 10.
- Invisible Process Co., The, Cleveland, Ohio. "Magic Hours with Chinky Joe." (For an Adhering Wrapper for a Box Containing a Book of Like Title.) No. 24,169; Mar. 7.
- Invisible Process Co., The, Cleveland, Ohio. "The Magic Tale of Peter Rabbit." (For an Adhering Wrapper for a Box Containing a Book of Like Title.) No. 24,170; Mar. 7.
- Invisible Process Co., The, Cleveland, Ohio. "Magic Pictures." (For an Adhering Wrapper for a Box Containing a Book of Like Title.) No. 24,171; Mar. 7.
- Invisible Process Co., The, Cleveland, Ohio. "The Magic Mother Goose." (For an Adhering Wrapper for a Box Containing a Book of Like Title.) No. 24,172; Mar. 7.
- Invisible Process Co., The, Cleveland, Ohio. "Magic Barnyard." (For an Adhering Wrapper for a Box Containing a Book of Like Title.) No. 24,173; Mar. 7.
- Invisible Process Co., The, Cleveland, Ohio. "Magic Circus." (For an Adhering Wrapper for a Box Containing a Book of Like Title.) No. 24,174; Mar. 7.
- Irwin Paper Company, Quincy, Ill. "Buckeye School Series." (For Writing Paper in the Form of Tablets.) No. 25,194; Oct. 24.
- Isle of Wight Water Company, Philadelphia, Pa. "Ilo Water." (For Mineral and Medicinal Waters.) No. 24,217; Apr. 18.
- Italia Bianchi, doing business as Italia Macaroni Company, Worcester, Mass. "Vermicelli." (For Boxes or Other Packages Containing Vermicelli.) No. 24,571; June 27.
- Italia Macaroni Company. (See Italia Bianchi.)
- Jacobs, Oscar E., assignor to Kerr Manufacturing Company, Detroit, Mich. "Bang Bird America's Popular Parlor Game." (For Boxes Containing the Game Apparatus.) No. 24,453; June 6.
- Jameson, Fred, Palmer, Mass. "Jameson's Rheumatic & Neuritis Herb Remedy." (For a Medicine for Rheumatism and Neuritis.) No. 24,454; June 6.
- Jern Food Company, College View, Nebr. "O. K. Eto Crisps." (For Health Wafers.) No. 24,650; July 4.
- Jevne, H., Co., Los Angeles, Calif. "Jevne's Look for the Gingham Package." (For Rolled Oats.) No. 24,519; June 20.
- Jevne, H., Co., Los Angeles, Calif. "Jevne's Gingham." (For Coffee.) No. 24,515; June 20.
- Jevne, H., Co., Los Angeles, Calif. "Jevne's." (For Chocolates.) Nos. 25,011-13; Sept. 5.
- Jevne, H., Co., Los Angeles, Calif. "Jevne's Brown Mill." (For Coffee.) No. 24,516; June 20.
- Jevne, H., Co., Los Angeles, Calif. "Jevne's Look for the Gingham Package." (For Rolled Oats.) No. 24,517; June 20.
- Jevne, H., Company, Los Angeles, Calif. "Jevne's." (For Biscuit Flour.) No. 24,518; June 20.
- Jiffy-Andy Toe Protector Company, Allentown, Pa. "Jiffy-Andy." (For Toe Protecting Devices for Shoes.) No. 24,147; Feb. 28.
- Johnson, Mead & Company, Evansville, Ind. "Dextro Malto No. 1." (For an Infant's Food.) No. 24,265; Apr. 25.

Alphabetical list of registrants of labels—Continued.

- Johnston, Huntington, Yakima, Wash. "Tieton." (For Apples.) No. 24,520; June 20.
- Johnston, R. F., Paint Company, The, Cincinnati, Ohio. "Johnston's Scotch Floor Enamel." (For Cans Containing Floor Enamel.) No. 24,408; May 30.
- Johnston, Robert A., Company, Milwaukee, Wis. "Choice Box." (For Packages of Confectionery.) No. 24,651; July 4.
- Johnston, Robert A., Co., Milwaukee, Wis. "Ye Town Crier." (For Package Confections and Candies.) No. 25,195; Oct. 24.
- Jones, C. Hyland, New York, N. Y. "404 Motor Lax." (For Containers of 404 Motor Lax, a Preparation for Removing Carbon from Internal-Combustion Engines.) No. 24,255; Apr. 25.
- Joyner Drug Company, Spokane, Wash. "Joyner Remedies." (For Pharmaceutical Preparations.) No. 24,256; Apr. 25.
- Jue, David F. & Co., San Francisco, Calif. "Red Triangle." (For Noodles.) No. 24,791; Aug. 1.
- Kadlac, Adolph G., Long Branch, N. J. "Hollywood." (For Mayonnaise.) No. 24,927; Aug. 29.
- Kaempfer's, Inc., Chicago, Ill. "Excelsior Song Improver." (For a Bird Remedy.) No. 24,008; Feb. 7.
- Kaempfer's Incorporated, Chicago, Ill. "Kaempfer's Canary Highball." (For a Bird Food and Tonic.) No. 24,928; Aug. 29.
- Kahaly, Charles, and A. Shagoury, Atlantic City, N. J. "Finest Orange Drink in Atlantic City." (For Orangeade.) No. 25,225; Oct. 31.
- Kahn's, E., Sons Company, The, Cincinnati, Ohio. "Kahn's American Beauty." (For Lard.) No. 25,251; Nov. 7.
- Kahn's, E., Sons Company, The, Cincinnati, Ohio. "Kahn's Diamond K." (For Ham.) No. 25,289; Nov. 14.
- Kahn's, E., Sons Company, The, Cincinnati, Ohio. "Kahn's Diamond K." (For Lard.) No. 25,290; Nov. 14.
- Kahn's, E., Sons Company, The, Cincinnati, Ohio. "Kahn's Diamond K." (For Bacon.) No. 25,291; Nov. 14.
- Kahn's, E., Sons Company, The, Cincinnati, Ohio. "Kahn's Diamond K." (For Frankfurter-Style Sausage.) No. 25,292; Nov. 14.
- Kahn's, E., Sons Company, The, Cincinnati, Ohio. "Kahn's Diamond K." (For Bologna-Style Sausage.) No. 25,293; Nov. 14.
- Kahn's, E., Sons Company, The, Cincinnati, Ohio. "Kahn's Diamond K." (For Sausage.) No. 25,294; Nov. 14.
- Kahn's, E., Sons Company, The, Cincinnati, Ohio. "Kahn's Diamond K." (For Shoulder.) No. 25,295; Nov. 14.
- Kahn's, E., Sons Company, The, Cincinnati, Ohio. "Kahn's Diamond K." (For Lard Compound Made from Pure Lard and Pure Beef Fat.) No. 25,296; Nov. 14.
- Kaplan, L. M., Los Angeles, Calif. "Kaps Vapor Balm." (For a Catarrh Remedy.) No. 25,128; Oct. 10.
- Kaplan, Nathan D., Chicago, Ill. "Don Nieto." (For Cigars.) No. 24,148; Feb. 28.
- Kaplinger, C. R., Co., The. (See Lothrop, Cummings L.)
- Karp, Joseph H., New York, N. Y. "Bleacho." (For Hair Bleach.) No. 24,521; June 20.
- Karp, Joseph H., New York, N. Y. "Bleacho Powder." (For Hair Bleach.) No. 25,368; Nov. 28.
- Kart, Rosen & Stein. (See Menasha Printing and Carton Company, assignor.)
- Katz, Sigmund, New York, N. Y. "The K R Pure Malt Extract." (For Cans Containing Pure Malt Extracts.) No. 25,014; Sept. 5.
- Kaufmann, George P., and L. Henriotton, doing business as Welch Pharmacy, Inc., New Orleans, La. "Hay Fever Remedy." (For a Medicinal Compound.) No. 25,338; Nov. 21.
- Kay & Ess Chemical Company, Inc., New York, N. Y. "Magico." (For Packages or Cartons Containing an Insect Exterminator.) No. 24,119; Feb. 21.
- Ka-Zu Beverage Co. Inc. (See Hoyer, Stephen M.)
- Ka-Zu Beverage Company. (See Hoyer, Stephen M.)
- Kean, Otis, and Albert R. Wilson, New York, N. Y. "Paperbrella." (For Umbrellas.) No. 23,902; Jan. 17.
- Kehlour Flour Mills Co., St. Louis, Mo. "Kelcomel." (For a Food.) No. 24,701; July 11.
- Kellogg Sugar Products Co., Lima, Ohio. "Mon Cheri." (For Candy.) No. 24,072; Feb. 14.
- Kellogg Toasted Corn Flake Co., Battle Creek, Mich. "Kellogg's Shredded Whole Wheat Biscuit." (For a Food Specifically Known as Kellogg's Shredded Whole Wheat Biscuit.) No. 25,015; Sept. 5.
- Kemp Bros. Packing Co., Frankfort, Ind. "Vitamine Tomatoes." (For Canned Tomatoes.) No. 24,727; July 18.
- Kempf, Stephen S., Chicago, Ill. "El Perfection." (For Cigars.) No. 24,073; Feb. 14.
- Kendall Products Corporation, New York, N. Y. "Ken." (For Soap.) No. 24,409; May 30.
- Kendall Products Corporation, New York, N. Y. "Graino." (For Soap.) No. 24,728; July 18.
- Kendall Products Corporation, New York, N. Y. "Korex." (For Soap.) No. 24,729; July 18.
- Kendall Products Corporation, New York, N. Y. "Kendene." (For Soap.) No. 24,730; July 18.
- Keregeannes, Stephen K., Milwaukee, Wis. "Eau De Quinine." (For Bottles Containing Compound Hair Tonic.) No. 25,074; Oct. 3.
- Kern, George, Inc., New York, N. Y. "Kern's Sliced Bacon." (For Sliced Bacon.) No. 24,843; Aug. 8.
- Kern, George, Inc., New York, N. Y. "Kern's Sugar Cured Sliced Bacon." (For Sliced Bacon.) No. 24,929; Aug. 29.
- Kerr Manufacturing Company. (See Jacobs, Oscar E., assignor.)
- King Coffee Company, The, Indianapolis, Ind. "King Kwalty Koffee." (For Coffee.) No. 24,307; May 2.
- Kingman, Russell B., assignor to The Chore-Utensils Corporation of America, Orange, N. J. "The Chore Boy—243 Uses." (For Scouring Cloths.) No. 24,522; June 20.
- King's Food Products Company, Portland, Ore. "King's." (For Dehydrated Loganberries.) No. 25,129; Oct. 10.
- King's Food Products Company, Portland, Ore. "King's." (For Royal Anne Cherries.) No. 25,297; Nov. 14.
- King's Food Products Company, Portland, Ore. "Crater Blue." (For Royal Anne Cherries.) No. 25,298; Nov. 14.
- King's Food Products Company, Portland, Ore. "Chief Mauna." (For Loganberries.) No. 25,299; Nov. 14.
- King's Food Products Company, Portland, Ore. "Chief Shoshone." (For Apples.) No. 25,300; Nov. 14.
- King's Food Products Company, Portland, Ore. "Chief Umpqua." (For Royal Anne Cherries.) No. 25,301; Nov. 14.
- King's Food Products Company, Portland, Ore. "Chief Snomas." (For Royal Anne Cherries.) No. 25,302; Nov. 14.
- Kirby-Cogeshall Co., Milwaukee, Wis. "The New A Puzzle." (For Packages Containing Letter Puzzles.) No. 24,257; Apr. 25.
- Kirby-Cogeshall Co., Milwaukee, Wis. "The New B Puzzle." (For Packages Containing Letter Puzzles.) No. 24,258; Apr. 25.
- Kirby-Cogeshall Co., Milwaukee, Wis. "The New H Puzzle." (For Packages Containing Letter Puzzles.) No. 24,259; Apr. 25.
- Kirby-Cogeshall Co., Milwaukee, Wis. "The New F Puzzle." (For Packages Containing Letter Puzzles.) No. 24,260; Apr. 25.
- Kirby-Cogeshall Co., Milwaukee, Wis. "The New K Puzzle." (For Packages Containing Letter Puzzles.) No. 24,261; Apr. 25.
- Kirby-Cogeshall Co., Milwaukee, Wis. "The Great T Puzzle." (For Packages Containing Letter Puzzles.) No. 24,350; May 9.
- Kirby, R. K. (See Barber, F. P., and Kirby.)
- Kirk, Frank, Jacksonville, Ill. "Kirk's Quick Relief." (For Salve.) No. 25,075; Oct. 3.
- Kirk, James S., & Company, Chicago, Ill. "Kirk's Novelty Soap Doll." (For Soap.) No. 24,262; Apr. 25.
- Kirschbraun & Sons, Inc. (See Menasha Printing and Carton Company, assignor.)
- Kling Bros. & Co., Inc., Chicago, Ill. "Durable as Grandma's Knitting." (For Sweaters.) No. 24,308; May 2.
- Klukes, Mrs. Henry E., Milwaukee, Wis. "Asperina." (For Bottles Containing Hair Tonic.) No. 23,968; Jan. 31.
- Knickerbocker Chocolate Company, West Hoboken, N. J., and New York, N. Y. "Sweet Milk Chocolate." (For Sweet-Milk Chocolate.) No. 24,120; Feb. 21.
- Knight, Clarence A., Medford, Ore. "Rogue River Valley Fruit Crater Lake Brand." (For Packages Containing Fresh Deciduous Fruits.) No. 24,753; July 25.
- Knowles, J. C., Monticello, Calif. "Rancho Leñoso." (For Fresh Pears.) No. 25,157; Oct. 17.
- Koffee-O Cereal Co., Tacoma, Wash. "Koffee-O." (For a Cereal Food Drink.) No. 25,016; Sept. 5.
- Kohara, R., & Company, Portland, Ore. "Are You Married?" (For Claws Attached to Long Handles and Used as Back Scratchers.) No. 25,303; Nov. 14.
- Kohn, Ad., doing business as Bon-Ton Bakery, Austin, Tex. "Bon Ton." (For Bread.) No. 25,017; Sept. 5.
- Kolbe, Paul, Detroit, Mich. "Pee-Kay." (For a Sirup for Making Soft Drinks.) No. 24,523; June 20.
- Kothlow, G. H. (See Menasha Printing and Carton Company, assignor.)
- Kotzin, Theodore, Los Angeles, Calif. "Hardware." (For Clothing.) No. 24,792; Aug. 1.
- Krank, A. J., Mfg. Company, St. Paul, Minn. "Lemon." (For Containers Containing a Cleansing Cream.) No. 25,369; Nov. 28.
- Krank, Alfred J., St. Paul, Minn. "Krank's Hair-Root-Oil and Lemon Shampoo." (For Boxes Containing a Hair Shampoo and a Hair Dressing.) No. 23,903; Jan. 17.
- Krank, Alfred J., St. Paul, Minn. "Krank's Skin-Health Face Powder." (For Boxes Containing Face Powder.) No. 24,074; Feb. 14.
- Krank, Alfred J., doing business as A. J. Krank Manufacturing Company, St. Paul, Minn. "Soak-In." (For Containers Containing Liniment.) Nos. 24,793-4; Aug. 1.
- Krasnow, R., & Sons, Inc., Pittsburgh, Pa., and Fresno, Calif. "Iris." (For Cantaloupes.) No. 24,845; Aug. 8.
- Krasnow, R., & Sons, Inc., Pittsburgh, Pa., and Fresno, Calif. "Always Best." (For Oranges.) No. 24,846; Aug. 8.
- Krasnow, R., & Sons, Inc., Pittsburgh, Pa., and Fresno, Calif. "Orchid." (For Grapes.) No. 24,847; Aug. 8.

- Krasnow, R., & Sons, Inc., Pittsburgh, Pa., and Fresno, Calif. "4 Most." (For Oranges.) No. 24,848; Aug. 8.
- Krasnow, R., & Sons, Inc., Pittsburgh, Pa., and Fresno, Calif. "Iris." (For Fresh Grapes.) No. 24,849; Aug. 8.
- Kresge, S. S., Co., Detroit, Mich. "One For Five 1-4-5." (For Hair Nets.) No. 25,304; Nov. 14.
- Kretschman, L. J., & Co. (See Kretschman, L. J.)
- Kretschman, L. J., doing business as L. J. Kretschman & Co., Tacoma, Wash. "Kla-Ta-Wa Kleaner." (For a Soft Soap Vegetable Compound for Cleaning Rugs, Carpets, Painted Surfaces, Shoes, Windows, Automobiles, and for Removing Stains and Spots from Clothing.) No. 25,040; Sept. 12.
- Kroeze, Nicholas V., Paterson, N. J. "Have One on Me." (For Malt Extract.) No. 24,263; Apr. 25.
- Kroger Grocery and Baking Co., The, Cincinnati, Ohio. "Avondale." (For Canned Peas.) No. 24,009; Feb. 7.
- Kroger Grocery & Baking Co., The, Cincinnati, Ohio. "French Brand." (For Coffee.) No. 24,010; Feb. 7.
- Kroger Grocery & Baking Co., The, Cincinnati, Ohio. "Country Club." (For Cans Containing Red Kidney Beans.) No. 24,176; Mar. 7.
- Kuntzmann, Henry H., St. Louis, Mo. "H H K Egg Shampoo." (For a Shampoo for the Hair and Scalp.) No. 23,904; Jan. 17.
- L. & R. Company, The, Providence, R. I. "Longwear Laces." (For Laces.) No. 25,158; Oct. 17.
- Laboratory Products Company, The, Cleveland, Ohio. "S M A A Food To Keep Babies Well." (For Artificial Foods or Milk.) No. 25,242; Dec. 19.
- Laird Manufacturing Co. Inc., The, Richmond, Va. "Richmond Maid." (For Baking Powder.) No. 24,754; July 25.
- Lake Yale Orange Company, Gainesville, Fla. "Orange Blossom Marmalade." (For Orange Marmalade.) No. 24,930; Aug. 29.
- Lambert, L., New York, N. Y. "Egg Tonic." (For Egg Tonic.) No. 24,218; Apr. 18.
- Landford, Phillips J., Frostproof, Fla. "No Joke." (For Oranges.) No. 24,075; Feb. 14.
- Landman, Robin, Milwaukee, Wis. "Royal Juliet." (For Cigars.) No. 24,524; June 20.
- Lansing Dairy Company. (See Menasha Printing and Carton Company, assignor.)
- Lantz Bros. Baking Co., St. Louis, Mo. "Grandma's Cake." (For Cake.) No. 24,011; Feb. 7.
- Lantz Bros. Baking Co., St. Louis, Mo. "Prepared Mustard." (For Prepared Mustard.) No. 24,012; Feb. 7.
- Lantz Bros. Baking Co., St. Louis, Mo. "Grandma's Cake." (For Cake.) No. 24,076; Feb. 14.
- Lantz Bros. B. Co., St. Louis, Mo. "Horse-Radish Mustard." (For Horse-Radish Mustard.) No. 24,077; Feb. 14.
- Lantz Bros. B. Co., St. Louis, Mo. "Horse-Radish." (For Horse-Radish.) No. 24,078; Feb. 14.
- Lapres, Theo. J., Inc., Atlantic City, N. J. "Fralinger's Original Salt Water Taffy." (For Boxes Containing Salt-Water Taffy.) No. 24,931; Aug. 29.
- Lapres, Theo. J., Inc., Atlantic City, N. J. "Lapres' Midget Salt Water Gems." (For Boxes Containing Miniature Salt-Water Taffy.) No. 24,932; Aug. 29.
- Lapres, Theo. J., Inc., Atlantic City, N. J. "Fralinger's." (For an Outer Wrapper on Boxes Containing Salt-Water Taffy.) No. 25,425; Dec. 19.
- Lazarowitz and Company Inc., Woodlawn, Pa. "Long Life Water." (For Mineral Spring Water.) No. 24,193; Mar. 14.
- Lee Exporting & Importing Co. Inc., New York, N. Y. "Fancy Decorative Incandescent Lamps." (For Electrically-Lighted Christmas-Tree Ornaments.) No. 25,076; Oct. 3.
- Leiber, Max, & Company, Denora, Pa. "Esquimo Pop." (For Bottles Containing a Nonalcoholic Beverage.) No. 24,149; Feb. 28.
- Leonard, John N., Bennington, Vt. "Bennington Brand." (For Flour.) No. 24,203; Apr. 4.
- Leon's Inc., Omaha, Nebr. "Haberdasher." (For Men's and Boys' Hats and Caps of All Kinds.) No. 25,077; Oct. 3.
- Levy, A., & J. Zentner Company, San Francisco, Calif. "Lucky Seller 'I Love You California'." (For Rhubarb.) No. 24,795; Aug. 1.
- Lewis, H. & W. H., Inc., Philadelphia, Pa. "Brook-Knit." (For Pure-Wool Knit Cloth.) No. 24,850; Aug. 8.
- Liberty Paper Co., New York, N. Y. "Handy Andy." (For Sealing Tape.) No. 24,878; Aug. 15.
- Lincoln Chemical Company, Minneapolis, Minn. "Spick-an-brite No. 2 Brite Polish." (For a Polish for Varished or Enameled Surfaces.) No. 24,079; Feb. 14.
- Lincoln Chemical Company, Minneapolis, Minn. "Spick-an-brite No. 1 Spik Cleaner." (For a Cleaner for Varished or Enameled Surfaces.) No. 24,080; Feb. 14.
- Lindsborg Milling & Elevator Company, The, Lindsborg, Kans. "Safety First." (For Kansas Hard Wheat Flour.) No. 24,309; May 2.
- Linton and Company, Chicago, Ill. "Heron Crepe Tissue." (For Toilet-Paper Rolls.) No. 24,933; Aug. 29.
- Linton and Company, Chicago, Ill. "Yap Crepe Tissue." (For Toilet-Paper Rolls.) No. 24,934; Aug. 29.
- Lips Specialty Candy Co. (See Lipschultz, Louis L.)
- Lipschultz, Louis L., doing business as Lips Specialty Candy Co., Chicago, Ill. "Hott Doggs." (For a Confection.) No. 25,226; Oct. 31.
- Litchfield Creamery Co. (See Menasha Printing and Carton Company, assignor.)
- Litit Co., The. (See Shoenberg, Milton H.)
- Lockett, Benjamin, Brooklyn, N. Y. "New Ideal." (For Cigars.) No. 24,796; Aug. 1.
- Loewi, Hugo V., Inc. (See Ray, A. J., & Son, Inc.)
- Loffler, A., Provision Co., Benning, D. C. "Loffler's Frankfurt Sausage." (For Sausage.) No. 25,078; Oct. 3.
- Loft, Inc., New York, N. Y. "Paradise Chocolates and Bon Bons." (For Candies.) No. 23,905; Jan. 17.
- Lothrop, Cummings L., doing business as The C. R. Kaping Co., Springfield, Mass. "The Arnold Drill Charts." (For Drill Charts for Teaching Arithmetical Problems—namely, Addition, Subtraction, Multiplication, Division, Fractions, Decimals, and Business Equivalents.) No. 25,130; Oct. 10.
- Lotterhos & Huber Company, Crystal Springs, Miss. "Blue Flag Brand Tomatoes." (For Fresh Tomatoes.) No. 25,131; Oct. 10.
- Louisville Coffee Company, The, Louisville, Ky. "Bed Rock." (For Coffee.) No. 24,797; Aug. 1.
- Louisville Coffee Company, The, Louisville, Ky. "Big Six." (For Coffee.) No. 24,851; Aug. 8.
- Louisville Coffee Company, The, Louisville, Ky. "Big Ben." (For Coffee.) No. 24,852; Aug. 8.
- Louisville Coffee Company, Louisville, Ky. "Freckles." (For Popped-Corn and Nut Confection.) No. 24,935; Aug. 29.
- Loveless, Samuel E., Chicago, Ill. "Bamby Bread." (For Bread.) No. 25,305; Nov. 14.
- Lovell-Buffington Tobacco Co., Covington, Ky. "Kentucky Club Smoking Mixture." (For Smoking Tobacco.) No. 24,853; Aug. 8.
- Lovell-Buffington Tobacco Co., Covington, Ky. "Crest High Grade Granulated Cut Plug Smoking." (For Smoking Tobacco.) No. 24,854; Aug. 8.
- Lovell-Buffington Tobacco Co., Covington, Ky. "C. B. High Grade Smoking Mixture." (For Smoking Tobacco.) No. 24,936; Aug. 29.
- Lucy Bowels Co. (See Nye, Win.)
- Luden, Wm. H., Inc., Reading, Pa. "Luden's Spearmint Leaves." (For Candy Confections.) No. 24,585; June 27.
- Luden, Wm. H., Inc., Reading, Pa. "Luden's Fruit Candies." (For Candies.) No. 25,132; Oct. 10.
- Ludlow Manufacturing Association, Boston, Mass. "Ludlow Twine." (For Boxes Containing Balls of Twine.) No. 24,081; Feb. 14.
- Lustre Chemical Company, The, Cleveland, Ohio. "Lustre Soap." (For Soap.) No. 25,041; Sept. 12.
- M-B Ice Cream Company. (See Menasha Printing and Carton Company, assignor.)
- Macbeth-Evans Glass Company, Pittsburgh, Pa. "Crescent Nu-Type Chimney." (For Boxes Containing Chimneys.) No. 25,042; Sept. 12.
- Macbeth-Evans Glass Company, Pittsburgh, Pa. "Macbeth Pearl Glass Nu-Type Chimney." (For Boxes Containing Chimneys.) No. 25,043; Sept. 12.
- Macleay Estate Co., The, Portland, Oreg. "Crown." (For Salmon.) No. 24,702; July 11.
- Macleay Estate Co., The, Portland, Oreg. "Royal." (For Salmon.) No. 24,703; July 11.
- Madden's Pharmacy, Jacksonville, Fla. "Magic Medicine." (For Preparation for Kidney, Liver, Bladder, Rheumatism, Blood Impurities, Catarrh, and Asthma.) No. 24,204; Apr. 4.
- Madden's Pharmacy, Jacksonville, Fla. "Madden's Pick-Me-Up Tonic." (For Bottles Containing a Tonic.) No. 24,455; June 6.
- Madden's Pharmacy, Jacksonville, Fla. "Madden's Creopine Cough Sirup." (For Cough Sirup.) No. 24,525; June 20.
- Madsen, George, Chicago, Ill. "Danish Butter." (For Creamery Butter Imported from Denmark.) No. 24,082; Feb. 14.
- Mahon, Edward F., Brooklyn, N. Y. "Mahon's Virgin Fruit Juices." (For Bottles, Cans, or Barrels Containing Virgin Pure Juices of Natural Fruits.) No. 25,306; Nov. 14.
- Mahoney, T. S., sr., Chicago, Ill. "Cherokee Liquid Metal Polish." (For Liquid Metal Polish.) No. 25,339; Nov. 21.
- Mammoth Hosiery Mills, Philadelphia, Pa. "Numaid." (For Hosiery.) No. 24,798; Aug. 1.
- Manco Mills. (See Mandel, Max, and Cohen.)
- Mandel, Max, and Isidor H. Cohen, doing business as Mandel & Cohen, and as Manco Mills, New York, N. Y. "Spick and Span." (For Underwear.) No. 25,370; Nov. 28.
- Mandel & Cohen. (See Mandel, Max, and Cohen.)
- Mann, Arthur M., New York, N. Y. "My-T-Klean Metal Cleaner." (For Metal Polish.) No. 24,150; Feb. 28.
- Mann, Arthur M., New York, N. Y. "My-T-Klean Washing Compound." (For Washing Powder.) No. 24,177; Mar. 7.
- Margosian, John H., Milford, Mass. "Amasia." (For a Medicinal Preparation Aimed to Overcome the Unnatural Discharge of the Mucous Membranes.) No. 24,083; Feb. 14.

Alphabetical list of registrants of labels—Continued.

- Marietta Cigar Company, Marietta, Ohio. "Mild-O." (For Stogies and Cigars.) No. 24,152; Feb. 28.
- Marre, E., & Bro., Oakland, Calif. "Marre." (For Canned Shrimp.) No. 25,371; Nov. 28.
- Marsh, Caroline F., Portland, Me. "I*S*I*S." (For a New Preparation for Washing and Healing Bleeding Gums and as a Mouth Wash.) No. 24,827; Aug. 8.
- Marsh, Edward, Washington, D. C. "Tilt." (For a Game for Children.) No. 24,937; Aug. 29.
- Marsh, M., & Son, Inc., Wheeling, W. Va. "Marsh Big Havana Wheeling." (For Stogies.) No. 24,526; June 20.
- Marshall, Blaine M., New Albany, Ind. "Marshall's Blue Fountain Pen Ink." (For Packages of Blue Ink.) No. 24,704; July 11.
- Mar-Son Medicine Co., St. Louis, Mo. "Pyrolac Pyorrhea Remedy." (For Tooth Paste.) No. 25,018; Sept. 5.
- Martin, J. A. (See Whiting, F. T., and Martin.)
- Martorelli, Raffaele, New York, N. Y. "Caruso." (For Olive Oil.) No. 24,310; May 2.
- Massachusetts Baking Company, Hartford, Conn., and Springfield, Mass. "White Rose." (For Bread.) No. 24,879; Aug. 15.
- Master Craft Publishing Company, Chicago, Ill. "A Box Of Write-Your-Own Greetings." (For a Box Containing Ten Blank Christmas Greeting Cards and a Book of Copyrighted Verses.) No. 25,426; Dec. 19.
- Matthaei Baking Co., Tacoma, Wash. "Sweetandgood." (For Cookies.) No. 24,410; May 30.
- Matthews, Geo. T., & Co., New York, N. Y. "Matthews' Old Faithful Tea." (For Cartons for Containing Teas of Various Kinds.) No. 24,264; Apr. 25.
- Mavis Products Co., New York, N. Y. "Mavis Malt Extract." (For Malt Extract.) No. 25,340; Nov. 21.
- May Hosiery Mills, The, Burlington, N. C. "B. V. May." (For Hosiery.) No. 23,906; Jan. 17.
- Mayer, Emil, Richmond Hill, N. Y. "Mayer's Constipation Extremator." (For a Preparation of Medicine, Composed of Equal Parts of Onion, Cloves, and Lemon Juice for the Cure of Constipation.) No. 25,079; Oct. 3.
- McArthur, John W., doing business under the name of Scientific Oil Service, Minneapolis, Minn. "Shur Oylus." (For Oils and Greases.) No. 24,527; June 20.
- McGraw Manufacturing Company, McGraw, N. Y. "Butterfly Brand The Lace Beautiful Package De Luxe." (For Shoe Laces.) No. 23,907; Jan. 17.
- McGuigan, Peter, & Sons, Red Lion, Pa. "Beech-Nut." (For Cigars.) No. 24,151; Feb. 28.
- McHarg, Sidney, Calexico, Calif. "Champagne." (For Cantaloupes.) No. 24,938; Aug. 29.
- McKee-Marks Cigar Co., Ottumwa, Iowa. "Yellow Cab." (For Cigars.) No. 24,939; Aug. 29.
- McKeluge, Thomas F., Janesville, Wis. "Grand Duke." (For Cigars.) No. 24,013; Feb. 7.
- McPherson, Wallis D., Mono Lake, Calif. "Salts of Mono." (For a Medicinal Salt.) No. 25,427; Dec. 19.
- McQuay-Norris Mfg. Co. of Indiana, Inc., Connersville, Ind. "Wainwright Pistons." (For Pistons.) No. 24,411; May 30.
- McQuay-Norris Mfg. Co. of Indiana, Inc., Connersville, Ind. "Wainwright Piston Pins." (For Piston Pins.) No. 24,412; May 30.
- McQuay-Norris Mfg. Co. of Indiana, Inc., Connersville, Ind. "Wainwright Pistons." (For Pistons.) No. 25,019; Sept. 5.
- McVicker, H. B., South Bend, Ind. "Key West Tobacco Co's. Havana Cigar Clippings." (For Pouches of Chewing and Smoking Tobacco.) No. 23,969; Jan. 31.
- Mead Johnson & Co., Evansville, Ind. "Dexter Malto No. 3." (For Infants' Food.) No. 24,755; July 25.
- Meier & Frank Co., Portland, Oreg. "Sweetness in every Box." (For Candy.) No. 24,799; Aug. 1.
- Mella Cigar Factory. (See Bauhofer, John, assignor.)
- Melzer, Mary T., Amsterdam, N. Y. "Melzer-Naise Mayonnaise Salad Dressing." (For Salad Dressing.) No. 25,464; Dec. 26.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to The Montauk Ice Cream Company, Norfolk, Va. "Montauk." (For Cartons Containing Ice Cream.) No. 23,908; Jan. 17.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to The Holland Bread Company, Columbus, Ohio. "Holland's Potato Bread." (For Wax Paper Wrappers Containing Bread.) No. 23,909; Jan. 17.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to The Holland Bread Company, Columbus, Ohio. "Holland's Kream Bread." (For Wax Paper Wrappers Containing Bread.) No. 23,910; Jan. 17.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to The Holland Bread Company, Columbus, Ohio. "Holland's Butter-Krust." (For Wax Paper Wrappers Containing Bread.) No. 23,911; Jan. 17.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Wray Brothers Creamery, Crawfordsville, Ind. "Ben-Hur." (For Cartons Containing Butter.) No. 23,912; Jan. 17.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Puritan Ice Cream Company, Newark, N. J. "Puritan." (For Cartons Containing Ice Cream.) No. 23,913; Jan. 17.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Al's Bake Shop, Chicago, Ill. "Golden Harvest." (For Bread Wrappers.) No. 23,970; Jan. 31.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Al's Bake Shop, Chicago, Ill. "Mity-Nice." (For Bread Wrappers.) No. 23,971; Jan. 31.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Sidebottom Pure Ice Cream & Dairy Company, Nashville, Tenn. "Sidebottom's Brick Ice Cream." (For Cartons Containing Ice Cream.) No. 23,972; Jan. 31.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to International Dairy Co., Chicago, Ill. "Sanapure." (For Cartons Containing Butter.) No. 24,084; Feb. 14.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Grand Rapids Dairy Company, Grand Rapids, Mich. "Superior Brand." (For Cartons Containing Butter.) No. 24,194; Mar. 14.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to The Dixie Ice Cream Co., Lexington, Ky. "Dixie Ice Cream." (For Cartons Containing Ice Cream.) No. 24,205; Apr. 4.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Valley Butter Company, Pittsburgh, Pa. "Golden West." (For Cartons Containing Butter.) No. 24,351; May 9.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Valley Butter Company, Pittsburgh, Pa. "Red Seal." (For Cartons Containing Butter.) No. 24,352; May 9.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to The Gridley Dairy Company, Milwaukee, Wis. "Gridley's." (For Cartons Containing Butter.) No. 24,456; June 6.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Kart, Rosen & Stein, Pittsburgh, Pa. "Brook-Side." (For Cartons Containing Butter.) No. 24,457; June 6.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Seattle Ice Cream Company, Seattle, Wash. "Seattle Ice Cream." (For Cartons Containing Ice Cream.) No. 24,458; June 6.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to The Purity Cream Cheese Company, Cleveland, Ohio. "Edelweiss." (For Cartons Containing Butter.) No. 24,459; June 6.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Eau Claire Baking Co., Eau Claire, Wis. "Old Home Bread." (For Wax-Paper Bread Wrappers.) No. 24,528; June 20.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to The Davis Company, Newark, Ohio. "Davis." (For Cartons Containing Butter.) No. 24,800; Aug. 1.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Carlton County Creamery Co., Barnum, Minn. "Barnum's Sweet Made." (For Cartons Containing Butter.) No. 24,801; Aug. 1.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to The Wells-Chief Creamery Co., Crestline, Ohio. "C. O. Wells Country Club Brand." (For Cartons Containing Butter.) No. 24,940; Aug. 29.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Climax Dairy Co., Denver, Colo. "Climax." (For Cartons Containing Ice Cream.) No. 24,941; Aug. 29.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Michigan Butter & Egg Co., Lansing, Mich. "Palmas Altas Golden Sheaf." (For Cartons Containing Butter.) No. 24,942; Aug. 29.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Litchfield Creamery Co., Litchfield, Ill. "Red Seal." (For Cartons Containing Butter.) No. 25,159; Oct. 17.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Kirschbraun & Sons, Inc., Omaha, Nebr. "Valley Grove." (For Cartons Containing Butter.) No. 25,160; Oct. 17.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Gateway Creamery Co., Joplin, Mo. "Gateway Brand." (For Cartons Containing Butter.) No. 25,161; Oct. 17.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Fraser Valley Dairies, Ltd., Vancouver, British Columbia, Canada. "Certainteed." (For Cartons Containing Butter.) No. 25,162; Oct. 17.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to National Ice Cream Co., San Francisco, Calif. "Ultra." (For Cartons Containing Ice Cream.) No. 25,163; Oct. 17.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Caro Creamery, E. J. Riley, proprietor, Caro, Mich. "Luxury." (For Cartons Containing Butter.) No. 25,164; Oct. 17.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Pittsburgh Ice Cream Co., Pittsburgh, Pa. "The Cream of Pittsburgh." (For Cartons Containing Ice Cream.) No. 25,165; Oct. 17.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to M-B Ice Cream Company, Waco, Tex. "M-B." (For Cartons Containing Ice Cream.) No. 25,166; Oct. 17.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Babcock's Dairy Co., Port Huron, Mich. "Riverdale." (For Cartons Containing Butter.) No. 25,167; Oct. 17.

Alphabetical list of registrants of labels—Continued.

- Menasha Printing and Carton Company, Menasha, Wis., assignor to Noaker Ice Cream Co., Canton, Ohio. "Noaker's Velvet Ice Cream." (For Cartons Containing Ice Cream.) No. 25,168; Oct. 17.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to The Wells-Chief Creamery Co., Upper Sandusky, Ohio. "Chief Brand." (For Cartons Containing Butter.) No. 25,169; Oct. 17.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Imperial Ice Co., Ocean Park, Calif. "Imperial." (For Cartons Containing Ice Cream.) No. 25,170; Oct. 17.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to The Meriden Creamery Co., Kansas City, Mo. "Blue Ribbon." (For Cartons Containing Butter.) No. 25,171; Oct. 17.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Stevens Point Dairy Products Co., Stevens Point, Wis. "Cloverland Creamery Butter." (For Cartons Containing Butter.) No. 25,172; Oct. 17.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to The Mowry Creamery Co., Colorado Springs, Colo. "Good Butter." (For Cartons Containing Butter.) No. 25,196; Oct. 24.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to J. C. Vander Bie, St. Paul, Minn. "Vander Bie's." (For Cartons Containing Ice Cream.) No. 25,227; Oct. 31.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Lansing Dairy Company, Lansing, Mich. "Creamery Sunbeam Butter." (For Cartons Containing Butter.) No. 25,252; Nov. 7.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to G. H. Kothlow, Edgerton, Wis. "Maple Leaf." (For Cartons for Butter.) No. 25,307; Nov. 14.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Cottage Creamery Co., Cleveland, Ohio. "Cottage Creamery Butter." (For Cartons for Butter.) No. 25,341; Nov. 21.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to The Holland Bread Co., Columbus, Ohio. "Club Bread." (For Wax-Paper Bread Wrappers.) No. 25,372; Nov. 28.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to The Holland Bread Co., Columbus, Ohio. "Sandwich Bread." (For Wax-Paper Bread Wrappers.) No. 25,373; Nov. 28.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to The Holland Bread Co., Columbus, Ohio. "Rye Bread." (For Wax-Paper Bread Wrappers.) No. 25,374; Nov. 28.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to The Holland Bread Co., Columbus, Ohio. "Hearth Bread." (For Wax-Paper Bread Wrappers.) No. 25,375; Nov. 28.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to The Holland Bread Co., Columbus, Ohio. "Vienna Bread." (For Wax-Paper Bread Wrappers.) No. 25,376; Nov. 28.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to The Holland Bread Co., Columbus, Ohio. "Pullman Bread." (For Wax-Paper Bread Wrappers.) No. 25,377; Nov. 28.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to The Holland Bread Co., Columbus, Ohio. "Graham Bread." (For Wax-Paper Bread Wrappers.) No. 25,396; Dec. 5.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Ohio Dairy Company, Toledo, Ohio. "Royal." (For Cartons Containing Oleomargarine.) No. 25,465; Dec. 26.
- Meriden Creamery Co., The. (See Menasha Printing and Carton Company, assignor.)
- Metro Chocolate Co. Inc., The, Brooklyn, N. Y. "Chesterfield." (For Chocolate Caramels.) No. 24,353; May 9.
- Michico Inc., Benton Harbor, Mich. "Michico Grapes." (For Packages Containing Grapes.) No. 25,342; Nov. 21.
- Michigan Butter & Egg Co. (See Menasha Printing and Carton Company, assignor.)
- Mickelberry's Food Products Co., Chicago, Ill. "Mickelberry's Old Farm Brand." (For Sausage.) No. 24,014; Feb. 7.
- Mid-States Wholesale Grocery, Omaha, Nebr. "Mid-States Brand." (For Rolled Oats.) No. 24,085; Feb. 14.
- Mile-A-Minute, Incorporated, Pittsburgh, Pa. "Mile-A-Minute." (For Carbon Remover and Preventer.) No. 24,652; July 4.
- Miles Manufacturing Co. Inc., The., Los Angeles, Calif. "Jeil-Well." (For a Raspberry Mixture.) No. 24,802; Aug. 1.
- Miller, Fred, Brewing Company, Inc., Milwaukee, Wis. "High Life." (For Malt Sirup.) No. 24,266; Apr. 25.
- Miller-Parrott Baking Co., Terre Haute, Ind. "Tip-Top." (For Loaves of Bread.) No. 24,413; May 30.
- Miller-Parrott Baking Co., Terre Haute, Ind. "Fruit Loaf." (For Loaves of Bread.) No. 24,529; June 20.
- Mills Baking Company, Detroit, Mich. "Mills Harvest Bread." (For White Bread.) No. 25,308; Nov. 14.
- Milwaukee Label & Seal Co., Milwaukee, Wis. "B. Prompt." (For Boxes Containing Collection and Good-Will Labels.) No. 24,086; Feb. 14.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolates." (For Boxes Containing Chocolate Candy.) No. 24,015; Feb. 7.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Candies." (For Boxes Containing Candy.) No. 24,016; Feb. 7.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Elaine Chocolates." (For Boxes Containing Chocolate Candy.) No. 24,087; Feb. 14.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Cherry-San Chocolates." (For Boxes Containing Chocolate Candy.) No. 24,088; Feb. 14.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Aviation Bar." (For Boxes Containing Sugar-Wafer Sandwiches.) No. 24,206; Apr. 4.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Fruits and Nuts." (For Boxes Containing Fruits and Nuts, Dipped in Cream, Chocolate Covered.) No. 24,267; Apr. 25.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Cherries." (For Boxes Containing Cherries in Liquid Covered With Milk Chocolate.) No. 24,354; May 9.
- Milwaukee Paper Box Company, Milwaukee, Wis. "College Days." (For Boxes Containing Candy.) No. 24,414; May 30.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Cherries in Cordial." (For Boxes Containing Chocolate-Covered Cherries in Cordial.) No. 24,943; Aug. 29.
- Mims Medicine Co. (See Mims, W. B.)
- Mims, W. B., doing business as Mims Medicine Co., Girard, Ala. "Mim's 3 M's Chill & Fever Tonic & Liver Regulator." (For Bottles Containing a Tonic and Liver Regulator.) No. 25,428; Dec. 19.
- Miner, Est. Henry C. Miner, Inc., New York, N. Y. "Miner's Minstrel Black." (For Chemical Preparation in Paste Form Suitable for Blackening the Skin.) No. 24,586; June 27.
- Minnesota Valley Canning Co., Le Sueur, Minn. "Minnesota Valley." (For Canned Peas.) No. 24,415; May 30.
- Minnesota Valley Canning Co., Le Sueur, Minn. "Artesian." (For Canned Peas.) No. 24,416; May 30.
- Minnesota Valley Canning Co., Le Sueur, Minn. "Le Sueur." (For Canned Peas.) No. 24,417; May 30.
- Mission Provision Company, San Antonio, Tex. "Pilgrim." (For Sugar-Cured Ham.) No. 25,309; Nov. 14.
- Mississippi and Yazoo Delta Beekeepers' Association, Greenville, Miss. "Delta Pure Southern Honey." (For Honey Put Up in Retail Containers.) No. 24,268; Apr. 25.
- Mitchell, John S., Incorporated, Windfall, Ind. "Imperial." (For Tomato Paste.) No. 25,378; Nov. 28.
- Mizell-Evans Co. (See Mizell, L. M.)
- Mizell, L. M., doing business as Mizell-Evans Syrup Co., and Mizell-Evans Co., Live Oak, Fla. "Suwannee." (For Sirup.) No. 24,944; Aug. 29.
- Mizell-Evans Syrup Co. (See Mizell, L. M.)
- Moehle Lithographic Company, The, New York and Brooklyn, N. Y. "El Tropicco." (For Cigars.) No. 23,914; Jan. 17.
- Moehle Lithographic Company, The, New York and Brooklyn, N. Y. "El Universo." (For Cigars.) No. 23,915; Jan. 17.
- Moehle Lithographic Company, The, New York and Brooklyn, N. Y. "La Gratitude." (For Cigars.) No. 23,916; Jan. 17.
- Moehle Lithographic Company, The, Brooklyn and New York, N. Y. "La Patria." (For Cigars.) No. 23,917; Jan. 17.
- Moehle Lithographic Company, The, Brooklyn and New York, N. Y. "El Traficante." (For Cigars.) No. 23,918; Jan. 17.
- Moehle Lithographic Company, The, Brooklyn and New York, N. Y. "Petit Bouquet." (For Cigars.) No. 23,919; Jan. 17.
- Moehle Lithographic Company, The, Brooklyn and New York, N. Y. "Bella De Cuba." (For Cigars.) No. 23,920; Jan. 17.
- Moehle Lithographic Company, The, Brooklyn and New York, N. Y. "Pearl." (For Cigars.) No. 23,921; Jan. 17.
- Montauk Ice Cream Company, The. (See Menasha Printing and Carton Company, assignor.)
- Monument Ink Company. (See Broshears, A. A.)
- Moon Laboratories. (See O'Connor, Edward J.)
- Moore, D., & Company. (See Moore, Daniel.)
- Moore, Daniel, doing business as D. Moore & Company, Kansas City, Mo. "Vigorie." (For Containers for a Medicine for Kidney, Bladder, and Stomach Trouble, Lumbago, Indigestion, and Chronic Constipation.) No. 25,173; Oct. 17.
- Moore Push Pin Company, Philadelphia, Pa. "Moore Push-Pins." (For Push Pins.) No. 24,530; June 20.
- Morrill, James P., Reno, Nev. "Summer and Winter De Lite Ice Cream Stick That Hits Right." (For an Ice-Cream Stick.) No. 24,355; May 9.
- Morris, Mann & Reilly, Chicago, Ill. "Duchess of Marlborough." (For Invisible Human Hair Nets.) No. 24,269; Apr. 25.
- Morris, Mann & Reilly, Inc., Chicago, Ill. "M. M. R's Red Seal Hair Net." (For Hair Nets.) No. 24,653; July 4.

Alphabetical list of registrants of labels—Continued.

- Morris, Mann & Reilly, Inc., Chicago, Ill. "Mi-Lady A Real Hair Net." (For Hair Nets.) Nos. 24,945-56; Aug. 29.
- Morse, A. G., Co., Chicago, Ill. "Morse's Not All Chocolates." (For Candy.) No. 25,174; Oct. 17.
- Moth K-L Company, Incorporated, The, Wilmington, Del., and New York, N. Y. "Moth K-L." (For a Liquid Preparation for Protection Against Moths.) No. 24,531; June 20.
- Motor-Kleen Corporation, Long Island City, N. Y. "Motor-Kleen." (For a Preparation for Removing Carbon.) No. 24,356; May 9.
- Motor Products Company, Los Angeles, Calif. "Vapooile." (For Cans Containing Vapooile.) No. 24,017; Feb. 7.
- Motor Products Company, Los Angeles, Calif. "Auto Sprying Oyle." (For Cans Containing Auto Sprying Oyle.) No. 24,089; Feb. 14.
- Mound City Products Co., The, St. Louis, Mo. "Cream-o-Life." (For Sirup Concentrate, Grape Flavored.) No. 25,310; Nov. 14.
- Mowry Creamery Co. (See Menasha Printing and Carton Company, assignor.)
- Murr Chemical Company, Indianapolis, Ind. "Murr's Cleaner." (For Cans and Packages Containing a Cleaning Preparation.) No. 25,080; Oct. 3.
- Murray, Emmett L., doing business as Murray's Pharmacy, Americus, Ga. "Murray's Fragrant Cream Violet For Beautifying The Complexion." (For 25¢, 35¢, and 50¢ Size Bottles Containing a Preparation for Beautifying the Complexion.) No. 24,731; July 18.
- Murray, William J., Saginaw, Mich. "Murray's Preparations." (For Medicines for External Use, Especially Liniment.) No. 25,228; Oct. 31.
- Murray's Pharmacy. (See Murray, Emmett L.)
- Murwood Associates, Worcester, Mass. "Child Ed-U-Kat-her." (For Boxes or Packages Containing Pasteboard Cut-Outs of Fanciful Figures.) Nos. 24,357-9; May 9.
- Mutual Oil Company, Kansas City, Mo. "Sweeping Compound." (For Sweeping Compound.) No. 24,018; Feb. 7.
- Mutual Supply Co., San Francisco, Calif. "Rose Bud Brand Extra Fancy Basket Fired Japan Tea." (For Tea.) No. 24,880; Aug. 15.
- Mutual Supply Co., San Francisco, Calif. "Poppy Brand Extra Choicest Basket Fired Japan Tea." (For Tea.) No. 24,881; Aug. 15.
- Myrnette Company, The, Milwaukee Wis. "La Mynnette." (For Receptacles Containing Face-Powder Preparation and also on Combination Vanity and Manicuring Sets.) No. 24,407; Apr. 4.
- Nagano, Shinsaku, Chicago, Ill. "Fuji Chop Suey Sauce." (For Chop-Suey Sauce.) No. 23,922; Jan. 17.
- Nash Coffee Company, Minneapolis, Minn. "Nash's Delicious Guaranteed Quality Coffee." (For Coffee.) No. 24,270; Apr. 25.
- National Candy Co., St. Louis, Mo. "Prescription Dr. Veribrite." (For Candy—namely, Jelly Beans.) No. 25,311; Nov. 14.
- National Carbon Co. Inc., Cleveland, Ohio. "Columbia White Flame A. C. Projector Carbons." (For Columbia White Flame A. C. Projector Carbon Packages.) No. 23,925; Jan. 17.
- National Carbon Co. Inc., Cleveland, Ohio. "Columbia Projector Carbons." (For Columbia Projector Carbon Packages.) No. 23,924; Jan. 17.
- National Carbon Co. Inc., Cleveland, Ohio. "Columbia Silvertop Negative Projector Carbons." (For Columbia Silvertop Negative Projector Carbon Packages.) No. 23,925; Jan. 17.
- National Carbon Company, Inc., New York, N. Y. "Eveready Unit Cell." (For Electric Batteries.) No. 24,271; Apr. 25.
- National Carbon Company, Inc., New York, N. Y. "Columbia Hot Shot Battery." (For Electric Batteries.) No. 24,587; June 27.
- National Carbon Company Inc., New York, N. Y. "Eveready Unit Cell." (For Electric Batteries.) No. 24,803; Aug. 1.
- National Carbon Company, Inc., New York, N. Y. "American Unit Cell." (For Electric Batteries.) No. 25,397; Dec. 5.
- National Commodities Company, Wilmington, Del., and Philadelphia, Pa. "Vaglo Hair Net." (For Hair Nets.) No. 24,588; June 27.
- National Commodities Company, Wilmington, Del., and Philadelphia, Pa. "Curlox Oversize Hair Net." (For Hair Nets.) No. 24,589; June 27.
- National Drug Stores Corp., New York, N. Y. "National Ivory White." (For Tooth Paste.) No. 24,153; Feb. 28.
- National Drug Stores Corp., New York, N. Y. "National Brown Package." (For Assorted Chocolates.) No. 24,272; Apr. 25.
- National Foods Products Co., Chicago, Ill. "Sweet-Nut Goobers." (For Salted Peanuts.) Nos. 24,590-1; June 27.
- National Ice Cream Co. (See Menasha Printing and Carton Company, assignor.)
- National Paper Products Company, San Francisco, Calif. "Toiletex." (For Toilet Tissue Paper.) No. 25,379; Nov. 28.
- National Pepsin Gum Co., San Francisco, Calif. "Selby's Fleur Kiss Chewing Gum." (For Packages Containing Chewing Gum.) No. 24,654; July 4.
- National Trading Company, Chicago, Ill. "Made with the Famous Duro-Knots." (For Hair Nets.) No. 25,466; Dec. 26.
- Naylor, Charles A., St. Louis, Mo. "Hi-Hi Broad Leaf." (For Cigars.) No. 24,090; Feb. 14.
- Nebraska Buick Auto Co., Lincoln, Nebr. "Research." (For Motor Oil.) No. 24,460; June 6.
- Nekritz, Jacob L., Brooklyn, N. Y. "P S G Co. Stove Gloss." (For a Stove Gloss Preparation.) No. 24,655; July 4.
- Nekritz, Louis, doing business as The Perfect Polish Company, Brooklyn, N. Y. "Nek-Ritz's Iron Lustre." (For a Stove Gloss Preparation.) No. 24,532; June 20.
- Nellis & Co. (See Nellis, F. E., & Co.)
- Nellis, F. E., & Co., doing business as Nellis & Co., Chicago, Ill. "N." (For Receptacles Containing Apples.) No. 25,081; Oct. 3.
- Neofes, George H., Wheeling, W. Va. "Dove Brand Olive Oil." (For Olive Oil.) No. 24,421; May 30.
- Neuwahl, Gus, Altoona, Pa. "White Lion." (For Cigars.) No. 23,926; Jan. 17.
- Neuwahl, Gus, Altoona, Pa. "Our Business Reputation." (For Cigars.) No. 23,927; Jan. 17.
- Neuwahl, Gus, Altoona, Pa. "Because." (For Cigars.) No. 25,380; Nov. 28.
- Neyer, Enough Pie Company, The, Bridgeport, Conn. "Yankee Roll." (For Wrappers for and on Containers in Which Are Packed Articles of Food Consisting of a Shell of Baked Dough Having Rolled Within It Before Baking a Filling Consisting of Chopped Meat, Fish, Cheese, Mince-meat, Jelly, Chocolate, Berries, or Fruits.) No. 25,343; Nov. 21.
- New Process Coffee Co. Inc., Brooklyn, N. Y. "Ever Fresh." (For Coffee.) No. 25,381; Nov. 28.
- New Richmond Roller Mills Co., New Richmond, Wis. "Vitamin." (For Whole-Wheat Flour.) No. 24,957; Aug. 29.
- New York Merchandise Company, New York, N. Y. "Perfecta Human Hair Nets." (For Hair Nets.) No. 24,154; Feb. 28.
- New York Merchandise Company, New York, N. Y. "Cosmopolitan Hair Net." (For Hair Nets.) No. 24,155; Feb. 28.
- New York Merchandise Company, New York, N. Y. "Dorothy Hair Net." (For Hair Nets.) No. 24,156; Feb. 28.
- New York Merchandise Company, New York, N. Y. "Dora Dean Hair Net." (For Hair Nets.) No. 24,533; June 20.
- New York Merchandise Company, New York, N. Y. "Della Hair Net." (For Hair Nets.) No. 24,534; June 20.
- New York Merchandise Company, New York, N. Y. "Ruby Hair Net." (For Hair Nets.) No. 24,535; June 20.
- New York Merchandise Company, New York, N. Y. "Dolly Varden Hair Net." (For Hair Nets.) No. 24,536; June 20.
- Newark Paraffine & Parchment Paper Co., Newark, N. J., Columbus, Ohio, and New York, N. Y. "New England Bread." (For Bread.) No. 23,928; Jan. 17.
- Newark Paraffine & Parchment Paper Co., Newark, N. J., Columbus, Ohio, and New York, N. Y. "Butter Maid Bread." (For Bread.) No. 24,592; June 27.
- Newark Paraffine & Parchment Paper Co., Newark, N. J., Columbus, Ohio, and New York, N. Y. "Thorobread." (For Bread.) No. 24,656; July 4.
- Newbill, T. J., La Grange, Ill. "Vit-A-Mine Line Foods." (For Vit-A-Mine Line Foods.) No. 24,657; July 4.
- Newlyn, Thomas J., doing business as Beautypeel Cosmetic Co., El Paso, Tex. "Unmask Your Beauty." (For Cosmetic Lotions for Beautifying the Skin and Eradicating Blemishes Thereof.) No. 24,804; Aug. 1.
- Niagara Wall Paper Company, Niagara Falls, N. Y. "Blue Ribbon." (For Rolls of Wall Paper.) No. 25,382; Nov. 28.
- Nicomors Products Co., The, Cleveland, Ohio. "Nicomors." (For Chewing Gum.) No. 24,178; Mar. 7.
- Nielsen's, Chas. J., Sons, Brooklyn, N. Y. "Sancho." (For Cigars.) No. 24,418; May 30.
- Nielsen's, Chas. J., Sons, Brooklyn, N. Y. "Rossmore." (For Cigars.) No. 24,419; May 30.
- Nielsen's, Chas. J., Sons, Brooklyn, N. Y. "Nielsen's Havana." (For Cigars.) No. 24,420; May 30.
- Noaker Ice Cream Co. (See Menasha Printing and Carton Company, assignor.)
- Noble and Noble, New York, N. Y. "House That Jack Built." (For the Cover of a Game Box.) No. 25,253; Nov. 7.
- Non-Rip Silk Hosiery Mills Inc., New York, N. Y. "Pure Silk." (For Hosiery.) No. 24,732; July 18.
- North American Fruit Exchange, Jersey City, N. J., and New York, N. Y. "Live Oak Brand Tomatoes." (For Tomatoes.) No. 24,537; June 20.
- North American Honey Distributors. (See Southworth, W. P.)
- North American Honey Distributors. (See Van Schuetz, Samuel F.)
- North American Import Co., Chicago, Ill. "Vicitra." (For Hair Nets.) No. 24,157; Feb. 28.
- North East Electric Company, Rochester, N. Y. "North East Service Parts." (For Miscellaneous Electrical Apparatus and separate Parts Thereof.) No. 25,197; Oct. 24.

- Northern Fruit Company, Tonasket, Wash. "Red Head." (For Apples.) No. 24,805; Aug. 1.
- Northern Paper Mills, Green Bay, Wis. "Fairy." (For Wrapper for Toilet-Paper Rolls.) No. 24,179; Mar. 7.
- Northern Paper Mills, Green Bay, Wis. "Blue Lake." (For a Wrapper for Toilet-Paper Rolls.) No. 24,180; Mar. 7.
- Northern Paper Mills, Green Bay, Wis. "Heather." (For a Wrapper for Toilet-Paper Rolls.) No. 24,181; Mar. 7.
- Northern Paper Mills, Green Bay, Wis. "Red Poppy." (For a Wrapper for Toilet-Paper Rolls.) No. 24,658; July 4.
- Northern Paper Mills, Green Bay, Wis. "Yellow Bird." (For a Wrapper for Toilet-Paper Rolls.) No. 24,659; July 4.
- Northern Paper Mills, Green Bay, Wis. "Northern Cabinet Tissue." (For a Wrapper for Packages of Toilet Paper.) No. 24,660; July 4.
- Northern Paper Mills, Green Bay, Wis. "Green Leaf." (For a Wrapper for Toilet-Paper Rolls.) No. 24,661; July 4.
- Northern Paper Mills, Green Bay, Wis. "Northern Bear." (For a Wrapper for Toilet-Paper Rolls.) No. 24,662; July 4.
- Northern Paper Mills, Green Bay, Wis. "Bonnie." (For a Wrapper for Toilet Paper Rolls.) No. 24,663; July 4.
- Northern Paper Mills, Green Bay, Wis. "Purple Feather." (For a Wrapper for Toilet-Paper Rolls.) No. 24,664; July 4.
- Northern Paper Mills, Green Bay, Wis. "Drytex." (For a Wrapper for Folded Paper Towels.) No. 24,665; July 4.
- Northern Paper Mills, Green Bay, Wis. "Northern Tissue." (For a Wrapper for Toilet-Paper Rolls.) No. 25,133; Oct. 10.
- Northern Paper Mills, Green Bay, Wis. "Quality Crepe." (For a Wrapper for Toilet-Paper Rolls.) No. 25,175; Oct. 17.
- Northern Woolen Company. (See Grinager, Haavel K.)
- Northrup, King & Co., Minneapolis, Minn. "Northrup, King & Co. Seed Corn." (For Bags of Seed Corn.) No. 24,091; Feb. 14.
- Northrup, King & Co., Minneapolis, Minn. "Queen." (For Cartons of Japanese Hull-less Popcorn.) No. 24,756; July 25.
- Novak Grocery Company, The, Chicago, Ill. "Cash & Carry Brand 2 Sweet Corn 2 Extra Standard Quality." (For Canned Sweet Corn.) No. 24,092; Feb. 14.
- Novak Grocery Company, The, Chicago, Ill. "Cash & Carry Brand 1 Sweet Corn 1 Fancy Quality." (For Canned Sweet Corn.) No. 24,093; Feb. 14.
- Novak Grocery Company, The, Chicago, Ill. "Cash & Carry Brand 3 Sweet Corn 3 Standard Quality." (For Canned Sweet Corn.) No. 24,094; Feb. 14.
- Nuradium Company, Chicago, Ill. "Nuradium." (For a Medicinal and Pharmaceutical Preparation, Consisting of Minute Particles of Radium Combined with Other Medicinal and Therapeutical Ingredients to Form Nuradium.) No. 24,538; June 20.
- Nuss Confectionery Company, The, Cincinnati, Ohio. "Indian Corn Candy." (For Butter Cream Confections—Namely, Indian Corn Candy.) No. 24,666; July 4.
- Nye, Win., doing business as Lucy Bowels Co., Portsmouth, Ohio. "Rida Piles." (For Tin Boxes Containing Salve or Ointment, of Drugs Compounded for Eczema and Piles.) No. 25,082; Oct. 3.
- Ochakoff, Barney, Chicago, Ill. "Sylvia De Mae." (For Cigars.) No. 24,219; Apr. 18.
- O'Connor, Edward J., doing business as Moon Laboratories, St. Louis, Mo. "Luna." (For a Toilet Article—namely, Lemon Cleansing Cream (Cold Cream).) No. 25,312; Nov. 14.
- O'Connor, Edward J., doing business as Moon Laboratories, St. Louis, Mo. "Moon-Tabs." (For a Pharmaceutical Preparation for the Prevention and Correction of Vaginitis, Leucorrhea, Catarrhal Inflammation, and Bad-Smelling Discharges.) No. 25,313; Nov. 14.
- Odell, R., & Sons Company, Newark, N. J. "Petrol." (For a Hair Tonic.) No. 25,083; Oct. 3.
- Oelbaum Bros. & Bauer, New York, N. Y. "Never-Rip." (For Boxes Containing Work Shirts.) No. 25,229; Oct. 31.
- Oertel Co. Incorporated, The, Louisville, Ky. "Real-Lager." (For a Cereal Beverage.) No. 24,705; July 11.
- Oest Fruit Company, San Francisco, Calif. "Oest's." (For Minicement.) No. 25,254; Nov. 7.
- Ogle, D. S., New Boston, Tex. "Ogle's Itch and Eczema Cure." (For Ogle's Itch and Eczema Cure.) No. 25,134; Oct. 10.
- Ohio Confection Company, The, Cleveland, Ohio. "Sunny Jim." (For Confectionery.) No. 25,084; Oct. 3.
- Ohio Confection Company, The, Cleveland, Ohio. "Big Barney Bar." (For Confectionery.) No. 25,085; Oct. 3.
- Ohio Dairy Company (See Menasha Printing and Carton Company, assignor.)
- Ohio Salt Company, The, Wadsworth, Ohio. "Forest Maid." (For Receptacles Containing Salt.) No. 24,095; Feb. 14.
- Ohio Salt Co., The, Wadsworth, Ohio. "Pappoose." (For Receptacle Containing Salt.) No. 25,344; Nov. 21.
- Olafson-Cohen-Anderson Mfg. Co. Inc., St. Paul, Minn. "The Sanitary Talcum Powder Dispenser." (For Talcum Powder Dispensers.) No. 24,311; May 2.
- Old French Co. (See Gaffney, James F.)
- Old Style Malt Extract Co., Chicago, Ill. "Old Style Purest and Best Malt Extract." (For Malt Extracts.) No. 24,757; July 25.
- Omez Pharmaceutical Co., Denver, Colo. "Asp-Rin-Lax." (For Cold Tablets.) No. 24,667; July 4.
- Omez Pharmaceutical Co., Denver, Colo. "Omez." (For Gland Tablets.) No. 25,429; Dec. 19.
- O'Neill, William M., Chicago, Ill. "Madagascar." (For a Preparation for the Hair.) No. 24,539; June 20.
- O'Neill, J. A., Crozet, Va. "Virginia Mountain Peaches, Mad Run Brand." (For Packages Containing Peaches.) No. 24,668; July 4.
- Oregon Growers Cooperative Association, Salem, Oreg. "Firland." (For Royal Anne Cherries.) No. 25,135; Oct. 10.
- Oregon Growers Cooperative Association, Salem, Oreg. "Mistland." (For Strawberries.) No. 25,136; Oct. 10.
- Oregon Growers Cooperative Association, Salem, Oreg. "Richland." (For Royal Anne Cherries.) No. 25,137; Oct. 10.
- Oregon Growers Co-Operative Assn., Portland, Oreg. "Brookland." (For Loganberries.) No. 25,198; Oct. 24.
- Oregon Milk Company, Portland, Oreg. "Oregon Brand." (For Evaporated Unsweetened Milk.) No. 25,138; Oct. 10.
- Oregon Syrup of Prunes Co., Portland, Oreg. "Syrup of Prunes." (For a Tonic Laxative Proprietary Medicine.) No. 24,158; Feb. 28.
- Orsinger, L. V., La Salle, Ill. "Iceberg Ice Cream Bar." (For Ice Cream and Ice-Cream Confections.) No. 24,312; May 2.
- Osbaldeston, Frank T., doing business as The Turner Sales Co., Chicago, Ill. "Belinda's Joy." (For a Washing Compound.) No. 24,461; June 6.
- Oscar Hair Restoring Company, Scranton, Pa. "The Chertok-Bodak Hair Saver." (For a 4-oz. Bottle of Vegetable and Root Compound (Liquid) for the Treatment of Hair and Scalp.) No. 24,669; July 4.
- Ottens, Henry H., Mfg. Co. Inc., Philadelphia, Pa. "Knut Kola." (For Noncereal, Maltless, Nonalcoholic Beverages Containing Less Than One-Half of One Per Cent of Alcohol, by Volume.) No. 25,230; Oct. 31.
- Ovotone Company. (See Abelio, Dr. J. M.)
- Owen, Frank Lee, San Francisco, Calif. "Honey Bunch." (For Grapefruit.) No. 24,806; Aug. 1.
- Pacific Coast Biscuit Company, Seattle, Wash. "Swastika." (For Soda Crackers.) No. 25,871; Jan. 10.
- Pacific Coast Biscuit Company, Seattle, Wash. "Long Branch." (For Saltine Flakes.) No. 24,758; July 25.
- Pacific Coast Sales Company, San Francisco, Calif. "Chimnee-Sweep." (For Cylindrical Packages Containing a Dry Black Chemical Compound Soot Destroyer.) No. 25,467; Dec. 26.
- Paducah Hosiery Mills, Inc., Paducah, Ky. "Padu Knit." (For Hosiery.) No. 24,540; June 20.
- Pain, Henry J., New York, N. Y. "Pain's Saluting The Flag." (For Fireworks, and More Particularly on the Boxes and Wrapper in Which the Said Fireworks are Packed.) No. 25,020; Sept. 5.
- Palmer, Gene, Company, Portland, Oreg. "Gene Palmer Face Powder." (For Boxes Containing Face Powder.) No. 24,208; Apr. 4.
- Palmer, Gene, Company, Portland, Oreg. "White Star Ointment." (For Boxes Containing White Star Ointment.) No. 24,209; Apr. 4.
- Pandora Products Company. (See Cook, Bessie W.)
- Paper Specialty Company, Wausau, Wis. "Parasilk." (For Toilet Paper.) No. 24,670; July 4.
- Paper Supply Company, The, Minneapolis, Minn. "Cinderella." (For a Wrapper for Toilet-Paper Rolls.) No. 25,314; Nov. 14.
- Parched Wheat Co., The, Fostoria, Ohio. "Women Grinding at the Mill." (For Cartons Containing Parched Wheat.) No. 25,176; Oct. 17.
- Paris & Co., New York, N. Y. "Hy-Test." (For Coffee.) No. 25,231; Oct. 31.
- Paris Manufacturing Company, The, Cleveland, Ohio. "Wonderful Improvement For Service and Cleaning." (For Window Shades, Being Applied to the Shade Rollers Thereof.) No. 24,377; May 16.
- Park Laboratory Company, San Antonio, Tex. "Grandma's Absorbo." (For a Penetrating Salve.) No. 24,360; May 9.
- Parodi Cigar Co., Inc., Jersey City, N. J. "Avanti." (For Boxes Containing Cigars.) No. 24,313; May 2.
- Pastene, P. & Co. Inc., Boston, Mass. "La Napoletana." (For Peeled Tomatoes.) No. 24,759; July 25.
- Pasier, Michael A., Chicago, Ill. "Pasier's Products." (For Beet Catsup.) No. 23,929; Jan. 17.
- "Pat" Wheelan. (See Wheelan, Robert B.)
- Patrick, J. K., Athens, Ga. "Patrick's Mentho-Mustard." (For Ointment.) No. 24,314; May 2.
- Patton, Chas. E., Lynchburg, Ohio. "Jervel Loaf." (For Loaves of Bread.) No. 24,096; Feb. 14.
- Paul, B. (See Balme, Paul.)
- Peel Chemical Corporation, New York, N. Y. "Dip-It." (For Cartons Containing Dip-It.) No. 24,097; Feb. 14.
- Peerless Paper Co., The, Dayton, Ohio. "Enameline." (For Paper.) No. 24,807; Aug. 1.
- Pekich, P. A., New York, N. Y. "Sunshine Brand Famous Pure Home Made Mayonnaise." (For Mayonnaise.) No. 24,182; Mar. 7.

Alphabetical list of registrants of labels—Continued.

- Pekich, P. A., New York, N. Y. "Sunshine Brand Famous Pure Home Made Orange Marmalade." (For Orange Marmalade.) No. 24,183; Mar. 7.
- Pekich, P. A., New York, N. Y. "Sunshine Brand Famous Pure Home Made Mayonnaise Olive Relish." (For Olive Relish.) No. 24,184; Mar. 7.
- Penick & Ford, Ltd., incorporated, New Orleans, La. "Penick." (For Sirup.) Nos. 25,315-7; Nov. 14.
- Penn. Lace & Braid Mfg. Co. (See Bernstein, Hyman.)
- Pennsylvania Sugar Company, Philadelphia, Pa. "Pen-Jel." (For a Powdered Substance Consisting of Pectin and Acidified Sugar, a Quick Jelly-Making Material.) No. 24,671; July 4.
- Penryn Fruit Company, Penryn, Calif. "Fancy California Cherries." (For Boxed Cherries.) No. 24,541; June 20.
- Perfect Polish Company. (See Nekritz, Louis.)
- Perfect System Bakeries, Oklahoma, Okla. "Perfect Bread." (For Bread.) No. 24,423; May 30.
- Perlmutter, Walter, West Broadway, Iowa. "Kream Krust Bread." (For Bread.) No. 23,973; Jan. 31.
- Peters Hog-Biscuit Co., Kansas City, Mo. "Hog-Nip Flavor." (For the Containers for a Hog Remedy in the Form of a Biscuit.) No. 24,462; June 6.
- Petersen, Ella G., Omaha, Neb. "Cricket Proof." (For Binder Twine.) No. 24,273; Apr. 25.
- Petri Italian-American Cigar Co., Inc., San Francisco, Calif. "Il Vincitor." (For Boxes Containing Cigars.) No. 24,542; June 20.
- Petri-Italian-American Cigar Co., Inc., San Francisco, Calif. "Van Camp." (For Boxes and Cans Containing Cigars.) No. 25,086; Oct. 3.
- Pettijohn Pure Products Co. (See Towne, George W.)
- Pfaffmann Egg Noodle Company, The, Cleveland, Ohio. "Superior." (For Macaroni.) No. 24,808; Aug. 1.
- Pfaffmann Egg Noodle Company, The, Cleveland, Ohio. "Superior." (For Noodles.) No. 25,044; Sept. 12.
- Pfaffmann Egg Noodle Company, The, Cleveland, Ohio. "Superior." (For Sea Shells.) No. 25,045; Sept. 12.
- Pfaffmann Egg Noodle Company, The, Cleveland, Ohio. "Superior." (For Vermicelli.) No. 25,046; Sept. 12.
- Pfaffmann Egg Noodle Company, The, Cleveland, Ohio. "Superior." (For Spaghetti.) No. 25,047; Sept. 12.
- Pfieger, A. S., & Son, Ironton, Ohio. "Walsten." (For Cigars.) No. 24,422; May 30.
- Philipsborn's, Inc., Chicago, Ill. "Philipsborn's Congratulations! To the Sweetest Baby in the World." (For Infants' Layettes.) No. 25,430; Dec. 19.
- Phospho Food Co. Inc., Los Angeles, Calif. "Cream of Bran." (For Cereals.) No. 24,760; July 25.
- Phospho Food Co. Inc., Los Angeles, Calif. "Phospho." (For Nut-Brown Meal.) No. 24,761; July 25.
- Phytamin Corporation, The, Wilmington, Del., and New York, N. Y. "Phytamin." (For a Food Product.) No. 24,121; Feb. 21.
- Picaninny Freeze Company of America, Salt Lake City, Utah. "Picaninny Freeze Eat Seeds 'n All." (For Ice Cream or Analogous Confections, and More Particularly in the Form of Individual Frozen Dainties.) No. 24,543; June 20.
- Picture-Plex Corp., New York, N. Y. "Picture-Plex." (For Educational Tracing and Duplicating Apparatus.) No. 25,199; Oct. 24.
- Pierial, Attilio, doing business as Great Northern Fur Dyeing & Dressing Co., Brooklyn, N. Y. "Famous—Sealines—Molines—Hudson—Seal." (For Furs and Skins.) No. 24,855; Aug. 8.
- Pierini, Attilio, doing business as Great Northern Fur Dyeing & Dressing Company, Brooklyn, N. Y. "Northern Seal." (For Furs and Skins.) No. 24,856; Aug. 8.
- Pittsburg Storage Company, Pittsburg, Tex. "Little Joe." (For Sweet Potatoes.) No. 24,098; Feb. 14.
- Pittsburgh Ice Cream Co. (See Menasha Printing and Carton Company, assignor.)
- Planters Products Company, Atlanta and Montezuma, Ga. "Pride of Georgia Sweets." (For Crates and Other Receptacles Used in Shipping Selected Sweet Potatoes.) No. 24,315; May 2.
- Play Ball Manufacturing Company. (See Prince, Irving.)
- Playatone Co., The, New York, N. Y. "Rite-Tone Tube-Phone." (For Musical Instruments.) No. 24,593; June 27.
- Pleasant Valley Farms and Morey Condensery Company, North Prairie, Wis. "Wisconsin Farms' Brand Evaporated Milk." (For Cans Containing Unsweetened Evaporated Milk.) No. 24,958; Aug. 29.
- Pleasant Valley Farms and Morey Condensery Company, North Prairie, Wis. "Guernsey Brand Evaporated Milk." (For Cans Containing Unsweetened Evaporated Milk.) No. 24,959; Aug. 29.
- Pleasant Valley Farms and Morey Condensery Company, North Prairie, Wis. "Pleasant Valley Farms' Brand Evaporated Milk." (For Cans Containing Unsweetened Evaporated Milk.) No. 24,960; Aug. 29.
- Peng's Pharmacy Inc., Charleston, S. C. "It Kills 'Not' Drives." (For Insect Exterminators.) No. 24,463; June 6.
- Plymack, Jos., Camden, N. J. "The Lucille Dress." (For Children's Dresses.) No. 24,099; Feb. 14.
- Ponce De Leon Medicine Co. (See Rivera, Guillermo H.)
- Porter, Pauline, Inc., New York, N. Y. "Pauline Porters Solid-I-Fdy Coconut Oil." (For a Shampoo Preparation of Coconut and Olive Oil.) No. 125,177; Oct. 17.
- Prada, Joseph E., Quincy, Mass. "Prada Sunbeam Polish." (For a Polish for Pianos, Furniture, Floors, Enamel Beds, Automobiles, and All Varished and Enamelled Surfaces.) No. 24,464; June 6.
- Premier Candy Co., Seattle, Wash. "Nutty Ruff." (For Boxed Chocolates.) No. 25,431; Dec. 19.
- Premier Malt Products Co. of Ohio, Inc., Chicago, Ill., and Steubenville, Ohio. "Blue Ribbon." (For Sirupy Fruit-Flavored Concentrates for Making Beverages.) No. 25,255; Nov. 7.
- Premier Sugar Cone and Wafer Company. (See Abbate, Salvatore.)
- Preston Milling Co., Preston, Idaho. "Optimo Made From Hard Turkey Wheat." (For Sacks Containing Flour.) No. 25,432; Dec. 19.
- Price, Eugene S., New York, N. Y. "Gastroids." (For a Remedy for the Liver and Stomach.) No. 24,857; Aug. 8.
- Price Flavoring Extract Company, Chicago, Ill. "Dr. Price's Pure Paprika." (For Containers for Paprika.) No. 24,961; Aug. 29.
- Price Flavoring Extract Company, Chicago, Ill. "Dr. Price's Pure Ground Black Pepper." (For Containers for Black Pepper.) No. 24,962; Aug. 29.
- Price Flavoring Extract Company, Chicago, Ill. "Dr. Price's Pure Ground Ginger." (For Containers for Ginger.) No. 25,139; Oct. 10.
- Price Flavoring Extract Company, Chicago, Ill. "Dr. Price's Pure Ground Cloves." (For Containers for Cloves.) No. 25,140; Oct. 10.
- Price Flavoring Extract Company, Chicago, Ill. "Dr. Price's Pure Ground Cinnamon." (For Containers for Cinnamon.) No. 25,141; Oct. 10.
- Price Flavoring Extract Company, Chicago, Ill. "Dr. Price's Pure Ground Nutmeg." (For Containers for Nutmeg.) No. 25,142; Oct. 10.
- Price Flavoring Extract Company, Chicago, Ill. "Dr. Price's Pure Ground Allspice." (For Containers for Allspice.) No. 25,143; Oct. 10.
- Price Flavoring Extract Company, Chicago, Ill. "Dr. Price's Pure Ground White Pepper." (For Containers for White Pepper.) No. 25,200; Oct. 24.
- Primalt Products Co., Chicago, Ill. "Prima." (For Barley Malt Extract.) No. 24,706; July 11.
- Primalt Products Co., Chicago, Ill. "Prima." (For Ginger Ale.) No. 24,707; July 11.
- Primrose Silk Stores, Inc., New York, N. Y. "Primrose Silks." (For Silk.) No. 24,361; May 9.
- Prince, H. G., & Co., Oakland, Calif. "H. G. Prince & Co's Finest." (For Fruit Salad.) No. 24,882; Aug. 15.
- Prince Irving, doing business as Play Ball Manufacturing Company, New York, N. Y. "Play Ball." (For Games.) No. 24,672; July 4.
- Pritchard & Constance, Inc., New York, N. Y. "Amami Bath Powder." (For Powder.) No. 25,021; Sept. 5.
- Pulmosan Company, New York, N. Y. "Pulmosan." (For a Compound Bottled by the Pulmosan Company.) No. 23,930; Jan. 17.
- Pumpelly-Howe Tobacco Company, Elmira, N. Y. "Ploughman." (For Cigars.) No. 24,362; May 9.
- Purity Cream Cheese Company, The. (See Menasha Printing and Carton Company, assignor.)
- Purity Cream Cheese Co., The, Cleveland, Ohio. "Edelweiss." (For Limburger Cheese.) No. 24,100; Feb. 14.
- Purity Malt Extract Co., Chicago, Ill. "Purity Brand Oregon Hops." (For Hops.) No. 23,931; Jan. 17.
- Purity Malt Extract Co., Chicago, Ill. "Purity Brand E. Z. Brew." (For Extracts for Beverage Purposes.) No. 23,932; Jan. 17.
- Purity Malt Extract Co., Chicago, Ill. "Purity Brand Domestic Malt Extract Dark." (For Extract for Beverage Purposes.) No. 23,933; Jan. 17.
- Put and Take Co., Memphis, Tenn. "Put and Take All Rubber Patch." (For an All-Rubber Patch for Mending Automobile Tire Inner Tubes or Other Articles Made of Rubber or Fabric.) No. 24,544; June 20.
- Putt-Putt Co., The, Chicago, Ill. "Putt-Putt Golf Game." (For a Game Apparatus.) No. 24,594; June 27.
- R. C. R. Binder, et al., trustees. (See Estate of Richard Binder.)
- Radiantfood Company, Oakland, Calif. "Wheat Treats." (For Wheat Cereals.) No. 25,087; Oct. 3.
- Radio-Films, Inc., Hollywood, Calif. "Listening In." (For Motion-Picture Films.) No. 24,858; Aug. 8.
- Radiograms, Inc., Hollywood, Calif. "Radiograms." (For Motion-Picture Films.) No. 24,859; Aug. 8.
- Randolph Marketing Company, Los Angeles, Calif. "Bull Dog." (For Oranges.) No. 25,232; Oct. 31.
- Rasmussen & Co., Portland, Ore. "Rasmussen." (For Paint.) No. 25,318; Nov. 14.
- Rasmussen & Co., Portland, Ore. "Rasmussen." (For Varnishes and Japans.) No. 25,319; Nov. 14.
- Rassias, George L., Brooklyn, N. Y. "Goody-Mints Candy." (For Candy.) No. 24,809; Aug. 1.
- Ray, A. J., & Son, Inc., doing business as Hugo V. Loewi Inc., Portland, Ore. "Bates." (For Hops.) No. 24,708; July 11.
- Ray, A. J., & Son, Inc., doing business as Hugo V. Loewi Inc., Portland, Ore. "Mt. Hood." (For Hops.) No. 24,709; July 11.
- Reading Cigar Co. Inc., The, Reading, Pa. "Tribby." (For Boxes and Cans Containing Cigars.) No. 24,963; Aug. 29.

- Readi-Sew Package Co., Inc., The, New York, N. Y. "Style No. 2016, The Readi-Sew Package." (For an Envelope Containing Children's Ready-to-Sew Garments.) No. 24,733; July 13.
- Realgood Corporation, The, Atlanta, Ga. "Realgood." (For Hosiery.) Nos. 24,673-4; July 4.
- Real Silk Hosiery Mills, Indianapolis, Ind. "Real Silk Hose." (For Containers of Hosiery.) No. 23,934; Jan. 17.
- Real Silk Hosiery Mills, Indianapolis, Ind. "Exclusive Features of Real Silk Fashioned Hosiery." (For Containers for Hosiery.) No. 24,363; May 9.
- Real Silk Hosiery Mills, Indianapolis, Ind. "Real Silk Fashioned Hosiery." (For Containers for Hosiery.) No. 24,465; June 6.
- Real Silk Hosiery Mills, Indianapolis, Ind. "Real Silk Hose." (For Containers for Hose.) No. 24,810; Aug. 1.
- Real Silk Hosiery Mills, Indianapolis, Ind. "Real Silk Super-Service Socks." (For Hose.) Nos. 24,883-4; Aug. 15.
- Red Gum Products Co. (See Greger, Henry N.)
- Red Sun Products Co. Inc., Chicago, Ill. "Golden Nectar." (For Sirup Concentrate.) No. 25,201; Oct. 24.
- Rees, Fred, doing business as The Remo Manufacturing Company, Meriden, Conn. "Little Cherub Safety Pins." (For Safety Pins.) No. 25,178; Oct. 17.
- Rees, Fred, doing business as The Remo Manufacturing Company, Meriden, Conn. "Little Sweetheart Safety Pins." (For Safety Pins.) No. 25,179; Oct. 17.
- Regus, Henry J., New Orleans, La. "Brownie Krust." (For Bread.) No. 24,675; July 4.
- Remington Arms Company, Inc., New York, N. Y., Bridgeport, Conn., and Iliou, N. Y. "Snipe Load." (For Loaded Shot Shells.) No. 24,466; June 6.
- Remington Arms Company, Inc., New York, N. Y., Bridgeport, Conn., and Iliou, N. Y. "Duck Load." (For Loaded Shot Shells.) No. 24,467; June 6.
- Remington Arms Company, Inc., New York, N. Y., Bridgeport, Conn., and Iliou, N. Y. "Heavy Duck Load." (For Loaded Shot Shells.) No. 24,468; June 6.
- Remington Arms Company, Inc., New York, N. Y., Bridgeport, Conn., and Iliou, N. Y. "Brant Load." (For Loaded Shot Shells.) No. 24,469; June 6.
- Remington Arms Company, Inc., New York, N. Y., Bridgeport, Conn., and Iliou, N. Y. "Rabbit Load." (For Loaded Shot Shells.) No. 24,470; June 6.
- Remington Arms Company, Inc., New York, N. Y., Bridgeport, Conn., and Iliou, N. Y. "Quail Load." (For Loaded Shot Shells.) No. 24,471; June 6.
- Remington Arms Company, Inc., New York, N. Y., Bridgeport, Conn., and Iliou, N. Y. "Goose Load." (For Loaded Shot Shells.) No. 24,472; June 6.
- Remington Arms Company, Inc., New York, N. Y., Bridgeport, Conn., and Iliou, N. Y. "Grouse Load." (For Loaded Shot Shells.) No. 24,473; June 6.
- Remington Arms Company, Inc., New York, N. Y., Bridgeport, Conn., and Iliou, N. Y. "Remington Cutlery." (For Cutlery.) No. 24,545; June 20.
- Remington Arms Company, Inc., New York, N. Y., Bridgeport, Conn., and Iliou, N. Y. "Trap Load." (For Loaded Shot Shells.) No. 24,546; June 20.
- Remington Arms Company, Inc., New York, N. Y., Bridgeport, Conn., and Iliou, N. Y. "Brant Load." (For Loaded Shot Shells.) No. 24,964; Aug. 29.
- Remington Arms Company, Inc., New York, N. Y., Bridgeport, Conn., and Iliou, N. Y. "Duck Load." (For Loaded Shot Shells.) No. 24,965; Aug. 29.
- Remington Arms Company, Inc., New York, N. Y., Bridgeport, Conn., and Iliou, N. Y. "Goose Load." (For Loaded Shot Shells.) No. 24,966; Aug. 29.
- Remington Arms Company, Inc., New York, N. Y., Bridgeport, Conn., and Iliou, N. Y. "Squirrel Load." (For Loaded Shot Shells.) No. 24,967; Aug. 29.
- Remington Arms Company, Inc., New York, N. Y., Bridgeport, Conn., and Iliou, N. Y. "Heavy Duck Load." (For Loaded Shot Shells.) No. 24,968; Aug. 29.
- Remington Arms Company, Inc., New York, N. Y., Bridgeport, Conn., and Iliou, N. Y. "Dove Load." (For Loaded Shot Shells.) No. 25,048; Sept. 12.
- Remo Manufacturing Company, The. (See Rees, Fred.)
- Reparo Company, The, Chicago, Ill. "Reparo." (For Cans in Which Rubber Repairing Outfits Are Sold.) No. 25,433; Dec. 19.
- Republic Metalware Co., The, Buffalo, N. Y. "Savory Steam Double Boiler." (For Steam Double Boilers.) No. 25,320; Nov. 14.
- Requa Bros., Cold Spring Harbor, N. Y. "Requa's Queen Chop." (For Tea.) No. 25,256; Nov. 7.
- Research Club Inc., Chicago, Ill. "Research Brand." (For Parking Lamps.) No. 24,101; Feb. 14.
- Research Club, Inc., Chicago, Ill. "Research Brand." (For Retouching Enamel.) No. 24,274; Apr. 25.
- Rey de la Barba Cigar Co., New York, N. Y. "Rey de la Barba." (For Boxes and Cans Containing Cigars.) No. 24,547; June 20.
- Rich, E. C., Inc., New York, N. Y. "Rich's Gelatin Wine Jelly." (For Gelatine.) No. 24,102; Feb. 14.
- Rich, E. C., Inc., New York, N. Y. "Presto! Jail." (For Gelatine.) No. 24,195; Mar. 14.
- Richards, George, & Company, Chicago, Ill. "Hemco Twin-Lite." (For Plugs or Receptacles for Electric Lamps.) No. 24,811; Aug. 1.
- Richards, George, & Company, Chicago, Ill. "Hemco Electric Health Pad." (For Cartons Containing Heating Pads.) No. 25,383; Nov. 28.
- Richardson Dry Goods Co., St. Joseph, Mo. "Castle." (For Underwear.) No. 24,548; June 20.
- Riddle-McElwain Co., Sabinal, Tex. "Golden Glow Butter." (For Butter.) No. 24,676; July 4.
- Rinker-Deas Paint Co., Augusta, Ga. "Gold Seal." (For Packages Containing Paint.) No. 25,321; Nov. 14.
- Rivera, Guillermo H., doing business as Ponce De Leon Medicine Co., Tampa, Fla. "Ponce de Leon Fountain of Health." (For Medicines for the Nervous Diseases.) No. 25,049; Sept. 12.
- Rivera, Guillermo H., doing business as Ponce de Leon Medicine Company, Tampa, Fla. "Nuxo Toniquee." (For Medicines for Blood Stimulation and the Treatment of Nervous Disorders.) No. 25,322; Nov. 14.
- Robb-Ross Co., Sioux City, Iowa. "Vermont Style Sirup." (For a Sirup Composed of 75% Cane Sugar Sirup and 25% Maple Sirup.) No. 24,103; Feb. 14.
- Robertson Paper Co., Inc., Bellows Falls, Vt. "Cupid Bread." (For Bread.) No. 24,316; May 2.
- Robeson, William A., Saratoga Springs, N. Y. "Victory Coal Save." (For a Composition for Treating Fuel Coal.) No. 24,159; Feb. 28.
- Rodriguez, J., & Bros., Brooklyn, N. Y. "J. Rodriguez & Bros." (For Cigars.) No. 25,345; Nov. 21.
- Rogers, Urbane E., Company, The, Dallas, Tex. "Dish-wash-Soap." (For Cakes of Vegetable-Oil Soap.) No. 24,210; Apr. 4.
- Rohlfing, Louis C., St. Louis, Mo. "Ha-Lo Antiseptic Cylinders, Antiseptic, Healing, Deodorant, Prophylactic." (For Medicinal Preparations for Colds, Grippe, Headache, and Neuralgia.) No. 24,122; Feb. 21.
- Rohlfing, Louis C., doing business as the Ap-Pel-Line Medicine Company. "Ha-Lo Antiseptic Cylinders Antiseptic, Healing, Deodorant, Prophylactic." (For Medicinal Preparations for Female Diseases.) No. 24,677; July 4.
- Rohlfing, Otto A., St. Louis, Mo. "Rohlfing's 5¢ Special." (For Cigars.) No. 25,180; Oct. 17.
- Rolly Chemical Co., Hastings, Nebr. "Rolly's Wonder." (For Complexion Soap.) No. 24,549; June 20.
- Roren, Albert, New York, N. Y. "Pal-a-table." (For Grapefruit.) No. 24,424; May 30.
- Rose Cerate Co., The, Elmira, N. Y. "Darby's Rose Cerate Directions." (For Jars Containing Darby's Rose Cerate.) No. 25,144; Oct. 10.
- Rose Cerate Co., The, Elmira, N. Y. "Darby's Rose Cerate." (For the Cap of Jars Containing Darby's Rose Cerate.) No. 25,233; Oct. 31.
- Rose Cerate Co., The, Elmira, N. Y. "Darby's Rose Cerate." (For Boxes Containing Darby's Rose Cerate.) No. 25,234; Oct. 31.
- Ross, Eva S., New York, N. Y. "Rythm-Gowns." (For Women's Gowns.) No. 25,235; Oct. 31.
- Routledge Bird, Pet and Animal Co., Portland, Oreg. "Routledge." (For Bird Remedies.) No. 24,378; May 16.
- Routledge Bird, Pet and Animal Co., Portland, Oreg. "Routledge." (For Birdseed.) No. 24,379; May 16.
- Royal Footwear Man'g. Co., The, New York, N. Y. "Royal Make." (For Footwear.) No. 24,211; Apr. 4.
- Royal Products Co. (See Cozad, Oscar O.)
- Ruggiero, Antonio, Malden, Mass. "Ruggiero's Dentatura." (For Bottles or Cartons Containing a Mouth Wash.) No. 24,734; July 18.
- Russell Stover Company, Chicago, Ill. "Eskimo Pie." (For Confections.) No. 24,380; May 16.
- Rushmore Paper Mills, Brooklyn and New York, N. Y. "Blue Ribbon Toilet Paper." (For Toilet Paper.) No. 23,935; Jan. 17.
- S. and B. Mfg. Co., Los Angeles, Calif. "Atlas." (For Salad Dressing.) No. 25,384; Nov. 28.
- Saco Valley Canning Co., Portland, Me. "18 Carat." (For Canned Corn.) No. 25,145; Oct. 10.
- Saeng-Xuto, S., Troy, N. Y. "Siamese Ice." (For a Confection.) No. 25,323; Nov. 14.
- Safety First Feeder Co. (See Allen, George H.)
- Sage Brothers Company, Boston, Mass. "Orange Sunshine." (For a Nonalcoholic Beverage.) No. 25,050; Sept. 12.
- Sale and Frazar Ltd. (See Frazar & Company.)
- Sale & Frazar, Ltd., Tokyo, Japan. "Triumph." (For Canned Crab Meat.) No. 24,104; Feb. 14.
- Salisbury, William H., Los Angeles, Calif. "Instantaneous Metal Polish." (For Bottles Containing a Liquid Metal Polish.) No. 24,317; May 2.
- Sands Cocoa Corporation, Brooklyn, N. Y. "Sands Prepared Cocoa Cubes." (For Cocoa.) No. 24,550; June 20.
- Sanford Importing Co., Chicago, Ill. "Chu Chin Powder Puffs." (For a Merchandise Card for Powder Puffs.) No. 24,364; May 9.
- Sanger Bros., Inc., New York, N. Y., and Dallas, Tex. "Silver Standard." (For Cotton Piece Goods.) No. 23,974; Jan. 31.
- Saniwax Paper Co., Kalamazoo, Mich. "Br'er Rabbit." (For Bread.) No. 24,019; Feb. 7.
- Saniwax Paper Co., Kalamazoo, Mich. "Butter Krust." (For Bread.) No. 24,318; May 2.
- Saniwax Paper Co., Kalamazoo, Mich. "Every-Day." (For Bread.) No. 24,595; June 27.

Alphabetical list of registrants of labels—Continued.

- Saniwax Paper Co., Kalamazoo, Mich. "Snow White." (For Bread.) No. 24,596; June 27.
- Saniwax Paper Co., Kalamazoo, Mich. "Daisy." (For Bread.) No. 24,597; June 27.
- Saniwax Paper Co., Kalamazoo, Mich. "Sweet Home." (For Bread.) No. 24,598; June 27.
- Saniwax Paper Co., Kalamazoo, Mich. "Forget-Me-Not." (For Bread.) No. 24,599; June 27.
- Saniwax Paper Co., Kalamazoo, Mich. "White Lily." (For Bread.) No. 24,600; June 27.
- Saniwax Paper Co., Kalamazoo, Mich. "Satin White." (For Bread.) No. 24,601; June 27.
- Saniwax Paper Co., Kalamazoo, Mich. "White Rose." (For Bread.) No. 24,602; June 27.
- Sano Remedy Company, Cleveland, Ohio. "Sano." (For a Rheumatic Remedy and System Tonic.) No. 24,678; July 4.
- Santiago Orange Growers Association, Orange, Calif. "Scepter." (For Oranges.) No. 23,936; Jan. 17.
- Sardou, Inc., New York, N. Y. "Sardou's Beauty Treatment." (For Toilet Cream.) No. 25,257; Nov. 7.
- Sargent, Earl L., Beverly, Mass. "Sprucine." (For Medicinal Ointment.) No. 24,551; June 20.
- Savem Economy Products Co., East Boston, Mass. "Savem." (For a Container for a Compound Used for the Treatment of Fabrics After the Same Have Been Washed.) Nos. 24,679-80; July 4.
- Schall's Inc., Clinton, Iowa. "Chocolate Pie." (For Candy.) No. 24,681; July 4.
- Schmidt, Adam Brewing Company, Norristown, Pa. "Valley Forge Special Malt Extract." (For Malt Extract.) No. 24,552; June 20.
- Schilling A. & Co., San Francisco, Calif. "Black Tea." (For Receptacles for Packaging Tea.) No. 25,434; Dec. 19.
- Schindler, Charles E., Cold Water, Ohio. "Schindler's Health Tone Tablets." (For Laxatives.) No. 24,277; Apr. 25.
- Schneider, Battinus & Simon, Chicago, Ill. "Lady Wear." (For Hair Nets.) No. 24,969; Aug. 29.
- Schneider, Fred M., Blue Island, Ill. "Schneider's Simplex System of Instruction for Violin, Mandolin, and Mandolin-Banjo." (For Instruction Books and Phonograph Records for Use in Teaching Music.) No. 24,860; Aug. 8.
- Schneider, William, Cincinnati, Ohio. "Capitone." (For Hair Dressing.) No. 24,212; Apr. 4.
- Schoenhut, A. Company, The, Philadelphia, Pa. "Schoenhut's Clubby Clowns." (For Boxes in Which Clubby Clowns are Packed.) No. 23,937; Jan. 17.
- Schonhoff, John Z., Baltimore, Md. "Lord Baltimore." (For Ginger Ale.) No. 24,278; Apr. 25.
- Schreiber, Laura B., et al., trustees. (See Estate of Richard Binder.)
- Schulte, D. A., Inc., New York, N. Y. "La Dasca." (For Cigars, Cigarettes, and Tobacco.) No. 24,553; June 20.
- Schulze Baking Company, Chicago, Ill. "A-1 Bread." (For Loaves of Bread.) No. 24,185; Mar. 7.
- Schulze Baking Company, Chicago, Ill. "Bran Bread." (For Loaves of Bread.) No. 24,425; May 30.
- Schulze Baking Company, Chicago, Ill. "Silver Cake." (For Cake.) No. 24,885; Aug. 15.
- Schulze Baking Company, Chicago, Ill. "Golden Cake." (For Cake.) No. 24,886; Aug. 15.
- Schulze Baking Company, Chicago, Ill. "Fruit Cake." (For Cake.) No. 24,887; Aug. 15.
- Schulze Baking Company, Chicago, Ill. "Raisin Cake." (For Cake.) No. 24,888; Aug. 15.
- Schulze Baking Company, Chicago, Ill. "Chocolate Cake." (For Cake.) No. 24,889; Aug. 15.
- Schulze Baking Company, Chicago, Ill. "Marshallow Layer Cake." (For Cake.) No. 24,890; Aug. 15.
- Schulze Baking Company, Chicago, Ill. "Maple Nut Cake." (For Cake.) No. 24,891; Aug. 15.
- Schulze Baking Company, Chicago, Ill. "Tru-Torten Cake." (For Cake.) No. 24,892; Aug. 15.
- Schulze Baking Company, Chicago, Ill. "Schulze Quality Products." (For Bakery Products, Such as Bread, Doughnuts, Biscuit, and Cake.) No. 24,893; Aug. 15.
- Schulze Baking Company, Chicago, Ill. "A-1 Dough-Nuts." (For Doughnuts.) No. 25,385; Nov. 28.
- Schwind Laboratory, The, Le Mars, Iowa. "Dr. Schwind's Rose Healing Salve." (For Salve.) No. 24,682; July 4.
- Scientific Oil Service. (See McArthur, John W.)
- Sciafani & Sons, New York, N. Y. "El Fani." (For Boxes Containing Cigars.) No. 24,683; July 4.
- Scoles, Arthur W., Co. (See Scoles, Arthur W.)
- Scoles, Arthur W., doing business as Arthur W. Scoles Co., Tulsa, Okla. "Contrast." (For a Paint and Varnish Remover.) No. 25,051; Sept. 12.
- Scotland, Bayard S., Joliet, Ill. "Bess." (For Macaroni.) No. 25,146; Oct. 10.
- Scott, George W., Co. (See Scott, George W.)
- Scott, George W., doing business as George W. Scott Co., Cleveland, Ohio. "Scott's Notare Curtain Rod Thin-bles." (For Thinbles for Curtain Rods for the Side Curtains of Automobiles.) No. 25,236; Oct. 31.
- Scott Paper Company, Chester, Pa. "S. P. Co.'s Improved Cabinet Paper." (For Toilet Paper.) No. 24,275; Apr. 25.
- Scott Paper Company, Chester, Pa. "S. P. Co. Improved Patent Cabinet Toilet Paper." (For Toilet Paper.) No. 24,276; Apr. 25.
- Scott Paper Company, Chester, Pa. "Scottissue Towels." (For Paper Towels.) No. 24,970; Aug. 29.
- Scott Paper Company, Chester, Pa. "Scottissue-Towel Holder No. 03." (For Paper Towels.) No. 24,971; Aug. 29.
- Scranton Chemical Company, Scranton, Pa. "Liberty Polish The Perfect Cleaner." (For Metal Polishes.) No. 25,346; Nov. 21.
- Scully, D. B., Syrup Company, Inc., Chicago, Ill. "Trixy." (For Molasses.) No. 23,938; Jan. 17.
- Scully, D. B., Syrup Company, Chicago, Ill. "Tip-Top." (For Apple Jelly.) No. 24,279; Apr. 25.
- Seaboard Lithographing Co. Inc., New York, N. Y. "Reindeer Mills." (For Hose.) No. 25,435; Dec. 19.
- Seaboard Textile Co. Inc., New York, N. Y. "Seaboard." (For Cotton Fabrics.) No. 25,088; Oct. 3.
- Seattle Ice Cream Company. (See Menasha Printing and Carton Company, assignor.)
- Sebastopol Apple Growers Union, Sebastopol, Calif. "Fancy Gravensteins." (For Boxed Apples.) No. 24,554; June 20.
- Seebass Products, Inc., New York, N. Y. "See Saw Sauces." (For Salad Dressing.) No. 25,181; Oct. 17.
- See-Moon & Company, Chicago, Ill. "Bonded." (For Tomatoes.) No. 24,603; June 27.
- See-Moon & Company, Chicago, Ill. "14 in 1." (For Tomatoes.) No. 24,604; June 27.
- Seidel, Martin, Bay City, Mich. "Seidel's Special Pasteurized Creamery Butter." (For Butter.) No. 23,939; Jan. 17.
- Seidner & Hitzgrath, New York, N. Y. "Vogue Hair Net." (For Hair Nets.) No. 24,105; Feb. 14.
- Sell Bros. Pharmacists, Chester, Nebr. "Dandro Solvent." (For a Hair-Tonic Preparation.) No. 25,347; Nov. 21.
- Seltzer, Theodore, West Hoboken, N. J. "Baume Bengue." (For a Medicinal Preparation for Rheumatism, Gout, Neuralgia.) No. 23,940; Jan. 17.
- Seltzer, Theodore, West Hoboken, N. J. "Ben-Gay." (For Medicinal Preparation for Rheumatism, Gout, Neuralgia.) No. 24,762; July 25.
- Shagoury, Abdo. (See Kahaly, C., and Shagoury.)
- Shand, Chas. A., Huntington, W. Va. "System Tone." (For a Proprietary Medicine.) No. 24,365; May 9.
- Shane Bros. & Wilson Co., Minneapolis, Minn. "King Midas." (For Toasted Wheat Cereal.) No. 24,763; July 25.
- Shapiro, Abraham, doing business as Golden Standard Paint & Lead Works, Winnipeg, Manitoba, Canada. "Duksbak." (For Shingle Stains.) No. 25,089; Oct. 3.
- Shapiro, L., & Sons, Baltimore, Md. "Equity Clothes." (For Men's Clothing.) No. 24,215; Apr. 11.
- Sharpless, P. E. Co., Philadelphia, Pa. "Acorn Brand Evaporated Milk." (For Sealed Cans Containing Evaporated Milk.) No. 24,280; Apr. 25.
- Shawmut Mills, Holliston, Mass. "Hampshire Maid Bread." (For Bread.) No. 24,894; Aug. 15.
- Shawmut Mills, Holliston, Mass. "Tommy Tucker Bread." (For Bread.) No. 24,895; Aug. 15.
- Sheffield Pharmacal Co., Chicago, Ill. "Nul." (For a Preparation for Checking Perspiration.) No. 24,896; Aug. 15.
- Sheldon Manufacturing Company, Nehawka, Nebr. "Sheldon the Mixer That Takes the Backache Out of Concrete." (For Concrete Mixers.) No. 24,281; Apr. 25.
- Shepard Chemical Co. Inc., New York, N. Y. "Shepard Fly and Insect Killer." (For a Bottle Containing a Household Insecticide Known as Shepard Fly and Insect Killer.) No. 25,090; Oct. 3.
- Shepard Chemical Co. Inc., New York, N. Y. "Shepard Cattle Spray And Veterinary Liniment." (For Packages Containing an Insect Repellent and Liniment, known as Shepard Cattle Spray and Veterinary Liniment.) No. 25,237; Oct. 31.
- Sherman, Henry L., Boston, Mass. "Po-Ree-Ko." (For Receptacles Containing Comestibles, Including Prepared Grapefruit.) No. 24,812; Aug. 1.
- Shoemaker, Max A., Oswego, N. Y. "Dick's Quinceseed Lotion." (For a Preparation for Chapped Hands.) No. 23,941; Jan. 17.
- Shoenberg, Milton H., doing business as The Litit Co., San Francisco, Calif. "Litit Automobile Electric Cigar Lighter." (For a Counter Card for Displaying Electric Cigar Lighters.) No. 24,605; June 27.
- Short, David L. (See West, Augustus A., assignor.)
- Shults Bread Company, Brooklyn, N. Y. "Shults Cream Bread." (For Shults Bread.) No. 23,942; Jan. 17.
- Shults Bread Company, Brooklyn, N. Y. "Shults Cream Bread." (For Shults's Bread.) No. 25,324; Nov. 14.
- Sibley-Almy Co., Inc., Olean, N. Y. "Royal Taste." (For Coffee.) No. 24,106; Feb. 14.
- Sidebottom Pure Ice Cream & Dairy Company. (See Menasha Printing and Carton Company, assignor.)
- Siom, Conrad, Washington, D. C. "Alaska Patties." (For Patties or Small Pies Consisting of Thin Palatable Crusts or Casings Confectioned in Different Combinations, Filled with Various Flavored Ice Creams, Sherberts, Fruit Ices or Other Frozen Dainties.) No. 24,555; June 20.

Alphabetical list of registrants of labels—Continued.

- Silver Eagle Cigar Factory, Los Angeles, Calif. "Don Domo." (For Boxes and Cans Containing Cigars.) No. 24,972; Aug. 29.
- Silveira & Lorenz, Vallejo, Calif. "S and L Superlative Automobile Polish." (For Bottles, Cans, Cartons, or Other Containers in Which the Automobile Polish is Marketed.) No. 24,861; Aug. 8.
- Simmons, Felix, doing business as Styla Silk Hosiery Co., Worcester, Mass. "Styln." (For Boxes Containing Hosiery.) No. 24,684; July 4.
- Simon, Issor, Wilkes-Barre, Pa. "Look New Simon-1-Polish." (For Bottles of Polish for Silver, Brass, and other Metals.) No. 24,319; May 2.
- Simplicity Mfg. Co., Kalamazoo, Mich. "Kant Kleep Patch." (For Cans Containing Auto Tube or Rubber Patch.) No. 25,325; Nov. 14.
- Sinclair Mfg. Company, The, Toledo, Ohio. "Sinclair's Solvo A Chemical Solvent." (For a Cleaner for Ceramic Materials.) No. 23,975; Jan. 31.
- Sitroux Importing Company, Inc., New York, N. Y. "Fairrest." (For Hair Nets.) No. 24,020; Feb. 7.
- Skookum Packers Association, Wenatchee, Wash. "Satisfactoree." (For Apples.) No. 24,897; Aug. 15.
- Sloan, Dr. Earl S., Incorporated, Wilmington, Del.; New York, N. Y., and St. Louis, Mo. "Dr. Earl S. Sloan's Star Hoof Ointment." (For an Ointment for Horses and Cattle, for Calked Hoofs, Navicular Trouble, Toe Cracks, Corns, and Tender, Brittle, Contracted, Hard, and Dry Feet.) No. 23,872; Jan. 10.
- Sloan, Dr. Earl S., Incorporated, Wilmington, Del.; New York, N. Y., and St. Louis, Mo. "Sloan's Quick Relief." (For a Medicine for Horses and Cattle for Collar and Saddle Galls, Scratches, Grease Heel, Mud Fever, Old Ulcerated Sores, Chafing, Breaching, or Interfering Cuts, and Screw Worms.) No. 23,873; Jan. 10.
- Sloan, Dr. Earl S., Incorporated, Wilmington, Del.; New York, N. Y., and St. Louis, Mo. "Dr. Earl S. Sloan's Horse Powders." (For a Medicine for Horses.) No. 23,874; Jan. 10.
- Sloan, Dr. Earl S., Incorporated, Wilmington, Del.; New York, N. Y., and St. Louis, Mo. "Sloan's Fever and Distemper Tonic." (For a Tonic Remedy for Horses and Cattle.) No. 23,875; Jan. 10.
- Sloan, Dr. Earl S., Incorporated, Wilmington, Del.; New York, N. Y., and St. Louis, Mo. "Sloan's Family Liniment." (For a Liniment Recommended in the Treatment of Muscular Rheumatism, Lumbago, Stiff Neck, Neuralgic Headache, Neuralgia, Sciatica, Sprains, Bruises, Chills, Mosquito Bites, Wind Colic, Muscular Cramp, Bronchial Cough, Spasmodic Croup, and Acute Pleurisy.) No. 23,876; Jan. 10.
- Small, L. K., Company, Los Angeles, Calif. "Derby." (For Oranges.) No. 24,606; June 27.
- Small, L. K., Company, Los Angeles, Calif. "Sweetie." (For Oranges.) No. 24,685; July 4.
- Smith, J. R., Sales Co. Inc., doing business as Consolidated Tuna Fish Company, Los Angeles, Calif. and New York, N. Y. "Ambassador." (For Canned Fish, Sardines.) No. 25,326; Nov. 14.
- Smith-Mills Manufacturing Company, Billings, Mont. "Bayiella." (For Medicinal Beautifier Salve for External Use.) No. 24,973; Aug. 29.
- Smith, Sidney, Chicago, Ill. "Andy Gump Drops." (For Candy.) No. 24,474; June 6.
- Smith, Sidney, Chicago, Ill. "Andy Gump Drops." (For Candy.) No. 24,475; June 6.
- Smucker, J. M., Co., The, Orrville, Ohio. "Smucker's Pure Apple Butter." (For Apple Butter.) No. 24,898; Aug. 15.
- Smucker, J. M., Co., The, Orrville, Ohio. "Smucker's Pure Home Made Style Boiled Apple Cider." (For Boiled Cider.) No. 25,202; Oct. 24.
- Snows Candy Corporation, Chicago, Ill. "Snows." (For Candy.) No. 24,607; June 27.
- Solvos Company, The, Chicago, Ill. "Coulette." (For a Protective Undergarment for Women.) No. 24,556; June 20.
- Solvos Company, The, Chicago, Ill. "Petti-Coulette." (For a Protective Undergarment for Women.) No. 24,557; June 20.
- South Carolina Sweet Potato Association, Florence, S. C. "Carolina Brand." (For Sweet Potatoes.) No. 24,320; May 2.
- South Chicago Wholesale Grocery and Produce Co. Inc., Chicago, Ill. "Paradise." (For Early June Peas.) No. 25,203; Oct. 24.
- Southern Sweet Potato Exchange, Chicago, Ill. "Golden Glow." (For Hand-Selected Sweet Potatoes.) No. 24,107; Feb. 14.
- Southworth, W. P., doing business as North American Honey Distributors, Sioux City, Iowa. "Principally From Sage Blossoms." (For Honey.) No. 24,813; Aug. 1.
- Sperry, J., & Co., Akron, Iowa. "Sperry's Lump Jaw Remedy." (For Bottles and Cartons Containing Sled Preparation.) No. 25,468; Dec. 26.
- Spokane Valley Growers Union, Opportunity, Wash. "Pineland." (For Apples.) No. 24,764; July 25.
- Spokane Valley Growers Union, Opportunity, Wash. "SV." (For Apples.) No. 24,814; Aug. 1.
- Square D. Co., Detroit, Mich. "Square D Safety Switch." (For Electric Switches.) No. 24,735; July 18.
- Standard Chemical Co., (now by change of name Eastbay Chemical Company), Emeryville, Calif. "Ecco Stir Well." (For a Miscible Oil Spray for Orchards and Ornamental Trees.) No. 24,196; Mar. 14.
- Standard Chemical Co., (now by change of name Eastbay Chemical Company), Emeryville, Calif. "Ecco." (For an Antiseptic (uting Compound.) No. 24,282; Apr. 25.
- Standard Laboratories, Inc., Los Angeles, Calif. "Stacomb." (For Hair Pomade.) No. 24,686; July 4.
- Standard Nut Margarine Co., Indianapolis, Ind. "Standard Oleomargarine." (For Oleomargarine.) No. 25,258; Nov. 7.
- Standard Purveyors, Inc., New York, N. Y. "Purveyor." (For Peas.) No. 25,327; Nov. 14.
- Star Merchandise Company, New York, N. Y. "Lasher's." (For All-Silk Taffeta Ribbons.) No. 23,877; Jan. 10.
- Star Merchandise Company, New York, N. Y. "S M Co." (in the Red Star.) "This Stands for Highest Quality, Lowest Prices." (For All-Silk Taffeta Seam Binding.) No. 23,943; Jan. 17.
- Steel, L. R., Company, Inc., Buffalo, N. Y. "Jane Drew." (For Candies.) No. 24,687; July 4.
- Steele Weddles Company, Chicago, Ill. "The Good Kind." (For Canned Corn.) No. 24,381; May 16.
- Steiner, Emil E., Glendale, Calif. "Vegetine." (For a Stomach Relief Remedy.) No. 24,974; Aug. 29.
- Steinfeld Bros., New York, N. Y. "Jewel Freezer." (For Ice-Cream Freezers.) No. 24,862; Aug. 8.
- Stephens (anning Corporation, Oakfield, Wis. "Sweetest Packed." (For Peas.) No. 25,238; Oct. 31.
- Sterling Dairy Products Company, Twin Falls, Idaho. "Sterling Frost Bites." (For Blocks of Ice Cream.) No. 25,348; Nov. 21.
- Sterling Malt & Hop Co., Irvington, N. J. "Sterling Brand." (For Malt Sirup.) No. 24,123; Feb. 21.
- Stern, Joseph, & Sons Inc., New York, N. Y. "Mejor Manteca Pura De Chicharron." (For Lard.) No. 24,558; June 20.
- Stern, Joseph, & Sons, Inc., New York, N. Y. "Hudson Refined Pure Lard." (For Pure Lard.) No. 24,765; July 25.
- Stevens & Dow, Haverhill, Mass. "Sextons Vegetable Pills." (For a Small Box Containing Vegetable Compound Pills for Medicinal Purposes.) No. 25,386; Nov. 28.
- Stevens Point Dairy Products Co. (See Menasha Printing and Carton Company, assignor.)
- Stevens-Wiley Manfg. Co. Inc., The, Philadelphia, Pa. "Rexblue." (For Washing Tablets in Powdered Form.) No. 24,559; June 20.
- Stimpson, Edwin B., Company, Brooklyn, N. Y. "Split Rivets." (For Rivets.) No. 25,091; Oct. 3.
- Stimpson, Edwin B., Company, Brooklyn, N. Y. "Forked Rivets." (For Rivets.) No. 25,092; Oct. 3.
- Stimpson, Edwin B., Company, Brooklyn, N. Y. "Split Rivets." (For Rivets.) No. 25,093; Oct. 3.
- Stoner, Harry L., Portland, Oreg. "U-Need-It Polish." (For Furniture and Automobile Polish.) No. 25,328; Nov. 14.
- Street, C. M., St. Louis, Mo. "P. M. F." (For Artificial Mineral Water.) No. 25,094; Oct. 3.
- Strong, John L., Sioux City, Iowa. "Arctic Ice Cream Bar." (For Chocolate Coated Confection Bars.) No. 24,321; May 2.
- Strong, John L., Sioux City, Iowa. "Coney Island Ice Cream Bar." (For Chocolate Coated Confection Bars.) No. 24,322; May 2.
- Sturdivant, Franklin, Brownsville, Tenn. "Old Virginia Brunswick Stew." (For Canned Old Virginia Brunswick Stew.) No. 24,736; July 18.
- Styln Silk Hosiery Co. (See Simmons, Felix.)
- Sultenfuss, G. M., & Co. (See Sultenfuss, George M.)
- Sultenfuss, George M., doing business as G. M. Sultenfuss & Co. "Two Way Service." (For Table Salt.) No. 24,608; June 27.
- Summit Varnish Company, Chicago, Ill. "Gem-O-Lac a Varnish Stain." (For Wood Finishes.) No. 23,878; Jan. 10.
- Summit Varnish Company, Chicago and Summit, Ill. "Summit Varnish Company." (For Wood Finishes.) No. 24,021; Feb. 7.
- Sunny Susan Laboratories, Inc., Buffalo, N. Y. "Sunny Susan Freckle Cream." (For Freckle Cream.) No. 25,399; Dec. 5.
- Sunset Fruit Company, Lodi, Calif. "Sunset." (For Fresh Grapes.) No. 25,239; Oct. 31.
- Sunshine Macaroni Mfg. Co., Inc., Brooklyn, N. Y. "Sunshine Macaroni." (For Macaroni.) No. 24,737; July 18.
- Surbrug Chocolate Corporation. (See Surbrug, John W.)
- Surbrug, John W., doing business as the Surbrug Chocolate Corporation, New York, N. Y. "At-Ta Boy!" (For Chocolate Candy.) No. 25,400; Dec. 5.
- Sussman, Wormser & Co., San Francisco, Calif. "Century." (For Canned String Beans.) No. 24,366; May 9.
- Sussman, Wormser & Co., San Francisco, Calif. "18 Karat." (For Canned Peas.) No. 24,367; May 9.
- Sussman, Wormser & Co., San Francisco, Calif. "S and W." (For Canned Peaches.) No. 24,382; May 16.
- Sussman, Wormser & Co., San Francisco, Calif. "S and W." (For Canned Corn.) No. 24,383; May 16.
- Sussman, Wormser & Co., San Francisco, Calif. "S and W." (For Canned Peas.) No. 24,384; May 16.

Alphabetical list of registrants of labels—Continued.

- Sussman, Wormser & Co., San Francisco, Calif. "S and W." (For Canned Asparagus.) No. 24,385; May 16.
- Sussman, Wormser & Co., San Francisco, Calif. "S and W." (For Canned Apricots.) No. 24,386; May 16.
- Sussman, Wormser & Co., San Francisco, Calif. "S and W." (For Canned Tomatoes.) No. 24,387; May 16.
- Sussman, Wormser & Co., San Francisco, Calif. "S and W." (For Fruit Salad.) No. 24,388; May 16.
- Sussman, Wormser & Co., San Francisco, Calif. "S and W." (For Canned Pineapple.) No. 24,389; May 16.
- Sussman, Wormser & Co., San Francisco, Calif. "S and W." (For Canned Cherries.) No. 24,390; May 16.
- Swan Bros., Inc., Knoxville, Tenn. "Swan's Holsum Bread." (For Bread.) No. 25,436; Dec. 19.
- Swander Baking Company, Rapid City, S. Dak. "Brownie." (For Bread.) No. 24,975; Aug. 29.
- Swanson, C., & Sons, Mankato, Minn. "Lighting Drain-eze." (For a Preparation for Cleaning Drain Pipes.) No. 24,022; Feb. 7.
- Sweet Candy Company, Salt Lake City, Utah. "Sweet's Lady Claire Chocolates." (For Chocolate.) No. 24,688; July 4.
- Sweet, William H., Company, The, Columbus, Ohio. "Wafer-Lax." (For a Carton which Contains a Bottle with an Average of Thirty-Two Wafers Contained Therein.) No. 24,689; July 4.
- Sweets Company of America, Inc., The, Richmond, Va., and New York, N. Y. "Tootsie Wintergreen." (For Candy Mints with Wintergreen Flavor.) No. 24,976; Aug. 29.
- Sweets Company of America, Inc., The, Richmond, Va., and New York, N. Y. "Tootsie Peppermint." (For Candy Mints Flavored with Peppermint.) No. 24,977; Aug. 29.
- Taylor, J. L. Co., The, Los Angeles, Calif. "Old Taylor." (For Cantaloupes.) No. 24,815; Aug. 1.
- Teddy Multiplication Game Company, The, Cleveland, Ohio. "Play Teddy's Multiplication Game It Multiplies Your Abilities." (For Playing-Cards.) No. 24,126; Feb. 21.
- Texas Star Flour Mills, Galveston, Tex. "Estrella." (For Wheat Flour.) No. 23,944; Jan. 17.
- Texas Star Flour Mills, Galveston, Tex. "Capitana." (For Wheat Flour.) No. 23,945; Jan. 17.
- Texas Tomato Growers Exchange, Tyler, Tex. "Blue Bonnet Brand East Texas Tomatoes." (For Tomatoes.) No. 24,391; May 16.
- Thayer, Allan C., Detroit, Mich. "A C T Chemical Products." (For Pieces of Paper or Other Material, Which are to be Attached to Bottles, Boxes, or Packages Containing Chemical Articles of Manufacture.) No. 24,738; July 18.
- Theard, Thomas A., Indianapolis, Ind. "Cyclone Cleaner." (For a Cleaning Compound.) No. 24,690; July 4.
- Thomas, Aress, Chicago, Ill. "La Melda." (For Cigars.) No. 25,387; Nov. 28.
- Thompson & Company, Tampa, Fla. "Thompson & Company." (For Cigars.) No. 24,899; Aug. 15.
- Tieberman, Julius F., Cincinnati, Ohio. "Cotton-Top." (For a Nonintoxicating Beverage.) No. 24,560; June 20.
- Tillman Cigar Co., Natchez, Miss. "Tillman's Seal Havana." (For the Inside Lid of Cigar Boxes.) No. 24,476; June 6.
- Tillman Cigar Co., Natchez, Miss. "Tillman's Seal Havana." (For the Ends of Cigar Boxes.) No. 24,477; June 6.
- Titus, Lincoln G., Cleveland, Ohio. "Moose." (For Trousers.) No. 24,323; May 2.
- Tomson, P. C., & Co., Philadelphia, Pa. "Red Seal Chlorinated Lime." (For Cans Containing the Same.) No. 23,946; Jan. 17.
- Tophams, Washington, D. C. "Tophams." (For Trunks, Chests, Sample Cases, Record-Carrying Cases, Traveling Cases, Suit Cases, Brief Cases, Traveling Bags, Mail Bags, and Golf Bags.) No. 23,879; Jan. 10.
- Towne, George W., doing business as Pettijohn Pure Products Co., Minneapolis, Minn. "The Pioneer Of 'Em All." (For Breakfast Barley.) No. 25,437; Dec. 19.
- Townsend Co., The, Shelbyville, Del. "Del-Riches Brand Green-Cut Stringless Beans." (For Cans Containing Stringless Beans.) No. 24,816; Aug. 1.
- Treo Company, Inc., Jamaica, N. Y. "Treo" Sport-elette." (For Elastic Corsets.) No. 25,438; Dec. 19.
- Tri-Star Noodle Factory, Chicago, Ill. "Chinese Maid." (For Noodles.) No. 24,109; Feb. 14.
- Triplett, Joseph I., Woodstock, Va. "J. I. Triplett's Champion." (For Wheat Flour.) No. 24,108; Feb. 14.
- Trommer, John F., Inc., Brooklyn, N. Y. "Trommer's Malt Brew." (For Malt Beverages Containing Less Than One-Half of One Per Cent Alcohol.) No. 23,947; Jan. 17.
- Tropic-Tart Co., Honolulu, Hawaii. "Tropic-Tart." (For a Frozen Fruit Product.) No. 25,204; Oct. 24.
- Tropical Date Company Inc., The, doing business as Valley Packing Association, Thermal, Calif. "Dos Palmas (Two Palms)." (For Dates.) No. 25,349; Nov. 21.
- Tronche, Paul E., Charleston, S. C. "Cotton Fibre." (For Toilet Paper.) No. 24,124; Feb. 21.
- True Shape Hosiery Co., Philadelphia, Pa. "True Shape." (For Hosiery for Men.) No. 24,978; Aug. 29.
- True Shape Hosiery Co., Philadelphia, Pa. "True Shape." (For Hosiery for Ladies.) No. 24,979; Aug. 29.
- True Shape Hosiery Co., Philadelphia, Pa. "True Shape." (For Hosiery for Men.) No. 24,980; Aug. 29.
- True Shape Hosiery Co., Philadelphia, Pa. "True Shape." (For Hosiery for Ladies.) No. 24,981; Aug. 29.
- Tschirgl, Charles C., Cedar Rapids, Iowa. "Magnus Malt." (For Malt.) No. 25,095; Oct. 3.
- Turlington Chemical Company, The, Baltimore, Md. "Tri-une." (For a 3 in 1 Remedy for Tender Sweaty Feet, Perspiration Odors, Calli, and Corns.) No. 24,561; June 20.
- Turner Sales Co., The. (See Osbaldeston, Frank T.)
- Tuuri, Matti, Fairport Harbor, Ohio. "Fresh Fine Cakes." (For Cakes.) No. 24,127; Feb. 21.
- 20th Century Tire Protector Co., Midlothian, Tex. "Grizzly Grip." (For White Rubber Patch.) No. 24,710; July 11.
- Tykac, Charles, Chicago, Ill. "Tykac's Liniment." (For Preparations for the Treatment of Rheumatic and Inflammatory Troubles.) No. 23,880; Jan. 10.
- U. S. Neckwear Co., Boston, Mass. "TyRite." (For Ladies' and Men's Ties.) No. 24,562; June 20.
- United Dairy Co., The, Barnesville, Ohio. "United Evaporated Milk." (For Cans Containing Evaporated Milk.) No. 23,976; Jan. 31.
- United Hosiery Mills Corporation, Chattanooga, Tenn. "Buster Brown." (For Hosiery.) No. 23,977; Jan. 31.
- United Roofing Contractors Association, Chicago, Ill. "U R C A Roofing Material Formerly A-R-A and National Association of Roofing Contractors." (For Roofing Material.) No. 24,160; Feb. 28.
- United States Macaroni Company, Los Angeles, Calif. "Alberto Brand." (For Containers for Macaroni.) No. 25,096; Oct. 3.
- Universal Products Co., Los Angeles, Calif. "O-So-Clean." (For Cleaning White-Enamel Woodwork, Porcelain, Marble, Glass, etc.) No. 24,324; May 2.
- Universal Products Co., Los Angeles, Calif. "Kill-O-Pest." (For a Liquid Disinfectant for Destroying Ants, Moths, Flies.) No. 24,739; July 18.
- Universal Products Co., Los Angeles, Calif. "Hi-Glo." (For a Polish for Hardwood Floors, White Woodwork, Furniture, Planos, Oil Paintings, Automobiles.) No. 25,022; Sept. 5.
- University Records Corporation, New York, N. Y. "Official Record Delta Upsilon." (For Phonograph Records.) No. 25,350; Nov. 21.
- University Records Corporation, New York, N. Y. "Official Record Delta Tau Delta." (For Phonograph Records.) No. 25,351; Nov. 21.
- University Records Corporation, New York, N. Y. "Official Record Sigma Alpha Epsilon." (For Phonograph Records.) No. 25,352; Nov. 21.
- University Records Corporation, New York, N. Y. "Official Record Phi Gamma Delta." (For Phonograph Records.) No. 25,353; Nov. 21.
- University Records Corporation, New York, N. Y. "Official Record Kappa Alpha." (For Phonograph Records.) No. 25,469; Dec. 26.
- University Records Corporation, New York, N. Y. "Official Record Delta Kappa Epsilon." (For Phonograph Records.) No. 25,470; Dec. 26.
- University Records Corporation, New York, N. Y. "Official Record Alpha Tau Omega." (For Phonograph Records.) No. 25,471; Dec. 26.
- Utnahmer, H. F., Pittsburgh, Pa. "Glis'n." (For Containers for a Luster and Protector of Painted, Varnished, and Enamelled Surfaces.) No. 24,283; Apr. 25.
- Valley Butter Company. (See Menasha Printing and Carton Company, assignor.)
- Valley Packing Association. (See Tropical Date Company Inc.)
- Vander Bie, J. C. (See Menasha Printing and Carton Company, assignor.)
- Van Ess Laboratories, Inc., Chicago, Ill. "Van Ess Liquid Scalp Massage." (For Medical Preparation for the Treatment of the Hair and Scalp.) Nos. 24,563-4; June 20.
- Van Ess Laboratories, Inc., Chicago, Ill. "Van Ess Special Dandruff Massage." (For Medical Preparation for the Treatment of the Hair and Scalp.) Nos. 24,565-6; June 20.
- Varno Company, San Francisco, Calif. "Varno." (For Cans and Bottles Containing Polishes for Leather, Automobiles, Safes, Furniture, or Any Surface Varnished with Fossil Gum Varnish.) No. 23,978; Jan. 31.
- Vernoy Chemical Company. (See Green, William T.)
- Vincennes Milk & Ice Cream Co., Vincennes, Ind. "Tip Top Quality Moo-Kow." (For Chocolate-Coated Ice-Cream Bar.) No. 24,426; May 30.
- Virden Packing Company, South San Francisco and Oakland, Calif. "Virden's Dinty Moore" (For Cooked Corned Beef.) No. 24,478; June 6.
- Virden Packing Company, South San Francisco, Calif. "Virden's Thrift." (For Meat Loaf.) No. 24,609; June 27.
- Virden Packing Company, South San Francisco, Calif. "Virden's Thrift." (For Cooked Corn Beef.) No. 24,691; July 4.
- Virginia Dare Company, The, Baltimore, Md. "Virginia Dare." (For Candy and Chocolate Eggs.) No. 24,213; Apr. 4.

- Viscardi, Anthony P., New York, N. Y. "Vis-Lax." (For Laxative Tablets.) No. 24,110; Feb. 14.
- Vitamin Food Co. Inc., New York, N. Y. "Vitafood." (For Tonic Foods.) No. 24,161; Feb. 28.
- Vitamin Food Co. Inc., New York, N. Y. "Vegex Almonds." (For a Vitamine Food Preparation.) No. 24,610; June 27.
- Vitamin Food Co. Inc., New York, N. Y. "Vitaminized Fruit Wafers." (For Vitamine Food Preparation.) No. 24,817; Aug. 1.
- Vitamin Food Co. Inc., New York, N. Y. "Vegex Almonds." (For a Vitamine Food Preparation.) No. 24,818; Aug. 1.
- Vitamine Malted Milk Co., Frankfort, Ind. "Vitamine." (For a Nonalcoholic Beverage Comprising a Preparation for Malted Milk Beverage.) No. 24,284; Apr. 25.
- Vi-Tone Products Co., The, Albany, N. Y. "Vita-Lax Pills." (For a Wooden Pill Box.) No. 25,472; Dec. 26.
- Voegele & Dinning Co., The, Mansfield, Ohio. "Dainty Specialties." (For Candy.) No. 23,948; Jan. 17.
- Von Schuetz, Samuel F., doing business as North American Honey Distributors, Council Bluffs, Iowa. "Pure Honey." (For Honey.) No. 24,766; July 25.
- W. F. Young, Inc., Springfield, Mass. "Absorbine, Jr. The Antiseptic Liniment." (For Absorbine, Jr. Liniment.) No. 25,026; Sept. 5.
- Wabasha Roller Mill Company, Wabasha, Minn. "Big Jo." (For Bread.) No. 24,611; June 27.
- Wagner Pastry Co., The, Newark, N. J. "Mrs. Wagner's Famous Home-Made Pies." (For Pies.) No. 24,125; Feb. 21.
- Wahl, Jno. J., Chattanooga, Tenn. "Ching Ling Pudding." (For Ice Cream and Ice-Cream Fruit Compounds.) No. 25,329; Nov. 14.
- Wahl, M., & Son, New York, N. Y. "Lady Jane." (For Hair Nets.) No. 24,692; July 4.
- Waitt & Bond, Inc., Newark, N. J. "Totem." (For Cigars.) No. 24,368; May 9.
- Waitt & Bond, Inc., Newark, N. J. "Blackstone." (For Cigars.) No. 24,369; May 9.
- Waitt & Bond, Inc., Newark, N. J. "Endicott." (For Cigars.) No. 24,370; May 9.
- Walters, Henry V., Long Branch, N. J. "Lofa." (For Bread.) No. 24,111; Feb. 14.
- Walters, R. S., Co. (See Walters, Russell S.)
- Walters, Russell S., doing business as R. S. Walters Co., Clinton, Iowa. "Walters Hoky-Poky Ice Cream Chocolate Cover Candy." (For Candy.) No. 25,401; Dec. 5.
- Walther, Louis, Manufacturing Company, Philadelphia, Pa. "Challaine." (For Textile Fabrics.) No. 25,025; Sept. 5.
- Walther, Louis, Manufacturing Company, Philadelphia, Pa. "Bordr-Lana." (For Textile Fabrics.) No. 25,097; Oct. 3.
- Walther, Louis, Manufacturing Company, Philadelphia, Pa. "Cleovella." (For Textile Fabrics.) No. 25,098; Oct. 3.
- Walther, Louis, Manufacturing Company, Philadelphia, Pa. "Casha Plaid." (For Woven Woolen Coating Fabrics.) No. 25,354; Nov. 21.
- Ward Baking Company, New York, N. Y. "Ward's Home-spun Bread." (For Bread.) No. 24,162; Feb. 28.
- Ward Baking Company, New York, N. Y. "Homelike." (For Cake.) No. 24,325; May 2.
- Ward Baking Company, New York, N. Y. "Banquet." (For Macaroons.) No. 24,371; May 9.
- Ward Baking Company, New York, N. Y. "Ward's Soft Bun Bread." (For Bread.) No. 24,372; May 9.
- Ward Baking Company, New York, N. Y. "Ward's Vitovim Bread." (For Bread.) No. 25,439; Dec. 19.
- Ward Baking Company, New York, N. Y. "Ward's Double XX Milk Bread." (For Bread.) No. 25,473; Dec. 26.
- Warner, William R. & Co., Inc., Wilmington, Del., New York, N. Y., and St. Louis, Mo. "Ingluvin." (For a Powder Indicated for Indigestion, Dyspepsia, Nausea, etc.) No. 24,286; Apr. 25.
- Washington Accessories Co., Washington, D. C. "Oilzwell." (For Oil.) No. 25,388; Nov. 28.
- Wason Bros., Seattle, Wash. "Wason's Better." (For Coffee.) No. 24,285; Apr. 25.
- Watkins and Kemp Cigar Company, Key West, Fla. "Key West Repeater." (For Cigars.) No. 24,112; Feb. 14.
- Waxwell Paper Company, Grand Rapids, Mich. "Home Made." (For Bread.) No. 24,023; Feb. 7.
- Waxwell Paper Company, Grand Rapids, Mich. "Peerless." (For Bread.) No. 24,024; Feb. 7.
- Waxwell Paper Company, Grand Rapids, Mich. "Home Made." (For Bread.) No. 24,025; Feb. 7.
- Waxwell Paper Company, Grand Rapids, Mich. "Milk Maid." (For Bread.) No. 24,026; Feb. 7.
- Waxwell Paper Company, Grand Rapids, Mich. "Farm House." (For Bread.) No. 24,027; Feb. 7.
- Waxwell Paper Company, Grand Rapids, Mich. "Perfection." (For Bread.) No. 24,028; Feb. 7.
- Waxwell Paper Company, Grand Rapids, Mich. "Golden Glow." (For Bread.) No. 24,029; Feb. 7.
- Waxwell Paper Company, Grand Rapids, Mich. "Treasure Loaf." (For Bread.) No. 24,427; May 30.
- Waxwell Paper Company, Grand Rapids, Mich. "Harvest." (For Bread.) No. 24,479; June 6.
- Weiner, Morris, Worcester, Mass. "Economy Pants." (For Men's, Youths', and Boy's Trousers.) No. 25,389; Nov. 28.
- Weisberg, Benjamin, Philadelphia, Pa. "Wise Bow." (For Neckties.) No. 24,186; Mar. 7.
- Welch Grape Juice Company, The, Westfield, N. Y. "Grape Raspberry Jam." (For a Spread or Jam for Bread, Toast, and Muffins.) No. 24,480; June 6.
- Welch Grape Juice Company, The, Westfield, N. Y. "Cherrilade." (For a Spread or Jam for Bread, Toast, and Muffins.) No. 25,205; Oct. 24.
- Welch Grape Juice Company, The, Westfield, N. Y. "Rasberilade." (For a Spread or Jam for Bread, Toast, and Muffins.) No. 25,206; Oct. 24.
- Welch Grape Juice Company, The, Westfield, N. Y. "Peachlade." (For a Spread or Jam for Bread, Toast, and Muffins.) No. 25,207; Oct. 24.
- Welch Grape Juice Company, The, Westfield, N. Y. "Tomato Catsup." (For Catsup.) No. 25,208; Oct. 24.
- Welch Grape Juice Company, The, Westfield, N. Y. "Blackberilade." (For a Spread or Jam for Bread, Toast, and Muffins.) No. 25,209; Oct. 24.
- Welch Pharmacy, Inc. (See Kaufmann, G. P., and Henrionnet.)
- Wells-Chief Creamery Co., The. (See Menasha Printing and Carton Company, assignor.)
- Wells-Chief Creamery Co. (See Menasha Printing and Carton Company, assignor.)
- Wenatchee District Co-Operative Association, Wenatchee, Wash. "Jim Dandy." (For Fresh Apples.) No. 23,894; Jan. 17.
- Wenatchee District Co-Operative Association, Wenatchee, Wash. "Jim Hill." (For Fresh Apples.) No. 24,113; Feb. 14.
- Wenatchee Okanogan Warehousing Co., Pateros, Wash. "Met-How." (For Apples.) No. 24,428; May 30.
- West, Augustus A., doing business as West Electric Hair Curler Co., assignor to D. L. Short, Philadelphia, Pa. "All-Season Veil." (For Veils.) No. 24,740; July 18.
- West, Augustus A., assignor to D. L. Short, Philadelphia, Pa. "Classique." (For Hair Nets.) No. 24,863; Aug. 8.
- West, Augustus A., assignor to D. L. Short, Philadelphia, Pa. "The Every-Day Net." (For Hair Nets.) No. 24,864; Aug. 8.
- West, Augustus A., assignor to D. L. Short, Philadelphia, Pa. "Town and Country Nets." (For Hair Nets.) No. 24,865; Aug. 8.
- West, Augustus A., assignor to D. L. Short, Philadelphia, Pa. "Simplicity." (For Hair Nets.) No. 24,866; Aug. 8.
- West Coast Grocery Company, Tacoma, Wash. "Amocat." (For Apricots.) No. 24,114; Feb. 14.
- West Electric Hair Curler Co. (See West, Augustus A.)
- Western Bottle Manufacturing Company, Chicago, Ill. "Gainsborough Powder Puff." (For Powder Puffs.) No. 24,287; Apr. 25.
- Western New York Fruit Growers' Co-Operative Packing Ass'n, Inc., Rochester, N. Y. "Cataract Brand." (For Fresh Fruits.) No. 24,767; July 25.
- Western New York Fruit Growers' Co-Operative Packing Ass'n, Inc., Rochester, N. Y. "Yorkwin." (For Fresh Fruit.) No. 24,900; Aug. 15.
- Western Tablet & Stationery Company, St. Joseph, Mo. "Hy Tone Linen." (For Stationery.) No. 25,052; Sept. 12.
- Western Tablet and Stationery Company, St. Joseph, Mo. "U-Write—56—Writing Tablets." (For Boxes Containing Writing Tablets.) No. 25,240; Oct. 31.
- Wheeler, Robert B., New York, N. Y. "Musical Health Builders. The 'Daily Dozen'." (For Phonograph Records.) No. 23,881; Jan. 10.
- Wheeler, Robert B., doing business as "Pat" Wheeler, Brooklyn, N. Y. "Pat Wheeler's Musical Weight Reducer." (For Phonograph Records.) No. 25,355; Nov. 21.
- Whisco Punch Co. (See Hove, Stephen M.)
- White, Clinton R., Chicago, Ill. "Kinzie." (For Toilet Paper.) No. 24,288; Apr. 25.
- White, Clinton R., Chicago, Ill. "Edgewater." (For Toilet Paper.) No. 24,289; Apr. 25.
- White, R. D., Los Angeles, Calif. "Lucky 13." (For Containers of Medicine Used as a Bowel Regulator.) No. 25,024; Sept. 5.
- White Sulphur Springs, Inc., White Sulphur Springs, Va. "W S S Water." (For Mineral Waters.) No. 24,373; May 9.
- White Sulphur Springs, Inc., White Sulphur Springs, W. Va. "White Sulphur Springs Water." (For Mineral Water.) No. 24,982; Aug. 29.
- White Sulphur Springs, Inc., White Sulphur Springs, W. Va. "Alvon Water." (For Mineral Waters.) No. 25,099; Oct. 3.
- White & Wyckoff Mfg. Co., Holyoke, Mass. "Enchantment Linen." (For Boxes of Stationery.) No. 24,326; May 2.
- White & Wyckoff Mfg. Co., Holyoke, Mass. "Holland Fabric Finish." (For Boxes of Stationery.) No. 24,327; May 2.
- White & Wyckoff Mfg. Co., Holyoke, Mass. "De Pree Quality Lawn." (For Boxes of Stationery.) No. 24,328; May 2.

Alphabetical list of registrants of labels—Continued.

- White & Wyckoff Mfg. Co., Holyoke, Mass. "Pierrette." (For Boxes of Stationery.) No. 24,329; May 2.
- White & Wyckoff Mfg. Co., Holyoke, Mass. "Olde Harlem." (For Boxes of Stationery and Writing Tablets.) No. 24,374; May 9.
- White & Wyckoff Mfg. Co., Holyoke, Mass. "Linen Torchon Fabric Finish." (For Boxes of Stationery, Writing Tablets, Pound Papers, and Envelopes.) No. 25,025; Sept. 5.
- White & Wyckoff Mfg. Co., Holyoke, Mass. "Flax Wheel Homespun Linen." (For Boxes of Stationery, Writing Tablets, Pound Papers, and Envelopes.) No. 25,147; Oct. 10.
- Whiting, F. T., and J. A. Martin, Charleston, W. Va. "Whiting's Liniment." (For Bottles Containing Liniment.) No. 24,392; May 16.
- Widlar Co., The, Cleveland, Ohio. "Widlar's Genuine." (For Mocha and Java Coffee.) No. 24,768; July 25.
- Wielich, Albert, New York, N. Y. "Witchcraft Malt Extract." (For Malt Extracts.) No. 23,979; Jan. 31.
- Wielich, Albert, New York, N. Y. "Lighthouse Malt Sirup." (For Malt Extracts.) No. 24,115; Feb. 14.
- Wielich, Albert, Steubenville, Ohio. "Premier Malt Extract." (For Malt Extracts.) No. 24,188; Mar. 7.
- Wielich, Albert, New York, N. Y. "Pyramid Malt Extract." (For Malt Extracts.) No. 24,429; May 30.
- Wilbert Products Co., The, New York, N. Y. "Wilbert's Housework Ammonia." (For Bottles and other Receptacles Containing Ammonia.) No. 24,128; Feb. 21.
- Williams, Brown & Earle Inc., Philadelphia, Pa. "Photoplan Paper." (For Label for Said Paper.) No. 24,819; Aug. 1.
- Williams, E. C., Merced, Calif. "Un Kist Honey Sweetheart Of The Flowers." (For Honey Containers.) No. 25,100; Oct. 3.
- Williar, Henry R., San Francisco, Calif. "The World's Finest Fruit." (For Fruit Wrappers.) No. 24,741; July 18.
- Wills, George, and Sons, Ltd., London, England, and San Francisco, Calif. "Visible." (For Canned Apricots.) No. 24,983; Aug. 29.
- Wilson, Albert R. (See Kean, O., and Wilson.)
- Windmill Food Products Company, New York, N. Y. "Famous 41." (For French Dressing.) No. 25,148; Oct. 10.
- Wippner-Weil Company, The, Cleveland, Ohio. "Ye Black Crow Inn." (For Coffee.) No. 24,187; Mar. 7.
- Wiss, J. & Sons Co., Inc., Newark, N. J. "Wiss." (For Boxes Containing Shears, Scissors, and Snips.) No. 25,440; Dec. 19.
- Withers Brothers, Los Angeles, Calif. "Sombrero." (For Canteen.) No. 24,769; July 25.
- Wolf, Geo. E., Chicago, Ill. "Geo. E. Wolf Cocktail Brand Sauer Kraut Juice." (For Sauerkraut Juice, Cans.) No. 25,356; Nov. 21.
- Wolf, Geo. E., Chicago, Ill. "Geo. E. Wolf Health Brand Sauer Kraut." (For Sauerkraut, Cans.) No. 25,357; Nov. 21.
- Wood, A. P. Co., Los Angeles, Calif. "Dragon Pearls." (For Pearl Necklace.) No. 25,390; Nov. 28.
- Woodward & Cochey, Inc., Lynn, Mass. "Autotrim." (For Automobiles and Furniture Upholstery.) No. 24,163; Feb. 28.
- Wool, F. G., Packing Company, San Jose, Calif. "Wool's." (For Fruit Salad.) No. 24,567; June 20.
- Wool, F. G., Packing Company, San Jose, Calif. "Sundipt." (For Fruit Salad.) No. 25,402; Dec. 5.
- Wooleather Corp., Salem, Mass. "Dust-O-Mit." (For Dusters.) No. 24,290; Apr. 25.
- Worcester Salt Company, New York, N. Y. "The Picnic Pack." (For Packages of Table Salt.) No. 25,241; Oct. 31.
- Worch, Albert, St. Paul, Minn. "Justrite." (For Cigars, Cigarettes, and Tobacco.) No. 24,189; Mar. 7.
- Wow Sales Co., Davenport, Iowa. "Wow!" (For Box Containing a Game.) No. 25,149; Oct. 10.
- Wray Brothers Creamery. (See Menasha Printing and Carton Company, assignor.)
- Wrede and Lange, New York, N. Y. "Welcome Brand." (For Bay Rum.) No. 25,101; Oct. 3.
- Wrigley Pharmaceutical Co., Philadelphia, Pa. "The Test That Proves Spearmint Tooth Paste Good for Children—and Grown Ups Too!" (For Tooth Paste.) No. 24,867; Aug. 8.
- Wright & Parker Co., Detroit, Mich. "Gold Chain." (For Egg Cartons.) No. 24,901; Aug. 15.
- Wyandotte Olive Growers Association, Oroville, Calif. "Wyandotte." (For California Ripe Olives.) No. 24,430; May 30.
- Wyman, Partridge & Co., Minneapolis, Minn. "Real Flax Dew Bleach." (For Handkerchiefs.) No. 24,568; June 20.
- Wynne Bros., Elmira, N. Y. "Wynnes' Rising-Mist Salve." (For Salve.) No. 24,197; Mar. 14.
- York Import Company, The, New York, N. Y. "Re-Nown Hair Net." (For Hair Nets.) No. 24,214; Apr. 4.
- Yost, A., & Son, Johnston, Pa. "Sweet Wheat Bread." (For Bread.) No. 24,569; June 20.
- Young, Chas. W., & Co., Philadelphia, Pa. "Removes Grease and Grime In Double-Quick Time." (For Hand Soap.) No. 25,403; Dec. 5.
- Zeldenrust, H. M., Co., Inc., Bethlehem, Pa. "Don Mazaro." (For Boxes Containing Cigars.) No. 24,291; Apr. 25.
- Zenith Polish Company, The. (See Cagan, Charles.)
- Ziegler, Geo., Co., Milwaukee, Wis. "Ziegler's Aero Kisses." (For Candy Kisses.) No. 24,742; July 18.
- Zinsmaster, M., Des Moines, Iowa. "Husky Graham Bread." (For Bread.) No. 24,693; July 4.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

- Acme Drug Co., Flint, Mich. "Cas-Pirin." (For Advertising Purposes for Medicine for Colds, La Grippe, Influenza, Headache.) No. 6,154; June 18.
- Adler, H., & Bro., New York, N. Y. "Ribbons." (For Advertising Purposes for Ribbons.) No. 5,992; Feb. 28.
- Adler, H. & Bro., New York, N. Y. "X X X." (For Advertising Purposes for Hair Bow Ribbons.) No. 6,096; May 9.
- Allen, Edgar W., San Jose, Calif. "Allen's Automobile Light Shades." (For Advertising Purposes for Adjustable and Flexible Light Shades to Protect the Driver of an Automobile Coming from the Opposite Direction which may be Adjusted to Either Side of the Lights as may be Required.) No. 6,070; Apr. 25.
- America Narrow Fabric Co., Providence, R. I. "American Brand Corset Laces." (For Advertising Purposes for Corset Laces.) No. 5,981; Feb. 21.
- American Bosch Magneto Corporation, Springfield, Mass. "Bosch Compensating Battery Ignition." (For Advertising Purposes for Ignition Apparatus.) No. 5,915; Jan. 17.
- American Lead Pencil Company, New York, N. Y. "Venus Everpointed." (For Advertising Purposes for Mechanical Pencils.) No. 5,916; Jan. 17.
- American Lead Pencil Co., New York, N. Y. "Venus Pencils." (For Advertising Purposes for Venus Pencils.) No. 6,019; Mar. 14.
- American Lead Pencil Co., New York, N. Y. "Blue Band Velvet Pencils." (For Advertising Purposes for Velvet Pencils.) No. 6,020; Mar. 14.
- American Lead Pencil Co., New York, N. Y. "Venus Pencils." (For Advertising Purposes for Venus Pencils.) Nos. 6,021-2; Mar. 14.
- American Lead Pencil Co., New York, N. Y. "Blue Band Velvet Pencils." (For Advertising Purposes for Velvet Pencils.) No. 6,067; Apr. 18.
- American Lead Pencil Company, New York, N. Y. "Venus Everpointed Pencils." (For Advertising Purposes for Lead Pencils.) No. 6,155; June 20.
- American Lead Pencil Company, New York, N. Y. "Venus Thin Leads." (For Advertising Purposes for Lead Pencils.) No. 6,210; July 18.
- American Lead Pencil Company, New York, N. Y. "Ink-Eau Indelible Duplicating Pencil." (For Advertising Purposes for Indelible Pencils.) No. 6,293; Sept. 5.
- American Lead Pencil Company, New York, N. Y. "Venus Everpointed Pencils." (For Advertising Purposes for Lead Pencils.) No. 6,358; Oct. 31.
- American Piano Company, Jersey City, N. J., and New York, N. Y. "Ampico." (For Advertising Purposes for Pianos, Piano Players, and Player Pianos.) No. 6,223; July 25.
- American Piano Company, New York, N. Y. "Ampico." (For Advertising Purposes for Pianos, Piano Players, Player Pianos.) No. 6,359; Oct. 31.
- American Tobacco Company, The, New York, N. Y. "Louis Joseph Vance's hand holding a package of Omar Cigarettes." (For Advertising Purposes for Cigarettes.) No. 5,917; Jan. 17.
- Anderson, Carl T., Madison, Wis. "Encourage The Kiddies to Write and Draw." (For Advertising Purposes for Pony Desks.) No. 6,156; June 20.
- Anderson Engine Company, Chicago, Ill. "Anderson Engines Are Good Engines." (For Advertising Purposes for Internal-Combustion Engines.) No. 6,323; Oct. 10.
- Aromint Mfg. Company, The, Cincinnati, Ohio. "From Ocean to Ocean—From Pines to Palms." (For Advertising Purposes for Candy.) No. 6,014; Mar. 7.
- Aromint Mfg. Company, The, Cincinnati, Ohio. "The World Knows—." (For Advertising Purposes for Candy.) No. 6,253; Aug. 8.
- Ayer, Harriet Hubbard, New York, N. Y. Harriet Hubbard Ayer." (For Advertising Purposes for Toilet Preparations.) No. 6,305; Sept. 12.
- Ayer, J. C., Company, Lowell, Mass. "Ayer's Recipe Tablet No. 4." (For Advertising Purposes for Ayer's Comatone.) No. 6,457; Dec. 19.

- Ayer, J. C., Company, Lowell, Mass. "Ayer's Recipe Tablet No. 3." (For Advertising Purposes for Ayer's Pills.) No. 6,458; Dec. 19.
- Ayer, J. C., Company, Lowell, Mass. "Ayer's Recipe Tablet No. 2." (For Advertising Purposes for Ayer's Cherry Pectoral.) No. 6,459; Dec. 19.
- Ayer, J. C., Company, Lowell, Mass. "Ayer's Recipe Tablet No. 1." (For Advertising Purposes for Ayer's Sarsaparilla.) No. 6,460; Dec. 19.
- Ayer, J. C., Company, Lowell, Mass. "Ayer's Sarsaparilla Good For All The Family." (For Advertising Purposes for Ayer's Sarsaparilla.) No. 6,461; Dec. 19.
- Ayer, J. C., Company, Lowell, Mass. "Ayer's Cherry Pictorial Used for 80 Years." (For Advertising Purposes for Ayer's Cherry Pectoral.) No. 6,462; Dec. 19.
- Ayer, J. C., Company, Lowell, Mass. "Ayer's Pills The Standard Family Laxative." (For Advertising Purposes for Ayer's Pills.) No. 6,463; Dec. 19.
- Ayer, J. C., Company, Lowell, Mass. "Ayer's Comatone for the Scalp and Hair." (For Advertising Purposes for Ayer's Comatone.) No. 6,464; Dec. 19.
- B. V. D. Company, The, New York, N. Y. "Comfort and Long Wear Assured." (For Advertising Purposes for Athletic Underwear.) No. 6,071; Apr. 25.
- B. V. D. Company, The, New York, N. Y. "1922 B. V. D. Magazine Ad." (For Advertising Purposes for Athletic Underwear.) No. 6,100; May 9.
- B. V. D. Company, The, New York, N. Y. "1922 'Boys' B. V. D. Magazine Ad." (For Advertising Purposes for Athletic Underwear.) No. 6,101; May 9.
- B. V. D. Company, The, New York, N. Y. "Experience in the Wearing of B. V. D. Underwear." (For Advertising Purposes for Athletic Underwear.) No. 6,312; Oct. 3.
- B. V. D. Company, Inc., The, New York, N. Y. "B. V. D. Loose Fitting Closed Crotch Union Suit." (For Advertising Purposes for Athletic Underwear.) No. 6,427; Nov. 21.
- Baker Brush Company, Inc., New York, N. Y. "Baker Brush." (For Advertising Purposes for Paintbrushes.) No. 6,157; June 20.
- Barber, W. H., Company, Minneapolis, Minn. "Fyredrop." (For Advertising Purposes for Gasoline.) No. 6,272; Aug. 29.
- Bassett, Frank A., Holyoke, Mass. "Coal." (For Advertising Purposes for Coal.) No. 6,211; July 18.
- Bassick Company, The, Bridgeport, Conn. "The Neglected Inch." (For Advertising Purposes for Casters.) No. 5,982; Feb. 21.
- Baum, Kravat & Baum, New York, N. Y. "Dresses that Really Slenderize the Stout Woman." (For Advertising Purposes for Ladies' Dresses.) No. 6,097; May 9.
- Baum, Strauss & Co., New York, N. Y. "Cotton Fabrics that Insure Profits." (For Advertising Purposes for Cotton Piece Goods.) No. 6,144; June 6.
- Bay State Fibre Company, The, Boston, Mass., Providence, R. I.; New York, N. Y., and Philadelphia, Pa. "Mountain Dew." (For Advertising Purposes for a Furniture Polish.) No. 6,098; May 9.
- Beautypell Cosmetic Co. (See Newlyn, Thos. J.)
- Beech-Nut Packing Company, Canajoharie, N. Y. "Beech-Nut Macaroni and Spaghetti." (For Advertising Purposes for Beech-Nut Brand Macaroni.) No. 5,993; Feb. 28.
- Beech-Nut Packing Company, Canajoharie, N. Y. "Beech-Nut Pork and Beans—as fine a product as Beech-Nut Bacon." (For Advertising Purposes for Beech-Nut Brand Pork and Beans.) No. 5,994; Feb. 28.
- Beech-Nut Packing Company, Canajoharie, N. Y. "Beech-Nut Sliced Bacon." (For Advertising Purposes for Beech-Nut Brand Bacon.) No. 5,995; Feb. 28.
- Beech-Nut Packing Company, Canajoharie, N. Y. "That Real Old-Fashioned Flavor!" (For Advertising Purposes for Beech-Nut Brand Pork and Beans.) No. 5,996; Feb. 28.
- Beech-Nut Packing Company, Canajoharie, N. Y. "Always Refreshing Beech-Nut Gum." (For Advertising Purposes for Beech-Nut Gum.) No. 6,341; Oct. 24.
- Beech-Nut Packing Co., Canajoharie, N. Y. "Beech-Nut Chewing Gum Always Refreshing." (For Advertising Purposes for Beech-Nut Chewing Gum.) No. 6,342; Oct. 24.
- Beech-Nut Packing Co., Canajoharie, N. Y. "Beech-Nut Pork and Beans—as fine a product as Beech-Nut Bacon." (For Advertising Purposes for Beech-Nut Pork and Beans.) No. 6,343; Oct. 24.
- Beech-Nut Packing Company, Canajoharie, N. Y. "Always Refreshing Beech-Nut Chewing Gum." (For Advertising Purposes for Beech-Nut Chewing Gum.) No. 6,344; Oct. 24.
- Beech-Nut Packing Company, Canajoharie, N. Y. "Beech-Nut Mints." (For Advertising Purposes for Beech-Nut Mints.) No. 6,345; Oct. 24.
- Beech-Nut Packing Company, Canajoharie, N. Y. "Beech-Nut Sliced Bacon." (For Advertising Purposes for Beech-Nut Sliced Bacon.) No. 6,346; Oct. 24.
- Beech-Nut Packing Company, Canajoharie, N. Y. "Beech-Nut Mints They Melt on Your Tongue." (For Advertising Purposes for Beech-Nut Mints.) No. 6,381; Nov. 7.
- Beehler, William, Baltimore, Md. "Travella The Take-Down Umbrella Lessens Travel Worries." (For Advertising Purposes for Umbrellas.) No. 6,259; Aug. 15.
- Belaffsky Brothers, Chicago, Ill. "Hope Hampton Hat." (For Advertising Purposes for Hats.) No. 6,179; June 27.
- Benoliel, Solomon D., doing business as International Chemical Co., Philadelphia, Pa. "John Bright." (For Advertising Purposes for Cleaning Compounds.) No. 6,324; Oct. 10.
- Bordeleau, David, doing business as Lowell Metal Ceiling Company, Lowell, Mass. "Lowell Metal Ceiling." (For Advertising Purposes for Metal Ceiling.) No. 6,180; June 27.
- Boston Piano Co., Chicago, Ill. "Pianos! Pianos!" (For Advertising Purposes for Pianos.) No. 6,195; July 4.
- Boston Piano Co., Chicago, Ill. "Factory Pianos." (For Advertising Purposes for Pianos.) No. 6,196; July 4.
- Boston Piano Co., Chicago, Ill. "Alteration Piano Sale." (For Advertising Purposes for Pianos.) No. 6,197; July 4.
- Bourke-Rice Envelope Company, Chicago, Ill. "Envelope Calendar." (For Advertising Purposes for Envelopes.) No. 5,949; Feb. 14.
- Breakfast Brownies Company, Helena, Mont., and Minneapolis, Minn. "The Brownies Advise the Field Mice." (For Advertising Purposes for Breakfast Food.) No. 6,023; Mar. 14.
- Breakfast Brownies Company, Helena, Mont., and Minneapolis, Minn. "The Bunny and the Rose Bushes." (For Advertising Purposes for Breakfast Food.) No. 6,024; Mar. 14.
- Breakfast Brownies Company, Helena, Mont., and Minneapolis, Minn. "The Brownies Three Take Up Toe Dancing." (For Advertising Purposes for Breakfast Food.) No. 6,025; Mar. 14.
- Breakfast Brownies Company, Helena, Mont., and Minneapolis, Minn. "The Friendly Frog Teaches Swimming." (For Advertising Purposes for Breakfast Food.) No. 6,026; Mar. 14.
- Breakfast Brownies Company, Helena, Mont., and Minneapolis, Minn. "How the Lost Baby Bear Finds His Supper." (For Advertising Purposes for Breakfast Food.) No. 6,027; Mar. 14.
- Breakfast Brownies Company, Helena, Mont., and Minneapolis, Minn. "The Sleepy Sparrows Have Company." (For Advertising Purposes for Breakfast Food.) No. 6,028; Mar. 14.
- Breakfast Brownies Company, Helena, Mont., and Minneapolis, Minn. "The Brownies Visit Old Chuckle Woodchuck the Ground-Hog." (For Advertising Purposes for Breakfast Food.) No. 6,029; Mar. 14.
- Breakfast Brownies Company, Helena, Mont., and Minneapolis, Minn. "Grandpa Beaver Entertains the Brownies." (For Advertising Purposes for Breakfast Food.) No. 6,030; Mar. 14.
- Breakfast Brownies Company, Helena, Mont., and Minneapolis, Minn. "The Turtle Takes an Afternoon Nap." (For Advertising Purposes for Breakfast Food.) No. 6,031; Mar. 14.
- Breakfast Brownies Company, Helena, Mont., and Minneapolis, Minn. "Stripy Chipmunk Learns a Lesson." (For Advertising Purposes for Breakfast Food.) No. 6,032; Mar. 14.
- Breakfast Brownies Company, Helena, Mont., and Minneapolis, Minn. "The Brownies Pat the Porcupine." (For Advertising Purposes for Breakfast Food.) No. 6,033; Mar. 14.
- Breakfast Brownies Company, Helena, Mont., and Minneapolis, Minn. "The Brownies Hide from Horny Owl." (For Advertising Purposes for Breakfast Food.) No. 6,034; Mar. 14.
- Breakfast Brownies Company, Helena, Mont., and Minneapolis, Minn. "The Brownies Find the Little Fawn." (For Advertising Purposes for Breakfast Food.) No. 6,035; Mar. 14.
- Breakfast Brownies Company, Helena, Mont., and Minneapolis, Minn. "Mr. Pelican Helps Play Hide and Seek." (For Advertising Purposes for Breakfast Food.) No. 6,036; Mar. 14.
- Breakfast Brownies Company, Helena, Mont., and Minneapolis, Minn. "The Brownies Comfort the Sad Yellow Birds." (For Advertising Purposes for Breakfast Food.) No. 6,037; Mar. 14.
- Breakfast Brownies Company, Helena, Mont., and Minneapolis, Minn. "Frisky Squirrel Prepares for Winter." (For Advertising Purposes for Breakfast Food.) No. 6,038; Mar. 14.
- Breakfast Brownies Company, Helena, Mont., and Minneapolis, Minn. "The Great Bird Puzzles the Brownies." (For Advertising Purposes for Breakfast Food.) No. 6,181; June 27.
- Breakfast Brownies Company, Helena, Mont., and Minneapolis, Minn. "Jack Rabbit Acts as a Cab." (For Advertising Purposes for Breakfast Food.) No. 6,182; June 27.
- Brer Rabbit Candy Co., Detroit, Mich. "Brer Rabbit Kisses." (For Advertising Purposes for Candy Kisses.) No. 5,905; Jan. 10.
- Brewer, Chas. A. & Sons, Chicago, Ill. "Brewer's Questionnaire." (For Advertising Purposes for Game Boards.) No. 6,183; June 27.
- Brewer, Chas. A. & Sons, Chicago, Ill. "Order of Dippy Dips." (For Advertising Purposes for Game Boards.) No. 6,184; June 27.

Alphabetical list of registrants of prints—Continued.

- Brillo Manufacturing Co., Brooklyn, N. Y. "Makes Old Aluminum Utensils New." (For Advertising Purposes for Aluminum Utensil Cleanser and Polisher.) No. 6,055; Apr. 4.
- Brillo Manufacturing Co., Brooklyn, N. Y. "Brillo Cleanser." (For Advertising Purposes for Aluminum Utensil Cleanser and Polisher.) No. 6,056; Apr. 4.
- Brillo Manufacturing Company, Brooklyn, N. Y. "Brillo Makes Old Aluminum Utensils New." (For Advertising Purposes for Cleaning and Polishing.) No. 6,158; June 20.
- Brohman Company, New York, N. Y. "Piddle Pantie-Frock." (For Advertising Purposes for Child's Clothing.) No. 5,950; Feb. 14.
- Byron Weston Company, Dalton, Mass. "Byron Weston Co., Dalton, Mass., Manufacturers of Linen Ledger and Bond Papers." (For Advertising Purposes for Paper.) No. 6,099; May 9.
- California Paint Company, Oakland, Calif. "The 12 Tests." (For Advertising Purposes for Paints.) No. 6,425; Nov. 21.
- Cameron's Surgical Specialty Company, Chicago, Ill. "See the Shadow in the Exposed Process." (For Advertising Purposes for the 100-Candle-Power Cameron's Right Angle Dentalamp.) No. 5,997; Feb. 28.
- Candy Craft, Inc., Chicago, Ill. "I Love My Flivervstick Candy." (For Advertising Purposes for Candy.) No. 6,131; May 30.
- Candy Craft, Inc., Chicago, Ill. "Take your pick of a Flivervstick." (For Advertising Purposes for Candy.) No. 6,145; June 6.
- Candy Craft, Inc., Chicago, Ill. "Candy Craft." (For Advertising Purposes for Candy.) No. 6,465; Dec. 19.
- Candy Craft, Inc., Chicago, Ill. "The Famous Candy Craft Candies for Kiddies." (For Advertising Purposes for Candy.) No. 6,466; Dec. 19.
- Carley, Russell H., Washington, D. C. "Service." (For Advertising Purposes for Automobile Accessories.) No. 5,998; Feb. 28.
- Carpenter-Morton Co., Boston, Mass. "Carmote the Perfect Floor Varnish Stands Hard Knocks." (For Advertising Purposes for Carmote Varnish.) No. 5,951; Feb. 14.
- Carter, J. W., & Company, Nashville, Tenn. "We Guarantee Every Shoe Bearing This Mark." (For Advertising Purposes for Shoes.) No. 6,360; Oct. 31.
- Cattaraugus Cutlery Co., The Little Valley, N. Y. "Cattaraugus Scout." (For Advertising Purposes for Knives.) No. 6,254; Aug. 8.
- Cecil, James M., Richmond, Va. "The Write Gift." (For Advertising Purposes for Writing Paper.) No. 6,236; Aug. 1.
- Channel Fence Company, Inc., Lake Charles, La. "Channel Fence Company, Inc." (For Advertising Purposes for a Combination Wood and Wire Fence.) No. 6,273; Aug. 29.
- Cheek-Neal Coffee Company, Nashville, Tenn., and New York, N. Y. "Maxwell House Coffee." (For Advertising Purposes for Coffee.) No. 6,313; Oct. 3.
- Cheek-Neal Coffee Company, Nashville, Tenn. "S'Maxwell." (For Advertising Purposes for Coffee.) No. 6,467; Dec. 19.
- Chero Cola Company, Columbus, Ga. "Chero-Cola There's None so Good." (For Advertising Purposes for a Soft Drink.) No. 5,999; Feb. 28.
- Chero Cola Company, Columbus, Ga. "Chero Cola." (For Advertising Purposes for a Soft Drink.) No. 6,072; Apr. 25.
- Chicago Timer Factory Incorporated, Chicago, Ill. "Blue Flag Timer." (For Advertising Purposes for a Timer Designed Particularly for Ford Cars, Tractors, and Trucks.) No. 5,952; Feb. 14.
- Chrington Bros., New York, N. Y. "The Winner's Cup." (For Advertising Purposes for Gold and Silver Ware.) No. 6,212; July 18.
- City Dairy and Ice Cream Co., St. Joseph, Mo. "U-Tell-Em, It's Tas Tells." (For Advertising Purposes for Ice Cream.) No. 6,237; Aug. 1.
- Cleveland Metal Products Company, The, Cleveland, Ohio. "Heat by the Roomful." (For Advertising Purposes for Perfection Oil Heaters.) No. 5,983; Feb. 21.
- Climax Specialty Company, St. Louis, Mo. "Climax Baby." (For Advertising Purposes for Children's and Ladies' Sanitary Goods.) No. 6,900; Feb. 28.
- Coca Cola Company, The, Atlanta, Ga. "Drink Coca-Cola." (For Advertising Purposes for Coca-Cola.) Nos. 5,953-4; Feb. 14.
- Coca Cola Company, The, Atlanta, Ga. "Drink Coca-Cola the Year-Round Drink." (For Advertising Purposes for Coca-Cola.) No. 5,984; Feb. 21.
- Coca-Cola Co., The, Atlanta, Ga. "Drink Coca-Cola Delicious and Refreshing." (For Advertising Purposes for Coca-Cola.) No. 6,347; Oct. 24.
- Coca Cola Company, The, Atlanta, Ga. "Drink Coca-Cola." (For Advertising Purposes for Coca-Cola.) No. 6,348; Oct. 24.
- Coca-Cola Company, The, Atlanta, Ga. "Drink Coca-Cola Delicious and Refreshing." (For Advertising Purposes for Coca-Cola.) No. 6,349; Oct. 24.
- Coca-Cola Co., The, Atlanta, Ga. "Drink Coca-Cola Delicious and Refreshing." (For Advertising Purposes for Coca-Cola.) No. 6,401; Nov. 14.
- Coca-Cola Company, The, Atlanta, Ga. "Drink Coca-Cola All The Year 'Round." (For Advertising Purposes for Coca-Cola.) Nos. 6,468-9; Dec. 19.
- Coca-Cola Company, The, Atlanta, Ga. "Thirst Knows No Time Nor Season." (For Advertising Purposes for Coca-Cola.) No. 6,470; Dec. 19.
- Coca-Cola Company, The, Atlanta, Ga. "Drink Coca-Cola." (For Advertising Purposes for Coca-Cola.) No. 6,471; Dec. 19.
- Coca-Cola Company, The, Atlanta, Ga. "After Play." (For Advertising Purposes for Coca-Cola.) No. 6,472; Dec. 19.
- Coca-Cola Company, The, Atlanta, Ga. "Coca-Cola The Year-round Drink." (For Advertising Purposes for Coca-Cola.) No. 6,473; Dec. 19.
- Cohn, Louis I., doing business as Stays Neat Mattress Company, Philadelphia, Pa. "Stays Neat." (For Advertising Purposes for Mattresses.) No. 6,274; Aug. 29.
- Coleman, Aloysius J., New York, N. Y. "Name-Pencils." (For Advertising Purposes for Pencils.) No. 6,102; May 9.
- Colgate & Co., New York, N. Y. "Colgate's cleans beautiful teeth the right way." (For Advertising Purposes for Colgate's Ribbon Dental Cream.) No. 6,350; Oct. 24.
- Commercial Tire & Auto Co. (See Greenspan, Marius.)
- Commonwealth Publishing Company, Chicago, Ill. "It's The Watch Dog Of Your Peaceful Slumbers." (For Advertising Purposes for Weekly Income Records or Blank Books.) No. 6,474; Dec. 19.
- Congress Cigar Company, Philadelphia, Pa. "La Palina the Quality Cigar Since 1896." (For Advertising Purposes for Cigars.) No. 6,159; June 20.
- Cooper Underwear Company, Kenosha, Wis. "Coopers Union Suits Made by Coopers." (For Advertising Purposes for Men's, Women's, and Children's Underwear.) No. 6,132; May 30.
- Crane Ice Cream Company, Philadelphia, Pa. "Crane's Baltimore Ice Cream." (For Advertising Purposes for Ice Cream.) No. 5,955; Feb. 14.
- Cream of Wheat Co., Minneapolis, Minn. "Cream of Wheat." (For Advertising Purposes for Wheat Breakfast Food.) No. 6,161; June 20.
- Cream of Wheat Co., Minneapolis, Minn. "Where Healthy Babies Come From." (For Advertising Purposes for Wheat Breakfast Food.) No. 6,162; June 20.
- Cream of Wheat Co., Minneapolis, Minn. "Cream of Wheat." (For Advertising Purposes for Wheat Breakfast Food.) No. 6,224; July 25.
- Cream of Wheat Co., Minneapolis, Minn. "Little Simon." (For Advertising Purposes for Wheat Breakfast Food.) No. 6,225; July 25.
- Cream of Wheat Co., Minneapolis, Minn. "The Best Policy." (For Advertising Purposes for Wheat Breakfast Food.) No. 6,260; Aug. 15.
- Cream of Wheat Co., Minneapolis, Minn. "His Bodyguard." (For Advertising Purposes for Wheat Breakfast Food.) No. 6,001; Feb. 28.
- Cream of Wheat Co., Minneapolis, Minn. "The Filling Station." (For Advertising Purposes for Wheat Breakfast Food.) No. 6,294; Sept. 5.
- Cream of Wheat Co., Minneapolis, Minn. "An Old Friend." (For Advertising Purposes for Wheat Breakfast Food.) No. 6,333; Oct. 17.
- Cream of Wheat Co., Minneapolis, Minn. "His Two Best Friends." (For Advertising Purposes for Wheat Breakfast Food.) No. 6,426; Nov. 21.
- Crown Chemical Company, The, Indianapolis, Ind. "Boncilla." (For Advertising Purposes for a Beautifier.) No. 6,160; June 20.
- Dandercide Mfg. Co. (See Wantland, L. J.)
- Derryvale Linen Co., Inc., New York, N. Y. "Derryvale." (For Advertising Purposes for Linen Piece Goods—Namely, Irish Linen.) No. 6,402; Nov. 14.
- Dill, J. G., Company, Richmond, Va., and New York, N. Y. "The Celebrated Dill's Best." (For Advertising Purposes for Smoking Tobacco and Other Tobacco Products.) No. 6,382; Nov. 7.
- Douglas & Burns, Ltd., Des Moines, Iowa. "Crowned With Wealth of Vitamins." (For Advertising Purposes for Beverages and Ingredients Thereof.) No. 6,314; Oct. 3.
- Earl, Grace D., Chicago, Ill. "Jiffe." (For Advertising Purposes for Nail Polish.) No. 6,198; July 4.
- Eaton, Crane & Pike Company, Pittsfield, Mass. "What Does the Letter Say, Jean?" (For Advertising Purposes for Crane's Linen Lawn and Eaton's Highland Linen.) No. 6,039; Mar. 14.
- Eaton, Crane & Pike Company, Pittsfield, Mass. "A Letter from the Seashore." (For Advertising Purposes for Crane's Linen Lawn and Eaton's Highland Linen.) No. 6,057; Apr. 4.
- Eaton, Crane & Pike Company, Pittsfield, Mass. "I see by the paper that Marjorie has improved in her taste." (For Advertising Purposes for Eaton's Highland Linen.) No. 6,073; Apr. 25.
- Eaton, Crane & Pike Company, Pittsfield, Mass. "Mother, why is everybody saying 'Just the thing'?" (For Advertising Purposes for Eaton's Highland Linen.) No. 6,074; Apr. 25.
- Eaton, Crane & Pike Company, Pittsfield, Mass. "I have written a letter of recommendation for you Céleste." (For Advertising Purposes for Eaton's Highland Linen.) No. 6,163; June 20.

Alphabetical list of registrants of prints—Continued.

- Eaton, Crane & Pike Company, Pittsfield, Mass. "Eaton's Highland Linen—Strange, isn't it, dear, that you should accept Jack on Eaton's Highland Linen—the same paper I used when I said yes to your father." (For Advertising Purposes for Eaton's Highland Linen.) No. 6,185; June 27.
- Eaton, Crane & Pike Company, Pittsfield, Mass. "Eaton's Highland Linen The Correct Writing Paper." (For Advertising Purposes for Eaton's Highland Linen.) No. 6,261; Aug. 15.
- Edmonds Shoe Company, Milwaukee, Wis. "Construction Features That Make 'Foot-Fitters' Stay Stylish and Comfortable." (For Advertising Purposes for Shoes.) No. 6,403; Nov. 14.
- Efficiency Products Co., Chicago, Ill. "Vap O Wax." (For Advertising Purposes for a Polish for All Purposes.) No. 6,475; Dec. 19.
- Egyptian Mineral Co., Chicago, Ill. "Egyptian Mineral Co. Silica." (For Advertising Purposes for Silica.) No. 5,918; Jan. 17.
- Elgin National Watch Company, Chicago, Ill. "The Elgin Economy Watch." (For Advertising Purposes for Watches.) No. 5,985; Feb. 21.
- Elgin National Watch Company, Chicago, Ill. "The Value of Time." (For Advertising Purposes for Watches.) No. 6,103; May 9.
- Elgin National Watch Company, Chicago, Ill. "The Pageant of Time." (For Advertising Purposes for Watches.) No. 6,104; May 9.
- Elgin National Watch Company, Chicago, Ill. "The Value of Time." (For Advertising Purposes for Watches.) No. 6,146; June 6.
- Elgin National Watch Company, Chicago, Ill. "The Value of Time." (For Advertising Purposes for Watches.) No. 6,295-8; Sept. 5.
- Elgin National Watch Company, Chicago, Ill. "The Value of Time." (For Advertising Purposes for Watches.) Nos. 6,404-6; Nov. 14.
- Eline's Incorporated, Milwaukee, Wis. "Would You Feed Your Child Skimmed Milk?" (For Advertising Purposes for Chocolate.) No. 6,407; Nov. 14.
- Eline's Incorporated, Milwaukee, Wis. "Eat Eline's Sweet Milk Chocolate." (For Advertising Purposes for Chocolate.) No. 6,408; Nov. 14.
- Eline's Incorporated, Milwaukee, Wis. "Why Eline's Chocolate is Best." (For Advertising Purposes for Chocolate.) No. 6,409; Nov. 14.
- Eline's Incorporated, Milwaukee, Wis. "Chocolate for the Sportsman!" (For Advertising Purposes for Chocolate.) No. 6,437; Nov. 28.
- Emery & Beers Company, Inc., New York, N. Y. "Pointex." (For Advertising Purposes for Hosiery.) No. 6,275; Aug. 29.
- Emery & Beers Company, Inc., New York, N. Y. "Onyx Hosiery." (For Advertising Purposes for Hosiery.) No. 6,383; Nov. 7.
- Emery & Beers Company, Inc., New York, N. Y. "Onyx Hosiery." (For Advertising Purposes for Hosiery.) No. 6,410; Nov. 14.
- Engert, George J., Spokane, Wash. "Pan Kor." (For Advertising Purposes for Hollow Concrete Walls.) No. 6,105; May 9.
- Ennis Hanly Blackburn Coffee Co., The Kansas City, Mo. "Pay Me." (For Advertising Purposes for Coffee.) No. 6,411; Nov. 14.
- Enterprise Manufacturing Company, The, Akron, Ohio. "Leaping Bass No. 2." (For Advertising Purposes for Fishing Tackle.) No. 6,213; July 18.
- Enterprise Manufacturing Company, The, Akron, Ohio. "Leaping Bass No. 1." (For Advertising Purposes for Fishing Tackle.) No. 6,214; July 18.
- Enterprise Manufacturing Company, The, Akron, Ohio. "Standing Fisherman." (For Advertising Purposes for Fishing Tackle.) No. 6,276; Aug. 29.
- Estey Organ Co., Brattleboro, Vt. "The Estey Residence Pipe Organ." (For Advertising Purposes for The Estey Residence Pipe Organ.) No. 6,199; July 4.
- Fairbank, N. K., Company, The, New York, N. Y. "Kept Clean and 'Safe' with Gold Dust." (For Advertising Purposes for Gold Dust Washing Powder.) No. 5,919; Jan. 17.
- Fairbank, N. K., Company, The, New York, N. Y. "Fairy Soap Two Convenient Sizes." (For Advertising Purposes for Fairy Soap for Toilet and Bath.) No. 5,920; Jan. 17.
- Fairbank, N. K., Company, The, New York, N. Y. "Kept Clean with Gold Dust—Still 5¢." (For Advertising Purposes for Gold Dust Washing Powder.) No. 5,944; Jan. 31.
- Fairbank, N. K., Company, The, New York, N. Y. "Kept Clean with Gold Dust." (For Advertising Purposes for Gold Dust Washing Powder.) No. 5,945; Jan. 31.
- Fairbank, N. K., Company, The, New York, N. Y. "For All the Family Fairy Soap." (For Advertising Purposes for Fairy Soap for Toilet and Bath.) No. 5,946; Jan. 31.
- Fairbank, N. K., Company, The, New York, N. Y. "Kept Clean with Gold Dust." (For Advertising Purposes for Gold Dust Washing Powder.) No. 5,947; Jan. 31.
- Fairbank, N. K., Company, The, New York, N. Y. "Kept Clean with Gold Dust." (For Advertising Purposes for Gold Dust Washing Powder.) No. 5,956; Feb. 14.
- Fairbank, N. K., Company, The, New York, N. Y. "Kept Clean with—Gold Dust." (For Advertising Purposes for Gold Dust Washing Powder.) No. 6,015; Mar. 7.
- Fairbank, N. K., Company, The, New York, N. Y. "In separable! Healthful, Refreshing, Cleanliness and—Fairy Soap." (For Advertising Purposes for Fairy Soap.) No. 6,058; Apr. 4.
- Fairbank, N. K., Company, The, New York, N. Y. "Kept Clean With Gold Dust." (For Advertising Purposes for Gold Dust Washing Powder.) Nos. 6,277-8; Aug. 29.
- Fairbank, N. K., Company, The, New York, N. Y. "Kept Clean With—Gold Dust." (For Advertising Purposes for Gold Dust Washing Powder.) No. 6,351; Oct. 24.
- Fairbank, N. K., Company, The, New York, N. Y. "After Cooking—Clean with—Gold Dust." (For Advertising Purposes for Gold Dust Washing Powder.) No. 6,431; Nov. 21.
- Faust, Clyde A., Chicago, Ill. "Elastic Girdle." (For Advertising Purposes for Girdles.) No. 6,016; Mar. 7.
- Federal System of Bakeries of America, Inc., Davenport, Iowa. "Bringing Home the Bakin'." (For Advertising Purposes for Federal Bread.) No. 5,957; Feb. 14.
- Franklin Manufacturing Company. (See Oppenheim, Oberndorf & Co., Inc.)
- Frederics, E., Inc., New York, N. Y. "Frederics Method." (For Advertising Purposes for Apparatus, Devices, and Appliances for Permanent Hair Waving.) No. 6,068; Apr. 18.
- Frederics, E., Inc., New York, N. Y. "Frederics Method." (For Advertising Purposes for Apparatus, Devices, and Appliances for Permanent Hair Waving.) No. 6,069; Apr. 18.
- Garland, M., Co., The, Bay City, Mich. "Latest Improved Cable Wheels." (For Advertising Purposes for Cable Wheels.) No. 6,476; Dec. 19.
- Gaudin, Frank R., Los Angeles, Calif. "Gaudin's Relief Pencil." (For Advertising Purposes for Relief Pencils Used in Forming Raised Designs, Letters, etc.) No. 6,002; Feb. 28.
- Gearo Mfg. Co., Quincy, Ill. "G. M. C. Metallic Grease." (For Advertising Purposes for Lubricating Grease.) No. 6,003; Feb. 28.
- Genesee Pure Food Company, The, Le Roy, N. Y. "The 1921 Jell-O Salad." (For Advertising Purposes for Jell-O.) No. 5,921; Jan. 17.
- Genesee Pure Food Company, The, Le Roy, N. Y. "The Farm Scene." (For Advertising Purposes for Jell-O.) No. 5,922; Jan. 17.
- Genesee Pure Food Company, The, Le Roy, N. Y. "A Free Book." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 5,958; Feb. 14.
- Genesee Pure Food Company, The, Le Roy, N. Y. "The Mission Scene." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 5,959; Feb. 14.
- Genesee Pure Food Company, The, Le Roy, N. Y. "The Nightmare." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 6,084; May 2.
- Genesee Pure Food Company, The, Le Roy, N. Y. "The Plum Pudding." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 6,299; Sept. 5.
- Genesee Pure Food Company, The, Le Roy, N. Y. "Hurry! Daddy." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 6,315; Oct. 3.
- Genesee Pure Food Company, The, Le Roy, N. Y. "At Grandmothers." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 6,334; Oct. 17.
- Genesee Pure Food Company, The, Le Roy, N. Y. "Linn Ball Lemon Jell-O." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 6,384; Nov. 7.
- Genesee Pure Food Company, The, Le Roy, N. Y. "1921 Lemon Jell-O." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 6,412; Nov. 14.
- Genesee Pure Food Company, The, Le Roy, N. Y. "Little Jack Horner." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 6,413; Nov. 14.
- Genesee Pure Food Company, The, Le Roy, N. Y. "A Basketful of Happiness." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 6,414; Nov. 14.
- Genesee Pure Food Company, The, Le Roy, N. Y. "The Tea Party." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 6,428; Nov. 21.
- Glover, H. Clay Co., New York, N. Y. "Gladys." (For Advertising Purposes for Glover's Mange Medicine.) No. 6,126; May 16.
- Gotham Chemical Company, Inc., New York, N. Y. "Celery Phos-fo." (For Advertising Purposes for Medicinal Preparation Named Celery Phos-fo.) No. 6,075; Apr. 25.
- Greenspan, Marius, doing business as Commercial Tire & Auto Co., Chicago, Ill. "Union Heart." (For Advertising Purposes for Automobile Tires.) No. 6,352; Oct. 24.
- Greist Mfg Co., The, New Haven, Conn. "Shaves by Mail." (For Advertising Purposes for Razor Blades.) No. 6,127; May 16.
- Greist Manufacturing Company, The, New Haven, Conn. "Miss Lotta Lite." (For Advertising Purposes for Portable Lamps.) No. 6,306; Sept. 12.

Alphabetical list of registrants of prints—Continued.

- Gulbranson, Dickinson Company, Chicago, Ill. "Easy to Play." (For Advertising Purposes for Player-Pianos.) No. 5,986; Feb. 21.
- Hanson Brothers Scale Company, Chicago, Ill. "Handy Hanson." (For Advertising Purposes for Scales.) No. 6,279; Aug. 29.
- Hartmann Trunk Co., Racine, Wis. "Cushion Top." (For Advertising Purposes for Wardrobe Trunks.) No. 6,438; Nov. 28.
- Hatch Advertising and Sales Service, Troy, N. Y. "Great Loaf." (For Advertising Purposes for Bread.) No. 6,280; Aug. 29.
- Hawaiian Electric Company, Ltd., The, Honolulu, Hawaii. "The Hawaiian Electric Co. Ltd. for Progressive Hawaii We Light the Way." (For Advertising Purposes for Electrical Supplies.) No. 6,059; Apr. 4.
- Haynes Automobile Company, The, Kokomo, Ind. "The New 1922 Five Passenger Haynes 75 Brougham." (For Advertising Purposes for Automobiles.) No. 5,961; Feb. 14.
- Haynes Automobile Company, The, Kokomo, Ind. "The New 1922 Five Passenger Haynes 55 Sedan." (For Advertising Purposes for Automobiles.) No. 5,962; Feb. 14.
- Haynes Automobile Company, The, Kokomo, Ind. "The New Three Passenger Haynes 55 Coupelet." (For Advertising Purposes for Automobiles.) No. 6,133; May 30.
- Haynes Automobile Company, The, Kokomo, Ind. "The New Improved Seven Passenger Haynes 75 Touring Car." (For Advertising Purposes for Automobiles.) No. 6,200; July 4.
- Haynes Automobile Company, The, Kokomo, Ind. "A Haynes 75 for every motoring travel requirement." (For Advertising Purposes for Automobiles.) No. 6,281; Aug. 29.
- Haynes Automobile Company, The, Kokomo, Ind. "The New Improved Four Passenger Haynes 75 Tourister." (For Advertising Purposes for Automobiles.) No. 6,325; Oct. 10.
- Haynes Automobile Company, The, Kokomo, Ind. "Outstanding among the greatest motor car values of the year—The Haynes 55." (For Advertising Purposes for Automobiles.) No. 6,429; Nov. 21.
- Haynes Automobile Company, The, Kokomo, Ind. "Announcing The 1923 Haynes Four Sport Model." (For Advertising Purposes for Automobiles.) No. 6,452; Dec. 5.
- Hearn, James A., & Son, Inc., New York, N. Y. "Hearn Baby Castile." (For Advertising Purposes for Soap.) No. 6,282; Aug. 29.
- Heinz, H. J., Co., Pittsburgh, Pa. "Good Things for Desserts Heinz Mince Meat." (For Advertising Purposes for Heinz Mince Meat.) No. 6,040; Mar. 14.
- Heinz, H. J., Co., Pittsburgh, Pa. "Makes Things Taste Better Heinz Tomato Ketchup." (For Advertising Purposes for Heinz Tomato Ketchup.) No. 6,041; Mar. 14.
- Heinz, H. J., Co., Pittsburgh, Pa. "Makes things taste better Heinz Tomato Ketchup." (For Advertising Purposes for Heinz Tomato Ketchup.) No. 6,060; Apr. 4.
- Heinz, H. J., Co., Pittsburgh, Pa. "Why Millions Eat Them—Heinz Oven Baked Beans." (For Advertising Purposes for Heinz Oven-Baked Beans.) No. 6,106; May 9.
- Heinz, H. J., Co., Pittsburgh, Pa. "Where the '57' began The Little House that was floated down the River." (For Advertising Purposes for Heinz 57 Varieties.) No. 6,186; June 27.
- Heinz, H. J., Co., Pittsburgh, Pa. "Your boy will eat almost anything that tastes good." (For Advertising Purposes for Heinz Pure Food Products.) No. 6,187; June 27.
- Heinz, H. J., Co., Pittsburgh, Pa. "Heinz Vinegar Every Drop Awakens Flavor." (For Advertising Purposes for Heinz Vinegars.) No. 6,226; July 25.
- Heinz, H. J., Co., Pittsburgh, Pa. "Heinz Fruits and Vegetables are Grown in the Garden Spots of the World." (For Advertising Purposes for Heinz 57 Varieties of Products.) No. 6,262; Aug. 15.
- Hendler Creamery Company, The, Baltimore, Md. "A Pal for Your Palate." (For Advertising Purposes for Ice Cream.) No. 6,415; Nov. 14.
- Hendler Creamery Company, The, Baltimore, Md. "On Your Way—Take Home a Brick." (For Advertising Purposes for Ice Cream.) No. 6,416; Nov. 14.
- Hendler Creamery Company, The, Baltimore, Md. "The Velvet Kind." (For Advertising Purposes for Ice Cream.) No. 6,417; Nov. 14.
- Hendler Creamery Company, The, Baltimore, Md. "Take Home a Brick." (For Advertising Purposes for Ice Cream.) No. 6,418; Nov. 14.
- Hill, Robert, Buffalo, N. Y. "Mittme." (For Advertising Purposes for Nonalcoholic, Maltless Beverages and Sirups for Preparing the same.) No. 6,076; Apr. 25.
- Hills Bros., San Francisco, Calif. "Hills Bros. Red Can Coffee." (For Advertising Purposes for Coffee.) No. 5,923; Jan. 17.
- Hills Bros., San Francisco, Calif. "Treasure." (For Advertising Purposes for Coffee.) No. 6,085; May 2.
- Hills Bros., San Francisco, Calif. "End of the Hunt." (For Advertising Purposes for Coffee.) No. 6,086; May 2.
- Hills Bros., San Francisco, Calif. "The Choice of Hosts." (For Advertising Purposes for Coffee.) No. 6,087; May 2.
- Hills Bros., San Francisco, Calif. "Quality counts." (For Advertising Purposes for Coffee.) No. 6,238; Aug. 1.
- Hills Bros., San Francisco, Calif. "Coffee Talks." (For Advertising Purposes for Coffee.) No. 6,239; Aug. 1.
- Hills Bros., San Francisco, Calif. "A reflection of good coffee." (For Advertising Purposes for Coffee.) No. 6,240; Aug. 1.
- Hills Bros., San Francisco, Calif. "First—last—and always." (For Advertising Purposes for Coffee.) No. 6,241; Aug. 1.
- Hinkley-Myers Co., Jackson, Mich. "Repair Tool Instruction Chart for Car, Truck, and Tractor." (For Advertising Purposes for Tools to be Used in Connection with the Various Parts of an Automobile and for Instruction to the Parties Using Such Tools to Save Time and Secure Accuracy.) No. 6,300; Sept. 5.
- Hinds, A. S., Co., Portland, Me. "Hinds Honey and Almond Cream." (For Advertising Purposes for Toilet Preparations.) No. 6,361; Oct. 31.
- Hinds, A. S., Co., Portland, Me. "Summer Days." (For Advertising Purposes for the A. S. Hinds Toilet Preparations.) No. 6,362; Oct. 31.
- Hinds, A. S., Co., Portland, Me. "New Home Demonstration size of Hinds Complexion Creams." (For Advertising Purposes for the A. S. Hinds Co. Toilet Preparations.) No. 6,439; Nov. 28.
- Hinds, A. S., Co., Portland, Me. "The Powder Base—Perfection." (For Advertising Purposes for the A. S. Hinds Co. Toilet Preparations.) No. 6,440; Nov. 28.
- Hinds, A. S., Co., Portland, Me. "The Week-End Box." (For Advertising Purposes for the A. S. Hinds Co. Toilet Preparations.) No. 6,441; Nov. 28.
- Hinds, A. S., Co., Portland, Me. "After Shaving." (For Advertising Purposes for the A. S. Hinds Co. Honey and Almond Cream.) No. 6,477; Dec. 19.
- Hires, Charles E., Company, The, Philadelphia, Pa. "Ask for Hires and Get the Genuine." (For Advertising Purposes for a Soft Drink.) No. 6,042; Mar. 14.
- Hirsch, Walter J., Company, Chicago, Ill. "Rarebit Way." (For Advertising Purposes for Peanut Butter.) No. 6,077; Apr. 25.
- Holbrook Pie Baking Co. Inc., Albany, N. Y. "The Pie in The Pievelope." (For Advertising Purposes for Pies.) Nos. 6,227-8; July 25.
- Holgate, Harry A., Philadelphia, Pa. "Titian." (For Advertising Purposes for Kerosene.) No. 5,924; Jan. 17.
- Hood, H. P., & Sons, Inc., Boston, Mass. "Hood's Old Fashioned Ice Cream." (For Advertising Purposes for Ice Cream.) Nos. 5,906-7; Jan. 10.
- Hyams, David, Newport News, Va. "The Graphic Duplicator." (For Advertising Purposes for Duplicating Machines.) No. 5,960; Feb. 14.
- Ideal Novelty Company, Baltimore, Md. "Ideal Can Spout." (For Advertising Purposes for a Detachable Spout for Containers.) No. 6,188; June 27.
- International Chemical Co. (See Benoliel, Solomon D.).
- International Salt Company, Incorporated, New York, N. Y. "The Running Salt." (For Advertising Purposes for Table Salt.) No. 6,478; Dec. 19.
- Interwoven Stocking Company, New Brunswick, N. J. "Interwoven Socks Light Weight Ribbed Wools." (For Advertising Purposes for Hosiery.) No. 5,963; Feb. 14.
- Interwoven Stocking Company, The, New Brunswick, N. J. "Get him a box for Christmas." (For Advertising Purposes for Hosiery.) No. 5,964; Feb. 14.
- Interwoven Stocking Company, New Brunswick, N. J. "Ribbed Interwoven Socks." (For Advertising Purposes for Hosiery.) No. 6,430; Nov. 21.
- Jenkins, Thomas A., Jersey City, N. J. "Thomas A. Jenkins Glass Ventilators." (For Advertising Purposes for Glass Ventilators.) No. 5,965; Feb. 14.
- Johnston, Robert A., Co., Milwaukee, Wis. "Choice Box Card." (For Advertising Purposes for Candy.) No. 6,316; Oct. 3.
- Kant-Skore Piston Company, The, Cincinnati, Ohio. "Weight Lightest Fit Tightest." (For Advertising Purposes for Pistons.) No. 6,164; June 20.
- Kant-Skore Piston Company, The, Cincinnati, Ohio. "Kant-Skore Pistons Weigh Lightest—Fit Tightest." (For Advertising Purposes for Pistons.) No. 6,189; June 27.
- Kappus, John M., Cleveland, Ohio. "The Man in the Moon Brings Cheerfulness Over Night." (For Advertising Purposes for Laxative Tablets.) No. 6,107; May 9.
- Kappus, John M., Cleveland, Ohio. "Our Own Oil Liniment." (For Advertising Purposes for Liniments.) No. 6,108; May 9.
- Kenyon, C., Company, Inc., Brooklyn, N. Y. "Kenyon Cord Tires and Tubes." (For Advertising Purposes for Rubber Tires and Tubes.) No. 6,442; Nov. 28.
- Kirk, James S., & Company, Chicago, Ill. "Kirk's Cocoa Hardwater Castile." (For Advertising Purposes for Soap.) Nos. 6,363-4; Oct. 31.

- Koffee-O Cereal Co., Tacoma, Wash. "At last—the perfect drink!" (For Advertising Purposes for a Cereal Food Drink.) No. 6,353; Oct. 24.
- Krank, A. J., Mtg. Company, St. Paul, Minn. "Lemon." (For Advertising Purposes for Containers Containing a Cleansing Cream.) No. 6,485; Dec. 26.
- Krank, Alfred J., St. Paul, Minn. "Krank's Lemon Cleansing Cream." (For Advertising Purposes for a Cleansing Cream.) No. 6,263; Aug. 15.
- Kronberger, Alfred M., Boston, Mass. "Protect Your Feet." (For Advertising Purposes for Alzo Foot Powder or a Preparation for the Feet.) No. 5,966; Feb. 14.
- Latham Litho & Printing Co., Brooklyn, N. Y. "Big Eyes." (For Advertising Purposes for Tobacco.) No. 5,925; Jan. 17.
- Lemoine, Hyatt, New York, N. Y. "Hyatt's Safety Kid." (For Advertising Purposes for Work and Safety Clothing.) No. 6,479; Dec. 19.
- Lieberman, Chas. A., Georgetown, Ohio. "Na-Wa-Co." (For Advertising Purposes for a Powder for Sweaty Feet.) No. 5,967; Feb. 14.
- Linen Thread Company, The, New York, N. Y. "Double Knot Salmon Gill Netting." (For Advertising Purposes for Threads and Netting.) No. 5,968; Feb. 14.
- Listo Pencil Company, Alameda, Calif. "The Pencil with a Mission." (For Advertising Purposes for Pencils.) No. 5,969; Feb. 14.
- Listo Pencil Company, Alameda, Calif. "Listo A Pencil especially made for You." (For Advertising Purposes for Lead Pencils.) No. 6,419; Nov. 14.
- Long, S. W., New York, N. Y. "Snap-On More than a Curtain Rod." (For Advertising Purposes for a Curtain Rod.) No. 6,264; Aug. 15.
- Lotus Co., Inc., The, Newark, N. J. "How To Use This Sample of Lotus Hair Color Restorer." (For Advertising Purposes for the Lotus Preparation for the Hair.) No. 6,128; May 16.
- Lounsbury Soule Co., The, New York, N. Y. "The Feet and their Clothing." (For Advertising Purposes for Shoes.) No. 5,908; Jan. 10.
- Lounsbury Soule Co., The, New York, N. Y. "Combination Last." (For Advertising Purposes for Shoes.) No. 5,909; Jan. 10.
- Lounsbury Soule Co., The, New York, N. Y. "Cupped Heel Seat." (For Advertising Purposes for Shoes.) No. 5,910; Jan. 10.
- Lounsbury Soule Co., The, New York, N. Y. "Restful Support." (For Advertising Purposes for Shoes.) No. 5,911; Jan. 10.
- Lounsbury Soule Co., The, New York, N. Y. "The 'Hidden Spring'." (For Advertising Purposes for Shoes.) No. 5,912; Jan. 10.
- Lowell Metal Ceiling Company. (See Bordeleau, David.)
- Lucas, D. C., doing business as D. C. Lucas Manufacturing Co., Philadelphia, Pa. "'Lor'." (For Advertising Purposes for the Lor Parking Lamp.) No. 6,326; Oct. 10.
- Lucas, D. C., Manufacturing Co. (See Lucas, D. C.)
- Luthy Company, The, San Francisco, Calif. "Luthy Batteries." (For Advertising Purposes for Storage Batteries.) No. 5,926; Jan. 17.
- Madder, William B., Newark, N. J. "Bob-Curl." (For Advertising Purposes for a Hair-Curling Preparation.) No. 6,307; Sept. 12.
- Madder, William B., assignor to Madder and Krumnow, Newark, N. J. "Lavato." (For Advertising Purposes for a Hair Shampoo.) No. 6,335; Oct. 17.
- Madder and Krumnow. (See Madder, William B., assignor.)
- Manischewitz, B., Company, The, Cincinnati, Ohio. "Manischewitz Matzos." (For Advertising Purposes for Matzos.) No. 5,970; Feb. 14.
- Marietta Manufacturing Company, Point Pleasant, W. Va. "Made Mechanically Correct." (For Advertising Purposes for Steel Boats, Barges, Marine Engines, BOLLERS, and Equipment.) No. 6,215; July 18.
- Mastin & Co., New York, N. Y. "Mastin says." (For Advertising Purposes for Tablets for Use in Cases of Anemia, Nervous Deficiency, Malnutrition, Disordered Metabolism, Physical Breakdown, Emaciation, Pellagra, Skin Troubles, and Lack of Energy and Endurance.) No. 6,004; Feb. 28.
- Mathews, Frederick C., Company, Detroit, Mich. "Detroit Creamery Velvet Brand Ice Cream." (For Advertising Purposes for Ice Cream.) No. 6,088; May 2.
- Mathews, Frederick C., Company, Detroit, Mich. "Frost-Bite." (For Advertising Purposes for Ice Cream.) No. 6,365; Oct. 31.
- Mayer, Oscar, & Company, Inc., Chicago, Ill. "Oscar Mayer's Approved Meat Products." (For Advertising Purposes for Meat Products of Pork Variety.) No. 6,109; May 9.
- Mead Johnson & Company, Evansville, Ind. "Scientific Control vs. Indiscriminate Feeding." (For Advertising Purposes for Mead's Infant Diet Materials.) No. 6,216; July 18.
- Mennen Company, The, Newark, N. J. "Mamma's Inside Buying my Mennen Talcum." (For Advertising Purposes for Mennen Talcum.) No. 6,110; May 9.
- Mennen Company, The, Newark, N. J. "For Babies' Irritated Skin and Grown-Ups Too." (For Advertising Purposes for Kora-Konia, a Soothing Healing Powder.) No. 6,366; Oct. 31.
- Mennen Company, The, Newark, N. J. "Mennen Shaving Cream Takes the Fight Out of the Scrappiest Beard That Ever Bristled." (For Advertising Purposes for Mennen Shaving Cream.) No. 6,367; Oct. 31.
- Mennen Company, The, Newark, N. J. "Mennen Borated Talcum Safest for Baby." (For Advertising Purposes for Mennen's Talcum Powder.) No. 6,368; Oct. 31.
- Mennen Company, The, Newark, N. J. "Mennen Shaving Cream." (For Advertising Purposes for Mennen's Shaving Cream.) No. 6,369; Oct. 31.
- Mennen Company, The, Newark, N. J. "Kora-Konia For Diaper Rash Teething Rash Prickly Heat Scalding Chafing, etc., etc." (For Advertising Purposes for Kora-Konia.) No. 6,370; Oct. 31.
- Mennen Company, The, Newark, N. J. "A full line of Baby Necessities." (For Advertising Purposes for Mennen Toilet Preparations.) No. 6,371; Oct. 31.
- Mennen Company, The, Newark, N. J. "Kora-Konia A Soothing Healing Powder." (For Advertising Purposes for Kora-Konia.) No. 6,372; Oct. 31.
- Mennen Company, The, Newark, N. J. "The Wonder Powder For Baby's Skin Irritations." (For Advertising Purposes for Kora-Konia.) No. 6,373; Oct. 31.
- Mennen Company, The, Newark, N. J. "3 inch of Mennen shaving cream for a perfect shave." (For Advertising Purposes for Mennen Shaving Cream.) No. 6,385; Nov. 7.
- Mennen Company, The, Newark, N. J. "Mennen Borated Talcum a Safeguard in the Nursery for half a Century." (For Advertising Purposes for Mennen Talcum Powder.) No. 6,386; Nov. 7.
- Mennen Company, The, Newark, N. J. "Now for a quick smooth Shave with Mennen Shaving Cream." (For Advertising Purposes for Mennen's Shaving Cream.) No. 6,387; Nov. 7.
- Mennen Company, The, Newark, N. J. "Mennen 'Talcum For Men,' a Man's Powder made especially for men." (For Advertising Purposes for Mennen's Talcum for Men.) No. 6,388; Nov. 7.
- Mennen Company, The, Newark, N. J. "Kora-Konia for Skin Irritations made by Mennen—but not a talcum." (For Advertising Purposes for Kora-Konia Toilet Powder.) No. 6,389; Nov. 7.
- Mennen Company, The, Newark, N. J. "3 Inch of Cream, plenty of water, hot or cold, make a lather that will tame the toughest beard." (For Advertising Purposes for Mennen's Shaving Cream.) No. 6,390; Nov. 7.
- Mennen Company, The, Newark, N. J. "Shave the easiest way with Mennen Shaving Cream and finish a Good Job with Talcum For Men." (For Advertising Purposes for Mennen's Shaving Cream and Mennen's Talcum Powder.) No. 6,391; Nov. 7.
- Mennen Company, The, Newark, N. J. "Swap—for the Mennen Tube." (For Advertising Purposes for Mennen Shaving Cream.) No. 6,392; Nov. 7.
- Menter Co. Inc., The, New York, N. Y. "The Menter Plan of Home Budgets." (For Advertising Purposes for an Account Book Called The Menter Plan of Home Budgets.) No. 6,165; June 20.
- Merchants Coffee Co. of New Orleans, Ltd., New Orleans, La. "Be Coffee Wise Not Coupon Foolish." (For Advertising Purposes for Coffee.) No. 6,043; Mar. 14.
- Metsan Dental Mfg. Co., New York, N. Y. "Metsan Aseptic Needles." (For Advertising Purposes for Aseptic Needles.) No. 6,147; June 6.
- Michaels, Harry C., Co., New York, N. Y. "Taking Industry Out of the Shadow of the Pen." (For Advertising Purposes for Bookkeeping Machines.) No. 5,971; Feb. 14.
- Miles Manufacturing Company Incorporated, The, Los Angeles, Calif. "This is Jell-Well." (For Advertising Purposes for Compound of Sugar, Gelatin, and Fruit Acid.) No. 6,255; Aug. 8.
- Milgrom, Henry, New York, N. Y. "Vision Simplified." (For Advertising Purposes for Optical Goods.) No. 5,927; Jan. 17.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Silver Buckle Raisins." (For Advertising Purposes for Raisins.) No. 5,972; Feb. 14.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Mrs. Graf's Home Made Candies." (For Advertising Purposes for Candy.) No. 5,973; Feb. 14.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Choc-O-Mint Do-Nut." (For Advertising Purposes for a Candy Specialty.) No. 6,005; Feb. 28.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Nasco." (For Advertising Purposes for After-Dinner Mints.) No. 6,006; Feb. 28.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Old Fashion Chocolate Creams." (For Advertising Purposes for Chocolate Creams.) No. 6,007; Feb. 28.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Johnson's Prepared Wax." (For Advertising Purposes for Prepared Wax.) No. 6,044; Mar. 14.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Fruitmax." (For Advertising Purposes for Assorted Fruit Bonbons.) No. 6,078; Apr. 25.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Cherries." (For Advertising Purposes for Chocolate-Covered Cherries in Cream.) No. 6,089; May 2.

Alphabetical list of registrants of prints—Continued.

- Milwaukee Paper Box Company, Milwaukee, Wis. "Banner Brush." (For Advertising Purposes for Brushes.) No. 6,090; May 2.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Aunt Molly's Butter Creams." (For Advertising Purposes for Butter Creams.) No. 6,111; May 9.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Roberta Sugar Wafers." (For Advertising Purposes for Sugar Wafers with Cream Filling.) No. 6,112; May 9.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Uncle Tom's Nigger Toe." (For Advertising Purposes for Chocolate Bars Containing a Niggertoe.) No. 6,113; May 9.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Gunz-Durley Candies." (For Advertising Purposes for Candy.) No. 6,114; May 9.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Bachelor Almond Bar." (For Advertising Purposes for an Almond Bar.) No. 6,115; May 9.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Coco Ridges." (For Advertising Purposes for Chocolate-Covered Cocoanut Bars.) No. 6,116; May 9.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Racine Heel Protector." (For Advertising Purposes for a Knitted Non-Slip Lining.) No. 6,148; June 6.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Made Better Antiseptic Tooth Paste." (For Advertising Purposes for Tooth Paste.) No. 6,166; June 20.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Fruit and Nut Bar." (For Advertising Purposes for a Fruit and Nut Bar.) No. 6,167; June 20.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Mercury Speed Patch." (For Advertising Purposes for a Self-Vulcanizing Rubber Repair Patch.) No. 6,168; June 20.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Baby-Bo Milk Nut." (For Advertising Purposes for a Milk Nut Bar.) No. 6,190; June 27.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Yum Yum." (For Advertising Purposes for a Candy Specialty.) No. 6,242; Aug. 1.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Mollo Milk Bar." (For Advertising Purposes for a Chocolate-Covered Almond and Nougat Bar.) No. 6,243; Aug. 1.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Winner." (For Advertising Purposes for Candy Bars.) No. 6,265; Aug. 15.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Goody Cake." (For Advertising Purposes for Candy Bars.) No. 6,266; Aug. 15.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Perfection Peanut-Cream Bar." (For Advertising Purposes for a Peanut and Cream Bar.) No. 6,267; Aug. 15.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Peth's Candy Bars." (For Advertising Purposes for Candy Bars.) No. 6,283; Aug. 29.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Teckemeyer's Menthol Hoarhound." (For Advertising Purposes for Menthol Hoarhound Drops.) No. 6,284; Aug. 29.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Spuds." (For Advertising Purposes for a Candy Specialty.) No. 6,301; Sept. 5.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Hohlweck's Original Cinnamon Balls." (For Advertising Purposes for Cinnamon Balls.) No. 6,374; Oct. 31.
- Mirror Patented Stove Pipe Company, The, Hartford, Conn. "A Bright Kitchen." (For Advertising Purposes for Stove Pipes.) No. 6,079; Apr. 25.
- Monroe Calculating Machine Co., New York, N. Y. "Makes All Figuring as Easy as Turning the Crank." (For Advertising Purposes for Monroe Calculating Machines.) No. 6,201; July 4.
- Mt. Union Tanning-Extract Co., Mount Union, Pa. "Greene Line Big Five Taps." (For Advertising Purposes for Sole Leather.) No. 6,244; Aug. 1.
- Mulconroy Company, Inc., Philadelphia, Pa. "Hose Mulconroy." (For Advertising Purposes for Hose for Conveying Steam, Water, Air, Oil, Gas, Gasoline, Chemicals, Paint, Sand, etc.) No. 6,209; July 11.
- Murphy, Frank G., Mason City, Iowa. "Beauty Brows." (For Advertising Purposes for Eyeglasses and Spectacles.) No. 6,202; July 4.
- National Carbon Co., Inc., Cleveland, Ohio. "Be Sure It's a Columbia for Every Dry Battery Use." (For Advertising Purposes for Columbia Ignitor Batteries and Columbia Hot Shot Batteries.) No. 5,928; Jan. 17.
- National Carbon Co., Inc., Cleveland, Ohio. "Columbia Batteries for Door Bells & Buzzers." (For Advertising Purposes for Columbia Batteries.) No. 5,929; Jan. 17.
- National Carbon Co., Inc., Cleveland, Ohio. "Columbia Batteries for Gas Engines." (For Advertising Purposes for Columbia Batteries.) No. 5,930; Jan. 17.
- National Carbon Co., Inc., Cleveland, Ohio. "Columbia Batteries for Toys and Wireless." (For Advertising Purposes for Columbia Batteries.) No. 5,931; Jan. 17.
- National Carbon Co., Inc., Cleveland, Ohio. "Columbia Batteries for Ford Starting." (For Advertising Purposes for Columbia Batteries.) No. 5,932; Jan. 17.
- National Carbon Co., Inc., Cleveland, Ohio. "Columbia Batteries." (For Advertising Purposes for Columbia Batteries.) No. 5,933; Jan. 17.
- National Carbon Co., Inc., Cleveland, Ohio. "Flashlights Batteries Fortified to Give Longer Service." (For Advertising Purposes for American Flashlights and Batteries.) No. 5,934; Jan. 17.
- National Carbon Co., Inc., Cleveland, Ohio. "Help! Save the Lamp." (For Advertising Purposes for American Flashlights.) No. 5,935; Jan. 17.
- National Carbon Co., Inc., Cleveland, Ohio. "An American Flashlight—A Vacation Necessity." (For Advertising Purposes for American Flashlights.) No. 5,936; Jan. 17.
- National Carbon Co., Inc., Cleveland, Ohio. "Flashlights—Batteries Puts Night to Flight." (For Advertising Purposes for American Flashlights and Batteries.) No. 5,937; Jan. 17.
- National Carbon Co., Inc., Cleveland, Ohio. "Columbia Storage Batteries." (For Advertising Purposes for Columbia Storage Batteries.) No. 5,938; Jan. 17.
- National Enameling & Stamping Co., Inc., Milwaukee, Wis. "Open your kitchen door for the Nesco boy with his famous Kitchen Utensils." (For Advertising Purposes for Kitchen Utensils.) No. 6,080; Apr. 25.
- National Paper & Type Co., The, New York, N. Y. "Eldorado Brand Typewriter Ribbons Non-Filling and Durable." (For Advertising Purposes for Eldorado Typewriter Ribbons.) No. 6,203; July 4.
- Nesmoht Sales Co. (See Thomsen, John H.)
- Newlyn, Thos. J., doing business as the Beautypeel Cosmetic Co., El Paso, Tex. "Unmask Your Hidden Beauty." (For Advertising Purposes for Cosmetic Lotions for Beautifying the Skin and Eradicating Blemishes Thereof.) No. 6,308; Sept. 12.
- Niles-Bement-Pond Company, New York, N. Y. "The Typical Maag Tooth." (For Advertising Purposes for Involute, Spur, Helical, and Herringbone Gearing Made by a Generating Process.) No. 6,336; Oct. 17.
- Non-Rip Silk Hosiery Mills Inc., New York, N. Y. "Featuring The Non Rip Silk Hosiery." (For Advertising Purposes for Hosiery.) No. 6,217; July 18.
- Noveltex, Inc., New York, N. Y. "Noveltex Fabrics." (For Advertising Purposes for Cotton Piece Goods in the Piece.) No. 6,337; Oct. 17.
- Off 'N' On Chain Corporation, New York, N. Y. "Off 'N' On Chains." (For Advertising Purposes for Automobile Tire Chains.) No. 6,169; June 20.
- Olafson-Cohen-Andrews Mfg. Co. Inc., St. Paul, Minn. "The Sanitary Talcum Powder Dispenser." (For Advertising Purposes for Packages Containing Talcum-Powder Pads and Talcum-Powder-Pad Holders.) No. 6,091; May 2.
- Olsen, Andrew, Jr., San Francisco, Calif. "Golden Nugget Fudge." (For Advertising Purposes for Fudge.) No. 5,974; Feb. 14.
- Oppenheim Oberndorf & Co. Inc., doing business as Franklin Manufacturing Company, Baltimore, Md. "Krinkle Tex Fabric." (For Advertising Purposes for Cotton Piece Goods.) No. 6,354; Oct. 24.
- Packard Engineering Co., The, Cleveland, Ohio. "Lovejoy Hydraulic Shock Absorbers." (For Advertising Purposes for Shock Absorbers.) Nos. 6,134-6; May 30.
- Packard Engineering Co., The, Cleveland, Ohio. "Lovejoy Hydraulic Shock Absorbers." (For Advertising Purposes for Shock Absorbers.) No. 6,355; Oct. 24.
- Palmolive Company, The, Milwaukee, Wis. "This Beauty Every Girl Can Have." (For Advertising Purposes for Palmolive Soap.) No. 5,987; Feb. 21.
- Palmolive Company, The, Milwaukee, Wis. "A Beauty Secret 3,000 Years Old." (For Advertising Purposes for Palmolive Soap.) No. 6,008; Feb. 28.
- Palmolive Company, The, Milwaukee, Wis. "The Happiest Time of Her Life." (For Advertising Purposes for Palmolive Soap.) No. 6,045; Mar. 14.
- Palmolive Company, The, Milwaukee, Wis. "Keep That Wedding Day Complexion." (For Advertising Purposes for Palmolive Soap.) No. 6,061; Apr. 4.
- Palmolive Company, The, Milwaukee, Wis. "Pretty Girls Have Always Known the Secret." (For Advertising Purposes for Palmolive Soap.) No. 6,117; May 9.
- Palmolive Company, The, Milwaukee, Wis. "Pretty when she wakes up." (For Advertising Purposes for Palmolive Soap.) No. 6,149; June 6.
- Palmolive Company, The, Milwaukee, Wis. "The Six Secrets of an Ideal Shaving Cream." (For Advertising Purposes for Shaving Cream.) No. 6,170; June 20.
- Palmolive Company, The, Milwaukee, Wis. "To Fair-Minded Men." (For Advertising Purposes for Shaving Cream.) No. 6,171; June 20.
- Palmolive Company, The, Milwaukee, Wis. "A Gift Cake for Every Child to Make Them Enjoy Washing." (For Advertising Purposes for Palmolive Soap.) No. 6,172; June 20.
- Palmolive Company, The, Milwaukee, Wis. "Making Palmolive 3,000 Years Ago." (For Advertising Purposes for Palmolive Soap.) No. 6,173; June 20.
- Palmolive Company, The, Milwaukee, Wis. "Good Business." (For Advertising Purposes for Shaving Cream.) No. 6,174; June 20.
- Palmolive Company, The, Milwaukee, Wis. "Better than Jewels." (For Advertising Purposes for Palmolive Soap.) No. 6,191; June 27.

- Palmolive Company, The, Milwaukee, Wis. "What is the matter with your hair?" (For Advertising Purposes for Shampoo.) No. 6,229; July 25.
- Palmolive Company, The, Milwaukee, Wis. "What is the matter with your hair?" (For Advertising Purposes for Shampoo.) No. 6,245; Aug. 1.
- Palmolive Company, The, Milwaukee, Wis. "Would your husband marry you again?" (For Advertising Purposes for Palmolive Soap.) No. 6,285; Aug. 29.
- Palmolive Company, The, Milwaukee, Wis. "Moments Which Count." (For Advertising Purposes for Palmolive Soap.) No. 6,286; Aug. 29.
- Palmolive Company, The, Milwaukee, Wis. "Why fade at 30?" (For Advertising Purposes for Palmolive Soap.) No. 6,287; Aug. 29.
- Palmolive Company, The, Milwaukee, Wis. "Are you giving your hair the right treatment?" (For Advertising Purposes for Palmolive Shampoo.) No. 6,302; Sept. 5.
- Palmolive Company, The, Milwaukee, Wis. "Still—That Schoolgirl Complexion." (For Advertising Purposes for Palmolive Soap.) No. 6,317; Oct. 3.
- Palmolive Company, The, Milwaukee, Wis. "The real reason for a pretty skin." (For Advertising Purposes for Palmolive Soap.) No. 6,356; Oct. 24.
- Palmolive Company, The, Milwaukee, Wis. "Made to Order." (For Advertising Purposes for Shaving Cream.) No. 6,393; Nov. 7.
- Palmolive Company, The, Milwaukee, Wis. "Make Your Dreams Come True." (For Advertising Purposes for Palmolive Soap.) No. 6,420; Nov. 14.
- Parched Wheat Co., The, Fostoria, Ohio. "That Nutty Flavor." (For Advertising Purposes for a Cereal Known as Parched Wheat.) No. 6,338; Oct. 17.
- Parker Pen Company, Janesville, Wis. "Parker Fountain Pen." (For Advertising Purposes for Fountain Pens.) No. 5,988; Feb. 21.
- Partridge, Josiah, & Sons, Incorporated, New York, N. Y. "Mov-Ezy Means Ease at the Movies." (For Advertising Purposes for Theater Chairs.) No. 6,309; Sept. 12.
- Pennsylvania Wire Glass Company, Philadelphia, Pa. "C. W. G. (Corrugated Wire Glass)." (For Advertising Purposes for Corrugated Wire Glass.) No. 6,009; Feb. 28.
- Pepsodent Company, The, Chicago, Ill. "Pepsodent The New-Day Tooth Paste Protects Young Teeth." (For Advertising Purposes for Pepsodent Dentifrice.) No. 6,394; Nov. 7.
- Pepsodent Company, The, Chicago, Ill. "Pepsodent The New-Day Dentifrice Protects Young Teeth." (For Advertising Purposes for Pepsodent Dentifrice.) No. 6,395; Nov. 7.
- Pepsodent Company, The, Chicago, Ill. "Nothing so Pretty as beautiful teeth. Watch them whiten as the film-coats disappear." (For Advertising Purposes for Pepsodent Dentifrice.) No. 6,396; Nov. 7.
- Pepsodent Company, The, Chicago, Ill. "Nothing so Pretty as beautiful teeth." (For Advertising Purposes for Pepsodent Dentifrice.) No. 6,397; Nov. 7.
- Pepsodent Company, The, Chicago, Ill. "Protect Young Teeth." (For Advertising Purposes for Pepsodent Dentifrice.) No. 6,398; Nov. 7.
- Phillips-Jones Corporation, New York, N. Y. "The Phillips Cuff Shirt." (For Advertising Purposes for Shirts Provided with a Special Kind of Cuff.) No. 6,010; Feb. 28.
- Phillips-Jones Corporation, New York, N. Y. "Van Heusen the World's Smartest Collar." (For Advertising Purposes for Collars.) No. 6,011; Feb. 28.
- Phillips-Jones Corporation, New York, N. Y. "Van Craft the New Shirt with the Van Heusen Collar Attached." (For Advertising Purposes for Shirts Provided with a Special Kind of Collar.) No. 6,046; Mar. 14.
- Phillips-Jones Corporation, New York, N. Y. "Van Heusen the World's Smartest Collar." (For Advertising Purposes for Collars.) No. 6,137; May 30.
- Phillips-Jones Corporation, New York, N. Y. "The Phillips Cuff Shirt." (For Advertising Purposes for Shirts.) No. 6,138; May 30.
- Phillips-Jones Corporation, New York, N. Y. "Van Heusen the World's Smartest Collar." (For Advertising Purposes for a Special Kind of Collar.) No. 6,150; June 6.
- Philpsborn's, Inc., Chicago, Ill. "Philpsborn's Lite and Fluff." (For Advertising Purposes for Marabou and Ostrich Ornaments.) No. 5,975; Feb. 14.
- Piccadilly Ink Company, Baltimore, Md. "Piccadilly Ink." (For Advertising Purposes for Said Piccadilly Ink.) No. 6,246; Aug. 1.
- Plumb, Fayette R., Inc., Philadelphia, Pa. "Plumb Double Life." (For Advertising Purposes for Files.) No. 6,288; Aug. 29.
- Postum Cereal Company, Inc., Battle Creek, Mich. "The Right of Way to a Good Breakfast." (For Advertising Purposes for Breakfast Cereals, namely, Corn Flakes.) No. 6,017; Mar. 7.
- Postum Cereal Company, Inc., New York, N. Y. "Instant Postum." (For Advertising Purposes for Postum Cereal.) Nos. 6,327-8; Oct. 10.
- Pratt, B. G., Company, New York, N. Y. "The Complete Dormant Spray." (For Advertising Purposes for Scalecide for the Protection of Trees Against Insects and Fungous Growths.) No. 6,289; Aug. 29.
- Pratt & Lambert—Inc., Buffalo, N. Y. "The lure of the brush." (For Advertising Purposes for Effecto Auto Finishes.) No. 6,432; Nov. 21.
- Pratt & Lambert—Inc., Buffalo, N. Y. "The girl or the car?" (For Advertising Purposes for Effecto Auto Finishes.) No. 6,433; Nov. 21.
- Pratt & Lambert—Inc., Buffalo, N. Y. "The magic of the paint brush." (For Advertising Purposes for "61" Floor Varnish.) No. 6,434; Nov. 21.
- Pratt & Lambert—Inc., Buffalo, N. Y. "A chimneypiece and wood paneling." (For Advertising Purposes for Vitralite, the Long-Life Enamel.) No. 6,435; Nov. 21.
- Pratt & Lambert—Inc., Buffalo, N. Y. "A few strokes of the brush." (For Advertising Purposes for Vitralite, the Long-Life Enamel.) No. 6,436; Nov. 21.
- Pratt & Lambert—Inc., Buffalo, N. Y. "Have you an old table." (For Advertising Purposes for "61" Floor Varnish.) No. 6,443; Nov. 28.
- Pratt & Lambert—Inc., Buffalo, N. Y. "Be it large or small." (For Advertising Purposes for "61" Floor Varnish.) No. 6,444; Nov. 28.
- Pratt & Lambert—Inc., Buffalo, N. Y. "The radiance of reflected sunshine." (For Advertising Purposes for Vitralite the Long-Life Enamel.) No. 6,445; Nov. 28.
- Pratt & Lambert—Inc., Buffalo, N. Y. "The glory of charm." (For Advertising Purposes for Vitralite the Long-Life Enamel.) No. 6,446; Nov. 28.
- Pratt & Lambert—Inc., Buffalo, N. Y. "Up in the garret." (For Advertising Purposes for "61" Floor Varnish.) No. 6,447; Nov. 28.
- Pratt & Lambert—Inc., Buffalo, N. Y. "Youth, an old car." (For Advertising Purposes for Effecto Auto Finishes.) No. 6,448; Nov. 28.
- Price Flavoring Extract Co., Chicago, Ill. "Vanilla Extract is One of the Essentials." (For Advertising Purposes for a Flavoring Extract.) No. 6,047; Mar. 14.
- Price Flavoring Extract Co., Chicago, Ill. "You Sell Quality." (For Advertising Purposes for a Flavoring Extract.) No. 6,048; Mar. 14.
- Price Flavoring Extract Co., Chicago, Ill. "You're Building a Good Safe Foundation." (For Advertising Purposes for a Flavoring Extract.) No. 6,049; Mar. 14.
- Price Flavoring Extract Co., Chicago, Ill. "Price's Vanilla Flavors." (For Advertising Purposes for a Flavoring Extract.) No. 6,050; Mar. 14.
- Price Flavoring Extract Co., Chicago, Ill. "The Next Time You Make Cake." (For Advertising Purposes for a Flavoring Extract.) No. 6,051; Mar. 14.
- Price Flavoring Extract Co., Chicago, Ill. "Prices Little Tropikid is the Symbol." (For Advertising Purposes for a Flavoring Extract.) No. 6,052; Mar. 14.
- Price Flavoring Extract Co., Chicago, Ill. "Dr. Price's Vanilla Gives to Cakes." (For Advertising Purposes for a Flavoring Extract.) No. 6,053; Mar. 14.
- Pyrodento Company, The, Baltimore, Md. "Better Health from a Better Dentifrice." (For Advertising Purposes for Tooth Paste and a Liquid Antiseptic.) No. 5,913; Jan. 10.
- Quint, Leo H., Chicago, Ill. "We Match Your Coat and Vest." (For Advertising Purposes for Ready-Made and Made-to-Measure Pants.) No. 6,018; Mar. 7.
- Rauh & Mack Shirt Co., Cincinnati, Ohio. "Mack's Mum." (For Advertising Purposes for Shirts.) No. 6,204; July 4.
- Real Silk Hosiery Mills, Indianapolis, Ind. "Exclusive Features of Real Silk Fashioned Hosiery." (For Advertising Purposes for Hosiery.) No. 6,118; May 9.
- Remington Arms Company, Inc., The, New York, N. Y. "Remington Firearms and Ammunition." (For Advertising Purposes for Remington Firearms and Ammunition.) No. 6,480; Dec. 19.
- Republic Motor Truck Co., Inc., Alma, Mich. "Republic Rapid Transit." (For Advertising Purposes for Motor Truck and Parts Thereof.) Nos. 5,976-8; Feb. 14.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Bet Your Life, Old Pal—Nothing but P. A. in This Pipe." (For Advertising Purposes for Smoking Tobacco.) No. 5,939; Jan. 17.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "It's P. A. That Jams Such Joy in Jimmy Pipes!" (For Advertising Purposes for Smoking Tobacco.) No. 5,940; Jan. 17.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Why Man—You'll slip a real wedge into the jimmy pipe game when you turkey-trot with P. A.!" (For Advertising Purposes for Smoking Tobacco.) No. 6,062; Apr. 4.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "The 'him' handout that rings the Christmas Chimes!" (For Advertising Purposes for Smoking Tobacco.) No. 6,063; Apr. 4.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "He'll say it's a whale of a Gift." (For Advertising Purposes for Smoking Tobacco.) No. 6,064; Apr. 4.
- Rice, Jerome B., Seed Co., Cambridge, N. Y. "Rice's Flower and Vegetable Seed Hanger for 1921." (For Advertising Purposes for Flower and Vegetable Seeds.) No. 5,914; Jan. 10.
- Rice, Jerome B., Seed Co., Cambridge, N. Y. "Rice's Early Fortune Cucumber." (For Advertising Purposes for Cucumbers.) No. 6,268; Aug. 15.
- Richards, James E., Company, The, Dayton, Ohio. "Office Coats." (For Advertising Purposes for White Duck Clothing.) No. 5,941; Jan. 17.

Alphabetical list of registrants of prints—Continued.

- Richards, James E., Company, The, Dayton, Ohio. "Sport Trousers." (For Advertising Purposes for White Duck Clothing.) No. 5,989; Feb. 21.
- Richards, James E., Company, The, Dayton, Ohio. "Better White Duck Clothing." (For Advertising Purposes for White Duck Clothing.) No. 6,012; Feb. 28.
- Richards, James E., Company, The, Dayton, Ohio. "Sport Trousers." (For Advertising Purposes for White Duck Clothing.) No. 6,218; July 18.
- Richards, James E., Company, The, Dayton, Ohio. "Duck Clothing." (For Advertising Purposes for White Duck Clothing.) No. 6,247; Aug. 1.
- Richards, James E., Company, The, Dayton, Ohio. "Office Coats." (For Advertising Purposes for White Duck Clothing.) No. 6,399; Nov. 7.
- Richards, James E., Company, The, Dayton, Ohio. "Tennis Shirts." (For Advertising Purposes for White Duck Clothing.) No. 6,449; Nov. 28.
- Richards, James E., Company, The, Dayton, Ohio. "Better White Duck Clothing November, 1922." (For Advertising Purposes for White Duck Clothing.) No. 6,450; Nov. 28.
- Riesland, Daniel W., Duluth, Minn. "Therapeutic Traction Couch." (For Advertising Purposes for the Riesland Therapeutic Traction Couch.) Nos. 6,119-20; May 9.
- Rockwood Manufacturing Company, The, Indianapolis, Ind. "Rockwood Paper Pulleys." (For Advertising Purposes for Power-Transmission Pulleys.) No. 6,175; June 20.
- Roethlisberger & Co. Inc., New York, N. Y. "Once You Try You'll Always Buy." (For Advertising Purposes for Cheese.) No. 6,421; Nov. 14.
- Rosenberger, Martin, Cincinnati, Ohio. "The Finishing Touch." (For Advertising Purposes for Wall Paper.) No. 6,339; Oct. 17.
- Roulette Company, Cincinnati, Ohio. "Roulette." (For Advertising Purposes for a Game.) No. 6,303; Sept. 5.
- Russell Stover Company, Chicago, Ill. "Eskimo Pie." (For Advertising Purposes for Confections.) No. 6,139; May 30.
- Salz Brothers, New York, N. Y. "Black & White." (For Advertising Purposes for Fountain Pens.) No. 6,151; June 6.
- Saxe, William W., Boston, Mass. "Polar Patties." (For Advertising Purposes for a Confection Comprising Ice Cream as a Principal Ingredient.) No. 6,205; July 4.
- Schneider, George, Rochester, N. Y. "Knock 'em over." (For Advertising Purposes for a Game.) No. 6,176; June 20.
- Sealpax Co., The, Baltimore, Md. "What is she saying?" (For Advertising Purposes for Sealpax Athletic Underwear.) No. 6,230; July 25.
- Seltzer, Theodore, West Hoboken, N. J. "Say Ben-Gay." (For Advertising Purposes for Baume Bengué.) No. 6,177; June 20.
- Severin, Albert A., Chicago, Ill. "To Advertise the Stamford Fountain Pen." (For Advertising Purposes for Fountain Pens.) No. 6,192; June 27.
- Sexton Manufacturing Company, Fairfield, Ill. "Sexton Balloon Seat Underwear." (For Advertising Purposes for Athletic Underwear.) No. 6,329; Oct. 10.
- Shaughnessy, W. L., Co. Inc., Gardner, Mass. "Daintee Corn Holder." (For Advertising Purposes for a Corn Holder.) No. 6,092; May 2.
- Shepard Chemical Co. Inc., New York, N. Y. "Kill The Fly." (For Advertising Purposes for Shepard Fly and Insect Killer and Also Shepard Cattle Spray and Veterinary Liniment.) No. 6,318; Oct. 3.
- Simon Coat Co., The, Boston, Mass. "Dinty's Sheep Coat." (For Advertising Purposes for Sheep-Lined Coats.) No. 6,093; May 2.
- Simon Coat Co., The, Boston, Mass. "Simon's Pocket-Jerkin." (For Advertising Purposes for Our Leather Woolen-Cloth-Lined Vest with Pockets.) No. 6,248; Aug. 1.
- Singer Manufacturing Company, The, Elizabeth, N. J. "Singer Sewing Motor." (For Advertising Purposes for Sewing Motors.) No. 6,219; July 18.
- Singer Manufacturing Company, The, Elizabeth, N. J. "Singer Portable Electric." (For Advertising Purposes for Portable Electric Sewing Machines.) No. 6,220; July 18.
- Singer Manufacturing Company, The, Elizabeth, N. J. "Singer Electric Fans." (For Advertising Purposes for Electric Fans.) No. 6,221; July 18.
- Smith Wallace Shoe Company, Chicago, Ill. "The Kinder-Garten Kids." (For Advertising Purposes for Shoes.) No. 5,948; Jan. 31.
- Somerville Brush Company, Somerville, Mass. "No Home Complete Without a Sum-Vil Dry Mop." (For Advertising Purposes for Mops.) No. 6,231; July 25.
- Square D Company, Detroit, Mich. "Square D Safety Switch." (For Advertising Purposes for Electric Switches.) No. 6,340; Oct. 17.
- Squibb, E. R., & Sons, New York, N. Y. "The Priceless Ingredient." (For Advertising Purposes for Drugs.) No. 6,140; May 30.
- Squibb, E. R., & Sons, New York, N. Y. "With Brains, Sir." (For Advertising Purposes for Drugs.) No. 6,141; May 30.
- Squibb, E. R., & Sons, New York, N. Y. "Better Than Riches." (For Advertising Purposes for Drugs.) No. 6,142; May 30.
- Squibb, E. R., & Sons, New York, N. Y. "The Greater Responsibility." (For Advertising Purposes for Drugs.) No. 6,143; May 30.
- Squibb, E. R., & Sons, New York, N. Y. "Perfected For You." (For Advertising Purposes for Drugs.) No. 6,256; Aug. 8.
- Squibb, E. R., & Sons, New York, N. Y. "Dependability Plus." (For Advertising Purposes for Drugs.) No. 6,257; Aug. 8.
- Squibb, E. R., & Sons, New York, N. Y. "Steadfast Through the Years." (For Advertising Purposes for Drugs.) No. 6,258; Aug. 8.
- Squibb, E. R., & Sons, New York, N. Y. "A Great Tradition Sustained." (For Advertising Purposes for Drugs.) No. 6,422; Nov. 14.
- Squibb, E. R., & Sons, New York, N. Y. "The 'Priceless Ingredient' is Your Safeguard." (For Advertising Purposes for Drugs.) No. 6,423; Nov. 14.
- Squibb, E. R., & Sons, New York, N. Y. "Special introductory offer." (For Advertising Purposes for Squibb's Magnesia Dental Cream.) No. 6,451; Nov. 28.
- Sta-Brite Auto Painting Co., Newark, N. J. "Sta-Brite." (For Advertising Purposes for Automobile Paints.) No. 6,310; Sept. 12.
- Standard Tire Company, The, Willoughby, Ohio. "Tiger-Foot." (For Advertising Purposes for Tires.) No. 6,094; May 2.
- Stays Neat Mattress Company. (See Cohn, Louis I.)
- Stein, A., & Company, Chicago, Ill. "3000 Hours of Solid Comfort." (For Advertising Purposes for Garters.) No. 5,990; Feb. 21.
- Steinfeld Bros., New York, N. Y. "Homaid Freezer." (For Advertising Purposes for Ice-Cream Freezers.) No. 6,121; May 9.
- Steinfeld Bros., New York, N. Y. "Snow Peak Freezer." (For Advertising Purposes for Ice-Cream Freezers.) No. 6,122; May 9.
- Steinfeld Bros., New York, N. Y. "Frigid Freezer." (For Advertising Purposes for Ice-Cream Freezers.) No. 6,123; May 9.
- Steinfeld Bros., New York, N. Y. "'Jiffy' Folding Card Table De Luxe." (For Advertising Purposes for Folding Card Tables.) No. 6,206; July 4.
- Stevenson, T. W., Co., Minneapolis, Minn. "From Daddy to Laddie." (For Advertising Purposes for Lamb and Leather Lined Coats.) No. 5,991; Feb. 21.
- Stewart Sand Company, Kansas City, Mo. "Redglo." (For Advertising Purposes for Coke.) No. 6,193; June 27.
- Stowell, J. C., Company, The, Ithaca, N. Y. "University." (For Advertising Purposes for Cigars.) No. 6,232; July 25.
- Sunny Susan Laboratories, Inc., Buffalo, N. Y. "Certificate of Purchase." (For Advertising Purposes for Freckle Cream.) No. 6,249; Aug. 1.
- Sunny Susan Laboratories, Inc., Buffalo, N. Y. "Sunny Susan Freckle Cream." (For Advertising Purposes for Freckle Cream.) No. 6,250; Aug. 1.
- Sweater & Knitted Textile Publicity Bureau, Inc., Baltimore, Md. "Knitted Outerwear deserves the preference." (For Advertising Purposes for Knitted Outerwear.) No. 6,233; July 25.
- Syracuse Basket Company Inc., Syracuse, N. Y. "Syracuse." (For Advertising Purposes for Baskets of All Descriptions.) No. 6,311; Sept. 12.
- Terre Haute Brewing Company, Terre Haute, Ind. "C. V. That Ever Welcome beverage." (For Advertising Purposes for a Nonalcoholic Beverage.) No. 6,424; Nov. 14.
- Thearle-Duffield Fireworks Co., Chicago, Ill. "The Burning of Smyrna." (For Advertising Purposes for Spectacular Burning of Fireworks Displaying the Burning of Smyrna.) No. 6,481; Dec. 19.
- Thompson, Anna E., Washington, D. C. "'Say Buick'." (For Advertising Purposes for Automobiles.) No. 6,304; Sept. 5.
- Thompson, G. H., Manitowoc, Wis. "Don't say Cigar—say Judge." (For Advertising Purposes for Cigars.) No. 6,400; Nov. 7.
- Thomsen, John H., doing business as Nesmoht Sales Co., Omaha, Nebr. "The Last Word in Obstetrics." (For Advertising Purposes for Obstetrical Tables.) No. 6,269; Aug. 15.
- Thornton, Frank C., Benson, Minn. "Glacier Trail." (For Advertising Purposes for Road Markers.) No. 5,979; Feb. 14.
- Timson Bros. Inc., Boston, Mass. "Timbro Cog-Wheel Display of Standard Trade-Marked Parts." (For Advertising Purposes for Shoes.) No. 5,942; Jan. 17.
- Toewear Hosiery Inc., Norristown, Pa. "Toewear Facts." (For Advertising Purposes for Hosiery.) No. 6,178; June 20.
- Tompkins, Wallace W., Buffalo, N. Y. "Hypex." (For Advertising Purposes for Sleeve Valves for Internal-Combustion Engines.) No. 6,234; July 25.
- Truettner, Walter G., Milwaukee, Wis. "The Bungalow Man." (For Advertising Purposes for Dwelling Houses.) No. 6,319; Oct. 3.
- Tuscan Tire & Rubber Company, The, Carrollton, Ohio. "Pillars of Strength." (For Advertising Purposes for Tuscan Tubes and Tires.) No. 6,482; Dec. 19.
- Ulrich, George J., Milwaukee, Wis. "Decide This Today." (For Advertising Purposes for Dwelling Houses.) No. 6,320; Oct. 3.

Alphabetical list of registrants of prints—Continued.

- Underwood Typewriter Company, New York, N. Y. "Underwood Standard Portable." (For Advertising Purposes for Typewriting Machines.) No. 5,943; Jan. 17.
- Underwood Typewriter Company, New York, N. Y. "Giving Wings to Words." (For Advertising Purposes for Typewriting Machines.) No. 6,081; Apr. 25.
- Underwood Typewriter Company, New York, N. Y. "Underwood Soundproof Cabinet." (For Advertising Purposes for Typewriting Machines.) No. 6,124; May 9.
- Union Piano Co., Chicago, Ill. "Piano Sale." (For Advertising Purposes for Pianos.) Nos. 6,207-8; July 4.
- U. S. Materials Co., Chicago, Ill. "Elastica." (For Advertising Purposes for an Exterior Wall Plaster or Stucco.) No. 6,270; Aug. 15.
- U. S. Materials Co., Chicago, Ill. "Complete In a Sack." (For Advertising Purposes for "Elastica," an Exterior Wall Plaster or Stucco.) No. 6,271; Aug. 15.
- United States Foll Company, Louisville, Ky. "I ain't mad at nobody!" (For Advertising Purposes for an Ice-Cream Confection.) No. 6,065; Apr. 4.
- United States Foll Company, Louisville, Ky. "Eskimo Pie." (For Advertising Purposes for an Ice-Cream Confection.) No. 6,066; Apr. 4.
- United States Tent & Awning Company, Chicago, Ill. "Outdoor." (For Advertising Purposes for Tents and Portable Houses.) No. 6,054; Mar. 14.
- Universal Industrial Corporation, Hackensack, N. J. "Universal Hose Clamp Display Stand." (For Advertising Purposes for a Display Stand for Hose Clamps.) No. 6,486; Dec. 26.
- Van Cott Bros. Inc., New York, N. Y. "Freeplay." (For Advertising Purposes for Baseball Uniforms.) No. 6,357; Oct. 24.
- Wade, Frank C., West Liberty, Ohio. "The Original Doctor John Sloan Liniment." (For Advertising Purposes for a Liniment for Use on Man or Beast.) No. 6,125; May 9.
- Wadhams Oil Company, Milwaukee, Wis. "Tempered Motor Oil." (For Advertising Purposes for Motor-Lubricating Oil.) No. 6,321; Oct. 3.
- Wadhams Oil Company, Milwaukee, Wis. "True Gasoline." (For Advertising Purposes for Internal-Combustion-Engine Gasoline.) No. 6,322; Oct. 3.
- Wahl Company, The, Chicago, Ill. "Eversharp Ribbon Guards." (For Advertising Purposes for Ribbon Guards.) No. 6,013; Feb. 28.
- Wantland, L. J., doing business as Danderide Mfg. Co., Oklahoma, Okla. "Danderide." (For Advertising Purposes for Hair Tonic.) No. 6,222; July 13.
- Ward, James E., Springfield, Ohio. "Battery." (For Advertising Purposes for Storage Batteries.) No. 6,483; Dec. 19.
- Watkins, R. L., Company, The, Cleveland, Ohio. "Beauty Wins." (For Advertising Purposes for Coconut-Oil Shampoo.) No. 6,290; Aug. 29.
- Watkins, R. L., Company, The, Cleveland, Ohio. "Always Charming!" (For Advertising Purposes for Coconut-Oil Shampoo.) No. 6,291; Aug. 29.
- Watkins, R. L., Company, The, Cleveland, Ohio. "How To Have Really Beautiful Hair." (For Advertising Purposes for Watkins Multisified Coconut-Oil Shampoo.) No. 6,330; Oct. 10.
- Watkins, R. L., Company, The, Cleveland, Ohio. "What Proper Shampooing Does For Your Hair." (For Advertising Purposes for Watkins Multisified Coconut-Oil Shampoo.) No. 6,331; Oct. 10.
- Watkins, R. L., Company, The, Cleveland, Ohio. "Making Your Hair Improve Your Looks." (For Advertising Purposes for Watkins's Multisified Coconut-Oil Shampoo.) No. 6,375; Oct. 31.
- Watkins, R. L., Company, The, Cleveland, Ohio. "How to Keep Your Hair Rich-Looking, Neat and Orderly." (For Advertising Purposes for Glostora.) No. 6,376; Oct. 31.
- Watkins, R. L., Company, The, Cleveland, Ohio. "How to Add More Gloss and Lustre to Your Hair." (For Advertising Purposes for Glostora.) No. 6,377; Oct. 31.
- Watkins, R. L., Company, The, Cleveland, Ohio. "What Proper Shampooing Does For Your Hair." (For Advertising Purposes for Watkins's Multisified Coconut-Oil Shampoo.) No. 6,378; Oct. 31.
- Watkins, R. L., Company, The, Cleveland, Ohio. "Keeping a Child's Hair Beautiful." (For Advertising Purposes for Watkins's Multisified Coconut-Oil Shampoo.) No. 6,379; Oct. 31.
- Wenatchee-Okanogan Co-Operative Federation, Wenatchee, Wash. "The Right Time for Every Apple." (For Advertising Purposes for Apples.) No. 6,487; Dec. 26.
- West Varnish Co., Boston, Mass. "Indestructo." (For Advertising Purposes for Varnish.) No. 6,095; May 2.
- Western Fruits Products Co., Dubuque, Iowa. "Vin-Rose." (For Advertising Purposes for a Fruit Beverage.) No. 6,235; July 25.
- Wetmore, S. H., Company, The, New York, N. Y. "A Man's Story To Men." (For Advertising Purposes for Suspensories.) No. 6,292; Aug. 29.
- Wetzel, Paul, New Rochelle, N. Y. "Dr. Paul Wetzel's Elastic Arch-Gripper." (For Advertising Purposes for a Circular Elastic Arch Support.) No. 6,251; Aug. 1.
- White, Jessie B., Cranston, R. I. "Milady's Boudoir Pocket." (For Advertising Purposes for a Suspensible Pocket Device.) No. 6,082; Apr. 25.
- Widney, Company, The. "Advance Modulimeter Tested." (For Advertising Purposes for Washers and Gaskets.) No. 5,980; Feb. 14.
- Williams, Abraham E., doing business as The Williams Awning Co., Chicago, Ill. "Shade It With Awnings." (For Advertising Purposes for Awnings.) No. 6,484; Dec. 19.
- Williams Awning Co., The. (See Williams, Abraham E.)
- Willow Weaving Co., Inc., New York, N. Y. "Tubulosophy Tubulosophers." (For Advertising Purposes for Tubular Knit and Woven Neckties and Scarfs.) No. 6,083; Apr. 25.
- Willow Weaving Co. Inc., New York, N. Y. "New Line Willow Weave Wash Ties." (For Advertising Purposes for Tubular and Cut Wash Ties.) No. 6,380; Oct. 31.
- Willson Goggles Inc., Reading, Pa. "Wherever the Sun Shines and the Wind Blows." (For Advertising Purposes for Goggles.) No. 6,453; Dec. 5.
- Willson Goggles, Inc., Reading, Pa. "Eyes Tired?" (For Advertising Purposes for Goggles.) No. 6,488; Dec. 26.
- Willson Goggles, Inc., Reading, Pa. "Colored Goggles Sun-Dust Wind-Glare." (For Advertising Purposes for Goggles.) No. 6,489; Dec. 26.
- Willson Goggles Inc., Reading, Pa. "Are Your Eyes Worth a Pair of Goggles?" (For Advertising Purposes for Goggles.) No. 6,490; Dec. 26.
- Willson Goggles Inc., Reading, Pa. "For Out of Door Comfort." (For Advertising Purposes for Goggles.) No. 6,491; Dec. 26.
- Winfield Electric Welding Machine Co., The, Warren, Ohio. "Winfield Method Flash Welding." (For Advertising Purposes for Electric Welding Machines and Methods.) No. 6,332; Oct. 10.
- Wright's Underwear Company, Inc., New York, N. Y. "Heat Can't Escape, Cold Can't Get In." (For Advertising Purposes for Men's and Boys' Underwear.) No. 6,454; Dec. 5.
- Wright's Underwear Company, Inc., New York, N. Y. "The Overheating Sprint and the Drafty Train Are Neutralized by this Underwear." (For Advertising Purposes for Men's and Boys' Underwear.) No. 6,455; Dec. 5.
- Wright's Underwear Company, Inc., New York, N. Y. "For men who work and play outdoors—." (For Advertising Purposes for Men's and Boys' Underwear.) No. 6,456; Dec. 5.
- Wrigley Pharmaceutical Co., Philadelphia, Pa. "It Costs you 1/10 of a Cent a Cleaning." (For Advertising Purposes for Tooth Paste.) No. 6,194; June 27.
- Wrigley Pharmaceutical Co., Philadelphia, Pa. "Spear-mint The New Tooth Paste for Children—and for Grown-ups too." (For Advertising Purposes for Tooth Paste.) No. 6,252; Aug. 1.
- Yellow Cab Manufacturing Co., Chicago, Ill. "Yellow Cab Manufacturing Co." (For Advertising Purposes for Taxicabs.) No. 6,129; May 16.
- Yellow Cab Manufacturing Co., Chicago, Ill. "This Is the Vehicle That Has Standardized the Taxicab Industry in America." (For Advertising Purposes for Taxicabs.) No. 6,130; May 16.
- Yellow Cab Manufacturing Co., Chicago, Ill. "Yellow Cabs take the Tax out of Taxicab." (For Advertising Purposes for Taxicabs.) No. 6,152; June 6.
- Yellow Cab Manufacturing Co., Chicago, Ill. "Yellow Cabs Stand the Gaff." (For Advertising Purposes for Taxicabs.) No. 6,153; June 6.

DISCLAIMERS.

Andrén, August, Brooklyn, N. Y.; disclaimer filed by assignee, Elevator Supplies Company, Inc. Signaling apparatus. No. 1,109,950; disclaimer filed June 21, 1922; v. 299; p. 872.

Anthony, Thomas P., Edgewater Park, N. J.; disclaimer filed by the patentee and assignee, United States Cast Iron Pipe & Foundry Co. Drying molds. No. 1,386,593; disclaimer filed Mar. 17, 1922; v. 296; p. 840.

Benbow, Charles A., Portland, Oreg.; disclaimer filed by assignee, Grand Rapids Show Case Co. Rope-computing machine. No. 936,078; disclaimer filed Apr. 27, 1922; v. 298; p. 416.

Carson, George Campbell, San Francisco, Calif.; disclaimer filed by patentee. Construction of roof of open-hearth and reverberatory furnaces. No. 1,302,307; disclaimer filed Mar. 29, 1922; v. 297; p. 400, and v. 302; p. 782.

Faries, Robert, Williamsport, Pa.; disclaimer filed by the assignee, A. Schrader's Son, Incorporated. Pressure indicator and regulator. No. 899,446; disclaimer filed July 14, 1922; v. 300; p. 621.

Giles, Louis E., New York, N. Y.; disclaimer filed by assignee, Underwood Computing Machine Company. Computing machine. No. 1,370,427; disclaimer filed Oct. 6, 1922; v. 303; p. 401.

Hammond, William P., New York, N. Y., and Theodore A. Hammond, Passaic, N. J.; disclaimer filed by assignee, A. Schrader's Son, Incorporated. Valve for pneumatic tires. No. 1,035,185; disclaimer filed July 14, 1922; v. 300; p. 621.

Hazen, Marshman W., New York, N. Y.; disclaimer filed by assignee, Corona Typewriter Co., Inc. Typewriting machine. No. 1,121,094; disclaimer filed Oct. 10, 1922; v. 303; p. 854.

Hazen, Marshman W., New York, N. Y.; disclaimer filed by assignee, Corona Typewriter Co., Inc. Ribbon mechanism. No. 1,121,097; disclaimer filed Oct. 10, 1922; v. 303; p. 854.

Kurowski, Alfred G. F., Brooklyn, N. Y.; disclaimer filed by assignee, Underwood Typewriter Company. Typewriting machine. No. 1,121,638; disclaimer filed Oct. 21, 1922; v. 304; p. 1.

Lawrence, Leo W., Winston-Salem, N. C.; disclaimer filed by assignee, Standard Tobacco Stemmer Company. Tobacco-stemming machine. No. 1,267,776; disclaimer filed Apr. 22, 1922; v. 298; p. 416.

Leeper, Edward W., Chicago, Ill.; disclaimer filed by assignee, Cook Electric Company. Thermo-electric circuit breaker. No. 997,838; disclaimer filed Jan. 13, 1922; v. 294; p. 635.

Lightfoot, Edwin N., New York, N. Y.; disclaimer filed by assignee, The Cutler-Hammer Mfg. Co. Electric heater. No. 1,359,400; disclaimer filed Apr. 25, 1922; v. 298; p. 416.

Mellinger, Edward A., Chicago, Ill.; disclaimer filed by assignee, Automatic Electric Company. Telephone-exchange automatic switching system. No. 1,343,462; disclaimer filed Apr. 5, 1922; v. 297; p. 401.

Morris, Hugh, Middletown, Ohio; disclaimer filed by the patentee. Pipe joint. No. 872,442; disclaimer filed Nov. 29, 1922; v. 305; p. 422.

Noble, Paul O., Schenectady, N. Y.; disclaimer filed by assignee, General Electric Company. Electric welding. No. 1,310,131; disclaimer filed Apr. 26, 1922; v. 298; p. 416.

Patrick, Walter A., Baltimore, Md.; disclaimer filed by assignee, The Silica Gel Corporation. Silica gel and process of making same. No. 1,297,724; disclaimer filed Oct. 12, 1922; v. 304; p. 1.

Petermann, Otto, Groton, N. Y.; disclaimer filed by assignee, Corona Typewriter Co., Inc. Typewriting machine. (Reissue.) No. 14,599; disclaimer filed Oct. 10, 1922; v. 303; p. 853.

Petermann, Otto, Groton, N. Y.; disclaimer filed by assignee, Corona Typewriter Co., Inc. Typewriting machine. No. 1,064,372; disclaimer filed Oct. 10, 1922; v. 303; p. 854.

Petermann, Otto, New York, N. Y.; disclaimer filed by assignee, Corona Typewriter Co., Inc. Feed mechanism for typewriting machines. No. 1,121,033; disclaimer filed Oct. 10, 1922; v. 303; p. 854.

Phillips, John M. and Robert F., Carrick, Pa.; disclaimer filed by assignee, The Phillips Mine & Mill Supply Company. Running gear for mine cars. No. 882,533; disclaimer filed May 15, 1922; v. 300; p. 412.

Phillips, Robert F., Carrick, Pa.; disclaimer filed by assignee, The Phillips Mine and Mill Supply Company. Self-oiling car wheel. No. 828,242; disclaimer filed May 15, 1922; v. 298; p. 871, and v. 301; p. 1.

Pitman, Henry L., Pineville, Ky.; disclaimer filed by assignee, Underwood Computing Machine Company. Combined typewriting and computing machine. No. 1,245,501; disclaimer filed Oct. 19, 1922; v. 304; p. 1.

Poole, Arthur F., Chicago, Ill.; disclaimer filed by patentee and assignee, Remington Accounting Machine Corporation. Calculating machine. No. 1,196,885; disclaimer filed Dec. 23, 1922; v. 294; p. 1.

Rose, Frank S., deceased, Newark, N. J., by Corona Typewriter Company, Inc., Groton, N. Y., assignee; disclaimer filed by assignee, Corona Typewriter Co., Inc. Escapement mechanism for typewriters. (Reissue.) No. 13,935; disclaimer filed Oct. 10, 1922; v. 303; p. 853.

Scherer, Albert G., Chicago, Ill.; disclaimer filed by assignee, Excelsior Steel Furnace Company; Hot-air pipe. No. 724,210; disclaimer filed Mar. 7, 1922; v. 296; p. 459.

Smith, Reuben S., and Edward W. Burgess, Milwaukee, Wis.; disclaimer filed by assignee, A. O. Smith Corporation. Machine for pickling metal plates and blanks. No. 1,428,716; disclaimer filed Sept. 25, 1922; v. 303; p. 1.

Stickney, Burnham C., Elizabeth, N. J.; disclaimer filed by assignee, Underwood Typewriter Company. Typewriting machine. No. 1,293,235; disclaimer filed Nov. 16, 1922; v. 304; p. 834.

Sulman, Henry L., Hugh F. Kirkpatrick-Picard, and John Ballot, London, England; disclaimer filed by assignee, Minerals Separation North American Corporation. Ore concentration. No. 835,120; disclaimer filed June 27, 1922; v. 300; p. 412.

Whittier, Frederick G., Ipswich, Mass.; disclaimer filed by assignee, The Lamson Company. Central-station apparatus for carrier-dispatch systems. No. 1,365,428; disclaimer filed Jan. 7, 1922; v. 294; p. 635.

ALPHABETICAL LIST OF INVENTIONS

- Abdominal appliance. H. Saur. No. 1,402,448; Jan. 3.
Abdominal protector. H. Goldsmith. No. 1,421,077; June 27.
Abrading device. C. S. Gustafson. No. 1,415,171; May 9.
Abrasive and polishing tools, Mandrel for. H. F. Stempel, Jr. No. 1,417,584; May 30.
Abrasive article. H. R. Power. No. 1,427,844; Sept. 5.
Abrasive coated sheet and making same. F. J. Tone. No. 1,414,447; May 2.
Abrasive elements, Staggered-tooth cutter for dressing. F. C. Brandenburg. No. 1,423,075; July 18.
Abrasive-material-feeding machine. F. L. Moore. No. 1,426,758; Aug. 22.
Abrasive structure and making same. J. McIntosh and J. R. Neill. No. 1,435,721; Nov. 14.
Absorption and cooling apparatus. A. B. Jones. No. 1,432,698; Oct. 17.
Abstract of title and making same. C. L. Snyder. No. 1,433,975; Oct. 31.
Accelerator. J. H. Michon. No. 1,404,785; Jan. 31.
Accelerator. R. B. Naylor. No. 1,418,824; June 6.
Accelerator. H. Smith. No. 1,434,319; Oct. 31.
Accelerator-control mechanism. R. C. Dickerson. No. 1,436,154; Nov. 21.
Accelerator, Foot. W. J. Hatheway. No. 1,436,167; Nov. 21.
Accelerator, Foot. T. H. Simpson. No. 1,439,194; Dec. 19.
Accelerator, Foot. H. V. Souders and J. M. Frost. No. 1,423,489; July 18.
Accelerator, Foot-operated. G. D. Lawson. No. 1,407,695; Feb. 28.
Accelerator in vulcanizing rubber compounds. B. E. Lorentz. No. 1,413,172; Apr. 18.
Accelerator pedal, Auxiliary. R. G. Moran. No. 1,431,410; Oct. 10.
Accelerators, Detachable pedal for. J. P. Gammon. No. 1,428,082; Sept. 5.
Accordions, Reed for. A. F. Carroll. No. 1,408,985; Mar. 7.
Account card for insurance companies. H. H. Williams. No. 1,435,436; Nov. 14.
Accounting and money-handling machine. A. H. Hawley. No. 1,409,172; Mar. 14.
Accounting, Installment-payment. A. J. Lundstrom. No. 1,413,041; Apr. 18.
Accounting machine, Automatic tabulator. W. W. Lasker. No. 1,438,924; Dec. 12.
Accounting machines, Attachment for. S. H. McCracken. (Reissue). No. 15,319; Mar. 28.
Accounting systems, Means employed in. W. G. Scott. No. 1,405,559; Feb. 7.
Account-keeping device. C. L. Horn, Jr. No. 1,408,508; Mar. 7.
Account register, Credit. H. A. Martin. No. 1,423,953; July 25.
Account registers, Leaf-hinge device for. A. S. Weldy. No. 1,415,212; May 9.
Account sheet. W. P. Jenkins and W. D. Woolley. No. 1,428,592; Sept. 12.
Accounts, Handling. C. F. Balch. No. 1,416,437; May 16.
Accounts, System of keeping. A. de Meurisse. No. 1,402,578; Jan. 3.
Acenaphthene, Catalytic oxidation of. G. C. Bailey and A. E. Craver. No. 1,439,500; Dec. 19.
Acetaldehyde from acetylene, Production of. L. E. M. Trevox. No. 1,428,668; Sept. 12.
Acetaldehyde from acetylene, Production of. L. E. M. Trevox. No. 1,436,550; Nov. 21.
Acetaldehyde, Manufacturing. H. W. Matheson. (Reissue). No. 15,434; Aug. 22.
Acetic anhydride, Making. C. J. Strosacker. No. 1,403,920; Jan. 17.
Acetic anhydride, Manufacture of. H. Dreyfus. No. 1,430,304; Sept. 26.
Acetic anhydride, Manufacture of. H. W. Matheson and G. E. Grattan. No. 1,425,500; Aug. 8.
Acetyl isoborneol, Making. R. L. Andreau. No. 1,420,399; June 20.
Acetyl-methyl amines, Manufacturing certain. H. T. Clarke. No. 1,434,429; Nov. 7.
Acetyl monomethyl aryl amines, Manufacturing. H. T. Clarke and W. W. Hartman. No. 1,411,683; Apr. 4.
Acetylene, Chlorination of. K. Roka. No. 1,418,882; June 6.
Acetylene-gas generator. J. K. Halkins. No. 1,405,031; Jan. 31.
Acetylene-gas-lighting plant. D. Carmichael. No. 1,422,030; July 4.
Acetylene generator. O. N. Gredell. No. 1,411,084; Mar. 28.
Acetylene generator. F. W. Mazsick. No. 1,407,943; Feb. 28.
Acetylene generator. R. F. Russell. Nos. 1,410,603-4; Mar. 28.
Acetylene generator. G. H. Zouck and R. F. Russell. No. 1,431,077; Oct. 3.
Acetylene generator, Portable. O. R. Gunn. No. 1,433,003; Oct. 24.
Acetylene lighting apparatus. L. Violet-Chabrand. No. 1,411,141; Mar. 28.
Acetylene, Manufacture of products from. B. C. Stuer and W. Grob. No. 1,421,743; July 4.
Acetylene, Manufacturing cylinders for dissolved. O. H. Skinner and H. S. Smith. No. 1,407,588; Feb. 21.
Acetylene tank. F. J. Metzger. No. 1,419,746; June 13.
Acid and carbon monoxide, Manufacturing hydrochloric. H. W. Paulus. No. 1,402,209; June 20.
Acid and heat from waste gases coming from boilers for cellulose, Recuperation of the sulphurous. H. Clemm and C. Hangleiter. No. 1,429,128; Sept. 12.
Acid and making same, Dialkylamides of nicotinic. M. Hartmann and M. Seiberth. No. 1,403,117; Jan. 10.
Acid, Benzyl ester of acetylsalicylic. A. S. Burdick and E. B. Vliet. No. 1,436,304; Nov. 21.
Acid by oxidation of acetic aldehyde, Making acetic. A. Guyot. No. 1,409,098; Mar. 7.
Acid, Cleaning sulphonic. A. Wolff. No. 1,428,197; Sept. 5.
Acid, Derivatives of camphoric. E. S. Faust. No. 1,406,547; Feb. 14.
Acid, Distilling sulphuric. G. Baum. No. 1,419,008; June 6.
Acid ester and preparing same, Tropinone-monocarboxylic. O. Wolfes and H. Maeder. No. 1,420,900; June 27.
Acid esters and preparation of same, Tropinone monocarboxylic. R. Willstätter, O. Wolfes, and H. Maeder. No. 1,419,091; June 6.
Acid esters, Preparation of tropinone monocarboxylic. O. Wolfes and H. Maeder. No. 1,419,092; June 6.
Acid, Fixing synthetical nitric. M. Buchner. No. 1,427,441; Aug. 29.
Acid from dinitrophenol in crystal form and the elimination therefrom of the sulphate of lead, Manufacture of picric. L. B. Holliday and L. G. Badier. No. 1,413,914; Apr. 25.
Acid, Making hydrochloric. C. P. Townsend. No. 1,414,762; May 2.
Acid, Making primary arsanilic. P. A. Kober. No. 1,405,228; Jan. 31.
Acid, Manufacture of acetic. H. W. Matheson. No. 1,410,207; Mar. 21.
Acid, Manufacture of arsenic. C. Ellis and V. T. Stewart. No. 1,415,323; May 9.
Acid, Manufacture of butyric. F. A. McDermott and R. Glasgow. No. 1,405,055; Jan. 31.
Acid, Manufacture of 9,10-dihalogenanthracene- β -monosulphonic. K. Schirmacher. No. 1,422,889; July 18.
Acid, Manufacture of nitric. P. A. Guye. No. 1,407,530; Feb. 21.
Acid, Manufacture of sulphuric. C. H. MacDowell and H. H. Meyers. No. 1,420,202; June 20.
Acid manufacture, Sulphuric. G. F. Hurt. No. 1,415,353; May 9.
Acid, Method of and apparatus for concentrating. I. Hechenbleikner and T. C. Oliver. No. 1,415,443; May 9.
Acid, Obtaining calcium salt of acetyl salicylic. J. Altwegg. No. 1,431,863; Oct. 10.
Acid or alkaline reductions, Carrying out. W. O. Mitscherling. No. 1,432,775; Oct. 24.
Acid phosphate or superphosphate, Apparatus for manufacturing. T. J. Sturtevant. No. 1,403,820; Jan. 17.
Acid phosphate or superphosphate, Apparatus for manufacturing. T. J. Sturtevant. Nos. 1,428,920-2; Sept. 12.
Acid phosphate, Treating. E. H. Armstrong. No. 1,439,054; Dec. 19.
Acid purification, Apparatus for nitric. G. H. Tozier. No. 1,429,177; Sept. 12.
Acid, Purification of hydrofluoric. H. Howard. No. 1,439,960; Dec. 26.
Acid, Production of neutral alkyl esters of sulphuric. E. Kuh. No. 1,411,215; Mar. 28.
Acid, Production of sulphuric. C. H. MacDowell. No. 1,402,941; Jan. 10.
Acid regeneration, Chromic. R. H. McKee. No. 1,408,618; Mar. 7.
Acid regenerator. J. I. Thompson. No. 1,402,194; Jan. 3.
Acid, Transportation of hydrocyanic. F. J. Metzger. No. 1,408,757; Mar. 7.
Acid, Treatment of waste sulphuric. S. Hilpert. No. 1,427,886; Aug. 29.
Acids and product, Purifying sludge sulphonic. R. E. Divine. No. 1,438,101; Dec. 5.
Acids, Complex silver salts of α -amino. M. Guggenheim. No. 1,417,167; May 23.
Acids from distillery waste, Recovering volatile organic. L. M. Burghart. No. 1,426,457; Aug. 22.

- Acids from glycerides, Removing. W. Gleitz. No. 1,408,804; Mar. 7.
- Acids, Manufacture of. W. O. Snelling. No. 1,430,035; Sept. 26.
- Acids, Obtaining tar. W. Runge. No. 1,409,588; Mar. 14.
- Acids, Preparing sodium salts of anthraquinone alpha disulphonic. C. Vernet and G. Rauch. No. 1,437,571; Dec. 5.
- Acids, Producing chemical compounds from acetylene and hydrohalogenic. W. Bauer. No. 1,414,852; May 2.
- Acids, Producing organic. A. F. Odell. No. 1,425,605; Aug. 15.
- Acids, Production of dicarboxylic. A. G. Williams. No. 1,423,980; July 25.
- Acids, Production of light-colored fatty. J. W. Bodman. No. 1,439,685; Dec. 26.
- Acids, Treating. I. Hechenbleikner and T. C. Oliver. No. 1,421,688; July 4.
- Acids, Treating sludge. I. Hechenbleikner and T. C. Oliver. Nos. 1,423,766-7; July 25.
- Acids, Treating sludge. I. Hechenbleikner and T. C. Oliver. No. 1,429,140; Sept. 12.
- Acids with several double linkages or of their glycerides into oleic acidlike fatty acids or their soaps, Conversion of fatty. C. Stiepel. No. 1,429,114; Sept. 12.
- Acoustical facing material for interiors. R. Guastavino. No. 1,440,073; Dec. 26.
- Acoustic apparatus, Diaphragm for. M. Hepner. No. 1,435,843; Nov. 14.
- Acoustic device. G. B. Burch. No. 1,414,801; May 2.
- Acoustic device. C. R. Moore. No. 1,426,757; Aug. 22.
- Acoustic instrument. C. Kahn. No. 1,429,592; Sept. 19.
- Acridine series and making same, Compound of. L. Benda. No. 1,427,431; Aug. 29.
- Acridinium compounds and making same. L. Benda. No. 1,427,432; Aug. 29.
- Acrolein and the resulting product, Stabilization of. C. Moureu. No. 1,436,047; Nov. 21.
- Activated pancreatin and stabilization of same, Manufacture of. D. E. Neun. No. 1,404,137; Jan. 17.
- Actuating and locking mechanism. F. J. Todd. No. 1,414,000; Apr. 25.
- Actuator, Resilient. E. B. Hine. No. 1,413,272; Apr. 18.
- Adapter. F. T. Baird. No. 1,422,331; July 11.
- Adapter for clamping work while turning, Air-operated. W. L. Dixon. No. 1,412,170; Apr. 11.
- Adding and recording machine. W. S. Gubelmann. Nos. 1,429,201-2; Sept. 12.
- Adding and subtracting device. A. Wolpert. No. 1,406,712; Feb. 14.
- Adding, calculating, and recording machine. H. Landsiedel. No. 1,430,088; Sept. 26.
- Adding machine. O. H. Halstead. No. 1,437,238; Nov. 28.
- Adding machine. A. A. Horton. No. 1,415,174; May 9.
- Adding machine. R. D. King. No. 1,404,443; Jan. 24.
- Adding machine. H. Landsiedel. Nos. 1,416,363-4; May 16.
- Adding machine. H. Landsiedel. No. 1,428,787; Sept. 12.
- Adding machines and the like, Device for operating. T. S. Bindschedler. No. 1,436,639; Nov. 28.
- Adding machines, Attachment for. C. A. Tindall and J. R. Showers. No. 1,436,218; Nov. 21.
- Adding machines, Date-printing mechanism for writing. H. A. Foothorap. No. 1,433,194; Oct. 24.
- Adding machines, Duplicating device for. W. H. Fenn and O. E. Groshell. No. 1,432,169; Oct. 17.
- Adding machines, Envelope-printing attachment for. J. A. Petterson. No. 1,409,769; Mar. 14.
- Addressing and listing device, Combined. M. Hartman. No. 1,425,768; Aug. 15.
- Addressing machine. M. F. Cheshire. No. 1,420,814; June 27.
- Addressing machine. H. Deutsch. No. 1,436,981; Nov. 28.
- Addressing machine. L. H. Hangel. No. 1,411,210; Mar. 28.
- Addressing machine. W. J. Maguire. No. 1,403,336; Jan. 10.
- Addressing-machine attachment. M. F. Cheshire. No. 1,436,013; Nov. 21.
- Addressing machine, Automatic. L. H. Hangel. No. 1,411,350; Apr. 4.
- Addressing-machine impression mechanism. C. Chisholm. No. 1,423,189; July 18.
- Addressing machine, Mechanism for positioning the conveyor of an. C. Chisholm. No. 1,438,579; Dec. 12.
- Addressing machines, Inking device or attachment more particularly for use with. L. M. Barman. No. 1,411,398; Apr. 4.
- Addressing machines, Plate-restacking mechanism for. C. Chisholm. No. 1,424,153; Aug. 1.
- Addressing mechanism (strip). P. E. Cox. No. 1,431,456; Oct. 10.
- Address-plate holder. C. Chisholm. No. 1,438,578; Dec. 12.
- Adhesive and coating composition. R. Scherer. No. 1,409,472; Mar. 14.
- Adhesive-applying mechanism. H. W. White. No. 1,407,612; Feb. 21.
- Adhesive composition and producing the same. H. I. Campbell. No. 1,435,377; Nov. 14.
- Adhesives alternately to both faces of sheets of paper, Apparatus for applying. W. E. Molins. No. 1,419,466; June 13.
- Adhesives, Machine for coating webs with. A. M. Becker. No. 1,435,197; Nov. 14.
- Adhesives, Producing vegetable. E. Stern. No. 1,412,020; Apr. 4.
- Adjustable and collapsible table. J. B. Mazoch. No. 1,437,670; Dec. 5.
- Adjustable brace. A. Bengtson. No. 1,426,247; Aug. 15.
- Adjustable bolder. A. H. Carlson. (Reissue.) No. 1,5431; Aug. 15.
- Adjustable jack. O. C. Dennis. No. 1,428,535; Sept. 12.
- Adjustable lock. W. F. Diesel and E. R. Weber. No. 1,431,381; Oct. 10.
- Adjustable mold. E. J. Kukac. No. 1,431,164; Oct. 10.
- Adjustable screen. L. Caretto. No. 1,418,284; June 6.
- Adjustable seat. S. Handler. No. 1,434,777; Nov. 7.
- Adjustable wrench. W. A. Martin. No. 1,423,723; July 25.
- Adjustable wrench. J. F. Oliver. No. 1,436,049; Nov. 21.
- Adjuster. H. E. Brown. No. 1,424,799; Aug. 8.
- Advertisement distributor. A. Coley and A. W. Marler. No. 1,417,500; May 30.
- Advertisements, Apparatus for displaying light. B. A. Nielsen. No. 1,407,564; Feb. 21.
- Advertising and display case. H. R. McCleary. No. 1,416,566; May 16.
- Advertising and display device. T. Mathews. No. 1,421,277; June 27.
- Advertising and displaying fixture, Combined. B. Alexander. No. 1,435,785; Nov. 14.
- Advertising blotter, Reply-card. J. J. Harris. No. 1,434,009; Oct. 31.
- Advertising device. J. A. C. Bergeron. No. 1,429,274; Sept. 19.
- Advertising device. R. A. Bingaman. No. 1,422,529; July 11.
- Advertising device. G. E. Bowen. No. 1,409,141; Mar. 7.
- Advertising device. J. A. Camp. No. 1,409,077; Mar. 7.
- Advertising device. J. L. Celane and D. Steinberg. No. 1,434,873; Nov. 7.
- Advertising device. B. J. Cohon. No. 1,414,113; Apr. 25.
- Advertising device. R. M. Finger and D. W. Liles. No. 1,425,758; Aug. 15.
- Advertising device. C. Fleck. No. 1,428,022; Sept. 5.
- Advertising device. A. F. Forman. No. 1,433,360; Oct. 24.
- Advertising device. L. A. Gould. No. 1,414,272; Apr. 25.
- Advertising device. G. H. Harris. No. 1,435,003; Nov. 7.
- Advertising device. I. Heidenreich. No. 1,411,022; Mar. 28.
- Advertising device. C. S. Henshaw. No. 1,414,017; Apr. 25.
- Advertising device. A. H. Jackson. No. 1,435,474; Nov. 14.
- Advertising device. H. F. Jackson. No. 1,438,440; Dec. 12.
- Advertising device. L. G. Jordan. No. 1,402,617; Jan. 3.
- Advertising device. H. K. MacDougall. No. 1,405,304; Jan. 31.
- Advertising device. V. P. McKinnie. No. 1,415,596; May 9.
- Advertising device. A. O. Mickelson. No. 1,418,157; May 30.
- Advertising device. V. S. Morley. Nos. 1,430,314-15; Sept. 26.
- Advertising device. F. J. Stevens. No. 1,433,753; Oct. 31.
- Advertising device. F. A. Sylvester. No. 1,424,323; Aug. 1.
- Advertising device. L. F. Webster and R. J. Christianson. No. 1,414,536; May 2.
- Advertising device, Automatic. W. H. Kuhne. No. 1,421,961; July 4.
- Advertising device, Illuminated. F. D. Cummings. No. 1,427,678; Aug. 29.
- Advertising device, Rotary. L. H. Cammack and H. A. Brown. No. 1,424,449; Aug. 1.
- Advertising, displaying, and demonstrating goods put up in cans, cartons, or otherwise, Device for. R. J. Sawyer. No. 1,438,335; Dec. 12.
- Advertising machine. J. W. Duval. No. 1,420,627; June 27.
- Advertising machine. R. E. Hinchey. No. 1,429,205; Sept. 12.
- Advertising novelty. J. J. Donovan. No. 1,425,513; Aug. 15.
- Advertising novelty. B. K. Hauck. No. 1,419,136; June 13.
- Advertising novelty and toy. E. M. Hansley. No. 1,417,061; May 23.
- Advertising post. T. C. Spelling. No. 1,402,105; Jan. 3.
- Advertising wheel. O. W. Jones. No. 1,422,577; July 11.
- Adz. F. A. Holmes. No. 1,428,287; Sept. 5.
- Aerating and mixing device. H. S. Beers. No. 1,417,883; May 30.
- Aerating liquescent material and apparatus in aid thereof. J. C. Hughes. No. 1,411,103; Mar. 28.
- Aerial bomb. T. J. Cahill. No. 1,417,299; May 23.
- Aerial conduit, an aerial conduit, and aerial cable ring, Forming an. H. W. Pleister. No. 1,438,329; Dec. 12.
- Aerial craft. J. C. Savage. No. 1,426,413; Aug. 22.
- Aerial logging system. R. H. White. No. 1,411,144; Mar. 28.
- Aerial objects, Device for aiming at. A. C. A. M. Bochet. No. 1,432,659; Oct. 17.
- Aerial railways, System of. J. D. Roots. No. 1,438,862; Dec. 12.

Alphabetical list of inventions—Continued.

- Aerial rescue device. H. E. Hodgson. No. 1,435,923; Nov. 21.
- Aerial ropeways, Carrier having gripping device for use with. J. P. Roe. No. 1,436,911; Nov. 28.
- Aerial signal light. H. L. M. J. Benard. No. 1,413,379; Apr. 18.
- Aerial torpedo. L. B. Sperry. No. 1,418,605; June 6.
- Aerial torpedo or drop bomb. J. H. Swan. No. 1,418,606; June 6.
- Aerial tramway. F. C. Carstarphen. No. 1,422,255; July 11.
- Aerial tramway grip. E. H. Sackett. No. 1,417,572; May 30.
- Aerial tramways, Derailing device for. T. S. Sanner. No. 1,409,117; Mar. 7.
- Aerial vehicle, Cooling device for. P. Jaray. No. 1,414,418; May 2.
- Aerial vehicles and marine vessels, Means for electrically propelling and communicating with. C. W. Waller. No. 1,421,326; June 27.
- Aerial vehicles, Automatically-releasing anchoring device for. M. C. St. John. No. 1,427,500; Aug. 29.
- Aerial vessel, Radiator arrangement for. K. F. Kappes. No. 1,432,865; Oct. 24.
- Aerial vessels, Lifting mechanism for. O. N. Lanning. No. 1,439,425; Dec. 19.
- Aerial yarder, Duplex two-speed. G. Frink. No. 1,404,358; Jan. 24.
- Aerofoil. F. E. Loudy. No. 1,419,277; June 13.
- Aerofoil. H. Schuesner. No. 1,430,759; Oct. 3.
- Aerofoil. P. Schwamb and F. Eberhardt. No. 1,428,714; Sept. 12.
- Aero heater, Manifold. A. G. Bridgford and S. B. Bolton. No. 1,427,057; Aug. 22.
- Aero lighthouse. J. F. Hutchinson. No. 1,404,962; Jan. 31.
- Aeronautical balance indicator. W. J. Fisher. No. 1,411,883; Apr. 4.
- Aeronautical propeller. P. Thomson and M. J. Whelan. No. 1,419,180; June 13.
- Aeronaut's safety attachment. W. Haniuk. No. 1,417,991; May 30.
- Aeroplane. G. L. Banks. No. 1,424,130; July 25.
- Aeroplane. C. S. Barrett. No. 1,402,205; Jan. 3.
- Aeroplane. L. Bazaine. No. 1,436,934; Nov. 28.
- Aeroplane. A. J. Bernier. No. 1,417,884; May 30.
- Aeroplane. O. W. Boyea. No. 1,435,204; Nov. 14.
- Aeroplane. H. L. Boyle. No. 1,418,522; June 6.
- Aeroplane. I. Carlson. No. 1,405,667; Feb. 7.
- Aeroplane. W. L. Denham. No. 1,419,962; June 20.
- Aeroplane. E. H. Earle. No. 1,419,363; June 13.
- Aeroplane. V. Entler. No. 1,432,283; Oct. 17.
- Aeroplane. F. Gill. No. 1,429,730; Sept. 19.
- Aeroplane. O. W. Greene. No. 1,422,197; July 11.
- Aeroplane. C. W. Hall. No. 1,431,520; Oct. 10.
- Aeroplane. G. Hansen and E. Schmit. No. 1,429,284; Sept. 19.
- Aeroplane. J. Hayes. Nos. 1,423,610-11; July 25.
- Aeroplane. J. Hayes. No. 1,440,293; Dec. 26.
- Aeroplane. A. S. Heinrich. No. 1,438,957; Dec. 19.
- Aeroplane. G. A. Henderson. No. 1,405,917; Feb. 7.
- Aeroplane. E. C. and R. M. Huffaker. Nos. 1,435,848-9; Nov. 14.
- Aeroplane. R. Jary. No. 1,412,286; Apr. 11.
- Aeroplane. S. M. Logan. No. 1,413,670; Apr. 25.
- Aeroplane. C. Loski. No. 1,418,943; June 6.
- Aeroplane. C. J. H. Mackenzie-Kennedy. No. 1,411,115; Mar. 28.
- Aeroplane. D. N. MacRae. No. 1,409,305; Mar. 14.
- Aeroplane. A. L. McCaffrey and J. G. Manning. No. 1,413,749; Apr. 25.
- Aeroplane. W. A. McCracken. No. 1,436,182; Nov. 21.
- Aeroplane. C. D. McNamara. No. 1,423,131; July 18.
- Aeroplane. A. E. Molin. No. 1,435,325; Nov. 14.
- Aeroplane. S. D. Mott. No. 1,407,293; Feb. 21.
- Aeroplane. C. Peters. No. 1,421,550; July 4.
- Aeroplane. I. B. Sanders. No. 1,409,241; Mar. 14.
- Aeroplane. J. and E. Sharp. (Reissued.) No. 15,291; Feb. 21.
- Aeroplane. G. D. Simonds. No. 1,403,715; Jan. 17.
- Aeroplane. N. G. Star. No. 1,414,314; Apr. 25.
- Aeroplane. W. Stevens. No. 1,413,553; Apr. 18.
- Aeroplane. A. A. Wells. No. 1,414,241; Apr. 25.
- Aeroplane. W. W. Wert. No. 1,418,502; June 6.
- Aeroplane. E. Wilder. No. 1,424,055; July 25.
- Aeroplane. S. A. Williamson. No. 1,407,505; Feb. 21.
- Aeroplane alighting device. J. V. Martin. No. 1,431,017; Oct. 3.
- Aeroplane and flying machine with flapping wings. A. Frey. No. 1,431,646; Oct. 10.
- Aeroplane and helicopter. J. T. Fulcher. No. 1,418,248; May 30.
- Aeroplane, Armed. J. L. Cato. No. 1,434,367; Nov. 7.
- Aeroplane attachment. C. M. Bazzeghin. No. 1,405,658; Feb. 7.
- Aeroplane attachment. P. S. Woods. No. 1,415,754; May 9.
- Aeroplane braking device. J. B. Anderson. No. 1,420,509; June 20.
- Aeroplane, Captive. R. Garvey and T. J. Miner. No. 1,421,683; July 4.
- Aeroplane construction. O. T. Belcher. No. 1,438,686; Dec. 12.
- Aeroplane construction. W. P. Gary. No. 1,421,934; July 4.
- Aeroplane construction. R. Verdizio. No. 1,430,128; Sept. 26.
- Aeroplane control. A. A. Holle. No. 1,438,242; Dec. 12.
- Aeroplane control. J. T. Hughes. No. 1,415,176; May 9.
- Aeroplane control. C. A. Snow, Jr. No. 1,419,419; June 13.
- Aeroplane control. P. Warminski. No. 1,422,503; July 11.
- Aeroplane controllers, Disabler for. G. L. Bumbaugh. No. 1,412,771; Apr. 11.
- Aeroplane element and process of making same and product of said process. G. Blenio. No. 1,427,941; Sept. 5.
- Aeroplane engines, Starting device for. R. T. Foster. No. 1,417,508; May 30.
- Aeroplane fuselage and building same. E. G. Bahl. No. 1,424,066; July 25.
- Aeroplane landing gear. C. F. Willard. No. 1,418,762; June 6.
- Aeroplane, Manually-propelled. B. Tomkay. No. 1,412,907; Apr. 18.
- Aeroplane motor fuel. W. T. Schreiber. No. 1,428,913; Sept. 12.
- Aeroplane, Multipropelled. J. Ardo. No. 1,417,017; May 23.
- Aeroplane propeller. D. G. Harkins. Nos. 1,407,271-2; Feb. 21.
- Aeroplane propeller. W. Lindsay. No. 1,421,699; July 4.
- Aeroplane propeller. A. Martel, Jr. No. 1,419,877; June 13.
- Aeroplane propeller. W. D. Parker. No. 1,404,403; Jan. 24.
- Aeroplane propeller. O. A. Ross. No. 1,402,539; Jan. 3.
- Aeroplane propellers, Sheathing for. T. F. Hamilton. No. 1,404,849; Jan. 31.
- Aeroplane radiator. P. L. Parsons. No. 1,440,315; Dec. 26.
- Aeroplane safety device. S. Arrington. No. 1,408,062; Feb. 28.
- Aeroplane stay. H. J. Horn. No. 1,403,553; Jan. 17.
- Aeroplane stay. H. J. Horn. No. 1,403,602; Jan. 17.
- Aeroplane swings, Collapsible passenger-carrying car for. H. G. Traver. No. 1,436,371; Nov. 21.
- Aeroplane, Two-seater monoplane. R. Saulnier. No. 1,433,657; Oct. 31.
- Aeroplane wing, Adjustable. C. F. Rocheville. No. 1,439,127; Dec. 19.
- Aeroplane-wing construction. E. V. Crowell and W. Hawkins. No. 1,412,455; Apr. 11.
- Aeroplane wing structure. W. L. Gilmore and T. P. Wright. No. 1,437,469; Dec. 5.
- Aeroplane with inherent stability. A. G. Leigh. No. 1,404,129; Jan. 17.
- Aeroplanes, Attachment for. A. F. Erickson. No. 1,423,789; July 25.
- Aeroplanes, Automatic pilot for. L. B. Sperry. No. 1,415,003; May 2.
- Aeroplanes, Automatic pilot for. E. A. Sperry. No. 1,418,335; June 6.
- Aeroplanes, Brake for. T. Starrett, Jr. No. 1,402,321; Jan. 3.
- Aeroplanes, Device for training pilots and observers in handling. G. Horn. No. 1,402,498; Jan. 3.
- Aeroplanes, Elevated landing place for. C. W. Schleier. No. 1,433,419; Oct. 24.
- Aeroplanes, Fabricated covering for. O. T. Belcher. No. 1,426,626; Aug. 22.
- Aeroplanes, Fuselage construction for. J. L. Cato. No. 1,428,143; Sept. 5.
- Aeroplanes, Internal-brace construction for. O. T. Belcher. No. 1,438,685; Dec. 12.
- Aeroplanes, Launching and landing of. J. B. Harriss. No. 1,428,163; Sept. 5.
- Aeroplanes, Launching mechanism for. E. A. Sperry. No. 1,415,847; May 9.
- Aeroplanes, Means for detecting tilt in. W. A. McDougall. No. 1,412,362; Apr. 11.
- Aeroplanes, Means for stabilizing. S. De Santis. No. 1,425,455; Aug. 8.
- Aeroplanes, Parachute for. T. Diakoniuk. No. 1,428,013; Sept. 5.
- Aeroplanes, Pilot compartment for. I. Hatano. No. 1,407,414; Feb. 21.
- Aeroplanes, Propeller for. M. C. Reyes. No. 1,432,787; Oct. 24.
- Aeroplanes, Safety device for. J. W. Birosh. No. 1,428,135; Sept. 5.
- Aeroplanes, Safety device for. W. R. Marshall. No. 1,433,395; Oct. 24.
- Aeroplanes, Speed indicator for. A. F. Poole. No. 1,422,224; July 11.
- Aeroplanes, Speed meter for. A. F. Zahm. No. 1,426,698; Aug. 22.
- Aeroplanes, Steering wheel for. W. C. Hurst. No. 1,424,143; July 25.
- Aeroplanes, Turbosupercharger for. S. A. Moss. No. 1,413,418; Apr. 18.
- Aeroplanes while in flight, Apparatus for receiving mail from and delivering it to. W. R. Coppage. No. 1,440,279; Dec. 26.
- Aeroplanes, Wing-spar construction for. O. T. Belcher. No. 1,417,657; May 30.
- Agglutinate elements, Process of and apparatus for the mollification and disintegration of. T. M. Slough. No. 1,428,991; Sept. 12.

- Aging machine. G. Turner and E. A. Fourneau. No. 1,403,990; Jan. 17.
- Agitating and heating mobile material, Apparatus for. L. W. Bates. No. 1,406,818; Feb. 14.
- Agitating mechanism. M. Donauer. No. 1,406,355; Feb. 14.
- Agitating mechanism, Power-driven. J. B. McFerran, Jr. No. 1,402,270; June 20.
- Agitating mechanisms, Controller for. M. Donauer. No. 1,404,745; Jan. 31.
- Agitator. M. M. Fredel and W. Bosanko. No. 1,415,830; May 9.
- Agitator. G. More. No. 1,412,255; Apr. 11.
- Agitator drier. P. J. Hamler. No. 1,434,613; Nov. 7.
- Agitator handle. C. E. Farrington. No. 1,429,071; Sept. 12.
- Agricultural implement. C. J. Allen and J. Mader. No. 1,418,049; May 30.
- Agricultural implement. A. H. Anderson. No. 1,401,949; Jan. 3.
- Agricultural implement. W. E. Aton. No. 1,419,602; June 13.
- Agricultural implement. A. Axelton. No. 1,418,123; May 30.
- Agricultural implement. J. W. Carter. No. 1,414,931; May 2.
- Agricultural implement. W. D. Dewend. No. 1,418,780; June 6.
- Agricultural implement. L. A. Greene. No. 1,403,547; Jan. 17.
- Agricultural implement. E. W. Johnson. No. 1,412,615; Apr. 11.
- Agricultural implement. R. Kanja. No. 1,413,853; Apr. 25.
- Agricultural implement. T. Kubo. No. 1,405,044; Jan. 31.
- Agricultural implement. C. H. Pelton. No. 1,410,113; Mar. 21.
- Agricultural implement. C. H. Pelton. No. 1,415,111; May 9.
- Agricultural implement. W. C. Warren and G. L. Kier. No. 1,429,054; Sept. 12.
- Agricultural implement for cultivating, mowing, and grinding, Self-propelled. K. von Meyenburg. No. 1,428,194; Sept. 5.
- Agricultural implement, Power-lift. J. W. Dowler. No. 1,412,781; Apr. 11.
- Agricultural implements, Disk-adjusting mechanism for. D. A. Schutt. No. 1,417,207; May 23.
- Agricultural implements, Gang frame for. G. F. Sproull. No. 1,414,228; Apr. 25.
- Agricultural implements, Mower attachment for. C. Conlon. No. 1,411,001; Mar. 28.
- Agricultural machine. A. T. Brown. No. 1,416,259; May 16.
- Agricultural machine. W. H. Kemper. No. 1,417,999; May 30.
- Agricultural machine. F. J. Mann. No. 1,403,801; Jan. 17.
- Agricultural machine. O. A. Moore. No. 1,404,882; Jan. 31.
- Agricultural machine. A. Wolff. No. 1,402,822; Jan. 10.
- Agricultural machinery, Wheel arrangement for. E. L. Varlo. No. 1,413,303; Apr. 18.
- Agricultural machines, Disk scraper for. J. Kammeyer. No. 1,410,813; Mar. 28.
- Agricultural purposes, Marker for. G. O. Setty. No. 1,402,450; Jan. 3.
- Agricultural rake. F. Häcker. No. 1,419,255; June 13.
- Agricultural tool. G. L. Hembree. No. 1,417,901; May 30.
- Air-actuated machines, Automatic control for compressed. C. C. Cheney. No. 1,429,325; Sept. 19.
- Air accumulators, Control device for. F. Kempter. No. 1,436,987; Nov. 28.
- Air-agitating apparatus. J. and W. E. Watkins. No. 1,436,553; Nov. 21.
- Air and fuel, Method of and means for producing explosive mixtures of. O. H. Ensign. No. 1,408,277; Feb. 28.
- Air and gas mixing machine, Automatic. W. W. Kemp and W. H. Van Horn. No. 1,420,658; June 27.
- Air and other gases, Apparatus for cleaning. H. N. Edens. No. 1,428,950; Sept. 12.
- Air and vacuum brake system, Combined. G. Macloskie and C. A. Ives. No. 1,412,662; Apr. 11.
- Air and water dispensing apparatus. J. W. Merickel. No. 1,406,471; Feb. 14.
- Air, Apparatus for drying and medicating. C. Dodds and A. E. Painter. No. 1,409,364; Mar. 14.
- Air, Apparatus for purifying. L. J. San. No. 1,434,154; Oct. 31.
- Air bag. J. Merz. No. 1,414,090; Apr. 25.
- Air bag and constructing the same. R. S. Burdette. No. 1,412,799; Apr. 11.
- Air-bag renewer. J. R. Moyle. No. 1,409,397; Mar. 14.
- Air-blowing device. A. E. Seelig and V. H. Carples. No. 1,408,715; Mar. 7.
- Air brake. D. Berger. No. 1,427,715; Aug. 29.
- Air-brake and car-door-operating equipment, Combined. G. Macloskie. No. 1,408,111; Feb. 28.
- Air-brake apparatus. S. G. Neal. No. 1,411,368; Apr. 4.
- Air-brake apparatus. S. G. Neal. No. 1,418,961; June 6.
- Air-brake apparatus. S. G. Neal. No. 1,434,746; Nov. 7.
- Air-brake attachment. A. P. Sale. No. 1,415,405; May 9.
- Air brake, Compound. W. G. Canion. Nos. 1,430,357-9; Sept. 26.
- Air-brake control, Automatic. H. C. Quesenberry. No. 1,412,749; Apr. 11.
- Air-brake detail. M. H. Ryan. No. 1,418,400; June 6.
- Air-brake handle. W. E. Cady. No. 1,423,185; July 18.
- Air-brake-pressure retainer. A. Young. No. 1,421,651; July 4.
- Air brake recording apparatus. F. H. Hopkins. No. 1,404,770; Jan. 31.
- Air-brake-releasing mechanism, Automatic. D. C. Heslian. No. 1,415,173; May 9.
- Air-brake switch, High-voltage. R. Renke. No. 1,415,708; May 9.
- Air-break switch, Pendulum high-voltage. J. K. Ostrander. No. 1,414,892; May 2.
- Air-brake system. J. H. Hanlon. No. 1,426,061; Aug. 15.
- Air-brake system. W. H. Souther. No. 1,418,210; May 30.
- Air-brake systems, Automatic release valve for. C. W. Hurl. No. 1,406,020; Feb. 7.
- Air brakes, Tail valve apparatus for compressed. R. Dubois. No. 1,404,102; Jan. 17.
- Air-check device. F. E. Cheesman. No. 1,428,145; Sept. 5.
- Air circulator. J. A. Gits. No. 1,404,598; Jan. 24.
- Air circulator, Gravity. J. B. Lacy. No. 1,436,884; Nov. 28.
- Air clamps, Safety insertable auxiliary lever for. D. C. Klausmeyer. No. 1,425,388; Aug. 8.
- Air cleaner. F. A. Donaldson. No. 1,405,399; Feb. 7.
- Air cleaner. E. R. Evans. No. 1,430,066; Sept. 26.
- Air cleaner. H. H. Garner. No. 1,423,412; July 18.
- Air cleaner. J. P. Quam. No. 1,434,562; Nov. 7.
- Air cleaner. E. E. Wickersham. No. 1,407,968; Feb. 28.
- Air cleaner, Centrifugal. H. H. Garner. No. 1,404,952; Jan. 31.
- Air cleaner, Wet-filter. H. H. Garner. No. 1,426,177; Aug. 15.
- Air cleaning and moistening device. W. F. Cox. No. 1,436,483; Nov. 21.
- Air-cleaning device. J. P. Quam. No. 1,438,553; Dec. 12.
- Air-cleaning device. A. E. Schram. Nos. 1,409,592-3; Mar. 14.
- Air-cleansing device and ventilator. W. M. Reed. No. 1,416,381; May 16.
- Air-compressing apparatus. G. W. Johnston. No. 1,420,845; June 27.
- Air compressor. H. C. Aarup. No. 1,422,070; July 11.
- Air compressor. A. B. Jennings. No. 1,421,484; July 4.
- Air compressor. J. Kerr. No. 1,427,823; Sept. 5.
- Air compressor. M. Riesner. No. 1,417,571; May 30.
- Air compressor. J. Stanis. No. 1,426,325; Aug. 15.
- Air-compressor control. P. H. Gentzel. No. 1,410,911; Mar. 28.
- Air compressor, Garage. G. E. Hazard. No. 1,426,869; Aug. 22.
- Air-control register. W. R. Purnell. No. 1,436,823; Nov. 28.
- Air-cooled motor. L. C. Brock. No. 1,409,822; Mar. 14.
- Air-cooled transformer. J. Burke. No. 1,427,783; Sept. 5.
- Air cooler. R. N. Richardson. No. 1,428,661; Sept. 12.
- Air cooler. C. W. Stone. No. 1,424,689; Aug. 1.
- Air cooling and circulating device. G. L. Menk. No. 1,424,843; Aug. 8.
- Air-cooling apparatus. A. H. Chauceraux. No. 1,434,368; Nov. 7.
- Aircraft. L. Breguet. No. 1,429,484; Sept. 19.
- Aircraft. F. W. Gore. No. 1,422,261; July 11.
- Aircraft. D. B. Howard. No. 1,419,261; June 13.
- Aircraft. O. Langevin. No. 1,424,491; Aug. 1.
- Aircraft. G. F. Myers. No. 1,419,507; June 13.
- Aircraft. G. F. Myers. No. 1,427,314; Aug. 29.
- Aircraft. D. M. Ramsay. No. 1,431,683; Oct. 10.
- Aircraft, Aerofoil arrangement for. W. H. Barling. No. 1,405,890; Feb. 7.
- Aircraft and its management. H. E. Hawes. No. 1,435,136; Nov. 7.
- Aircraft, Apparatus for. F. E. Scholfield. No. 1,421,846; July 4.
- Aircraft, Ball bearing for the rudder surfaces of. H. von Fremery. No. 1,418,993; June 6.
- Aircraft, Ballast container for. K. Stahl. No. 1,418,491; June 6.
- Aircraft, Brake for. E. C. White. No. 1,413,086; Apr. 18.
- Aircraft by means of gyroscopic effects, Stabilizing. No. 1,431,244; Oct. 10.
- Aircraft, Command transmission in. K. Stahl. No. 1,433,688; Oct. 31.
- Aircraft construction, Material for use in. W. W. Christmas. No. 1,412,510; Apr. 11.
- Aircraft, Control for. N. W. Dalton. No. 1,406,617; Feb. 14.
- Aircraft engine. R. Oriol. No. 1,437,265; Nov. 28.
- Aircraft, Fall-checking device for. A. Zeitlin. No. 1,426,331; Aug. 15.
- Aircraft fuselage. A. Boerner. No. 1,402,736; Jan. 10.
- Aircraft guns, Wind compensator for. H. B. Inglis. No. 1,432,757; Oct. 24.
- Aircraft, Landing gear for. J. F. Meade. No. 1,406,575; Feb. 14.
- Aircraft, Landing light or flare for attaching to. H. E. S. Holt. No. 1,423,326; July 18.
- Aircraft, Means for balancing and regulating the lift of. F. H. Page. Nos. 1,422,614-16; July 11.

Alphabetical list of inventions—Continued.

- Aircraft, Metal spar for. H. N. Wylie. No. 1,407,242; Feb. 21.
- Aircraft, Motive-power system for. G. H. Curtiss. No. 1,418,131; May 30.
- Aircraft, Optical sighting device for. P. W. Gray. No. 1,402,064; Jan. 3.
- Aircraft, Plane for. J. F. Brice. No. 1,406,923; Feb. 14.
- Aircraft propeller. C. S. Hall. No. 1,420,313; June 20.
- Aircraft-propeller hub, Detachable. J. G. Vincent. No. 1,406,251; Feb. 14.
- Aircraft propellers with blades of variable incidence and cambering, System of. R. P. Pescara. No. 1,427,015; Aug. 22.
- Aircraft, Retractable landing gear for. H. C. Mummert. No. 1,435,139; Nov. 7.
- Aircraft, Speaking-tube apparatus for. B. F. Miessner. No. 1,418,368; June 6.
- Aircraft structure. J. V. Martin. No. 1,418,008; May 30.
- Aircraft, Torpedo supporting and launching mechanism for. J. H. Hammond, Jr. No. 1,403,159; Jan. 10.
- Aircraft wing. F. H. Page. No. 1,433,030; Oct. 24.
- Aircraft, Wing and similar member of. F. H. Page. No. 1,414,200; Apr. 25.
- Aircraft, Wing and similar member of. F. H. Page. No. 1,427,012; Aug. 22.
- Aircraft wings and aerofoils, Construction of. J. J. Mayrow. No. 1,421,280; June 27.
- Air-cushion construction. M. Petterson. No. 1,416,233; May 16.
- Air-cushion hub. B. V. Loutzkoy. No. 1,426,886; Aug. 22.
- Air, Dehumidifying. A. W. Lissauer and R. E. Keyes. No. 1,416,218; May 16.
- Air-dispensing apparatus. L. J. Monahan. No. 1,414,092; Apr. 25.
- Air-distance indicator. M. M. Titterington. No. 1,402,270; Jan. 3.
- Air draw-molding machine, Compressed-. G. F. Gustafson. No. 1,426,378; Aug. 22.
- Air-feeding device. J. Y. King. No. 1,405,520; Feb. 7.
- Air-feeding device. S. H. Sanborn. No. 1,434,228; Oct. 31.
- Air-filtering apparatus, Compressed-. P. H. Cazier and W. H. Hecker. No. 1,429,713; Sept. 19.
- Air gauge. D. T. Bentley. No. 1,405,706; Feb. 7.
- Air heater. M. Hachalachi. No. 1,421,939; July 4.
- Air heater. T. H. Monaghan. No. 1,425,674; Aug. 15.
- Air heater and ventilator. G. A. Tuck. No. 1,406,111; Feb. 7.
- Air heater, Electric. F. F. Forshee. No. 1,433,711; Oct. 31.
- Air humidifier. R. W. Hardie. No. 1,404,700; Jan. 24.
- Air-induction cleaning apparatus. R. P. Sweeny. No. 1,426,518; Aug. 22.
- Air-inlet device. V. H. Van Sant. No. 1,407,049; Feb. 21.
- Air-intake and breather pipe, Combined. C. P. Brockway. No. 1,413,961; Apr. 25.
- Air-intake and priming device. G. W. Lane. No. 1,434,294; Oct. 31.
- Air-intake device. G. W. Bender. No. 1,437,709; Dec. 5.
- Air lift. R. H. Tucker. No. 1,434,800; Nov. 7.
- Air-lift system. J. Oliphant. No. 1,427,317; Aug. 29.
- Air-line coupling. F. M. Thomas. No. 1,402,978; Jan. 10.
- Air lines and the like, Fitting for. L. W. Greve. No. 1,425,642; Aug. 15.
- Air liquefaction. H. N. Davis. No. 1,420,625; June 27.
- Air moistener. R. P. Link. No. 1,418,942; June 6.
- Air moistener. C. E. Sallada. No. 1,425,608; Aug. 15.
- Air moistener. E. Savery. No. 1,430,119; Sept. 26.
- Air moistener and dust arrester. M. A. Garrett. No. 1,426,286; Aug. 15.
- Air motor. L. Westin. No. 1,412,729; Apr. 11.
- Air-operated adapter. W. L. Dixon. No. 1,414,460; May 2.
- Air or other gaseous mixtures, Recovering constituents of. R. Wucherer and F. Pollitzer. No. 1,420,802; June 27.
- Airplane. M. F. Babcock. No. 1,427,086; Aug. 29.
- Airplane. H. Earl. No. 1,432,445; Oct. 17.
- Airplane. E. G. Gettins. No. 1,439,232; Dec. 19.
- Airplane. W. L. Gilmore. No. 1,430,640; Oct. 3.
- Airplane. K. Hunt. No. 1,405,035; Jan. 31.
- Airplane. C. Jensen. No. 1,411,630; Apr. 4.
- Airplane. C. B. Kirkham and A. L. Thurston. No. 1,434,547; Nov. 7.
- Airplane. G. B. Post. No. 1,423,681; July 25.
- Airplane. W. K. Rider. No. 1,415,052; May 9.
- Airplane. M. Saxon. No. 1,433,658; Oct. 31.
- Airplane. J. A. Weis and F. J. Knorr. No. 1,427,665; Aug. 29.
- Airplane and similar fabrics, Composition for treating. H. Ross. No. 1,440,178; Dec. 26.
- Airplane control. A. W. Shirl. No. 1,419,416; June 13.
- Airplane fire extinguisher. W. J. Sankey, Jr. No. 1,419,311; June 13.
- Airplane fitting. J. A. Christen. No. 1,437,465; Dec. 5.
- Airplane fuselage. M. W. Mix. No. 1,402,431; Jan. 3.
- Airplane fuselage. M. W. Mix. No. 1,428,341; Sept. 5.
- Airplane-landing director. B. S. Cameron. No. 1,420,922; July 18.
- Airplane propellers, Mold for. M. C. St. John. No. 1,411,310; Apr. 4.
- Airplane-radiator mounting. A. V. Verville. No. 1,427,872; Sept. 5.
- Airplane-receiving apparatus. R. Gibbons. No. 1,437,236; Nov. 28.
- Airplane wing. E. D. Walen. No. 1,409,982; Mar. 21.
- Airplane-wing construction. L. S. Marsh. No. 1,435,409; Nov. 14.
- Airplane-wing construction. J. W. Rapp and J. Vanorio. No. 1,403,444; Jan. 10.
- Airplanes, Chassis structure for. W. H. Phipps. No. 1,416,747; May 23.
- Airplanes, Device for landing and retaining. L. C. Weinberg. No. 1,432,815; Oct. 24.
- Airplanes, Dual control for. B. D. Thomas. No. 1,424,049; July 25.
- Airplanes, Level indicator for. H. R. Dulany. No. 1,410,661; Mar. 28.
- Airplanes, Propeller for. N. F. Overturf. No. 1,407,080; Feb. 21.
- Airplanes, Wing construction for. D. E. Dunlap. No. 1,424,996; Aug. 8.
- Air-pressure brake. H. Pieper. No. 1,437,675; Dec. 5.
- Air-pressure regulator. D. E. Gray. No. 1,437,138; Nov. 28.
- Air propeller, Adjustable metallic. R. F. Schmidt. No. 1,411,644; Apr. 4.
- Air-purifying apparatus. J. B. Gohmann. No. 1,418,296; June 6.
- Air regulator. R. H. Asher. No. 1,440,050; Dec. 26.
- Air release, Automatic. W. Ball. No. 1,414,249; Apr. 25.
- Air-seal-lock pneumatic inner tube. C. C. Harmon. No. 1,432,333; Oct. 17.
- Air separator. R. M. Gay. No. 1,414,636; May 2.
- Air service station. A. A. Ewald. No. 1,416,627; May 16.
- Airship. T. Barrett. No. 1,427,998; Sept. 5.
- Airship. C. J. Cooke. No. 1,426,047; Aug. 15.
- Airship. S. C. Farina. No. 1,408,873; Mar. 7.
- Airship. F. Gill. No. 1,405,407; Feb. 7.
- Airship. J. Schuette. Nos. 1,416,580-1; May 16.
- Airship. J. Schuette. No. 1,420,763; June 27.
- Airship. J. Schuette. No. 1,420,865; June 27.
- Airship. C. D. Thompson. No. 1,425,555; Aug. 15.
- Airship envelope. L. Dürr. No. 1,411,881; Apr. 4.
- Airship form. H. H. Suplee. No. 1,412,297; Apr. 11.
- Airship propelling, supporting, and landing mechanism. O. W. Benster. No. 1,430,880; Oct. 3.
- Airships, Power control for. T. E. Springer. No. 1,412,262; Apr. 11.
- Airships, Shed for. B. Kannenberg. No. 1,426,197; Aug. 15.
- Airships, System or method of feeding combustion engines for. A. Boerner. No. 1,423,987; July 25.
- Air signal. E. H. Camfield. No. 1,412,099; Apr. 11.
- Air spring. F. S. Church. No. 1,403,466; Jan. 10.
- Air spring. F. S. Church. No. 1,414,623; May 2.
- Air-spring rigging. L. R. Gruss. No. 1,422,566; July 11.
- Air-spring suspension. R. Liebau. Nos. 1,410,933-4; Mar. 28.
- Air stand. O. P. Canaday. No. 1,412,100; Apr. 11.
- Air station, Motor-driven automatic pressure coin-controlled. A. A. Ewald. No. 1,428,365; Sept. 5.
- Air, Sterilizing. A. Wolff. No. 1,423,704; July 25.
- Air-supply station. A. A. Ewald. No. 1,427,450; Aug. 29.
- Air vent and vacuum seal. C. V. Dean and C. A. Simonds. No. 1,424,756; Aug. 8.
- Air-vent drainage system. E. E. Trowbridge. No. 1,408,548; Mar. 7.
- Air washer. A. A. Day. No. 1,402,147; Jan. 3.
- Air washer. A. Pajalic. No. 1,411,374; Apr. 4.
- Air washer. K. K. Wyatt. No. 1,411,950; Apr. 4.
- Air-washing device. W. L. Dudley. No. 1,416,401; May 16.
- Alarm: See—
- Auto burglar alarm. Electric signal alarm.
- Auto theft alarm. Feed alarm.
- Automatic alarm. Fire alarm.
- Automatic fire alarm. Ice-chest alarm.
- Automobile alarm. Low-water alarm.
- Automobile burglar alarm. Overflow alarm.
- Automobile theft alarm. Picket alarm.
- Bearing alarm. Radiator alarm.
- Burglar alarm. Water alarm.
- Cash-drawer burglar alarm. Thermoelectric alarm.
- Alarm. J. Cronan. No. 1,406,937; Feb. 14.
- Alarm. J. B. Locker. No. 1,421,267; June 27.
- Alarm. A. C. and H. E. Schloth. No. 1,406,762; Feb. 14.
- Alarm. F. C. Stinzling. No. 1,428,124; Sept. 5.
- Alarm-clock switch, Automatic-acting. V. A. J. Corlin. No. 1,411,910; Apr. 4.
- Alarm device, Money-container. W. C. Dillon. No. 1,409,156; Mar. 14.
- Alarm for elevator grain bins. A. O. Miller. No. 1,432,078; Oct. 17.
- Alarm for strong boxes. J. Yano. No. 1,427,507; Aug. 29.
- Alarm system. F. E. Crawford. No. 1,418,628; June 6.
- Alarm system, Electric. W. S. Ludlow, Jr. No. 1,411,112; Mar. 28.
- Alarm systems, Detector for. F. E. Crawford. No. 1,423,601; July 25.
- Alarm transmitter, Electric. J. D. Nelson. No. 1,427,543; Aug. 29.
- Alarm whistle means for closure devices. F. C. Stinzling. No. 1,428,189; Sept. 5.
- Alarms, Mounting and control for. J. M. Butcher. No. 1,410,161; Mar. 21.

- Album, Phonograph-record. F. O. Wilking. No. 1,431,714; Oct. 10.
- Albumins from blood, Manufacture of decolorized, odorless, and tasteless. A. J. L. Terwen and C. J. C. van Hoogenhuyze. No. 1,415,277; May 9.
- Alcohol and acetone by fermentation, Producing butyl. G. D. Horton. No. 1,427,595; Aug. 29.
- Alcohol, Chlorination of isopropyl. H. E. Buc. No. 1,436,378; Nov. 21.
- Alcohol, Fermentation process for the production of acetone and butyl. C. Weizmann. No. 1,437,697; Dec. 5.
- Alcohol from acetaldehyde, Manufacture of ethyl. T. Lichtenbahn. No. 1,403,794; Jan. 17.
- Alcohol heater. F. W. Gehr. No. 1,421,209; June 27.
- Alcohol, Producing benzyl. R. E. Montouana. No. 1,416,859; May 23.
- Alcohol, Production of secondary butyl. C. Weizmann and D. A. Legg. No. 1,408,320; Feb. 28.
- Alcohol, Urethane of the trichloroethylic. R. Willstätter, W. Duisberg, and T. Callsen. No. 1,427,506; Aug. 29.
- Alcohols, Making. K. P. McElroy. No. 1,438,123; Dec. 5.
- Alcohols, Manufacture of. G. C. Schumann and G. Steimig. No. 1,410,223; Mar. 21.
- Alcohols, Purifying higher secondary. R. B. Lebo. No. 1,422,583; July 11.
- Alcoholysis, Obtaining complete. J. A. Steffens. No. 1,433,308; Oct. 24.
- Aldehydes and anhydrides from diesters, Manufacturing. F. W. Skirrow. No. 1,429,650; Sept. 19.
- Aldehydes and separating the same from the other products formed, Apparatus for making. A. A. Backhaus and F. B. Arentz. No. 1,426,449; Aug. 22.
- Aldehydes and their substitute derivatives, Production of aromatic. C. O. Benedetti and A. P. Vanselow and W. Vanselow. No. 1,405,261; Jan. 31.
- Aldehydes, Apparatus for the production of. A. A. Backhaus. No. 1,437,483; Dec. 5.
- Aldol from acetaldehyde, Manufacture of. N. Grünstein. No. 1,437,139; Nov. 28.
- Alginate composition and article. B. F. Erdahl. No. 1,415,850; May 9.
- Aligning gauge, Adjustable. A. W. Sobe. No. 1,438,343; Dec. 12.
- Aliphatic dialkylamino alkyl compounds and making same. M. Bockmühl and A. Schwarz. No. 1,429,922; Sept. 26.
- Alkalies, Fusion of organic substances with. F. W. Attack and J. Anderson. No. 1,430,277; Sept. 26.
- Alkali-metal monochromates into bichromates or chromic acid, Transforming. G. N. Vis. No. 1,429,001; Sept. 12.
- Alkali-metal salts and alkali-metal-salt brines, Treating. C. F. Runey and J. H. Show. No. 1,409,784; Mar. 14.
- Alkali-metal silicates in blast furnaces, Producing. S. Peacock. No. 1,425,048; Aug. 8.
- Alkaline brines and deposits, Recovering valuable constituents from. E. P. Stevenson. No. 1,415,206; May 9.
- Alkaline hypochlorites, Method and apparatus for producing. L. D. Vorce. No. 1,414,059; Apr. 25.
- Alkyl-amino compounds, Manufacture of aromatic. W. N. Haworth and F. W. Attack. No. 1,426,380; Aug. 22.
- Alkyl anilines, Producing. H. Rogers. No. 1,413,494; Apr. 18.
- Alkyl ethers of vinyl alcohols and homologues thereof, Manufacture of. H. Plauson. No. 1,436,288; Nov. 21.
- Alloy. A. H. Coplan. No. 1,433,180; Oct. 24.
- Alloy. S. M. Meyer and W. James. No. 1,425,330; Aug. 8.
- Alloy. F. Milliken. No. 1,432,607; Oct. 17.
- Alloy. A. U. Randall. No. 1,417,348; May 23.
- Alloy. W. H. Smith. No. 1,424,782; Aug. 8.
- Alloy. J. E. Springer. No. 1,413,880; Apr. 25.
- Alloy. J. O. Whiteley. No. 1,431,713; Oct. 10.
- Alloy aluminum. F. C. Frary. No. 1,412,250; Apr. 11.
- Alloy, Aluminum. F. C. Frary. (Reissue.) No. 15,407; July 11.
- Alloy, Aluminum. H. C. Hall. No. 1,418,303; June 6.
- Alloy and making same, Zirconium. F. M. Becket. No. 1,425,572; Aug. 15.
- Alloy and producing same. C. A. Laise. No. 1,423,338; July 18.
- Alloy containing iron, nickel, chromium. P. Girin. No. 1,422,096; July 11.
- Alloy for electrical contacts and making same. F. L. White. No. 1,436,844; Nov. 28.
- Alloy for repair purposes, Metallic. P. O. Melton. No. 1,429,959; Sept. 26.
- Alloy, Making and using metal scavenging. H. G. C. Thofehrn. No. 1,415,733; May 9.
- Alloy material; Coated iron-. W. J. Beck and J. A. Aupperle. No. 1,434,081; Oct. 31.
- Alloy metal. A. S. Hatfield. No. 1,434,246; Oct. 31.
- Alloy, Metallic. A. J. Mandell. No. 1,403,558; Jan. 17.
- Alloy mixer. J. A. Burnett. No. 1,413,651; Apr. 25.
- Alloy, Nickel. L. Canmen. No. 1,439,865; Dec. 26.
- Alloy of refractory metals and forming same. J. A. Yunk. No. 1,422,019; July 4.
- Alloy, Platinum. F. B. Fry. No. 1,407,525; Feb. 21.
- Alloy steel. C. M. Johnson. Nos. 1,420,707-8; June 27.
- Alloy, Steel and iron. P. de Clamecy. No. 1,428,534; Sept. 12.
- Alloy, Titanium. A. W. Clement. No. 1,431,725; Oct. 10.
- Alloy, Zinc. H. Goldschmidt and K. Müller. No. 1,421,686; July 4.
- Alloys, Manufacture of ferrochromium. W. B. Ballentine. No. 1,430,878; Oct. 3.
- Alloys, Manufacture of ferrous. H. A. Skelley and A. B. Smith. No. 1,437,273; Nov. 28.
- Alloys of aluminum and producing same. A. Manhart. No. 1,422,591; July 11.
- Alloys, Producing. A. Pacz. No. 1,402,088; Jan. 3.
- Alloys, Production of low-carbon ferro. N. Petinot. No. 1,428,057; Sept. 5.
- Alloys, Production of refractory metal. B. D. Saklatwalla and A. N. Anderson. No. 1,435,742; Nov. 14.
- Alloys, Separation and recovery of metals from metal. G. J. Kroll. No. 1,428,041; Sept. 5.
- Alloys to softer-steel bars, Uniting hard-steel. J. H. L. De Bats. No. 1,434,047; Oct. 31.
- Alternating-current motor. T. J. Murphy. No. 1,419,749; June 13.
- Alternator, High-frequency. E. F. W. Alexanderson. No. 1,426,943; Aug. 22.
- Altimeter. L. Rodés. No. 1,404,062; Jan. 17.
- Altitude meter. A. Harila. No. 1,418,922; June 6.
- Alum, Manufacturing chrome. G. H. Hultman. No. 1,403,960; Jan. 17.
- Alumina and potash, Producing. H. P. Bassett. No. 1,404,083; Jan. 17.
- Alumina and potash, Producing. H. P. Bassett. No. 1,410,642; Mar. 28.
- Alumina, Obtaining. R. S. Sherwin. No. 1,422,004; July 4.
- Alumina poor in iron, Producing. V. M. Goldschmidt and O. Ravner. No. 1,413,720; Apr. 25.
- Aluminum and its alloys, Solder for. G. Ferrière and S. Pfyffer. No. 1,437,641; Dec. 5.
- Aluminum chloride crystals, Preparing. H. Howard. No. 1,430,449; Sept. 26.
- Aluminum chloride from heavy hydrocarbon, Separating. C. O. Hoover. No. 1,426,081; Aug. 15.
- Aluminum chloride, Making. H. D. Gibbs. No. 1,422,560; July 11.
- Aluminum chloride, Manufacture of. F. W. Hall. No. 1,405,115; Jan. 31.
- Aluminum chloride, Manufacture of. F. W. Hall. No. 1,422,568; July 11.
- Aluminum chloride, Manufacture of. A. M. McAfee. No. 1,405,734; Feb. 7.
- Aluminum, Composition of matter for and method of soldering and welding. P. de Clamecy. No. 1,415,925; May 16.
- Aluminum, especially alunite, Treating ores of. F. B. MacCarthy. No. 1,413,045; Apr. 18.
- Aluminum fluoride, Producing granular. L. H. Milligan. No. 1,403,183; Jan. 10.
- Aluminum nitrate solutions, Production of alumina from. T. Mejdell. No. 1,413,754; Apr. 25.
- Aluminum nitride and other chemical substances, Apparatus for making. W. Hoopes. No. 1,415,446; May 9.
- Aluminum rolling pin. H. E. Kerr and E. C. Ahlheim. No. 1,405,920; Feb. 7.
- Aluminum-soldering composition. F. A. Albertus. No. 1,416,924; May 23.
- Aluminum sulphate, Decomposition of. H. M. Burkey and H. M. Schlicher. No. 1,415,308; May 9.
- Amalgam mixer. F. D. Leopold. No. 1,421,016; June 27.
- Amalgamating apparatus. C. C. Ellis. No. 1,411,773; Apr. 4.
- Amalgamating cell. C. C. McBride. No. 1,430,091; Sept. 26.
- Amalgamator. O. A. Burgess. No. 1,412,673; Apr. 11.
- Amalgamator. H. Loeven. No. 1,418,006; May 30.
- Amines, Making substituted. C. B. Chatfield. No. 1,429,714; Sept. 19.
- Aminoalcohol of the quinoline series and making same. K. Miescher. No. 1,434,306; Oct. 31.
- Aminoalcohols, Preparing optically active aromatic. A. Gams and E. Wybert. No. 1,423,101; July 18.
- Aminoargentomer captobenzene carboxylic acid and making same, Complex. A. Feldt. No. 1,439,624; Dec. 19.
- Ammonia, Catalytic apparatus for the synthesis of. L. Casale. No. 1,408,987; Mar. 7.
- Ammonia from its elements, Catalyst for the synthesis of. J. C. Clancy. No. 1,439,292; Dec. 19.
- Ammonia from its elements, Synthesis of. J. C. Clancy. No. 1,439,291; Dec. 19.
- Ammonia oxidation. C. H. MacDowell, H. H. Myers, and W. B. Pattison. No. 1,420,201; June 20.
- Ammonia process, Preparing a permanent and spinnable solution in the cupric. P. H. Minck. No. 1,421,707; July 4.
- Ammonia-soda process, Conducting the. E. E. Arnold and P. St. Clair, Jr. No. 1,423,510; July 25.
- Ammonia, Synthetic production of. F. W. de Jahn. No. 1,436,949; Nov. 28.
- Ammonium chloride from solution, Recovering. N. T. Bacon. No. 1,416,772; May 23.
- Ammonium sulphate, Purification of crude. N. Wilton. No. 1,412,549; Apr. 11.
- Ammunition, Fixed. L. L. Driggs, Jr. No. 1,417,460; May 23.
- Ammunition hoist. H. Techel. No. 1,425,916; Aug. 15.
- Ammunition, Primer for small-arms. H. T. Peck. Nos. 1,416,121-3; May 16.
- Amplifier. J. W. Milnor. No. 1,415,382; May 9.
- Amplifier, Low-frequency. L. Espenschied. No. 1,428,156; Sept. 5.

Alphabetical list of inventions—Continued.

- Amplifier, Vacuum spark. G. W. Henricks. No. 1,406,858; Feb. 14.
- Amplifiers from oscillating, Method and means for preventing. R. A. Heising. No. 1,426,733; Aug. 22.
- Amplifying system. E. F. W. Alexanderson. No. 1,419,797; June 13.
- Amplifying system. P. D. Lowell. No. 1,439,562; Dec. 19.
- Amusement apparatus. T. Boldizzoni. No. 1,409,279; Mar. 14.
- Amusement apparatus. F. R. Chester. No. 1,405,282; Jan. 31.
- Amusement apparatus. F. R. Chester. No. 1,410,371; Mar. 21.
- Amusement apparatus. E. A. Day and A. W. White. No. 1,407,642; Feb. 21.
- Amusement apparatus. W. F. Krahe. No. 1,421,960; July 4.
- Amusement apparatus. J. Metzger. No. 1,419,578; June 13.
- Amusement apparatus. E. Mongillo. No. 1,402,368; Jan. 3.
- Amusement apparatus. F. Labot and A. Schaik. No. 1,412,711; Apr. 11.
- Amusement apparatus. I. L. M. Schackle. No. 1,406,765; Feb. 14.
- Amusement-bar device, Child's. M. N. Sullivan. No. 1,436,367; Nov. 21.
- Amusement device. E. E. Behr. No. 1,435,405; Nov. 7.
- Amusement device. M. B. Benson. No. 1,409,357; Mar. 14.
- Amusement device. A. L. Black. No. 1,427,775; Sept. 5.
- Amusement device. M. A. Bruno. No. 1,416,783; May 23.
- Amusement device. J. C. Callais. No. 1,421,907; July 4.
- Amusement device. F. Chapman. No. 1,422,032; July 4.
- Amusement device. A. B. Chate and L. J. Picha. Nos. 1,410,372-3; Mar. 21.
- Amusement device. R. F. Downey. No. 1,432,746; Oct. 24.
- Amusement device. T. Druzbach. No. 1,437,406; Dec. 5.
- Amusement device. B. Finazzo. No. 1,437,299; Nov. 28.
- Amusement device. J. D. Froman. No. 1,422,688; July 11.
- Amusement device. W. C. Hadley. No. 1,403,947; Jan. 17.
- Amusement device. W. C. Hadley. Nos. 1,403,950-1; Jan. 17.
- Amusement device. W. C. Hadley. Nos. 1,431,891-2; Oct. 10.
- Amusement device. H. E. K. Hingenitz. No. 1,405,213; Jan. 31.
- Amusement device. W. Hoch. No. 1,433,135; Oct. 24.
- Amusement device. A. Hulsman. No. 1,421,238; June 27.
- Amusement device. E. U. Jaques. No. 1,423,428; July 18.
- Amusement device. F. Joyner. No. 1,433,377; Oct. 24.
- Amusement device. A. E. Landzettel. No. 1,435,484; Nov. 14.
- Amusement device. S. Liuni. No. 1,417,754; May 30.
- Amusement device. H. B. Loeb. No. 1,425,264; Aug. 8.
- Amusement device. M. S. Mamoulia. No. 1,436,625; Nov. 21.
- Amusement device. E. J. Mayer. No. 1,420,437; June 20.
- Amusement device. W. G. Miller. No. 1,430,396; Sept. 26.
- Amusement device. C. C. Mygind. No. 1,411,451; Apr. 4.
- Amusement device. S. C. Nagle. No. 1,437,261; Nov. 28.
- Amusement device. F. O. Permin. No. 1,413,349; Apr. 18.
- Amusement device. E. Price. No. 1,406,412; Feb. 14.
- Amusement device. R. C. Pryor. No. 1,407,084; Feb. 21.
- Amusement device. J. M. Realing. No. 1,417,566; May 30.
- Amusement device. H. N. Ridgway. No. 1,417,570; May 30.
- Amusement device. C. F. Schake. No. 1,435,984; Nov. 21.
- Amusement device. C. Schindler. No. 1,435,665; Nov. 14.
- Amusement device. G. W. Smutz. No. 1,420,225; June 20.
- Amusement device. J. B. Strauss. No. 1,420,887; June 27.
- Amusement device. J. E. Sturges. No. 1,438,671; Dec. 12.
- Amusement device. W. M. Tietz. No. 1,439,205; Dec. 19.
- Amusement device. A. Veaux and G. Chakiris. No. 1,409,071; Mar. 7.
- Amusement device. G. C. Weiss. No. 1,406,431; Feb. 14.
- Amusement device. J. C. Welch. No. 1,406,705; Feb. 14.
- Amusement device. D. E. Welsh. No. 1,432,224; Oct. 17.
- Amusement device. W. Williams. No. 1,426,624; Aug. 22.
- Amusement device. C. W. Wilson. No. 1,418,999; June 6.
- Amusement device, Public. P. Maiwurm. No. 1,409,227; Mar. 14.
- Amusement device, (revolving walking beam.) E. Kohler. No. 1,405,923; Feb. 7.
- Amusement-park device. F. Sallmann. No. 1,429,457; Sept. 19.
- Amusement-park device. P. Simon. No. 1,426,418; Aug. 22.
- Amusement ride. C. J. Brilstra. No. 1,431,564; Oct. 10.
- Amusement ride. J. Irsch. No. 1,422,764; July 11.
- Amusement ride. H. F. Maynes. No. 1,439,478; Dec. 19.
- Anesthetic gases, Apparatus for administering. R. von Foregger. No. 1,433,104; Oct. 24.
- Anesthetizing machine. J. A. Heidbrink and B. J. Clark. No. 1,412,866; Apr. 18.
- Anastomosis clamp. H. Brix. No. 1,413,896; Apr. 25.
- Anchor. E. J. Meier. No. 1,414,992; May 2.
- Anchor and bracket, Faucet-supporting. O. S. Burman. No. 1,410,363; Mar. 21.
- Anchor, Earth. J. Blackburn. No. 1,407,920; Feb. 28.
- Anchor, Fence. I. E. Clum. No. 1,426,044; Aug. 15.
- Anchor hook. A. Capirosso. No. 1,419,016; June 6.
- Anchor, Rail. P. W. Moore. No. 1,433,639; Oct. 31.
- Anchor, Rail. H. G. Warr. No. 1,419,333; June 13.
- Anchor, Safety. C. R. Dowler. No. 1,408,082; Feb. 28.
- Anchor, Stockless. E. J. Clark. No. 1,412,102; Apr. 11.
- Anchorage, Expansion. J. E. Ogden. No. 1,419,979; June 20.
- Anchoring device. P. A. Vaile. No. 1,412,582; Apr. 11.
- Anchoring or securing device. C. G. Girolami. No. 1,428,327; Sept. 5.
- Anchors made of plastic and semiplastic material, Reinforced. L. A. B. Hutton. No. 1,433,621; Oct. 31.
- Andiron. W. C. Ward. No. 1,418,411; June 6.
- Andirons and screen, Fireplace. J. W. Mahoney. No. 1,416,369; May 16.
- Angle bar and nut lock. J. J. Bowman. No. 1,423,394; July 18.
- Angle block. W. H. Weingar. No. 1,428,509; Sept. 5.
- Angle iron, Machine for bending. C. P. Buck. No. 1,428,001; Sept. 5.
- Angle of allowance in front on attacking a moving target, Telescopic device for determining the. H. Techel. No. 1,423,168; July 18.
- Angle plate, Adjustable. A. W. Nelson. No. 1,414,970; May 2.
- Anhydrous aluminum chloride, Production of. L. Burgess. No. 1,405,183; Jan. 31.
- Animal catcher. J. Boff. No. 1,436,473; Nov. 21.
- Animal catcher. F. Sajtar. No. 1,426,220; Aug. 15.
- Animal extermination, Apparatus for underground. J. W. Van Meter. No. 1,403,461; Jan. 10.
- Animal feed and making same. G. Laird. No. 1,432,295; Oct. 17.
- Animal head. M. Lichtenstein. No. 1,432,704; Oct. 17.
- Animal hopple. L. Schweikowski. No. 1,439,487; Dec. 19.
- Animal marker. C. E. Timson. No. 1,436,119; Nov. 21.
- Animal poke. O. H. Harris. No. 1,417,245; May 23.
- Animal-releasing device. N. P. Roslund. No. 1,419,989; June 20.
- Animal trap. A. T. Allen. No. 1,435,576; Nov. 14.
- Animal trap. G. G. Anderson. No. 1,429,011; Sept. 12.
- Animal trap. D. and W. Beaudette. No. 1,413,701; Apr. 25.
- Animal trap. C. Cain. No. 1,418,864; June 6.
- Animal trap. G. F. Corle. No. 1,415,801; May 9.
- Animal trap. C. A. Dickey. No. 1,410,737; Mar. 28.
- Animal trap. W. Dunn. No. 1,422,424; July 11.
- Animal trap. J. Dupra. No. 1,436,486; Nov. 21.
- Animal trap. A. B. Fairbanks and O. C. Hanel. No. 1,438,816; Dec. 12.
- Animal trap. W. Gedvilas. No. 1,420,833; June 27.
- Animal trap. J. A. Hedberg. No. 1,423,715; July 25.
- Animal trap. H. J. Hughey. No. 1,424,307; Aug. 1.
- Animal trap. C. E. Hunt. No. 1,435,472; Nov. 14.
- Animal trap. C. H. Johnson. No. 1,413,536; Apr. 18.
- Animal trap. J. Kendzierski. No. 1,424,827; Aug. 8.
- Animal trap. J. W. McElfresh. No. 1,436,072; Nov. 21.
- Animal trap. O. G. Meredith. No. 1,402,002; Jan. 3.
- Animal trap. J. R. Osuna. No. 1,409,884; Mar. 14.
- Animal trap. C. C. Rockwell. No. 1,423,261; July 18.
- Animal trap. M. Skutob. No. 1,404,486; Jan. 24.
- Animal trap. A. Skubinski. No. 1,422,894; July 18.
- Animal trap. J. R. Spencer. No. 1,407,096; Feb. 21.
- Animal trap. C. R. Stenberg. No. 1,434,163; Oct. 31.
- Animal trap. J. W. Strausbaugh. No. 1,439,200; Dec. 19.
- Animal trap. T. Yamasaki. No. 1,425,355; Aug. 8.
- Animal trap. J. P. Webb. No. 1,402,197; Jan. 3.
- Animal trap, Self-set. R. E. Bounds and P. S. Dumbolton. No. 1,415,301; May 9.
- Animal traps, Jaw for. A. M. Ahern. No. 1,428,512; Sept. 12.
- Animals in process of slaughtering, Method and apparatus for removing blood from. J. A. Wilson. No. 1,428,672; Sept. 12.
- Ankle supporter. H. B. Hamilton. (Reissue.) No. 15,446; Sept. 5.
- Annealing and other furnace. R. C. Stiefel. No. 1,414,489; May 2.
- Annealing box. H. H. Goodsell. No. 1,421,212; June 27.
- Annealing device. J. Aderer. No. 1,431,618; Oct. 10.
- Annealing device. C. E. Pyle. No. 1,414,789; May 2.
- Annealing furnace. C. A. Ross. No. 1,409,584; Mar. 14.
- Annealing furnace. H. J. Scanlon and M. B. Kelly. No. 1,409,119; Mar. 17.
- Annealing furnace. C. E. Sorensen. No. 1,406,424; Feb. 14.
- Annealing furnace, Continuous. M. Van Marle. No. 1,429,380; Sept. 19.
- Annealing furnace or leer. W. O. Amsler. No. 1,415,622; May 9.
- Annealing malleable cast iron. C. T. Holcroft. No. 1,422,710; July 11.
- Annealing metal. E. G. Budd and J. Ledwinka. No. 1,427,753; Aug. 20.
- Annealing or otherwise treating metal, Appliances for. A. Howgate. No. 1,427,390; Aug. 20.
- Annealing-pot carriage. H. J. Scanlon. No. 1,409,118; Mar. 7.
- Annealing thin steel sheets, Apparatus for. S. Peacock. No. 1,427,319; Aug. 20.
- Annunciator. W. T. Dippel. No. 1,416,340; May 16.
- Annunciator. W. T. Dippel. No. 1,418,702; June 6.

- Annunciator. C. P. Evans, M. L. Greenstreet, and W. Day. No. 1,430,361; Sept. 26.
- Annunciator. J. W. Pope. No. 1,404,542; Jan. 24.
- Annunciator. H. Robinson. No. 1,406,899; Feb. 14.
- Annunciator, Call. H. F. Plumb. No. 1,418,969; June 6.
- Annunciator drop. C. Herrmann. No. 1,439,817; Dec. 26.
- Annunciator drop. F. W. Wood. No. 1,405,812; Feb. 7.
- Annunciator, Rotary. F. W. Wood. No. 1,420,801; June 27.
- Annunciator-setting device. S. D. Rose. No. 1,438,555; Dec. 12.
- Anode. M. E. Stewart. No. 1,435,671; Nov. 14.
- Antenna, Removing sleet from. E. F. W. Alexanderson. No. 1,404,726; Jan. 31.
- Anthracene, Producing high-percentage pure. L. Weil. No. 1,419,186; June 13.
- Anthracene, Purification of crude. E. Portheim. No. 1,404,055; Jan. 17.
- Anthraquinone derivatives and making same. K. Wilke. No. 1,417,875; May 30.
- Anthraquinone, Manufacture of. C. Conover and H. D. Gibbs. No. 1,417,367; May 23.
- Anthraquinone purification. H. F. Lewis. No. 1,420,198; June 20.
- Anthraquinone, Purification of. H. F. Lewis. No. 1,429,514; Sept. 19.
- Anthraquinone, Purification of. E. Portheim. No. 1,404,056; Jan. 17.
- Anthraquinone series, Manufacture of compounds of the. F. W. Attack. No. 1,434,989; Nov. 7.
- Anthraquinone series, Manufacture of condensation products of the. E. Steimbuch, F. Ackermann, and M. Utzinger. No. 1,437,783; Dec. 5.
- Anticorrosion expansion joint. F. E. Johnson, jr. No. 1,434,952; Nov. 7.
- Anticoupling mechanism. R. G. Averill. No. 1,433,924; Oct. 31.
- Anticreep. H. G. Gillmor. No. 1,422,260; July 11.
- Anticreep. F. A. Preston. No. 1,430,584; Oct. 3.
- Anticreeping clamp. W. J. Costello. No. 1,440,062; Dec. 26.
- Anticreeping device. W. W. Holland. No. 1,420,703; June 27.
- Antifouling composition. G. D. Coleman. No. 1,421,914; July 4.
- Antifirction attachment for greenhouse benches. P. I. Andrews. No. 1,419,484; June 13.
- Antifirction center-bearing. J. F. O'Connor. No. 1,436,283; Nov. 21.
- Antifirction elements, Making. L. W. Rockwell. No. 1,431,183; Oct. 10.
- Antilazare device. R. W. Lewis and S. McDonald. No. 1,435,014; Nov. 7.
- Antihunting regulator system. S. A. Stage. Nos. 1,419,421-2; June 13.
- Antimiring device. H. G. Carroll. No. 1,425,448; Aug. 8.
- Antimony sulphide and making same, Precipitated. A. L. Stark. No. 1,415,127; May 9.
- Antimony sulphide, Making precipitated. A. L. Stark. Nos. 1,414,836-7; May 2.
- Antimony trichloride, Preparing aqueous solutions of. C. E. Williams. No. 1,425,565; Aug. 15.
- Antirattler. H. W. Benner. No. 1,427,774; Sept. 5.
- Antirattler. J. W. Martin. No. 1,424,577; Aug. 1.
- Antirattler for window sashes. H. C. Noble. No. 1,406,409; Feb. 14.
- Antirattling channel for windows. W. R. Woodward. No. 1,435,039; Nov. 7.
- Antirattling device. J. L. Edelen. No. 1,436,387; Nov. 21.
- Antirattling device. J. L. McClintock. No. 1,439,113; Dec. 19.
- Antirattling joint for steering gears. N. A. Locke. No. 1,408,213; Feb. 28.
- Antiskid and traction device. F. W. Myers. No. 1,425,037; Aug. 8.
- Antiskid attachment. S. Bredice. No. 1,434,527; Nov. 7.
- Antiskid attachment. F. T. Vergin. No. 1,415,738; May 9.
- Antiskid attachment for vehicle wheels. S. A. Glidden. No. 1,431,392; Oct. 10.
- Antiskid brake. M. H. Fahrney. No. 1,432,594; Oct. 17.
- Antiskid chain. R. Briggs. No. 1,429,674; Sept. 19.
- Antiskid chain. R. W. Evans. No. 1,402,053; June 20.
- Antiskid-chain applying and removing device. A. H. Weber. No. 1,439,933; Dec. 26.
- Antiskid-chain-applying device. C. Flugel. No. 1,429,677; Sept. 19.
- Antiskid-chain-tightening device. P. E. Fellows. No. 1,423,202; July 18.
- Antiskid chains, Detachable link for vehicle-wheel. R. B. Paddock. No. 1,418,392; June 6.
- Antiskid chains, Link for. O. I. Hess. No. 1,432,107; Oct. 17.
- Antiskid device. W. Berndt. No. 1,409,278; Mar. 14.
- Antiskid device. T. R. Bingham. No. 1,412,832; Apr. 18.
- Antiskid device. W. E. Breistford. No. 1,412,040; Apr. 11.
- Antiskid device. H. J. Cohn. No. 1,437,093; Nov. 28.
- Antiskid device. W. E. Davis. No. 1,405,672; Feb. 7.
- Antiskid device. J. L. Donat. No. 1,421,922; July 4.
- Antiskid device. J. H. Evans. No. 1,424,347; Aug. 1.
- Antiskid device. F. A. Greenfield. No. 1,407,529; Feb. 21.
- Antiskid device. F. W. Hanley. No. 1,439,548; Dec. 19.
- Antiskid device. W. H. Krug. No. 1,412,786; Apr. 11.
- Antiskid device. M. Z. Lanoue. No. 1,437,761; Dec. 5.
- Antiskid device. W. L. Majors. No. 1,422,285; July 11.
- Antiskid device. R. A. McGonigal. No. 1,410,690; Mar. 28.
- Antiskid device. T. J. O'Neil. No. 1,423,963; July 25.
- Antiskid device. G. A. Payne. No. 1,431,484; Oct. 10.
- Antiskid device. J. T. Peed. No. 1,407,711; Feb. 28.
- Antiskid device. H. St. Pierre. (Reissue.) No. 15,511; Dec. 26.
- Antiskid device. D. P. Small. No. 1,403,270; Jan. 10.
- Antiskid device. C. M. Smith. No. 1,403,982; Jan. 17.
- Antiskid device. G. D. Winters. No. 1,422,646; July 11.
- Antiskid device and tire protector. F. Prokupek. No. 1,407,298; Feb. 21.
- Antiskid device for motor vehicles. S. H. Davies. No. 1,432,971; Oct. 24.
- Antiskid device for shoes. G. L. Sweny. No. 1,431,193; Oct. 10.
- Antiskid device for vehicle wheels. J. H. Hilliard. No. 1,404,524; Jan. 24.
- Antiskid device for vehicle wheels. W. H. Love. No. 1,405,051; Jan. 31.
- Antiskid device for vehicle wheels. C. D. Schmidt. No. 1,421,103; June 27.
- Antiskid means for automobile wheels. W. I. Randle. No. 1,420,667; June 27.
- Antiskid or mud chain. J. Starkweather. No. 1,439,922; Dec. 26.
- Antiskid or traction chain for wheels. R. M. Fiala. No. 1,410,396; Mar. 21.
- Antiskid wheel attachment. F. L. Warner and U. G. Riggs. No. 1,439,931; Dec. 26.
- Antiskidding device. A. R. Andersen. No. 1,415,289; May 9.
- Antiskidding device. F. W. French. No. 1,412,929; Apr. 18.
- Antiskidding device. J. A. Maguire. No. 1,419,680; June 13.
- Antiskidding device. W. H. Pendleton. No. 1,417,560; May 30.
- Antiskidding device. H. A. Ward. No. 1,414,238; Apr. 25.
- Antiskidding devices, Attaching means for. S. D. Jacobson. No. 1,406,458; Feb. 14.
- Antiskidding devices, Tread member for. W. H. Grove. No. 1,414,638; May 2.
- Antislip device. L. W. Grein. No. 1,408,730; Mar. 7.
- Antislipping device. J. D. Groover. No. 1,418,916; June 6.
- Antislipping device. J. E. McKinney. No. 1,403,799; Jan. 17.
- Antislipping device. J. E. Miller. No. 1,437,258; Nov. 28.
- Antislipping device. S. Shimko. No. 1,433,660; Oct. 31.
- Antisparr-roosting device. F. E. Powell and P. M. McNary. No. 1,435,940; Nov. 21.
- Antivibration catch. W. S. Roberts and C. H. Hodgkins. No. 1,430,589; Oct. 3.
- Anti-window rattler. W. N. Russell. No. 1,402,017; Jan. 3.
- Ant trap. J. D. Scrivner. No. 1,424,596; Aug. 1.
- Anvil. E. J. McIlvried. No. 1,410,692; Mar. 28.
- Anvils, Shoe-holder attachment for. E. Travenski. No. 1,402,687; Jan. 3.
- Apparatus for baling loose materials. G. Welger. No. 1,409,128; Mar. 7.
- Apparatus support. O. H. and A. F. Pieper. No. 1,434,793; Nov. 7.
- Apparel. F. H. Miller. No. 1,404,465; Jan. 24.
- Apparel apparatus. M. Bregman. No. 1,440,325; Dec. 26.
- Apparel, Lady's. L. Brenner. No. 1,421,062; June 27.
- Apparel outfit, Child's. H. S. Burns. No. 1,435,146; Nov. 14.
- Apparel, Securing attaching strings to wearing. F. L. Streiffeld. No. 1,405,171; Jan. 31.
- Apple-facing device. E. G. Berna. No. 1,413,957; Apr. 25.
- Applicator brush. J. A. Rayder. No. 1,426,909; Aug. 22.
- Applying apparatus. H. B. Greenough. No. 1,407,026; Feb. 21.
- Apron. R. J. Christian. No. 1,411,562; Apr. 4.
- Apron control. B. W. Brackett. No. 1,432,832; Oct. 24.
- Apron, Mechanic's. J. Bloch. No. 1,413,569; Apr. 25.
- Apron wheel. L. A. Krupp. No. 1,419,390; June 13.
- Aprons, Slat for binder. E. Miller. No. 1,403,312; Jan. 31.
- Aquarium. C. H. O'Rourke. No. 1,438,133; Dec. 5.
- Aquarium structure. A. G. Bauer. No. 1,432,827; Oct. 24.
- Aqueous and other vapors from fluids and solids and for preparing dilute sulphuric acid, Separating. O. Maass. No. 1,417,618; May 30.
- Arbor, Collapsible. H. L. Haven. No. 1,427,155; Aug. 29.
- Arbor press. J. H. Staley. No. 1,421,738; July 4.
- Arc-current regulator. J. A. Hollifield. No. 1,415,565; May 9.
- Arc-describing instrument. F. H. Murray. No. 1,427,493; Aug. 29.
- Arc-light cluster. M. Mayer. No. 1,409,191; Mar. 14.
- Arc shield. W. H. Kempton. No. 1,431,961; Oct. 17.
- Arc welding, Constant-current generator for. K. L. Hansen. No. 1,418,707; June 6.
- Arc welding, Metallic. J. Churchward. No. 1,403,230; Jan. 10.
- Arc-welding system. A. M. Bennett, W. B. Elliott, and W. O'Brien. No. 1,415,012; May 9.

Alphabetical list of inventions—Continued.

- Arc-welding system and operating same. H. D. Morton. (Reissue.) No. 1,531,313; Mar. 21.
- Arc-welding system, Constant-current. W. B. Elliott and W. O'Brien. No. 1,412,463; Apr. 11.
- Arch. N. A. McIvor. No. 1,412,477; Apr. 11.
- Arch form, Collapsible. G. A. Compton. No. 1,424,342; Aug. 1.
- Arch, Furnace. J. W. Gates. No. 1,404,845; Jan. 31.
- Arch support. J. Abramowitz. No. 1,418,048; May 30.
- Arch support. R. Caterini. No. 1,408,267; Feb. 28.
- Arch support. L. Gutmann. No. 1,417,600; May 30.
- Arch support. R. Lustig. No. 1,426,750; Aug. 22.
- Arch support. J. T. McIsaac. No. 1,404,624; Jan. 24.
- Arch support. J. Mosher. No. 1,420,492; June 20.
- Arch support, Pneumatic. A. T. Hanson. No. 1,435,602; Nov. 14.
- Arch supporter. E. Altieri. No. 1,434,471; Nov. 7.
- Arch supporter. C. E. Chase. No. 1,406,957; Feb. 14.
- Arch supports, Metatarsal. J. J. McCartin. No. 1,416,103; May 16.
- Arithmetical puzzle blocks. F. S. Greene. No. 1,432,062; Oct. 17.
- Arm and hand, Artificial. A. Mantel. No. 1,420,122; June 20.
- Arm, Artificial. P. Nicola. No. 1,422,468; July 11.
- Arm, back, seat, etc., Upholstered curved. C. C. Meutsch. No. 1,414,828; May 2.
- Armband. G. Rottman. No. 1,410,222; Mar. 21.
- Armband clasp. F. C. Morton. No. 1,433,837; Oct. 31.
- Armchair, Couch. P. E. Kurnick. No. 1,421,260; June 27.
- Arm, Extensible. J. H. Ellis. No. 1,411,480; Apr. 4.
- Arm, Hammerless small. J. Dessard. No. 1,430,218; Sept. 26.
- Armrest. L. H. Simpson. No. 1,407,174; Feb. 21.
- Armrest. C. R. Spencer. No. 1,426,787; Aug. 22.
- Arms, Adjustable connection for actuating. L. G. Collyer. No. 1,421,408; July 4.
- Arms ammunition, Primer for small. H. T. Pack. No. 1,407,767; Feb. 28.
- Arms, Attachment for artificial. W. A. McElroy. No. 1,417,267; May 23.
- Arms, Clamping device for artificial. O. Semeleder. No. 1,429,111; Sept. 12.
- Arms practice, Target for small. C. Fenton. No. 1,424,632; Aug. 1.
- Armature. V. G. Apple. No. 1,438,423; Dec. 12.
- Armature tester. P. A. Gaalaas. No. 1,412,051; Apr. 11.
- Armature winding. A. W. Houchin. No. 1,415,875; May 16.
- Armature winding. W. J. Warder, jr. No. 1,430,130; Sept. 26.
- Armature-winding machine. P. F. Rhoades and W. M. Welling. No. 1,408,639; Mar. 7.
- Armature windings, Machine for positioning. J. F. Cullin. No. 1,402,217; Jan. 3.
- Armatures, Making. V. G. Apple. No. 1,438,422; Dec. 12.
- Armor, Protective light. A. R. Wallace. No. 1,418,995; June 6.
- Aromatic compounds containing carbonyl groups with trivalent arsenic, Producing new. A. Albert. No. 1,425,931; Aug. 15.
- Aromatic derivatives, Manufacture of. W. Bader and D. A. Nightingale. No. 1,433,925; Oct. 31.
- Aromatic ring compounds into motor spirit, Conversion of. A. S. Ramage. No. 1,439,976; Dec. 26.
- Arrow. R. P. Orr. No. 1,424,674; Aug. 1.
- Arsenate of lead, Manufacturing. A. O. Allen. No. 1,427,049; Aug. 22.
- Arsenic compounds, Derivatives of organic. A. Albert. No. 1,425,929; Aug. 15.
- Arsenic oxides or arsenobenzols, Manufacturing new. A. Albert. No. 1,425,930; Aug. 15.
- Arsenic, Producing. J. F. Cullen. No. 1,433,533; Oct. 31.
- Arsenic trichloride, Making. L. H. Milligan. No. 1,421,978; July 4.
- Arsenical compound of the acridine series and making same. L. Benda. No. 1,408,974; Mar. 7.
- Arsenical compounds, Manufacture of. K. B. Edwards. No. 1,422,945; July 18.
- Arsenical compounds, Manufacture of. K. B. Edwards. No. 1,424,006; July 25.
- Arseno-benzene derivatives and making same. Stable. W. Kollé and A. Binz. No. 1,431,671; Oct. 10.
- Arseno-stibino compounds and making the same, Complex. C. N. Myers. No. 1,422,294; July 11.
- Arterial pulsations, Method of and apparatus for recording. M. G. Casares. No. 1,413,389; Apr. 18.
- Article-attaching machine. A. Grieb. No. 1,413,477; Apr. 18.
- Article carrier. J. S. Davis. No. 1,434,594; Nov. 7.
- Article carrier. D. E. Hagerman. No. 1,412,054; Apr. 11.
- Article carrier. O. W. Roper. No. 1,437,777; Dec. 5.
- Article holder. E. Horn. No. 1,439,106; Dec. 19.
- Article holder. D. C. Wisenberg. No. 1,424,607; Aug. 1.
- Article of a plurality of parts, Means for manufacturing an. F. C. Fischer. No. 1,430,634; Oct. 3.
- Article of manufacture. W. S. Bechtold. No. 1,435,911; Nov. 21.
- Article of manufacture. E. W. Clark. (Reissue.) No. 1,539,3; June 27.
- Article of manufacture. C. R. Hoyme. No. 1,432,249; Oct. 17.
- Article of manufacture. F. T. and E. B. Hughes. No. 1,439,243; Dec. 19.
- Article retainer. H. Fulton. No. 1,429,027; Sept. 12.
- Articles, Apparatus for cleaning. G. W. Schweinsberg and M. I. Doyle. No. 1,422,309; July 11.
- Articles, Forming cast. G. W. Bungay. No. 1,438,933; Dec. 12.
- Articles, Joining metal. G. Kübler. No. 1,407,202; Feb. 21.
- Articles, Mechanism for holding or transferring. F. M. Furber. No. 1,438,482; Dec. 12.
- Articles, Mechanism or apparatus for holding or transferring. F. M. Furber. Nos. 1,438,480-1; Dec. 12.
- Artificial internal members of the human body, Material for. F. Hauptmeyer. No. 1,421,776; July 4.
- Artillery, Axle spade for mobile. N. Kock. No. 1,417,923; May 30.
- Artillery-fire-control apparatus. G. Boniti. No. 1,409,891; Mar. 14.
- Artillery purposes, Exploding projectile for. O. Wilhelm. No. 1,435,773; Nov. 14.
- Asbestos-cement product and forming the same. R. V. Mattison. No. 1,423,000; July 18.
- Asbestos-fiber separator. A. Angers. No. 1,419,437; June 13.
- Asbestos ironing pad. E. R. Emery. No. 1,402,154; Jan. 3.
- Asbestos product. J. A. Heany. No. 1,439,166; Dec. 19.
- Asbestos-sheet cutter. L. Kirsch. No. 1,439,556; Dec. 19.
- Asbestos, Treating. J. A. Heany. No. 1,407,686; Feb. 21.
- Asbestos yarn, Making. E. F. Nanfeldt. No. 1,437,438; Dec. 5.
- Ash collecting and dumping machine. W. Eiermann. No. 1,415,024; May 9.
- Ash conveyer. L. A. Griffin. No. 1,439,886; Dec. 26.
- Ash ejector. E. Hahn. No. 1,420,544; June 20.
- Ash handler. W. D. Engelke. No. 1,407,847; Feb. 28.
- Ash hopper. A. P. Strong. No. 1,422,900; July 18.
- Ash pan. A. J. Kowalsky. No. 1,413,739; Apr. 25.
- Ash pan. W. C. Metzger. No. 1,424,508; Aug. 1.
- Ash pan. C. F. Milholen. No. 1,423,352; July 18.
- Ash receiver. F. E. Ayer. No. 1,408,970; Mar. 7.
- Ash receiver, Armchair. C. E. Carpenter. No. 1,433,782; Oct. 31.
- Ash receptacle. L. Aptowicz. No. 1,422,165; July 11.
- Ash receptacle. R. Ozabal. No. 1,423,538; July 25.
- Ash-sifter housing. Dust-removing. R. Lind. No. 1,432,474; Oct. 17.
- Ash-sifting shovel. P. J. McCulloch. No. 1,436,271; Nov. 21.
- Ash tray. H. Negbaur. No. 1,427,838; Sept. 5.
- Ash tray and receptacle. S. Meyer. No. 1,422,879; July 18.
- Ash tray and similar receptacle. S. W. Farber. No. 1,424,348; Aug. 1.
- Ashes washer, Furnace. H. M. Webster. No. 1,417,645; May 30.
- Asphalt and making a stable mixture thereof with stony material, Artificial. H. Kambach. No. 1,433,137; Oct. 24.
- Asphalt cutter. R. J. Sweet. No. 1,413,630; Apr. 25.
- Asphalt, producing same, and packings made therefrom, Sponge. A. C. Fischer. No. 1,401,974; Jan. 3.
- Asphaltic products, Producing. L. Kirschbraun. No. 1,436,450; Nov. 21.
- Assembling devices comprising a number of parts, Apparatus for. J. W. Upp. No. 1,408,047; Feb. 28.
- Assembling machine, Ball-race. A. H. Lombom and J. R. Perry. No. 1,437,431; Dec. 5.
- Assembling machine, Sheet. S. Cooper. No. 1,414,010; Apr. 25.
- Assorting device. J. G. Arcaro and T. C. Furr. No. 1,419,485; June 13.
- Atomizer. H. C. Brehmer. No. 1,423,989; July 25.
- Atomizer. E. C. Petcher. No. 1,422,778; July 11.
- Atomizer and burner for liquid fuels, Combined. A. E. Windle. No. 1,426,697; Aug. 22.
- Atomizing more or less viscous materials, Method and means for. A. Sonsthagen and E. H. Harberd. No. 1,427,559; Aug. 29.
- Attaching device. A. W. Harrison. No. 1,427,953; Sept. 5.
- Attaching device. W. M. Parker. No. 1,429,369; Sept. 19.
- Attaching device. R. S. Peirce. No. 1,407,570; Feb. 21.
- Attaching device. L. L. Salisberg. No. 1,412,970; Apr. 18.
- Attaching machine. W. E. Elliott. No. 1,410,559; Mar. 28.
- Audibility meter. E. Garretson. No. 1,421,355; June 27.
- Audience, Means of addressing an. W. Dobson. No. 1,406,726; Feb. 14.
- Audion or lamp relay or amplifying apparatus. M. C. A. Latour. No. 1,405,523; Feb. 7.
- Audions, Manufacturing. W. F. Hendry. No. 1,426,734; Aug. 22.
- Audiphone transmitter, Portable. C. E. Williams. No. 1,439,212; Dec. 19.
- Auger, Adjustable. N. Masters. No. 1,410,206; Mar. 21.
- Auger bit. E. T. McPherson. No. 1,417,760; May 30.
- Auger bits, Countersinking attachment for. A. Gunderesen. No. 1,435,639; Nov. 14.
- Auger bits, Method of and mechanism for producing. W. L. Schellenbach and D. Lacy. No. 1,411,191; Mar. 28.

- Auger bits, Producing. B. H. Daulton. No. 1,420,527; June 20.
- Auger, Coal. G. E. Williams, J. E. Stultz, and R. E. Hill. No. 1,437,033; Nov. 28.
- Auger drills, Making, reshaping, and sharpening. W. Stephens. No. 1,403,652; Jan. 17.
- Auger, Expanding. F. B. Spry. No. 1,427,705; Aug. 29.
- Auger, Posthole. N. Wilber and W. Fritze. No. 1,411,395; Apr. 4.
- Auger, Power posthole. L. J. Herdlitchka. No. 1,406,187; Feb. 14.
- Auger, Stump. W. Hughes. No. 1,411,104; Mar. 28.
- Auricular apparatus. G. L. Jonason. No. 1,436,264; Nov. 21.
- Auto abstract and deposit, Combination. J. M. Bennett. No. 1,402,339; Jan. 3.
- Auto attachment. D. W. Minnich. No. 1,416,569; May 16.
- Auto axle support. D. Buckley. No. 1,432,963; Oct. 24.
- Auto body, Dumping. M. L. Winaus. No. 1,432,313; Oct. 17.
- Auto brake. R. P. Pesusich. No. 1,428,802; Sept. 12.
- Auto burglar alarm. D. B. Sheller. No. 1,418,177; May 30.
- Auto card and key case. E. G. Ingraham. No. 1,405,136; Jan. 31.
- Auto chain lock. F. J. Hakkers. No. 1,434,115; Oct. 31.
- Auto chassis, Means for supporting bumpers on. F. J. Laher. No. 1,431,737; Oct. 10.
- Auto control, Safety. A. Minnick. No. 1,418,601; June 6.
- Auto direction signal. P. B. Moeller. No. 1,405,314; Jan. 31.
- Auto dress. M. R. Buckley. No. 1,421,162; June 27.
- Auto dump body. H. G. Frazier. No. 1,428,368; Sept. 5.
- Auto fender. S. G. Fitz Simons. No. 1,430,224; Sept. 26.
- Auto gear-shift and brake levers, Electric switch for. W. S. La Londe. No. 1,436,507; Nov. 21.
- Auto heel rest. F. Philipps. No. 1,418,968; June 6.
- Auto hoist. F. E. Drake. No. 1,413,526; Apr. 18.
- Auto jack. W. J. Thomas. No. 1,413,143; Apr. 18.
- Auto jack and wheel puller, Combined. W. Holmes. No. 1,412,180; Apr. 11.
- Auto lights, Electric time switch for. B. B. Tregoe and J. D. Carroll. No. 1,418,748; June 6.
- Auto lock. B. Byers. No. 1,421,401; July 4.
- Auto lock. F. M. Christensen. No. 1,438,169; Dec. 12.
- Auto lock and alarm switch. W. F. Tanner. No. 1,437,998; Dec. 5.
- Auto luggage carrier. E. Sheer. No. 1,429,112; Sept. 12.
- Auto mirror, Adjustable. F. W. Rees. No. 1,420,145; June 20.
- Auto plate and crank holder. G. McGarry. No. 1,415,594; May 9.
- Auto power-transmitting jack. N. Stanbrough. No. 1,432,363; Oct. 17.
- Auto register. J. B. Francisco. No. 1,438,591; Dec. 12.
- Auto seat, Convertible. J. Finger. No. 1,402,854; Jan. 10.
- Auto-seat ventilator back. H. A. Beynon. No. 1,412,037; Apr. 11.
- Auto signal. F. A. Forsberg. No. 1,430,972; Oct. 3.
- Auto signal. T. M. Hoskins. No. 1,403,782; Jan. 17.
- Auto signal. L. M. Kolb. No. 1,417,388; May 23.
- Auto signal. O. Schwimmer. No. 1,439,130; Dec. 19.
- Auto signal. M. O. Smith and E. A. Mahannah. No. 1,407,444; Feb. 21.
- Auto signal. A. M. Stanley. No. 1,406,694; Feb. 14.
- Auto signaling device. E. G. Brugler. No. 1,406,532; Feb. 14.
- Auto skid-chain hook. A. H. Rankin. No. 1,427,848; Sept. 5.
- Auto sleigh attachment. O. Bufe. No. 1,425,835; Aug. 15.
- Auto step. W. H. Heaton. No. 1,428,030; Sept. 5.
- Auto swing. R. D. Wilson. No. 1,402,127; Jan. 3.
- Auto theft alarm. J. L. Crosser. No. 1,424,993; Aug. 8.
- Auto theft protection. A. Kendecky. No. 1,423,432; July 18.
- Auto theft signal. R. J. Ochs and C. E. Hodes. No. 1,408,133; Feb. 28.
- Auto theft signal. J. H. Southard. No. 1,426,119; Aug. 15.
- Auto towing and steering appliance. C. W. Davis. No. 1,414,552; May 2.
- Auto vehicle brake. H. C. Strong. No. 1,433,491; Oct. 24.
- Auto vehicles, Clutch-pedal lock for. A. F. Laney. No. 1,439,111; Dec. 19.
- Auto wheel attachment. W. Greenslade. No. 1,414,735; May 2.
- Auto-wing air deflector. J. L. Swineford and T. J. Morgan. No. 1,437,276; Nov. 28.
- Autos and other vehicles, Signal for. J. O'Donnell, jr. No. 1,434,142; Oct. 31.
- Autos, etc., Bumper or fender for. W. H. Rapeport. No. 1,436,682; Nov. 28.
- Autos, Rear-light signal for. W. B. Causon. No. 1,402,479; Jan. 3.
- Autobed. J. Rietschel. No. 1,404,145; Jan. 17.
- Autoclave. O. S. Sleeper. No. 1,426,930; Aug. 22.
- Autographic register. H. L. Roberts. No. 1,422,132; July 11.
- Autographic register. H. L. Roberts. No. 1,424,946; Aug. 8.
- Autographic register. H. L. Roberts. No. 1,433,152; Oct. 24.
- Autographic register. J. Q. Sherman. Nos. 1,416,129-30; May 16.
- Autographic register. J. Q. Sherman and A. W. Metzner. No. 1,439,135; Dec. 19.
- Autographic register. F. G. White. No. 1,407,907; Feb. 28.
- Autographic register. C. E. Wyrick. No. 1,413,647; Apr. 25.
- Autographic-registers, Handle stop for. M. C. Stern and G. J. Neth. No. 1,432,423; Oct. 17.
- Autohemic therapy potentizer. T. H. Warren. No. 1,417,219; May 23.
- Automatic alarm. S. Hickey. No. 1,415,874; May 16.
- Automatic alarm. J. Swanberg. No. 1,415,207; May 9.
- Automatic carrier. G. A. and F. P. Rahmeyer. No. 1,405,718; Feb. 7.
- Automatic furnace. L. Garrison. No. 1,420,091; June 20.
- Automatic gate. T. E. Harrington. No. 1,426,062; Aug. 15.
- Automatic gate. M. Todoruk. No. 1,405,464; Feb. 7.
- Automatic lock. S. Izzo. No. 1,417,529; May 30.
- Automatic regulator. E. Grossenbacher. No. 1,435,921; Nov. 21.
- Automatic-release coupling. G. W. Howden. No. 1,415,646; May 9.
- Automatic release coupling. E. J. Randall. No. 1,409,776; Mar. 14.
- Automatic safety adjustable coupling. F. M. Rutten and A. R. Hilsabeck. No. 1,436,199; Nov. 21.
- Automatic slack adjuster. N. J. Sauvage. No. 1,416,980; May 23.
- Automatic sprinkler. H. H. Duley. No. 1,412,172; Apr. 11.
- Automatic stabilizing device. A. Trapp. No. 1,416,911; May 23.
- Automatic switch. J. Kenner. No. 1,430,510; Sept. 26.
- Automatic switch. R. Labbe. No. 1,413,740; Apr. 25.
- Automatic take-up device. F. Jerdone, Jr. No. 1,413,535; Apr. 18.
- Automatic transmission mechanism. C. H. Gill. No. 1,432,684; Oct. 17.
- Automatic trap. S. Hampton. No. 1,432,550; Oct. 17.
- Automatic wrench. H. Johnston. No. 1,428,546; Sept. 12.
- Automatically-adjustable wrench. I. J. Galbraith. No. 1,421,206; June 27.
- Automaton. C. L. Mack. No. 1,410,408; Mar. 21.
- Automatons, Motion device for. F. Gorgellino. No. 1,422,436; July 11.
- Automobile. F. E. Johnson. No. 1,424,412; Aug. 1.
- Automobile. S. Kalma. No. 1,419,266; June 13.
- Automobile. F. Loeffler. No. 1,439,011; Dec. 19.
- Automobile. W. L. Mizgett. No. 1,409,749; Mar. 14.
- Automobile. W. F. Schoenhard. No. 1,428,713; Sept. 12.
- Automobile. H. T. Thomas. No. 1,438,195; Dec. 12.
- Automobile accelerator. J. Brautigam. No. 1,430,003; Sept. 26.
- Automobile accelerators, Foot rest for use in connection with. F. H. Stanwood. No. 1,410,351; Mar. 21.
- Automobile accessories, Fastening means for. M. J.-B. Barbarou. No. 1,424,611; Aug. 1.
- Automobile accessory. G. D. Orr. No. 1,423,730; July 25.
- Automobile accessory. T. E. Sanderson. No. 1,424,382; Aug. 1.
- Automobile accessory. C. W. Schoppe. No. 1,417,416; May 23.
- Automobile air deflector. W. W. Cole. No. 1,418,430; June 6.
- Automobile alarm. W. A. Taylor. No. 1,417,217; May 23.
- Automobile alarm. S. L. Thompson. No. 1,417,700; May 30.
- Automobile alarm. C. D. Vollmer and M. Laskowitz. No. 1,435,675; Nov. 14.
- Automobile and carriage jack. G. R. Barker. No. 1,424,147; Aug. 1.
- Automobile and other doors, Latch for. J. T. Molloy and H. Hempe. No. 1,419,639; June 13.
- Automobile and other wheels, Rim and tire for. I. Benjamins. No. 1,422,818; July 18.
- Automobile and vehicle locking device. T. J. Willett. No. 1,416,393; May 16.
- Automobile antirattling device. H. C. Brinkerhoff. No. 1,420,077; June 20.
- Automobile appliance. T. Ramage. No. 1,424,942; Aug. 8.
- Automobile attaching bracket. W. R. McGowen. No. 1,411,051; Mar. 28.
- Automobile attachment. J. W. Leech. No. 1,427,749; Aug. 29.
- Automobile attachment. G. Loforese. No. 1,427,080; Aug. 22.
- Automobile attachment. P. J. Ridenour. No. 1,424,679; Aug. 1.
- Automobile attachment. J. Stutika. No. 1,405,352; Jan. 31.
- Automobile automatic timer. G. M. Brewer. No. 1,434,196; Oct. 31.
- Automobile axle and suspension therefor. H. Mercier. No. 1,440,022; Dec. 26.
- Automobile axle reinforcement. B. U. S. Gyllin. No. 1,431,302; Oct. 10.
- Automobile axles, Tool for removing perches from. H. E. Privett. No. 1,440,102; Dec. 26.
- Automobile batteries and generators, Protective device for. F. C. Wassman and E. Kendall. No. 1,428,727; Sept. 12.

Alphabetical list of inventions—Continued.

- Automobile bed, H. Wise. No. 1,420,800; June 27.
 Automobile bed, folding. C. C. Starr. No. 1,415,727; May 9.
 Automobile block. C. E. Schaudies. No. 1,403,712; Jan. 17.
 Automobile bodies and other structures, Jig for electrically welding the parts of. J. Ledwinka. No. 1,415,588; May 9.
 Automobile bodies to the chassis. Means for connecting. A. C. Desler. No. 1,422,086; July 11.
 Automobile body. W. F. Kincaid. No. 1,421,783; July 4.
 Automobile body. H. C. Maise. No. 1,409,962; Mar. 21.
 Automobile body. L. K. Snell. No. 1,439,919; Dec. 26.
 Automobile body. A. T. Sturt. No. 1,406,240; Feb. 14.
 Automobile body. J. Tavelli. No. 1,410,139; Mar. 21.
 Automobile body and making same. W. L. Fry. No. 1,405,680; Feb. 7.
 Automobile body brace. T. L. Miller. No. 1,433,143; Oct. 24.
 Automobile body brace. F. M. Stoll. No. 1,427,763; Aug. 29.
 Automobile body construction. J. L. Bancroft. No. 1,427,894; Sept. 5.
 Automobile body construction, Convertible. L. Bresin. No. 1,413,704; Apr. 25.
 Automobile body, Convertible. B. E. Carrm. No. 1,405,486; Feb. 7.
 Automobile body, Convertible. E. H. Goodrich. No. 1,437,751; Dec. 5.
 Automobile body, Convertible. J. W. and E. Kippen. No. 1,410,192; Mar. 21.
 Automobile body, Convertible. W. L. Kissel and J. F. Werner. No. 1,438,382; Dec. 12.
 Automobile body, Convertible. J. J. McGuire. No. 1,433,466; Oct. 24.
 Automobile body curtain. L. J. Buob. No. 1,439,142; Dec. 19.
 Automobile body heater. H. C. Rogers. No. 1,428,299; Sept. 5.
 Automobile body structure. J. Ledwinka. No. 1,428,105; Sept. 5.
 Automobile brake. M. J. Robinson. No. 1,432,414; Oct. 17.
 Automobile brake attachment. F. R. Peterson. No. 1,436,903; Nov. 28.
 Automobile-brake mechanism. J. W. Millard. No. 1,431,975; Oct. 17.
 Automobile brake-shoe construction, Pressed-steel. W. Q. Howell and C. B. Rader. No. 1,417,069; May 23.
 Automobile breather, Dustless. W. Reusch, H. Altheide, and P. R. Reusch. No. 1,437,360; Nov. 28.
 Automobile buffer. G. A. Lyon. Nos. 1,423,571-2; July 25.
 Automobile buffer. G. A. Lyon. No. 1,436,992; Nov. 28.
 Automobile buffer. G. A. Lyon. No. 1,436,995; Nov. 28.
 Automobile buffer attacher. G. A. Lyon. No. 1,410,938; Mar. 28.
 Automobile buffer attacher. G. A. Lyon. No. 1,418,946; June 6.
 Automobile buffer-attaching device. G. A. Lyon. No. 1,437,601; Dec. 5.
 Automobile bumper. J. A. Bilterman and W. J. Smith. No. 1,435,100; Nov. 7.
 Automobile bumper. W. E. Dunston. No. 1,432,165; Oct. 17.
 Automobile bumper. H. W. Dyer. No. 1,412,017; Apr. 11.
 Automobile bumper. R. B. Fagool. No. 1,427,275; Aug. 29.
 Automobile bumper. H. L. French. No. 1,404,517; Jan. 24.
 Automobile bumper. W. J. Grotenhuis. Nos. 1,413,220-1; Apr. 18.
 Automobile bumper. C. H. Hathaway and W. A. Starck. No. 1,404,607; Jan. 24.
 Automobile bumper. F. E. Hutchings. No. 1,440,081; Dec. 26.
 Automobile bumper. E. R. Jones. No. 1,416,834; May 23.
 Automobile bumper. V. Krefl. No. 1,416,358; May 16.
 Automobile bumper. N. MacInnes. No. 1,422,103; July 11.
 Automobile bumper. W. R. McGowen. No. 1,411,052; Mar. 28.
 Automobile bumper. A. L. McGregor. No. 1,439,477; Dec. 19.
 Automobile bumper. T. Miyagi. No. 1,412,212; Apr. 11.
 Automobile bumper. L. A. Navoni. No. 1,414,300; Apr. 25.
 Automobile bumper. R. T. Newton. No. 1,432,723; Oct. 17.
 Automobile bumper. C. C. F. Nieschang. No. 1,410,343; Mar. 21.
 Automobile bumper. R. B. Older. No. 1,425,272; Aug. 8.
 Automobile bumper. S. H. Shaw. No. 1,431,264; Oct. 10.
 Automobile bumper. J. W. Simmons. No. 1,433,661; Oct. 31.
 Automobile bumper. L. F. Stafford. No. 1,405,456; Feb. 7.
 Automobile bumper. L. F. Stafford. No. 1,414,382; May 2.
 Automobile bumper. F. Tomasek. No. 1,416,426; May 16.
 Automobile bumper. F. A. Wernig. No. 1,410,353; Mar. 21.
 Automobile bumper. F. A. Wernig. No. 1,424,699; Aug. 1.
 Automobile bumper. W. E. Williams. No. 1,423,894; July 25.
 Automobile bumper. W. E. Williams. No. 1,427,928; Sept. 5.
 Automobile bumper and wheel fender. F. Coletta. No. 1,407,637; Feb. 21.
 Automobile bumper and wheel lock, Combined. L. Bednar. Nos. 1,432,656-7; Oct. 17.
 Automobile bumper-attaching hanger. W. G. Pancoast and W. J. Grotenhuis. No. 1,423,874; July 25.
 Automobile bumper-attaching hanger. W. G. Pancoast and W. J. Grotenhuis. No. 1,431,838; Oct. 10.
 Automobile bumper bracket. W. G. Cox. No. 1,411,955; Apr. 4.
 Automobile bumper bracket. W. G. Cox. No. 1,429,410; Sept. 19.
 Automobile bumper wing. J. Hoffman. No. 1,416,468; May 16.
 Automobile bumpers, Attaching device for. I. D. Perry. No. 1,418,395; June 6.
 Automobile bumpers, Attachment bracket for. W. G. Cox. No. 1,411,956; Apr. 4.
 Automobile bumpers, Auxiliary impact unit for. S. H. Shaw. No. 1,431,265; Oct. 10.
 Automobile bumpers or fenders, Universal bracket for. G. S. MacLeod. No. 1,407,431; Feb. 21.
 Automobile burglar alarm. J. L. Gettinger. No. 1,411,246; Mar. 28.
 Automobile camp trailer. N. R. Moore. No. 1,435,251; Nov. 14.
 Automobile canopy. A. W. Mueller. No. 1,424,421; Aug. 1.
 Automobile carrier. H. L. Stacy. No. 1,437,477; Dec. 5.
 Automobile chain. J. C. Edwards. No. 1,429,853; Sept. 19.
 Automobile chains, Attachment for. C. M. Cummings. No. 1,410,170; Mar. 21.
 Automobile chassis. H. N. Garson. No. 1,414,123; Apr. 25.
 Automobile chassis. H. N. and T. N. Garson. No. 1,438,484; Dec. 12.
 Automobile, Clutch-pedal control for. M. Wagner. No. 1,418,340; June 6.
 Automobile combination jack. J. H. Thomas. No. 1,414,903; May 2.
 Automobile construction and attachment. W. W. Whitton. No. 1,403,881; Jan. 17.
 Automobile control pedal. W. O. Bischoff. No. 1,432,379; Oct. 17.
 Automobile controlling device. J. Blackburn. No. 1,418,278; June 6.
 Automobile, Coupling device for power-transmission mechanism and brake apparatus for an. M. Watanabe. No. 1,406,119; Feb. 7.
 Automobile cradle. A. Jakovleff. No. 1,425,859; Aug. 15.
 Automobile cradle. A. Jakovleff. No. 1,436,808; Nov. 28.
 Automobile crank cases, Guard for. J. J. and E. J. Freiburger. No. 1,412,049; Apr. 11.
 Automobile crank shafts, Machine for regrounding. F. H. Petersen and J. H. Darling. No. 1,411,181; Mar. 28.
 Automobile curtain. G. E. Bishop. No. 1,425,443; Aug. 8.
 Automobile curtain. E. R. Jaeger. No. 1,409,451; Mar. 14.
 Automobile curtain case. P. S. Kern, jr. No. 1,432,562; Oct. 17.
 Automobile curtain light, Metal-faced. G. and F. H. Whomes. No. 1,427,250; Aug. 29.
 Automobile curtain support. G. J. Konicek. No. 1,420,710; June 27.
 Automobile curtains, Carrying rack for. J. Herrmann. No. 1,420,699; June 27.
 Automobile curtain window. L. C. Nelson and J. C. Polan. (Reissue.) No. 15,508; Dec. 19.
 Automobile decking. F. H. Thompson and E. Holmes. No. 1,421,747; July 4.
 Automobile decking device. A. Copony. No. 1,433,261; Oct. 24.
 Automobile decking, System of. G. M. Graham. No. 1,428,842; Sept. 12.
 Automobile design and construction. E. T. Turner. No. 1,407,048; Feb. 21.
 Automobile detachable armrest. T. H. Decker. No. 1,420,023; June 20.
 Automobile direction indicator. J. B. Blair. No. 1,424,070; July 25.
 Automobile direction indicator. G. Marsile. No. 1,419,069; June 6.
 Automobile direction indicator. R. G. May. No. 1,409,881; Mar. 14.
 Automobile direction indicator. W. A. Perkins. No. 1,412,195; Apr. 11.
 Automobile direction indicator. J. H. Weber. No. 1,432,000; Oct. 17.
 Automobile direction indicators, Switch for. J. E. Holmgren. No. 1,426,193; Aug. 15.
 Automobile direction signal. S. D. Gossard. No. 1,427,102; Aug. 29.
 Automobile direction signal. H. M. Moffett. No. 1,408,377; Feb. 28.
 Automobile direction signal. T. S. Opheim. No. 1,423,249; July 18.
 Automobile direction signal. R. H. Quackenbush. No. 1,438,552; Dec. 12.
 Automobile direction signal. E. K. Ward and G. F. Boucher. No. 1,405,699; Feb. 7.

- Automobile direction signal. O. M. West. No. 1,423,379; July 13.
- Automobile disk wheels, Hub-attachment means for. A. L. Putnam. No. 1,438,401; Dec. 12.
- Automobile door. E. L. Lanfair. No. 1,416,651; May 16.
- Automobile door, Canopied. P. A. Fischer. No. 1,425,954; Aug. 15.
- Automobile door hinge. H. J. Mastenbrook. No. 1,427,308; Aug. 29.
- Automobile door latch. M. M. Mueller. No. 1,435,971; Nov. 21.
- Automobile door lock. B. E. Taylor. No. 1,417,423; May 23.
- Automobile doors and the like, Curtain-supporting device for. C. C. Blackmore. No. 1,437,389; Dec. 5.
- Automobile doors, Buffer for. J. Ledwinka. No. 1,439,007; Dec. 19.
- Automobile doors, Latch for. B. E. Taylor. No. 1,425,552; Aug. 15.
- Automobile door-supported clean-up-kit-holding case. J. E. Robison. No. 1,411,377; Apr. 4.
- Automobile draft device. L. Scopel. No. 1,410,412; Mar. 21.
- Automobile drivers, Protective covering for. M. L. Rowe. No. 1,424,215; Aug. 1.
- Automobile driver's seat, Ventilated. D. Benson and G. K. Bruce. No. 1,422,915; July 18.
- Automobile driving axle. H. W. Alden. No. 1,434,578; Nov. 7.
- Automobile driving axles, Differential gearing for. W. A. Moir. No. 1,407,703; Feb. 28.
- Automobile duplex-bar bumper. W. G. Cox. No. 1,412,554; Apr. 11.
- Automobile electric hood heater. H. F. Brown. No. 1,407,725; Feb. 28.
- Automobile elevator. P. L. Schuyler and C. M. Snow. No. 1,424,186; Aug. 1.
- Automobile emergency tank. W. L. Washington. No. 1,421,050; June 27.
- Automobile engine-hood cover. J. A. and K. M. Balactar. No. 1,424,192; Aug. 1.
- Automobile engine-hood support. G. P. Lacher. No. 1,439,474; Dec. 19.
- Automobile engine primer. T. J. McCarthy. No. 1,418,591; June 6.
- Automobile engine starter. H. L. Meeder. No. 1,418,449; June 6.
- Automobile engine suspension. C. A. Tilt. No. 1,410,779; Mar. 28.
- Automobile engines, Auxiliary supporting and positioning means for. J. C. Theberath. No. 1,437,621; Dec. 5.
- Automobile engines, Heating device for the water-circulation systems of. R. W. Wiederwax. No. 1,412,325; Apr. 11.
- Automobile engines, Vacuum device for. A. D. Parrish. No. 1,412,957; Apr. 18.
- Automobile extractor. W. F. Hiesermann. No. 1,410,918; Mar. 28.
- Automobile extricating attachment. A. van Leeuwen. No. 1,429,305; Sept. 19.
- Automobile extricating device. J. A. Buron, jr. No. 1,424,616; Aug. 1.
- Automobile extricator. C. W. Metcalf. No. 1,432,077; Oct. 17.
- Automobile fan. E. H. Arnold. No. 1,430,276; Sept. 26.
- Automobile fender. C. L. Batchelor. No. 1,414,930; May 2.
- Automobile fender. H. Caplan. No. 1,423,187; July 18.
- Automobile fender. H. W. Dyer. No. 1,406,828; Feb. 14.
- Automobile fender. C. W. Ervin. No. 1,435,383; Nov. 14.
- Automobile fender. P. Fedorow and J. Korpan. No. 1,438,029; Dec. 5.
- Automobile fender. S. G. Fitz Simons. No. 1,426,371; Aug. 22.
- Automobile fender. S. Hatashita. No. 1,438,177; Dec. 12.
- Automobile fender. M. Kovach. No. 1,402,502; Jan. 3.
- Automobile fender. F. R. McCallin. No. 1,436,511; Nov. 21.
- Automobile fender. S. H. Sumbulian. No. 1,422,388; July 11.
- Automobile fender. C. Weinberg. No. 1,427,878; Sept. 5.
- Automobile fender-clamp guard. C. D. Baker. No. 1,439,599; Dec. 19.
- Automobile fender-operating mechanism. G. G. Ford. No. 1,437,098; Nov. 28.
- Automobile fenders, Tool for removing dents from. C. M. Alger. No. 1,403,887; Jan. 17.
- Automobile finder, Automatic. W. Lamberti. No. 1,408,362; Feb. 28.
- Automobile firearm. J. C. White. No. 1,410,354; Mar. 21.
- Automobile flag support. A. G. Fitz Gerald. No. 1,413,267; Apr. 18.
- Automobile floor-loading buck. E. S. Evans. No. 1,439,663; Dec. 19.
- Automobile footboards, Safety lock for. A. J. Dubee. No. 1,426,282; Aug. 15.
- Automobile frame. A. Melidona. No. 1,423,240; July 18.
- Automobile frame. C. E. Weaver. No. 1,435,354; Nov. 14.
- Automobile frog. T. F. Christensen. No. 1,405,567; Feb. 7.
- Automobile fuel tanks, Reserve-supply device for. W. H. Muzzy. No. 1,407,798; Feb. 28.
- Automobile, furniture, and woodwork polish. E. Hardy. No. 1,404,367; Jan. 24.
- Automobile, Gasoline-electric. F. G. Le Merle, M. J. Uhlman, and J. E. Barry. No. 1,423,124; July 13.
- Automobile gasoline tank. E. R. Gilmore. No. 1,435,001; Nov. 7.
- Automobile guard. V. Fernández. No. 1,421,437; July 4.
- Automobile headlamp. W. F. Little. No. 1,415,373; May 9.
- Automobile headlight. T. W. Post. No. 1,405,717; Feb. 7.
- Automobile headlight. G. A. Wendt. No. 1,403,528; Jan. 17.
- Automobile headlight, Dirigible. P. A. Asbjeld. No. 1,406,955; Feb. 14.
- Automobile heater. J. Bassett, G. E. D. Searle, and G. Davidson. No. 1,434,423; Nov. 7.
- Automobile heater. W. C. Cottongim and O. F. Kirtley. No. 1,410,552; Mar. 28.
- Automobile heater. J. B. Francisco. No. 1,429,332; Sept. 19.
- Automobile heater. S. Ishimatsu. No. 1,427,475; Aug. 29.
- Automobile heater. W. Jean. No. 1,425,483; Aug. 8.
- Automobile heater. W. A. Kinney. No. 1,421,255; June 27.
- Automobile heater. M. Zwickl. No. 1,420,301; June 20.
- Automobile hoist. T. A. Martin. No. 1,428,383; Sept. 5.
- Automobile hood. R. E. Robinson. No. 1,422,305; July 11.
- Automobile hood. L. A. Young. No. 1,411,985; Apr. 4.
- Automobile hood clamp. J. A. Huth. No. 1,425,773; Aug. 15.
- Automobile hood lock. J. L. Aurand. No. 1,434,277; Oct. 31.
- Automobile hoods, Automatic fastening and releasing device for. E. W. H. Robertson. No. 1,402,964; Jan. 10.
- Automobile hoods, Closure member for. M. C. Dart. No. 1,434,487; Nov. 7.
- Automobile hoods, Fastening device for. F. Mathews. No. 1,423,773; July 25.
- Automobile hoods, Supporting bar and hinge construction for. J. B. Covi. No. 1,421,068; June 27.
- Automobile horn. J. Atkocaitis. No. 1,433,593; Oct. 31.
- Automobile horn. C. N. Dalbey. No. 1,427,072; Aug. 22.
- Automobile horn. G. J. Seiss. No. 1,434,506; Nov. 7.
- Automobile hotel. L. L. Moe. (Reissue.) No. 15,333; Apr. 11.
- Automobile hub windlass. J. H. Doak. No. 1,413,523; Apr. 18.
- Automobile-identifying device. C. W. Zint. No. 1,402,702; Jan. 3.
- Automobile ignition lock. G. W. Turner. No. 1,406,784; Feb. 14.
- Automobile inclosure. G. E. Bishop. No. 1,425,442; Aug. 8.
- Automobile inclosure. G. E. Bishop. Nos. 1,425,444-5; Aug. 8.
- Automobile inclosure. G. E. Holmes, J. M. Bostrom, and A. G. Bostrom. No. 1,431,230; Oct. 10.
- Automobile indicator. F. B. Moore. No. 1,419,467; June 13.
- Automobile instrument light. W. J. Callahan. No. 1,411,266; Apr. 4.
- Automobile intention-signaling device. E. T. Gibson. No. 1,422,960; July 18.
- Automobile jack. W. H. Appleman. No. 1,433,867; Oct. 31.
- Automobile jack. E. A. Howe. No. 1,426,068; Aug. 15.
- Automobile jack. G. J. Prestes. No. 1,403,976; Jan. 17.
- Automobile jack. S. J. Rice. No. 1,425,134; Aug. 8.
- Automobile jack. O. E. Stone. No. 1,435,884; Nov. 14.
- Automobile jack. A. L. Trudeau and L. J. Leusmeyer. No. 1,402,690; Jan. 3.
- Automobile levers, Slot guard for. C. H. Gaulke. No. 1,434,813; Nov. 7.
- Automobile license-card holder. J. M. Connolly. No. 1,440,061; Dec. 26.
- Automobile license plate. P. B. Giles. No. 1,426,856; Aug. 22.
- Automobile license tag. E. L. Caraway. No. 1,410,992; Mar. 28.
- Automobile lift. Z. V. Kendrick. No. 1,436,766; Nov. 28.
- Automobile lifting frame. F. Davis. No. 1,432,159; Oct. 17.
- Automobile light reflector. A. C. Arnett. (Reissue.) No. 15,473; Oct. 24.
- Automobile lighting system. F. H. Patten. No. 1,404,890; Jan. 31.
- Automobile lights, Shade for. H. H. Higert. No. 1,403,496; Jan. 17.
- Automobile lights, Supporting means for. J. J. Smith. No. 1,431,267; Oct. 10.
- Automobile lock. J. O. Akers. No. 1,408,237; Feb. 28.
- Automobile lock. C. C. Blackmore. No. 1,437,390; Dec. 5.
- Automobile lock. V. Bouczyk. No. 1,412,605; Apr. 11.
- Automobile lock. A. Chmielewski. No. 1,414,255; Apr. 25.
- Automobile lock. T. J. Coe. No. 1,419,227; June 13.
- Automobile lock. R. D. Currie. No. 1,439,150; Dec. 19.
- Automobile lock. J. Di Napoli. No. 1,402,150; Jan. 3.
- Automobile lock. S. H. Dorsey. No. 1,417,661; May 30.
- Automobile lock. E. Faison. No. 1,401,971; Jan. 3.
- Automobile lock. F. M. Furber. No. 1,429,334; Sept. 19.
- Automobile lock. J. C. Gaynor. No. 1,436,585; Nov. 21.
- Automobile lock. C. Gerben. No. 1,433,269; Oct. 24.
- Automobile lock. C. Gerben. No. 1,433,367; Oct. 24.

Alphabetical list of inventions—Continued.

- Automobile lock. A. J. Gray and W. Hebern. No. 1,413,022; Apr. 18.
- Automobile lock. W. T. Hall. No. 1,428,089; Sept. 5.
- Automobile lock. R. B. Hastings. No. 1,406,854; Feb. 14.
- Automobile lock. O. S. Hershey. No. 1,417,603; May 30.
- Automobile lock. O. S. Hershey. No. 1,433,548; Oct. 31.
- Automobile lock. M. Hogg. No. 1,411,728; Apr. 4.
- Automobile lock. J. R. Hunter. No. 1,408,806; Mar. 7.
- Automobile lock. J. Ingraham and E. E. Norgaard. No. 1,412,004; Apr. 4.
- Automobile lock. H. A. James, Jr. No. 1,402,864; Jan. 10.
- Automobile lock. C. L. Johnson. No. 1,414,023; Apr. 25.
- Automobile lock. J. L. Jones. No. 1,428,236; Sept. 5.
- Automobile lock. G. Koch. No. 1,408,518; Mar. 7.
- Automobile lock. H. W. Lampman. No. 1,430,239; Sept. 26.
- Automobile lock. F. E. Large. No. 1,436,966; Nov. 28.
- Automobile lock. A. F. Lewis. No. 1,421,853; June 27.
- Automobile lock. B. Liebowitz and J. Balsam. No. 1,429,599; Sept. 19.
- Automobile lock. J. J. Mahoney. No. 1,438,656; Dec. 12.
- Automobile lock. G. R. McKeage. No. 1,414,991; May 2.
- Automobile lock. O. F. Mehlin. No. 1,420,205; June 20.
- Automobile lock. S. G. Miller. No. 1,423,955; July 25.
- Automobile lock. J. A. Murphey. No. 1,425,408; Aug. 8.
- Automobile lock. C. F. Murray. No. 1,422,221; July 11.
- Automobile lock. E. T. Newton. No. 1,430,463; Sept. 26.
- Automobile lock. J. M. Palmer. No. 1,426,666; Aug. 22.
- Automobile lock. C. Pohl. No. 1,402,955; Jan. 10.
- Automobile lock. W. S. Portlock, sr. No. 1,427,323; Aug. 29.
- Automobile lock. W. A. Rideout. No. 1,427,912; Sept. 5.
- Automobile lock. C. H. Rust. No. 1,424,262; Aug. 1.
- Automobile lock. D. R. Schnaars. No. 1,434,156; Oct. 31.
- Automobile lock. W. Seiler. Nos. 1,410,609-10; Mar. 28.
- Automobile lock. D. W. Simmons. No. 1,435,560; Nov. 14.
- Automobile lock. D. C. Smith. No. 1,423,269; July 18.
- Automobile lock. J. Sokolov. No. 1,423,691; July 25.
- Automobile lock. J. Sokolov and E. F. Wieneke. No. 1,437,160; Nov. 28.
- Automobile lock. F. Staggs and M. Reynolds. No. 1,430,472; Sept. 26.
- Automobile lock. W. C. Thield. No. 1,427,654; Aug. 29.
- Automobile lock. H. T. Thomas. No. 1,428,720; Sept. 12.
- Automobile lock. A. E. Watson. No. 1,434,515; Nov. 7.
- Automobile lock and switch. J. E. Erickson. No. 1,408,996; Mar. 7.
- Automobile lock system. T. R. Cornick. No. 1,435,809; Nov. 14.
- Automobile locking device. J. Chochol. No. 1,440,278; Dec. 26.
- Automobile locking device. W. P. Faulkner. No. 1,424,454; Aug. 1.
- Automobile locking device. J. P. Geraghty. No. 1,421,684; July 4.
- Automobile locking device. A. W. McWilliams. No. 1,406,670; Feb. 14.
- Automobile locking device. J. F. Rose. No. 1,430,325; Sept. 26.
- Automobile locking device. E. C. Russell. No. 1,437,020; Nov. 28.
- Automobile locking device. J. W. Snyder. No. 1,408,911; Mar. 7.
- Automobile locking device. G. W. Wright and T. J. Pension. No. 1,429,181; Sept. 12.
- Automobile lubricating device. C. V. Nord. No. 1,422,608; July 11.
- Automobile mechanics, Headrest for. W. H. Fromhart. No. 1,431,110; Oct. 3.
- Automobile mirror. B. Jassen. No. 1,410,186; Mar. 21.
- Automobile mud-guard. F. P. Francis. No. 1,412,306; Apr. 11.
- Automobile mud shoe. H. A. and W. H. Muller. No. 1,410,072; Mar. 21.
- Automobile ornament. M. E. Comiskey. No. 1,435,106; Nov. 7.
- Automobile or other vehicles, Fender attachment for. W. H. Rapeport. No. 1,428,116; Sept. 5.
- Automobile or side tops, Gypsy or side curtain for. S. G. Spurling. No. 1,417,866; May 30.
- Automobile or truck fender. Z. Isreal. No. 1,431,117; Oct. 3.
- Automobile package carrier. L. J. Rouchleau. No. 1,433,233; Oct. 24.
- Automobile pedal lock. I. B. Koons. No. 1,408,357; Feb. 28.
- Automobile power attachment. T. J. Charon. No. 1,424,281; Aug. 1.
- Automobile power industrially, Means for using. R. F. Bosard. No. 1,407,513; Feb. 21.
- Automobile producer-gas plant. J. W. Parker. No. 1,420,570; June 20.
- Automobile protection device. G. Colbourne. No. 1,432,535; Oct. 17.
- Automobile puller and power mechanism. J. T. Montgomery. No. 1,406,752; Feb. 14.
- Automobile radiator. A. P. Andersen. No. 1,425,933; Aug. 15.
- Automobile radiator. J. B. Beam. Nos. 1,409,272-3; Mar. 14.
- Automobile radiator. J. B. Beam. No. 1,412,332; Apr. 11.
- Automobile radiator. C. A. Halsten. No. 1,432,850; Oct. 24.
- Automobile radiator. J. Haydusek and M. Husarcik. No. 1,428,779; Sept. 12.
- Automobile radiator. H. Jaffe. No. 1,438,310; Dec. 12.
- Automobile radiator. T. J. Kehoe. No. 1,416,837; May 23.
- Automobile radiator. T. F. Payne. No. 1,428,901; Sept. 12.
- Automobile radiator. C. E. Reno. No. 1,431,043; Oct. 3.
- Automobile radiator. F. T. Scott. No. 1,409,791; Mar. 14.
- Automobile radiator. R. R. Swaney. No. 1,417,783; May 30.
- Automobile radiator. C. Wade-Dalton. No. 1,409,321; Mar. 14.
- Automobile radiator alarm. K. Keller. No. 1,417,332; May 23.
- Automobile radiator attachment. J. T. Bluff. No. 1,410,363; Mar. 21.
- Automobile-radiator attachment. H. A. Dillard. No. 1,436,580; Nov. 21.
- Automobile-radiator attachment. C. E. Spaid. No. 1,418,334; June 6.
- Automobile-radiator condenser. F. J. Gustine. No. 1,428,433; Sept. 5.
- Automobile radiator cover. J. W. Parks. No. 1,418,393; June 6.
- Automobile radiator indicators, Signal and illuminator for. H. A. Tuckey. No. 1,431,065; Oct. 3.
- Automobile-radiator shield. E. Middaugh. No. 1,404,786; Jan. 31.
- Automobile radiator shield. V. G. Paulter. No. 1,431,483; Oct. 10.
- Automobile radiator shutters, Supporting and actuating means for. A. P. Wolfe. No. 1,423,982; July 25.
- Automobile radiator support. C. E. Nolting. No. 1,432,725; Oct. 17.
- Automobile radiator water heater. E. M. Rosenbluth. No. 1,434,153; Oct. 31.
- Automobile radiators, Antifreezing attachment for. J. Maddox. No. 1,437,113; Nov. 28.
- Automobile radiators, Apparatus for indicating the amount of water in. C. Ford. No. 1,421,930; July 4.
- Automobile radiators, Condenser for. C. A. Howell. No. 1,439,242; Dec. 19.
- Automobile radiators, Condenser for. F. P. Livingston. No. 1,431,965; Oct. 17.
- Automobile radiators, Heater for. R. B. Strong. No. 1,436,060; Nov. 21.
- Automobile radiators, Shutter for. J. E. Messenger. No. 1,428,647; Sept. 12.
- Automobile radiators, Vent for. A. J. Pasco. No. 1,435,331; Nov. 14.
- Automobile radiators, Water gauge for. T. I. Taylor. No. 1,421,615; July 4.
- Automobile radius rod. O. E. Watson. No. 1,418,759; June 6.
- Automobile rear signal. A. Davis. No. 1,402,576; Jan. 3.
- Automobile repair derrick. J. and S. Imbler. No. 1,426,386; Aug. 22.
- Automobile repair stand. J. W. Cole and A. E. Johnson. No. 1,424,190; Aug. 1.
- Automobile rim. T. and A. Mohn. No. 1,415,675; May 9.
- Automobile rim and wheel. J. A. Roby and J. Z. Tondult. No. 1,432,415; Oct. 17.
- Automobile rim lug and wedge. A. W. Nelson. No. 1,425,677; Aug. 15.
- Automobile rim tool. C. J. Bush. No. 1,433,779; Oct. 31.
- Automobile running boards, Brace for. W. Hagglund. No. 1,426,564; Aug. 22.
- Automobile running boards, Carrier attachment for. M. C. Bersted. No. 1,433,773; Oct. 31.
- Automobile safety appliance. F. Shepis. No. 1,408,227; Feb. 28.
- Automobile safety device. M. Doujak. No. 1,417,305; May 23.
- Automobile safety fender. T. F. Buck. No. 1,434,039; Oct. 31.
- Automobile sanding attachment. E. R. Trachy and J. Nelson. No. 1,438,622; Dec. 12.
- Automobile sanding device. L. Engstrom. No. 1,429,855; Sept. 19.
- Automobile scaffold, Tilting. O. Laws, Jr. No. 1,410,197; Mar. 21.
- Automobile seat. T. A. Friedlander. No. 1,405,108; Jan. 31.
- Automobile seat. F. Gahm. No. 1,427,280; Aug. 29.
- Automobile seat. J. H. McCollough, Jr. (Reissue.) No. 15,396; July 4.
- Automobile seat, Auxiliary. S. A. Gray. No. 1,407,408; Feb. 21.
- Automobile securing device. H. W. Van Tilburg. No. 1,424,957; Aug. 8.
- Automobile shock absorber and stabilizer. T. C. Luce. No. 1,418,813; June 6.
- Automobile side curtain. C. H. and L. Gillig. No. 1,423,210; July 18.
- Automobile side curtain. M. B. Sanberg. No. 1,406,499; Feb. 14.
- Automobile signal. M. J. Barnett. No. 1,432,826; Oct. 24.
- Automobile signal. C. E. Blinn and G. W. Christie. No. 1,428,136; Sept. 5.
- Automobile signal. F. R. Bodnar. No. 1,412,914; Apr. 18.
- Automobile signal. W. Cline. No. 1,414,981; May 2.

- Automobile signal. R. E. Dial and J. C. Stark. No. 1,436,865; Nov. 28.
- Automobile signal. J. B. Eger. No. 1,414,346; May 2.
- Automobile signal. S. Fasci. No. 1,420,983; June 27.
- Automobile signal. H. Getchell. No. 1,435,116; Nov. 7.
- Automobile signal. S. Gorneau. No. 1,431,889; Oct. 10.
- Automobile signal. I. R. Johnson. No. 1,412,657; Apr. 11.
- Automobile signal. J. Kershaw. No. 1,401,986; Jan. 3.
- Automobile signal. W. H. Kroll. No. 1,428,104; Sept. 5.
- Automobile signal. W. McWilliams. No. 1,408,461; Mar. 7.
- Automobile signal. C. H. Noble. No. 1,424,374; Aug. 1.
- Automobile signal. E. E. Olson. No. 1,409,898; Mar. 14.
- Automobile signal. B. C. Riblet. No. 1,439,122; Dec. 19.
- Automobile signal. W. E. Root. No. 1,405,870; Feb. 7.
- Automobile signal. A. St. Jean and I. Ladleur. No. 1,426,612; Aug. 22.
- Automobile signal. J. M. Scheller. No. 1,428,260; Sept. 5.
- Automobile signal. W. Schierding. No. 1,406,290; Feb. 14.
- Automobile signal. W. E. Seymour. No. 1,436,117; Nov. 21.
- Automobile signal. Y. Shiba. No. 1,426,610; Aug. 22.
- Automobile signal. J. Thomay. No. 1,410,850; Mar. 28.
- Automobile signal. W. R. Webber. No. 1,407,826; Feb. 28.
- Automobile signal. A. Weisberg. No. 1,411,392; Apr. 4.
- Automobile signal device. A. Berger. No. 1,430,352; Sept. 26.
- Automobile signal device. W. Berry. No. 1,405,893; Feb. 7.
- Automobile signal device. T. J. Golden. No. 1,412,206; Apr. 11.
- Automobile signal device. S. O. Martin. No. 1,437,901; Dec. 5.
- Automobile signal device. L. Reaser. No. 1,413,237; Apr. 18.
- Automobile signal, Rear. L. Bartlett. No. 1,402,828; Jan. 10.
- Automobile signaling device. W. E. F. Gibson. No. 1,430,442; Sept. 26.
- Automobile sled. F. O. Estes. No. 1,437,408; Dec. 5.
- Automobile sled. W. S. Fraser. No. 1,415,105; May 9.
- Automobile sled. I. Urevig. No. 1,429,658; Sept. 19.
- Automobile sleigh. J. Meleg. No. 1,435,489; Nov. 14.
- Automobile spare wheels. Securing device for. C. R. Mennillo. No. 1,439,115; Dec. 19.
- Automobile spark indicator. J. L. Klavon. No. 1,421,495; July 4.
- Automobile splash screen. D. and E. Ericson. No. 1,411,612; Apr. 4.
- Automobile spring clip. J. P. Daniels. No. 1,435,052; Nov. 7.
- Automobile spring wheel. W. L. Buckels. No. 1,419,811; June 13.
- Automobile starting device. J. F. Collins. No. 1,418,068; May 30.
- Automobile steering connections. Antirattler for. J. Edman. No. 1,403,019; Jan. 10.
- Automobile steering gear. W. F. Kincaid. No. 1,438,042; Dec. 5.
- Automobile steering mechanism, Locking device for. E. L. B. Von Diezelski. No. 1,421,870; July 4.
- Automobile steering post. E. W. Weaver. No. 1,403,660; Jan. 17.
- Automobile steering-wheel lock. J. B. Brindamour. No. 1,437,717; Dec. 5.
- Automobile steering-wheel lock. G. E. Knight. No. 1,439,422; Dec. 19.
- Automobile steering-wheel lock. H. S. McCormick and A. Glauber. No. 1,411,047; Mar. 28.
- Automobile step. J. W. Conway. No. 1,428,006; Sept. 5.
- Automobile storage-battery-charging system. J. A. Ritter. No. 1,439,482; Dec. 19.
- Automobile storm curtain. A. F. Randall. No. 1,409,968; Mar. 21.
- Automobile storm curtain. A. F. Randall. No. 1,421,716; July 4.
- Automobile sun shield. W. F. Sprengnether. No. 1,427,332; Aug. 29.
- Automobile sun shield. E. W. Toadvine. No. 1,427,038; Aug. 22.
- Automobile support. A. E. Cooney. No. 1,436,435; Nov. 21.
- Automobile table. E. Belmore. No. 1,433,063; Oct. 24.
- Automobile tail light. J. Parker and T. Wilkie. No. 1,406,485; Feb. 14.
- Automobile tail light. A. O. Svedahl. No. 1,424,047; July 25.
- Automobile tail light and State-license-plate holder, Combined. L. A. Ragan. No. 1,415,116; May 9.
- Automobile tanks, Liquid-level indicator for. J. C. Fox. No. 1,420,628; June 27.
- Automobile theft alarm. F. C. Craw. No. 1,434,099; Oct. 31.
- Automobile theft indicator. D. and O. J. Reiser. No. 1,408,032; Feb. 28.
- Automobile theft-preventing device. L. F. Wesche. No. 1,428,307; Sept. 5.
- Automobile theft signal. H. M. Lake and O. C. Betry. No. 1,424,106; July 25.
- Automobile theft signals, Brake-lever circuit closer for. D. S. Lee. No. 1,428,380; Sept. 5.
- Automobile tie-down device. E. S. Evans. No. 1,434,333; Oct. 31.
- Automobile time indicator. R. Watson. No. 1,415,004; May 2.
- Automobile time lock. A. W. Lyda. No. 1,415,885; May 16.
- Automobile tire carrier. H. R. Saxon. No. 1,412,753; Apr. 11.
- Automobile tonneau, Convertible. L. L. Fuller. No. 1,416,551; May 16.
- Automobile tool. L. L. Gilbert. No. 1,419,922; June 20.
- Automobile tool. T. M. Kinnaird. No. 1,437,252; Nov. 28.
- Automobile tool. W. J. Nusbaum. No. 1,424,514; Aug. 1.
- Automobile tool box. C. Gibbons. No. 1,433,810; Oct. 31.
- Automobile tool-storing device. R. H. Collins. No. 1,434,350; Oct. 31.
- Automobile top. F. B. Almy. No. 1,403,664; Jan. 17.
- Automobile top. M. J. Gorrell and H. S. McLeod. No. 1,413,474; Apr. 18.
- Automobile top. M. R. Hull. No. 1,425,014; Aug. 8.
- Automobile top. D. C. Watt and F. A. Grerson. No. 1,416,659; May 16.
- Automobile top closures, Securing means for. H. E. Adams. No. 1,424,061; July 25.
- Automobile top curtain. S. A. Gates. No. 1,413,657; Apr. 25.
- Automobile top-deck protector. J. F. Hill. No. 1,439,238; Dec. 19.
- Automobile top, Disappearing. A. C. Velo. No. 1,426,129; Aug. 15.
- Automobile-top fastener. W. H. Bennett. No. 1,407,118; Feb. 21.
- Automobile top, One-man. J. Davis. No. 1,423,916; July 25.
- Automobile top-securing device. L. E. Shaw. No. 1,435,182; Nov. 14.
- Automobile tops, Connecting device for. V. D. Ross. No. 1,426,912; Aug. 22.
- Automobile tops, Fastening device for. E. W. Goodwin. No. 1,434,351; Oct. 31.
- Automobile tops, Strap for. F. T. Baker, Jr. No. 1,408,022; Mar. 7.
- Automobile tops, Window frame for. M. Haimowitz. No. 1,412,282; Apr. 11.
- Automobile towing bar. B. E. De Vol and J. R. Moncrief. No. 1,426,155; Aug. 15.
- Automobile traffic signal. V. De Dominicis and F. A. Reip. No. 1,419,661; June 13.
- Automobile trailer coupling. W. E. Ferris. No. 1,437,836; Dec. 5.
- Automobile transmission. J. E. Johnson. No. 1,429,882; Sept. 19.
- Automobile transmission. S. S. Morton. No. 1,427,541; Aug. 29.
- Automobile truck wheel. W. E. Williams. No. 1,435,437; Nov. 14.
- Automobile trucks, Dumping mechanism for. J. D. Renne. No. 1,433,743; Oct. 31.
- Automobile turntable. F. F. Clarke and E. R. Inman. No. 1,421,066; June 27.
- Automobile turntable. T. E. Imler. No. 1,417,334; May 23.
- Automobile turntable. A. Shuster. No. 1,426,679; Aug. 22.
- Automobile turntable, Traveling. J. R. Pillow. No. 1,428,977; Sept. 12.
- Automobile type, Radiator of the. E. P. Wolf. No. 1,410,356; Mar. 21.
- Automobile underframes, Stabilizing device for. A. DeConinck. No. 1,404,585; Jan. 24.
- Automobile vehicles, Bonnet frame for. A. E. L. Secqueville. No. 1,420,292; June 20.
- Automobile vehicles, Lubricating bolt for the spring shackles of. A. E. L. Secqueville. No. 1,402,900; Jan. 10.
- Automobile ventilator. H. R. C. Anthony. No. 1,408,431; Mar. 7.
- Automobile visor. J. B. Gats. No. 1,430,499; Sept. 26.
- Automobile washer. F. J. McGowan. No. 1,418,383; June 6.
- Automobile washer. J. B. Mills. No. 1,433,964; Oct. 31.
- Automobile wheel. E. A. Berg. No. 1,427,433; Aug. 29.
- Automobile wheel. E. Deister. No. 1,432,540; Oct. 17.
- Automobile wheel. D. S. Greenberg. No. 1,422,050; July 4.
- Automobile wheel. J. A. Hocker. No. 1,431,660; Oct. 10.
- Automobile wheel. J. P. Jacobs. No. 1,420,195; June 20.
- Automobile wheel. W. C. Leonard. No. 1,432,763; Oct. 24.
- Automobile wheel. A. S. Meadoff. No. 1,410,209; Mar. 21.
- Automobile wheel attachment. E. A. Bagby. No. 1,410,871; Mar. 28.
- Automobile wheel attachment. W. H. Green. No. 1,417,821; May 30.
- Automobile wheel attachment. C. M. Huggins and C. J. Cline. No. 1,411,886; Apr. 4.
- Automobile wheel attachment. A. S. Meadoff. No. 1,410,208; Mar. 21.
- Automobile wheel fender. L. H. Jacobs. No. 1,413,736; Apr. 25.
- Automobile wheel gauge. L. Tharp. No. 1,438,346; Dec. 12.
- Automobile wheel hub. C. Knecht. No. 1,410,323; Mar. 21.

Alphabetical list of inventions—Continued.

- Automobile wheel locator. M. Price. No. 1,434,148; Oct. 31.
- Automobile wheel rim. G. T. Nichols. No. 1,423,354; July 18.
- Automobile wheels, Advertising disk for. E. F. Braucher. No. 1,432,274; Oct. 17.
- Automobile wheels, Chock for. B. E. Skiles. No. 1,407,338; Feb. 21.
- Automobile wheels, Extractor appliance for. J. G. Stokes. No. 1,431,338; Oct. 10.
- Automobile wheels, Locking device for. A. M. Cummings. (Reissue.) No. 15,428; Aug. 8.
- Automobile wheels, Nonskid device for. A. L. Forrest. No. 1,410,906; Mar. 28.
- Automobile wheels, Rim for. N. L. Baker. No. 1,405,563; Feb. 7.
- Automobile wheels, Rim for. R. Rossbach. No. 1,415,402; May 9.
- Automobile wheels, Side chain shackle for. E. E. Chapman. No. 1,418,534; June 6.
- Automobile wind deflector. E. B. Coleman. No. 1,433,260; Oct. 24.
- Automobile wind deflector. J. P. Gray. No. 1,428,844; Sept. 12.
- Automobile window sash, Machine for the manufacture of cloth covering tubes for. P. Rissmann. No. 1,431,256; Oct. 10.
- Automobile windows, Antirattler for. C. F. Attwood. No. 1,438,209; Dec. 12.
- Automobile windshield accessory. W. E. Bellingham. No. 1,432,149; Oct. 17.
- Automobile windshield cleaner. O. Anderson and F. W. Salsbury. No. 1,419,601; June 13.
- Automobile windshield fitting. H. S. Cox. No. 1,414,626; May 2.
- Automobile windshield top. G. E. Mitchell. No. 1,435,490; Nov. 14.
- Automobiles, Adjustable suspending rig for. A. G. Girard. No. 1,416,191; May 16.
- Automobiles and like vehicles, Pneumatic wheel for. C. W. Smith. No. 1,414,052; Apr. 25.
- Automobiles and other motor-propelled vehicles, Way-signal device for. C. M. Hildebrandt. No. 1,434,056; Oct. 31.
- Automobiles, and other motor vehicles, Lubricant-controlling device for automatically controlling the lubricating system of gas engines of. A. J. Rowan. No. 1,421,995; July 4.
- Automobiles and other purposes, Annunciator for. A. and H. Ingram. No. 1,414,134; Apr. 25.
- Automobiles and other vehicles, Expandable body for. F. W. Follett. No. 1,436,984; Nov. 28.
- Automobiles and other vehicles, Shock absorber for. F. A. Suhre. No. 1,411,130; Mar. 28.
- Automobiles and other vehicles, Vibration recorder for. E. S. Phelps. No. 1,408,635; Mar. 7.
- Automobiles and the like, Spot lamp for. S. H. Thomson and R. H. Hummert. No. 1,438,196; Dec. 12.
- Automobiles, Antiskid and pull-out device for. J. W. Birdzell. No. 1,439,684; Dec. 26.
- Automobiles, Antiskid device for. P. McCook. No. 1,406,403; Feb. 14.
- Automobiles, Antisplasher attachment for. W. J. Rothmann. No. 1,403,446; Jan. 10.
- Automobiles, Antisplashing device for. J. W. Netherton. No. 1,429,366; Sept. 19.
- Automobiles, Antitheft device for. G. E. Goodwin. No. 1,409,845; Mar. 14.
- Automobiles, Antitheft device for. A. Tino and A. H. Roth. No. 1,435,431; Nov. 14.
- Automobiles, Apparatus for tilting. J. H. Nesbitt. No. 1,435,654; Nov. 14.
- Automobiles, Apparatus for washing. H. E. Young. No. 1,412,732; Apr. 11.
- Automobiles, Articulated chassis for. J. S. de Miranda. No. 1,439,802; Dec. 26.
- Automobiles, Attachment for. E. R. Clark. No. 1,407,187; Feb. 21.
- Automobiles, Attachment for Ford. J. A. Grant. No. 1,411,623; Apr. 4.
- Automobiles, Attachment for running boards of. G. S. Bowes. No. 1,407,514; Feb. 21.
- Automobiles, Attachment for windshields for. B. Custer. No. 1,426,716; Aug. 22.
- Automobiles, Automatic gas reserve for. W. H. Muzzy. No. 1,435,653; Nov. 14.
- Automobiles, Automatic timer for. H. V. Johnson. No. 1,416,833; May 23.
- Automobiles, Auxiliary brake for. P. A. Robbins. No. 1,431,182; Oct. 10.
- Automobiles, Auxiliary cushion for. B. B. Holmes. No. 1,405,215; Jan. 31.
- Automobiles, Auxiliary gasoline tank for. D. Sewell. No. 1,423,158; July 18.
- Automobiles, Auxiliary shield for. F. J. Bennett. No. 1,410,987; Mar. 28.
- Automobiles, Auxiliary steering device for. H. C. Hughes. No. 1,434,543; Nov. 7.
- Automobiles, Back-view mirror for. J. Haughton. No. 1,424,405; Aug. 1.
- Automobiles, Bonnet corner pad for. J. A. Gurke. No. 1,415,632; May 9.
- Automobiles, Bumper attachment for. W. G. Cox. No. 1,409,675; Mar. 11.
- Automobiles, Bumper for. F. F. Alexandre. No. 1,436,559; Nov. 21.
- Automobiles, Bumper for. C. Bowen. No. 1,406,921; Feb. 14.
- Automobiles, Bumper for. J. M. Cissell. No. 1,407,783; Feb. 28.
- Automobiles, Bumper for. P. P. Crabill and J. Turner. No. 1,402,399; Jan. 3.
- Automobiles, Bumper for. J. H. Igo. No. 1,410,015; Mar. 21.
- Automobiles, Bumper for. J. Turner and P. P. Crabill. No. 1,429,806; Sept. 19.
- Automobiles, Camping attachment for. J. L. Trout. No. 1,439,277; Dec. 19.
- Automobiles, Cast wheel for. W. E. Williams. No. 1,421,643; July 4.
- Automobiles, Caution device for. O. Goldsmith. No. 1,406,848; Feb. 14.
- Automobiles, Collapsible bed and tent for. J. F. Cooper. No. 1,404,930; Jan. 31.
- Automobiles, Collapsible bed and tent for. J. F. Cooper. No. 1,413,098; Apr. 18.
- Automobiles, Compressed-air feed for. W. M. Galloway. No. 1,419,553; June 13.
- Automobiles, Crank holder for. J. Schroder. No. 1,431,691; Oct. 10.
- Automobiles, Cut-out for. H. L. Milslead. No. 1,411,364; Apr. 4.
- Automobiles, Demountable wheel for. W. E. Williams. No. 1,427,926; Sept. 5.
- Automobiles, Detachable wheel for. F. A. Ellis, Jr. No. 1,421,189; June 27.
- Automobiles, Device for attaching the suspension springs of. A. L. F. Wattel. No. 1,419,788; June 13.
- Automobiles, Differential gearing for. I. M. Marcy. No. 1,427,612; Aug. 29.
- Automobiles, Direction indicator for. L. A. Bean. Nos. 1,413,823-4; Apr. 25.
- Automobiles, Direction indicator for. G. Davidson. No. 1,411,324; Apr. 4.
- Automobiles, Direction indicator for. J. L. C. Sullivan. No. 1,411,756; Apr. 4.
- Automobiles, Direction signal for. C. Dubeault. No. 1,426,281; Aug. 15.
- Automobiles, Direction signal for. W. W. Lincoln. No. 1,411,499; Apr. 4.
- Automobiles, Direction signal for. F. B. Womack. No. 1,406,130; Feb. 7.
- Automobiles, Dirigible spotlight for. C. F. and K. J. Moyer. No. 1,414,761; Apr. 25.
- Automobiles, Disconnectible fan for. J. E. Johnson. No. 1,427,687; Aug. 29.
- Automobiles, Disk wheel for. W. E. Williams. No. 1,405,645; Feb. 7.
- Automobiles, Door-closure for the top portions of. R. C. Rupp. No. 1,414,585; May 2.
- Automobiles, Dust-sucking apparatus for. M. Brenneisen. No. 1,406,530; Feb. 14.
- Automobiles, Electric lock and alarm for. S. L. Mathews. No. 1,429,247; Sept. 19.
- Automobiles, Electrically-operated signal for. M. R. Bater, N. P. Svendsen, D. T. Trump, and R. M. Mahoney. No. 1,437,086; Nov. 28.
- Automobiles, Emergency repair hub for. H. N. Rook and F. M. Payn. No. 1,407,675; Feb. 21.
- Automobiles, etc., Angling device for. D. C. Watt and F. A. Grearson. No. 1,407,713; Feb. 28.
- Automobiles, etc., Brake-band lining for. J. C. Barefoot and A. A. Kneec. No. 1,430,143; Sept. 26.
- Automobiles, External contracting brake for. H. S. Peed. No. 1,434,022; Oct. 31.
- Automobiles, Footboard attachment for. R. E. Anglemeyer. No. 1,431,084; Oct. 3.
- Automobiles, Gasoline indicator for. G. J. Guth. No. 1,427,303; Sept. 5.
- Automobiles, Gear control for. E. B. Morris. No. 1,433,023; Oct. 24.
- Automobiles, etc., Glare guard for windshields for. W. D. Pickard. No. 1,424,939; Aug. 8.
- Automobiles, etc., Radiator core for. O. S. Linderose. No. 1,403,176; Jan. 10.
- Automobiles, etc., Radiator for. H. Bichunsky. No. 1,403,226; Jan. 10.
- Automobiles, Extracting device for. C. J. Williams. No. 1,408,323; Feb. 28.
- Automobiles, Fabricated wheel for. W. E. Williams. No. 1,410,045; Mar. 21.
- Automobiles, Floor plate and shutter for same for. S. A. Ridick. No. 1,413,426; Apr. 18.
- Automobiles, Flywheel for. C. C. Riley. No. 1,406,283; Feb. 14.
- Automobiles, Folding curtain for. F. A. Dunham. No. 1,426,969; Aug. 22.
- Automobiles, Footing for. W. Jury. No. 1,425,101; Aug. 8.
- Automobiles, Foot warmer for. R. H. Arvin. No. 1,438,082; Dec. 5.
- Automobiles for indicating their direction of route or stoppage, Signal means for. W. H. Bauert. No. 1,408,335; Feb. 28.
- Automobiles, Gasoline reserve and control device for. W. H. Muzzy. No. 1,407,799; Feb. 28.
- Automobiles, Gear lock for. C. G. Trosien. No. 1,414,716; May 2.

- Automobiles, Handle lock for. W. A. Somers. No. 1,424,686; Aug. 1.
- Automobiles, Hood attachment for. R. J. Griesedieck. No. 1,403,768; Jan. 17.
- Automobiles, Hood latch for. E. L. Crum. No. 1,416,453; May 16.
- Automobiles, Ice carrier for. H. C. Etheridge. No. 1,431,385; Oct. 10.
- Automobiles, Identification marking for. F. Wenzel. No. 1,438,676; Dec. 12.
- Automobiles, Ignition-controlling means for. C. A. Johnson. No. 1,437,896; Dec. 5.
- Automobiles, Ignition lock for. C. A. Hervey. No. 1,408,295; Feb. 28.
- Automobiles, Knockdown holdup frustrator for. J. F. Fenton. No. 1,433,708; Oct. 31.
- Automobiles, Lighting and ignition system for. V. F. Mikolasek. No. 1,421,285; June 27.
- Automobiles, Lighting system for. E. C. Ballman. No. 1,418,051; May 30.
- Automobiles, Lighting system for. W. F. Penrod. No. 1,421,549; July 4.
- Automobiles, Lock for. R. Downing. No. 1,408,447; Mar. 7.
- Automobiles, Lock for. M. F. Macdonald. No. 1,404,037; Jan. 17.
- Automobiles, Lock for. D. C. Whitehurst and G. W. Shade. No. 1,402,555; Jan. 3.
- Automobiles, Locking device for. W. P. Faulkner. No. 1,412,854; Apr. 18.
- Automobiles, Locking rail for. P. Brazeau. No. 1,432,589; Oct. 17.
- Automobiles, Low-gear lock and theft-preventing device for. H. L. and H. E. Ward. No. 1,427,662; Aug. 29.
- Automobiles, Low-speed-pedal holder for. J. E. Welton. No. 1,436,842; Nov. 28.
- Automobiles, Low-water indicator for. R. L. Scoville. No. 1,435,986; Nov. 21.
- Automobiles, Lubricating system for. G. G. Naugle. No. 1,432,778; Oct. 24.
- Automobiles, Match box and ash tray for. J. Koenig. No. 1,436,316; Nov. 21.
- Automobiles, Means for reflecting and observing traffic conditions for. W. P. Hammond. No. 1,437,974; Dec. 5.
- Automobiles, Oil-supply indicator for. O. L. Olson. No. 1,439,358; Dec. 19.
- Automobiles, Pedal accelerator for. E. H. Ellison. No. 1,408,572; Mar. 7.
- Automobiles, Pedal attachment for. F. C. and F. Z. Grant. No. 1,428,843; Sept. 12.
- Automobiles, Pedal lock for. F. Woollard. No. 1,414,390; May 2.
- Automobiles, Permutation lock for. A. P. Litrem. No. 1,417,340; May 23.
- Automobiles, Power jack for. E. Moses. No. 1,416,736; May 23.
- Automobiles, Power take-off for. C. H. Stehl. No. 1,424,688; Aug. 1.
- Automobiles, Protective device for. H. Neu and L. Blaha. No. 1,403,343; Jan. 10.
- Automobiles, Pull belt for stalled. J. Simon. No. 1,430,471; Sept. 26.
- Automobiles, Radiator cap for. G. Roudanez. No. 1,436,113; Nov. 21.
- Automobiles, railway motor cars, and locomotives, Driving device for. R. W. Pratt. No. 1,421,025; June 27.
- Automobiles, Rain shield for. W. B. Fogh. No. 1,404,950; Jan. 31.
- Automobiles, Rear axle attachment for. W. D. Pickard. No. 1,424,940; Aug. 8.
- Automobiles, Rim tool for. F. Gauthier. No. 1,410,910; Mar. 28.
- Automobiles, Road guide and travel indicator for. A. D. Gabbert. No. 1,408,352; Feb. 28.
- Automobiles, Rotatable pump for cooling systems of. G. Wallick. No. 1,433,762; Oct. 31.
- Automobiles, Running-board and fender support for. E. E. Green. No. 1,406,728; Feb. 14.
- Automobiles, Safety appliance for. S. Lyons. No. 1,413,042; Apr. 18.
- Automobiles, Safety device for. W. Fial. No. 1,424,633; Aug. 1.
- Automobiles, Safety driving mirror for. E. L. Morris. No. 1,416,966; May 23.
- Automobiles, Safety fender for. T. F. Buck. No. 1,404,091; Jan. 17.
- Automobiles, Safety fender for. T. F. Buck. Nos. 1,415,518-19; May 9.
- Automobiles, Safety fender for. W. and H. C. Hansen, and C. Bearby. No. 1,420,036; June 20.
- Automobiles, Safety guard for. A. A. Braucci. No. 1,411,254; Apr. 4.
- Automobiles, Safety trunk and bag carrier for. H. O. Grizzelle. No. 1,432,547; Oct. 17.
- Automobiles, Sanding device for. C. B. Rowland. No. 1,432,210; Oct. 17.
- Automobiles, Securing device for the connecting strips of. G. H. Prigan. No. 1,425,691; Aug. 15.
- Automobiles, Shock absorber for. L. R. Hunt. No. 1,406,388; Feb. 14.
- Automobiles, Shock absorber for. T. A. Studdard. No. 1,418,105; May 30.
- Automobiles, Side curtain for. R. J. Gruenberg. No. 1,415,441; May 9.
- Automobiles, Signal device for. L. L. Schmidt, T. W. Benchel, and P. C. Otwell. No. 1,430,264; Sept. 26.
- Automobiles, Signal device for. M. S. Shapiro. No. 1,405,165; Jan. 31.
- Automobiles, Signal for. J. Stander. No. 1,411,755; Apr. 4.
- Automobiles, Signal for. H. J. Stockum and J. H. Van Sciver. No. 1,404,905; Jan. 31.
- Automobiles, Signal light and license-plate holder for. J. A. Fagan. No. 1,408,726; Mar. 7.
- Automobiles, Signal light for. O. I. Nigh. No. 1,415,465; May 9.
- Automobiles, Smoker's cabinet for. R. J. Ward. No. 1,440,255; Dec. 26.
- Automobiles, Snow-clearing attachment for. W. Smith. No. 1,407,895; Feb. 28.
- Automobiles, Speed-change tractor attachment for. A. E. Cook and T. Van Tuyl. No. 1,417,798; May 30.
- Automobiles, Splash screen for. C. Nielsen. No. 1,432,724; Oct. 17.
- Automobiles, Spot lamp and mounting for. T. I. Duffy. No. 1,404,281; Jan. 24.
- Automobiles, Spotlight for. C. A. Maddux. No. 1,428,108; Sept. 5.
- Automobiles, Spring for. W. L. Jones. No. 1,407,805; Feb. 28.
- Automobiles, Spring hanger for. C. E. Starr. No. 1,410,133; Mar. 21.
- Automobiles, Spring-recoil absorber for. C. D. Barrett. No. 1,404,423; Jan. 24.
- Automobiles, Spring-roller side-curtain construction for. L. K. Mulford. No. 1,438,458; Dec. 12.
- Automobiles, Spring suspension for. A. J. Barron. No. 1,432,231; Oct. 17.
- Automobiles, Starter for. P. H. Hendrickson. No. 1,404,121; Jan. 17.
- Automobiles, Starting mechanism for. B. D. Kunkle. No. 1,437,061; Nov. 28.
- Automobiles, Starting mechanism for. A. Nyman. No. 1,437,069; Nov. 28.
- Automobiles, Starting system for. H. V. S. Taylor. No. 1,403,356; Jan. 10.
- Automobiles, Steel disk wheel for. W. E. Williams. No. 1,402,032; Jan. 3.
- Automobiles, Steering and controlling mechanism for. J. Blackburn. No. 1,435,692; Nov. 14.
- Automobiles, Steering gear for. D. W. Jones. Nos. 1,429,142-3; Sept. 12.
- Automobiles, Steering mechanism for. M. J. B. Barbarou. No. 1,413,650; Apr. 25.
- Automobiles, Steering mechanism for. H. M. Denyes. No. 1,425,753; Aug. 15.
- Automobiles, Steering mechanism for. F. C. Stoffer. No. 1,408,841; Mar. 7.
- Automobiles, Steering stabilizer for. P. W. Johnson. No. 1,435,898; Nov. 14.
- Automobiles, Steering-wheel lock for. W. J. Szczepaniak. No. 1,438,068; Dec. 5.
- Automobiles, Step construction for. J. Churchward. No. 1,407,517; Feb. 21.
- Automobiles, Stop signal for. A. J. Boyd. No. 1,412,160; Apr. 11.
- Automobiles, Storm protector for windshields of. J. R. Ayotte. No. 1,418,121; May 30.
- Automobiles, Stretcher cot for. R. Bartholomew. No. 1,413,890; Apr. 25.
- Automobiles, Sun and storm shade for. H. W. Stewart. No. 1,420,779; June 27.
- Automobiles, Swiveling headlight for. R. H. E. Schlecht. No. 1,409,122; Mar. 7.
- Automobiles, Table attachment for. J. E. Gross. No. 1,403,317; Jan. 10.
- Automobiles, Thief check for. H. G. Dreyer. No. 1,431,515; Oct. 10.
- Automobiles, Theft detector for. J. J. Michalski. No. 1,412,483; Apr. 11.
- Automobiles, Theft detector for. J. J. Michalski. No. 1,414,521; May 2.
- Automobiles, Theft detector for. J. J. Michalski. No. 1,419,401; June 13.
- Automobiles, Theft-preventing alarm and locking means for. H. P. Taylor. No. 1,403,275; Jan. 10.
- Automobiles, Thief alarm for. C. L. Wright. No. 1,415,081; May 9.
- Automobiles, Tool box for. H. F. Fuller. No. 1,412,680; Apr. 11.
- Automobiles, Tow bar for. H. Bennett. No. 1,438,291; Dec. 12.
- Automobiles, Traction means for. A. W. Nelson. No. 1,406,212; Feb. 14.
- Automobiles, Tractor attachment for. L. B. Denton. No. 1,414,938; May 2.
- Automobiles, Tractor attachment for. M. L. Schlueter. No. 1,411,523; Apr. 4.
- Automobiles, Tractor attachment for. E. G. Staude. No. 1,418,842; June 6.
- Automobiles, Trailer hitch for. I. B. Cessna. No. 1,427,579; Aug. 29.
- Automobiles, Transmission band for. A. S. Voight. No. 1,417,870; May 30.
- Automobiles, Transmission gear for. G. O. Howeth. No. 1,423,426; July 18.

Alphabetical list of inventions—Continued.

- Automobiles, Transmission system for. H. L. Tanner. No. 1,424,860; Aug. 8.
- Automobiles, Transparent windshield wing for. W. A. Blakeney. No. 1,408,436; Mar. 7.
- Automobiles, Trouble light for. G. L. Lamb. No. 1,431,822; Oct. 10.
- Automobiles, Truck attachment for. D. J. Fuhrer. No. 1,423,931; July 25.
- Automobiles, trucks, and the like, Brake adjuster for. W. F. March. No. 1,427,113; Aug. 29.
- Automobiles, Truss for. C. Smalley. No. 1,424,685; Aug. 1.
- Automobiles, Vacuum cleaner for. B. W. Keagle and J. Katz. No. 1,409,183; Mar. 14.
- Automobiles, Washbasin for. W. H. Hollis. No. 1,422,763; July 11.
- Automobiles, Washbasin for. F. P. Sullivan. No. 1,426,018; Aug. 15.
- Automobiles, Water-heating apparatus for radiator-provided water-cooled internal-combustion engines of. J. E. Robison. No. 1,411,379; Apr. 4.
- Automobiles, Water or other liquid-holding tank for. J. E. Robison. No. 1,411,378; Apr. 4.
- Automobiles, Wet-weather guard and antirattler for. H. Ten Winkel. No. 1,409,269; Mar. 14.
- Automobiles, Wheel shoe for. F. Hibner. No. 1,415,444; May 9.
- Automobiles, Windshield adaptor for. E. P. Sommers. No. 1,411,753; Apr. 4.
- Automobiles, Windshield for. C. H. Veeder. No. 1,410,970; Mar. 28.
- Automobiles, Windshield wing for. W. R. Johnston. No. 1,429,433; Sept. 19.
- Automobiles, Winter inclosure for. N. A. Michna. No. 1,425,031; Aug. 8.
- Automotive engine, Underground. H. and R. Breton. No. 1,408,720; Mar. 7.
- Autotransformer. A. D. Riccia. No. 1,426,775; Aug. 22.
- Autotruck. H. Barkmann and A. Kutscha. No. 1,409,916; Mar. 21.
- Autotruck. T. J. McCarthy. No. 1,419,067; June 6.
- Autotruck cab. D. W. and E. C. Voltz and G. E. Hammel. No. 1,427,660; Aug. 29.
- Autotruck loader. C. C. Atkinson. No. 1,411,829; Apr. 4.
- Auxiliary seat. M. H. Davis. No. 1,431,291; Oct. 10.
- Auxiliary spring. A. H. Peltier. No. 1,408,394; Feb. 28.
- Auxiliary table. L. L. Richard. No. 1,412,630; Apr. 11.
- Aviation purposes, Hollow body for. C. Dornier. No. 1,440,282; Dec. 26.
- Aviator's body harness. L. L. Irvin. No. 1,440,151; Dec. 26.
- Awl motion. F. E. Valois. No. 1,418,751; June 6.
- Awl, Sewing. F. W. Carnall. No. 1,409,668; Mar. 14.
- Awning box. D. Froehlich. No. 1,418,247; May 30.
- Awning bracket. F. Miller. No. 1,429,754; Sept. 19.
- Awning-control device, Automatic. W. Grebler and L. Oskow. No. 1,408,424; Feb. 28.
- Awning head rod and ring holder. J. C. Truemper. No. 1,439,344; Dec. 19.
- Awning, Power-operated. W. C. Langdon. No. 1,413,596; Apr. 25.
- Awning-roller construction. J. F. King. No. 1,424,572; Aug. 1.
- Awning, Window. J. Auermiller. No. 1,418,860; June 6.
- Awning, Window. F. O. Isaacson and E. B. Leefrom. No. 1,435,458; Oct. 24.
- Awning, Windshield. E. H. Hutcheson. No. 1,423,116; July 18.
- Awnings, Attachment for. J. A. Lenhoff. No. 1,422,772; July 11.
- Ax, Brush and chopping. O. E. Olesberg. No. 1,423,140; July 18.
- Ax, Convertible hand. B. Gidmark. No. 1,419,249; June 13.
- Ax handle. J. Crawford. No. 1,431,153; Oct. 10.
- Axel housing, Rear-. R. Huff. No. 1,403,500; Jan. 17.
- Axis aileron, Transverse. J. P. Tarbox. No. 1,423,166; July 18.
- Axis aileron, Vertical. J. P. Tarbox. No. 1,423,167; July 18.
- Axle. N. C. Bement. No. 1,418,613; June 6.
- Axle. V. V. Torbensen. No. 1,427,502; Aug. 29.
- Axle. T. Zimmerman. No. 1,422,647; July 11.
- Axle. T. Zimmerman. No. 1,438,570; Dec. 12.
- Axle and axle casing, Automobile rear. J. P. Laviole. No. 1,437,186; Nov. 28.
- Axle assemblies, Means for supporting rear-. J. R. Roth. No. 1,420,386; June 20.
- Axle bearing, Car-. J. R. Stephens. No. 1,411,127; Mar. 28.
- Axle collar for railway motors. F. W. McCloskey. No. 1,409,745; Mar. 14.
- Axle construction. C. M. Billings. No. 1,418,276; June 6.
- Axle construction. H. Vanderbeek. No. 1,405,642; Feb. 7.
- Axle construction and assembling same. T. V. Buckwalter. No. 1,409,133; Mar. 7.
- Axle construction, Front-. A. M. Leoni. No. 1,426,302; Aug. 15.
- Axle construction, Rear-. E. R. Evans. No. 1,410,663; Mar. 28.
- Axle construction, Rear-. H. Ford. No. 1,430,367; Sept. 26.
- Axle construction, Rear-. W. D. Werts. No. 1,408,152; Feb. 28.
- Axle, Driving and steering. P. J. F. Batenburg. No. 1,407,911; Feb. 28.
- Axle, Emergency. E. Strong and H. Tarbutton. No. 1,411,981; Apr. 4.
- Axle, Emergency stub. J. E. Woodson. No. 1,410,863; Mar. 28.
- Axle, Extension. J. A. Dann. No. 1,431,099; Oct. 3.
- Axle for motor vehicles. R. J. Burrows. No. 1,409,664; Mar. 14.
- Axle for motor vehicles. R. J. Burrows. No. 1,427,089; Aug. 29.
- Axle for motor vehicles. R. J. Burrows. No. 1,437,492; Dec. 5.
- Axle for motor vehicles, Front. H. T. Brady and D. A. Benway. No. 1,438,214; Dec. 12.
- Axle gauge. G. E. Brower. No. 1,433,064; Oct. 24.
- Axle gauge. F. W. Nuerwell. No. 1,408,024; Feb. 28.
- Axle housing, Rear-. R. Huff. No. 1,410,758; Mar. 28.
- Axle, Internal-gear-drive. C. W. McKinley. No. 1,439,968; Dec. 26.
- Axle journal box. N. D. Levin. No. 1,414,782; May 2.
- Axle mounting for vehicles. F. H. Cozzens. No. 1,427,362; Aug. 29.
- Axle mounting, Oscillating. A. E. Cook and T. Van Tuyl. No. 1,417,800; May 30.
- Axle setter. A. C. Karraker. No. 1,410,191; Mar. 21.
- Axle skeln. A. J. Frey. No. 1,436,493; Nov. 21.
- Axle, Vehicle. O. M. Nacker. No. 1,430,833; Oct. 3.
- Axles for motor-driven road vehicles, Making. C. W. Davis. No. 1,426,279; Aug. 15.
- Axles, Journal bearing for car. J. J. Hennessy. No. 1,403,163; Jan. 10.
- Axles, Runner-attaching device for wagon. G. Riedler. No. 1,418,829; June 6.
- Azo-lake color. D. E. McAllister. No. 1,434,619; Nov. 7.
- Babbitting machine. M. B. Moser. No. 1,433,838; Oct. 31.
- Babbitting machine. A. E. Pearson. No. 1,429,767; Sept. 19.
- Baby carriages, Limousine body for. P. H. Smith. No. 1,403,451; Jan. 10.
- Baby carrier. G. D. Gatling. No. 1,435,115; Nov. 7.
- Baby exerciser. F. M. Haskin. No. 1,426,063; Aug. 15.
- Baby pants. R. Falter. No. 1,402,588; Jan. 3.
- Baby walker. E. L. Bowman. No. 1,404,572; Jan. 24.
- Baby walker. R. Noel, Sr. No. 1,419,890; June 13.
- Backband. T. M. Dobson. No. 1,404,938; Jan. 31.
- Backband. R. W. Paul. No. 1,423,144; July 18.
- Back brace. R. E. Kelly. No. 1,417,250; May 23.
- Back, Collapsible seat. R. E. Winchester. No. 1,405,651; Feb. 7.
- Back gauge. G. W. Jacques. No. 1,421,483; July 4.
- Back rest, Adjustable. B. P. Burns. No. 1,409,662; Mar. 14.
- Back support. C. J. Travers. No. 1,437,875; Dec. 5.
- Back-up post. R. D. Martin. No. 1,412,478; Apr. 11.
- Back-up post. C. C. Neighbors. No. 1,407,880; Feb. 28.
- Bag: See—
- | | |
|-----------------|-----------------------------|
| Air bag. | Heating bag. |
| Caddy bag. | Marketing bag. |
| Carry bag. | Paper bag. |
| Clothespin bag. | Self-opening traveling bag. |
| Coal bag. | Shopper's bag. |
| Gladstone bag. | Shopping bag. |
| Golf bag. | Traveling bag. |
| Hand bag. | |
- Bag. E. L. Arthur. No. 1,431,918; Oct. 17.
- Bag. A. Bruns. No. 1,426,814; Aug. 22.
- Bag. F. L. Johnson. No. 1,415,450; May 9.
- Bag. W. H. Smith. No. 1,430,267; Sept. 26.
- Bag. J. Terr. No. 1,419,425; June 13.
- Bag and envelope. W. E. Lover. No. 1,424,836; Aug. 8.
- Bag blanks, Machine for printing. A. M. Bates. No. 1,436,077; Nov. 21.
- Bag bottom. H. E. Ingram. No. 1,428,330; Sept. 5.
- Bag closing and tying machine. C. F. Sparks. No. 1,425,802; Aug. 15.
- Bag, Doll. C. H. Pajean. No. 1,407,165; Feb. 21.
- Bag, Dustproof vacuum-cleaner. H. L. Ford. No. 1,403,112; Jan. 10.
- Bag fastener. F. A. Fuller. No. 1,408,728; Mar. 7.
- Bag fastener. F. A. Fuller. No. 1,429,073; Sept. 12.
- Bag fastener. F. J. Lau. No. 1,405,524; Feb. 7.
- Bag fastener. M. B. Weinstein. No. 1,431,712; Oct. 10.
- Bag-filling machine. L. H. Hartman. No. 1,419,627; June 13.
- Bag-filling machine. C. H. Howard. No. 1,425,481; Aug. 8.
- Bag frame. W. C. Clausen. No. 1,430,057; Sept. 26.
- Bag frame. F. A. Fuller. No. 1,422,554; July 11.
- Bag frame. R. L. Prahar. No. 1,403,864; Jan. 17.
- Bag-frame fastener. H. Tueckmantel. No. 1,408,845; Mar. 7.
- Bag-frame lock. J. Brezin. No. 1,439,688; Dec. 26.
- Bag-frame lock. J. S. Isidor. No. 1,405,919; Feb. 7.
- Bag, Golf. J. S. White. No. 1,423,891; July 25.
- Bag, Hand. A. Kulick. No. 1,406,035; Feb. 7.
- Bag, Hand. J. Sims. No. 1,406,505; Feb. 14.
- Bag, Hand. H. Wiener. No. 1,407,310; Feb. 21.
- Bag handle and handle fastener therefor. W. A. Lotz. No. 1,427,608; Aug. 29.
- Bag-handle-fastening means. R. Fishbein. No. 1,434,203; Oct. 31.

- Bag holder. R. W. and W. V. Beal. No. 1,422,524; July 11.
- Bag holder. E. O. Bulman. No. 1,422,659; July 11.
- Bag holder. A. Edstrom. No. 1,403,751; Jan. 17.
- Bag holder. R. Forster. No. 1,419,244; June 13.
- Bag holder. C. R. Hellstrom. No. 1,424,017; July 25.
- Bag holder. W. H. Iverson. No. 1,405,846; Feb. 7.
- Bag holder. T. McCart. No. 1,414,575; May 2.
- Bag holder. B. F. Miller. No. 1,424,026; July 25.
- Bag holder. J. L. Morris. No. 1,432,486; Oct. 17.
- Bag holder. P. W. Pulig. No. 1,427,123; Aug. 29.
- Bag holder. J. N. Schwalen. No. 1,415,901; May 16.
- Bag holder. J. Sturrock. No. 1,415,960; May 16.
- Bag holder. F. R. White. No. 1,426,528; Aug. 22.
- Bag holder. C. A. Wright. No. 1,412,382; Apr. 11.
- Bag holder, Collapsible. W. B. Wills. No. 1,424,387; Aug. 1.
- Bag holder, Filter-. H. C. Arwe. No. 1,408,491; Mar. 7.
- Bag holder, Laundry-. P. R. Syers. No. 1,424,690; Aug. 1.
- Bag-holding table. F. L. Cupples. No. 1,431,726; Oct. 10.
- Bag lock. W. L. Caligan. No. 1,427,353; Aug. 29.
- Bag or capsule making machine, Folding device for. G. Örström. No. 1,425,044; Aug. 8.
- Bag or case, Body-suspended. L. Seiler. No. 1,416,238; May 16.
- Bag or net fastener. B. L. Herrick. No. 1,430,806; Oct. 3.
- Bag or sack holder. R. W. Erhardt and J. Schroder. No. 1,439,878; Dec. 26.
- Bag-printing mechanism. F. Lombardo. No. 1,427,905; Sept. 5.
- Bag rack. G. W. Allen. No. 1,411,895; Apr. 4.
- Bag, Traveling. M. Axelmann. No. 1,403,476; Jan. 17.
- Bag-turning machine. C. C. Reese and C. C. Brown. No. 1,405,330; Jan. 31.
- Bag-tying machine. L. D. Nelson. No. 1,429,160; Sept. 12.
- Bag-tying tool. A. M. Bates. No. 1,434,584; Nov. 7.
- Bag, Woman's hand. A. W. Jeffs. No. 1,404,528; Jan. 24.
- Bags, Apparatus for turning and cleaning. A. E. Schulz. No. 1,437,025; Nov. 28.
- Bags, Automatic opener for traveling. B. Klemmer. No. 1,419,934; June 20.
- Bags, Corner-piece or edge-piece protection for traveling. S. Dresner. No. 1,433,263; Oct. 24.
- Bags, End support for traveling. W. James. No. 1,428,098; Sept. 5.
- Bags, Frame for leather. J. E. Gates. No. 1,409,371; Mar. 14.
- Bags, Hinge structure for traveling. A. Kahlow. No. 1,438,244; Dec. 12.
- Bags, Latch for traveling. H. Coski. No. 1,403,014; Jan. 10.
- Bags, Machine for filling valve. A. W. Tyler. No. 1,427,876; Dec. 5.
- Bags, Means for holding fittings in. W. B. Smith. No. 1,430,333; Sept. 26.
- Baggage carrier. T. Bryant. No. 1,409,437; Mar. 14.
- Baggage carrier. J. H. Dyett. No. 1,429,197; Sept. 12.
- Baggage carrier. E. T. Powell. No. 1,402,958; Jan. 10.
- Baggage stand for hotel guest rooms. A. W. Slaght. No. 1,429,651; Sept. 19.
- Bagging machine. D. W. Moss. No. 1,438,254; Dec. 12.
- Bail, Adjustable. J. T. Fiese. No. 1,413,842; Apr. 25.
- Bailer. G. B. McDonell and E. L. Peck. No. 1,426,305; Aug. 15.
- Bailer bottom and manufacture. J. W. Sloan. No. 1,404,487; Jan. 24.
- Bailer structure. F. B. Alldredge. No. 1,421,363; July 4.
- Bailing machine. S. Cooper. No. 1,439,504; Dec. 19.
- Bailing machine. E. R. Koontz. No. 1,404,447; Jan. 24.
- Bails, Machine for making and attaching. A. P. Russell. No. 1,435,336; Nov. 14.
- Bait. C. B. Fisher. No. 1,406,834; Feb. 14.
- Bait, Artificial. W. Auberlin. No. 1,415,913; May 16.
- Bait, Artificial. W. Barsch. No. 1,427,147; Aug. 29.
- Bait, Artificial. W. S. Ewert. No. 1,426,283; Aug. 15.
- Bait, Artificial. W. A. Foss. No. 1,420,422; June 20.
- Bait, Artificial. F. L. Koepke. No. 1,415,653; May 9.
- Bait, Artificial. C. T. Pfeuger and W. L. Adams. No. 1,418,326; June 6.
- Bait, Artificial. W. A. Stolley. No. 1,424,385; Aug. 1.
- Bait, Artificial fish. W. N. Grounseil. No. 1,434,204; Oct. 31.
- Bait, Artificial fishing. P. E. Gross. No. 1,430,642; Oct. 3.
- Bait for fishing purposes, Spinning. G. S. S. Watkins. No. 1,420,228; June 20.
- Bait for flytraps. J. W. Skelton. No. 1,407,092; Feb. 21.
- Bait or lure, Fish. W. A. Stolley. No. 1,430,336; Sept. 26.
- Baker, Steam. L. B. Talbott. No. 1,406,777; Feb. 14.
- Baker's peel board. M. A. Snyder. No. 1,410,419; Mar. 21.
- Bakery products, Apparatus for disinfecting. C. J. Patterson. No. 1,437,907; Dec. 5.
- Baking. K. T. Snyder. No. 1,414,439; May 2.
- Baking apparatus. A. H. Ballard. Nos. 1,434,035-6; Oct. 31.
- Baking apparatus. F. Lehmann. No. 1,436,989; Nov. 28.
- Baking machine, Ice-cream-cone. L. Berzon and J. Brezin. No. 1,432,049; Oct. 17.
- Baking material (downdraft kilns), Apparatus for. I. M. Justice and G. A. Willigman. No. 1,405,593; Feb. 7.
- Baking pan. J. G. Jackson. No. 1,416,208; May 16.
- Baking pan. C. V. Putnam and R. F. Trimmer. No. 1,419,756; June 13.
- Baking utensil. I. Every. No. 1,427,796; Sept. 5.
- Balance. C. A. Becker. No. 1,404,426; Jan. 24.
- Balance, Calculating. A. E. Krick. No. 1,429,907; Sept. 19.
- Balance, Magnetic. T. S. Bindschedler. No. 1,428,833; Sept. 12.
- Balance plates, Suspension for. J. T. F. Conti. No. 1,424,239; Aug. 1.
- Balancing machine. W. B. Flanders. No. 1,437,798; Dec. 5.
- Balata, Deresinating and purifying. C. H. Keith and N. G. Madge. No. 1,406,654; Feb. 14.
- Baldness, Headgear for preventing. G. S. MacLeod. No. 1,434,745; Nov. 7.
- Bale cutter. E. Eger. No. 1,405,401; Feb. 7.
- Bale hook. H. C. Leadley. No. 1,413,170; Apr. 18.
- Bale marker. W. P. Daniel. No. 1,407,735; Feb. 28.
- Bale tie. J. F. Stauffer and J. P. Rowland. No. 1,416,587; May 16.
- Bale tie, Wire. A. K. Jefferson. No. 1,409,724; Mar. 14.
- Baling-machine plunger. W. F. Mottier. No. 1,411,367; Apr. 4.
- Baling press. T. Cook. No. 1,426,819; Aug. 22.
- Baling press. L. L. Jones. No. 1,408,599; Mar. 7.
- Baling press. G. Welger. No. 1,412,021; Apr. 4.
- Baling-press indicator. E. T. Kissinger. No. 1,431,587; Oct. 10.
- Baling presses, Material feeding and cutting mechanism for. J. A. Stobie. No. 1,437,921; Dec. 5.
- Ball; See—
- Fuller ball. Golf ball.
- Ball. W. H. Clark. No. 1,421,407; July 4.
- Ball. J. De Gowin. No. 1,423,837; July 25.
- Ball. C. D. Hoppes. No. 1,431,732; Oct. 10.
- Ball-and-socket device. H. F. Whitted. No. 1,425,730; Aug. 15.
- Ball-and-socket joint. I. D. Shaw. No. 1,428,715; Sept. 12.
- Ball-counting machine. M. Perdue and W. A. Shaw. No. 1,438,189; Dec. 12.
- Ball-forming machine. J. P. Appleby. No. 1,404,334; Jan. 24.
- Ball, Golf. A. S. Chatfield. No. 1,426,712; Aug. 22.
- Ball, Golf. J. White. No. 1,418,220; May 30.
- Ball-grinding machine. R. W. Svenning. No. 1,404,169; Jan. 17.
- Ball-lapping machine. A. F. Rockwell. No. 1,419,078; June 6.
- Ball-lapping machine. R. W. Sellow. No. 1,418,887; June 6.
- Ball-loading device. H. M. Rockwell. No. 1,419,519; June 13.
- Ball machine. R. Grey. No. 1,410,851; Mar. 28.
- Ball machine, Soft-. S. P. Shukie. No. 1,431,052; Oct. 3.
- Ball mill. C. A. Duncan and A. Nelson. No. 1,412,390; Apr. 11.
- Ball projector. B. L. Blair. No. 1,419,445; June 13.
- Ball projector. F. Blando. Nos. 1,419,538-9; June 13.
- Ball rack. E. Hedenskoog. No. 1,418,075; May 30.
- Ball retainer. S. R. Cooper. No. 1,412,453; Apr. 11.
- Ball-rolling apparatus. F. M. Canda. No. 1,419,817; June 13.
- Ball-rolling machine, Metal-. C. T. Coates. No. 1,429,676; Sept. 19.
- Ball-winding machine. E. G. Loomis. No. 1,423,807; July 25.
- Balls and like hollow articles, Making tennis. W. A. Gibbons. No. 1,415,437; May 9.
- Balls, Apparatus for the manufacture of metallic. A. W. Albrecht. No. 1,419,599; June 13.
- Balls, Apparatus for the revision of. R. W. Svenning. No. 1,429,797; Sept. 19.
- Balls, Balancing. R. F. Arnott. No. 1,424,191; Aug. 1.
- Balls, Ball bearing provided with an entrance opening for the. J. L. Borg. No. 1,405,894; Feb. 7.
- Balls between race members, Inserting. H. M. Rockwell. No. 1,419,521; June 13.
- Balls, Covering tennis. W. A. Gibbons. No. 1,415,438; May 9.
- Balls, Machine for the manufacture of metallic. H. S. Albrecht. No. 1,438,206; Dec. 12.
- Balls, Machine for winding golf. J. S. White and J. Sekevec. No. 1,435,771; Nov. 14.
- Balls, Making sponge. K. Takashima. No. 1,402,682; Jan. 3.
- Balls, Making sponge-rubber. T. W. Miller. No. 1,409,059; Mar. 7.
- Balls, Mechanism for forming. A. W. Albrecht. No. 1,432,514; Oct. 17.
- Balls, Method and apparatus for covering. I. De Gowin. No. 1,423,838; July 25.
- Ballast-cleaning machine. H. D. Pratt. No. 1,404,999; Jan. 31.
- Ballast device. W. B. Weyrick. No. 1,430,868; Oct. 3.
- Ballistic investigation and measurement, Optical apparatus for. R. Rouge. No. 1,432,360; Oct. 17.
- Balloon, Dirigible. J. W. Gilbert. No. 1,426,726; Aug. 22.
- Balloon fabric and the like. W. A. Williams. No. 1,427,708; Aug. 29.

Alphabetical list of inventions—Continued.

- Balloons and dirigible airships, Fabric used in the manufacture of. A. Johnston. No. 1,407,197; Feb. 21.
- Balloons, Car suspension for. R. S. Bamberger. No. 1,419,205; June 13.
- Balloons, Deflating and safety valve for gas-filled. K. F. Kappes. No. 1,408,603; Mar. 7.
- Balloons, Sextant for use with. R. S. Olmsted. No. 1,425,682; Aug. 15.
- Ballot, J. S. Baker. No. 1,410,984; Mar. 28.
- Ballot, C. G. Hoag. No. 1,404,611; Jan. 24.
- Ballot protector. L. A. Crowley. No. 1,415,020; May 9.
- Ballot tally sheet. R. G. Cotter. No. 1,416,792; May 23.
- Baluster-railing construction. A. S. Hughes. No. 1,416,957; May 23.
- Banana unloader. J. Brennan. No. 1,422,656; July 11.
- Band, Adjustable. K. E. Englund. No. 1,414,731; May 2.
- Bandage cutter. G. E. Halcumb. No. 1,407,151; Feb. 21.
- Bandage, Foot. W. Ruge. No. 1,406,583; Feb. 14.
- Bandages, Producing suspensory. A. P. Stokes. No. 1,429,545; Sept. 19.
- Band brake. W. J. Loury. No. 1,402,365; Jan. 3.
- Band brake, Attachable. H. Altergott. No. 1,417,880; May 30.
- Band clip. C. I. Lopdell. Nos. 1,412,187-9; Apr. 11.
- Band cutter. S. V. Cochrane. No. 1,421,764; July 4.
- Band-cutter-cutting machines, Driving and control device for. B. F. Stowell. No. 1,434,235; Oct. 31.
- Band, Infant's. S. Cunningham. No. 1,413,459; Apr. 18.
- Band, Infant's. H. L. Redmond. Nos. 1,425,898-9; Aug. 15.
- Band-joining device. J. D. Browne. No. 1,415,918; May 16.
- Band-saw-brazing clamp. W. C. Cormack. No. 1,407,188; Feb. 21.
- Band-saw guide. W. W. Paddock. No. 1,415,386; May 9.
- Band-saw machine. E. Johnson. No. 1,416,355; May 16.
- Band tightener. S. C. Cary. No. 1,412,165; Apr. 11.
- Bands of rolls simultaneously and equally, Device for tightening. M. Maag and E. Buchter. No. 1,405,852; Feb. 7.
- Bands or tapes, Coupling for driving. W. Dargue. No. 1,413,972; Apr. 25.
- Bandit trap. M. and Y. W. Chambers. No. 1,428,002; Sept. 5.
- Banjo. R. A. Carlucci. No. 1,419,818; June 13.
- Banjo. J. Favilla. No. 1,405,771; Feb. 7.
- Banjo. P. Gardie. No. 1,424,296; Aug. 15.
- Banjo. E. N. Guckert. No. 1,422,239; Apr. 11.
- Banjo. T. J. McIlugh and D. C. Mafit. No. 1,402,876; Jan. 10.
- Banjo. A. L. Williams. No. 1,407,108; Feb. 21.
- Banjo attachment. K. Kottmeyer. No. 1,430,086; Sept. 26.
- Banjo resonator. R. Stegmann. No. 1,435,027; Nov. 7.
- Banjo structure. C. Parker. No. 1,422,769; July 11.
- Banjo ukelele. R. A. Carlucci. No. 1,409,078; Mar. 7.
- Bank bills, Container for holding. C. Healy. No. 1,424,356; Aug. 1.
- Bank, Book or box like form savings. L. V. Aronson. No. 1,408,795; Mar. 7.
- Bank, Coin-actuated calendar. R. B. Hayden. No. 1,403,601; Jan. 17.
- Bank-deposit receiver. J. K. Lowe. No. 1,425,400; Aug. 8.
- Bank deposit slip. W. T. Innes. No. 1,439,820; Dec. 26.
- Bank fixture, Clear-vision. A. E. Peyton. No. 1,420,942; June 27.
- Bank, Home savings. V. Edwards. No. 1,432,680; Oct. 17.
- Bank-protecting device. A. C. Ragsdale. No. 1,431,755; Oct. 10.
- Bank-protection system. W. F. Cervenka. No. 1,420,520; June 20.
- Bank protective apparatus. W. F. Cervenka. No. 1,427,065; Aug. 22.
- Bank protective apparatus. W. C. Wood. No. 1,435,038; Nov. 7.
- Bank, safe, and vault lock. L. Bailly. No. 1,406,813; Feb. 14.
- Bank, Savings. C. Fisher. No. 1,403,854; Jan. 17.
- Bank, Savings. J. H. Greer. No. 1,417,164; May 23.
- Bank, Savings. V. L. Jacobsen. No. 1,412,526; Apr. 11.
- Bank savings system. M. H. Shadinger and C. M. Jones. No. 1,429,461; Sept. 19.
- Banker. G. F. Fletcher. No. 1,409,163; Mar. 14.
- Banker's protecting stand. D. Gudeman. No. 1,414,568; May 2.
- Banks and the like, Apparatus for protecting. J. W. Clarkson and C. A. Dimler. No. 1,419,491; June 13.
- Banks, Lock for small coin. I. J. Kusel. No. 1,413,538; Apr. 18.
- Banks or the like, Protecting apparatus for. J. Smith. No. 1,433,489; Oct. 24.
- Banks, Preventing the undermining of water-washed. O. S. Schiefele. No. 1,428,808; Sept. 12.
- Banks, Safety door for. J. B. Mitchell. No. 1,413,233; Apr. 18.
- Bar: See—
- Automobile towing bar. Handle bar.
- Bumper bar. Horizontal bar.
- Checker bar. Iron bar.
- Claw bar. Lingual bar.
- Concrete-reinforcing bar. Multicutting bar.
- Connecting bar. Pinch bar.
- Fire bar. Reenforcing bar.
- Furnace grate bar. Riveting bar.
- Grate bar. Spacing bar.
- Grip handle bar. Tow and push bar.
- Bar and tongs, Slice. O. F. Bergman. No. 1,432,952; Oct. 24.
- Bar bender. T. Kardong. No. 1,425,261; Aug. 8.
- Bar cutting and straightening apparatus. J. F. Gail. No. 1,424,465; Aug. 1.
- Bar reverser. H. B. Rose. No. 1,406,084; Feb. 7.
- Bar spacer. C. J. O'Brien. No. 1,427,316; Aug. 29.
- Bar-spacing device. W. E. White. No. 1,422,157; July 11.
- Bars and shiftings, Apparatus for finishing cylindrical. H. M. Brightman. No. 1,411,474; Apr. 4.
- Bars, Saddle for reinforcing. A. G. Hatch. No. 1,406,379; Feb. 14.
- Barber chair. E. C. Blum. No. 1,434,804; Nov. 7.
- Barber chairs, Attachment for. F. H. Kramer. No. 1,411,572; Apr. 4.
- Barber's appliance. E. D. Campbell. No. 1,413,515; Apr. 18.
- Barbers' chairs, Reclining-bar clamp for. W. F. Koken. No. 1,425,325; Aug. 8.
- Barber's equipment receptacle. G. D. Vought. No. 1,416,767; May 23.
- Barbing machine reel. T. Alexander. No. 1,440,122; Dec. 26.
- Barge. G. C. Engstrand. No. 1,403,899; Jan. 17.
- Barge, Fueling. A. F. Case. No. 1,427,091; Aug. 29.
- Barge, Log-carrying. B. L. Johnson. No. 1,426,990; Aug. 22.
- Barge, Waste-fuel-oil-salvaging. H. M. Fackert. No. 1,406,950; Feb. 14.
- Barges and similar vessels, Conveyor for. N. and N. A. Fay. No. 1,437,506; Dec. 5.
- Barium chloride, Producing. J. H. MacMahon. No. 1,428,646; Sept. 12.
- Barium peroxide, Process and apparatus for the production of. A. J. Jewell. No. 1,438,377; Dec. 12.
- Bark, Method of and apparatus for making artificial. D. Rossi. No. 1,407,950; Feb. 28.
- Bark-removing machine. H. L. Crouse and C. M. Johnson. No. 1,438,904; Dec. 12.
- Barn-cleaning implement. F. A. Kruse. No. 1,426,653; Aug. 22.
- Barn-cleaning mechanism. F. A. Kruse. No. 1,426,654; Aug. 22.
- Barn, Dairy. I. H. Evans. No. 1,426,266; Aug. 15.
- Barometric condenser. W. S. Elliott. No. 1,427,792; Sept. 5.
- Barrel. J. R. Raible. No. 1,423,254; July 18.
- Barrel, Collapsible. P. Schepp and J. Flack. No. 1,407,487; Feb. 21.
- Barrel, Composite. S. A. Knapp. No. 1,438,119; Dec. 5.
- Barrel-forming machine. J. L. Walker. No. 1,437,573; Dec. 5.
- Barrel-head-securing device. J. Cappel. No. 1,420,019; June 20.
- Barrel-hoop-driving machine. J. G. Imfeld. No. 1,411,436; Apr. 4.
- Barrel, Knockdown. G. A. Le Fevre. No. 1,417,337; May 23.
- Barrel lift. H. Hermelink, Jr., and R. B. Shiffner. No. 1,420,546; June 20.
- Barrel lining. W. A. Lorenz. No. 1,434,783; Nov. 7.
- Barrel-making machine. J. L. Walker. No. 1,437,575; Dec. 5.
- Barrel, Metal. O. F. A. E. Grumpelt. No. 1,403,404; Jan. 10.
- Barrel or drum construction. J. L. Walker. No. 1,430,419; Sept. 26.
- Barrel, Polishing and tumbling. F. Winkler. No. 1,426,435; Aug. 22.
- Barrel, Sheet-metal. J. W. McNeil. No. 1,417,617; May 30.
- Barrel, Sheet-metal. J. W. McNeil. No. 1,428,337; Sept. 5.
- Barrel stand. W. N. Terry. No. 1,440,117; Dec. 26.
- Barrel-stave-cutting machine. I. D. Starcher and C. E. Young. No. 1,436,059; Nov. 21.
- Barrel, Steel. R. Mallu. No. 1,432,075; Oct. 17.
- Barrel tallying machine. L. M. Whitehead. No. 1,406,314; Feb. 14.
- Barrel tube, Working. E. Ivins. No. 1,420,551; June 20.
- Barrel, Tumbling. N. Ransohoff. (Reissue.) No. 15,498.
- Barrels, Attachment for filling. A. Matuschak and A. Langsch. No. 1,427,965; Sept. 5.
- Barrels, Bung for. C. L. Hooper. No. 1,402,231; Jan. 3.
- Barrels, drums, and like receptacles, Closure for the heads of metal. W. B. Goddard. No. 1,438,757; Dec. 12.
- Barrels, Filling. A. M. Bates. No. 1,434,583; Nov. 7.
- Barrels, Machine for heading up. E. F. Begler. No. 1,404,923; Jan. 31.
- Barrette. M. D. Meserole. No. 1,422,464; July 11.
- Barrier gate. L. S. Black. No. 1,416,162; May 16.
- Barrow and scraper, Combined. E. A. Transmeier. No. 1,425,124; Aug. 8.

- Base. W. H. Francis. No. 1,433,996; Oct. 31.
 Baseball. Home plate for. F. W. Ingols. No. 1,432,293; Oct. 17.
 Baseball. Table. C. W. Wagner. No. 1,406,308; Feb. 14.
 Baseball target. E. C. Shears. No. 1,418,207; May 30.
 Baseboard and siding gauge and marker. M. C. Walter. No. 1,405,366; Jan. 31.
 Basin-cock wrench. P. Mueller. No. 1,434,401; Nov. 7.
 Basins. Apparatus for cleaning sewer catch. G. W. Ottersson. No. 1,437,007; Nov. 28.
 Basins. Cleaning out city catch. G. W. Otterson. No. 1,437,006; Nov. 28.
 Basins. Traveling apparatus for cleaning. G. W. Otterson. No. 1,437,008; Nov. 28.
 Basket. G. C. W. Goss. No. 1,433,451; Oct. 24.
 Basket. G. S. Griner. No. 1,420,542; June 20.
 Basket. C. Halaska. No. 1,423,419; July 18.
 Basket. C. L. Hoover. No. 1,438,038; Dec. 5.
 Basket. A. H. Lavietes. No. 1,408,011; Feb. 28.
 Basket. T. M. Woodhull. No. 1,418,508; June 6.
 Basket. Collapsible and foldable candy. K. Sayo. No. 1,412,971; Apr. 18.
 Basket cover, Fruit-. J. B. Kenny. No. 1,408,949; Mar. 7.
 Basket. Developing. G. B. Lambert. No. 1,429,889; Sept. 19.
 Basket, Fruit. J. B. Kenny. No. 1,425,262; Aug. 8.
 Basket handle and lid fastener. G. R. Fowler. No. 1,424,009; July 25.
 Basket. Household cleaning. C. W. Patterson. No. 1,431,839; Oct. 10.
 Basket, Market. G. R. Amon. No. 1,439,392; Dec. 19.
 Basket, Metal. A. P. Lee. No. 1,404,154; Jan. 17.
 Basket, Sanitary waste. D. E. Watkins. No. 1,421,628; July 4.
 Basket stand, Folding. A. J. Dremel. No. 1,413,710; Apr. 25.
 Basket, Waste. M. Weinman. No. 1,427,879; Sept. 5.
 Basket, Woven. G. E. Lewis. No. 1,408,367; Feb. 28.
 Basketware. Finishing articles in. G. B. Ambler and H. F. Shaw. No. 1,424,972; Aug. 8.
 Bassinet. A. Pomilio. No. 1,422,619; July 11.
 Bassinet and swing, Combined. H. S. Burns. No. 1,435,148; Nov. 14.
 Bassinette, Folding. H. Behr. No. 1,424,796; Aug. 8.
 Batch box. J. H. Mosel. No. 1,408,383; Feb. 28.
 Bath: See—
 Electromagnetic wave bath. Photographic bath.
 Bath and dressing table, Collapsible. W. J. Jackson. No. 1,427,598; Aug. 29.
 Bath and refrigerator. Combined cold-water. E. H. Ruediger. No. 1,412,198; Apr. 11.
 Bath appliance. W. Novack. No. 1,404,407; Jan. 24.
 Bath cabinet. Electrical. H. A. Greenawalt. No. 1,436,090; Nov. 21.
 Bath cabinet, Nursery. A. B. Aper. No. 1,409,330; Mar. 14.
 Bath-cabinet-supporting frame. F. Hnilo and J. Schultz. No. 1,425,772; Aug. 15.
 Bath-cabinet vaporizer. J. F. Kruse. No. 1,421,502; July 4.
 Bath chair, Infant's. F. J. Reilly. No. 1,414,897; May 2.
 Bath device. A. F. Heine. No. 1,407,030; Feb. 21.
 Bath devices. Heating apparatus for vapor-. O. L. Carroll. No. 1,410,164; Mar. 21.
 Bath fitting. L. Bloch. No. 1,416,599; May 16.
 Bathing apparatus. W. L. Deming. No. 1,416,270; May 16.
 Bathing appliance. W. C. Dyer. No. 1,437,296; Nov. 28.
 Bathing cap. W. E. Bush. No. 1,436,235; Nov. 21.
 Bathing costume. P. Toborek and F. Zambrini. No. 1,432,643; Oct. 17.
 Bathing pool. M. I. Wheeler. No. 1,438,800; Dec. 12.
 Bathing suits. G. A. Mattern. No. 1,421,704; July 4.
 Bathing tent. R. L. Smith. No. 1,409,316; Mar. 14.
 Bathtub. C. T. E. Gould. No. 1,438,373; Dec. 12.
 Bathtub. R. F. Schiller. No. 1,436,538; Nov. 21.
 Bathtub. E. F. Schwartz. No. 1,432,916; Oct. 24.
 Bathtub. T. J. Swift. No. 1,426,519; Aug. 22.
 Bathtub installation. E. J. Seither. No. 1,414,792; May 2.
 Bathtub leg, Detachable. R. H. Heberling. No. 1,429,424; Sept. 19.
 Bathtubs. Safety device for. C. J. and J. E. Johnson. No. 1,405,222; Jan. 31.
 Bathtubs. Shower attachment for. L. R. Patton. No. 1,406,070; Feb. 7.
 Bathtubs. Shower or spraying attachment for. W. C. Booth. No. 1,415,014; May 9.
 Bathtubs. Sustaining means for infants'. C. C. Kehn. No. 1,422,718; July 11.
 Bathtubs. Waste and overflow attachment for. L. B. Yeiser. No. 1,427,567; Aug. 29.
 Batter. Mechanical. C. H. Muckenhirn. No. 1,423,009; July 18.
 Batteries. Connector for storage. H. E. Walker. No. 1,421,355; June 27.
 Batteries. Cover construction for storage. W. Gardiner. No. 1,433,542; Oct. 31.
 Batteries. Depolarizer for primary. R. C. Benner and H. F. French. No. 1,415,860; May 16.
 Batteries. Implement for removing separators from storage. E. A. Foetisch. No. 1,418,554; June 6.
 Batteries. Making electric storage. H. M. Williams. No. 1,417,007; May 23.
 Batteries. Means for charging storage. C. E. Ogden. Nos. 1,430,106-7; Sept. 26.
 Batteries. Plate terminal for storage. B. Ford. No. 1,433,680; Oct. 31.
 Batteries. Separator for storage. C. Pottratz. No. 1,410,595; Mar. 28.
 Batteries. Terminal structure for electric. T. R. Cook. No. 1,411,988; Apr. 4.
 Batteries. Terminal structure for electric. T. R. Cook and P. E. Norris. No. 1,411,989; Apr. 4.
 Batteries. Treating and restoring used storage. H. E. Hunt. No. 1,430,167; Sept. 26.
 Batteries. Treating separators for storage. H. W. Nordyke. No. 1,415,683; May 9.
 Batteries. Water-replenishing device for storage. G. H. Hickman. No. 1,415,559; May 9.
 Battery: See—
 Dry battery. Primary battery.
 Electric battery. Reversible battery.
 Electric storage battery. Secondary battery.
 Miner's blasting battery. Storage battery.
 Battery. W. Balderston. No. 1,404,262; Jan. 24.
 Battery. O. P. Fritchle. No. 1,415,541; May 9.
 Battery. F. Garaca. No. 1,415,832; May 9.
 Battery. H. T. Hipwell. No. 1,415,033; May 9.
 Battery. E. J. Petrie. No. 1,405,627; Feb. 7.
 Battery. D. Rosen. No. 1,417,692; May 30.
 Battery. J. Smith. No. 1,402,185; Jan. 3.
 Battery. L. W. Willis. No. 1,437,287; Nov. 28.
 Battery box. A. P. Taber. No. 1,434,321; Oct. 31.
 Battery case, Weatherproof. A. S. Lyhne. No. 1,439,430; Dec. 19.
 Battery cell. M. E. Fuld. No. 1,439,956; Dec. 26.
 Battery-cell seal. W. H. Grimditch. No. 1,402,599; Jan. 3.
 Battery-charging apparatus. A. J. Horton. No. 1,433,455; Oct. 24.
 Battery-charging apparatus. A. J. Horton. No. 1,439,893; Dec. 26.
 Battery connector. G. E. Lundberg. No. 1,421,017; June 27.
 Battery-connector mold. A. H. Gebhardt. No. 1,415,027; May 9.
 Battery construction. A. L. Muren. No. 1,416,738; May 23.
 Battery construction, Storage-. R. S. Blair. No. 1,416,327; May 16.
 Battery container. R. W. Taylor. No. 1,425,721; Aug. 15.
 Battery counter cell, Storage. W. E. Kershaw. No. 1,437,470; Dec. 5.
 Battery cover. E. A. Berry. No. 1,419,208; June 13.
 Battery cover. B. Kunkel. No. 1,424,144; July 25.
 Battery cup. J. M. Olin. No. 1,438,779; Dec. 12.
 Battery device. J. I. Holcomb and J. F. Hoke, Jr. No. 1,410,307; Mar. 21.
 Battery, Dry. W. B. Schulte. No. 1,408,140; Feb. 28.
 Battery electrolyte. Electric-. L. G. Orsolino. No. 1,427,011; Aug. 22.
 Battery element and forming the same. A. Cellino. No. 1,433,602; Oct. 31.
 Battery fastener. J. Miller. No. 1,438,130; Dec. 5.
 Battery filler. A. A. Boston. No. 1,423,393; July 18.
 Battery grid and making same. H. L. Edney. No. 1,432,845; Oct. 24.
 Battery grip. C. E. Johnson. No. 1,422,765; July 11.
 Battery handlamp. E. Alschuler. No. 1,409,147; Mar. 14.
 Battery holder. A. S. Lyhne. No. 1,439,429; Dec. 19.
 Battery holder and fastener. F. E. Keller. No. 1,430,741; Oct. 3.
 Battery jar and making same. E. S. Boyer. No. 1,425,574; Aug. 15.
 Battery jars and other hard rubber receptacles. Machine for making. J. W. Bishop. No. 1,407,979; Feb. 28.
 Battery jars, Machine for making. J. W. Bishop. No. 1,407,980; Feb. 28.
 Battery jars. Process of and apparatus for making. J. E. Perrault and C. H. Roper. No. 1,412,962; Apr. 18.
 Battery plate. J. N. Hanna. No. 1,440,354; Dec. 26.
 Battery plate. W. Roberts. No. 1,414,710; May 2.
 Battery plate-finishing machine. P. E. Norris and C. H. Witmer. No. 1,404,050; Jan. 17.
 Battery plate, Storage-. B. Ford. No. 1,437,468; Dec. 5.
 Battery plates, Process and apparatus for treating storage-. H. M. Martin. No. 1,402,631; Jan. 3.
 Battery post. E. A. Miller. No. 1,434,307; Oct. 31.
 Battery rack. H. E. Peers. No. 1,410,716; Mar. 28.
 Battery repairing. Combined steamer, still, and burner for. E. R. Williams. No. 1,433,055; Oct. 24.
 Battery separator. W. H. Wood and H. E. Smith. No. 1,432,938; Oct. 24.
 Battery-spacer-making machine. J. W. Buckhart. No. 1,404,713; Jan. 24.
 Battery-temperature controller. C. E. Limebarger. No. 1,424,731; Aug. 1.
 Battery terminal. H. R. Mitchell. No. 1,438,454; Dec. 12.
 Battery terminal, Storage-. E. F. Andreae. No. 1,420,675; June 27.
 Battery terminals. Sealing device for. E. G. Templeton. No. 1,432,806; Oct. 24.
 Battery tester. J. H. Miller. No. 1,408,759; Mar. 7.
 Battery vise. H. G. Leffingwell. No. 1,408,954; Mar. 7.

Alphabetical list of inventions—Continued.

- Battery watering device. D. A. Lawson. No. 1,403,041; Jan. 10.
- Bat tie, Adjustable. C. White. No. 1,431,070; Oct. 3.
- Bauxite and emery, Manufacturing artificial abrasives from. C. J. Brockbank. No. 1,402,714; Jan. 3.
- Bayonets. C. de Mauraige. No. 1,419,961; June 20.
- Bead construction. T. Midgley. No. 1,403,091; Jan. 10.
- Bead-covering machine. E. D. Putt. No. 1,409,467; Mar. 14.
- Bead-cut-off machine. W. C. Stevens and E. D. Putt. No. 1,407,712; Feb. 28.
- Beading and curling machine, Can. J. Eichman and E. J. Watson. No. 1,412,232; Apr. 11.
- Beading cloth, Method of and apparatus for. O. L. Halpern. No. 1,433,203; Oct. 24.
- Beading-tool retainer. C. Bush. No. 1,420,240; June 20.
- Bead-making machine. W. E. Horrocks. No. 1,415,566; May 9.
- Bead threader. W. W. Bolls. No. 1,417,713; May 30.
- Beads, Strung. M. Wormser. No. 1,412,731; Apr. 11.
- Beam and reel. F. Mossberg. No. 1,426,898; Aug. 22.
- Beam hanger. F. M. Mechling. No. 1,426,834; Aug. 22.
- Beam head. F. Mossberg. No. 1,433,402; Oct. 24.
- Beam heads, Making. F. Mossberg. No. 1,428,970; Sept. 12.
- Beaming machine. G. W. Kuenneth. No. 1,412,877; Apr. 18.
- Beam structure. A. P. Lundin. No. 1,429,600; Sept. 19.
- Beam, Warp-dyeing. F. M. Morton. No. 1,404,634; Jan. 24.
- Beams and columns, Clamping device for. J. W. Jeter. No. 1,408,301; Feb. 28.
- Bean buncher. J. M. McIntyre. No. 1,424,839; Aug. 8.
- Bean-cutting machine, String-. F. C. Lewis. No. 1,433,630; Oct. 31.
- Bean-picking machine. G. F. Crippen. No. 1,413,969; Apr. 25.
- Bean sheller. B. Morelock. No. 1,419,072; June 6.
- Bean-snipping machine. A. P. Wolfe. No. 1,436,746; Nov. 28.
- Beans and other articles, Machine for snipping. W. F. Probst. No. 1,432,899; Oct. 24.
- Bearing. P. A. E. Armstrong. No. 1,422,812; July 18.
- Bearing. W. W. Bowman. No. 1,415,142; May 9.
- Bearing. T. V. Buckwalter. No. 1,437,834; Dec. 5.
- Bearing. R. J. Dearborn. Nos. 1,412,341-2; Apr. 11.
- Bearing. K. Gaudie. No. 1,421,208; June 27.
- Bearing. M. F. Geer. No. 1,402,349; Jan. 3.
- Bearing. E. H. Grafton. No. 1,430,074; Sept. 26.
- Bearing. R. H. Griffith. No. 1,439,161; Dec. 19.
- Bearing. O. E. Hovey. No. 1,436,259; Nov. 21.
- Bearing. G. W. Hoyt. No. 1,403,959; Jan. 17.
- Bearing. A. Kingsbury. No. 1,403,694; Jan. 17.
- Bearing. A. Kingsbury. No. 1,412,353; Apr. 11.
- Bearing. A. Kingsbury. No. 1,417,072; May 23.
- Bearing. A. Kingsbury. No. 1,421,695; July 4.
- Bearing. A. Kingsbury. No. 1,422,448; July 11.
- Bearing. A. Kingsbury. No. 1,425,979; Aug. 15.
- Bearing. A. Kingsbury. No. 1,428,640; Sept. 12.
- Bearing. A. Kingsbury. No. 1,429,744; Sept. 19.
- Bearing. A. Kingsbury. No. 1,440,299; Dec. 26.
- Bearing. A. Kingsbury and H. A. S. Howarth. No. 1,409,552; Mar. 14.
- Bearing. A. Kingsbury and F. L. O. Wadsworth. No. 1,436,265; Nov. 21.
- Bearing. H. C. Knowles. No. 1,421,789; July 4.
- Bearing. B. S. Moore. No. 1,424,315; Aug. 1.
- Bearing. C. A. Parsons and S. S. Cook. Nos. 1,438,053-4; Dec. 5.
- Bearing. H. G. Reist. No. 1,430,850; Oct. 3.
- Bearing. C. F. Sherwood. No. 1,416,988; May 23.
- Bearing. J. A. V. Turk. No. 1,416,246; May 16.
- Bearing. L. H. Vervoort. No. 1,410,971; Mar. 28.
- Bearing. F. L. O. Wadsworth. No. 1,419,782; June 13.
- Bearing. F. L. O. Wadsworth. No. 1,437,788; Dec. 5.
- Bearing. L. E. Waite. No. 1,426,130; Aug. 15.
- Bearing. J. B. Williams. No. 1,429,663; Sept. 19.
- Bearing, Adjustable. G. Fuegel and H. Schmid. No. 1,426,173; Aug. 15.
- Bearing, Adjustable. W. W. Thiede. No. 1,409,260; Mar. 14.
- Bearing alarm. H. L. Henderson. No. 1,427,593; Aug. 29.
- Bearing and making same. W. G. H. Brehmer. No. 1,422,655; July 11.
- Bearing and making same, Self-lubricating. W. H. Kempton. No. 1,430,560; Oct. 3.
- Bearing, Antifriction. A. P. Brush. No. 1,404,430; Jan. 24.
- Bearing, Antifriction. A. P. Brush. No. 1,426,353; Aug. 22.
- Bearing, Antifriction. T. V. Buckwalter. No. 1,437,833; Dec. 5.
- Bearing, Antifriction. T. V. Buckwalter. No. 1,439,401; Dec. 19.
- Bearing, Antifriction. W. A. Geiger. No. 1,405,681; Feb. 7.
- Bearing, Antifriction. H. C. Knowles. No. 1,416,838; May 23.
- Bearing, Antifriction. H. C. Knowles. No. 1,439,901; Dec. 26.
- Bearing, Antifriction. H. N. Parsons. No. 1,411,806; Apr. 4.
- Bearing, Antifriction. H. N. Parsons. No. 1,420,339; June 20.
- Bearing, Antifriction ball or roller. K. O. Leon. No. 1,423,950; July 25.
- Bearing assembly. C. H. Wills. No. 1,421,644; July 4.
- Bearing, Ball. C. E. Campbell. No. 1,408,266; Feb. 28.
- Bearing, Ball. L. Langhaar. No. 1,423,666; July 25.
- Bearing, Ball. K. W. Lindman. No. 1,425,872; Aug. 15.
- Bearing, Ball. R. R. Searles. No. 1,418,886; June 6.
- Bearing, Ball. R. W. Sellev. No. 1,418,888; June 6.
- Bearing, Ball. W. A. Whitney. No. 1,403,367; Jan. 10.
- Bearing, Ball. E. Williams. No. 1,426,236; Aug. 15.
- Bearing cage, Ball-. H. Schmidt. No. 1,411,303; Apr. 4.
- Bearing cage, Roller-. W. C. Keys. No. 1,418,652; June 6.
- Bearing, Compound ball. G. Kennedy. No. 1,433,014; Oct. 24.
- Bearing construction for fans. L. Schwitzer. No. 1,423,265; July 18.
- Bearing-cup puller. F. Carlisle. No. 1,429,567; Sept. 19.
- Bearing, Disk-. J. C. Bohmker. No. 1,422,918; July 18.
- Bearing disk wheel, Ball-. G. H. Palmer. No. 1,408,825; Mar. 7.
- Bearing, Dustproof ball. J. Dlesk. No. 1,420,416; June 20.
- Bearing for crank shafts, Thrust. J. J. Frank. No. 1,429,499; Sept. 19.
- Bearing for horizontal or inclined shafts. A. Kingsbury. No. 1,425,978; Aug. 15.
- Bearing for hydraulic turbine shafts. E. U. Gibbs. Nos. 1,425,378-9; Aug. 8.
- Bearing for machinery. M. Leitch. No. 1,425,664; Aug. 15.
- Bearing for radial and thrust loads, Roller. G. L. Boulisier. No. 1,411,837; Apr. 4.
- Bearing for shafts, etc., Split lubricating. P. G. Bogdanoff. No. 1,421,661; July 4.
- Bearing for steam turbines. C. W. Dake. No. 1,421,918; July 4.
- Bearing for the cam disks of cam-disk gearings, Roller. F. Martin. No. 1,419,681; June 13.
- Bearing gauge. W. M. Page. No. 1,439,321; Dec. 19.
- Bearing hanger, Ball-. G. I. Snyder. No. 1,419,420; June 13.
- Bearing, High-speed. C. B. Reese. No. 1,402,794; Jan. 10.
- Bearing, High-speed. H. T. Shearer. No. 1,437,560; Dec. 5.
- Bearing, Journal. H. T. Newbigin. No. 1,405,817; Jan. 31.
- Bearing, Lubricated side. E. G. Busse. No. 1,435,803; Nov. 14.
- Bearing lubricator. R. I. Frost. No. 1,425,000; Aug. 8.
- Bearing lubricator, Main-. V. W. Page. No. 1,440,314; Dec. 26.
- Bearing mounting, Antifriction-. W. L. Hutchinson. No. 1,427,818; Sept. 5.
- Bearing mounting clutch-throw-out. W. H. Strom. No. 1,402,458; Jan. 3.
- Bearing nut, Self-adjusting. L. C. Vanderlip. No. 1,438,971; Dec. 19.
- Bearing or axle, Self-lubricating. C. M. Feist. No. 1,428,425; Sept. 5.
- Bearing or the cage thereof, Roller. K. O. Leon. No. 1,438,654; Dec. 12.
- Bearing pin, Self-oiling. J. D. Jones. No. 1,413,029; Apr. 18.
- Bearing puller. E. P. Campbell. No. 1,435,278; Nov. 14.
- Bearing puller, Annular. E. P. Campbell. No. 1,425,836; Aug. 15.
- Bearing puller, Generator and magneto. H. N. Tuggle. No. 1,426,126; Aug. 15.
- Bearing, Pull-rod. F. B. Dunlap. No. 1,420,025; June 20.
- Bearing reamer and babbitting bar, Universal alignment. K. R. Peters. No. 1,417,278; May 23.
- Bearing, Roller. L. S. Aldridge. No. 1,438,472; Dec. 12.
- Bearing, Roller. J. Bingham. No. 1,416,680; May 23.
- Bearing, Roller. J. B. Birgh. No. 1,410,988; Mar. 28.
- Bearing, Roller. J. B. Birgh. No. 1,418,277; June 6.
- Bearing, Roller. R. G. Bodlund. No. 1,416,164; May 16.
- Bearing, Roller. T. W. Bryant. No. 1,429,224; Sept. 19.
- Bearing, Roller. A. B. Burkholder. No. 1,426,038; Aug. 15.
- Bearing, Roller. W. D. Burns. No. 1,423,304; July 18.
- Bearing, Roller. L. W. Close. No. 1,427,520; Aug. 29.
- Bearing, Roller. G. A. Darby. No. 1,438,749; Dec. 12.
- Bearing, Roller. B. E. Dohner and A. J. Huff. Nos. 1,404,939-40; Jan. 31.
- Bearing, Roller. J. F. Flaherty. No. 1,404,383; Jan. 24.
- Bearing, Roller. W. S. Halsey. No. 1,418,304; June 6.
- Bearing, Roller. W. F. Huther. No. 1,402,071; Jan. 3.
- Bearing, Roller. A. H. Jones and M. G. Anton. No. 1,414,473; May 2.
- Bearing, Roller. C. I. Lott. No. 1,426,578; Aug. 22.
- Bearing, Roller. F. B. Lovejoy and L. C. Rittmeyer. No. 1,413,173; Apr. 18.
- Bearing, Roller. E. A. Perkins. No. 1,415,694; May 9.
- Bearing, Roller. C. E. Robson. No. 15,345; Apr. 25. (Reissue.)
- Bearing, Roller. M. Stamm and H. Tucker. No. 1,434,855; Nov. 7.
- Bearing, Roller. O. F. Zahn. No. 1,422,162; July 11.
- Bearing, Roller side. F. L. Barber. No. 1,425,741; Aug. 15.

- Bearing, Roller side. A Stucki. No. 1,427,174; Aug. 29.
 Bearing, Rolling-mill. J. N. Quinn. No. 1,405,438; Feb. 7.
 Bearing rolls, Process and apparatus for making. T. V. Buckwalter. No. 1,419,611; June 13.
 Bearings, Self-adjusting. H. Glass. No. 1,422,961; July 18.
 Bearings, Self-aligning ball. P. C. Schmidt. No. 1,439,486; Dec. 19.
 Bearing, Self-aligning high-speed ball-race. J. W. Parker. No. 1,430,319; Sept. 26.
 Bearing, Self-oiling rocker. C. E. Thompson. No. 1,406,780; Feb. 14.
 Bearing, Sensitive spindle. N. H. Anderson. No. 1,429,393; Sept. 19.
 Bearing, Shaft. C. W. Dake. No. 1,418,366; June 6.
 Bearing, Shaft. R. H. Rice. No. 1,413,425; Apr. 18.
 Bearing, Shaft. E. Sobolewski. No. 1,408,837; Mar. 7.
 Bearing, Shaft. J. Wilkinson. No. 1,426,936; Aug. 22.
 Bearing, shim and wear-compensating washer, Combined. J. G. Hamlin. No. 1,418,920; June 6.
 Bearing, Side-frame and bolster spring. E. C. Washburn. No. 1,411,763; Apr. 4.
 Bearings-sleeve extractor. F. C. Hancy. No. 1,430,164; Sept. 26.
 Bearings-sleeve puller. A. P. Linn. No. 1,408,614; Mar. 7.
 Bearing, Supporting. R. Marsland. No. 1,429,606; Sept. 19.
 Bearing swivel wrench plate, Roller-. C. L. Harralson. No. 1,403,161; Jan. 10.
 Bearing, Synthetic jewel. T. G. McDougal and S. J. McDowell. No. 1,422,216; July 11.
 Bearing, Taper roller. E. E. Neal. No. 1,440,312; Dec. 26.
 Bearing, Thrust. S. N. Hall. No. 1,421,082; June 27.
 Bearing, Thrust. S. N. Hall. No. 1,424,640; Aug. 1.
 Bearing, Thrust. J. C. Kane. No. 1,418,804; June 6.
 Bearing, Thrust. W. C. Loedler. No. 1,435,167; Nov. 14.
 Bearing, Thrust. C. A. Parsons, S. S. Cook, and L. M. Douglas. No. 1,403,914; Jan. 17.
 Bearing, Thrust. H. F. Schmidt. No. 1,414,711; May 2.
 Bearing, Thrust and radial ball. H. J. Bower. No. 1,440,131; Dec. 26.
 Bearing transmission, Combined resilient. B. F. Seymour. No. 1,437,452; Dec. 5.
 Bearing, Washing-machine. W. Erni. No. 1,403,306; Jan. 10.
 Bearing, Water-cooled. J. Herman. No. 1,424,097; July 25.
 Bearing wheel, String-proof roller-. J. L. Chesnutt. No. 1,432,966; Oct. 24.
 Bearings, Adjustable device for dressing down. W. A. Mitchell. No. 1,438,389; Dec. 12.
 Bearings, Attachment for. J. A. Anderson. No. 1,428,513; Sept. 12.
 Bearings, Attachment for spindle. R. H. Hughey. No. 1,424,646; Aug. 1.
 Bearings, Ball and roller. F. E. Lofstrom. No. 1,420,852; June 27.
 Bearings, Ball or roller cage for antifriction ball or roller thrust. E. H. W. Weibull. No. 1,415,420; May 9.
 Bearings, Cage for roller. F. Stinson. No. 1,410,040; Mar. 21.
 Bearings, Closing in roller. R. S. Stoffer. No. 1,436,734; Nov. 28.
 Bearings external of a hollow member, Lubricating means for. C. G. Pullin. No. 1,415,115; May 9.
 Bearings for extractors, Lubricator for step. W. Bartholomew. No. 1,437,486; Dec. 5.
 Bearings, Forming ball. R. W. Sellow. No. 1,435,507; Nov. 14.
 Bearings, Making. C. W. Eggenweiler. No. 1,402,849; Jan. 10.
 Bearings, Making self-lubricating. V. G. Apple. No. 1,409,148; Mar. 14.
 Bearings, Means for truing aligned. J. Greven. No. 1,434,004; Oct. 31.
 Bearings, Oiling ring for shaft. W. H. Foot. No. 1,409,693; Mar. 14.
 Bearings or other purposes, Manufacturing composite articles for. E. G. Dann. No. 1,422,677; July 11.
 Bearings, Retaining cage for multiple-row ball. F. E. Mueller. No. 1,427,225; Aug. 29.
 Bearings, Setting for drilled jewel. H. Colomb. No. 1,440,059; Dec. 26.
 Bearings, Supporting means for shafts. W. J. Bayrer. No. 1,416,776; May 23.
 Bearings, Tool for turning shaft. W. Moxham. No. 1,430,831; Oct. 3.
 Beater. L. Bordwell. No. 1,437,957; Dec. 5.
 Beater. G. J. Fitzpatrick. No. 1,417,982; May 30.
 Beater. F. Westerman. No. 1,438,281; Dec. 12.
 Beater attachment. P. D. Forshey and W. J. Fish. No. 1,434,536; Nov. 7.
 Beater engine. C. E. Greene. No. 1,424,399; Aug. 1.
 Beater for rugs, etc. J. C. McIntyre. No. 1,414,294; Apr. 25.
 Beaters, Motor for. E. Kelley. No. 1,413,662; Apr. 25.
 Beating apparatus. F. P. Baumann. No. 1,433,113; Oct. 24.
 Beating device. J. M. Schaedler. No. 1,402,380; Jan. 3.
 Bed. W. B. Anderson. No. 1,437,213; Nov. 28.
 Bed. C. L. Batchelor. No. 1,415,978; May 16.
 Bed. A. Buda. No. 1,411,986; Apr. 4.
 Bed. E. Calusinski. No. 1,413,455; Apr. 18.
 Bed. B. W. Goehel. No. 1,419,624; June 13.
 Bed. A. Izen. No. 1,440,152; Dec. 26.
 Bed. A. J. Kreuzkamp. No. 1,413,594; Apr. 25.
 Bed. A. J. Kreuzkamp. No. 1,418,382; June 6.
 Bed. G. R. McAllaster. No. 1,418,589; June 6.
 Bed. G. R. McAllaster. No. 1,429,150; Sept. 12.
 Bed. R. Morris. No. 1,427,618; Aug. 29.
 Bed. O. G. Parker. No. 1,433,741; Oct. 31.
 Bed. J. Roever. No. 1,424,853; Aug. 8.
 Bed. L. W. Ward. No. 1,428,462; Sept. 5.
 Bed. J. H. Wittmann. No. 1,415,135; May 9.
 Bed and crib, Baby. S. J. Lannigan. No. 1,414,027; Apr. 25.
 Bed and tent, Combination auto. S. A. Miller. No. 1,428,897; Sept. 12.
 Bed and wardrobe, Combination. J. Piatkowski. No. 1,409,770; Mar. 14.
 Bed attachment. F. Cortese. No. 1,422,744; July 11.
 Bed, Automobile. R. J. Benford. No. 1,410,731; Mar. 28.
 Bed, Automobile. L. J. Clergy. No. 1,419,320; June 13.
 Bed, Automobile. F. B. Cosper. No. 1,417,802; May 30.
 Bed, Automobile. C. G. Eaton. No. 1,409,687; Mar. 14.
 Bed, Automobile tourist. M. A. Fuller. No. 1,433,610; Oct. 31.
 Bed bottom. S. L. Arnold. No. 1,423,065; July 18.
 Bed bottom. C. D. Brouette. No. 1,431,149; Oct. 10.
 Bed bottom. F. G. Gale. No. 1,433,268; Oct. 24.
 Bed bottom. J. Rooks. No. 1,427,020; Aug. 22.
 Bed bottom, Adjustable. J. R. Stark. No. 1,402,106; Jan. 3.
 Bed-bottom fabric. E. Drefs. No. 1,423,918; July 25.
 Bed-bottom fabric, Spring-. K. Dolgin and F. Kopcienski. No. 1,409,683; Mar. 14.
 Bed bottoms, Side thrust support for spring-. S. Weissman and R. Weisman. No. 1,415,068; May 9.
 Bed, Camp. H. Sanford. No. 1,412,064; Apr. 11.
 Bed, Camping. L. A. Spengler. No. 1,409,421; Mar. 14.
 Bed carriage. S. G. H. Orrell. No. 1,430,675; Oct. 3.
 Bedclothes clamp. J. Lundeen. No. 1,416,655; May 16.
 Bedclothes hanger, Folding. J. D. Hoyt. No. 1,402,861; Jan. 10.
 Bedclothes shield. E. J. McKinney. No. 1,409,961; Mar. 21.
 Bed clothing, Infant's. H. Fidler. No. 1,425,952; Aug. 15.
 Bed, Collapsible. J. H. Johnson. No. 1,435,398; Nov. 14.
 Bed, Collapsible. L. F. Sehillng. No. 1,419,765; June 13.
 Bed, Collapsible automobile. J. F. Cooper. No. 1,418,287; June 6.
 Bed combination. C. F. Glocker. No. 1,435,960; Nov. 21.
 Bed, Concealable. F. S. Inco. No. 1,408,510; Mar. 7.
 Bed construction. C. F. Plackard. No. 1,419,586; June 13.
 Bed, Convertible. E. B. Handel. No. 1,429,239; Sept. 19.
 Bed, Convertible. G. F. Sisbower and L. E. Pittoni. No. 1,419,319; June 13.
 Bed, Convertible davenport. J. Luppino. No. 1,408,013; Feb. 28.
 Bed corner. A. Izen. Nos. 1,423,664-5; July 25.
 Bedcover-holding device. I. W. Bisbing. No. 1,438,475; Dec. 12.
 Bed covering. W. Scott. No. 1,403,873; Jan. 17.
 Bed-cover-retaining device, Flexible. S. H. Buttrick. No. 1,419,015; June 6.
 Bed, Davenport. M. L. Brilliant. No. 1,404,508; Jan. 24.
 Bed, Davenport. H. Mintz. No. 1,437,771; Dec. 5.
 Bed, Day. W. E. Frank. No. 1,433,588; Oct. 31.
 Bed, Device for preventing the coverlet from dropping off the. E. Ziesenis. No. 1,412,796; Apr. 11.
 Bed, Extensible. W. E. Lawson. No. 1,419,574; June 13.
 Bed, Folding. L. A. Brown. No. 1,403,465; Jan. 10.
 Bed, Folding. R. Coopersmith. No. 1,432,053; Oct. 17.
 Bed, Folding. J. V. Hickman. No. 1,402,607; Jan. 3.
 Bed, Folding. T. A. Logan, J. F. Brown, and C. E. Davis. No. 1,424,926; Aug. 8.
 Bed, Folding. L. Rothfeld. No. 1,414,833; May 2.
 Bed, Folding. A. J. Schubert and J. L. Berry. No. 1,432,793; Oct. 24.
 Bed, Folding. A. G. Smith. No. 1,439,272; Dec. 19.
 Bed, Folding. G. Stackhouse. No. 1,409,423; Mar. 14.
 Bed, Folding. N. I. Usievich. No. 1,420,894; June 27.
 Bed, Folding. H. J. Yager. No. 1,436,558; Nov. 21.
 Bed, Folding camp. J. Kibler, Jr. No. 1,417,253; May 23.
 Bed, Folding chair. J. Luppino. No. 1,408,014; Feb. 28.
 Bed, Folding child's. G. R. Haynes. No. 1,402,767; Jan. 10.
 Bed, Folding crib. O. P. and J. F. Welker. No. 1,402,328; Jan. 3.
 Bed for automobiles, Folding tent. E. Tuttle. No. 1,424,222; Aug. 1.
 Bed for use on automobiles. E. V. Loustalot. No. 1,421,268; June 27.
 Bed frame, Sectional. A. H. Shearer. No. 1,405,721; Feb. 7.
 Bed, Hospital. E. H. Davisworth. No. 1,411,236; Mar. 28.
 Bed, Hospital. A. M. Kirby. No. 1,429,080; Sept. 12.
 Bed, Hospital. A. R. Leuz. No. 1,404,207; Jan. 24.
 Bed, Hospital. P. Soltys. No. 1,408,651; Mar. 7.
 Bed, Infant's collapsible. E. L. Glaum. No. 1,412,177; Apr. 11.

Alphabetical list of inventions—Continued.

- Bed, Invalid. W. R. Brown. No. 1,407,631; Feb. 21.
 Bed, Invalid. W. H. Sawyer. No. 1,404,482; Jan. 24.
 Bed, Invalid's. J. Mortimore. No. 1,432,777; Oct. 24.
 Bed-laster and clasp. C. F. Adams. No. 1,422,806; July 11.
 Bed lock. P. Cobb. No. 1,419,957; June 20.
 Bed or the like. E. Nielsen. No. 1,429,759; Sept. 19.
 Bedpan. F. A. Wood. No. 1,436,133; Nov. 21.
 Bed, Portable folding. C. D. McDonald. No. 1,405,141; Jan. 31.
 Bed, Portable folding. F. M. Stoll. No. 1,422,320; July 11.
 Bedrail connection. H. D. Walker. No. 1,439,930; Dec. 26.
 Bed-rail fastener. A. S. Putnam. No. 1,423,623; July 25.
 Bed-rail fastening. D. F. Dyke. No. 1,424,284; Aug. 1.
 Bed, Sheet-metal. F. P. Williams. No. 1,414,765; May 2.
 Bed, Sliding convertible. A. J. Kreuzkamp. No. 1,413,595; Apr. 25.
 Bed, Sofa. D. F. Dyke. No. 1,424,285; Aug. 1.
 Bed, Spring. O. N. Farnham. No. 1,426,972; Aug. 22.
 Bedspring. C. H. Gail. No. 1,437,235; Nov. 28.
 Bedspring. C. R. Harvey. No. 1,414,277; Apr. 25.
 Bedspring. H. W. Huntress. No. 1,414,471; May 2.
 Bedspring apparatus. J. B. Swan, J. A. Rogers, and G. W. Jackson. No. 1,425,719; Aug. 15.
 Bedspring attachment. R. B. Gallagher and R. C. Young. No. 1,423,100; July 18.
 Bedspring-border brace. D. C. Travis. No. 1,432,499; Oct. 17.
 Bedspring fabric. J. L. McKellar. No. 1,405,143; Jan. 31.
 Bedspring fabric. A. Rhenstrom. No. 1,405,868; Feb. 7.
 Bedspring reinforcement. A. M. Lundstrom. No. 1,438,249; Dec. 12.
 Bedsprings, Attachment for. II. Mintz. No. 1,431,976; Oct. 17.
 Bedsprings, Attachment for. B. C. Rodkey. No. 1,402,796; Jan. 10.
 Bedsprings, Lock block for steel. A. J. Metz. No. 1,412,482; Apr. 11.
 Bedstead. A. Barashick. No. 1,408,245; Feb. 28.
 Bedstead. F. G. Gale. No. 1,429,422; Sept. 19.
 Bedstead. L. Howe. No. 1,416,297; May 16.
 Bedstead. C. Hultgren. No. 1,405,219; Jan. 31.
 Bedstead and bedspring. H. Litvak. No. 1,411,636; Apr. 4.
 Bedstead and like joints. E. V. Loukes. No. 1,410,046; Mar. 28.
 Bedstead, cots, and mattresses, Corner fitting for. C. H. Price. No. 1,433,097; Oct. 24.
 Bedstead, etc. S. B. Gamble. No. 1,405,373; Jan. 31.
 Bedstead for invalids, Adjustable. C. S. Woods. No. 1,417,654; May 30.
 Bedstead, Metal. F. Kusterle. No. 1,411,362; Apr. 4.
 Bedsteads, Corner fastening for. W. A. Koch. No. 1,434,441; Nov. 7.
 Bedsteads, Corner fastening for. M. Lowy. No. 1,433,214; Oct. 24.
 Bedsteads, Corner fastening for. M. Lowy. No. 1,438,187; Dec. 12.
 Bedsteads, Corner fastening for. R. R. Smith. No. 1,430,126; Sept. 26.
 Bed support. G. Runnebaum. No. 1,420,755; June 27.
 Bed table, Folding. M. Koltunski. No. 1,430,016; Sept. 26.
 Bed, Trunk. F. Moore. No. 1,429,523; Sept. 19.
 Bed, Wall. M. F. Bayer. No. 1,418,054; May 30.
 Beds, Attachment for. E. B. Down. No. 1,422,939; July 18.
 Beds, Attachment for. L. Kroupa. No. 1,404,448; Jan. 24.
 Beds, Box spring for. S. J. Lavezzl. No. 1,412,879; Apr. 18.
 Beds, Chair attachment for. J. A. Freeze. No. 1,419,245; June 13.
 Beds, Drawer attachments for. C. Christensen. No. 1,408,269; Feb. 28.
 Beds, Drawer attachment for. C. Kontorowitz. No. 1,423,804; July 25.
 Beds, Elevating rack for. C. G. Alguire. No. 1,422,405; July 11.
 Beds, Frame for automobile. G. H. Stultz. No. 1,420,889; June 27.
 Beds, Hinge for folding. H. U. Crain. No. 1,428,759; Sept. 12.
 Beds, Invisible lock for metal. L. Spiro. No. 1,403,206; Jan. 10.
 Beds, Irrigating device for flower. A. Olson. No. 1,439,973; Dec. 26.
 Beds or other articles, Frame fastener for. E. Novitzky. No. 1,419,297; June 13.
 Beds, Rail-fastening device for. J. Findura. No. 1,424,089; July 25.
 Beds, Table attachment for. S. Kuczynski. No. 1,416,562; May 16.
 Beds, Table attachment for. S. Kuczynski. No. 1,435,166; Nov. 14.
 Bee combs, Reinforcement for. H. C. Dadant. No. 1,412,457; Apr. 11.
 Bee escape. H. D. Rogers. No. 1,423,883; July 25.
 Bee escape and feeder cap. G. S. Jones. No. 1,414,284; Apr. 25.
 Bee escape, 4-way. K. Hawkins. No. 1,414,696; May 2.
 Beehive. L. Bamberger. No. 1,414,393; May 2.
 Beehive. T. K. Massie. No. 1,417,623; May 30.
 Beehive. W. F. McCready. No. 1,402,169; Jan. 3.
 Beehive comb frame. D. S. Hall. No. 1,423,212; July 18.
 Beehive frame. F. W. Summerfield. No. 1,425,295; Aug. 8.
 Beehive frames, Spacer device for. R. Littlefield. No. 1,440,090; Dec. 26.
 Beehive, Nonswarming. L. A. Aspinwall. No. 1,410,444; Mar. 21.
 Beehives, Division board for. F. D. Bowers. No. 1,420,960; June 27.
 Beekeeper's appliance. C. F. Baile. No. 1,429,827; Sept. 19.
 Beef tree or butcher's gambrel. P. Rauch. No. 1,413,780; Apr. 25.
 Beer, Producing low-alcoholic. M. Stahl. No. 1,432,422; Oct. 17.
 Beet and potato digger and elevator. S. J. Wilson. No. 1,414,538; May 2.
 Beet blocking and thinning machine. S. R. Yozits and W. G. Zabel. No. 1,440,120; Dec. 26.
 Beet-cleaning screen, Sugar. A. G. J. Rapp. No. 1,431,684; Oct. 10.
 Beet digger. P. J. Boyle. No. 1,421,123; June 27.
 Beet dump. J. A. Lynch. No. 1,432,195; Oct. 17.
 Beet elevator. O. Hansen. No. 1,416,196; May 16.
 Beet toppler. S. A. Goodson. No. 1,420,482; June 20.
 Beet toppler. E. B. McCain. No. 1,412,696; Apr. 11.
 Beet toppler. F. Pocock. No. 1,439,187; Dec. 19.
 Beet toppler. J. Scholl and R. Parlow. No. 1,432,913; Oct. 24.
 Beet toppler. S. C. Warner. No. 1,423,374; July 18.
 Beet-topping device. M. A. Smith. No. 1,439,026; Dec. 19.
 Beet-topping machine. J. Scholl and R. Parlow. No. 1,432,912; Oct. 24.
 Beet-topping machine. C. H. and W. F. Weyh. No. 1,429,988; Sept. 26.
 Beet washer and rock catcher, Jigging. E. A. Franklin and G. J. Daley. No. 1,430,896; Oct. 3.
 Bell and burglar alarm, Door. G. Latchem. No. 1,421,091; June 27.
 Bell-controlling device. A. Lymburner. No. 1,435,168; Nov. 14.
 Bell, Electric. E. Raboni. No. 1,427,548; Aug. 29.
 Bell, Mine and like electric. J. B. Eder. No. 1,405,819; Feb. 7.
 Bell or signaling device, Call. S. Katz. No. 1,428,237; Sept. 5.
 Bell ringer and line lock. C. Spiro. No. 1,410,773; Mar. 28.
 Bell-ringing device, Automatic. A. I. Woodring. No. 1,429,666; Sept. 19.
 Bell trap. H. M. O'Brien. No. 1,411,125; Mar. 28.
 Bellies of bulls, sheep, etc., Process and apparatus for the mechanical cleaning and smoothing of the. E. F. Dautuill. No. 1,403,015; Jan. 10.
 Belt. A. F. Garberding. No. 1,421,451; July 4.
 Belt. W. F. Grupe. No. 1,403,859; Jan. 17.
 Belt. M. J. Maakestad. No. 1,424,110; July 25.
 Belt. A. Raffel. No. 1,410,273; Mar. 21.
 Belt. A. O. Rutz. No. 1,429,638; Sept. 19.
 Belt. C. Slavens. No. 1,431,846; Oct. 10.
 Belt. T. H. Sullivan. No. 1,438,793; Dec. 12.
 Belt. N. I. Yerkes. No. 1,437,350; Nov. 28.
 Belt adapter. C. B. Reddig. No. 1,412,371; Apr. 11.
 Belt, Adjustable link. F. W. Elsingner. No. 1,404,842; Jan. 31.
 Belt adjuster, Heavy-duty. N. J. McCay. No. 1,414,428; May 2.
 Belt and making same, Machine. G. R. Fisher. No. 1,438,370; Dec. 12.
 Belt and supporter, Money. C. Foster. No. 1,418,371; June 6.
 Belt and the like. K. Matheus. No. 1,422,999; July 18.
 Belt attachment. C. H. Printz. No. 1,438,330; Dec. 12.
 Belt buckle. G. E. Prentice and R. C. Legat. No. 1,430,255; Sept. 26.
 Belt buffing or scouring machine. L. G. Freeman. No. 1,434,334; Oct. 31.
 Belt calculator. G. R. Fickert. No. 1,437,298; Nov. 28.
 Belt, Chain. C. G. Dean. No. 1,414,591; May 2.
 Belt clasp. J. F. Killion. No. 1,414,816; May 2.
 Belt connection. G. E. Hulse. No. 1,430,553; Oct. 3.
 Belt construction, Pan-conveyer link. R. W. Dull. No. 1,411,993; Apr. 4.
 Belt, Conveyer. E. J. Brennan. No. 1,428,878; Sept. 12.
 Belt, Conveyer. J. N. Kenny. No. 1,422,208; July 11.
 Belt, Conveyer. L. T. Petersen. No. 1,405,158; Jan. 31.
 Belt, Conveyer. C. W. Wiggins. No. 1,438,566; Dec. 12.
 Belt conveyer, Self-training. M. A. Kendall. No. 1,423,528; July 25.
 Belt-conveyer tripper. O. B. Hanson. No. 1,429,732; Sept. 19.
 Belt conveyers, Troughing pulley for. F. I. L. Bylger. No. 1,422,662; July 11.
 Belt, Conveying. J. L. Wentz. No. 1,422,399; July 11.
 Belt, Conveying. J. L. Wentz. No. 1,432,002; Oct. 17.
 Belt, Corset. J. Lindauer. No. 1,432,765; Oct. 24.
 Belt coupling. R. Luck. No. 1,409,873; Mar. 14.
 Belt cutter. I. M. Jacobs and W. Cramer. No. 1,415,355; May 9.
 Belt-cutting machine. G. La Vigne. No. 1,435,315; Nov. 14.
 Belt dressing. E. B. Folsom. No. 1,429,498; Sept. 19.

- Belt dressing. P. E. Ullrich. No. 1,429,467; Sept. 19.
 Belt-dressing composition and making the same. L. M. Fisher. No. 1,411,912; Apr. 4.
 Belt, Drive. F. Mesinger. No. 1,424,767; Aug. 8.
 Belt, Driving. L. A. Walker. No. 1,426,796; Aug. 22.
 Belt elevator, Smooth-. J. L. Lemoine. No. 1,405,233; Jan. 31.
 Belt, Endless. W. G. Barnard. No. 1,411,602; Apr. 4.
 Belt, Fan. A. Hennigan. No. 1,414,278; Apr. 25.
 Belt, Fan. J. G. Johnson. No. 1,438,600; Dec. 12.
 Belt fastener. J. J. B. J. Boövy (Nicolaaszoon). No. 1,430,211; Sept. 26.
 Belt fastener. H. Schlutz. No. 1,414,048; Apr. 25.
 Belt fastener. J. H. Tabler. No. 1,420,588; June 20.
 Belt fastener. W. Taylor. No. 1,435,347; Nov. 14.
 Belt fastener, Transmission. F. G. Senter. No. 1,439,265; Dec. 19.
 Belt guard. O. R. Gustafson. No. 1,433,815; Oct. 31.
 Belt guide and stay. D. F. Busskohl. No. 1,410,549; Mar. 28.
 Belt hanger. A. F. Kempton. No. 1,410,925; Mar. 28.
 Belt joiner. L. Weglein, jr. No. 1,437,031; Nov. 28.
 Belt-lacing device. W. A. Ling. No. 1,409,742; Mar. 14.
 Belt, Life. M. Heath. No. 1,425,475; Aug. 8.
 Belt, Link. R. W. Dull. Nos. 1,411,994-5; Apr. 4.
 Belt, Link. F. Mesinger. No. 1,424,768; Aug. 8.
 Belt link and key-ring holder, Combined. J. Jackson. No. 1,417,996; May 30.
 Belt, Metallic link. S. Matsumoto. No. 1,427,008; Aug. 22.
 Belt, Nonspil. B. Allen, Jr. No. 1,420,604; June 20.
 Belt or chain, Driving. J. H. Smith. R. H. Brand, and T. G. Leith. No. 1,407,598; Feb. 21.
 Belt or chain tightener. I. F. Nelson. No. 1,425,604; Aug. 15.
 Belt, Power. J. Breuer. No. 1,420,962; June 27.
 Belt, Power-transmission. A. O. Rutz. No. 1,427,856; Sept. 5.
 Belt, Power-transmitting. J. A. Hawkesworth. No. 1,427,460; Aug. 29.
 Belt, Proofer. F. H. Van Houten. No. 1,427,869; Sept. 5.
 Belt replacer. M. Friedman. No. 1,438,992; Dec. 19.
 Belt, Sanitary. D. Morner. No. 1,423,353; July 18.
 Belt, Shell. E. Flurie. No. 1,416,184; May 16.
 Belt shifter. J. Rushworth. No. 1,404,897; Jan. 31.
 Belt shifter. C. E. Shryver. No. 1,427,702; Aug. 29.
 Belt shifter. R. Spurgin, Jr. No. 1,415,271; May 9.
 Belt shifters, Cone. E. E. Jones. No. 1,421,485; July 4.
 Belt-shifting device. R. Spurgin, Jr. No. 1,402,022; Jan. 8.
 Belt-shifting mechanism. W. J. Bayrer. No. 1,416,778; May 23.
 Belt-shifting mechanism. J. E. Larsh. No. 1,414,290; Apr. 25.
 Belt splice. F. F. Snyder. No. 1,421,036; June 27.
 Belt splice. F. F. Snyder. No. 1,428,917; Sept. 12.
 Belt splicer. T. M. Prudden. No. 1,436,724; Nov. 28.
 Belt tightener. E. S. and P. M. Reiland. No. 1,402,891; Jan. 10.
 Belt tightener, Automatic. A. C. Stringer. No. 1,432,129; Oct. 17.
 Belt, Tractor. C. T. Torresen and C. G. Roth. No. 1,437,693; Dec. 5.
 Belt, Transmission. I. F. Kepler. No. 1,425,021; Aug. 8.
 Belt, Transmission. M. O. Reeves. No. 1,435,737; Nov. 14.
 Belt, Two-ply pigskin. H. M. Gusdorf. No. 1,404,848; Jan. 31.
 Belt unit, Track-. E. H. Savage. No. 1,403,643; Jan. 17.
 Belts and straps, Tip for. C. A. Humphreys. No. 1,405,516; Feb. 7.
 Belts and the like, Apparatus for attaching belt hooks to. J. C. Conn. No. 1,436,306; Nov. 21.
 Belts, Fastening for driving. A. J. Forbes. No. 1,422,430; July 11.
 Belts, Making. H. W. Delzell. No. 1,432,973; Oct. 24.
 Belts, Manufacturing. H. M. Lambert. No. 1,412,310; Apr. 11.
 Belts or rings, Method and apparatus for making endless. A. E. Moon. No. 1,420,727; June 27.
 Belts, Tightener for motor-driven. W. S. Ireland and W. H. Meyer. No. 1,413,028; Apr. 18.
 Belting. R. J. Vedovell. No. 1,406,306; Feb. 14.
 Belting, Making. E. F. Gingras. No. 1,419,842; June 13.
 Belting, Manufacturing stretchless. H. M. Lambert. No. 1,412,309; Apr. 11.
 Belting, Prepared fabric. E. F. Gingras. No. 1,404,597; Jan. 24.
 Belting tool. A. G. Bava. No. 1,422,332; July 11.
 Bench. *See*—
 Draw bench. Work-clamping bench.
 Workbench.
 Bench and floor clamp. T. Ashworth. No. 1,421,370; July 4.
 Bench block. J. J. McGuckin. No. 1,426,658; Aug. 22.
 Bench dog. L. A. Matthews. No. 1,424,842; Aug. 8.
 Bench or floor dog. F. Jaskowiak. No. 1,422,272; July 11.
 Bench stop. I. J. Watts. No. 1,421,328; June 27.
 Bend and method and apparatus for making same, Return. C. K. Lassiter and J. Kindervater. No. 1,417,396; May 23.
 Bending machine. F. C. Crowe. No. 1,414,840; May 2.
 Bending machine. J. B. Meltz. No. 1,438,321; Dec. 12.
 Bending machine. G. H. Zimmer. No. 1,435,041; Nov. 7.
 Bending machine, Mandrel-seating apparatus for tube-. I. Leezenbaum. No. 1,404,397; Jan. 24.
 Bending machine, Metal-. H. Schott. No. 1,402,801; Jan. 10.
 Bending press. F. W. McArdle. No. 1,424,366; Aug. 1.
 Bending press, Plate-. R. W. Bailly. No. 1,437,953; Dec. 5.
 Bends, Dies for making return. C. K. Lassiter and J. Kindervater. No. 1,417,394; May 23.
 Bends, Making return. C. K. Lassiter and J. Kindervater. No. 1,417,393; May 23.
 Benzene, toluene, and other aromatic hydrocarbons, Manufacture of. W. F. Rittman. No. 1,419,123; June 6.
 Bermuda-grass cutter. K. R. Thomas. No. 1,407,962; Feb. 28.
 Berries, Box or container for. J. P. and J. P., jr., Hickman. No. 1,425,256; Aug. 8.
 Berry picker. J. A. Kaye. No. 1,406,874; Feb. 14.
 Berry pickers, Box holder for. P. I. Andrews. No. 1,406,326; Feb. 14.
 Beryllium compounds, Production of. L. Burgess. No. 1,418,527; June 6.
 Beryllium, Electrically manufacturing compact metallic. A. Stock and H. Goldschmidt. No. 1,427,919; Sept. 5.
 Bevel finder and square, Combination. J. A. Lulay. No. 1,433,140; Oct. 24.
 Beverage, Cereal and fruit. C. Ellis. No. 1,414,557; May 2.
 Beverage dispenser. G. M. Bright. No. 1,430,935; Oct. 3.
 Beverage mixer. O. P. Erhardt. No. 1,407,789; Feb. 28.
 Beverage mixer. R. W. Riedel. No. 1,408,033; Feb. 28.
 Beverage mixer. T. A. Wolters. No. 1,431,715; Oct. 10.
 Beverages, Apparatus for dispensing. C. F. Callahan. No. 1,409,827; Mar. 14.
 Beverages, Apparatus for filtering gas containing. E. Zahm. No. 1,439,721; Dec. 26.
 Beverages, Apparatus for the manufacture and display of. J. H. Mallon. No. 1,420,433; June 20.
 Beverages containing chocolate, cocoa, etc., Dispensing means for. H. C. Lyons. No. 1,428,043; Sept. 5.
 Beverages, Dealccoholizing. H. Heuser. No. 1,426,066; Aug. 15.
 Beverages, Dispensing carbonator for. J. E. Hires. No. 1,437,306; Nov. 28.
 Beverages, Making. J. Takamine, Jr. No. 1,412,378; Apr. 11.
 Beverages, Method and means for dispensing carbonated. F. J. Maguire. No. 1,415,185; May 9.
 Beverages, Producing cereal. M. Stahl. No. 1,421,737; July 4.
 Bib, Creeper. M. F. Hale. No. 1,424,013; July 25.
 Bicycle. J. B. Drum and F. J. Everett. No. 1,405,982; Feb. 7.
 Bicycle. F. A. Malec. No. 1,427,402; Aug. 29.
 Bicycle. V. Rullo. No. 1,439,263; Dec. 19.
 Bicycle. G. W. Sage, jr. No. 1,429,107; Sept. 12.
 Bicycle and motor drive therefor. E. K. Baker. No. 1,436,788; Nov. 28.
 Bicycle crank-hanger construction. J. W. Kelley. No. 1,430,235; Sept. 26.
 Bicycle frames, Manufacturing. E. M. Lewis. No. 1,403,611; Jan. 17.
 Bicycle gearing. T. Yamamoto. No. 1,411,548; Apr. 4.
 Bicycle pedal. C. A. Persons. No. 1,425,215; Aug. 8.
 Bicycle propelling means. N. J. Greenison. No. 1,427,589; Aug. 29.
 Bicycle saddle truss and seat-post clamp. R. G. Bailey. No. 1,431,356; Oct. 10.
 Bicycle, Spring-power. L. Kolaczowski. No. 1,409,454; Mar. 14.
 Bicycle steering head. J. J. McGuckin. No. 1,428,601; Sept. 12.
 Bicycle transmission. J. S. Moorehead. No. 1,431,977; Oct. 17.
 Bicycle, Water. K. Owsianiecki. No. 1,409,965; Mar. 21.
 Bicycles, Adjustable handle bar for. C. F. Filor. No. 1,413,463; Apr. 18.
 Bicycles, Air-motor device for. J. Labak. No. 1,410,326; Mar. 21.
 Bicycles and the like, Rear package carrier for. C. A. Anderson. No. 1,417,223; May 23.
 Bicycles, Frame and locking means for. I. Steinberg. No. 1,408,652; Mar. 7.
 Bicycles, Resilient attachment for. L. Wolff. No. 1,432,376; Oct. 17.
 Billboard. F. S. Jerrell. No. 1,433,207; Oct. 24.
 Billboard. W. Kelly. No. 1,437,315; Nov. 28.
 Billet or bar, Metallic. H. S. Albrecht. No. 1,436,931; Nov. 28.
 Billets and the like, Turning mechanism for. D. S. Davis. No. 1,410,382; Mar. 21.
 Billets, Method of and apparatus for straightening rolled endless. C. L. Taylor. No. 1,420,785; June 27.
 Bill fold. C. L'Enfant. No. 1,423,669; July 25.
 Billiard counter. A. H. Griswold. No. 1,416,015; May 16.
 Billiard-cue-butts, Noise subducer and protector for. W. Wuerthele. No. 1,433,588; Oct. 31.
 Billiard cue, ferrule, and tip. J. J. Medvec. No. 1,429,752; Sept. 19.
 Billiard-cue tip. W. C. Pappas. No. 1,405,864; Feb. 7.

Alphabetical list of inventions—Continued.

- Billiard cues, Tip-securing means for. J. Vetter. No. 1,427,873; Sept. 5.
 Billiard table. A. Pedersen. No. 1,439,837; Dec. 26.
 Billiard-table cushion. W. L. Harris. No. 1,404,119; Jan. 17.
 Billiard-table pockets, Guard for. E. H. Acland. No. 1,421,361; July 4.
 Billiard tables, Game attachment for pocket-. G. and A. Debelack. No. 1,409,527; Mar. 14.
 Bin. *See*—
 Display bin. Sanitary vegetable bin.
 Grain bin. Stock-feeding bin.
 Measuring grocery bin.
 Bin. C. M. Williams. No. 1,408,054; Feb. 28.
 Bin discharges and conveyers, Chain for. A. Redler. No. 1,433,567; Oct. 31.
 Bin-filling shut-off. M. L. and A. L. Bremer. No. 1,423,990; July 25.
 Bin front. W. N. Vance. No. 1,406,304; Feb. 14.
 Bin gate. J. W. Forsythe and F. N. Hays. No. 1,434,488; Nov. 7.
 Binder. E. M. Anderson. No. 1,436,073; Nov. 21.
 Binder. C. J. Dunbar. No. 1,405,903; Jan. 31.
 Binder. L. Elkin. No. 1,406,450; Feb. 14.
 Binder. W. M. A. Gale. No. 1,412,857; Apr. 18.
 Binder. E. L. Krag. No. 1,439,867; Dec. 19.
 Binder. W. P. Pitt. No. 1,423,016; July 18.
 Binder. G. P. Wigginton. No. 1,410,788; Mar. 28.
 Binder and covering member therefor, Expandable and contractible leaf. W. H. Edwards. No. 1,406,829; Feb. 14.
 Binder and stand therefor, Loose-leaf. C. R. Fargo and P. O. Unger. No. 1,422,950; July 18.
 Binder, Core. G. B. Hill. No. 1,429,879; Sept. 19.
 Binder, Joint. E. C. Glardon. No. 1,425,470; Aug. 8.
 Binder lock. C. F. McBee. No. 1,418,314; June 6.
 Binder, Loose-leaf. C. B. Alexander. No. 1,434,579; Nov. 7.
 Binder, Loose-leaf. L. W. Bergman. No. 1,429,708; Sept. 19.
 Binder, Loose-leaf. J. Bystrom. No. 1,421,126; June 27.
 Binder, Loose-leaf. T. R. Campbell. No. 1,432,382; Oct. 17.
 Binder, Loose-leaf. J. C. Dawson. No. 1,410,001; Mar. 21.
 Binder, Loose-leaf. J. C. Dawson. No. 1,413,904; Apr. 25.
 Binder, Loose-leaf. B. R. Dutcher. No. 1,403,303; Jan. 10.
 Binder, Loose-leaf. A. W. Engel. No. 1,408,870; Mar. 7.
 Binder, Loose-leaf. R. L. Esson. No. 1,426,468; Aug. 22.
 Binder, Loose-leaf. J. A. Finger. No. 1,432,453; Oct. 17.
 Binder, Loose-leaf. L. E. Goodyear. No. 1,415,834; May 9.
 Binder, Loose-leaf. G. Hankel. No. 1,433,949; Oct. 31.
 Binder, Loose-leaf. J. Kahn. No. 1,430,815; Oct. 3.
 Binder, Loose-leaf. C. W. Macdonald. No. 1,408,817; Mar. 7.
 Binder, Loose-leaf. L. W. Marshall. No. 1,436,598; Nov. 21.
 Binder, Loose-leaf. C. F. McBee. No. 1,435,170; Nov. 14.
 Binder, Loose-leaf. E. C. Moore. No. 1,403,616; Jan. 17.
 Binder, Loose-leaf. E. C. Moore. No. 1,410,707; Mar. 28.
 Binder, Loose-leaf. E. C. Moore. No. 1,420,333; June 20.
 Binder, Loose-leaf. J. Schade. No. 1,402,018; Jan. 3.
 Binder, Loose-leaf. F. O. Selianoff. No. 1,438,061; Dec. 5.
 Binder, Loose-leaf. L. E. Shipman. No. 1,439,715; Dec. 26.
 Binder, Loose-leaf. S. K. Smith. No. 1,408,480; Mar. 7.
 Binder, Loose-leaf. S. M. Wagaman and E. H. Byer. No. 1,402,694; Jan. 3.
 Binder, Magazine. W. J. Bruce. No. 1,436,857; Nov. 28.
 Binder, Newspaper. W. A. Grimes. No. 1,412,078; Apr. 11.
 Binder or file, Loose-leaf. W. F. Dunning. No. 1,421,677; July 4.
 Binder platform. G. Davis. No. 1,405,571; Feb. 7.
 Binder, Record. R. H. Fraser. No. 1,429,864; Sept. 19.
 Binder, Shifting-post. A. R. Meyer and E. A. Reed. No. 1,439,479; Dec. 19.
 Binder, Staple. B. Jahn and E. E. Kahl. No. 1,428,694; Sept. 12.
 Binder, Temporary. C. P. Dietz. No. 1,436,795; Nov. 28.
 Binder, Temporary. L. L. Fleck. No. 1,430,366; Sept. 26.
 Binder, Temporary. F. D. Pitt and G. W. Newman. No. 1,423,015; July 18.
 Binder, Temporary. O. Simensen and A. Colban. No. 1,439,716; Dec. 26.
 Binder, Temporary. C. D. Trussell. (Reissue.) No. 1,532; Mar. 28.
 Binder, Temporary. G. P. Wigginton. Nos. 1,439,777-9; Dec. 26.
 Binders, Attachment for. O. E. Callaway. No. 1,425,365; Aug. 8.
 Binders, grain conveyers, and the like, Elevator canvas for. H. M. Graham. No. 1,435,600; Nov. 14.
 Binders, Grain holder for. L. H. Stowell. No. 1,424,122; July 25.
 Binders, Implement for joining package. S. C. Cary. No. 1,411,709; Apr. 4.
 Binders, Labeling device for loose-leaf. J. C. Grant. No. 1,403,076; Jan. 10.
 Binders, mowers, and other vehicles, Coupling for trains of. C. R. Davis. No. 1,422,186; July 11.
 Binders, Posting tray for use with loose-leaf. J. F. Hanly. No. 1,404,388; Jan. 24.
 Binding and filing device. E. A. Bansbach. No. 1,437,955; Dec. 5.
 Binding clip. F. M. Ashley. No. 1,429,182; Sept. 12.
 Binding, Concealed blindstitched. S. G. Tate. No. 1,403,135; Jan. 10.
 Binding machine. G. Ardizzone. No. 1,420,677; June 27.
 Binding machine, Vertical loose-leaf. H. M. Crippen. No. 1,424,753; Aug. 8.
 Binding post. O. A. Smith. Nos. 1,420,770-1; June 27.
 Binding strap. S. Berger. No. 1,411,902; Apr. 4.
 Binding strap. A. Bushnell, Jr. No. 1,421,164; June 27.
 Binding strip. J. Martini. No. 1,439,253; Dec. 19.
 Biotite, Treating. J. Keeth. No. 1,430,085; Sept. 26.
 Biplane, Tractor. J. V. Martin. No. 1,421,803; July 4.
 Birds, Making and mounting artificial. B. G. Ward. No. 1,412,074; Apr. 11.
 Biscuit container. H. H. Predmore. No. 1,437,616; Dec. 5.
 Biscuit cutter. C. E. Dickson. No. 1,436,982; Nov. 28.
 Biscuit cutting and embossing machine. H. W. Hole. No. 1,421,349; June 27.
 Bit. *See*—
 Adjustable well-drilling bit. Oil-well drill bit.
 Auger bit. Rotary bit.
 Collapsible bit. Shot bit.
 Drill bit. Well drill bit.
 Drilling bit. Well-drilling bit.
 Expandable bit. Woodworking bit.
 Fishtail bit.
 Bit braces, etc., and manufacture of same, Chuck sleeve. F. J. Moran. No. 1,413,926; Apr. 25.
 Bit-dressing machine. F. M. Lee. No. 1,407,286; Feb. 21.
 Bit for wood, Expansion counterboring. W. F. Wall. No. 1,415,740; May 9.
 Bit gauge. G. H. Cranmer. No. 1,430,951; Oct. 3.
 Bit-holder extension. J. Perkins, Jr. No. 1,405,625; Feb. 7.
 Bit-holding tool. G. A. Montgomery. No. 1,407,292; Feb. 21.
 Bit, Shot. C. C. Hansen. No. 1,406,185; Feb. 14.
 Bits, Manufacturing. W. C. Brooks. No. 1,410,990; Mar. 28.
 Bituminous composition and making same, Colored. L. Kirschbrann. No. 1,417,838; May 30.
 Bituminous construction material and making same. R. P. Perry. No. 1,409,767; Mar. 14.
 Bituminous distributor. A. Fricker. No. 1,433,713.
 Bituminous material and producing same, Body of. R. P. Perry. No. 1,402,177; Jan. 3.
 Bituminous product and making the same. H. B. Pullar. No. 1,409,237; Mar. 14.
 Blackboard. G. W. Brooks. No. 1,434,989; Nov. 7.
 Blackboard. J. F. Philippi. No. 1,437,193; Nov. 28.
 Blackboard and desk, Combined. C. W. Hall. No. 1,416,555; May 16.
 Blacking box. H. R. Wright. No. 1,433,587; Oct. 31.
 Blacking stand. W. H. Colby. No. 1,411,607; Apr. 4.
 Blacksmith's tool set. A. L. Ligon. No. 1,411,970; Apr. 4.
 Blade-grinding device. W. C. Delzell. No. 1,438,098; Dec. 5.
 Blade-holding device. A. M. Remington. No. 1,405,867; Feb. 7.
 Blade shroud, Interlocking. J. E. Snyder. No. 1,423,466; July 18.
 Blading. W. B. Flanders. No. 1,424,242; Aug. 1.
 Blancher. F. A. Foster and J. E. Fraley. No. 1,435,285; Nov. 14.
 Blank-cutting machine. W. Fuhr. No. 1,428,952; Sept. 12.
 Blank-dressing machine, Automatic. R. M. Heames. No. 1,414,642; May 2.
 Blank feeder. L. E. La Bombard. (Reissue.) No. 1,5293; Feb. 28.
 Blank-feeding mechanism. A. Novick. No. 1,432,031; Oct. 17.
 Blank-handling mechanism. R. C. Simmons. No. 1,423,630; July 25.
 Blank holding and ejecting mechanism. H. C. Hook. No. 1,426,738; Aug. 22.
 Blank locating devices. A. Novick. No. 1,407,565; Feb. 21.
 Blank or sheet, Mailing. A. W. Harrison. No. 1,405,131; Jan. 31.
 Blank pickers, Safety stop for. A. Novick. No. 1,432,032; Oct. 17.
 Blanks, Apparatus for feeding and gumming. J. D. Relf-snyder and G. H. Fath. No. 1,403,635; Jan. 17.
 Blanks, Bifurcating. R. L. Wilcox. Nos. 1,424,539-40; Aug. 1.
 Blanks, Bifurcating. R. L. Wilcox. No. 1,429,990; Sept. 26.
 Blanks, Folder for prescription. R. B. and L. Taylor. No. 1,423,473; July 18.
 Blanks, Machine for cutting. R. L. Wilcox. No. 1,408,916; Mar. 7.

- Blanks, Machine for notching. J. A. Moore. No. 1,404,788; Jan. 31.
- Blanks, Making hexagonal hot-metal pieces for making hexagonal nut. J. A. Costello. No. 1,405,969; Feb. 7.
- Blanket, Animal. S. H. Mallinson. No. 1,437,255; Nov. 28.
- Blanket, Lineman's. C. A. Kingsbury. No. 1,403,034; Jan. 10.
- Blast furnace. J. Kennedy. No. 1,435,857; Nov. 14.
- Blast furnace. W. Winkelman. No. 1,402,464; Jan. 3.
- Blast furnaces and the like, Sealing of cracks in the lining of. T. Kennan. No. 1,423,332; July 18.
- Blasting battery, Miner's. J. S. Beeneck. No. 1,408,435; Mar. 7.
- Blasting cap. A. La Motte. No. 1,424,204; Aug. 1.
- Blasting charge. G. Weber. No. 1,440,041; Dec. 26.
- Blasting detonator. W. Eschbach. No. 1,438,431; Dec. 12.
- Blasting with liquid air and producing same, Cartridge for. A. Kowatsch. No. 1,424,488; Aug. 1.
- Blast-roasting apparatus and the like. G. Rigg. No. 1,421,989; July 4.
- Bleaching and cleaning composition. C. McAdam and V. O. Olsen. Nos. 1,434,550-1; Nov. 7.
- Bleaching and dyeing vegetable and animal fibers. A. S. Roberts. No. 1,429,775; Sept. 19.
- Bleaching liquid and manufacturing same. P. E. Nelson. No. 1,414,039; Apr. 25.
- Bleaching material. H. B. Smith. No. 1,404,242; Jan. 24.
- Bleaching powder and producing the same. E. T. Ladd and E. C. Speiden. No. 1,409,955; Mar. 21.
- Bleach solutions, Preparation of liquid. J. H. Macmahon. No. 1,426,752; Aug. 22.
- Blending, grading, and bagging bin. N. M. Miller. No. 1,440,165; Dec. 26.
- Blind and curtain support, Combination. E. Zwahlen. No. 1,425,160; Aug. 8.
- Blinder. Z. T. Miller. Nos. 1,406,675-6; Feb. 14.
- Block: See—
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| Automobile block. | Pounding block. |
| Bench block. | Pully block. |
| Building block. | Safety car block. |
| Button block. | Sheave block. |
| Car-wheel-rerailing block. | Sludge-table block. |
| Chock block. | Snatch block. |
| Concrete block. | Tackle block. |
| Concrete building block. | Terminal block. |
| Cutting block. | Tiling block. |
| Grinding block. | Toy building block. |
| Juvenile block. | Track-paving block. |
| Leg block. | Traveling block. |
| Metal fire block. | Ventilated block. |
| Paving block. | Wheel block. |
- Block and deadlatch, Automatic. W. O. Llewellyn. No. 1,438,046; Dec. 5.
- Block and tackle apparatus. R. S. Rodier. No. 1,436,608; Nov. 21.
- Block form. A. J. Musser. No. 1,402,084; Jan. 3.
- Block mold. E. B. Howell. No. 1,421,006; June 27.
- Block mold, Curved. D. Fix. No. 1,418,636; June 6.
- Block-signal system, Directionally-controlled. R. J. Hewett. No. 1,436,711; Nov. 28.
- Block-signaling arrangement and the like. G. Yseboodt. No. 1,433,330; Oct. 24.
- Block-uniting means. H. W. Falconer. No. 1,430,540; Oct. 3.
- Blocks, Cable guard for tackle. W. J. Robertson and H. E. Becker. No. 1,436,725; Nov. 28.
- Blocks, Core for making ventilated. E. L. Page. No. 1,422,370; July 11.
- Blocks, Machine for making plastic. J. Mazer. No. 1,437,537; Dec. 5.
- Blood-cell calculator. M. M. Marbel. No. 1,418,384; June 6.
- Blood-pressure and respiration instrument, Combination. E. L. Fisk. No. 1,433,679; Oct. 31.
- Bloomers. H. Sacks. Nos. 1,425,794-5; Aug. 15.
- Bloomers. J. Spitzer. No. 1,432,091; Oct. 17.
- Bloomers. H. M. Walsh. No. 1,426,525; Aug. 22.
- Blowing mill. J. L. Albiez. No. 1,429,311; Sept. 19.
- Blotter. L. V. Aronson. No. 1,411,557; Apr. 4.
- Blotter. F. A. Fuller. No. 1,422,555; July 11.
- Blotter. G. D. Parker. No. 1,416,863; May 23.
- Blotter holder, Flexed. N. S. Hillyard. No. 1,415,642; May 9.
- Blotter, Rocking. H. E. Peck. No. 1,437,909; Dec. 5.
- Blotter top. H. E. Peck. No. 1,437,908; Dec. 5.
- Blotter, Wrist. E. R. Bratland. No. 1,424,981; Aug. 8.
- Blower. G. Clements. No. 1,423,190; July 18.
- Blower. A. Daignault. No. 1,431,780; Oct. 10.
- Blower. N. E. Funk. No. 1,418,910; June 6.
- Blower. J. H. Morgan. No. 1,416,229; May 16.
- Blower. H. F. Schmidt. No. 1,407,889; Feb. 28.
- Blower-discharge-pipe-operating device. C. and A. Gunning. No. 1,421,080; June 27.
- Blower tip. C. Cotton and I. L. Rodstrom. No. 1,438,902; Dec. 12.
- Blower, Turbine-driven. F. H. C. Coppus. No. 1,427,150; Aug. 29.
- Blow-out, Safety. D. F. Keith. No. 1,426,650; Aug. 22.
- Blow-out patch. G. S. Hamnett. No. 1,435,466; Nov. 14.
- Blowpipe. E. Fouché. No. 1,418,245; May 30.
- Blowpipe. J. Harris. No. 1,408,194; Aug. 28.
- Blowpipe. J. Harris. No. 1,424,163; Aug. 1.
- Blowpipe. J. Harris. No. 1,424,355; Aug. 1.
- Blowpipe. W. L. Herron. No. 1,412,243; Apr. 11.
- Blowpipe. A. E. King. No. 1,420,107; June 20.
- Blowpipe. W. J. Leighty and I. Allison. No. 1,409,220; Mar. 14.
- Blowpipe. E. C. Martin. No. 1,412,211; Apr. 11.
- Blowpipe. E. L. Ragonnet. No. 1,417,628; May 30.
- Blowpipe, Oxycetylene. J. Wass and R. S. MacGregor. No. 1,409,433; Mar. 14.
- Blowpipes, Bunsen attachment for. C. B. Rogers. No. 1,420,947; June 27.
- Blowtorch. F. E. Bingham. No. 1,425,362; Aug. 8.
- Blowtorch. H. G. Donigan. No. 1,405,978; Feb. 7.
- Blowtorch. J. L. Layton and G. P. Wallace. No. 1,412,689; Apr. 11.
- Blowtorch. R. E. Patchel. No. 1,431,031; Oct. 3.
- Blowtorch furnace. M. V. Streit. No. 1,432,801; Oct. 24.
- Board: See—
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| Baker's peel board. | Machine board. |
| Building board. | Motor-supporting board. |
| Bulletin board. | Mounting board. |
| Drain board. | Number board. |
| Educational board. | Plaster board. |
| Electrical instrument board. | Plaster-receiving board. |
| Fiber board. | Plastic board. |
| Foldable ironing board. | Running board. |
| Game board. | Scoop board. |
| Gauge block. | Scrubbing board. |
| Glass-cutting board. | Sign board. |
| Gypsum wall board. | Stove board. |
| Instrument board. | Surf board. |
| Ironing board. | Swimming board. |
| Lath board. | Tackle block. |
| | Tester board. |
- Board. H. C. Lord. No. 1,433,896; Oct. 31.
- Board, Machine for feeding corrugated. B. Heinrichs. No. 1,437,843; Dec. 5.
- Board or slab, Building. C. W. Stevens. No. 1,434,509; Nov. 7.
- Board-pulling tool. J. M. Pederson. No. 1,415,693; May 9.
- Boat. C. J. Baer. No. 1,403,828; Jan. 17.
- Boat. C. J. Baer. No. 1,406,602; Feb. 14.
- Boat. W. H. Goldson. No. 1,412,517; Apr. 11.
- Boat. A. Nunez. No. 1,432,611; Oct. 17.
- Boat. J. Solack. No. 1,424,044; July 25.
- Boat and making the same. C. A. Ward. No. 1,436,418; Nov. 21.
- Boat, Collapsible. H. Meyer. No. 1,419,464; June 13.
- Boat, Collapsible. L. E. Towers. No. 1,434,570; Nov. 7.
- Boat construction. V. S. Downing. No. 1,408,178; Feb. 28.
- Boat, Fishing. A. Madörin. No. 1,414,429; May 2.
- Boat, Flying. C. Dornier. No. 1,438,986; Dec. 19.
- Boat, Gliding. M. M. E. Besson. No. 1,413,383; Apr. 18.
- Boat hatch. A. D. Newcomb. No. 1,416,499; May 16.
- Boat-launching apparatus. G. Wright. No. 1,424,227; Aug. 1.
- Boat, Motor. M. Beebe. No. 1,431,924; Oct. 17.
- Boat, Multiple-hull. F. G. Creed. No. 1,422,542; July 11.
- Boat, Power. C. A. Criquei. No. 1,401,963; Jan. 3.
- Boat, Power. L. A. Dunajeff. No. 1,412,848; Apr. 18.
- Boat propeller. A. Bink. No. 1,412,229; Aug. 11.
- Boat-propelling device. S. Wisniewski. No. 1,410,048; Mar. 21.
- Boat-propelling device. S. Wisniewski. No. 1,434,868; Nov. 7.
- Boat, Reversible. T. H. Gaskin. No. 1,408,580; Mar. 7.
- Boat, Side-dumping. F. P. Eastman. No. 1,439,661; Dec. 19.
- Boat, Submarine. K. von Sanden and H. Techel. No. 1,432,142; Oct. 17.
- Boat, Submarine. O. Flamm. No. 1,429,941; Sept. 26.
- Boat, Submarine escape. O. Tervo. No. 1,405,728; Feb. 7.
- Boat, Submersible flying. J. Ardo. No. 1,421,369; July 4.
- Boats, Apparatus for detecting and indicating the presence of submarine. G. E. Elia. No. 1,430,162; Sept. 26.
- Boats, Blade propeller for submarine. G. and U. Antoni. No. 1,411,769; Apr. 4.
- Boats, Device for suspending and releasing ships'. A. W. L. Schermuly. No. 1,402,662; Jan. 3.
- Boats, Engaging and disengaging gear for ships'. O. J. McGowan. No. 1,403,798; Jan. 17.
- Boats, Housed cleats for submarine. H. H. Hoffman. No. 1,402,496; Jan. 3.
- Boats, Hydroplane-operating mechanism for submarine. J. F. W. Kolvig. No. 1,428,335; Sept. 5.
- Boats, Means for detecting submarine. E. A. Sperry. No. 1,427,560; Aug. 29.
- Boats, Oarlock for. A. D. Newcomb. No. 1,408,129; Feb. 28.
- Boats, Signaling means on submarine. O. von Truppel. No. 1,405,364; Jan. 31.
- Boats, Suspension tackle for. W. J. Farley. No. 1,432,748; Oct. 24.
- Boats, System for indicating the speed of. F. B. Sanborn. No. 1,407,172; Feb. 21.
- Boatswain's seat. P. Giannone. No. 1,428,369; Sept. 5.
- Robbin. J. D. Joyce. No. 1,435,475; Nov. 14.
- Robbin-case lock. N. E. Laliberte. No. 1,414,026; Apr. 25.
- Robbin-cleaning machine. A. L. Stutts. No. 1,412,719; Apr. 11.

Alphabetical list of inventions—Continued.

- Bobbin or cap feeler. W. H. Baker and C. E. Carter. No. 1,403,728; Jan. 17.
 Bobbin-stripping machine. G. K. Hannah, S. M. Tilton, and M. Kaarlela. No. 1,439,162; Dec. 19.
 Bobbin-winder. P. F. Douglas. No. 1,423,313; July 18.
 Bobbin-winding machine. P. A. Herr. No. 1,430,079; Sept. 26.
 Bobbins, Machine for cleaning roving. J. A. Lonzo. No. 1,426,303; Aug. 15.
 Bobbins, Securing the end windings of. G. Sieber. No. 1,411,460; Apr. 4.
 Bobbinet-making machine. O. Seeberger. No. 1,421,579; July 4.
 Bobsted, O. M. Gorder. No. 1,418,299; June 6.
 Bodies, and making the same, Charge or block for use in practising processes involving chemical reactions, more particularly reactions between solid and gaseous. W. Hoopes. No. 1,415,036; May 9.
 Body construction, Removable. D. W. Perin. No. 1,418,968; June 6.
 Body, Instrument for examining cavities of the. G. Wolf. No. 1,431,902; Oct. 10.
 Body maker, Lapped-seam. M. Schaeffer. No. 1,434,229; Oct. 31.
 Body member, Artificial. R. F. Armstrong. No. 1,423,296; July 18.
 Body subdivision. W. C. Anthony. No. 1,425,821; Aug. 15.
 Body support, Convertible. S. A. Ekehorn. No. 1,405,768; Feb. 7.
 Boiler: See—
 Double boiler. Sectional boiler.
 Electric boiler. Steam boiler.
 Electrically-heated boiler. Superheater boiler.
 Hand-operated ham boiler. Water-tube boiler.
 Power-operated ham boiler.
 Boiler. E. Ash. No. 1,408,717; Mar. 7.
 Boiler. J. F. L. Baker. No. 1,408,244; Feb. 28.
 Boiler. W. A. Cornock. No. 1,412,801; Apr. 11.
 Boiler. J. J. Duffy. No. 1,411,327; Apr. 4.
 Boiler. C. Duquenne. No. 1,411,880; Apr. 4.
 Boiler. P. H. Ferrier, Jr. No. 1,416,805; May 23.
 Boiler. W. F. Groscup. No. 1,416,286; May 16.
 Boiler. H. Harding. No. 1,438,596; Dec. 12.
 Boiler. M. J. Healy. No. 1,421,778; July 4.
 Boiler. F. E. Key. No. 1,409,345; Mar. 14.
 Boiler. J. Kourek. No. 1,404,033; Jan. 17.
 Boiler. D. M. Naismith. No. 1,426,590; Aug. 22.
 Boiler. D. M. Naismith. No. 1,432,721; Oct. 17.
 Boiler. P. Wright. No. 1,437,790; Dec. 5.
 Boiler and furnace grate. M. L. Foote and W. M. Kingsbury. No. 1,414,732; May 2.
 Boiler and strainer, Combination. M. Miller. No. 1,428,388; Sept. 5.
 Boiler baffles, Tie or block for. S. E. Diescher. No. 1,431,936; Oct. 17.
 Boiler-circulating device. V. Andrioli. No. 1,403,534; Jan. 17.
 Boiler cleaner. C. M. Garland. No. 1,416,552; May 16.
 Boiler cleaner. F. O. Nitch. No. 1,437,857; Dec. 5.
 Boiler cleaner. A. A. Olson. No. 1,418,670; June 6.
 Boiler-cleaning system, Waste-heat. J. E. Bell. No. 1,408,973; Mar. 7.
 Boiler clean-out device, Steam. M. Huffman. No. 1,410,312; Mar. 21.
 Boiler clean-out device, Steam. M. Huffman. No. 1,416,207; May 16.
 Boiler construction. J. Doherty. No. 1,402,843; Jan. 10.
 Boiler controller. J. F. Kelly. No. 1,433,727; Oct. 31.
 Boiler-diagramming apparatus. R. Gonzalez. No. 1,403,156; Jan. 10.
 Boiler, Double. W. Jones. No. 1,408,356; Feb. 28.
 Boiler feed. O. Nelson. No. 1,433,968; Oct. 31.
 Boiler feed, Automatic. J. S. Lee. No. 1,425,394; Aug. 8.
 Boiler-feed regulation. J. H. Murray. No. 1,435,546; Nov. 14.
 Boiler-feed water supply and steam-condensing plant. H. Fothergill and J. Gunn. No. 1,408,574; Mar. 7.
 Boiler-flue baffle. B. Musgrave. No. 1,436,190; Nov. 21.
 Boiler for traction use and other uses, High-pressure. T. J. McDonald. No. 1,417,615; May 30.
 Boiler front-end hinge, Locomotive. H. Vissering. No. 1,431,197; Oct. 10.
 Boiler furnace. E. Weyerman. No. 1,435,678; Nov. 14.
 Boiler furnace. B. F. Wood. No. 1,428,128; Sept. 5.
 Boiler furnace, Hot-blast. W. M. Davis. No. 1,440,342; Dec. 26.
 Boiler-fur preventative. O. L. K. Andersen. No. 1,416,925; May 23.
 Boiler, Steam. H. O. Prater. No. 1,407,217; Feb. 21.
 Boiler, Steam-generating. F. J. Vaux. No. 1,402,388; Jan. 3.
 Boiler structure, Steam. E. G. Ofeldt. No. 1,432,488; Oct. 17.
 Boiler system, Waste-heat. J. E. Bell. No. 1,408,972; Mar. 7.
 Boiler tool. J. W. Faessler. No. 1,439,622; Dec. 19.
 Boiler tool. G. R. Maupin. Nos. 1,439,569-70; Dec. 19.
 Boiler tool, Combination. G. R. Maupin. No. 1,439,568; Dec. 19.
 Boiler-tube cleaner. F. W. Linaker. No. 1,413,601; Apr. 25.
 Boiler tubes, Gauge for. J. B. Weeks. No. 1,440,322; Dec. 26.
 Boiler, Vertical. S. Hallander. No. 1,406,729; Feb. 14.
 Boiler-washing systems, Separator for. F. S. Wichman. No. 1,416,538; May 16.
 Boiler with superheater. B. Broido. No. 1,411,704; Apr. 4.
 Boiler with superheater. B. Broido. No. 1,417,023; May 23.
 Boiler with superheater, Water-tube. B. Broido. No. 1,417,024; May 23.
 Boilers and applying same, Mud ring for. F. C. Stimmel. No. 1,416,762; May 23.
 Boilers, Apparatus for blowing soot from tubes of. C. M. Garland. No. 1,416,553; May 16.
 Boilers, Apparatus for preventing scale deposit and foaming in. A. A. Stutsman. No. 1,419,701; June 13.
 Boilers, Apparatus for the liquid-fuel firing of steam. W. M. Burdon. No. 1,423,183; July 18.
 Boilers, Apparatus for washing out and refilling. S. Otis. No. 1,418,092; May 30.
 Boilers, Arch for the fire boxes of. W. J. Stoop. No. 1,424,948; Aug. 8.
 Boilers, Arrangement for the production of water circulation in. M. H. Voigt. No. 1,439,278; Dec. 19.
 Boilers, Auxiliary pressure-relief device for steam. C. W. Obert. No. 1,429,296; Sept. 19.
 Boilers, evaporators, economizers, and the like. Preventing the formation of scale in steam. K. Schnetzer. No. 1,436,686; Nov. 28.
 Boilers, Gasket for handhole plates for water-tube. P. H. Mahoney. No. 1,424,930; Aug. 8.
 Boilers, Making headers for tubular. J. J. Cain. No. 1,420,241; June 20.
 Boilers, Manufacturing steam and hot-water. H. A. Smock. No. 1,405,346; Jan. 31.
 Boilers, Mazout burner of the combustion-under-pressure type for steam. R. Sirouet. No. 1,414,099; Apr. 25.
 Boilers, Means for controlling the operation of steam. V. Z. Caracristi and C. H. Smoot. No. 1,437,719; Dec. 5.
 Boilers, Means for testing stay bolts for. E. I. Dodds. No. 1,414,075; Apr. 25.
 Boilers, Method of and means for blocking saddles for steam. R. Rees. No. 1,431,041; Oct. 3.
 Boilers or stills, Liquid-level-controlling device for. V. L. Emerson. No. 1,427,793; Sept. 5.
 Boilers, pipes, and the like, Covering for. E. Spicer. No. 1,436,298; Nov. 21.
 Boilers, Safety signal device for. J. C. Luedke. No. 1,424,313; Aug. 1.
 Boilers, Seal for furnace chambers of. N. E. Lewis. No. 1,402,779; Jan. 10.
 Boilers, Stay-bolt structure for. E. I. Dodds. Nos. 1,428,536-7; Sept. 12.
 Boilers, Stay-bolt structure for. J. R. Flannery. No. 1,428,541; Sept. 12.
 Boilers, Water-level indicator for. P. H. Gentzel. No. 1,405,832; Feb. 7.
 Boilers, Water purifier for steam. G. J. Woodhouse. No. 1,432,941; Oct. 24.
 Boilers with antiscald compound, Means for supplying. F. Martino. No. 1,434,251; Oct. 31.
 Boiling and skimming apparatus, Sirup. B. Taylor. No. 1,421,108; June 27.
 Boll-weevil catcher. H. J. Pope. No. 1,408,030; Feb. 28.
 Boll-weevil catcher. W. Stanalan. No. 1,424,265; Aug. 1.
 Boll-weevil collector. D. R. Stubbs. No. 1,413,808; Apr. 25.
 Boll-weevil destroyer. P. B. Weiss. No. 1,426,234; Aug. 15.
 Boll-weevil, Destroying the. H. H. C. Dunwoody. No. 1,431,880; Oct. 10.
 Boll-weevil exterminator. J. B. Fenley. No. 1,431,108; Oct. 3.
 Boll-weevil exterminators, Poison-distributing attachment for. J. M. Saladin. No. 1,439,980; Dec. 26.
 Boll-weevil trap. J. A. Rylander. No. 1,409,973; Mar. 21.
 Boll weevils, Machine for catching and destroying. D. P. Elliott. No. 1,405,573; Feb. 7.
 Boll weevils, Preparation for destroying. B. B. Gray. No. 1,403,403; Jan. 10.
 Bolster. L. G. Miller. No. 1,436,187; Nov. 21.
 Bolster and chock. A. B. Cadman. No. 1,411,403; Apr. 4.
 Bolster-locking center pin. J. F. O'Connor. No. 1,434,499; Nov. 7.
 Bolster-locking device. C. E. Dath. No. 1,402,842; Jan. 10.
 Bolster stake. J. Pelmar, Sr. No. 1,420,691; June 27.
 Bolsters, Repair king post for. R. O. Shaw. No. 1,425,703; Aug. 15.
 Bolt: See—
 Clamping bolt. Self-lubricating bolt.
 Door bolt. Shackle bolt.
 Expansion bolt. Spring bolt.
 Key bolt. Stay bolt.
 King bolt. Stove bolt.
 Latch bolt.
 Bolt. C. Fassett. No. 1,429,859; Sept. 19.
 Bolt. R. Pinto. No. 1,403,813; Jan. 17.
 Bolt. T. C. Restak. No. 1,427,635; Aug. 29.
 Bolt. M. K. Sessler. No. 1,415,487; May 9.
 Bolt anchor. J. Kennedy. Nos. 1,410,259-60; Mar. 21.
 Bolt anchor. J. Kennedy. No. 1,435,927; Nov. 21.
 Bolt anchor. H. W. Pleister. Nos. 1,429,298-9; Sept. 19.

- Bolt clamp. W. E. Brillhart. No. 1,420,519; June 20.
 Bolt clipper. A. Hailand. No. 1,411,785; Apr. 4.
 Bolt, Convertible. D. G. Carter. No. 1,414,979; May 2.
 Bolters, Flexible conduit for. C. E. Miner. No. 1,407,211; Feb. 21.
 Bolt, Expansion. D. R. Sherwood. No. 1,417,209; May 23.
 Bolt fastener. W. H. Appleby. No. 1,427,253; Aug. 29.
 Bolt-finishing machine. H. Crehan. No. 1,420,410; June 20.
 Bolt holder. W. H. Pridemore. No. 1,412,965; Apr. 18.
 Bolting machine. A. Wolf. No. 1,414,851; May 2.
 Bolting-up device. W. Erickson. No. 1,413,015; Apr. 18.
 Bolting-up device. F. N. Hallett. No. 1,420,424; June 20.
 Bolting-up device. J. Ratz. No. 1,405,739; Feb. 7.
 Bolting-up device. J. Stanmore and D. Kennedy. No. 1,415,726; May 9.
 Bolting-up device. L. Van Winkle. No. 1,404,914; Jan. 31.
 Bolting-up machine. D. Eisinga. No. 1,413,014; Apr. 18.
 Bolt-retaining device. G. B. Thomas. No. 1,429,117; Sept. 12.
 Bolt socket, Carriage-. K. Koel. No. 1,437,811; Dec. 5.
 Bolt socket, Sill-. A. J. Johnson. No. 1,434,121; Oct. 31.
 Bolts, Auxiliary lock for. F. L. Bethge and J. W. Storer. No. 1,436,620; Nov. 21.
 Bolts, Detent device for locking. W. B. Bolles. No. 1,431,562; Oct. 10.
 Bolts or the like, Method and apparatus for installing. J. Taylor. No. 1,433,429; Oct. 24.
 Bolts, Quick-release device for clamp. W. J. Triggs. No. 1,435,433; Nov. 14.
 Bolts, rivets, and the like, Securing washers to. C. C. Collette. No. 1,435,586; Nov. 14.
 Bomb, Aerial. E. C. Frisk. No. 1,406,633; Feb. 14.
 Bomb, Incendiary. J. H. Hammond, jr. No. 1,436,248; Nov. 21.
 Bomb structure. E. E. Neal. No. 1,415,947; May 16.
 Bond. G. A. Boyden. No. 1,411,838; Apr. 4.
 Bone resector. F. E. Miller. No. 1,423,866; July 25.
 Book. J. G. Hall. No. 1,426,291; Aug. 15.
 Book. C. R. Hoyne. No. 1,405,134; Jan. 31.
 Book and cover therefor, Manifold sales. F. Hachmann. No. 1,421,461; July 4.
 Book and savings bank combined, Bank. E. D. Smith. No. 1,423,270; July 18.
 Book, Audit account. F. B. Jager. No. 1,408,741; Mar. 7.
 Book, Bank. M. Lichter. No. 1,419,065; June 6.
 Bookbinder. J. P. Osterloh. No. 1,411,373; Apr. 4.
 Bookbinding. E. A. Clauss and D. H. Adamson. No. 1,426,043; Aug. 15.
 Bookbinding. J. C. Dawson. No. 1,410,000; Mar. 21.
 Bookbinding machinery. J. Murray. No. 1,410,498; Mar. 21.
 Book carrier. M. Maguire. No. 1,411,175; Mar. 28.
 Bookcase. A. J. Koepsell. No. 1,421,012; June 27.
 Bookcase and drop-down operating mechanism. G. Knechtel. No. 1,403,037; Jan. 10.
 Book, Cash-sales. G. Hartrick. No. 1,429,873; Sept. 19.
 Book container. K. A. Klopff. No. 1,438,181; Dec. 12.
 Book cover and binder. R. J. Cross. No. 1,424,622; Aug. 1.
 Book-cover-attaching means. F. D. Pitt. No. 1,423,017; July 18.
 Book cover, Detachable. W. W. Dismukes. No. 1,407,052; Feb. 21.
 Book-cover hinge. H. C. Miller. No. 1,437,854; Dec. 5.
 Book cover, Sales-. F. Hachmann. Nos. 1,426,631-2; Aug. 22.
 Book covers and applying same, Blank label for. O. Polanek. No. 1,436,403; Nov. 21.
 Book covers, Machine for affixing material to and embellishing. M. W. Voigtman. No. 1,424,269; Aug. 1.
 Book covers or cases and the like, Machine for flattening or straightening. J. Murray. No. 1,424,583; Aug. 1.
 Book covers, Pencil-operated lock for. J. C. F. Schafer. No. 1,419,411; June 13.
 Book end. M. W. Dixon. No. 1,409,136; Mar. 7.
 Book for income-tax returns. L. J. G. P., and H. M. Gregerson. No. 1,427,951; Sept. 5.
 Book hanger. E. W. Dickerson. No. 1,405,818; Feb. 7.
 Book hanger and advertising device. F. A. Watkins. No. 1,410,976; Mar. 28.
 Bookholder. W. V. Coate. No. 1,428,757; Sept. 12.
 Bookholder. R. M. Davis. No. 1,427,074; Aug. 22.
 Bookholder, Student's. W. Cohen. No. 1,404,093; Jan. 17.
 Book-holding attachment. A. L. Radlein and C. G. Nelson. No. 1,432,620; Oct. 17.
 Bookkeeping and the like, Means for eliminating errors in. W. J. de Hoog. No. 1,433,343; Oct. 24.
 Bookkeeping entry sheet. G. A. Lambert. No. 1,419,275; June 18.
 Bookkeeping machine. C. H. Bright, Jr. No. 1,411,679; Apr. 4.
 Book, Loose-leaf. R. G. Whitlock. Nos. 1,430,046-7; Sept. 26.
 Book, Loose-leaf. W. Wilburger. No. 1,437,329; Nov. 28.
 Book, Manifold sales. E. K. Bottle. No. 1,435,145; Nov. 14.
 Bookmark. M. J. Conter. No. 1,438,299; Dec. 12.
 Bookmark. A. Grimm. No. 1,415,631; May 9.
 Bookmark. W. Kleckhefer. No. 1,420,265; June 20.
 Bookmarker. G. W. Stone. No. 1,427,334; Aug. 29.
 Bookmarker and leaf holder, Combined. W. F. Edwards. No. 1,461,106; Oct. 3.
 Book or binder, Loose-leaf. J. W. Myatt. No. 1,412,701; Apr. 11.
 Bookrack, Extensible. J. A. Krivacs. No. 1,415,582; May 9.
 Book, Record. W. L. Fales. No. 1,432,020; Oct. 17.
 Book, Renewable or loose leaf. G. A. Bennett and F. B. A. Kirsten. No. 1,406,166; Feb. 14.
 Book, Sales. J. H. Pitts. No. 1,440,240; Dec. 26.
 Book, Sales. J. N. Powers. No. 1,425,690; Aug. 15.
 Book, Savings and insurance account. E. J. House. No. 1,423,114; July 18.
 Book support. E. J. Sweetland. No. 1,433,162; Oct. 24.
 Books, Cover-attaching means for. W. P. Pitt. No. 1,423,018; July 18.
 Books, etc., Apparatus for disinfecting. W. H. Rademakers. No. 1,412,370; Apr. 11.
 Books, Sheet for loose-leaf. F. E. Housh. No. 1,408,509; Mar. 7.
 Books, Stiffener for folding. W. O. Lynch. No. 1,423,129; July 18.
 Books, Support for loose-leaf. F. L. Impey. Nos. 1,414,281-2; Apr. 25.
 Boom adjuster. B. O. Nelson. No. 1,414,890; May 2.
 Boot and shoe. E. B. Hafertepen. No. 1,422,968; July 18.
 Boot and shoe. E. E. Winkler. No. 1,438,204; Dec. 12.
 Boot and valve. L. B. Chandler. No. 1,437,130; Nov. 28.
 Bootblack stands, Foot support for. A. J. Oling. No. 1,411,455; Apr. 4.
 Boot, Knee. J. D. Keller. No. 1,417,742; May 30.
 Bootlast. J. Kramer. No. 1,409,113; Mar. 7.
 Boot or shoe. J. H. Jacobs. No. 1,418,188; May 30.
 Boot or shoe heel. J. E. Grosjean. No. 1,439,547; Dec. 19.
 Boot or shoe provided with upper sections of differently-colored material. D. von Arnhem. No. 1,413,508; Apr. 18.
 Boot or shoe tree. F. J. MacDonald. No. 1,438,962; Dec. 19.
 Boot protector. J. N. Eltgroth. No. 1,422,683; July 11.
 Boot, Storm. J. M. Yaniglos. No. 1,440,328; Dec. 26.
 Boot top. C. Tweedie. (Reissue). No. 15,416; July 18.
 Boots and shoes and stiffeners therefor, Manufacture of. D. B. Macdonald. No. 1,415,378; May 9.
 Boots and shoes, Composite heel for. H. J. Lucier. No. 1,439,564; Dec. 19.
 Boots and shoes, Drying apparatus employed in the manufacturing of. D. B. Macdonald. No. 1,413,862; Apr. 25.
 Boots and shoes, Innersole for. J. Pictzuch. No. 1,427,547; Aug. 29.
 Boots and shoes, Machine for attaching heels to. E. Peyer. No. 1,403,104; Jan. 10.
 Boots and shoes, Protector for. F. Clayden and J. de Frece. No. 1,437,634; Dec. 5.
 Boots and shoes, Removable stiffener for the inside portions of heels of. M. L. Jackson. No. 1,435,068; Nov. 7.
 Boots and shoes, Solution for use in the manufacture of. F. Lee. No. 1,410,685; Mar. 28.
 Boots or shoes, Lasting. C. F. Pym. No. 1,412,892; Apr. 18.
 Booth, Bandit-proof. A. McDonald. No. 1,440,307; Dec. 26.
 Booth, Folding. C. J. de la Fontaine. No. 1,407,260; Feb. 21.
 Booth, Varnish. B. D. Wolf. No. 1,407,011; Feb. 21.
 Booth, Voting. T. J. Purdy. No. 1,426,101; Aug. 15.
 Borax from saline deposits and brines, Extracting. E. P. Stevenson. No. 1,415,205; May 9.
 Bore-enlarging device. I. H. Mills. No. 1,412,538; Apr. 11.
 Bore gauge. H. M. Rockwell. No. 1,423,542; July 25.
 Boring and facing machine, Combination. W. J. Hempy. No. 1,426,987; Aug. 22.
 Boring and milling machine. G. F. Kriesel. No. 1,415,878; May 16.
 Boring and milling machines, Attachment for. G. F. Kriesel. No. 1,424,489; Aug. 1.
 Boring and turning mills, Means for delivering cutting compound to the tools of vertical. F. F. Clarke. No. 1,425,943; Aug. 15.
 Boring apparatus, Earth-. J. H. Herman. No. 1,410,674; Mar. 28.
 Boring bars, Cutter holding means for. W. E. Kelly. No. 1,435,709; Nov. 14.
 Boring device and method for the production of vertical borholes. H. Anschütz-Kaempfe. No. 1,411,896; Apr. 4.
 Boring device for boring machines. J. R. G. Addington. No. 1,409,354; Mar. 14.
 Boring drill, Rotary. F. L. O. Wadsworth. No. 1,404,915; Jan. 31.
 Boring drill, Rotary. F. L. O. Wadsworth. No. 1,408,549; Mar. 7.
 Boring drill, Rotary. F. L. O. Wadsworth. No. 1,417,363; May 23.
 Boring head. C. E. Davis. No. 1,419,448; June 13.
 Boring machine. N. Anderson. No. 1,429,916; Sept. 26.

Alphabetical list of inventions—Continued.

- Boring machine. G. Florillo. No. 1,434,946; Nov. 7.
 Boring machine. J. B. Hadaway and I. C. Buckminster. No. 1,427,805; Sept. 5.
 Boring machine. J. H. Hamlin. No. 1,434,891; Nov. 7.
 Boring machine. C. M. Haviland and L. C. Brown. No. 1,418,923; June 6.
 Boring machine. W. J. Hempy. No. 1,407,031; Feb. 21.
 Boring machine. W. P. Lotz. No. 1,422,456; July 11.
 Boring machine. H. M. Tucker. No. 1,430,339; Sept. 26.
 Boring machine, Brush-block. E. W. Howe. No. 1,420,104; June 20.
 Boring machine, Earth. W. E. Moore. No. 1,409,394; Mar. 14.
 Boring machine, Taper. H. A. Pedrick. No. 1,436,522; Nov. 21.
 Boring mills, Hand-operating means for. E. P. Bullard, Jr. No. 1,410,450; Mar. 21.
 Boring or surfacing tool holder. H. P. Pritchard. No. 1,439,190; Dec. 19.
 Boring tool. C. C. Koehn. No. 1,438,653; Dec. 12.
 Boring tool. W. Michalczyk. No. 1,436,974; Nov. 28.
 Boring tool. J. H. Smith. No. 1,418,485; June 6.
 Boring tool, Expandable. J. Little. No. 1,415,590; May 9.
 Boring-tool-locking device. G. J. Kengel. No. 1,413,280; Apr. 18.
 Boring tools, Guide device for. J. M. Crocker and W. C. Magune. No. 1,408,802; Mar. 7.
 Borneol, Manufacture of. A. Haller. No. 1,415,340; May 9.
 Borneol, Manufacturing. A. Haller. No. 1,429,342; Sept. 19.
 Borneols and camphene, Manufacture of. B. T. Brooks. No. 1,426,036; Aug. 15.
 Bosh plate. J. Smith. No. 1,434,849; Nov. 7.
 Bottle. W. F. Crozier. No. 1,424,558; Aug. 1.
 Bottle. G. G. Gregory. No. 1,416,347; May 16.
 Bottle. D. E. Lutz and F. D. Folsom. No. 1,418,814; June 6.
 Bottle. J. J. Midson. No. 1,428,969; Sept. 12.
 Bottle. A. Miller. No. 1,419,747; June 13.
 Bottle. L. B. Newell. No. 1,419,509; June 13.
 Bottle. W. H. Parsons. Nos. 1,438,851-2; Dec. 12.
 Bottle and groceries holder, Milk. P. Sporer. No. 1,408,840; Mar. 7.
 Bottle and like closing device. E. Burnet. No. 1,431,871; Oct. 10.
 Bottle and nipple protector, Nursing. W. Weissheier. No. 1,421,877; July 4.
 Bottle-filling machine. W. Henry and I. Bassford. No. 1,437,178; Nov. 28.
 Bottle cap. E. G. Baum. (Reissue.) No. 15,491; Nov. 21.
 Bottle cap. E. L. Blakeslee. No. 1,430,719; Oct. 3.
 Bottle cap. F. A. Burton. No. 1,427,259; Aug. 29.
 Bottle cap. S. Hansen. Nos. 1,423,105-6; July 18.
 Bottle cap. G. Kalkbrenner. No. 1,433,552; Oct. 31.
 Bottle cap. O. Kampfe. No. 1,423,431; July 18.
 Bottle cap. C. C. Parker. No. 1,414,705; May 2.
 Bottle cap. E. A. Peterson. No. 1,402,441; Jan. 3.
 Bottle cap. R. W. Sampson. No. 1,430,685; Oct. 3.
 Bottle cap. W. L. Schultz. No. 1,438,600; Dec. 5.
 Bottle cap. W. L. Smith. No. 1,402,454; Jan. 3.
 Bottle cap. C. W. Wagner. No. 1,402,124; Jan. 3.
 Bottle cap. G. A. Williams. No. 1,430,133; Sept. 26.
 Bottle cap and sifter. R. Porter and J. G. Ries. No. 1,420,861; June 27.
 Bottle-cap-dispensing container. L. B. Hoover. No. 1,426,988; Aug. 22.
 Bottle-cap extractor. E. H. Rine. No. 1,436,291; Nov. 21.
 Bottle-cap machine. O. F. Baltzley. No. 1,415,507; May 9.
 Bottle-cap-making machine. C. E. McManus. No. 1,402,780; Jan. 10.
 Bottle cap, Milk. F. M. Hammer. No. 1,431,790; Oct. 10.
 Bottle cap, Milk. E. M. Hill. No. 1,430,308; Sept. 26.
 Bottle cap, Milk. A. B. Kendall. No. 1,426,994; Aug. 22.
 Bottle cap, Milk. T. Kozlosky. No. 1,413,592; Apr. 25.
 Bottle cap, Milk. B. Kuhne. No. 1,434,493; Nov. 7.
 Bottle cap, Milk. W. L. Minick, Jr. and B. F. Mentzer. No. 1,409,194; Mar. 14.
 Bottle cap, Nonfillable. P. Fuzy. No. 1,428,479; Sept. 5.
 Bottle cap, Nursing. M. C. Coombs. No. 1,435,214; Nov. 14.
 Bottle cap, Poison. W. H. Armstrong. No. 1,423,174; July 18.
 Bottle cap, Sediment-containing. J. J. Zini. No. 1,426,241; Aug. 15.
 Bottle caps, Lifter for milk. A. Rochwite. No. 1,408,641; Mar. 7.
 Bottle capper. S. L. Goldman. No. 1,420,836; June 27.
 Bottle capper. M. Janofsky. No. 1,439,366; Dec. 19.
 Bottle capper. C. S. Johnson. No. 1,408,354; Feb. 28.
 Bottle capper. H. J. Leberher. (Reissue.) No. 15,285; Feb. 14.
 Bottle capper. G. D. Munsing. No. 1,408,127; Feb. 28.
 Bottle capper. L. M. Rouse. No. 1,409,585; Mar. 14.
 Bottle capper. L. H. Vote. No. 1,410,278; Mar. 21.
 Bottle-capping apparatus. L. A. Brigel. No. 1,430,283; Sept. 26.
 Bottle-capping device. R. N. Cundall. No. 1,403,941; Jan. 17.
 Bottle-capping device. S. L. Goldman. No. 1,431,651; Oct. 10.
 Bottle-capping device. S. L. Goldman. No. 1,437,890; Dec. 5.
 Bottle-capping device. H. H. Wampler. No. 1,413,640; Apr. 25.
 Bottle-capping machine. E. W. Little. No. 1,420,325; June 20.
 Bottle-capping machine. F. G. Meyer. No. 1,403,971; Jan. 17.
 Bottle-capping machine. F. G. Meyer. No. 1,425,672; Aug. 15.
 Bottle-capping machine. J. Sharp. No. 1,440,246; Dec. 26.
 Bottle-capping machine. G. E. Whitney. No. 1,417,874; May 30.
 Bottle carrier. G. V. Burt. No. 1,436,234; Nov. 21.
 Bottle carrier. C. G. Hackett. No. 1,411,695; Apr. 4.
 Bottle carrier. H. W. Probst. No. 1,407,480; Feb. 21.
 Bottle carrier. A. M. Pruitt. No. 1,425,417; Aug. 8.
 Bottle carrier. R. C. Warner. Nos. 1,439,588-9; Dec. 19.
 Bottle carrier, Milk. W. W. De Long. No. 1,424,995; Aug. 8.
 Bottle carrier, Milk. C. E. Hough. No. 1,422,574; July 11.
 Bottle case, Knockdown. A. L. Wagstaff. No. 1,439,929; Dec. 26.
 Bottle case or container. L. Lewis. No. 1,408,751; Mar. 7.
 Bottle cleaner. E. A. Lee. No. 1,420,714; June 27.
 Bottle closure. E. C. F. W. Bliesath. No. 1,431,358; Oct. 10.
 Bottle closure; J. W. Dudley. No. 1,414,867; May 2.
 Bottle closure. U. Kawasaki. No. 1,439,170; Dec. 19.
 Bottle-closure. J. Kelly. No. 1,420,320; June 20.
 Bottle closure. V. Millity. No. 1,430,313; Sept. 26.
 Bottle closure. F. H. Mills. No. 1,428,295; Sept. 5.
 Bottle closure. J. O. Rollins. No. 1,431,427; Oct. 10.
 Bottle closure. L. Simenowsky. No. 1,408,910; Mar. 7.
 Bottle closure. T. L. Taliaferro. No. 1,425,349; Aug. 8.
 Bottle closure. C. Zehnbauser. No. 1,427,672; Aug. 29.
 Bottle closure, Milk. F. Hachmann. No. 1,418,439; June 6.
 Bottle closure, Milk. W. J. Lowe and A. Sneddon. No. 1,432,476; Oct. 17.
 Bottle container, Sanitary and safety milk. C. Drolet, sr. No. 1,438,907; Dec. 12.
 Bottle-cooling chest. L. H. Bannister. No. 1,418,692; June 6.
 Bottle corking and capping machine. J. Brandstetter. No. 1,402,713; Jan. 3.
 Bottle-corking machine. A. I. Risser. No. 1,435,739; Nov. 14.
 Bottle cover and cap remover, Milk. F. J. Lapointe. No. 1,426,396; Aug. 22.
 Bottle cover, Milk. J. Senio. No. 1,417,282; May 23.
 Bottle crate. L. H. Payne. No. 1,420,444; June 20.
 Bottle crowner. J. J. Gaynor. No. 1,434,996; Nov. 7.
 Bottle, Feeding. L. C. Davis. No. 1,403,148; Jan. 10.
 Bottle filling and capping machine. E. C. Fogle. No. 1,418,146; May 30.
 Bottle-filling apparatus. H. J. Paulsen. No. 1,413,772; Apr. 25.
 Bottle-filling apparatus. F. L. Shelor. No. 1,413,797; Apr. 25.
 Bottle-filling machine. C. W. Desobry. No. 1,419,235; June 13.
 Bottle-filling machine. T. E. Pennock. No. 1,418,203; May 30.
 Bottle-filling machine. H. M. Smith. No. 1,436,732; Nov. 28.
 Bottle holder. W. P. Gold. No. 1,435,839; Nov. 14.
 Bottle holder. R. B. Mitchell. No. 1,436,515; Nov. 21.
 Bottle holder and carrier. H. Simensen. No. 1,414,219; Apr. 25.
 Bottle holder, Detachable nursing. D. Spacke. No. 1,412,900; Apr. 18.
 Bottle holder, Milk. G. D. C. Coddington. No. 1,433,938; Oct. 31.
 Bottle holder, Milk. C. M. Hatcher. No. 1,403,195; Feb. 28.
 Bottle holder, Milk. H. I. Maurer. No. 1,412,128; Apr. 11.
 Bottle holder, Milk. L. T. Perry and D. H. Hale. No. 1,434,144; Oct. 31.
 Bottle holder, Nursing. J. C. Phillips. No. 1,422,223; July 11.
 Bottle holder, Nursing. W. H. Saunders. No. 1,407,681; Feb. 21.
 Bottle holder, Nursing. W. L. Schroth. No. 1,410,608; Mar. 28.
 Bottle inclosure. T. McNamee. No. 1,425,401; Aug. 8.
 Bottle-labeling machine. F. L. Shelor. No. 1,413,795; Apr. 25.
 Bottle-label press. E. E. Kallenbach. No. 1,413,590; Apr. 25.
 Bottle lock, Sanitary milk. J. J. Ruediger. No. 1,414,584; May 2.
 Bottle, Medicine. N. Dial. No. 1,425,456; Aug. 8.
 Bottle, Metallic nursing. J. Tibbatts. No. 1,434,460; Nov. 7.
 Bottle, Milk. W. J. Davis. No. 1,406,983; Feb. 21.

- Bottle, Milk. J. G. Hall. No. 1,423,560; July 25.
 Bottle mouths and a composition of matter usable therefor, Capsuling of corked. S. J. Ingram. No. 1,428,096; Sept. 5.
 Bottle, Nonrefillable. S. E. Freed. No. 1,424,892; Aug. 8.
 Bottle, Nonrefillable. C. W. Freid. No. 1,425,957; Aug. 15.
 Bottle, Nonrefillable. W. R. Gibson. No. 1,403,763; Jan. 17.
 Bottle, Nonrefillable. E. A. Hayden. No. 1,420,545; June 20.
 Bottle, Nonrefillable. V. Millity. No. 1,408,376; Feb. 28.
 Bottle, Nonrefillable. M. Pavlica. No. 1,411,179; Mar. 28.
 Bottle, Nonrefillable. F. Vergano. No. 1,410,430; Mar. 21.
 Bottle, Nonrefillable. W. P. Walsh. No. 1,415,741; May 9.
 Bottle, Nursing. W. S. Alvey. No. 1,418,268; June 6.
 Bottle, Nursing. R. J. Hagerty. No. 1,429,585; Sept. 19.
 Bottle, Nursing. L. H. Orson. No. 1,440,235; Dec. 26.
 Bottle, Nursing. V. I. Sims. No. 1,423,038; July 18.
 Bottle or jar cover. A. J. Soto. No. 1,440,318; Dec. 26.
 Bottle or like closure. F. E. Baldwin. No. 1,410,237; Mar. 21.
 Bottle, Poison. W. F. Laing. No. 1,436,506; Nov. 21.
 Bottle protector. C. S. Murch. No. 1,424,667; Aug. 1.
 Bottle protector, Milk-. H. H. Myers. No. 1,411,868; Apr. 4.
 Bottle receptacle. H. H. Bellman. No. 1,433,107; Oct. 24.
 Bottle receptacle. L. T. Schuberth. No. 1,409,416; Mar. 14.
 Bottle receptacle and mail box, Combination milk-. J. Panik and S. Clebo. No. 1,413,200; May 30.
 Bottle receptacle and mail box, Combined milk-. J. Horvath. No. 1,417,382; May 23.
 Bottle receptacle, Milk-. J. Sandor and J. Toth. No. 1,415,953; May 16.
 Bottle-retaining box. M. Zimmerman. No. 1,428,350; Sept. 5.
 Bottle, Safety. F. Clark. No. 1,430,435; Sept. 26.
 Bottle-sealing device. T. Crabtree. No. 1,440,136; Dec. 26.
 Bottle stopper. A. Y. S. Album. No. 1,419,003; June 6.
 Bottle stopper. A. Y. S. Album. No. 1,435,443; Nov. 14.
 Bottle stopper. J. M. S. Anderson. No. 1,421,118; June 27.
 Bottle stopper. O. Carlson. No. 1,425,237; Aug. 8.
 Bottle stopper. R. Catella. No. 1,429,929; Sept. 26.
 Bottle stopper. A. Crisci. No. 1,433,803; Oct. 31.
 Bottle stopper. W. M. Goodwin and L. E. Phillips. No. 1,432,288; Oct. 17.
 Bottle stopper. C. F. Guard. No. 1,425,009; Aug. 8.
 Bottle stopper. P. J. Hentschel. No. 1,410,250; Mar. 21.
 Bottle stopper. C. Merrill. No. 1,416,227; May 16.
 Bottle stopper. C. F. Thatcher. No. 1,418,035; May 30.
 Bottle stopper. J. Vons. No. 1,437,572; Dec. 5.
 Bottle stopper. H. D. Vredenburg. No. 1,424,862; Aug. 8.
 Bottle stopper and cap. J. O. Williamson. No. 1,438,075; Dec. 5.
 Bottle stopper and making the same. R. Whitaker, jr. No. 1,434,725; Nov. 7.
 Bottle stopper and measuring device, Combined. H. Harvey. No. 1,402,604; Jan. 3.
 Bottle stopper and measuring glass. D. Molinari. No. 1,419,580; June 13.
 Bottle stopper or closure. W. H. A. Brown. No. 1,436,645; Nov. 28.
 Bottle stopper, Safety. J. Furman. No. 1,416,278; May 16.
 Bottle stopper, Sanitary. A. W. Graham. No. 1,426,728; Aug. 22.
 Bottle stoppers, Holder for hot-water. F. E. Baldwin. No. 1,423,593; July 25.
 Bottle stoppers, Machine for grinding glass. G. F. Pin-suti. No. 1,411,511; Apr. 4.
 Bottle stoppers or the like, Attachment for water-. M. C. Schweibert. No. 1,424,740; Aug. 1.
 Bottle-supporting device, Ink-. J. I. Moreland. No. 1,439,255; Dec. 19.
 Bottle-supporting frame, Nursing-. I. B. Cowles. No. 1,428,758; Sept. 12.
 Bottle tap. A. J. Smith. No. 1,438,668; Dec. 12.
 Bottle-testing machine. J. E. Johnson and C. H. Oslund. No. 1,433,284; Oct. 24.
 Bottle, Thermal vacuum nursing. H. H. Lancaster. No. 1,432,344; Oct. 17.
 Bottle-top. J. F. Dowd. No. 1,419,829; June 13.
 Bottle top, Sanitary. C. Lustgarten. No. 1,416,565; May 16.
 Bottle vending and ejecting mechanism, Coin-controlled. C. W. Adams. No. 1,437,741; Dec. 5.
 Bottle washer. R. R. Walker. No. 1,408,848; Mar. 7.
 Bottle-washing apparatus, Label separator and remover for. C. H. Loew and J. R. Gruetter. No. 1,423,342; July 18.
 Bottle-washing machine. W. W. Birnstock. No. 1,435,046; Nov. 7.
 Bottle-washing machine. G. J. Meyer. No. 1,429,960; Sept. 26.
 Bottles against unauthorized removal, Device for securing the corks or stoppers of. P. J. Mackie. No. 1,437,380; Nov. 28.
 Bottles, Air filter for. H. M. Simpson. No. 1,436,917; Nov. 28.
 Bottles and bottle cases, Machine for handling. B. W. Frampton. No. 1,433,128; Oct. 24.
 Bottles and other blown glassware, Machine or apparatus for the manufacture of. E. Roirant. No. 1,438,665; Dec. 12.
 Bottles and the like, Pouring device for. S. C. Price. No. 1,428,297; Sept. 5.
 Bottles and toys, Support for baby. F. Davison. No. 1,435,217; Nov. 14.
 Bottles, Attachment for medicine. R. Harmon. No. 1,421,219; June 27.
 Bottles, Carrier for. H. A. Bloomquist. No. 1,407,630; Feb. 21.
 Bottles, Cork for thermos. J. de Lackner. No. 1,411,283; Apr. 4.
 Bottles, Cork stopper for thermos. J. B. Holmes. No. 1,434,342; Oct. 31.
 Bottles, Device for dispensing contents of. C. A. Rohder. No. 1,408,472; Mar. 7.
 Bottles, Device for holding milk. J. C. Martin. No. 1,407,432; Feb. 21.
 Bottles, etc., Carrier for. A. F. Brautigam. No. 1,424,076; July 25.
 Bottles, etc., Machine for filling. J. F. Geyer. (Reissue.) No. 15,460; Sept. 26.
 Bottles, etc., Machine for making. H. M. Brown. No. 1,406,722; Feb. 14.
 Bottles, Guard for nursing. M. A. and H. M. Snyder. No. 1,438,272; Dec. 12.
 Bottles, Hand crowner for applying crown caps to. H. J. Lebbherz. No. 1,421,698; July 4.
 Bottles, Heater for. C. Anselm. No. 1,434,472; Nov. 7.
 Bottles, jars, and other receptacles, Closure for. J. H. Montgomery. No. 1,427,694; Aug. 29.
 Bottles, jars, and other receptacles, Closure for. C. L. Newland. No. 1,426,209; Aug. 15.
 Bottles, Label or ticket holder for. R. Petman and W. C. Lister. No. 1,410,220; Mar. 21.
 Bottles, Means for filling. H. F. Broadhurst. No. 1,413,960; Apr. 25.
 Bottles, Means for making. R. La France. No. 1,404,206; Jan. 24.
 Bottles, Nipple for nursing. A. C. Thorbjornson. No. 1,414,904; May 2.
 Bottles or other vessels and apparatus therefor, Production of. M. Mathy. No. 1,425,124; Aug. 8.
 Bottles, Packing strip for. H. J. Thompson. No. 1,404,071; Jan. 17.
 Bottles, Portable hand tool for capping, sealing, and un-sealing. O. A. Hanford. No. 1,422,970; July 18.
 Bottles, Pouring nozzle for. J. H. Goebel. No. 1,436,708; Nov. 28.
 Bottles, Sanitary closure for. C. W. Borgner. (Reissue.) No. 15,346; May 2.
 Bottles, Spring shield for nursing. A. J. Fawcett. No. 1,429,198; Sept. 12.
 Bottles, Stopper for hot-water. A. B. Shaw. Nos. 1,423,463-4; July 18.
 Bottles with charged beverages, Machine for filling. H. M. Smith. No. 1,419,697; June 13.
 Bottling mechanism, Mixing attachment for. W. B. Doe. No. 1,409,836; Mar. 14.
 Bouquet carrier. E. H. Harvey. No. 1,436,036; Nov. 21.
 Boutonniere holder. A. Hoffmann. No. 1,425,480; Aug. 8.
 Bow. G. C. Welter. No. 1,418,218; May 30.
 Bowl clamp. T. H. Miller. No. 1,407,702; Feb. 28.
 Bowling alley. S. Bech. No. 1,409,274; Mar. 14.
 Bowling alley. R. B. Hanford. No. 1,432,752; Oct. 24.
 Bowling alley, Automatic. F. J. Severence, G. W. Todd, and G. Deloree. No. 1,431,695; Oct. 10.
 Bowling pins, Means for making cast. R. E. Stanley, Sr. No. 1,422,232; July 11.
 Bowls and the like, Device for suspending. B. Richardson. No. 1,419,307; June 13.
 Box: See—
 Annealing box. Electric-appliance receiving box.
 Automobile tool box. Electric cut-out box.
 Awning box. Electrical outlet box.
 Axle journal box. Exhaust box.
 Battery box. Fare box.
 Blacking box. Feed box.
 Bottle-retaining box. Fiber-board box.
 Burial box. Fire box.
 Candy box. Fire-alarm box.
 Carburizing box. Fireproof lock box.
 Cardboard box. Fish box.
 Cardboard display box. Flower box.
 Card-shuffling box. Foldable box.
 Cigarette box. Folding box.
 Coil box. Folding display box.
 Coin and stamp box. Folding paper box.
 Collapsible box. Food box.
 Combination lunch box. Fruit box.
 Core box. Garment box.
 Covered box. Hairpin box.
 Crate and box. Hat box.
 Display box. Ice box.
 Driving box. Ice-cracking box.
 Dumping box. Illusionary box.
 Electric coil box.

Alphabetical list of inventions—Continued.

Box; Sec—

Journal box.
Junction box.
Locomotive driving box.
Locomotive fire box.
Lug box.
Lunch box.
Knockdown box.
Lamp box.
Live-bait box.
Mail box.
Match box.
Metal box.
Meter kit box.
Milk box.
Nonresalable box.
Oil box.
Outlet box.
Paper box.
Paper-board box.
Paper-display box.
Paper toilet box.
Pasteboard box.
Patch box.
Phonograph sound box.
Phonographic sound box.
Plant box.
Powder box.
Box. B. Cohn. No. 1,416,451; May 16.
Box. E. Dobney. No. 1,424,159; Aug. 1.
Box. R. J. Gearson. No. 1,431,730; Oct. 10.
Box. J. L. Hood. No. 1,411,434; Apr. 4.
Box. C. Jesdale. No. 1,438,180; Dec. 12.
Box. F. Klapproth. No. 1,434,781; Nov. 7.
Box. M. R. Kondolf. No. 1,438,182; Dec. 12.
Box. H. P. Kraft. No. 1,435,312; Nov. 14.
Box. J. F. Maurer. No. 1,412,663; Apr. 11.
Box. W. W. Reid. No. 1,403,869; Jan. 17.
Box. R. I. Rhodes. No. 1,430,029; Sept. 26.
Box. J. V. Rounsefell. No. 1,439,842; Dec. 26.
Box. E. J. Thole. No. 1,424,127; July 25.
Box. F. P. Wood. No. 1,431,616; Oct. 10.
Box. C. T. Wootten. No. 1,418,897; June 6.
Box and attachment therefor. E. C. J. Lloyd. No. 1,423,442; July 18.
Box and crate. T. V. Thomall. No. 1,415,064; May 9.
Box and making same. H. Carle. No. 1,435,149; Nov. 14.
Box and making same. H. B. Smith. No. 1,408,479; Mar. 7.
Box and making the same. L. Binder. No. 1,417,295; May 23.
Box and the like. S. S. Booty. No. 1,424,071; July 25.
Box and wrapper. Pasteboard. H. H. Wagner. No. 1,420,000; June 20.
Box-blank machine. J. B. Schmidt. No. 1,426,608; Aug. 22.
Box-blank material and manufacturing same. Reenforced. G. W. Swift, Jr. No. 1,410,622; Mar. 28.
Box-blank-scoring machine. J. F. Cleary. No. 1,414,549; May 2.
Box blanks. Apparatus for the manufacture of wire-bound. W. G. Zimmerman. No. 1,426,941; Aug. 22.
Box blanks. Corner-cutting machine for. S. S. Gipe. No. 1,416,282; May 16.
Box blanks. Machine for manufacturing. N. A. Fowler. No. 1,402,289; Jan. 3.
Box bodies. Mechanism for arranging and feeding cylindrical. J. C. Thom. No. 1,416,763; May 23.
Box clamp. M. Kunkel. No. 1,426,394; Aug. 22.
Box-closing appliance. J. A. Stock. No. 1,419,590; June 13.
Box closure. T. E. Heitz. No. 1,408,699; Mar. 7.
Box closure and fastener. J. R. Ritter. No. 1,413,994; Apr. 25.
Box construction. C. R. Shafer. No. 1,417,776; May 30.
Box cover and fastening for same. C. Flagstad. No. 1,432,174; Oct. 17.
Box cover. Iron-bound. S. J. Gunn. No. 1,429,134; Sept. 12.
Box-cover support. F. N. Prince. No. 1,418,673; June 6.
Box covers. Device for opening. E. Carlson. No. 1,409,926; Mar. 21.
Box-covering machine. W. F. Morse. No. 1,419,641; June 13.
Box-covering machines. Turn-in finger for. A. J. Morrison. No. 1,424,316; Aug. 1.
Box crate, etc.. Knockdown. H. B. Collins. No. 1,403,233; Jan. 10.
Box fastener. T. A. Arnold. No. 1,437,083; Nov. 28.
Box fastener. S. H. Davis. No. 1,435,589; Nov. 14.
Box fastener. J. Ehmman. No. 1,438,950; Dec. 19.
Box fastener. F. W. Goessling and J. M. Garrett. Nos. 1,402,758-9; Jan. 10.
Box fastener. L. D. Young. No. 1,431,134; Oct. 3.
Box fastening. L. Binder. No. 1,417,296; May 23.
Box-filling machine. M. Paridon. No. 1,433,297; Oct. 24.
Box-filling machine. M. Paridon. No. 1,439,835; Dec. 26.
Box-filling machine. Shuck-feeding mechanism for. C. F. Wright. No. 1,433,328; Oct. 24.
Box-filling machines. Tray-feeding mechanism for. H. C. Schumacher. No. 1,415,900; May 16.
Box folder and like container. G. B. Taylor. No. 1,425,720; Aug. 15.

Remailing box.
Safety box.
Safety and match box.
Safety panel box.
Sand-settling box.
Sheet-metal box.
Sheet-metal display box.
Shipping and dispensing box.
Sound box.
Spring box.
Stacking tote box.
Stamp-canceling mail box.
Stuffing box.
Swinging mail box.
Switch box.
Switch and fuse box.
Talking-machine sound box.
Target box.
Terminal box.
Tool box.
Type box.
Universal spring box.
Vanity box.
Window cooling box.

Box forming and stapling machine. M. J. Milmo. No. 1,238,252; Dec. 12.
Box handle and cover-opening means. F. A. Herrick. No. 1,432,023; Oct. 17.
Box joint. B. A. Lange. No. 1,415,368; May 9.
Box machine. L. W. Darling. No. 1,422,544; July 11.
Box machine. Wirebound. S. F. Bauwens. No. 1,408,336; Feb. 28.
Box-making machine. G. Diamond. No. 1,435,591; Nov. 14.
Box-making machine. R. G. Inwood. No. 1,425,774; Aug. 15.
Box members. Means for aligning and feeding. M. Paridon. No. 1,430,842; Oct. 3.
Box-nailing form. E. V. Oliver. No. 1,416,230; May 16.
Box-nailing machine. E. C. Northrup. No. 1,423,778; July 25.
Box-nailing table. D. W. Ripley. No. 1,436,292; Nov. 21.
Box opener. F. Dreyer. No. 1,409,367; Mar. 14.
Box opener. G. E. Hitchcock. No. 1,437,143; Nov. 28.
Box opener. E. J. Kendall. No. 1,425,385; Aug. 8.
Box opener. N. Morrison. No. 1,409,964; Mar. 21.
Box-opening device. C. S. Humphrey. No. 1,433,456; Oct. 24.
Box or container. A. M. Peacock. No. 1,436,052; Nov. 21.
Box or crate fastening means. Knockdown. J. P. O'Neill. No. 1,405,150; Jan. 31.
Box or package handling apparatus. W. G. Price. No. 1,416,060; May 16.
Box-packing machine. W. A. Hill. No. 1,431,399; Oct. 10.
Box parts or boxes. Machine for use in making. O. C. Thompson. No. 1,410,422; Mar. 21.
Box pasting and sealing machine. G. D. Shawver and H. E. Richardson. No. 1,434,230; Oct. 31.
Box-pressing machine. M. R. Kondolf. No. 1,422,580; July 11.
Box shells. Method of and mechanism for making covered. H. B. Smith. No. 1,402,259; Jan. 3.
Box shoulders. Machine for gluing. A. J. Morrison. No. 1,417,195; May 23.
Box spanner and the like. I. Chadderton. No. 1,410,222; June 13.
Box-strapping machine. D. W. Ripley. No. 1,436,293; Nov. 21.
Box strapping. Thimble for coiled. W. F. Frech. No. 1,433,267; Oct. 24.
Box-strapping tool. D. J. O'Connor. No. 1,413,768; Apr. 25.
Box-strapping tool. G. Wood. No. 1,432,314; Oct. 17.
Box-strap tightener. H. J. M. Howard. No. 1,402,232; Jan. 3.
Box structure. A. D. Kaban. No. 1,439,169; Dec. 19.
Box table. D. C. Klausmeyer. No. 1,420,321; June 20.
Box tops. Machine for applying. G. H. Little. No. 1,419,576; June 13.
Box-tray support. W. L. Buedingen. No. 1,422,028; July 4.
Box-tray support and lifter. H. Hellweg. No. 1,402,928; Jan. 10.
Box trays and covers. Machine for feeding and assembling. C. F. Wright. No. 1,439,856; Dec. 26.
Box-wiring machine. H. C. Shay. No. 1,436,055; Nov. 21.
Boxes and box blanks. Making. H. B. Smith. No. 1,402,261; Jan. 3.
Boxes and other articles. Fastening for. A. W. L. Schermuly. No. 1,406,090; Feb. 7.
Boxes. Apparatus for sealing. A. Pape. No. 1,422,300; July 11.
Boxes, baskets, etc.. Corner iron for. F. W. Goedeke. No. 1,431,887; Oct. 10.
Boxes, cans, and other articles. Machine for washing. G. S. Blakeslee. No. 1,423,300; July 18.
Boxes. Corner fastener for connecting the sides of. L. Seifert. No. 1,431,694; Oct. 10.
Boxes. Cover for. H. Schwenneke. No. 1,416,420; May 16.
Boxes. Cover-placing apparatus for. M. R. Kondolf. No. 1,410,575; Mar. 28.
Boxes, crates, bales, etc.. Device for strapping. F. C. Reinboth. No. 1,431,423; Oct. 10.
Boxes. Device for tensioning the iron bands of. F. C. Reinboth. No. 1,428,060; Sept. 5.
Boxes. Extension for conduit outlet. C. H. Bissell. No. 1,424,443; Aug. 1.
Boxes. Fastening device for wooden. H. Merkel and J. Buecher. No. 1,410,210; Mar. 21.
Boxes. Machine for closing cardboard and the like. W. E. Walmsley. No. 1,438,675; Dec. 12.
Boxes. Machine for making. L. E. La Bombard. No. 1,407,331; Feb. 21.
Boxes. Machine for use in making. E. Emerson. No. 1,432,019; Oct. 17.
Boxes. Machine for use in making. O. C. Thompson. No. 1,438,932; Dec. 12.
Boxes. Machine in use for making. O. C. Thompson. No. 1,406,105; Feb. 7.
Boxes. Machine for use in making wirebound. S. F. Bauwens. No. 1,437,386; Nov. 28.
Boxes. Making stay strips for. W. D. Kimball. No. 1,434,213; Oct. 31.
Boxes or packages from one elevator to another. Apparatus for handling and delivering. W. G. Price. No. 1,428,184; Sept. 5.
Boxes. Tool for closing wire-bound. J. H. Greenstreet. No. 1,422,965; July 18.

- Boxes, Tray support for. W. L. Buedingen. No. 1,428,500; Sept. 5.
- Bowls, Clamping device for drinking. R. Ackerman. No. 1,428,577; Sept. 12.
- Brace: *See*—
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| Adjustable brace. | Foot, toe, and ankle brace. |
| Adjustable rail brace. | Magazine brace. |
| Automobile body brace. | Necktie brace. |
| Back brace. | Rail brace. |
| Bedspring-border brace. | Rivet brace. |
| Broom brace. | Shoulder brace. |
| Circle brace. | Side-car center brace. |
| Corner brace. | Track brace. |
| Fender brace. | Vehicle running-board brace. |
- Brace. F. M. Brown. No. 1,433,776; Oct. 31.
- Brace. S. Lankheet. No. 1,428,484; Sept. 5.
- Brace. A. Mainka. No. 1,408,216; Feb. 28.
- Brace and bit therefor. J. V. Janin. No. 1,428,099; Sept. 5.
- Brace and garment supporter, Combined shoulder. H. M. Foster. No. 1,413,017; Apr. 18.
- Braces and the like, Handle construction for. W. I. Tuttle. No. 1,438,970; Dec. 19.
- Bracelet. J. Albanese. No. 1,433,521; Oct. 31.
- Bracelet. S. Foster, jr. No. 1,439,510; Dec. 19.
- Bracelet. A. Genaille. No. 1,419,370; June 13.
- Bracelet construction. F. and A., Sr., Pfau. No. 1,406,073; Feb. 7.
- Bracelet, Flexible. W. Maguire and A. Bausch. No. 1,405,258; Jan. 31.
- Bracelet link. O. Fessler. No. 1,422,428; July 11.
- Bracelet links, Joint for. E. H. Buchman. No. 1,410,366; Mar. 21.
- Bracelet, Ribbon. R. King. No. 1,406,647; Feb. 14.
- Bracelet, Ribbon. R. King. No. 1,415,366; May 9.
- Bracelets and detachable hinges for same, Link for chain. B. Mestekin. No. 1,440,230; Dec. 26.
- Bracing device. L. C. Ross. No. 1,437,912; Dec. 5.
- Bracket: *See*—
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| Adjustable sign bracket. | Kit-holding bracket. |
| Automobile attaching bracket. | Lamp bracket. |
| Automobile bumper bracket. | Lumber-roller bracket. |
| Awning bracket. | Lunette bracket. |
| Bumper bracket. | Manifold bracket. |
| Bumper-attaching bracket. | Mirror supporting bracket. |
| Bumper-supporting bracket. | Paper supporting and dispensing bracket. |
| Cable roller bracket. | Plane-action bracket. |
| Canopy-frame bracket. | Printometer bracket. |
| Curtain-rod bracket. | Radiator bracket. |
| Dashboard bracket. | Shade bracket. |
| Fire-extinguisher bracket. | Spring bracket. |
| Folding bracket. | Table-leaf bracket. |
| Garment-hanger bracket. | Timer-supporting bracket. |
| Holder bracket. | Top-back bracket. |
- Bracket. J. P. Brinegar. No. 1,405,268; Jan. 31.
- Bracket. T. F. Byron. No. 1,407,251; Feb. 21.
- Bracket. I. E. Clum. No. 1,408,930; Mar. 7.
- Bracket. C. M. Cox. No. 1,409,525; Mar. 14.
- Bracket. G. W. Ferrel. No. 1,418,551; June 6.
- Bracket. F. P. Miller. No. 1,423,535; July 25.
- Bracket and shelf, Adjustable. S. Liskow. No. 1,429,042; Sept. 12.
- Braider or corder. A. H. De Voe. No. 1,432,974; Oct. 24.
- Braiding carrier. A. Petersen. No. 1,439,324; Dec. 19.
- Braiding machine. J. B. Hale. No. 1,434,205; Oct. 31.
- Braiding machine. G. Horn. No. 1,409,297; Mar. 14.
- Braiding machine. G. Horn and E. Stöckemann. No. 1,409,298; Mar. 14.
- Braiding machine. A. Petersen. No. 1,413,773; Apr. 25.
- Braiding machine. P. Rasche. No. 1,428,059; Sept. 5.
- Braiding-machine attachment. G. E. Swan. No. 1,434,320; Oct. 31.
- Braiding-machine carrier. J. B. Hale. No. 1,434,007; Oct. 31.
- Braiding machine, Lace. E. L. Smith. No. 1,427,172; Aug. 29.
- Braiding-machine stop motions, Contact device for. A. Petersen. No. 1,430,680; Oct. 3.
- Braiding or similar machines, Yarn retriever for. S. W. Wardwell. No. 1,423,587; July 25.
- Braiding machines, Carrier drive for. A. Petersen. No. 1,413,931; Apr. 25.
- Braiding machines, Stop mechanism for. C. H. Oslund. No. 1,434,450; Nov. 7.
- Brake: *See*—
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| Air brake. | Fluid-pressure brake. |
| Air-pressure brake. | Friction brake. |
| Antiskid brake. | Gun-mount brake. |
| Auto brake. | Hand brake. |
| Automatic vehicle brake. | Hoist brake. |
| Automatic wagon brake. | Machine brake. |
| Auto vehicle brake. | Phonograph brake. |
| Band brake. | Printing-press brake. |
| Car brake. | Railway brake. |
| Coaster brake. | Safety brake. |
| Countershaft brake. | Slod brake. |
| Electric brake. | Sleigh brake. |
| Electric pneumatic brake. | Trailer brake. |
| Electromagnetic brake. | Vacuum brake. |
| Expanding brake. | Vehicle brake. |
| Fluid brake. | Wagon brake. |
- Brake. W. R. Abell. No. 1,428,673; Sept. 12.
- Brake. P. A. Anderson. No. 1,427,084; Aug. 29.
- Brake. E. E. Boening. No. 1,402,042; Jan. 3.
- Brake. W. T. Bonner. No. 1,426,543; Aug. 22.
- Brake. J. M. Grimm. No. 1,427,801; Sept. 5.
- Brake. M. P. Holmes. No. 1,431,115; Oct. 3.
- Brake. E. V. Myers. No. 1,410,111; Mar. 21.
- Brake. J. W. White. No. 1,417,435; May 23.
- Brake. G. B. Youngs. No. 1,424,059; July 25.
- Brake-actuating device. E. Zannetti. No. 1,427,047; Aug. 22.
- Brake and accelerator, Combined. R. P. May. No. 1,406,402; Feb. 14.
- Brake and friction member. M. Craighead. No. 1,405,103; Jan. 31.
- Brake and rear pilot, Combined. B. C. Zuhars and H. D. Clarke. No. 1,427,993; Sept. 5.
- Brake and transmission bands, Treating. W. K. Bolleau. No. 1,418,695; June 6.
- Brake appliance, Safety. A. A. Cline. No. 1,438,426; Dec. 12.
- Brake attachment, Stop-motion. F. Crawford, sr. No. 1,428,416; Sept. 5.
- Brake-band lining. A. L. Rennie. No. 1,424,852; Aug. 8.
- Brake bands, Means and method for applying brake linings to. G. L. Hunt. No. 1,411,358; Apr. 4.
- Brake bands of planetary transmissions. D. M. Sorenson. No. 1,414,311; Apr. 25.
- Brake beam. E. G. Busse. No. 1,421,064; June 27.
- Brake beam. S. A. Cronc. No. 1,432,234; Oct. 17.
- Brake beam. C. F. Huntoon. No. 1,422,863; July 18.
- Brake beam. R. H. Oliver. No. 1,418,391; June 6.
- Brake beam. C. H. Williams and E. G. Busse. No. 1,421,881; July 4.
- Brake-beam fulcrum. L. L. Whitney and W. C. Hedgcock. No. 1,434,866; Nov. 7.
- Brake-beam fulcrum and making the same. C. E. Bauer. No. 1,415,009; May 9.
- Brake-beam fulcrum and making the same. C. E. Bauer. No. 1,439,660; Dec. 19.
- Brake-beam fulcrums, Making. E. R. Viberg. No. 1,414,607; May 2.
- Brake-beam hanger. C. F. Retzer and C. Legard. No. 1,426,506; Aug. 22.
- Brake-beam release and support. C. H. Williams. No. 1,423,892; July 25.
- Brake-beam reversible, Fulcrum. W. C. Hedgcock. No. 1,413,730; Apr. 25.
- Brake beam, Reversible-strut. R. W. Burnett. No. 1,405,665; Feb. 7.
- Brake-beam safety arrangement. W. C. Hedgcock. No. 1,431,226; Oct. 10.
- Brake-beam safety support. A. E. Ostrander. No. 1,405,429; Feb. 7.
- Brake-beam support. C. F. Huntoon. No. 1,427,474; Aug. 29.
- Brake-beam support. C. H. Williams. No. 1,406,915; Feb. 14.
- Brake-beam trunnions, Forming. L. L. Whitney. No. 1,434,864; Nov. 7.
- Brake-beam trunnions, Forging. L. L. Whitney. No. 1,434,865; Nov. 7.
- Brake beams, Combined release and support for. G. N. Van Sweringen. No. 1,428,192; Sept. 5.
- Brake beams, Reversible fulcrum for trussed. P. L. Maher. No. 1,439,906; Dec. 26.
- Brake beams, Reversible strut for. E. G. Busse. No. 1,438,632; Dec. 12.
- Brake-controlling dashpot. T. W. Wheatley. No. 1,419,430; June 13.
- Brake device, Electropneumatic. T. H. Thomas. No. 1,439,039; Dec. 19.
- Brake device for vehicles, Safety. J. O. Hart. No. 1,433,132; Oct. 24.
- Brake drum. V. W. Pagé. No. 1,425,414; Aug. 8.
- Brake-drum wheel. A. J. Michelin. No. 1,439,571; Dec. 19.
- Brake equipment, Automotive. L. V. Lewis. No. 1,438,317; Dec. 12.
- Brake equipment, Double-control. C. C. Farmer. No. 1,411,688; Apr. 4.
- Brake for motor vehicles, Front-wheel. E. Frankland. No. 1,433,540; Oct. 31.
- Brake head. E. G. Busse and G. N. Van Sweringen. No. 1,430,355; Sept. 26.
- Brake head. C. F. Huntoon. No. 1,432,862; Oct. 24.
- Brake head and shoe. G. L. Scott. No. 1,433,240; Oct. 24.
- Brake-head arrangement, Adjustable. W. C. Hedgcock. No. 1,434,819; Nov. 7.
- Brake lever. F. C. Denham. No. 1,416,338; May 16.
- Brake lever, Automatically-locking. H. L. Clemons. No. 1,435,804; Nov. 14.
- Brake-lever connection. J. E. Redford. No. 1,417,203; May 23.
- Brake levers, Extension for. F. T. Hughes. Nos. 1,409,447-8; Mar. 14.
- Brake lining and making same. S. Stimpson. No. 1,414,378; May 2.
- Brake-locking device. R. C. Flagg. No. 1,412,397; Apr. 11.
- Brake means. W. K. Porter. No. 1,418,167; May 30.
- Brake mechanism. W. C. Baker. No. 1,423,901; July 25.

Alphabetical list of inventions—Continued.

- Brake mechanism. W. C. Baker. No. 1,426,450; Aug. 22.
 Brake mechanism. W. Barber. No. 1,430,349; Sept. 26.
 Brake mechanism. A. M. Bellony. No. 1,424,440; Aug. 1.
 Brake mechanism. H. Dotzer and S. G. Barnard. No. 1,422,423; July 11.
 Brake mechanism. H. A. Johnson. No. 1,433,825; Oct. 31.
 Brake mechanism. W. F. Rafferty. No. 1,427,326; Aug. 29.
 Brake mechanism. T. Zimmerman. No. 1,438,569; Dec. 12.
 Brake mechanism, Automatic. H. F. Gerhart. No. 1,417,241; May 23.
 Brake mechanism for motor vehicles. F. H. Farmer. No. 1,431,576; Oct. 10.
 Brake mechanism for winding drums. W. E. Hale. No. 1,433,371; Oct. 24.
 Brake mechanism, Hand. W. E. Coffin. No. 1,431,569; Oct. 10.
 Brake or clutch. W. R. Seigle. No. 1,409,247; Mar. 14.
 Brake or clutch lining. J. H. Saris. No. 1,416,979; May 23.
 Brake rigging, Clasp. W. S. Baird. No. 1,432,230; Oct. 17.
 Brake rigging, Third or fourth point support bracket for. E. G. Busse and A. W. Hawkins. No. 1,428,214; Sept. 5.
 Brake-rod adjuster. R. C. McArthur. No. 1,423,235; July 18.
 Brake-rod guide. J. Jansen, jr. No. 1,433,823; Oct. 31.
 Brake-rod jaw. F. Schaefer. No. 1,411,873; Apr. 4.
 Brake shoe. B. F. Miller. No. 1,420,274; June 20.
 Brake-shoe key. O. D. Watkins. No. 1,425,769; Nov. 14.
 Brake-shoe key lock. O. Heninger. No. 1,435,523; Nov. 14.
 Brake shoe of tramway and railway vehicles. T. C. Way. No. 1,434,464; Nov. 7.
 Brake shoes and hangers, Key for. S. Midura. No. 1,438,049; Dec. 5.
 Brake shoes, Automatic adjustment for. H. C. Berry and G. Applegate. No. 1,407,628; Feb. 21.
 Brake shoes, Filling composition for. G. L. McIntyre. No. 1,429,358; Sept. 19.
 Brake shoes, Reinforcement for. P. Freeman and I. F. Straker. No. 1,403,855; Jan. 17.
 Brake-supporting arrangement. L. L. Whitney. No. 1,434,863; Nov. 7.
 Brake system, Variable-load. E. A. Laughlin. No. 1,437,852; Dec. 5.
 Brake systems, Control switch for vacuum. C. C. Farmer. No. 1,439,467; Dec. 19.
 Brakes and clutches, Lining for. L. E. Booth. No. 1,406,720; Feb. 14.
 Brakes, Automatic slack adjuster for. A. R. K. Djurson. No. 1,439,730; Dec. 26.
 Brakes, Release and take-up device for. A. K. Pehrson. No. 1,422,125; July 11.
 Brakes, Releasing device for air. W. W. Wood. No. 1,402,333; Jan. 3.
 Braking apparatus. M. Loughead. No. 1,430,746; Oct. 3.
 Braking device. G. S. Nickum. No. 1,433,220; Oct. 24.
 Braking mechanism. A. H. Chandeson. No. 1,434,678; Nov. 7.
 Braking system. A. De Coninck. No. 1,412,104; Apr. 11.
 Braking system. C. C. Whittaker. No. 1,430,711; Oct. 3.
 Branding iron. C. F. Frazier. No. 1,428,280; Sept. 5.
 Branding machine, Nut-. A. N. Massey. No. 1,403,436; Jan. 10.
 Brass and similar alloys, Making. W. R. Webster. No. 1,426,623; Aug. 22.
 Brass, Manufacture of. P. Dutoit. No. 1,423,922; July 25.
 Brass scrap, Treating. O. C. Raiston. No. 1,402,015; Jan. 3.
 Brassière. E. Brown. No. 1,431,439; Oct. 10.
 Brassière. G. Cooper. No. 1,434,944; Nov. 7.
 Brassière. N. L. Fay. No. 1,420,248; June 20.
 Brassière. A. M. Godchaux. No. 1,426,727; Aug. 22.
 Brassière. W. Kops. No. 1,415,655; May 9.
 Brassière. W. Kops. No. 1,434,249; Oct. 31.
 Brassière. M. V. Pruzan. No. 1,408,139; Feb. 28.
 Brassière. I. Roth. No. 1,432,477; Oct. 17.
 Brassière. B. Yurka. No. 1,431,206; Oct. 10.
 Brassière. A. Zwiebelson. No. 1,414,321; Apr. 25.
 Brazing thin metal parts, Apparatus for. W. F. Hosford. No. 1,435,470; Nov. 14.
 Bread and carving board case, Combined. J. Woods. No. 1,403,883; Jan. 17.
 Bread, Apparatus for automatically righting loaves of. G. B. Eggert. No. 1,432,747; Oct. 24.
 Bread, Apparatus for handling. G. B. Eggert. No. 1,427,679; Aug. 29.
 Bread cutter. J. A. Scott. No. 1,405,720; Feb. 7.
 Bread cutter and cake cutter, One-lick. J. W. Wyatt. No. 1,424,389; Aug. 1.
 Bread-cutting machine. E. W. Knowlton. No. 1,418,874; June 6.
 Bread, Making. W. B. Johnson. No. 1,438,441; Dec. 12.
 Bread, Manufacture of leavened. C. Hoffman. H. D. Grigsby, and N. M. Creger. No. 1,431,525; Oct. 10.
 Bread-molding machine, Automatic. J. Kennedy. No. 1,420,486; June 20.
 Bread pan or oven tray. G. Mueller. No. 1,408,019; Feb. 28.
 Bread server. C. Lorber. No. 1,418,153; May 30.
 Bread-slicing machine. J. W. Ayala. No. 1,418,511; June 6.
 Bread-slicing machine. H. E. Bjorlin. No. 1,420,235; June 20.
 Break switch, Quick-. R. K. Mason. No. 1,420,381; June 20.
 Break switch, Quick-make and quick-. R. K. Mason. No. 1,420,382; June 20.
 Breakers, Controller for automatic vacuum. W. A. Howland. No. 1,422,444; July 11.
 Breakfast table, Built-in folding. W. D. Perry and W. P. Ballard. No. 1,438,055; Dec. 5.
 Breast former, confiner, supporter, and reducer. F. J. Stuart. No. 1,433,573; Oct. 31.
 Breast wheel. W. Dygoda. No. 1,411,686; Apr. 4.
 Breath deflector, Sanitary. D. Comings. No. 1,432,383; Oct. 17.
 Breath-exercising device. J. W. McPherson. No. 1,424,732; Aug. 1.
 Breech closure. D. F. Asbury. Nos. 1,410,524-5; Mar. 21.
 Breech-closure mechanism. J. T. Thompson. No. 1,425,809; Aug. 15.
 Breech mechanism. D. F. Asbury. No. 1,414,975; May 2.
 Breech mechanism. D. F. Asbury. No. 1,415,856; May 16.
 Breech mechanism. D. F. Asbury. No. 1,415,912; May 16.
 Brick. J. E. Evans. No. 1,422,949; July 18.
 Brick. J. E. Evans. No. 1,434,378; Nov. 7.
 Brick. A. F. Hamilton. No. 1,434,612; Nov. 7.
 Brick. R. F. Martin. No. 1,435,542; Nov. 14.
 Brick. J. Regan. No. 1,439,446; Dec. 19.
 Brick and manufacture, Refractory silica. O. Rebuffat. No. 1,420,284; June 20.
 Brick and the like, Interlocking. G. M. Bean. No. 1,420,810; June 27.
 Brick and tile kilns, Furnace for. H. R. Straight. No. 1,411,534; Apr. 4.
 Brick, Apparatus for transporting and unloading. W. J. Sullivan. No. 1,432,638; Oct. 17.
 Brick, Arch. J. H. Dempsey. No. 1,434,877; Nov. 7.
 Brick, Arch. C. E. Miller. No. 1,439,632; Dec. 19.
 Brick, Building. B. F. Weber. No. 1,425,302; Aug. 8.
 Brick, Building. J. P. Williams. No. 1,404,823; Jan. 31.
 Brick, Building. J. P. Williams. No. 1,409,632; Mar. 14.
 Brick-cleaning machine. S. M. Funk. No. 1,424,719; Aug. 1.
 Brick-hacking machine. W. H. Allen. No. 1,414,998; May 2.
 Brick hacking, Method and means for. J. B. Ladd. No. 1,418,003; May 30.
 Brick hacking, Method and means for. J. B. Ladd. No. 1,418,658; June 6.
 Brick, Interlocking. C. H. Leicester. No. 1,431,530; Oct. 10.
 Brick, Interlocking. J. C. Martin, jr. No. 1,431,318; Oct. 10.
 Bricklayers and masons, Mortar rake for. C. W. Henry, jr. No. 1,436,254; Nov. 21.
 Bricklaying. C. E. Avon. No. 1,438,679; Dec. 12.
 Brick machine. C. L. Norton. No. 1,434,662; Nov. 7.
 Brick machine, Slag-. C. T. Bray. No. 1,420,018; June 20.
 Brickmaking. G. A. Warner. No. 1,420,796; June 27.
 Brickmaking machine. E. Quillet. No. 1,433,300; Oct. 24.
 Brickmaking machine and process. W. L. Wakefield. No. 1,408,550; Mar. 7.
 Brick, Means for forming side-cut. H. Winter. No. 1,436,745; Nov. 28.
 Brick mold. J. C. Dildine. No. 1,437,135; Nov. 28.
 Brick mold. R. Roederer. No. 1,440,105; Dec. 26.
 Brick mold, Multiple. F. J. Kinzinger. No. 1,406,460; Feb. 14.
 Brick pallet. L. G. Woods. No. 1,416,432; May 16.
 Brick pallet. C. H. Young. No. 1,414,061; Apr. 25.
 Brick, Refractory. G. A. Balz. No. 1,410,729; Mar. 28.
 Brick-scoring mechanism. W. F. Richey. No. 1,418,880; June 6.
 Brick shapes, Machine for molding. C. L. Norton. No. 1,426,761; Aug. 22.
 Brick, Structural. I. V. Van Duzer. No. 1,436,551; Nov. 21.
 Brick, Twin-wall. T. W. Peirce and F. T. Owens and E. M. Taylor. No. 1,410,953; Mar. 28.
 Brick veneer. C. G. Robinson. No. 1,431,125; Oct. 3.
 Bricks and their products, Making. G. Bernard y Hernandez. No. 1,430,991; Oct. 3.
 Bricks, Apparatus for burning. W. W. Dickinson, Jr. Nos. 1,403,300-1; Jan. 10.
 Bricks, Apparatus for backing. W. L. Hanley, Jr. No. 1,413,402; Apr. 18.
 Bricks closed on all sides, Apparatus for the manufacture of hollow. A. Kahr. No. 1,411,170; Mar. 28.
 Bricks, Making. W. A. McGool. No. 1,427,831; Sept. 5.
 Bricks, Manufacture of. C. L. North. No. 1,440,234; Dec. 26.
 Bricks, Means for making. G. A. Glenn. No. 1,435,463; Nov. 14.
 Bricks, Process and machine for making. W. H. Haws. No. 1,425,010; Aug. 8.
 Bridge, Bascule. H. A. F. Abt. Nos. 1,412,327-8; Apr. 11.
 Bridge, Bascule. T. E. Brown, Jr. No. 1,406,259; Feb. 14.
 Bridge, Lift. P. Joosting. No. 1,422,717; July 11.
 Bridge-scoring device. W. M. Paxton. No. 1,435,620; Nov. 14.
 Bridge shoe. R. Z. Drake. No. 1,425,320; Aug. 8.

- Bridge span, Reinforced. R. Modjeski. No. 1,417,936; May 30.
- Bridges, Brake and anchor operating and releasing means for traveling. M. B. Benson. No. 1,437,710; Dec. 5.
- Bridges, etc., Planking for. O. E. Bray. No. 1,415,304; May 9.
- Bridges of timekeeping mechanism. Means for securing. H. Colomb. No. 1,434,327; Oct. 31.
- Bridle. E. J. Barkdoll. No. 1,405,287; Feb. 7.
- Brief case. B. Charsky. No. 1,424,152; Aug. 1.
- Brief case. M. Klombers. No. 1,425,491; Aug. 8.
- Brief case. M. H. and L. Stein. No. 1,437,565; Dec. 5.
- Brines, Concentrating. H. W. Morse. No. 1,435,727; Nov. 14.
- Briquet machine. G. Komarek. No. 1,405,788; Feb. 7.
- Briquettes, Composition for making. H. John. No. 1,407,279; Feb. 21.
- Briquetting machine. W. D. Keller. No. 1,404,441; Jan. 24.
- Briquetting machine, Straw-. J. A. Cowan. No. 1,403,294; Jan. 10.
- Briquetting or drying press. H. Horst. No. 1,433,619; Oct. 31.
- Bristles, Treating. N. Singer. No. 1,412,755; Apr. 11.
- Broach. J. Oakley. No. 1,423,814; July 25.
- Broach. J. Oakley. No. 1,432,410; Oct. 17.
- Broaching and surface finishing of holes or the like. J. McKechnie and T. Fender. No. 1,425,122; Aug. 8.
- Broaching fixture. H. F. Wolnick. No. 1,432,226; Oct. 17.
- Broaching machine. H. E. Blanchard. (Reissue.) No. 1,546,4; Oct. 10.
- Broaching machine. M. E. Inforati, Jr. No. 1,406,022; Feb. 7.
- Broaching machine. L. Myers. No. 1,437,856; Dec. 5.
- Broaching machine, Manually-operated. F. J. Lapointe. No. 1,434,711; Nov. 7.
- Broaching machines, Attachment for. F. J. Lapointe. No. 1,421,014; June 27.
- Broaching machines, Work-supporting device for. O. W. Bonnaff. No. 1,431,624; Oct. 10.
- Broiler, Adjustable. M. Schey. No. 1,409,203; Mar. 14.
- Broiler and griddle, Combination. L. A. Vernon. No. 1,437,739; Dec. 5.
- Broiler, Hotel. H. C. Maul. No. 1,425,501; Aug. 8.
- Broiling and toasting food, Kitchen utensil for. A. Condy. No. 1,422,835; July 18.
- Bromides, Production of alkali-metal. A. Weidel. No. 1,437,740; Dec. 5.
- Bromine, Method of and apparatus for extracting. H. H. Dow. No. 1,406,624; Feb. 14.
- Bromodiethylacetylcarboxyalkyl-urea compounds, Manufacture and production of. J. Callsen. No. 1,424,236; Aug. 1.
- Bronze worm-gear mounting. J. W. White, Jr. No. 1,422,512; July 11.
- Brooch pins, Combined safety catch and point protector for. W. Williams. No. 1,406,708; Feb. 14.
- Brooches and other articles, Fastening device for. J. Pejchar. No. 1,436,675; Nov. 28.
- Brood chambers and shallow extracting supers, Comb for. H. L. Cress, jr. No. 1,426,551; Aug. 22.
- Brooder. C. D. Bowker. No. 1,438,693; Dec. 12.
- Brooder. J. V. and C. L. Stauffer. No. 1,409,604; Mar. 14.
- Brooder. H. J. Welch. No. 1,410,632; Mar. 28.
- Brooder and heater. G. C. Atwood. No. 1,411,075; Mar. 28.
- Brooder, Automatic electric. W. J. Anderson. No. 1,402,335; Jan. 8.
- Brooder construction. T. W. Hunter. No. 1,426,874; Aug. 22.
- Brooders and hoverers, Burner heater for. J. D. Foster. No. 1,434,537; Nov. 7.
- Brooders, Heater for. H. M. Sheer. No. 1,421,315; June 27.
- Brooders, incubators, and the like, Heating system for. H. M. Sheer. No. 1,427,703; Aug. 29.
- Brood frame. K. Hawkins. No. 1,414,016; Apr. 25.
- Brood-frame holder. G. C. Voss. No. 1,432,431; Oct. 17.
- Broom. D. J. Benoit. No. 1,438,741; Dec. 12.
- Broom. O. K. Boyett. No. 1,412,653; Apr. 11.
- Broom. W. Cuthbert. No. 1,410,284; Mar. 21.
- Broom. J. E. Eldridge. No. 1,424,241; Aug. 1.
- Broom. G. W. Manning. No. 1,409,560; Mar. 14.
- Broom. E. A. Wheeler. No. 1,435,358; Nov. 14.
- Broom and brush. H. B. Waters. No. 1,425,560; Aug. 15.
- Broom and brush handle. G. M. Watters and W. A. Brown. No. 1,416,533; May 16.
- Broom and brush heads, Boring and stuffing machine for. G. Henning. No. 1,426,382; Aug. 22.
- Broom brace. A. L. Shipman. No. 1,429,171; Sept. 12.
- Broom-bundle-making machine. H. D. Neff. No. 1,421,812; July 4.
- Broom, Combination. D. W. Frank. No. 1,424,291; Aug. 1.
- Broom-corn breaker and tabler. P. K. Jenkins. No. 1,419,262; June 13.
- Broom guard. E. R. Crumner. No. 1,404,277; Jan. 24.
- Broom holder. J. Geese. No. 1,407,025; Feb. 21.
- Broom holder. E. Hartman, sr. No. 1,435,842; Nov. 14.
- Broom holder. J. L. Oefinger. No. 1,423,678; July 25.
- Broom holder. C. C. Shelton. No. 1,414,049; Apr. 25.
- Broom holder. F. H. Steinheiser. No. 1,423,043; July 18.
- Broom, Lawn. W. P. Gaughan. No. 1,429,579; Sept. 19.
- Broom or brush unit. H. D. Neff. No. 1,411,221; Mar. 28.
- Broom press. W. P. Orr. No. 1,418,018; May 30.
- Broom trimmer. G. W. Duvall and N. H. Beebe. No. 1,418,138; May 30.
- Brush. E. E. Allen. No. 1,413,700; Apr. 25.
- Brush. J. E. Chleso. No. 1,422,739; July 11.
- Brush. R. E. Cleveland. No. 1,437,794; Dec. 5.
- Brush. R. Condon. No. 1,413,900; Apr. 25.
- Brush. H. J. Kirkpatrick. No. 1,415,652; May 9.
- Brush. E. C. Lyon. No. 1,410,203; Mar. 21.
- Brush. R. C. McGarey. No. 1,420,563; June 20.
- Brush. M. H. Moore. No. 1,409,229; Mar. 14.
- Brush. J. Morrison, Jr. No. 1,408,763; Mar. 7.
- Brush. W. Morrison. No. 1,438,711; Dec. 12.
- Brush. H. A. Poppenhusen and R. T. R. Hastings. No. 1,438,720; Dec. 12.
- Brush. J. J. Reinholz. No. 1,434,844; Nov. 7.
- Brush. W. G. Roepeck. No. 1,407,674; Feb. 21.
- Brush, Air. W. F. Rothermund. No. 1,429,537; Sept. 19.
- Brush and comb, Pocket. F. L. Taft. No. 1,413,810; Apr. 25.
- Brush and making same. G. Rasmesen, Jr. No. 1,405,938; Feb. 7.
- Brush, Bath. S. C. Pearson. No. 1,418,019; May 30.
- Brush casing and handle. G. E. W. Miller. No. 1,432,717; Oct. 17.
- Brush clamp. W. B. Eagan. No. 1,428,281; Sept. 5.
- Brush cleaner. F. Weyhrauch. No. 1,425,923; Aug. 15.
- Brush, Combination face. A. E. Rope. No. 1,422,787; July 11.
- Brush construction. G. A. Bauer. No. 1,407,913; Feb. 28.
- Brush container, Varnish-. J. W. Ward. No. 1,426,622; Aug. 22.
- Brush, Floor. E. F. Fletcher. No. 1,438,371; Dec. 12.
- Brush for talking machines. T. S. Grow. No. 1,423,523; July 25.
- Brush, Fountain. J. Auld. No. 1,413,311; Apr. 18.
- Brush, Fountain. A. B. Briggs. No. 1,413,827; Apr. 25.
- Brush, Fountain scrubbing. J. Horvath. No. 1,424,478; Aug. 1.
- Brush, Fountain shaving. V. J. McNamara. No. 1,417,082; May 23.
- Brush, Fountain shaving. S. B. Pearlmutter. No. 1,412,958; Apr. 18.
- Brush handle. E. G. Foss. No. 1,406,841; Feb. 14.
- Brush handle. J. A. White. No. 1,416,081; May 16.
- Brush, Helical. C. E. Frost. No. 1,439,159; Dec. 19.
- Brush holder. J. L. Chantemerle. No. 1,435,209; Nov. 14.
- Brush holder. J. D. Karle. No. 1,405,596; Feb. 7.
- Brush holder. J. E. Trostle. No. 1,424,326; Aug. 1.
- Brushing and polishing machine. S. Radimak. No. 1,417,768; May 30.
- Brush machine. W. C. Read. No. 1,433,151; Oct. 24.
- Brush-making machine. W. T. Sherman. No. 1,439,766; Dec. 26.
- Brush-making machine. C. Yaeger. No. 1,424,545; Aug. 1.
- Brush, Metal-face-plate. M. P. Benson and M. M. Wiener. No. 1,432,099; Oct. 17.
- Brush mounting. C. F. Kettering and W. A. Chryst. No. 1,405,519; Feb. 7.
- Brush mounting. J. D. Nies. No. 1,428,342; Sept. 5.
- Brush nozzle, Air-. B. E. Holton. No. 1,430,506; Sept. 26.
- Brush or mop holder. M. Veck. No. 1,407,341; Feb. 21.
- Brush or scraper for removing rust, paint, etc. G. E. Sandblom. No. 1,414,305; Apr. 25.
- Brush pad. U. Abrahams. No. 1,434,183; Oct. 31.
- Brush, Phonograph record. E. J. Bakula. No. 1,422,166; July 11.
- Brush protector. F. A. Seymour. No. 1,437,822; Dec. 5.
- Brush, Rotary. F. Radcliffe. No. 1,431,329; Oct. 10.
- Brush, Rotary. J. Adams. No. 1,402,990; Jan. 10.
- Brush, Rotary. S. Huff. No. 1,414,781; May 2.
- Brush, Rotary. L. E. Ott. No. 1,410,074; Mar. 21.
- Brush, Rotary. W. E. Sherbondy. No. 1,425,906; Aug. 15.
- Brush, Rotary fountain. F. G. Jones. No. 1,403,605; Jan. 17.
- Brush, Rotatable. G. B. Allen. No. 1,425,435; Aug. 8.
- Brush, Shaving. N. Appel. No. 1,413,953; Apr. 25.
- Brush, Shaving. C. E. A. Gronbech. No. 1,409,168; Mar. 14.
- Brush, Shaving. T. McMonagle. No. 1,436,624; Nov. 21.
- Brush, Shaving. C. G. Myers. No. 1,419,887; June 13.
- Brush, Shaving. J. C. Page. No. 1,406,483; Feb. 14.
- Brush, Shaving. R. Voltolini. No. 1,409,046; Mar. 7.
- Brush, Shoe. S. G. Wilson. No. 1,431,554; Oct. 10.
- Brush, Timer. A. W. Caps. No. 1,438,425; Dec. 12.
- Brush, Tooth-. H. E. Rice, Jr. No. 1,404,141; Jan. 17.
- Brush, Waxing or polishing. S. M. Carlstedt. No. 1,424,879; Aug. 8.
- Brush, Wire. R. Kern. No. 1,408,951; Mar. 7.
- Brushes, Brush holder for draining. F. G. Dieke. No. 1,438,699; Dec. 12.
- Brushes, Buffing cover for rotary. J. H. Caplan. No. 1,413,574; Apr. 25.
- Brushes, Cable connection for. V. C. Hamister. No. 1,412,079; Apr. 11.
- Brushes, Device for attaching conductors to. W. Siebenmorgen. Nos. 1,433,686-7; Oct. 31.
- Brushes, Making. W. P. and A. Braun. No. 1,432,588; Oct. 17.

Alphabetical list of inventions—Continued.

- Brushes, Making. A. W. Lamp. No. 1,415,657; May 9.
Brushes, Manufacture of. A. Albright, Jr. No. 1,413,211; Apr. 18.
Brushes, Motor for automobile washing. T. P. Shoemaker. No. 1,433,160; Oct. 24.
Brushes or brooms, Removable-handle mechanism for. W. and E. Prestwich. No. 1,423,151; July 18.
Brushes, Scraper attachment for paint. O. J. Hope. No. 1,421,478; July 4.
Brushes, Scraper attachment for various. C. H. and C. W. Forsberg. No. 1,430,441; Sept. 26.
Brushes, Scraper for door. E. Pederson and W. Fredriksen. No. 1,402,485; Jan. 3.
Bubble blower. L. L. Voelchert. No. 1,418,755; June 6.
Bubbler fountain. C. C. Chadwick. No. 1,435,515; Nov. 14.
Bucket. E. Griffiths. No. 1,425,195; Aug. 8.
Bucket. W. L. Thompson. No. 1,423,047; July 18.
Bucket, Agitating and dumping. G. Johnson. No. 1,424,102; July 25.
Bucket and hoisting apparatus. F. A. Johnson. No. 1,424,910; Aug. 8.
Bucket attachment. H. H. Justice and H. J. Bennett. No. 1,414,285; Apr. 25.
Bucket, Clamshell. D. Ferry. No. 1,404,515; Jan. 24.
Bucket cleaner. J. C. French. No. 1,434,601; Nov. 7.
Bucket, Collapsible. I. Hammond. No. 1,436,499; Nov. 21.
Bucket, Collapsible. C. B. Chadwick. No. 1,439,180; Dec. 19.
Bucket conveyer, Portable. A. L. Shaw. No. 1,432,917; Oct. 24.
Bucket-door-opening mechanism. F. E. Arndt. No. 1,415,291; May 9.
Bucket, Dredge. G. R. Hanks. No. 1,421,345; June 27.
Bucket, Dumping. W. H. Inley and A. C. Rasmussen. No. 1,425,383; Aug. 8.
Bucket elevator. W. W. Hudson. No. 1,414,810; May 2.
Bucket, Excavating. S. Dyke. No. 1,437,963; Dec. 5.
Bucket for handling loose materials. L. D. Moore. No. 1,422,601; July 11.
Bucket, Grab. H. W. Botten. No. 1,437,392; Dec. 5.
Bucket, Grab. J. P. Dowd. No. 1,415,812; May 9.
Bucket, Grab. E. Prefontaine. No. 1,434,065; Oct. 31.
Bucket hoider, Paint-. C. J. and U. J. Mohr. No. 1,423,726; July 25.
Bucket-loading hook. J. W. Larson. No. 1,418,004; May 30.
Bucket, Minnow. J. A. Van Pelt. No. 1,436,835; Nov. 28.
Bucket, Self-adjusting dump. G. W. Slaughter. No. 1,425,063; Aug. 8.
Bucket, Self-opening. C. Nolan. Nos. 1,411,453-4; Apr. 4.
Bucket, Well. J. M. Holliday. No. 1,423,424; July 18.
Bucket, Well. S. L. Reese. No. 1,412,422; Apr. 11.
Buckets, Chain attachment for elevator. H. B. Walker. No. 1,422,151; July 11.
Buckets, Lip for dredge. L. G. Attenborough and J. F. Newsom. No. 1,430,782; Oct. 3.
Buckets or the like, Hook or retaining device for fire. G. F. Rutzler. No. 1,431,431; Oct. 10.
Buckets, Pin stop for dredge. M. L. Summers. No. 1,423,367; July 18.
Buckets, Sectional lip for dredge. R. W. Seyms. No. 1,421,346; June 27.
Buckle. L. E. Baer. No. 1,437,333; Nov. 28.
Buckle. C. E. Bradshaw. No. 1,406,971; Feb. 21.
Buckle. C. E. Bradshaw. No. 1,428,211; Sept. 5.
Buckle. J. F. Carpmill. No. 1,438,898; Dec. 12.
Buckle. J. F. Carpmill and G. W. Troop. No. 1,415,017; May 9.
Buckle. J. F. Carpmill and G. W. Troop. No. 1,438,897; Dec. 12.
Buckle. E. E. Edstrom. No. 1,412,515; Apr. 11.
Buckle. J. G. Fisher. No. 1,403,111; Jan. 10.
Buckle. D. A. Hart. No. 1,416,290; May 16.
Buckle. C. E. Heaton. No. 1,434,208; Oct. 31.
Buckle. J. Heberling. No. 1,429,139; Sept. 12.
Buckle. E. N. Humphrey. No. 1,438,958; Dec. 19.
Buckle. H. A. Keller. No. 1,436,880; Nov. 28.
Buckle. D. Lindsay, jr. No. 1,430,663; Oct. 3.
Buckle. C. E. Peterson. No. 1,426,905; Aug. 22.
Buckle. L. Sayko. No. 1,429,641; Sept. 19.
Buckle. J. P. Smith. No. 1,430,770; Feb. 14.
Buckle. W. and M. G. Wiener. No. 1,405,471; Feb. 7.
Buckle. A. J. Wood. No. 1,406,517; Feb. 14.
Buckle and band hook. J. B. Robinson. No. 1,416,417; May 16.
Buckle, Bale-tie. J. A. Todd. No. 1,404,330; Jan. 24.
Buckle, Belt. I. Benjamins. No. 1,407,185; Feb. 21.
Buckle, Belt. J. O. Chabot. No. 1,440,339; Dec. 26.
Buckle, Belt. A. H. Eddy. No. 1,406,449; Feb. 14.
Buckle, Belt. T. B. Hafertep. No. 1,427,591; Aug. 29.
Buckle, Belt. W. A. Hurst. No. 1,423,218; July 18.
Buckle, Belt. A. Mae. No. 1,424,417; Aug. 1.
Buckle, Belt. A. H. Metcalf. No. 1,429,155; Sept. 12.
Buckle, Belt. E. S. Mix. No. 1,427,162; Aug. 29.
Buckle, Belt. C. S. Oda. No. 1,417,855; May 30.
Buckle, Belt. E. E. Peake. No. 1,408,028; Feb. 28.
Buckle, Belt. G. E. Prentice. No. 1,433,652; Oct. 31.
Buckle, Belt. S. M. Riker. Nos. 1,406,281-2; Feb. 14.
Buckle, Belt. S. M. Riker. Nos. 1,439,528-9; Dec. 19.
Buckle, Belt. L. W. Shields. No. 1,409,596; Mar. 14.
Buckle, Belt. L. W. Shields. No. 1,416,892; May 23.
Buckle, Belt. G. Wade. No. 1,426,794; Aug. 22.
Buckle, Belt or other. P. A. Horras. No. 1,414,697; May 2.
Buckle, Detachable shoe. W. White. No. 1,425,155; Aug. 8.
Buckle, Four-way strap. H. G. Sturges. No. 1,419,592; June 13.
Buckle, Garment. C. S. Comstock, Sr. No. 1,407,733; Feb. 28.
Buckle, plate, and the like, Initialed. A. Pollak. No. 1,430,682; Oct. 3.
Buckle, plate, and the like, Initialed. A. Pollak. No. 1,438,550; Dec. 12.
Buckle, Rustless. M. Hawie. No. 1,426,634; Aug. 22.
Buckle, Slide. R. J. Hodge. No. 1,431,661; Oct. 10.
Buckle, Slide. A. J. Lewis. No. 1,425,396; Aug. 8.
Buckle, Sliding-tongue. A. H. Kerngood. No. 1,437,250; Nov. 28.
Buckle, Strap and belt tightening. W. W. Robinson. No. 1,428,560; Sept. 12.
Buckle, Suspender. A. H. Kerngood. No. 1,425,778; Aug. 15.
Buck rake, Motor-driven. E. W. Reed. No. 1,424,943; Aug. 8.
Buckstay. J. F. Lewis and J. W. Kagarisc. No. 1,426,748; Aug. 22.
Buckstay and fabricating same. L. C. Reis. No. 1,402,444; Jan. 3.
Budding implement. V. Calandra. No. 1,423,491; July 18.
Buffer and other springs constructed of india rubber. C. W. C. Hine. No. 1,430,230; Sept. 26.
Buffer attach. G. A. Lyon. No. 1,420,854; June 27.
Buffer-attaching device. G. A. Lyon. No. 1,436,993; Nov. 28.
Buffer-attaching device. G. A. Lyon. No. 1,437,600; Dec. 5.
Buffer-attaching device. Rear. G. A. Lyon. No. 1,436,994; Nov. 28.
Buffer, Duplex. G. A. Lyon. No. 1,410,937; Mar. 28.
Buffer, Resilient. G. A. Lyon. No. 1,423,573; July 25.
Buffer, Resilient. G. A. Lyon. No. 1,436,996; Nov. 28.
Buffer, Resilient front. G. A. Lyon. No. 1,423,570; July 25.
Buffers, Construction of spring. F. Niblock; No. 1,411,977; Apr. 4.
Buffing machine. H. G. Ballou. No. 1,418,863; June 6.
Buffing or polishing wheel. A. Levett. No. 1,404,620; Jan. 24.
Buffing wheel. P. E. Gooley. No. 1,431,157; Oct. 10.
Buffing wheel. D. F. McGovern. No. 1,425,786; Aug. 15.
Buffing wheel. H. M. Smith. No. 1,413,942; Apr. 25.
Bug exterminator. W. A. Johnson. No. 1,415,358; May 9.
Bug exterminator, Potato. W. A. Johnson. No. 1,415,359; May 9.
Building. R. L. Day. No. 1,420,973; June 27.
Building. H. P. Sturges. No. 1,432,132; Oct. 17.
Building and means therefor. W. H. Frazer. No. 1,433,998; Oct. 31.
Building apparatus, Ditching and levee-. O. W. Smith. No. 1,413,803; Apr. 25.
Building block. S. Andersen. No. 1,413,562; Apr. 25.
Building block. M. L. Binkley. No. 1,430,431; Sept. 26.
Building block. R. B. Dula. No. 1,411,005; Mar. 28.
Building block. H. L. Emery. No. 1,422,258; July 11.
Building block. A. G. Hatch. No. 1,408,733; Mar. 7.
Building block. M. M. Mack. No. 1,403,177; Jan. 10.
Building block. W. McDaniel. No. 1,435,865; Nov. 14.
Building block. F. B. Myers. No. 1,410,588; Mar. 28.
Building block. F. Patee. No. 1,418,160; May 30.
Building block. J. C. Poth. No. 1,438,610; Dec. 12.
Building block. J. C. Poth and H. R. Erdman. No. 1,412,573; Apr. 11.
Building block. E. Preston. No. 1,418,168; May 30.
Building block. A. H. Roeth. No. 1,419,079; June 6.
Building block. W. Tackenberg. No. 1,422,146; July 11.
Building block. L. A. Warren. No. 1,402,327; Jan. 3.
Building block. J. W. Watkinson. No. 1,414,240; Apr. 25.
Building block. J. A. Wickson. No. 1,416,919; May 23.
Building block. J. P. Williams. No. 1,405,644; Feb. 7.
Building block and wall construction. W. C. Bartelt. No. 1,422,814; July 18.
Building block, Hollow. P. H. Bevier. No. 1,419,713; June 13.
Building block, Hollow. D. H. Fessenden. No. 1,419,623; June 13.
Building block, Hollow. R. L. Rutzler. No. 1,437,077; Nov. 28.
Building block, Hollow tile. A. F. Jones. No. 1,432,068; Oct. 17.
Building-block mold. C. E. King. No. 1,409,300; Mar. 14.
Building block, Reinforced composite. U. E. Tuomi. No. 1,428,127; Sept. 5.
Building blocks. E. C. Sixta. No. 1,437,867; Dec. 5.
Building blocks, Apparatus for and method of making. A. G. Hatch. No. 1,437,054; Nov. 28.
Building blocks, Composition for. R. C. Sheaffer. No. 1,428,811; Sept. 12.
Building blocks for school purposes. M. H. Nichols. No. 1,402,438; Jan. 3.
Building blocks, Making. T. S. Webb, Jr. No. 1,403,363; Jan. 10.
Building blocks, Means for making. H. E. Clouser and E. R. Thornton. No. 1,410,166; Mar. 21.
Building blocks, Rolling apparatus for making. A. G. Hatch. No. 1,406,856; Feb. 14.
Building board. H. Scholfield. No. 1,434,915; Nov. 7.

- Building clamp. H. A. Arbaugh and R. E. Keene. No. 1,439,499; Dec. 19.
- Building column. J. Lally. No. 1,418,581; June 6.
- Building construction. C. J. Aschauer. No. 1,421,143; June 27.
- Building construction. C. H. Besnard. No. 1,419,126; June 13.
- Building construction. C. H. Blackall. No. 1,430,931; Oct. 3.
- Building construction. C. Burnett. No. 1,407,250; Feb. 21.
- Building construction. D. H. Burnham. No. 1,404,926; Jan. 31.
- Building construction. G. F. Dampney. No. 1,434,809; Nov. 7.
- Building construction. C. F. Dardano. No. 1,412,926; Apr. 18.
- Building construction. H. C. Frost. No. 1,409,623; Mar. 14.
- Building construction. C. M. Goodrich. No. 1,418,297; June 6.
- Building construction. J. Grasso. No. 1,408,287; Feb. 28.
- Building construction. F. R. Hahn. No. 1,416,709; May 23.
- Building construction. A. G. Hatch. No. 1,408,734; Mar. 7.
- Building construction. T. H. Kane. No. 1,433,826; Oct. 31.
- Building construction. H. and P. J. Klein. No. 1,429,355; Sept. 19.
- Building construction. E. A. Laughlin. No. 1,423,949; July 25.
- Building construction. S. S. Levy. No. 1,424,172; Aug. 1.
- Building construction. F. Lichtenberg and M. M. McCarthy. No. 1,410,932; Mar. 28.
- Building construction. F. Lichtenberg and M. M. McCarthy. (Reissue.) No. 15,440; Aug. 29.
- Building construction. R. N. and W. E. Lyons. No. 1,414,293; Apr. 25.
- Building construction. R. Maze. No. 1,437,114; Nov. 28.
- Building construction. F. A. Palen. No. 1,421,299; June 27.
- Building construction. A. J. Rowley. No. 1,436,779; Nov. 28.
- Building construction. J. T. Simpson. No. 1,423,161; July 18.
- Building construction. H. E. Stitt. No. 1,433,490; Oct. 24.
- Building construction. H. C. Trost. No. 1,419,995; June 20.
- Building construction. R. Unfug. No. 1,411,138; Mar. 28.
- Building construction. F. Watt. No. 1,423,375; July 18.
- Building construction. A. J. Vernet. No. 1,439,494; Dec. 19.
- Building construction. G. L. Williams. No. 1,421,835; June 27.
- Building-construction clip. M. H. Jester. No. 1,434,352; Oct. 31.
- Building construction. Knockdown. I. H. McFarland. No. 1,432,349; Oct. 17.
- Building construction. Metal. T. H. Kane. No. 1,421,950; July 4.
- Building construction. Plastic. C. B. Seidler. No. 1,409,246; Mar. 14.
- Building. Convertible. F. J. Keppler. No. 1,437,148; Nov. 28.
- Building element or block. E. V. Roux. No. 1,420,220; June 20.
- Building form. L. W. Tilton. No. 1,438,069; Dec. 5.
- Building framework. B. W. Levitan. No. 1,419,868; June 13.
- Building machine. Mica. L. T. Frederick. No. 1,411,690; Apr. 4.
- Building material. J. A. Bourdariat. No. 1,411,906; Apr. 4.
- Building material. W. Wawrzyniak. No. 1,407,608; Feb. 21.
- Building material. C. C. Wilson. No. 1,413,819; Apr. 25.
- Building materials, in particular cement, Producing a cold glaze for. K. Friedrich. No. 1,402,412; Jan. 3.
- Building partition. C. E. and A. G. Dawson. No. 1,420,473; June 20.
- Building, Portable. W. R. Brown. No. 1,433,777; Oct. 31.
- Building, Portable. P. Fasson. No. 1,407,462; Feb. 21.
- Building, Portable. J. Flack and P. Schepp. No. 1,438,640; Dec. 12.
- Building purposes, Block used for. A. Ferguson. No. 1,405,574; Feb. 7.
- Building set. J. Vandel. No. 1,434,861; Nov. 7.
- Building. Sheet-metal. F. J. G. Maisenholder. No. 1,427,907; Aug. 22.
- Building. Storage. G. F. Hurt. (Reissue.) No. 15,505; Dec. 12.
- Building structure. E. Heath. No. 1,416,821; May 23.
- Building structure. J. H. Miller. No. 1,437,946; Dec. 5.
- Building structures. J. J. Kennedy. No. 1,409,729; Mar. 14.
- Building structures, Weather covering for. J. O'Neil. No. 1,438,780; Dec. 12.
- Building tile. H. R. Straight. No. 1,414,444; May 2.
- Building tile. A. O. Thomas. No. 1,413,241; Apr. 18.
- Building trimmings. Ornamental. F. L. Conant. No. 1,426,277; Aug. 15.
- Building. Wooden. J. G. Stadelman. No. 1,423,468; July 18.
- Buildings and other structures, Staging for. S. S. Colt. No. 1,423,308; July 18.
- Buildings and parts of the same which are heat and cold insulating. Construction of. H. Pohlmann and P. Frank. No. 1,436,193; Nov. 21.
- Buildings from one site to another, Moving. O. Alexander. No. 1,418,510; June 6.
- Buildings, Heating and cooling of. W. N. and C. I. Haden. No. 1,406,852; Feb. 14.
- Buildings, Protective covering material for. I. B. Whetstone. No. 1,440,358; Dec. 26.
- Buildings, System of integrally-cast reinforced-concrete roof construction for. E. D. Martin. No. 1,411,446; Apr. 4.
- Bulbs, Current-supply circuit for vacuum. S. P. Shackleton. No. 1,404,799; Jan. 31.
- Bulbs, Device for use in coloring. H. L. Greenbaum. No. 1,422,964; July 18.
- Bulbs, Method of and apparatus for finishing. W. R. Burrows. No. 1,404,268; Jan. 24.
- Bulkhead and the like. J. Childs and W. Evans. No. 1,420,305; June 20.
- Bulkhead doors and sluice gates, Means for automatically operating. D. J. Smith and C. Towl. No. 1,416,070; May 16.
- Bullet, Armor-piercing and tracer. W. L. Clay. No. 1,432,669; Oct. 17.
- Bullet-greasing device. R. I. Stokes. No. 1,413,299; Apr. 18.
- Bulletin board. J. H. Roberts. No. 1,432,303; Oct. 17.
- Bull ring. D. L. Schuster. No. 1,413,434; Apr. 18.
- Bumper. W. A. Bockius. No. 1,417,712; May 30.
- Bumper. P. E. Demmer. No. 1,422,546; July 11.
- Bumper. H. B. Grant. No. 1,433,201; Oct. 24.
- Bumper. I. E. McCracken. No. 1,413,283; Apr. 18.
- Bumper. I. Rosenberg. No. 1,414,211; Apr. 25.
- Bumper. K. O. Schauman. No. 1,436,975; Nov. 28.
- Bumper. L. M. Singer. No. 1,419,318; June 13.
- Bumper. L. F. Stafford. No. 1,436,118; Nov. 21.
- Bumper. A. L. Stanford. No. 1,436,364; Nov. 21.
- Bumper. J. J. Stock. No. 1,419,775; June 18.
- Bumper and carrying rack, Adjustable detachable. L. M. Moore. No. 1,412,192; Apr. 11.
- Bumper and fender, Combination. C. Kirch. No. 1,438,533; Dec. 12.
- Bumper-attaching bracket. W. J. Grotenhuis. No. 1,413,222; Apr. 18.
- Bumper attachment means. R. T. Newton. No. 1,430,464; Sept. 26.
- Bumper bar. L. P. Halladay. No. 1,408,193; Feb. 28.
- Bumper bar. W. V. Isgrig. No. 1,424,359; Aug. 1.
- Bumper-bar fender. W. W. Edwards. No. 1,423,604; July 25.
- Bumper-bar support. L. P. Halladay. No. 1,431,653; Oct. 10.
- Bumper bracket. W. H. Bovard, E. L. Barker, and C. S. Jenkins. No. 1,407,835; Feb. 28.
- Bumper bracket. W. J. Grotenhuis. No. 1,424,400; Aug. 1.
- Bumper bracket. W. P. Limacher. No. 1,407,350; Feb. 21.
- Bumper bracket. R. T. Newton. No. 1,422,777; July 11.
- Bumper, Resilient. G. W. J. Crabb. No. 1,426,964; Aug. 22.
- Bumper support. C. H. Hathaway and W. A. Starck. No. 1,426,565; Aug. 22.
- Bumper-supporting bracket. H. C. Evelyn. No. 1,424,395; Aug. 1.
- Bumper-supporting bracket. W. R. McGowen. No. 1,419,279; June 13.
- Bumper-supporting bracket. W. R. McGowen. No. 1,427,488; Aug. 29.
- Bumping post. R. D. Gallagher. No. 1,439,084; Dec. 19.
- Bundle tier. F. Radechovsky. No. 1,407,481; Feb. 21.
- Bundling machine. E. Hatch. (Reissue.) No. 15,486; Nov. 7.
- Bundling machine. W. O. Jones. No. 1,417,329; May 23.
- Bung-flange blank. G. A. Moore. No. 1,427,616; Aug. 29.
- Bung-hole stopper. R. E. Lenahan. No. 1,411,853; Apr. 4.
- Bung, Safety. C. A. Phelps. No. 1,404,639; Jan. 24.
- Bungalow, Movable. E. C. Heygate. No. 1,417,736; May 30.
- Bunion guard and foot support, Combined. L. W. V. Wilms. No. 1,402,557; Jan. 3.
- Bunion protector. T. A. Elchhorn. No. 1,436,439; Nov. 21.
- Bunk, Collapsible-stake tag. J. Overson. No. 1,413,540; Apr. 18.
- Bunsen burner. C. Spitz. No. 1,436,920; Nov. 28.
- Buoy for boats, Outboard. G. Haack. No. 1,417,824; May 30.
- Buoy, Wreck-indicating. G. W. Gwynn. No. 1,414,273; Apr. 25.
- Buoys, Device for launching ring life. S. E. Hansen. No. 1,423,561; July 25.
- Bur stand. F. W. Korb. No. 1,437,596; Dec. 5.
- Burglar alarm. F. L. Anderson. No. 1,408,920; Mar. 7.
- Burglar alarm. G. Antofilli. No. 1,420,510; June 20.
- Burglar alarm. F. K. Atherton and C. F. Webb. No. 1,421,144; June 27.
- Burglar alarm. L. Brichetto. No. 1,419,954; June 20.
- Burglar alarm. M. J. Cawley. No. 1,439,795; Dec. 26.

Alphabetical list of inventions—Continued.

- Burglar alarm. R. J. Cutshall. No. 1,411,167; Mar. 28.
 Burglar alarm. M. C. Dart. No. 1,439,152; Dec. 19.
 Burglar alarm. C. C. Elsea. No. 1,439,876; Dec. 26.
 Burglar alarm. O. C. Flynn. No. 1,437,642; Dec. 5.
 Burglar alarm. J. A. Foley. No. 1,424,591; Aug. 8.
 Burglar alarm. G. W. Frank, jr., and F. Carlock. No. 1,426,169; Aug. 15.
 Burglar alarm. D. Fraser. No. 1,438,592; Dec. 12.
 Burglar alarm. M. Goldstone. No. 1,440,219; Dec. 26.
 Burglar alarm. R. Koehler. No. 1,429,595; Sept. 19.
 Burglar alarm. J. F. Mackovitch. No. 1,421,972; July 4.
 Burglar alarm. A. D. Marcotte. No. 1,435,969; Nov. 21.
 Burglar alarm. F. H. Phillips. No. 1,420,743; June 27.
 Burglar alarm. F. E. Sparks. No. 1,435,882; Nov. 14.
 Burglar alarm and lock. E. C. Klomfass. No. 1,419,738; June 13.
 Burglar alarm and protector. A. Horvitz. No. 1,404,295; Jan. 24.
 Burglar alarm, Cash-drawer. W. C. Dillon, C. J. Toay, W. H. Toay, and A. Haney. No. 1,406,447; Feb. 14.
 Burglar alarm, Portable. F. Crossman. No. 1,440,005; Dec. 26.
 Burglar-proof mechanism for banks. J. L. Busch. No. 1,401,959; Jan. 3.
 Burglar protective apparatus. C. W. Hutchinson. No. 1,409,721; Mar. 14.
 Burial box. F. Lees. No. 1,421,967; July 4.
 Burial case. G. W. Dunn. No. 1,431,727; Oct. 10.
 Burial casket. S. W. Manning. No. 1,431,827; Oct. 10.
 Burial crypt. R. E. Glass. No. 1,427,458; Aug. 29.
 Burial receptacle, Metal. F. G. Wilson. No. 1,433,443; Oct. 24.
 Burner: *See*—
 Bunsen burner. Oil burner.
 Carburetor burner. Oil-gas burner.
 Closed adjustable lighting burner. Oil or gas burner.
 Combination burner. Oven burner.
 Fuel burner. Pilot-light burner.
 Fuel-oil burner. Pitch burner.
 Gas burner. Powdered-coal burner.
 Gas heating burner. Refuse burner.
 Gas and oil burner. Stove burner.
 Gaseous-fuel burner. Stump burner.
 Hydrocarbon burner. Sulphur burner.
 Hydrocarbon blast burner. Torch burner.
 Hydrocarbon-gas burner. Vapor burner.
 Incense burner. Weed burner.
 Kerosene burner. Weed and insect burner.
 Liquid-fuel burner. Wick burner.
 Burner. J. W. B. Balfour. No. 1,428,129; Sept. 5.
 Burner. F. W. Balster. No. 1,418,422; June 6.
 Burner. W. G. Bergman. No. 1,411,470; Apr. 4.
 Burner. J. S. Brennan. No. 1,424,149; Aug. 1.
 Burner. E. E. Cornwell and J. H. McCready. Nos. 1,405,100-1; Jan. 31.
 Burner. J. A. Diener. No. 1,424,808; Aug. 8.
 Burner. W. J. Edwards. No. 1,440,214; Dec. 26.
 Burner. G. C. Evans. No. 1,429,415; Sept. 19.
 Burner. M. A. Fesler. No. 1,415,434; May 9.
 Burner. R. A. Grim. No. 1,424,817; Aug. 8.
 Burner. J. Hagen. No. 1,406,003; Feb. 7.
 Burner. F. Harris. No. 1,431,791; Oct. 10.
 Burner. A. G. Kaufman. No. 1,438,379; Dec. 12.
 Burner. B. E. Lee. No. 1,437,524; Dec. 5.
 Burner. F. L. Lindhorst. No. 1,420,850; June 27.
 Burner. H. J. Mastenbrook. No. 1,437,188; Nov. 28.
 Burner. R. F. Metcalfe. No. 1,416,734; May 23.
 Burner. J. B. Reeves. No. 1,424,739; Aug. 1.
 Burner. H. Waterman. No. 1,415,965; May 16.
 Burner. R. W. Wiederwax. No. 1,405,242; Jan. 31.
 Burner and heater, Combined. G. W. Woods. No. 1,439,595; Dec. 19.
 Burner and system employing same, Liquid-fuel. W. C. Dayton. No. 1,409,678; Mar. 14.
 Burner construction. W. E. Hoke. No. 1,427,738; Aug. 29.
 Burner drum. J. S. Brennan. No. 1,428,212; Sept. 5.
 Burner for heating purposes. B. Simonides. No. 1,404,241; Jan. 24.
 Burner-lifting means. J. S. Brennan. No. 1,422,079; July 11.
 Burner regulator. A. G. Sherman. No. 1,423,627; July 25.
 Burner top. J. M. Weydell. No. 1,436,420; Nov. 21.
 Burners, Automatic air and oil regulator for rotary. W. R. Ray. No. 1,406,414; Feb. 14.
 Burners, Automatically-controlled pressure feed for liquid hydrocarbon. G. N. Blanchard. No. 1,439,288; Dec. 19.
 Burners. Fuel regulator for gas. C. Stichler. No. 1,407,098; Feb. 21.
 Burners, Gas and air regulating device for incandescent mantle. O. P. Cramer. No. 1,418,237; May 30.
 Burners, Regulator for gas-heater. T. W. Corkell. No. 1,406,614; Feb. 14.
 Burners, Stand for alcohol. G. S. Meikle. No. 1,421,284; June 27.
 Burnishing machine. F. M. Furber. No. 1,404,196; Jan. 24.
 Burnishing machine. L. J. Van Guelpen. No. 1,423,051; July 18.
 Burnishing machine, Electrically-heated. F. E. Boothroyd. No. 1,410,053; Mar. 21.
 Burnishing tool. A. Callebent. No. 1,429,403; Sept. 19.
 Burnishing tool. L. J. Van Guelpen. No. 1,423,052; July 18.
 Bus-bar support. C. Christensen. No. 1,409,927; Mar. 21.
 Bushing, Bung. F. E. McCabe. No. 1,413,989; Apr. 25.
 Bushing coupling, Frictional. L. W. Misenheimer. No. 1,422,598; July 11.
 Bushing inserter or remover. O. F. Timm. No. 1,422,390; July 11.
 Bushing remover. J. L. Rudolph. No. 1,424,261; Aug. 1.
 Bushing remover. R. K. Starkey. No. 1,428,815; Sept. 12.
 Bushing-removing device. T. J. Corrigan. No. 1,403,546; Jan. 17.
 Bushings and similar articles, Manufacturing. J. W. Leighton. No. 1,416,846; May 23.
 Business form. J. L. Howard. No. 1,406,561; Feb. 14.
 Butchering stand. C. M. Duke. No. 1,417,234; May 23.
 Butt hook. E. E. Cochran. No. 1,424,238; Aug. 1.
 Butt-inlet-cutting device. A. C. Vogt. No. 1,417,431; May 23.
 Butt remover. O. S. Sells. No. 1,412,543; Apr. 11.
 Butter cutter. J. W. Cartuschka. No. 1,436,236; Nov. 21.
 Butter cutter. S. A. Hathorne. No. 1,413,223; Apr. 18.
 Butter cutter. A. F. Smith. No. 1,438,870; Dec. 12.
 Butter cutter. C. F. Smith. No. 1,426,016; Aug. 15.
 Butter cutter, Service. R. A. Simpson. No. 1,434,919; Nov. 7.
 Butter cutting and printing machine. A. Sharp. No. 1,416,517; May 16.
 Butter-cutting machine. E. Hartung. No. 1,430,078; Sept. 26.
 Butter-cutting machine. C. F. Miller. No. 1,414,904; May 2.
 Butter-cutting machine. R. A. Simpson. No. 1,434,920; Nov. 7.
 Butter-cutting machine, Automatic. I. C. Popper. No. 1,424,117; July 25.
 Butter-fat gauge. J. A. Meeker. No. 1,421,524; July 4.
 Butter fat, Manufacture of. E. B. Phelps, A. F. Stevenson, and J. C. Baker. No. 1,404,054; Jan. 17.
 Butter fat or oil from milk and cream, Extracting. C. E. North. No. 1,416,053; May 16.
 Butter-handling machine. R. F. Stewart. No. 1,432,919; Oct. 24.
 Buttermilk, Desiccated. I. S. Merrell. No. 1,430,312; Sept. 26.
 Butter-print-forming machine. R. F. Stewart. No. 1,425,711; Aug. 15.
 Butter-print machine. H. H. Doering. No. 1,403,673; Jan. 17.
 Butter-serving machine. M. G. de Simone. No. 1,440,138; Dec. 26.
 Butter spreader. S. N. Kohn. No. 1,426,085; Aug. 15.
 Butter substitute and making same. C. and H. H. Doering. No. 1,434,048; Oct. 31.
 Butter substitutes, Method of and apparatus for manufacturing. C. and H. H. Doering. No. 1,434,049; Oct. 31.
 Butter tester. E. H. Farrington. No. 1,428,020; Sept. 5.
 Butter worker. C. E. Senke. No. 1,405,016; Jan. 31.
 Button. C. F. Gaunt. No. 1,432,595; Oct. 17.
 Button. T. A. J. Hendrix. No. 1,410,916; Mar. 28.
 Button. B. F. Hubbell. No. 1,434,491; Nov. 7.
 Button. E. Kleinmann. No. 1,426,651; Aug. 22.
 Button. J. J. Lee. No. 1,410,327; Mar. 21.
 Button. N. S. Meyer. No. 1,407,945; Feb. 28.
 Button. J. E. Potter. No. 1,425,131; Aug. 8.
 Button. E. M. Stephenson. No. 1,430,601; Oct. 8.
 Button. F. R. White. No. 1,417,646; May 30.
 Button. F. R. White. Nos. 1,434,466-7; Nov. 7.
 Button and clasp, Collar. Z. B. Beckley. No. 1,421,148; June 27.
 Button and link unit therefor, Link cuff. V. Slater and G. B. Guthrie. No. 1,436,204; Nov. 21.
 Button and making same, Hose-supporter. L. D. Christie. No. 1,423,599; July 25.
 Button-blank-making machine. H. H. Knott, E. B. Hammer, and C. J. Jungbluth. No. 1,403,254; Jan. 10.
 Button block. G. W. Woodward. No. 1,419,597; June 13.
 Button, Collar. S. Blacher. No. 1,414,617; May 2.
 Button, Collar. T. A. Martin. No. 1,439,630; Dec. 19.
 Button, Collar. J. S. Mead. No. 1,425,670; Aug. 15.
 Button, Cuff. C. Aymar. No. 1,409,514; Mar. 14.
 Button, Cuff. B. Goldstein. No. 1,433,715; Oct. 31.
 Button, Cuff. H. D. Kantor. No. 1,409,010; Mar. 7.
 Button, Cuff. M. C. Miller. No. 1,429,290; Sept. 19.
 Button, Cuff. M. W. Severance. No. 1,423,267; July 18.
 Button, Fabric-covered. J. Weidmüller. No. 1,434,077; Oct. 31.
 Button-forming machine. H. J. Skipp. No. 1,436,918; Nov. 28.
 Button, Garment-fastener. J. Maltby. No. 1,418,819; June 6.
 Button, Garment-fastener. T. Miller. No. 1,418,823; June 6.
 Button-holding retainer. W. Halket. No. 1,412,938; Apr. 18.
 Buttonhole machine. H. C. Miller. No. 1,438,848; Dec. 12.
 Buttonhole machines, Attachment for. C. E. Casgrain. No. 1,404,372; Jan. 24.
 Buttonhole machines, Thread-pull-off device for. A. L. Plamondon. No. 1,420,745; June 27.
 Buttonhole-stitching machine. C. E. Casgrain. No. 1,411,953; Apr. 4.
 Buttonholes, Apparatus for reinforcing. W. Duesler. No. 1,434,686; Nov. 7.

Alphabetical list of inventions—Continued.

- Buttonholes, Machine for beveling edges of. W. J. Brennan. No. 1,427,780; Sept. 5.
- Buttonholes, Making. W. Duesler. No. 1,416,801; May 23.
- Button, Hook. L. S. Brown. No. 1,438,294; Dec. 12.
- Buttonhook. M. F. Forzly. No. 1,425,760; Aug. 15.
- Button, Hose-supporter. D. G. Butts. No. 1,437,926; Dec. 5.
- Button, Lapel. R. Laux. No. 1,426,487; Aug. 22.
- Button, Link. E. Klawans. No. 1,418,934; June 6.
- Button machine. O. Soderstrom and W. Fuhrmann. No. 1,433,244; Oct. 24.
- Button-making machine. H. Rosen. No. 1,431,260; Oct. 10.
- Button, Marking. H. V. Rau. No. 1,407,085; Feb. 21.
- Button-mold machine and dies. C. W. Scott. No. 1,407,089; Feb. 21.
- Button parts or the like, Method and apparatus for rolling in the neck in press-. P. Pondorf. No. 1,417,199; May 23.
- Button, Permanent collar. A. M. Deutsch. No. 1,412,045; Apr. 11.
- Button, Press. A. Prym. No. 1,438,551; Dec. 12.
- Button, Releasable self-fastening. M. Menkin. No. 1,427,614; Aug. 29.
- Button remover, Shoe-. O. S. Eller. No. 1,422,947; July 18.
- Button, Separable. A. H. Eddy. No. 1,430,008; Sept. 26.
- Button, Separable cuff. E. F. Clark. No. 1,434,680; Nov. 7.
- Button, Separable cuff. E. J. Swedlund. No. 1,404,247; Jan. 24.
- Button, Separable cuff. E. J. Swedlund. No. 1,431,339; Oct. 10.
- Button stay strips, Sewing machine for applying. J. R. Moffatt. No. 1,422,220; July 11.
- Button-stitching machine. J. Russell. No. 1,408,474; Mar. 7.
- Button substitute for shirts, Collar-. A. Scovronek. No. 1,409,244; Mar. 14.
- Button threader. G. A. Fritsch. No. 1,436,030; Nov. 21.
- Buttons, Combined drill and reamer for pearl. P. F. Dusha and A. Feyk. No. 1,411,207; Mar. 28.
- Buttons, from calcined gypsum, cement, or the like, Producing small form pieces, especially. A. Haenicke. No. 1,427,103; Aug. 29.
- Buttons, Machine for the manufacture of. F. B. Mills. No. 1,433,963; Oct. 31.
- Buttons on cards, Machine for mounting press. H. Prym. No. 1,407,576; Feb. 21.
- Buttons, Ornamental covering for shoe. T. H. Fishel. No. 1,419,034; June 6.
- Butyric aldehyde, Manufacture of. D. A. Legg. No. 1,418,448; June 6.
- By-product-recovery process. A. Roberts. No. 1,405,629; Feb. 7.
- Cabbage cutter. G. Dorcheff alias G. Theodore. No. 1,422,937; July 18.
- Cabinet. U. Bourke. No. 1,431,211; Oct. 10.
- Cabinet. G. W. Garniss. No. 1,409,942; Mar. 21.
- Cabinet. J. L. Flannery. No. 1,405,825; Feb. 7.
- Cabinet. H. A. Kroeger. No. 1,435,861; Nov. 14.
- Cabinet. L. Preziosi. No. 1,431,420; Oct. 10.
- Cabinet. J. H. Rand, jr., and V. F. King. No. 1,429,627; Sept. 19.
- Cabinet, Advertising. C. E. Closson. No. 1,416,267; May 16.
- Cabinet and dressing tray, Combined wall. E. O. Hall. No. 1,428,957; Sept. 12.
- Cabinet and piano. Combined. J. H. Dickinson. No. 1,424,885; Aug. 8.
- Cabinet and rack, Combined. W. O. Rawls. No. 1,409,026; Mar. 7.
- Cabinet, Automobile. J. Schmitt. No. 1,413,136; Apr. 18.
- Cabinet, Card-index. A. L. Jaynes. No. 1,407,656; Feb. 21.
- Cabinet, Card-index. B. G. Rand. No. 1,407,948; Feb. 28.
- Cabinet, Collapsible camping or picnic. J. P. Hart. No. 1,437,756; Dec. 5.
- Cabinet construction, Unit. C. E. Moulton. No. 1,426,892; Aug. 15.
- Cabinet, Dining-room. R. L. Leatherman. No. 1,409,871; Mar. 14.
- Cabinet, Directory. S. A. D. Puter and A. F. Eltscher. No. 1,415,703; May 9.
- Cabinet, Disk-record. G. M. Bumphrey. No. 1,439,725; Dec. 26.
- Cabinet, Disk-record. S. S. Ward. No. 1,429,052; Sept. 12.
- Cabinet, Dispensing. F. W. Calvert. No. 1,403,007; Jan. 10.
- Cabinet, Dispensing. M. M. Marcuse. No. 1,438,320; Dec. 12.
- Cabinet, Dispensing. S. Wheeler. No. 1,433,862; Oct. 31.
- Cabinet, Display. W. A. Hall and O. Robinson. No. 1,419,846; June 13.
- Cabinet, Double-ended filing. A. S. Ede. No. 1,414,505; May 2.
- Cabinet, Dressing. J. D. Harris. No. 1,408,731; Mar. 7.
- Cabinet drier. H. Bentz. No. 1,425,314; Aug. 8.
- Cabinet, Filing. A. R. Bullock. No. 1,415,307; May 9.
- Cabinet, Filing. E. H. Metcalf. No. 1,433,836; Oct. 31.
- Cabinet, Food. C. T. Papay. No. 1,432,614; Oct. 17.
- Cabinet, Fuel. G. D. Hood. No. 1,419,259; June 13.
- Cabinet, Kitchen. W. M. Gallagher. No. 1,406,368; Feb. 14.
- Cabinet, Kitchen. G. L. Hillyer and C. A. Creag. No. 1,409,445; Mar. 14.
- Cabinet, Kitchen. L. L. Ludwig. No. 1,419,278; June 13.
- Cabinet, Kitchen. C. Mahoney. No. 1,417,401; May 23.
- Cabinet, Kitchen. M. M. Schultz. No. 1,429,697; Sept. 19.
- Cabinet, Kitchenette. D. O. Green. No. 1,421,456; July 4.
- Cabinet, Label. S. R. Kramer. No. 1,432,870; Oct. 24.
- Cabinet latch. F. C. Bassick. No. 1,412,599; Apr. 11.
- Cabinet, Metal revolving. A. A. West. No. 1,421,331; June 27.
- Cabinet, Milk or cream. W. P. Fry. No. 1,423,714; July 25.
- Cabinet, Multiple-panel-locked. G. C. Polson. No. 1,438,503; Dec. 12.
- Cabinet, Record. H. Ferge and A. Wuchterl. No. 1,436,026; Nov. 21.
- Cabinet, Record-filing. W. E. Muffy. No. 1,406,753; Feb. 14.
- Cabinet, Roller-towel. G. W. Ferdon. No. 1,408,283; Feb. 28.
- Cabinet, Roller-towel. G. A. Steiner. No. 1,426,121; Aug. 15.
- Cabinet, Sheet-metal. F. P. Williams. No. 1,419,481; June 13.
- Cabinet, Storage. J. A. Miner. No. 1,416,409; May 16.
- Cabinet, Store service. H. T. Granbow. No. 1,418,787; June 6.
- Cabinet, Store-service. A. M. Woltz. No. 1,406,129; Feb. 7.
- Cabinet, Towel. G. A. Steiner. No. 1,414,443; May 2.
- Cabinet, Towel-service. G. W. Ferdon. No. 1,405,194; Jan. 31.
- Cabinets, Door structure for display. J. Vess. No. 1,414,843; May 2.
- Cabinets, Method and apparatus for assembling. A. F. Krueger. No. 1,404,978; Jan. 31.
- Cable. T. Gore. No. 1,419,560; June 13.
- Cable, Armored. C. L. Johnson. No. 1,414,024; Apr. 25.
- Cable beads or grommets, Manufacturing. F. H. Beyea. Nos. 1,429,123-4; Sept. 12.
- Cable carrier. J. F. Reilly. Nos. 1,429,631-2; Sept. 19.
- Cable clamp. K. Berger. No. 1,430,783; Oct. 3.
- Cable clamp. N. L. Dolph and P. O. Reyneau. No. 1,437,230; Nov. 28.
- Cable clamp. C. W. and J. T. Kemper. (Reissue.) No. 1,529,0; Feb. 21.
- Cable clamp. C. W. and J. T. Kemper. No. 1,410,759; Mar. 28.
- Cable clamp. C. W. and J. T. Kemper. Nos. 1,411,730-1; Apr. 4.
- Cable clamp. D. M. Salter and S. Robichaux. No. 1,423,263; July 18.
- Cable clamp and bridge ring, Conduit for. W. J. Hiss. No. 1,410,011; Mar. 21.
- Cable clamp and wire holder, Combined. J. A. Leen, Jr. No. 1,408,750; Mar. 7.
- Cable clamps. W. A. Lee. No. 1,419,741; June 13.
- Cable coupling. J. W. H. Blee and A. P. Powell. No. 1,407,370; Feb. 21.
- Cable-cutting device. T. Webb. No. 1,419,789; June 13.
- Cable ends, Anchoring or fastening device for. E. L. Leimbach. No. 1,408,212; Feb. 28.
- Cable fastener. A. W. Perlitz. No. 1,415,112; May 9.
- Cable fastening. J. J. Langer. No. 1,408,519; Mar. 7.
- Cable fastening. J. J. Langer. No. 1,410,482; Mar. 21.
- Cable grip. J. Martinson. No. 1,405,307; Jan. 31.
- Cable guard, Crown-block. V. W. Zilen. No. 1,423,550; July 25.
- Cable guide and stuffing box, Swing-pipe. W. F. Edwards. No. 1,435,154; Nov. 14.
- Cable, Hauling. W. von Raczynski. No. 1,430,042; Sept. 26.
- Cable-hauling and body-dumping mechanism. L. M. Spencer. No. 1,424,425; Aug. 1.
- Cable hitch, Spring. D. L. Lindquist. No. 1,418,089; May 30.
- Cable holder. H. Olsen. No. 1,419,584; June 13.
- Cable lock. J. C. Williamson. No. 1,425,732; Aug. 15.
- Cable reel and trolley-pole switch, Safety transfer. W. T. Jones. No. 1,408,601; Mar. 7.
- Cable-roller bracket. L. P. Wood. No. 1,409,807; Mar. 14.
- Cable splice. J. A. Newberry. No. 1,427,494; Aug. 29.
- Cable support. H. O. Rockwell. No. 1,437,363; Nov. 28.
- Cable, Suspension-bridge. J. F. Howe. No. 1,427,987; Aug. 29.
- Cable swivel. T. A. Northrup. No. 1,413,487; Apr. 18.
- Cable system. L. Cohen. No. 1,414,179; Apr. 25.
- Cable-take-up grip. R. E. Choate. No. 1,425,077; Aug. 8.
- Cableway carriage. D. Lawson. No. 1,406,987; Feb. 21.
- Cables, Attaching means for. T. S. Miller. No. 1,437,971; Dec. 5.
- Cables, Carriage for conveying drums of electric. T. C. Smith. No. 1,436,733; Nov. 28.
- Cables, Conduit for power-transmitting. L. V. Homan. No. 1,425,090; Aug. 8.
- Cables, Device for connecting loads to elevating. B. F. Fitch. No. 1,415,090; May 9.
- Cables, Fault locator for electric. H. M. Stoller. No. 1,412,376; Apr. 11.
- Cables or conductors with other parts, Device for connecting electric. G. Giovannoni. No. 1,436,341; Nov. 21.
- Cableway. G. Frink. No. 1,438,756; Dec. 12.
- Cableway. T. S. Miller. No. 1,438,453; Dec. 12.

Alphabetical list of inventions—Continued.

- Cableway, Excavating. T. S. Miller. No. 1,438,608; Dec. 12.
- Caddy bag. H. A. Myers. No. 1,429,524; Sept. 19.
- Cadmium test device. B. J. Haskins. No. 1,426,868; Aug. 22.
- Cafeteria. G. L. N. Meyer. No. 1,412,254; Apr. 11.
- Cafeteria table. J. Kruckewitt. No. 1,408,359; Feb. 28.
- Caffeine. T. Schulze. No. 1,438,558; Dec. 12.
- Caffeine out of coffee beans. Extraction of the. H. Rosehus. No. 1,414,096; Apr. 25.
- Cage, Bird. J. Stakutis. No. 1,420,880; June 27.
- Cage perch. W. H. Harrison. No. 1,425,524; Aug. 15.
- Cages, Machine for manufacturing wire. W. E. Baker and W. F. Sonneman. No. 1,421,973; Aug. 8.
- Cages, Protecting device for cashiers'. E. H. Carlson. No. 1,434,872; Nov. 7.
- Cake and cracker conveyer, Pan-dumping apparatus for. P. Rasmussen. No. 1,415,392; May 9.
- Cake-forming machine. J. Fousek. No. 1,417,156; May 23.
- Cake mixer. C. E. Flink, J. E. Beck, and G. L. Olson. No. 1,433,710; Oct. 31.
- Cake or biscuit cutter. B. S. Williams. No. 1,421,749; July 4.
- Cakes, etc., Mechanism for depositing coating upon. E. E. Lawrence. No. 1,432,701; Oct. 17.
- Cakes, Machine for coating. F. G. Salerno. No. 1,413,995; Apr. 25.
- Cakes or blocks, such as caramels, etc., Machine or apparatus for wrapping. H. Rose. No. 1,414,831; May 2.
- Calcium arsenate, Manufacture of. C. B. Dickey. No. 1,428,946; Sept. 12.
- Calcium arsenate, Manufacture of. C. B. Dickey. No. 1,434,650; Nov. 7.
- Calcium carbide, Manufacturing. W. B. Rogatz. No. 1,422,135; July 11.
- Calculating device. J. Crompton and W. Gallagher. No. 1,424,344; Aug. 1.
- Calculating device. V. Daemen. No. 1,433,186; Oct. 24.
- Calculating device. G. H. Duste. No. 1,437,500; Dec. 5.
- Calculating device. G. R. Flynn. No. 1,426,829; Aug. 22.
- Calculating device. R. Landenberger. No. 1,439,246; Dec. 19.
- Calculating device. W. W. Leinert. No. 1,435,485; Nov. 14.
- Calculating device. A. H. Radford. No. 1,410,119; Mar. 21.
- Calculating device. F. R. Robinson. No. 1,409,583; Mar. 14.
- Calculating device, Mechanical. C. A. Gilson. No. 1,404,019; Jan. 17.
- Calculating device, Numerical. G. G. Dobson. No. 1,426,825; Aug. 22.
- Calculating instrument. C. F. Eaton, Jr. No. 1,407,134; Feb. 21.
- Calculating machine. F. A. Belt. No. 1,415,297; May 9.
- Calculating machine. R. G. C. Boa. No. 1,418,062; May 30.
- Calculating machine. W. H. Brown. No. 1,426,710; Aug. 22.
- Calculating machine. B. J. Collins. No. 1,402,572; Jan. 3.
- Calculating machine. H. Enders. No. 1,414,729; May 2.
- Calculating machine. H. E. Goldberg, (now by judicial change of name, Hyman Golber.) No. 1,404,954; Jan. 31.
- Calculating machine. F. A. Hart. No. 1,414,639; May 2.
- Calculating machine. C. L. Harvey and F. O. Mueller. No. 1,440,145; Dec. 26.
- Calculating machine. A. Pentecost and W. W. Fisher. No. 1,433,908; Oct. 31.
- Calculating machine. E. E. Phinney. No. 1,432,256; Oct. 17.
- Calculating machine. R. T. Piscicelli. No. 1,416,974; May 23.
- Calculating machine. W. P. Quentell. No. 1,439,710; Dec. 26.
- Calculating machine. W. T. Ray. No. 1,410,507; Mar. 21.
- Calculating machine. A. Rehnitz. No. 1,409,575; Mar. 14.
- Calculating machine. G. A. Seib. No. 1,423,741; July 25.
- Calculating machine. A. N. Smith. No. 1,415,125; May 9.
- Calculating machine. J. C. Wahl. Nos. 1,418,110-11; May 30.
- Calculating machine. O. Woodward. No. 1,423,637; July 25.
- Calculating machine. H. A. Wrenn. No. 1,438,419; Dec. 12.
- Calculating machines, Calculating wheel of. V. J. Odner. No. 1,440,028; Dec. 26.
- Calculating machines, Control mechanism for. J. F. Robb. No. 1,421,719; July 4.
- Calculating machines, Digit wheel for. H. Enders. No. 1,414,730; May 2.
- Calculating machines, Full-stroke mechanism for. K. V. Rudin. No. 1,424,183; Aug. 1.
- Calculating machines, Keyboard-clearing means for. E. E. Phinney. No. 1,432,616; Oct. 17.
- Calculating machines, Locking device for. W. Augustin. No. 1,428,831; Sept. 12.
- Calculating machines, Zero-setting device for. H. Enders. No. 1,413,713; Apr. 25.
- Calculating or computing purposes, Device for. H. and F. Brotherton. No. 1,424,194; Aug. 1.
- Calculating rule. W. L. Wyckoff. No. 1,423,896; July 25.
- Calculations, Recording machine for mechanically-determined. G. W. Odell. No. 1,406,066; Feb. 7.
- Calculator. A. S. Boggio. No. 1,435,512; Nov. 14.
- Calculator. H. S. Edmondson. No. 1,422,944; July 18.
- Calculator. J. E. Lysen. No. 1,418,947; June 6.
- Calculator. L. E. Maupin. No. 1,414,198; Apr. 25.
- Calculator. W. L. Wyckoff. No. 1,439,936; Dec. 26.
- Calculator and recorder, Horse-power. J. N. G. Nesbit. No. 1,407,352; Feb. 21.
- Calculator, Demurrage. J. W. Worman. No. 1,440,326; Dec. 26.
- Calculator, Lumber. A. L. Beck. No. 1,439,938; Dec. 26.
- Calendar. W. H. Baker. No. 1,436,140; Nov. 21.
- Calendar. S. O. Bartlett. No. 1,421,379; July 4.
- Calendar. L. J. Brabant. No. 1,430,212; Sept. 26.
- Calendar. G. W. Fenimore. No. 1,439,080; Dec. 19.
- Calendar. P. S. Hauton. No. 1,439,736; Dec. 26.
- Calendar. L. Oppenheim. No. 1,415,686; May 9.
- Calendar. P. C. Pethick. No. 1,429,096; Sept. 12.
- Calendar. H. T. Reed. No. 1,427,850; Sept. 5.
- Calendar. S. Thomas. No. 1,417,424; May 23.
- Calendar. J. C. Thorne. No. 1,419,779; June 13.
- Calendar and diary page. C. F. Lewis. No. 1,415,883; May 16.
- Calendar, Automatic. J. F. Radtke. No. 1,439,120; Dec. 19.
- Calendar, Desk. M. W. Waters. No. 1,406,120; Feb. 7.
- Calendar device. A. N. Peffy. No. 1,430,112; Sept. 26.
- Calendar, Hour-guide. E. Marshall. No. 1,405,793; Feb. 7.
- Calendar, Maturity. J. M. Stout. No. 1,422,235; July 11.
- Calendar, Pencil. O. H. Styles. No. 1,435,672; Nov. 14.
- Calendar, Perpetual. G. G. Grunewald and M. Sweet. No. 1,426,982; Aug. 22.
- Calendar, Perpetual. W. T. Maddox. No. 1,435,248; Nov. 14.
- Calendar, Perpetual. H. Rosenthal. No. 1,438,724; Dec. 12.
- Calendar, Perpetual. J. J. Round. No. 1,425,137; Aug. 8.
- Calendar, Perpetual. W. Seifert. No. 1,435,557; Nov. 14.
- Calendar, Perpetual. G. S. Vivian. No. 1,432,504; Oct. 17.
- Calendar, Record. G. H. Deaton. No. 1,427,786; Sept. 5.
- Calendar construction. C. A. Myers. No. 1,406,062; Feb. 7.
- Calendar rack. J. Stanley and W. H. Carson. No. 1,433,916; Oct. 31.
- Calendering machine. J. H. Whitehouse. No. 1,440,193; Dec. 26.
- Calf feeder, Automatic. M. Neumann. No. 1,417,554; May 30.
- Calf weaner. E. P. Miller and V. V. Nelson. No. 1,408,018; Feb. 28.
- Calico printing, Dyestuffs particularly adapted for. C. Jagerspacher. No. 1,437,758; Dec. 5.
- Calico-printing machine. T. Hindle. No. 1,416,712; May 23.
- Caliper. B. N. Dudukian. No. 1,428,422; Sept. 5.
- Caliper gauge. K. Lauer. No. 1,409,870; Mar. 14.
- Caliper, Indicating. H. J. and F. W. Horstmann. No. 1,436,656; Nov. 28.
- Caliper screw gauge. J. D. Jackson. No. 1,436,260; Nov. 21.
- Caliper device, S. Buchsbaum. No. 1,413,319; Apr. 18.
- Calipers. E. Cichy and R. Pesek. No. 1,435,630; Nov. 14.
- Calipers. H. Hendrickson. No. 1,430,990; Oct. 3.
- Calipers. A. W. Hoffman. No. 1,420,700; June 27.
- Calipers. W. A. Hoffman. No. 1,402,497; Jan. 3.
- Calipers. R. Johnson. No. 1,410,189; Mar. 21.
- Calipers. H. Koebke. No. 1,426,878; Aug. 22.
- Calipers. H. J. Leschen. No. 1,424,492; Aug. 1.
- Calipers. W. J. Miller. No. 1,411,929; Apr. 4.
- Calipers, Extensible micrometer. F. Lustrik. No. 1,425,027; Aug. 8.
- Calipers, Jewelers'. W. Renfrew. No. 1,410,123; Mar. 21.
- Calipers, Micrometer. W. H. Church. No. 1,405,285; Jan. 31.
- Calipers, Micrometer. G. Cousins. No. 1,405,295; Jan. 31.
- Calipers, Micrometer. L. Flachskampf. No. 1,419,837; June 13.
- Calipers, spring calipers, and the like. A. E. T. Bergström. No. 1,436,143; Nov. 21.
- Calc. M. J. Griffin. No. 1,406,374; Feb. 14.
- Calling machine. H. A. Pedrick. No. 1,431,033; Oct. 3.
- Call-box contact mechanism. G. W. Janson. No. 1,416,642; May 16.
- Calling devices, Adapter for. H. W. Pugh. No. 1,414,373; May 2.
- Cam, Adjustable interrupter. W. E. Schwarzmann. No. 1,426,609; Aug. 22.
- Cam device, Double-motion. A. A. Walroden. No. 1,435,035; Nov. 7.
- Cam-holder frame. M. R. Kester. No. 1,408,809; Mar. 7.
- Cam-holder frame. M. R. Kester. No. 1,416,959; May 23.
- Cam shaft, Balanced. A. E. Augustine. No. 1,404,183; Jan. 24.
- Camera. J. S. Bishop. No. 1,415,514; May 9.
- Camera. C. E. Carter. No. 1,406,973; Feb. 21.
- Camera. J. P. Cleal and C. H. Gibbons. No. 1,426,713; Aug. 22.
- Camera. G. Davison. No. 1,411,325; Apr. 4.
- Camera. V. A. Gianett. No. 1,428,431; Sept. 5.
- Camera. L. C. Greer and B. C. Golling. No. 1,402,228; Jan. 3.

- Camera. G. W. Kauser. No. 1,406,653; Feb. 4.
 Camera. E. E. Manter. No. 1,421,092; June 27.
 Camera. J. A. McGrath. No. 1,405,240; Jan. 31.
 Camera. Y. Nagano. No. 1,433,967; Oct. 31.
 Camera. M. Niell. No. 1,410,029; Mar. 21.
 Camera. V. G. Pautler. No. 1,428,395; Sept. 5.
 Camera. W. A. Peters. No. 1,427,546; Aug. 29.
 Camera. W. S. Smith and F. S. Williams. No. 1,419,323; June 13.
 Camera and developing tank. Combination film. A. F. Grillone. No. 1,424,816; Aug. 8.
 Camera and tripod. Motion-picture. A. S. Howell. No. 1,417,523; May 30.
 Camera applicable to aerial photography. T. E. Moorhouse. No. 1,420,440; June 20.
 Camera. Autographic. W. A. Brown. No. 1,402,833; Jan. 10.
 Camera, Duplex. C. F. Jones. No. 1,416,645; May 16.
 Camera, Film. J. A. Hazelquist. No. 1,427,954; Sept. 5.
 Camera films. Attacher and automatic sealer for. E. E. Thrasher. No. 1,411,982; Apr. 4.
 Camera films. Attacher and automatic sealer for. E. E. Thrasher. (Reissue). No. 15,377; June 6.
 Camera, Folding. R. Kroedel. No. 1,435,646; Nov. 14.
 Camera-lens mount. A. S. Howell. No. 1,417,526; May 30.
 Camera-lens-tube adjustment. C. F. Speidel. No. 1,435,562; Nov. 14.
 Camera lenses. Focusing device for. A. S. Howell. No. 1,417,527; May 20.
 Camera. Motion-picture. M. F. and L. D. Hill. No. 1,407,535; Feb. 21.
 Camera, Motion-picture. L. S. Uhler. No. 1,409,980; Mar. 21.
 Camera, Photographic. J. Bordignon. No. 1,418,280; June 6.
 Camera, Photographic. J. S. Greene. No. 1,412,783; Apr. 11.
 Camera, Photographic. Z. Grünfeld. No. 1,432,180; Oct. 17.
 Camera, Photographic. G. B. Tartara. No. 1,413,947; Apr. 25.
 Camera, Photographic. T. Wallace. No. 1,430,478; Sept. 26.
 Camera, Recording. W. A. Brown. No. 1,413,253; Apr. 18.
 Camera, Reflex. C. Spiro. No. 1,421,735; July 4.
 Camera, Reflex photographic. P. G. Mason. No. 1,416,854; May 23.
 Camera shutter. L. H. Stephenson. No. 1,434,164; Oct. 31.
 Camera shutter, Curtain. C. Spiro. No. 1,421,736; July 4.
 Camera shutters. Device for operating. B. L. Parker. No. 1,420,137; June 20.
 Camera stand. M. L. Miller and H. B. Stone. No. 1,408,900; Mar. 7.
 Camera stand. L. D. Wright. No. 1,418,898; June 6.
 Camera timing attachment. P. Chilimidos. No. 1,436,627; Nov. 21.
 Camera, Vest-pocket-film. R. W. Pittman. No. 1,430,582; Oct. 3.
 Cameras. Actuating mechanism for motion-picture. A. S. Howell. No. 1,417,525; May 30.
 Cameras. Aerial mounting for. J. Sharpe. No. 1,423,364; July 18.
 Cameras. Attachment for film-pack. J. B. Torgeson. No. 1,431,851; Oct. 10.
 Cameras. Automatic focusing device for enlarging. F. J. Callier. No. 1,423,997; July 25.
 Cameras. Automatic shutter-starting device for photographic. J. Bogopolsky. No. 1,408,976; Mar. 7.
 Cameras. Changeable picture plate holder for. S. F. Myers. No. 1,435,617; Nov. 14.
 Cameras. Film-feeding mechanism for motion-picture. A. S. Howell. No. 1,417,524; May 30.
 Cameras. Film magazine for motion-picture. R. J. Giroux. No. 1,428,480; Sept. 5.
 Cameras. Film-winding mechanism for. W. A. Riddell. No. 1,422,131; July 11.
 Cameras. Finder for. W. H. Gilbert. No. 1,438,230; Dec. 12.
 Cameras. Focusing attachment for roll-film. A. Hilder. No. 1,431,657; Oct. 10.
 Cameras. Focusing finder for. W. H. Saack. No. 1,430,684; Oct. 3.
 Cameras. Magazine film and plate holder for. W. Pack. No. 1,419,406; June 13.
 Cameras. Magazine light trap for motion-picture. E. W. Nelson. No. 1,437,989; Dec. 5.
 Cameras. Multiple-exposure attachment for. A. Payne. No. 1,416,502; May 16.
 Cameras or the like. Construction for motion-picture. L. Brown. No. 1,428,321; Sept. 5.
 Cameras. Periscope attachment for motion-picture. W. C. Cox. No. 1,418,364; June 6.
 Cameras. Print-storage equipment for. J. S. Greene. No. 1,416,193; May 16.
 Cameras. Screen attachment for. E. Benson. No. 1,438,013; Dec. 5.
 Cameras. Shutter actuating device for. L. Reichart. No. 1,405,162; Jan. 31.
 Cameras. Shutter attachment for moving-picture. E. M. Mueller. No. 1,420,053; June 20.
 Cameras. Shutter lock for roll-film. P. F. Beaulieu. No. 1,413,376; Apr. 18.
 Cameras, Stereoscopic attachment for. M. M. Stilwell. No. 1,408,654; Mar. 7.
 Cameras. Support for. K. W. Thalhammer. No. 1,425,807; Aug. 15.
 Cameras. View finder for. H. A. McCallum. No. 1,437,765; Dec. 5.
 Camp chair, Folding. F. M. Stoll. No. 1,422,319; July 11.
 Camp heater, Nesting. J. L. Anderson. No. 1,419,600; June 13.
 Camp table. J. V. Milton and C. E. Marsh. No. 1,436,772; Nov. 28.
 Camp table, Folding. B. B. Dudley. No. 1,417,891; May 30.
 Camp table, Folding. W. B. Penland. No. 1,420,057; June 20.
 Camper's seat. J. Rietschel. No. 1,436,908; Nov. 28.
 Camping outfit. W. E. Sherwood. No. 1,431,187; Oct. 10.
 Camping trailer. W. J. Vint. No. 1,422,498; July 11.
 Can. Sec.—
 Dispensing can. Milk can.
 Disposal can. Oil can.
 Freezing can. Sheet-metal can.
 Garbage can. Sifter can.
 Gasoline can. Vacuum-insulated can.
 Ice can. Watering can.
 Can. J. N. Cooke. No. 1,431,218; Oct. 10.
 Can. C. F. Hake, jr. No. 1,432,181; Oct. 17.
 Can bodies, Flanging machine for. P. Kruse. No. 1,403,120; Jan. 10.
 Can bodies, Machine for forming and flanging. P. Kruse. No. 1,430,743; Oct. 3.
 Can bodies, Machine for forming beaded. P. Kruse. No. 1,435,862; Nov. 14.
 Can bodies, Machine for inserting end closures in. J. E. Annen. No. 1,433,251; Oct. 24.
 Can bodies, Machine for positioning and clinching ends upon. J. A. Gray. No. 1,436,761; Nov. 28.
 Can-body-ending machine. T. F. Fitzsimons. No. 1,422,192; July 11.
 Can-body-forming machine. J. Brenzinger. No. 1,427,896; Sept. 5.
 Can-body-forming machine. P. Kruse. No. 1,419,573; June 13.
 Can body or tube forming machine. P. Kruse. No. 1,433,629; Oct. 31.
 Can-bottoming machine. C. V. Strickland. No. 1,413,240; Apr. 18.
 Can-capping machine. H. L. Guenther. No. 1,440,289; Dec. 26.
 Can-capping machine. M. V. Nemceek and R. Stroppel. No. 1,435,415; Nov. 14.
 Can-capping tool. F. Coates. No. 1,421,673; July 4.
 Can-cleaning machine. W. B. Durant. No. 1,435,220; Nov. 14.
 Can-closing machine. P. W. Fleischer. No. 1,429,231; Sept. 19.
 Can-closing machine. A. Johnson. No. 1,435,305; Nov. 14.
 Can-closing machine. E. D. Smith. No. 1,428,992; Sept. 12.
 Can-closing machine. Filled. P. W. Fleischer. No. 1,406,631; Feb. 14.
 Can closure. R. E. Carter. No. 1,417,141; May 23.
 Can closure. E. H. Leicht. No. 1,432,252; Oct. 17.
 Can construction. D. J. Fahlman. No. 1,409,836; Mar. 14.
 Can-cooling device. E. W. Hopper. No. 1,420,841; June 27.
 Can cover. H. P. Ciesielska. No. 1,410,375; Mar. 21.
 Can cover. F. H. Jones. No. 1,429,507; Sept. 19.
 Can cover. P. J. Spittler. No. 1,420,772; June 27.
 Can-discharge device. A. R. Thompson. No. 1,422,798; July 11.
 Can-end curling and stacking mechanism. W. Cameron. No. 1,433,696; Oct. 31.
 Can-end feed. A. L. Duncan and C. E. Forry. No. 1,438,024; Dec. 5.
 Can end feeding mechanism. C. D. McDonald and C. E. Ennes. No. 1,408,617; Mar. 7.
 Can ends and seaming same to can bodies. Organized apparatus for lining. I. D. Thornburgh. No. 1,433,047; Oct. 24.
 Can ends. Apparatus for lining. I. D. Thornburgh. No. 1,408,783; Mar. 7.
 Can ends, Method and apparatus for cutting and applying gasket liners to. A. Johnson. No. 1,405,592; Feb. 7.
 Can feeder. F. Burkart. No. 1,408,861; Mar. 7.
 Can-feeding apparatus. K. W. Emerson. No. 1,428,883; Sept. 12.
 Can-feeding apparatus. M. E. Wilberts. No. 1,430,132; Sept. 26.
 Can-feeding device. L. S. Meade. No. 1,426,659; Aug. 22.
 Can-feeding machine. F. Vaughan. No. 1,402,121; Jan. 3.
 Can-feeding means. N. H. Fooks. No. 1,402,487; Jan. 3.
 Can filling and closing machine. W. E. Taylor. No. 1,416,997; May 23.
 Can-filling apparatus. A. Babendreer. No. 1,420,401; June 20.
 Can-filling apparatus. E. G. Garrett. No. 1,438,483; Dec. 12.
 Can-filling apparatus. W. L. Jones. No. 1,423,944; July 25.
 Can-filling device. A. C. Davis. No. 1,435,381; Nov. 14.
 Can-filling machine. B. P. Babcock. No. 1,434,766; Nov. 7.

Alphabetical list of inventions—Continued.

- Can-filling machine. B. P. Babcock. No. 1,439,858; Dec. 26.
- Can-filling machine. A. Schmidt. No. 1,420,222; June 20.
- Can-filling machines. Dust-retaining device for. C. T. Small. Nos. 1,433,662-3; Oct. 31.
- Can-flattening machine. D. H. Ward. No. 1,434,417; Nov. 7.
- Can for processing and other purposes. P. W. Fleischer. No. 1,435,384; Nov. 14.
- Can holder. D. M. Currey. No. 1,437,171; Nov. 28.
- Can holder. B. K. Gerojohn. No. 1,428,430; Sept. 5.
- Can holder. Preserve. C. A. Ives. No. 1,426,387; Aug. 22.
- Can holding and sealing device. J. Bauder. No. 1,427,347; Aug. 29.
- Can lid. Ventilating milk-. E. Jeanmaire. No. 1,438,376; Dec. 12.
- Can liners, Appa, for making and setting one-piece. A. Yancey. No. 1,436,748; Nov. 28.
- Can opener. J. W. and L. E. Bauer. No. 1,434,323; Oct. 31.
- Can opener. M. and L. Ehrlich. No. 1,407,521; Feb. 21.
- Can opener. C. W. Gross. No. 1,426,182; Aug. 15.
- Can opener. P. O. Hohberg. No. 1,433,509; Oct. 24.
- Can opener. M. J. Mann. No. 1,411,858; Apr. 4.
- Can opener. N. S. McEwen. No. 1,430,914; Oct. 3.
- Can opener. E. B. Minor. No. 1,406,750; Feb. 14.
- Can opener. E. M. Montes. No. 1,404,880; Jan. 31.
- Can opener. C. E. Morgan. No. 1,415,676; May 9.
- Can opener. M. M. Mudd. No. 1,420,442; June 20.
- Can opener. Y. Nagano. No. 1,402,437; Jan. 3.
- Can opener. G. A. Pattberg. No. 1,420,666; June 27.
- Can opener. M. D. Price. No. 1,410,837; Mar. 28.
- Can opener. F. E. Reeder. No. 1,426,673; Aug. 22.
- Can opener. G. Round. No. 1,439,643; Dec. 19.
- Can opener. F. P. Shek. No. 1,425,704; Aug. 15.
- Can opener. R. Z. Snyder. No. 1,420,456; June 20.
- Can opener. A. P. Stebler. No. 1,405,170; Jan. 31.
- Can opener. C. A. Tripp. No. 1,435,349; Nov. 14.
- Can opener. R. H. Waller and G. Jackson. No. 1,424,960; Aug. 8.
- Can opener. F. L. Whitcomb. No. 1,422,400; July 11.
- Can opener. F. L. Whitcomb. No. 1,429,471; Sept. 19.
- Can opener. W. G. Wise. No. 1,413,449; Apr. 18.
- Can opener and dispenser. C. Gottfredsen. No. 1,426,180; Aug. 15.
- Can opener and sealer. J. E. Reller and W. Kreckler. No. 1,416,577; May 16.
- Can-opening machine. C. O. Nicolai. No. 1,405,066; Jan. 31.
- Can or pail. F. Long. No. 1,434,831; Nov. 7.
- Can perforator. H. R. Cordum. No. 1,432,840; Oct. 24.
- Can-piercing tool. R. T. Basher. No. 1,407,830; Feb. 28.
- Can-polishing machine. A. Nelsen. No. 1,415,253; May 9.
- Can punch and sealer, Milk-. J. Exner. No. 1,434,881; Nov. 7.
- Can or receptacle. P. Wall. No. 1,407,903; Feb. 28.
- Can-righting machine. S. Eberly. No. 1,422,943; July 18.
- Can salter. N. B. Anderson and J. A. Berg. No. 1,416,156; May 16.
- Can-sealing apparatus, Solderless. R. L. Clements. No. 1,440,057; Dec. 26.
- Can-seaming machine. W. Cameron. No. 1,406,724; Feb. 14.
- Can-sealing machine. C. T. Small. No. 1,433,664; Oct. 31.
- Can solder horn. A. L. Duncan and C. E. Forry. No. 1,438,025; Dec. 5.
- Can spout. C. C. Dorner. No. 1,401,968; Jan. 3.
- Can spout. C. G. Lamb and K. O. Waldvogel. No. 1,437,663; Dec. 5.
- Can tops, Sanitary closure for milk-. M. C. Flannery. No. 1,405,679; Feb. 7.
- Can-transferring device. N. H. Fooks. No. 1,402,488; Jan. 3.
- Can-washing machine. J. McGowan, Jr. No. 1,411,288; Apr. 4.
- Can-washing machine. W. H. Paulson. No. 1,423,816; July 25.
- Can-washing machines. Attachment for milk-. C. A. Musgrave. No. 1,423,491; Sept. 5.
- Can-washing machines. Can-inverting device for. E. R. Alling and F. E. Wolf. No. 1,421,056; June 27.
- Canned goods. Shipping box for. R. L. Lemon. No. 1,428,597; Sept. 12.
- Canning apparatus. S. T. Hoyt and J. S. Napier. No. 1,418,574; June 6.
- Canning apparatus, Conveyor chain for. S. T. Hoyt and J. S. Napier. No. 1,418,572; June 6.
- Canning, Cooler especially adapted for. A. R. Thompson. No. 1,432,924; Oct. 24.
- Canning device. L. Scheekman. No. 1,429,779; Sept. 19.
- Canning machine. J. F. Anderson. No. 1,434,580; Nov. 7.
- Canning rack, Collapsible. G. Dincognito. No. 1,404,348; Jan. 24.
- Canning, Treating vegetables in preparation for. W. W. Willison. No. 1,421,750; July 4.
- Cans and discharging their contents, Device for opening. J. S. Orr. No. 1,427,545; Aug. 29.
- Cans, Apparatus for casing. C. L. Hooper. No. 1,422,057; July 4.
- Cans, Apparatus for cleansing and sterilizing empty. J. A. Roof. No. 1,411,380; Apr. 4.
- Cans, Body-forming machine for producing sanitary. G. M. Stevenson. No. 1,436,548; Nov. 21.
- Cans, Combination cap nozzle with detachable closing cap for. J. F. McGarahan. No. 1,411,573; Apr. 4.
- Cans, Cover-clinching device for. W. B. Durant. No. 1,434,687; Nov. 7.
- Cans, Device for opening. H. R. Shiffer. No. 1,409,250; Mar. 14.
- Cans, Feeding device for. W. H. Hunter and K. Serai. No. 1,439,550; Dec. 19.
- Cans, jars, bottles, etc., Clamping device for holding. A. Beedham. No. 1,409,650; Mar. 14.
- Cans, Machine for refilling. W. Mills and C. Percy. No. 1,407,076; Feb. 21.
- Cans, Manufacture of. J. G. Hodgson. No. 1,431,228; Oct. 10.
- Cans, Means for feeding. F. B. Donnellan. No. 1,416,178; May 16.
- Cancelling machine, Hand. C. D. Wolfe. No. 1,404,417; Jan. 24.
- Candies, Coating. C. Elliott. No. 1,406,628; Feb. 14.
- Candy box. P. Hall. No. 1,416,019; May 16.
- Candy cutter. A. E. Dempsey. No. 1,402,923; Jan. 10.
- Candy-cutting machine. H. Ricci. No. 1,433,910; Oct. 31.
- Candy-dipping device. I. Anderson. No. 1,428,872; Sept. 12.
- Candy jar. L. H. Shover. No. 1,434,029; Oct. 31.
- Candy jar. L. H. Shover. No. 1,438,615; Dec. 12.
- Candy machine. C. C. Morian. No. 1,425,998; Aug. 15.
- Candy making. F. C. Gephart. No. 1,427,527; Aug. 29.
- Candy-pulling machine. R. Lopez. No. 1,414,743; May 2.
- Candy-stringing machine. J. Dilger. No. 1,402,287; Jan. 3.
- Candy-wrapping machine. F. B. Lantery. No. 1,418,659; June 6.
- Candle. J. A. P. Erickson. No. 1,420,476; June 20.
- Candle and making same, Polychrome. K. V. Gambell. No. 1,426,174; Aug. 15.
- Candle, Battery. E. Pugsley. No. 1,421,561; July 4.
- Candle extinguisher. T. Cullen. No. 1,425,080; Aug. 8.
- Candle holder. O. A. Larson. No. 1,424,573; Aug. 1.
- Candle holder. G. H. North. No. 1,407,801; Feb. 28.
- Candle-making machine. R. Grossmann. No. 1,423,608; July 25.
- Candle, Ornamented. J. E. Brinker and C. P. McNeil. No. 1,428,940; Sept. 12.
- Candle wick. W. C. Kreuzer. No. 1,420,322; June 20.
- Cane and kafir corn processor. A. H. Harris. No. 1,431,950; Oct. 17.
- Cane-crushing apparatus, Roll for. H. Hurter. No. 1,409,001; Mar. 7.
- Cane-harvesting apparatus. C. C. Hobson. No. 1,425,479; Aug. 8.
- Cane mill. H. Hurter. No. 1,409,002; Mar. 7.
- Cane mill. H. Hurter. No. 1,422,979; July 18.
- Cane mills, Indicator and caliper gauge for. W. Langmeier. No. 1,421,504; July 4.
- Cane stripper. V. L. and T. Covey. No. 1,424,989; Aug. 8.
- Cannon, Recuperator system for. B. B. Holmes. No. 1,413,534; Apr. 18.
- Canopy. W. H. Beehler. No. 1,414,616; May 2.
- Canopy-frame bracket. C. B. Pike. No. 1,416,414; May 16.
- Canteen holder. R. H. Prichard. No. 1,420,143; June 20.
- Can't hook, Unbreakable. J. W. Stolle. No. 1,423,781; July 25.
- Cantilever spring. M. Houdaille. No. 1,408,300; Feb. 28.
- Canvas and similar woven fabrics, Treatment of. T. Andrew. No. 1,425,934; Aug. 15.
- Canvas, Apparatus for weaving bicycle and auto. A. W. Jansen. No. 1,423,427; July 18.
- Canvases, Clamp for artists'. E. T. Hurley. No. 1,432,336; Oct. 17.
- Caoutchouc and caoutchouc like products, Manufacture of. P. Schidrowitz. No. 1,418,976; June 6.
- Caoutchouc composition. A. Biddle. No. 1,437,487; Dec. 5.
- Caoutchouc, Manufacture of thiocarbaniide for vulcanization of. C. W. Bedford and R. L. Sibley. No. 1,406,719; Feb. 14.
- Caoutchouc, Thiocarbaniide derivatives in the vulcanization of. C. W. Bedford and R. L. Sibley. No. 1,406,718; Feb. 14.
- Caoutchouc, Vulcanizing. C. W. Bedford and R. L. Sibley. No. 1,406,717; Feb. 14.
- Caoutchouc, Vulcanizing. C. W. Bedford and R. L. Sibley. No. 1,418,771; June 6.
- Caoutchouc, Vulcanizing. C. W. Bedford. No. 1,418,772; June 6.
- Cap. J. Carlson. No. 1,423,829; July 25.
- Cap. S. Gledman. No. 1,420,032; June 20.
- Cap. H. S. Gooding. No. 1,422,435; July 11.
- Cap. L. Kronthal. No. 1,404,616; Jan. 24.
- Cap. H. Newman. No. 1,410,216; Mar. 21.
- Cap. J. K. Trau. No. 1,414,797; May 2.
- Cap, Adjustable. P. A. Fischer. No. 1,435,221; Nov. 14.
- Cap, Adjustable. C. Solomon. No. 1,419,771; June 13.
- Cap, Bathing. A. Baldwin. No. 1,407,625; Feb. 21.
- Cap-crown-protecting device. J. H. Boucher. No. 1,433,108; Oct. 24.
- Cap, Dust. A. E. Bronson. No. 1,432,525; Oct. 17.
- Cap, Dust. R. P. Byam. No. 1,436,082; Nov. 21.
- Cap lock. O. P. Smith. No. 1,434,161; Oct. 31.
- Cap or hat. S. Duberstein. No. 1,412,171; Apr. 11.
- Cap, Protective. W. F. Schacht. No. 1,410,605; Mar. 28.

- Cap. Quick-detachable. C. D. Wright. No. 1,406,133; Feb. 7.
- Cap retainer. A. W. Paull and J. A. McGinnis. No. 1,430,843; Oct. 3.
- Cap. Sanitary. G. M. Marr. No. 1,425,532; Aug. 15.
- Cap shaper. O. C. Leger. No. 1,422,366; July 11.
- Cap-size-reducing device. A. M. Adams and M. W. Landau. No. 1,409,810; Mar. 14.
- Cap-spinning device. G. N. Goddard. No. 1,434,003; Oct. 31.
- Cap-spinning frames. J. H. Jones. No. 1,416,356; May 16.
- Cap structure, Mucilage. R. R. Ritz. No. 1,405,442; Feb. 7.
- Cap visor and lamp support. B. J. Schwarz, N. Forister, and A. Hirt. No. 1,428,453; Sept. 5.
- Capping machine. G. Lochhead. No. 1,439,673; Dec. 19.
- Capping machine. H. E. Townsend. No. 1,407,448; Feb. 21.
- Cappings melter. K. Hawkins. No. 1,439,164; Dec. 19.
- Caps for mining and military purposes, Manufacture of detonating. W. Freiderich. No. 1,424,462; Aug. 1.
- Caps, Lamp holder for miners'. H. Davis. No. 1,435,817; Nov. 14.
- Capillary attraction between structural elements, Means for limiting. F. J. Jackson. No. 1,429,351; Sept. 19.
- Capstan. A. A. Coyle and W. S. Mitchell. No. 1,424,990; Aug. 8.
- Capstan. S. P. Griffin. No. 1,435,227; Nov. 14.
- Capsule-box container. J. G. K. Burnett. No. 1,436,475; Nov. 21.
- Capsule, Double. W. M. Deming. No. 1,419,618; June 13.
- Captive-ball practice device. C. F. Craig. No. 1,421,414; July 4.
- Car. W. A. Dorsey. No. 1,417,044; May 23.
- Car. R. R. Weaver. No. 1,428,196; Sept. 5.
- Car, air, and electric coupling. C. H. Tomlinson. No. 1,402,120; Jan. 3.
- Car-anchor. J. T. Gentry. No. 1,429,582; Sept. 19.
- Car and air coupling, Combined. H. E. van Dorn. No. 1,403,657; Jan. 17.
- Car and door-operating mechanism therefor, Dump. A. Campbell. No. 1,402,836; Jan. 10.
- Car and doors therefor. E. A. Alldredge. No. 1,432,146; Oct. 17.
- Car and electric coupling, Combined. T. R. Brown. No. 1,412,384; Apr. 11.
- Car and ladle therefor, Ladle. A. C. Nelson. No. 1,405,065; Jan. 31.
- Car and lorry front, Motor. A. Lamblin. No. 1,403,967; Jan. 17.
- Car and train-pipe coupling, Combination. O. Hebert. No. 1,426,732; Aug. 22.
- Car and truck construction, Railway. J. A. Pilcher. No. 1,406,076; Feb. 7.
- Car attachment, Motor-. D. W. Newberry. No. 1,402,883; Jan. 10.
- Car attachment, Side-. C. E. Cochran. No. 1,413,575; Apr. 25.
- Car-axle boxes, Dust guard for. J. H. Sharp. No. 1,407,587; Feb. 21.
- Car, Ballast. W. R. Scott. No. 1,418,402; June 6.
- Car bearing and axle, Mine-. J. C. Gaskill. No. 1,408,878; Mar. 7.
- Car block, Safety. L. E. Johnson. No. 1,403,166; Jan. 10.
- Car body, Convertible motor-. H. R. White. No. 1,420,298; June 20.
- Car body, Dump-. W. T. James. No. 1,403,084; Jan. 10.
- Car body, Freight. F. Luszczyzyn. No. 1,408,214; Feb. 28.
- Car bolster. E. A. Laughlin. No. 1,407,551; Feb. 21.
- Car bolster. W. J. Tangerman. No. 1,412,071; Apr. 11.
- Car bolster and making same. C. E. Bauer. No. 1,419,348; June 13.
- Car bolster and side bearing. A. E. Ostrander. No. 1,432,201; Oct. 17.
- Car brake. F. P. Beverly and C. Caldwell. No. 1,430,487; Sept. 26.
- Car brake. R. Z. Farmer and G. S. Marsh. No. 1,416,181; May 16.
- Car brake. W. H. Grow. No. 1,430,501; Sept. 26.
- Car brake. A. F. Kiasing. Nos. 1,420,552-3; June 20.
- Car brake. R. H. Minich. No. 1,416,371; May 16.
- Car brake. J. Taylor. No. 1,415,730; May 9.
- Car brake, Mine-. S. J. Sprock and R. Dunn. No. 1,419,773; June 13.
- Car brake, Motor-. D. G. Macpherson. No. 1,426,753; Aug. 22.
- Car brake, Railway-. J. Buck. No. 1,436,008; Nov. 21.
- Car brakes, Apparatus for manipulating railway. A. F. Kiasing. No. 1,420,554; June 20.
- Car buffers, Yielding resistance unit for. R. D. Gallagher, jr. No. 1,423,522; July 25.
- Car, Camp. G. H. Curtiss. No. 1,437,172; Nov. 28.
- Car center brace, Side-. H. W. Miller. No. 1,403,049; Jan. 10.
- Car, Charging. F. Fiechl. No. 1,423,314; July 18.
- Car-closing device, Freight-. T. J. Callery. No. 1,405,485; Feb. 7.
- Car, Coal. A. Leu. No. 1,418,722; June 6.
- Car, Combination center and side dump. J. O. Neikirk. No. 1,405,149; Jan. 31.
- Car, Compartment freight. A. H. Smith. Nos. 1,407,593-4; Feb. 21.
- Car compartments, Fastening for freight-. A. H. Smith. No. 1,406,294; Feb. 14.
- Car connections, Gear for. P. Parke. No. 1,431,750; Oct. 10.
- Car construction. A. Campbell. No. 1,437,091; Nov. 28.
- Car construction. J. O. Neikirk. No. 1,405,544; Feb. 7.
- Car construction. J. A. Pilcher. No. 1,437,441; Dec. 5.
- Car construction, Freight-. C. Peck. No. 1,428,448; Sept. 5.
- Car construction, Railway-. J. Horrigan and E. N. Walsh. No. 1,403,323; Jan. 10.
- Car construction, Railway-. W. J. Hosceit. No. 1,411,275; Apr. 4.
- Car construction, Refrigerator-. E. R. Viberg. No. 1,410,277; Mar. 21.
- Car, Container. T. A. Biggs. No. 1,432,151; Oct. 17.
- Car control and air-brake equipment, Safety. G. Macloskie. No. 1,426,893; Aug. 22.
- Car control and air-brake equipment, Safety. G. Macloskie and C. A. Ives. No. 1,419,873; June 13.
- Car control device, Safety. E. H. Dewson. No. 1,414,073; Apr. 25.
- Car-control equipment, Safety-. C. C. Farmer. No. 1,403,757; Jan. 17.
- Car-control equipment, Safety. C. C. Farmer. No. 1,417,238; May 23.
- Car-control equipment, Safety. G. Macloskie. No. 1,421,796; July 4.
- Car. Controllable self-discharging railway hopper. N. C. A. Carlquist. No. 1,408,984; Mar. 7.
- Car, Convertible. D. Hindahl. No. 1,402,422; Jan. 3.
- Car, Convertible. W. J. Hosceit. No. 1,402,424; Jan. 3.
- Car, Convertible dump. D. Hindahl. No. 1,416,711; May 23.
- Car, Convertible stock. A. Campbell. No. 1,433,731; Oct. 31.
- Car, Convertible stock and freight. J. Edman. No. 1,436,487; Nov. 21.
- Car coupling. H. M. Brown. No. 1,429,186; Sept. 12.
- Car coupling. H. J. Daubert. No. 1,403,295; Jan. 10.
- Car coupling. J. H. Funk. No. 1,418,784; June 6.
- Car coupling. F. W. H. Hamann. No. 1,423,796; July 25.
- Car coupling. R. E. L. Janney. No. 1,404,965; Jan. 31.
- Car coupling. G. Krum. No. 1,426,652; Aug. 22.
- Car coupling. R. H. Lowe. No. 1,432,728; Oct. 17.
- Car coupling. T. E. McCarthy. No. 1,416,368; May 16.
- Car coupling. W. McConway, Jr. No. 1,404,872; Jan. 31.
- Car coupling. L. and F. Pignani. No. 1,403,193; Jan. 10.
- Car coupling, Automatic. B. L. Baldwin. No. 1,418,861; June 6.
- Car coupling, Automatic railway. A. Bernardi. No. 1,419,009; June 6.
- Car-coupling knuckle. O. H. di Le Compte. No. 1,421,421; July 4.
- Car-coupling mechanism, Electrically-operated. O. Horak. No. 1,414,187; Apr. 25.
- Car-coupling release rigging. G. E. Murray. No. 1,422,293; July 11.
- Car-coupling uncoupling mechanism. T. J. Burns. No. 1,407,925; Feb. 28.
- Car couplings, Centering device for. W. P. Murphy. No. 1,415,463; May 9.
- Car couplings, Knuckle-guiding attachment for. J. H. Funk. No. 1,407,402; Feb. 21.
- Car couplings, Pipe-coupling attachment for. J. H. Funk. No. 1,408,351; Feb. 28.
- Car couplings, Uncoupling device for. J. R. Scott. No. 1,408,833; Mar. 7.
- Car couplings, Uncoupling lever for. G. G. Gilpin. No. 1,411,489; Apr. 4.
- Car diaphragm and face-plate safety guard, Metal. J. J. Tatum. No. 1,431,707; Oct. 10.
- Car-dome cover, Tank-. M. A. Garrett. No. 1,405,577; Feb. 7.
- Car door. E. Christenson. No. 1,430,056; Sept. 26.
- Car door. C. M. Cooper. No. 1,420,969; June 27.
- Car door. G. Donahue. No. 1,423,200; July 18.
- Car door. J. A. Gibson. No. 1,438,034; Dec. 5.
- Car door. F. Hidock. No. 1,435,844; Nov. 14.
- Car door. F. Jager. No. 1,427,901; Sept. 5.
- Car door. J. J. Legg. No. 1,409,957; Mar. 21.
- Car door. T. Rubin. No. 1,440,107; Dec. 26.
- Car door. A. Sellgren. No. 1,427,915; Sept. 5.
- Car door. W. E. Wine. No. 1,433,324; Oct. 24.
- Car-door-actuating mechanism. W. N. McClellan. (Re-issue.) No. 15,338; Apr. 18.
- Car door and brake control device. C. C. Farmer. No. 1,408,874; Mar. 7.
- Car door and brake control equipment. C. C. Farmer. No. 1,410,289; Mar. 21.
- Car door and brake controlling device. C. C. Farmer. No. 1,415,821; May 9.
- Car-door arrangement. J. A. Pilcher. No. 1,434,145; Oct. 31.
- Car-door arrangement. W. E. Wine. No. 1,431,506; Oct. 10.
- Car-door arrangement. W. E. Wine. No. 1,431,509; Oct. 10.
- Car door, Box-. O. Froman and W. A. Wilmoth. No. 1,424,812; Aug. 8.
- Car-door construction. F. Jager. No. 1,430,555; Oct. 3.
- Car-door control and air-brake equipment, Combined. C. A. Ives. No. 1,431,461; Oct. 10.

Alphabetical list of inventions—Continued.

- Car-door control and air-brake equipment, Combined. G. Macloskie and C. A. Ives. No. 1,431,477; Oct. 10.
 Car-door device. B. W. Kadel. No. 1,434,123; Oct. 31.
 Car-door device. W. E. Wine. No. 1,436,927; Nov. 28.
 Car door, Freight-. L. Franklin. No. 1,424,292; Aug. 1.
 Car door, Freight-. J. L. Guerrant. No. 1,407,064; Feb. 21.
 Car door, Freight-. J. Lyons. No. 1,404,622; Jan. 24.
 Car door, Grain-. J. L. Guerrant. No. 1,410,565; Mar. 28.
 Car door, Grain-. B. W. Heitz. No. 1,440,077; Dec. 26.
 Car door, Grain-. J. Siemsen. No. 1,421,592; July 4.
 Car door, Grain-. A. C. Watson. No. 1,415,746; May 9.
 Car door, Grain-. H. W. Wolf. No. 1,433,058; Oct. 24.
 Car door, Hopper-. W. P. Murphy. No. 1,425,210; Aug. 8.
 Car-door lock. N. Hill. No. 1,423,562; July 25.
 Car-door lock. J. C. Lemelin. No. 1,436,509; Nov. 21.
 Car-door lock. E. A. Mayhew. No. 1,431,171; Oct. 10.
 Car-door lock. J. D. McQuiston. No. 1,422,589; July 11.
 Car-door lock. W. S. Sikes. No. 1,425,799; Aug. 15.
 Car-door lock. W. E. Wine. No. 1,431,499; Oct. 10.
 Car-door lock. W. E. Wine. No. 1,434,177; Oct. 31.
 Car-door lock. W. E. Wine. No. 1,440,259; Dec. 26.
 Car-door lock and opener, Combined. A. T. Kuehner. No. 1,428,785; Sept. 12.
 Car-door locking and supporting device. W. E. Wine. No. 1,433,323; Oct. 24.
 Car-door-locking device. F. Bergwall. No. 1,434,523; Nov. 7.
 Car-door-locking device. H. Dulz. No. 1,439,357; Dec. 19.
 Car-door-locking device. W. E. Wine. No. 1,431,500; Oct. 10.
 Car-door-locking device. W. E. Wine. Nos. 1,431,502-3; Oct. 10.
 Car-door-locking device. W. E. Wine and W. F. Cremean. No. 1,433,057; Oct. 24.
 Car-door-locking device. W. E. Wine. No. 1,440,260; Dec. 26.
 Car-door-locking hook. W. E. Wine. No. 1,431,501; Oct. 10.
 Car-door-locking mechanism. A. Campbell. Nos. 1,417,494-5; May 30.
 Car-door mechanism. H. T. Anderson. No. 1,402,995; Jan. 10.
 Car-door mechanism. B. W. Kadel. No. 1,434,954; Nov. 7.
 Car-door mechanism. W. E. Wine. No. 1,434,977; Nov. 7.
 Car-door opener, Automatic mine-. F. Szemanske. No. 1,414,760; May 2.
 Car-door opener, Grain-. I. B. White. No. 1,418,343; June 6.
 Car-door openings, Closure for. L. Benjamin. No. 1,413,702; Apr. 25.
 Car-door-operating device. W. E. Moore. No. 1,405,315; Jan. 31.
 Car-door-operating mechanism. J. T. Geoghegan. No. 1,432,240; Oct. 17.
 Car-door-operating mechanism. A. Gottschalk. No. 1,424,814; Aug. 8.
 Car-door-operating mechanism. W. J. Hosceit. No. 1,430,378; Sept. 26.
 Car door, Railway. P. Arnold. No. 1,435,784; Nov. 14.
 Car door, Railway. W. Salmon. No. 1,415,484; May 9.
 Car door, Stock-. R. L. Smith. No. 1,421,105; June 27.
 Car-door top guide. P. M. Elliott. No. 1,421,431; July 4.
 Car doors, Fastener for mine-. J. Wysock. No. 1,409,635; Mar. 14.
 Car doors, Hanger for. C. L. Jennette. No. 1,437,759; Dec. 5.
 Car doors, Locking device for hopper-. W. E. Wine. No. 1,431,507; Oct. 10.
 Car, Drier. C. H. Klein. No. 1,416,091; May 16.
 Car drivers, Eye shade for motor-. G. W. Wells. No. 1,437,208; Nov. 28.
 Car, Drop-end gondola. V. E. Sisson. No. 1,407,824; Feb. 28.
 Car, Dump. H. S. Hart. No. 1,425,767; Aug. 15.
 Car, Dump. W. H. Miner. No. 1,402,172; Jan. 3.
 Car, Dump. W. P. Murphy. No. 1,406,274; Feb. 14.
 Car dump. G. N. and A. M. Simpson. No. 1,412,030; Apr. 4.
 Car, Dump. G. H. Stebbins. No. 1,413,946; Apr. 25.
 Car dump, Rotary. J. P. Mosier. No. 1,424,510; Aug. 1.
 Car dumper. A. F. Case. No. 1,407,926; Feb. 28.
 Car dumper. A. F. Case. No. 1,439,866; Dec. 26.
 Car dumper. R. J. Crossett. No. 1,437,962; Dec. 5.
 Car dumper. D. M. Harris and J. W. Bair. No. 1,435,708; Nov. 14.
 Car-dumper cradles, Car blocking for. A. F. Case. No. 1,427,090; Aug. 29.
 Car, Dumping-. C. H. Clark. No. 1,437,745; Dec. 5.
 Car, Dumping-. C. A. Griffith. No. 1,426,729; Aug. 22.
 Car, Dumping-. G. Immand. No. 1,432,755; Oct. 24.
 Car, Dumping-. A. Kassler. No. 1,415,097; May 9.
 Car, Dumping-. P. Krüger. No. 1,423,121; July 18.
 Car-dumping apparatus. W. R. Coleman. No. 1,428,005; Sept. 5.
 Car, Electric motor. H. Lübeck. No. 1,414,292; Apr. 25.
 Car, Electric trolley. C. H. Copley. No. 1,417,502; May 30.
 Car end. T. N. Russell. No. 1,414,157; Apr. 25.
 Car-end construction. F. M. Whyte. No. 1,408,234; Feb. 28.
 Car end, Corrugated-sheet-metal. W. P. Murphy. No. 1,422,881; July 18.
 Car end, Metal. I. A. Seiders. No. 1,431,333; Oct. 10.
 Car end, Reinforced. K. M. Hamilton. No. 1,411,349; Apr. 4.
 Car end, Reinforced. J. McMullen. No. 1,412,210; Apr. 11.
 Car end, Reinforced wood box. W. H. Miner. No. 1,432,198; Oct. 17.
 Car end reinforcement. W. H. Stifnagle. No. 1,432,218; Oct. 17.
 Car end, Sheet-metal. E. W. Test. No. 1,406,701; Feb. 14.
 Car end, Sheet metal. E. W. Test. No. 1,408,657; Mar. 7.
 Car-end wall structure, Reinforced. C. D. Bonsall. No. 1,422,823; July 18.
 Car-enumerating device. M. S. Phillips. No. 1,421,023; June 27.
 Car fender or guard. C. F. Richardson and M. S. Ferguson. No. 1,424,590; Aug. 1.
 Car for operating inclines, Cable-operated. H. W. Sessoms. No. 1,412,575; Apr. 11.
 Car for pleasure railways. H. E. Riehl. No. 1,404,143; Jan. 17.
 Car, Freight. M. J. Whelan. No. 1,421,637; July 4.
 Car, General-service railway. O. Hochberg. No. 1,405,415; Feb. 7.
 Car, Gondola. V. E. Sisson and A. H. Feters. No. 1,411,940; Apr. 4.
 Car, Grain. W. J. Robider. No. 1,422,133; July 11.
 Car, Grain. J. W. Wingert. No. 1,434,517; Nov. 7.
 Car heater. W. J. Smith. No. 1,439,717; Dec. 26.
 Car heater, Tank-. W. B. Smith. No. 1,412,756; Apr. 11.
 Car heaters, Control valve for motor-. C. S. Pelton. No. 1,437,910; Dec. 5.
 Car-heating system, Automatically-controlled. H. G. Geissinger. No. 1,439,362; Dec. 19.
 Car-heating system, Electric. F. Thornton, jr. No. 1,433,758; Oct. 31.
 Car-heating systems, Controlling mechanism for. H. G. Geissinger. No. 1,404,359; Jan. 24.
 Car-holding ratchet. C. W. Watkins. No. 1,409,264; Mar. 14.
 Car hopper, Freight-. A. T. Kuehner. No. 1,412,660; Apr. 11.
 Car, Hot-metal. A. C. Nelson and E. J. Reilly. No. 1,438,661; Dec. 12.
 Car journal. A. Melville. No. 1,426,895; Aug. 22.
 Car, Knockdown passenger. W. Voss. No. 1,432,223; Oct. 17.
 Car-lifting device. H. Leno. Nos. 1,409,456-7; Mar. 14.
 Car-lighting system. B. M. Coffee. No. 1,436,697; Nov. 28.
 Car-lighting system. G. F. Smith. No. 1,417,696; May 30.
 Car-lighting system. G. F. Smith. No. 1,433,749; Oct. 31.
 Carline. J. E. Tesseyman and T. N. Russell. No. 1,428,403; Sept. 5.
 Carline construction. J. W. Bernbaum. No. 1,428,354; Sept. 5.
 Car-loading apparatus. D. L. Calahan. No. 1,424,279; Aug. 1.
 Car-loading device, Tank-. E. H. Rudolph. No. 1,424,037; July 25.
 Car-loading machine. J. F. Joy. No. 1,411,702; Apr. 4.
 Car lock, Freight-. A. Kline. No. 1,424,168; Aug. 1.
 Car member, Sheet-metal. E. I. Dodds. No. 1,415,022; May 9.
 Car, Metal. E. E. Slick. (Reissue). No. 15,340; Apr. 18.
 Car, Mine. E. L. Bailey. No. 1,417,131; May 23.
 Car, Mine. W. A. Dorsey. No. 1,417,043; May 23.
 Car, Mine. D. C. Mulvihill. No. 1,408,767; Mar. 7.
 Car, Mine. C. Scholz. No. 1,428,985; Sept. 12.
 Car, Mine. G. E. Thackray. No. 1,414,056; Apr. 25.
 Car, Mining. W. Kirchman. No. 1,417,834; May 30.
 Car, Motor-cycle side. W. E. Morton. No. 1,437,115; Nov. 28.
 Car mounting. E. H. Laughlin. No. 1,402,625; Jan. 3.
 Car mover. F. V. Carman. No. 1,408,561; Mar. 7.
 Car mover. P. Frantsits. No. 1,438,818; Dec. 12.
 Car mover. O. Westling. No. 1,412,153; Apr. 11.
 Car, Pivoted-bunk logging. H. C. Jarvis. No. 1,415,357; May 9.
 Car pusher. H. D. Lillbridge. No. 1,413,669; Apr. 25.
 Car pusher. R. A. McCune. No. 1,410,022; Mar. 21.
 Car pusher. B. F. Schmidt and T. D. Heyl. No. 1,416,755; May 23.
 Car, Railway. G. W. Bird. No. 1,435,198; Nov. 14.
 Car, Railway. F. W. Chriswell. No. 1,406,345; Feb. 14.
 Car, Railway. W. F. Cremean. (Reissue). No. 15,360; May 23.
 Car, Railway. G. E. Knepper. No. 1,429,745; Sept. 19.
 Car, Railway. W. P. Murphy. No. 1,404,469; Jan. 24.
 Car, Railway. J. O. Neikirk. No. 1,424,770; Aug. 8.
 Car, Railway. J. A. Pilcher. No. 1,433,096; Oct. 24.
 Car, Railway. H. W. Sanford. No. 1,438,787; Dec. 12.
 Car, Railway. A. H. Smith. No. 1,432,421; Oct. 17.
 Car, Railway. W. E. Wine. No. 1,434,178; Oct. 31.
 Car, Railway baggage or general-goods. L. Huwylér. No. 1,419,675; June 13.
 Car, Railway shower-bath. G. A. Schmidt. No. 1,410,607; Mar. 28.
 Car, Refrigerator. J. M. Coleman. No. 1,402,571; Jan. 3.
 Car, Refrigerator. L. W. Collins. No. 1,421,913; July 4.
 Car, Refrigerator. L. L. Yates. No. 1,439,214; Dec. 19.
 Car replacer. A. N. Lyberger. No. 1,418,388; June 6.

- Car replacer. W. A. Riddell. No. 1,409,970; Mar. 21.
 Car rerailer. H. E. Brittenburg. No. 1,409,920; Mar. 21.
 Car roof. H. A. Christy. No. 1,412,450; Apr. 11.
 Car roof. J. L. Mohun. No. 1,429,961; Sept. 26.
 Car roof. W. P. Murphy. No. 1,418,959; June 6.
 Car roof. T. N. Russell. No. 1,410,513; Mar. 21.
 Car roof. W. H. Slatten. No. 1,428,989; Sept. 12.
 Car safety gate. J. A. Brooks. No. 1,423,303; July 18.
 Car, Sanitary creeper. J. N. O'Connor. No. 1,432,612; Oct. 17.
 Car sash, Ball-bearing. O. P. McLendon and H. G. Smith. No. 1,424,502; Aug. 1.
 Car, Scooter. W. Bunde. No. 1,423,994; July 25.
 Car, Scrubbing. V. D. Phelps and L. Molyneux. No. 1,402,649; Jan. 3.
 Car seal. C. W. Champlin. No. 1,420,968; June 27.
 Car seal. G. Sandifer. No. 1,436,200; Nov. 21.
 Car seat. A. L. Lambert. No. 1,411,791; Apr. 4.
 Car seat. T. D. Owler and H. S. Gordon. No. 1,429,368; Sept. 19.
 Car-seat construction. F. Andrusyszyn. No. 1,423,508; July 25.
 Car seat structure. B. Schechter. No. 1,412,139; Apr. 11.
 Car, Self-discharging. K. Barth. No. 1,410,154; Mar. 21.
 Car, Self-discharging. K. Barth. No. 1,421,378; July 4.
 Car, Self-discharging. K. Barth. No. 1,428,131; Sept. 5.
 Car, Self-discharging. G. Immand. No. 1,421,482; July 4.
 Car, Self-discharging. R. Lorenz. No. 1,427,539; Aug. 29.
 Car, Self-discharging. C. Schütz. No. 1,403,713; Jan. 17.
 Car, Self-discharging. W. Winter and G. Immand. No. 1,429,056; Sept. 12.
 Car, Self-propelled railway. A. W. Lieberman. No. 1,411,363; Apr. 4.
 Car, Self-unloading. K. Barth. No. 1,408,334; Feb. 28.
 Car, Side-dump. C. H. Clark. No. 1,403,843; Jan. 17.
 Car sides, Portable appliance for cleaning. J. M. Wilson. No. 1,411,949; Apr. 4.
 Car steering wheel, Motor-. A. A. Boggs. No. 1,410,159; Mar. 21.
 Car step. C. Lovelace and A. D. Fousha. No. 1,403,125; Jan. 10.
 Car step. C. E. Porter. No. 1,415,699; May 9.
 Car step, Auxiliary. P. Swanson and A. Carlson. No. 1,425,149; Aug. 8.
 Car step, Foldable or extensible. J. Q. Slye. No. 1,407,592; Feb. 21.
 Car steps. H. Brown. No. 1,404,189; Jan. 24.
 Car stop, Automatic. N. H. Hale. No. 1,403,116; Jan. 10.
 Car stop or chock, Portable. R. D. Gallagher. No. 1,439,089; Dec. 19.
 Car storm shield, Closed-. C. F. Green. No. 1,430,897; Oct. 3.
 Car structure. C. C. Hahland and D. McHugh. No. 1,434,490; Mar. 21.
 Car, Tank. A. M. Nelson. No. 1,429,685; Sept. 19.
 Car, Tank. A. E. Smith. No. 1,431,703; Oct. 10.
 Car, Tank. A. E. Smith. No. 1,432,497; Oct. 17.
 Car, Tip. A. Fouchy. No. 1,409,694; Mar. 14.
 Car tip and dumping apparatus. C. Helmick. No. 1,408,941; Mar. 7.
 Car tippie, Rotary. A. H. Wood. No. 1,426,027; Aug. 15.
 Car, train pipe, and electric coupling, Automatic. W. V. Turner. No. 1,430,703; Oct. 3.
 Car, Transfer. W. W. Wallace. No. 1,416,589; May 16.
 Car truck. S. B. Brillhart. No. 1,408,167; Feb. 28.
 Car truck. S. B. Brillhart. No. 1,417,135; May 23.
 Car truck. E. W. Webb. No. 1,407,452; Feb. 21.
 Car truck. C. T. Westlake. No. 1,410,979; Mar. 28.
 Car truck, Railway-. G. A. Boyden, Jr., and J. C. Boyden. No. 1,414,497; May 2.
 Car truck, Railway-. O. H. Wellman. No. 1,408,321; Feb. 28.
 Car trucks, Generator drive mechanism for. B. D. Negratto. No. 1,410,949; Mar. 28.
 Car uncoupling. R. R. Hawk. No. 1,439,888; Dec. 26.
 Car underframe. R. R. Weaver. No. 1,420,352; June 20.
 Car unit, Interchangeable. A. H. Smith. No. 1,403,413; Feb. 28.
 Car units, Anchoring means for interchangeable. A. H. Smith. No. 1,403,414; Feb. 28.
 Car unloader, Box-. A. E. Johnson. No. 1,420,431; June 20.
 Car-unloading apparatus. P. W. Holstein. No. 1,412,869; Apr. 18.
 Car-unloading device, Freight-. E. M. Butler. No. 1,402,475; Jan. 3.
 Car wall construction, Railway-. H. C. Manchester. No. 1,410,697; Mar. 28.
 Car wall construction, Railway-. W. O. Thompson. No. 1,410,778; Mar. 28.
 Car washer. A. A. Wright. No. 1,411,321; Apr. 4.
 Car water-closet, Railway-. W. Frank. No. 1,422,953; July 18.
 Car wheel. J. H. Blake. No. 1,413,385; Apr. 18.
 Car wheel. A. L. Carroll. No. 1,431,370; Oct. 10.
 Car wheel. H. R. Kethley. No. 1,412,617; Apr. 11.
 Car wheel. W. F. Scherer. No. 1,411,874; Apr. 4.
 Car wheel. T. W. Williams. No. 1,423,381; July 18.
 Car wheel. C. S. Zabriskie. No. 1,421,653; July 4.
 Car wheel, Adjustable. J. Sweeney. No. 1,413,072; Apr. 18.
 Car-wheel-boring machine. W. T. Sears. No. 1,422,140; July 11.
 Car-wheel jacks, Base block for. R. O. White. No. 1,430,776; Oct. 3.
 Car wheel, Mine-. C. Malt. No. 1,417,085; May 23.
 Car-wheel-rerailing block. W. Matney. No. 1,404,877; Jan. 31.
 Car wheel, Self-lubricating. J. M. Slaughter. No. 1,434,233; Oct. 31.
 Car wheels, Apparatus for making drop-forged steel. C. R. Jernberg. No. 1,408,702; Mar. 7.
 Car wheels, Safety fender for. F. K. Cochran. No. 1,416,610; May 16.
 Car wheels, Washer for mine-. R. F. Phillips and L. J. McCloskey. No. 1,423,877; July 25.
 Car-window-cleaning device. P. A. Benkiser. No. 1,431,357; Oct. 10.
 Car-window sash. C. N. Ilseng. No. 1,430,809; Oct. 3.
 Cars adapted to operate as road vehicles, Double-tread wheel for rail. A. H. Leipert. No. 1,408,813; Mar. 7.
 Cars, Adjustable hook for refrigerator. B. Winger. No. 1,405,745; Feb. 7.
 Cars and other vehicles, Rim for the wheels of motor. W. W. McRae. No. 1,420,329; June 20.
 Cars and other vehicles, Wind screen of motor. M. Eyquem. No. 1,430,963; Oct. 3.
 Cars and similar vehicles, Brake-operating mechanism for street. J. S. McWhirter. No. 1,409,226; Mar. 14.
 Cars and the like, Device for preventing the theft of motor. W. Romeiser and L. Schiff. No. 1,428,450; Sept. 5.
 Cars and the like, Radiator for motor. A. Lamblin. No. 1,430,170; Sept. 26.
 Cars and the like, Underframe or chassis for cycle side. M. M. Peters. No. 1,424,588; Aug. 1.
 Cars, Antinosing device for railway. M. Linton. No. 1,408,371; Feb. 28.
 Cars, Automatic coupling device for railway. C. A. M. Ribera and F. A. Serre. No. 1,427,759; Aug. 29.
 Cars, Bail for timber. J. C. Cook and H. E. Austin. No. 1,428,474; Sept. 5.
 Cars, Brake release spring mechanism for tram and the like. H. Leah. No. 1,421,697; July 4.
 Cars, Braking mechanism for the front wheels of motor. M. Adenot. No. 1,437,080; Nov. 28.
 Cars, Buffer device for. S. G. H. Orell. No. 1,410,377; May 16.
 Cars, Buffer for amusement. C. F. Stillman. No. 1,420,065; June 20.
 Cars, Card holder for railway. A. E. Sopp. No. 1,416,072; May 16.
 Cars, Center bearing for. A. M. Brenne. No. 1,431,284; Oct. 10.
 Cars, Check holder for mine. J. E. Whewell and H. I. Yoder. No. 1,417,006; May 23.
 Cars, Clutch-pedal-locking device for Ford. J. P. Lechrone. No. 1,425,989; Aug. 15.
 Cars, Construction for loading automobiles in freight. A. Copony. (Reissue.) No. 15,500; Dec. 5.
 Cars, Coupling for mining. F. W. and W. J. Fries. No. 1,439,158; Dec. 19.
 Cars, Device for controlling the exhaust of motor. E. Cassalette. No. 1,405,900; Feb. 7.
 Cars, Device for mounting headlights on bodies of motor. A. Vallot. No. 1,408,149; Feb. 28.
 Cars, Device for opening and closing the hoods of motor. A. Oelsner. No. 1,437,351; Nov. 28.
 Cars, Dome cover for tank. A. B. Caril. No. 1,432,591; Oct. 17.
 Cars, Dome head for tank. J. W. Steinmeyer. No. 1,432,216; Oct. 17.
 Cars, Door arrangement for railway. W. E. Wine. No. 1,433,056; Oct. 24.
 Cars, Door device for railway. W. E. Wine. No. 1,431,508; Oct. 10.
 Cars, Door for grain. G. L. Redshaw. No. 1,406,894; Feb. 14.
 Cars, Door mechanism for railway. B. W. Kadel. No. 1,434,953; Nov. 7.
 Cars, Door mechanism for railway. W. E. Wine. No. 1,431,505; Oct. 10.
 Cars, Door-space closure for freight. J. W. Rusch. No. 1,409,589; Mar. 14.
 Cars, Doorway control or gate for use in railway. T. Elliott. No. 1,413,840; Apr. 25.
 Cars, Draft arm for railway. C. J. Nash. No. 1,408,768; Mar. 7.
 Cars, Draft gear for railway. R. D. Gallagher, Jr. No. 1,419,669; June 13.
 Cars, Electrically-controlled door lock for. R. H. Parsons. No. 1,405,623; Feb. 7.
 Cars, Emergency bearing for railway. F. Mehlis. No. 1,422,596; July 11.
 Cars, Emergency draft gear for railway. G. G. Floyd. No. 1,434,811; Nov. 7.
 Cars, Emergency structure for railway. H. W. Lindsey. No. 1,417,185; May 23.
 Cars, End-gate raiser for mine. Z. Grass. No. 1,407,329; Feb. 21.
 Cars, End plate for freight. A. G. Sandman. No. 1,426,222; Aug. 15.
 Cars, End reinforcement for box. C. W. Court. No. 1,432,969; Oct. 24.
 Cars, End reinforcement for railway. V. E. Sisson. No. 1,428,614; Sept. 12.

Alphabetical list of inventions—Continued.

- Cars, End reinforcement for railway box. C. D. Bonsall. No. 1,432,956; Oct. 24.
- Cars, End structure for railway. W. P. Murphy. No. 1,432,886; Oct. 24.
- Cars, especially mine locomotives, Worm drive for electric. G. Müller. No. 1,421,534; July 4.
- Cars, Extension-step construction for. G. C. Rosson and H. B. Porter. No. 1,432,624; Oct. 17.
- Cars, Feeding mechanism for mine. G. M. Johnson. No. 1,408,088; Feb. 28.
- Cars, Friction driving gear for motor. A. G. Grice. No. 1,409,946; Mar. 21.
- Cars, Frictional draft gear for railway. A. C. Mather. No. 1,427,309; Aug. 29.
- Cars, Fuel lock for motor. L. A. Kennedy. No. 1,403,086; Jan. 10.
- Cars, Grain door for railway. E. Passon. No. 1,413,354; Apr. 18.
- Cars, Guard lookout station for railway. F. Hedley and J. S. Doyle. No. 1,413,913; Apr. 25.
- Cars, Handbrake for railway. A. Barraclough. No. 1,436,836; Nov. 28.
- Cars, Handbrake for railway. S. J. Strid. No. 1,403,209; Jan. 10.
- Cars, Hatch cover for refrigerator. A. G. Sandman. No. 1,422,139; July 11.
- Cars, Heating apparatus for refrigerator. E. A. Schreiber. No. 1,404,901; Jan. 31.
- Cars, Heating system for motor. J. F. Geisendorfer. No. 1,425,377; Aug. 8.
- Cars, Heating system for railway. E. E. Gold and W. H. Ivers. No. 1,402,063; Jan. 3.
- Cars, Heating system for sleeping. E. H. Gold. No. 1,404,360; Jan. 24.
- Cars, Indicating and manhole-locking safety valve for tank. C. L. Burnham. No. 1,418,530; June 6.
- Cars in mines, Method of and means for locomotive transportation of coal. J. F. Joy. No. 1,429,145; Sept. 12.
- Cars, Irreversible steering gear for Ford. G. A. Schipper. No. 1,418,679; June 6.
- Cars, Leading truck for railway motor. A. F. Masury and L. C. Josephs, Jr. No. 1,423,238; July 18.
- Cars, Lifting iron for motor. C. A. Rofe. No. 1,421,993; July 4.
- Cars, Load-carrying attachment for motor. J. Gulle. No. 1,418,438; June 6.
- Cars, Machine for automatically loading bricks on pallets into rack-drier. C. H. Klein. No. 1,427,825; Sept. 5.
- Cars, Machine for loading cotton bales in. E. L. Barnes. No. 1,404,335; Jan. 24.
- Cars, Making clutch rings for motor. T. C. Stanley. No. 1,420,883; June 27.
- Cars, Means for applying gear transmission to Ford. H. B. M. Callum and G. S. Hollister. No. 1,410,163; Mar. 21.
- Cars, Means for holding removable bodies on freight. B. F. Fitch. No. 1,437,964; Dec. 5.
- Cars, Means for unloading. A. R. Sackett. No. 1,412,316; Apr. 11.
- Cars, Means for warming the radiators of motor. P. Elphick. No. 1,433,358; Oct. 24.
- Cars, Metal end construction for freight. H. E. Van Dorn. No. 1,412,072; Apr. 11.
- Cars, Metal end for freight. V. E. Sisson. No. 1,439,195; Dec. 19.
- Cars, Metal end structure for railway. W. P. Murphy. No. 1,410,710; Mar. 28.
- Cars, Metal framing or end reinforcement for railway. G. G. Gilpin. No. 1,430,544; Oct. 3.
- Cars, Metal window screen for railway. W. W. Watson. No. 1,408,849; Mar. 7.
- Cars, motor boats, and flying machines, Automatically-acting safety device for use in connection with carburetors of motor. E. Teubner. No. 1,408,233; Feb. 28.
- Cars, Newspaper box for street. C. D. O'Rourke. No. 1,412,417; Apr. 11.
- Cars of pleasure vehicles, Draft means for the. H. E. Riehl. No. 1,404,144; Jan. 17.
- Cars of the dumping-car type, Door for railway. J. Craig. No. 1,420,971; June 27.
- Cars of the dumping type, Cast-metal door for railway. W. P. Murphy. No. 1,432,887; Oct. 24.
- Cars of the dumping type, Corrugated-sheet-metal door for railway. G. G. Gilpin. No. 1,433,270; Oct. 24.
- Cars of the dumping type, Corrugated-sheet-metal door for railway. G. G. Gilpin. No. 1,433,811; Oct. 31.
- Cars of the dumping type, Reinforced door for railway. G. G. Gilpin and W. P. Murphy. No. 1,436,310; Nov. 21.
- Cars, Oil-test-cock-operating means for Ford. R. D. McBrien. No. 1,420,119; June 20.
- Cars or similar vehicles, Life guard for street. F. N. Root. No. 1,414,435; May 2.
- Cars, Outlet device for grain. H. G. Ferguson. No. 1,410,743; Mar. 28.
- Cars, Pliers and locking lug for replacing transmission covers on Ford. L. Ullman. No. 1,407,362; Feb. 21.
- Cars, Pull mechanism for railway. C. V. Rote. No. 1,428,983; Sept. 12.
- Cars, Rerailer for street. J. S. Shurman. No. 1,404,661; Jan. 24.
- Cars, Roof brace for box. J. M. Coleman and K. F. Nyström. No. 1,438,293; Dec. 12.
- Cars, Roof construction for freight. P. Salata. No. 1,417,573; May 30.
- Cars, Running-board guard rail for freight. L. L. Schellinger. No. 1,411,938; Apr. 4.
- Cars, Running gear for mining. R. D. Scott and J. G. Cadwell. No. 1,403,872; Jan. 17.
- Cars, Safety appliance for mining. A. M. Shandor. No. 1,431,697; Oct. 10.
- Cars, Safety appliance for street. D. O. Shively. No. 1,425,062; Aug. 8.
- Cars, Safety door for freight. Z. Slawinski. No. 1,406,095; Feb. 7.
- Cars, Sheet-steel end structure for railway. P. H. Truman and V. E. Sisson. No. 1,432,928; Oct. 24.
- Cars, Shock-absorbing road wheel for motor. T. L. Courtney. No. 1,435,051; Nov. 7.
- Cars, Shock-absorbing wheel for motor. T. L. Courtney. No. 1,430,949; Oct. 3.
- Cars, Side bearing for railway. E. Posson. No. 1,411,222; Mar. 28.
- Cars, Speed-control apparatus for railway. C. A. Richmond. No. 1,409,969; Mar. 21.
- Cars, Street-indicating apparatus for street. B. M. Cartwright. No. 1,435,696; Nov. 14.
- Cars, Street indicator for street. L. G. Scott. No. 1,404,720; Jan. 24.
- Cars, Supporting device for headlights of motor. M. J. B. Barbarou. No. 1,410,873; Mar. 28.
- Cars, Suspension means for motor. A. Deschamps. No. 1,416,797; May 23.
- Cars, Tandem draft gear for railway. M. J. Mendez. No. 1,427,491; Aug. 29.
- Cars, Top-chord construction for gondola. E. E. Schlesinger. No. 1,432,911; Oct. 24.
- Cars, Track brake for mine. J. F. Yeckel. No. 1,428,069; Sept. 5.
- Cars, Trolley pole for trackless trolley. E. L. Kraft. No. 1,411,849; Apr. 4.
- Cars, Trolley-pole holder for street. R. Regopulas. No. 1,408,534; Mar. 7.
- Cars, Uncoupling device for railway. G. A. Woodman. No. 1,421,351; June 27.
- Cars, Ventilator for. V. E. Sisson. No. 1,439,136; Dec. 19.
- Cars, Wind screen for motor. W. Pitkin. No. 1,427,630; Aug. 29.
- Cars, Winding shaft and chain guard for dump. O. L. Burford and H. De Bardeleben. No. 1,423,752; July 25.
- Carbide-discharging means. N. H. Hale. No. 1,438,595; Dec. 12.
- Carbide manufacture. A. E. Reid. No. 1,434,451; Nov. 7.
- Carbon and gas consumer. J. Flink. No. 1,440,348; Dec. 26.
- Carbon and making same, Decolorizing. R. W. Mumford. No. 1,402,007; Jan. 3.
- Carbon articles, Electroplating. V. C. Hamister. No. 1,403,903; Jan. 17.
- Carbon black and producing same. A. S. Cooper. No. 1,423,193; July 18.
- Carbon black, lampblack, and hydrogen, Manufacturing. H. J. Masson. No. 1,418,385; June 6.
- Carbon black, Process and apparatus for producing. C. Matlock. No. 1,438,542; Dec. 12.
- Carbon-centering, battery-tamping machine. J. Graves. No. 1,436,311; Nov. 21.
- Carbon-consuming means for coke ovens. J. van Ackeren. No. 1,410,783; Mar. 28.
- Carbon dioxide in gaseous mixtures, Apparatus for measuring. C. Van Brunt. No. 1,436,219; Nov. 21.
- Carbon for pigmental and other purposes, Manufacture of. J. Nelson. No. 1,414,482; May 2.
- Carbon monoxide, Apparatus for use with respirators for the detection of small quantities of. L. A. Levy. No. 1,414,194; Apr. 25.
- Carbon, Producing finely-divided. R. W. Poindexter. No. 1,402,957; Jan. 10.
- Carbon, Production of. W. E. F. Bradley. No. 1,426,144; Aug. 15.
- Carbon, Purifying. V. Lenher and F. M. Dorsey. No. 1,423,231; July 18.
- Carbon, Refining crude. C. F. C. Herting. No. 1,416,955; May 23.
- Carbon remover. J. F. Smerschnik. No. 1,430,033; Sept. 26.
- Carbon-scraping tool. D. A. Walters. No. 1,431,200; Oct. 10.
- Carbons, Making decolorizing. C. S. Hudson. No. 1,438,113; Dec. 5.
- Carbonaceous char, Making finely-divided. H. Rodman. No. 1,433,039; Oct. 24.
- Carbonaceous material for the recovery of the volatile hydrocarbon constituents thereof, Apparatus for treating. C. C. Bussey. Nos. 1,432,275-6; Oct. 17.
- Carbonaceous materials, Heating of vertical retorts for the distillation of. W. Wild. No. 1,427,426; Aug. 29.
- Carbonaceous materials, Method and apparatus for the distillation of. E. D. Deeter. No. 1,437,292; Nov. 28.
- Carbonaceous product and making same. H. Rodman. No. 1,420,754; June 27.
- Carbonaceous substances or hydrocarbons, Process and apparatus for extraction of. H. Plauson. No. 1,436,289; Nov. 21.
- Carbonating apparatus. H. F. Walter and G. R. McNeely. No. 1,434,573; Nov. 7.
- Carbonating device. C. J. Severson. No. 1,416,307; May 16.

- Carbonator. W. E. Leibing. No. 1,436,886; Nov. 28.
Carbonator. A. A. Pindstoffe. No. 1,405,323; Jan. 31.
Carbonator. H. F. Walter and G. R. McNeely. No. 1,434,574; Nov. 7.
Carbonator and dispensing barrel, Combination. A. B. Green. No. 1,418,072; May 30.
Carbonizing method. W. Bonsor. No. 1,422,530; July 11.
Carboy. C. Lefkowitz, E. E. Ross, and H. Lubin. No. 1,426,889; Aug. 22.
Carboy carrier. A. J. Becker. No. 1,429,218; Sept. 19.
Carboy carrier. A. J. Becker. No. 1,435,795; Nov. 14.
Carboy hood. E. J. Mayer. No. 1,435,723; Nov. 14.
Carboys, etc., Supporting device for. C. C. Fouts. No. 1,403,023; Jan. 10.
Carburetor. L. F. Wasson. No. 1,408,786; Mar. 7.
Carburetor heater. E. G. Watrous. No. 1,402,461; Jan. 3.
Carbureting air, Apparatus for. T. F. Williams, D. W. Coy, and H. B. Pruden. No. 1,409,325; Mar. 14.
Carbureting apparatus. J. Good. No. 1,405,777; Feb. 7.
Carbureting burner. E. P. Herpin. No. 1,403,954; Jan. 17.
Carburetor. F. D. Ackley. No. 1,428,200; Sept. 5.
Carburetor. F. D. Ackley. No. 1,435,043; Nov. 7.
Carburetor. F. E. Aseltine. No. 1,422,329; July 11.
Carburetor. A. C. Bennett. No. 1,430,001; Sept. 26.
Carburetor. F. Briscoe. No. 1,408,072; Feb. 28.
Carburetor. D. Cole and C. J. Gustafson. No. 1,435,151; Nov. 14.
Carburetor. W. H. Collier. No. 1,417,501; May 30.
Carburetor. W. H. Collier. No. 1,426,714; Aug. 22.
Carburetor. J. J. Cox and R. Wendelken. No. 1,414,935; May 2.
Carburetor. J. D'Allesina. No. 1,432,675; Oct. 17.
Carburetor. C. E. De Forrest. No. 1,403,848; Jan. 17.
Carburetor. H. G. Duncan. No. 1,413,107; Apr. 18.
Carburetor. A. H. Eddy. No. 1,437,638; Dec. 5.
Carburetor. W. A. Edwards. No. 1,411,426; Apr. 4.
Carburetor. J. M. Flannery and F. C. Dettelbach. No. 1,419,035; June 6.
Carburetor. P. P. Gilles. No. 1,433,545; Oct. 31.
Carburetor. E. G. Gilson. No. 1,407,024; Feb. 21.
Carburetor. W. Grikscheit. No. 1,410,748; Mar. 28.
Carburetor. C. Haggard. No. 1,409,947; Mar. 21.
Carburetor. W. A. Heide. No. 1,422,054; July 4.
Carburetor. W. A. Heide. No. 1,432,245; Oct. 17.
Carburetor. A. J. N. Hempel and O. A. E. Jacobsen. No. 1,407,155; Feb. 21.
Carburetor. G. F. Key. No. 1,410,321; Mar. 21.
Carburetor. H. V. Leahy. No. 1,421,790; July 4.
Carburetor. T. H. Leet. No. 1,438,926; Dec. 12.
Carburetor. G. J. Mayer. No. 1,414,035; Apr. 25.
Carburetor. F. C. Mock. No. 1,404,879; Jan. 31.
Carburetor. F. C. Mock. Nos. 1,416,857-8; May 23.
Carburetor. D. P. Molony. No. 1,404,215; Jan. 24.
Carburetor. C. A. Norlander. No. 1,423,579; July 25.
Carburetor. C. M. Park. No. 1,436,602; Nov. 21.
Carburetor. J. T. Peterson. No. 1,412,487; Apr. 11.
Carburetor. G. F. Peterson. No. 1,432,033; Oct. 17.
Carburetor. B. N. Pierce. No. 1,403,706; Jan. 17.
Carburetor. C. L. Rayfield. No. 1,412,259; Apr. 11.
Carburetor. E. Rector. No. 1,425,339; Aug. 8.
Carburetor. A. G. Redmond. No. 1,412,137; Apr. 11.
Carburetor. H. G. Renner. No. 1,428,558; Sept. 12.
Carburetor. H. G. Renner. No. 1,429,534; Sept. 19.
Carburetor. C. T. Schulz. No. 1,429,257; Sept. 19.
Carburetor. H. B. Simmons. No. 1,418,100; May 30.
Carburetor. J. A. Speed. No. 1,403,716; Jan. 17.
Carburetor. R. H. Taylor. No. 1,419,993; June 20.
Carburetor. J. J. Tracy and L. H. Morse. No. 1,433,689; Oct. 31.
Carburetor. J. J. Tracy and L. H. Morse. No. 1,435,947; Nov. 21.
Carburetor. E. F. Utz. No. 1,416,913; May 23.
Carburetor. S. D. Waldon. No. 1,418,756; June 6.
Carburetor. F. G. Washburn. No. 1,418,499; June 6.
Carburetor. A. H. Webber. No. 1,440,321; Dec. 26.
Carburetor. H. H. Welch. No. 1,405,700; Feb. 7.
Carburetor. R. Wendelkin. No. 1,413,440; Apr. 18.
Carburetor. W. E. Wilson. No. 1,420,356; June 20.
Carburetor. D. L. Winters. No. 1,430,482; Sept. 26.
Carburetor-adjusting device. H. T. Scott. No. 1,440,245; Dec. 26.
Carburetor air control device. E. G. Hodges. No. 1,413,985; Apr. 25.
Carburetor and feeder, Pulverized-fuel. W. H. Whitaker. No. 1,424,053; July 25.
Carburetor and fuel feed. C. L. Stokes. No. 1,420,886; June 27.
Carburetor attachment. F. Moore and A. Gray. No. 1,421,530; July 4.
Carburetor auxiliary. F. T. Farmer. No. 1,430,966; Oct. 3.
Carburetor choker and switch mechanism, Combination. M. A. Simon. No. 1,428,812; Sept. 12.
Carburetor Combined gravity and vacuum. J. A. Speed. No. 1,409,420; Mar. 14.
Carburetor, Comminuted-fuel. H. B. Proden. No. 1,437,678; Dec. 5.
Carburetor control, Automatic. S. E. Foreman. No. 1,419,963; June 20.
Carburetor-controlling device. S. Cruces and E. Lobo. No. 1,426,259; Aug. 15.
Carburetor, Duplex. F. R. Perry. No. 1,426,335; Aug. 15.
Carburetor float. J. O. Luthy. No. 1,427,306; Aug. 29.
Carburetor for internal-combustion engines. W. H. Anderson. No. 1,415,423; May 9.
Carburetor for internal-combustion engines. F. E. Baldwin. No. 1,435,578; Nov. 14.
Carburetor for internal-combustion engines. C. Brown. No. 1,422,413; July 11.
Carburetor for internal-combustion engines. F. F. Stratton. No. 1,403,987; Jan. 17.
Carburetor for starting internal-combustion engines, Supplementary. C. G. Pullin. No. 1,424,320; Aug. 1.
Carburetor for use with internal-combustion engines. C. and G. Willeby. No. 1,433,054; Oct. 24.
Carburetor heater. A. G. Koch and L. C. Flotow. No. 1,407,285; Feb. 21.
Carburetor heater. C. R. Piggins and W. C. Hanson. No. 1,413,681; Apr. 25.
Carburetor, Kerosene. J. J. Hawxhurst, Jr. No. 1,412,000; Apr. 4.
Carburetor lock for internal-combustion engines. M. Popkin. No. 1,409,236; Mar. 14.
Carburetor, Means for completing the vaporization and homogenization of mixture delivered by a. A. B. Evans. No. 1,430,222; Sept. 26.
Carburetor or inlet pipe of internal-combustion engines, Device for preventing backfire in the. W. E. Gollogly. No. 1,414,081; Apr. 25.
Carburetor primer. J. W. Swan. No. 1,407,356; Feb. 21.
Carburetor-priming rod mounting. J. Galamb. No. 1,436,706; Nov. 28.
Carburetors, Air heater and moisture supply for. S. R. Du Brie. No. 1,419,239; June 13.
Carburetors, Air-inlet-control device for. V. R. Heftler. No. 1,418,259; May 30.
Carburetors, Attachment for. L. F. Lieser. No. 1,422,871; July 18.
Carburetors, Auxiliary liquid-forcing device for. C. T. Weymann. No. 1,408,322; Feb. 28.
Carburetors, Emergency feed stop for. I. J. Ritchey. No. 1,434,150; Oct. 31.
Carburetors, Fuel check and lock for. A. F. Feller. No. 1,432,103; Oct. 17.
Carburetors, Fuel vaporizer for. M. O. Smith. No. 1,405,633; Feb. 7.
Carburetors, Heating coil for. E. M. Soreng. No. 1,422,896; July 18.
Carburetors, Preheating means for. C. C. Powers. No. 1,404,645; Jan. 24.
Carburetors, Vacuum-feeding device for. F. V. Risinger. No. 1,432,909; Oct. 24.
Carburetors, Vapor feed for. E. P. Reilley. No. 1,409,313; Mar. 14.
Carburetors, Vaporizing attachment for. P. J. Lincoln. No. 1,425,108; Aug. 8.
Carburetors, Warming device for. C. D. Higgins. No. 1,424,567; Aug. 1.
Carburizing box. P. A. E. Armstrong. No. 1,407,456; Feb. 21.
Carburizing compound. J. H. Schmidt. No. 1,407,951; Feb. 28.
Carburizing material. N. D. Nielsen. No. 1,416,501; May 16.
Carburizing materials. A. D. Nielsen. No. 1,405,553; Feb. 7.
Carcass conveyer. W. C. Longley. No. 1,408,372; Feb. 28.
Carcass-splitting machine. E. W. Knudsen. No. 1,434,444; Nov. 7.
Card and empty-car waybill, Combination home-route. J. E. Roberts. No. 1,404,321; Jan. 24.
Card and sign or poster painter's workbench. H. R. Ellis. No. 1,423,201; July 18.
Cardboard box and the like, Folding. A. Hess. No. 1,411,724; Apr. 4.
Cardboard box, Folding. E. G. Gereke. No. 1,437,511; Dec. 5.
Cardboard display box. J. F. Lyons. No. 1,407,073; Feb. 21.
Cardcase. P. G. Blanchet. No. 1,440,331; Dec. 26.
Card cutting and stacking machine. I. Wagemaker. No. 1,415,210; May 9.
Card, Display. J. Dombor. No. 1,406,944; Feb. 14.
Card, Display. W. D. Fennimore. No. 1,421,196; June 27.
Card display. A. Hatzung. No. 1,407,792; Feb. 28.
Card-exhibiting device. R. R. Whiting. No. 1,436,742; Nov. 23.
Card feeders, Scale for. J. B. Howe. No. 1,434,058; Oct. 31.
Card-filing apparatus. D. T. B. Wood. No. 1,419,656; June 13.
Card, Greeting. G. F. Stanley. No. 1,405,635; Feb. 7.
Card hand holder, Playing-. C. A. Ritter. No. 1,410,959; Mar. 28.
Card holder. A. Anderson. No. 1,423,294; July 18.
Card holder. B. C. Bridgman. No. 1,430,282; Sept. 26.
Card holder. L. L. Christensen. No. 1,429,406; Sept. 19.
Card holder. H. W. Fesser. No. 1,415,540; May 9.
Card holder. F. Haskel. No. 1,417,319; May 23.
Card holder. E. J. Palmer. No. 1,419,301; June 13.
Card holder. E. Terner. No. 1,415,276; May 9.
Card holder, Adjustable. R. C. Comingore. No. 1,412,168; Apr. 11.
Card holder, Index-. W. Hertzberg. No. 1,422,973; July 18.
Card holder, Movable price. E. J. Hamer. No. 1,409,100; Mar. 7.

Alphabetical list of inventions—Continued.

- Card holder, Price. C. E. Osburn. No. 1,403,100; Jan. 10.
 Card holder, Shipping. W. F. Luick. No. 1,425,874; Aug. 15.
 Card holder, Universal. F. Haskel. No. 1,405,915; Feb. 7.
 Card index. J. C. Russell. Nos. 1,423,029-30; July 18.
 Card or tag holder. B. H. Børreson. No. 1,414,251; Apr. 25.
 Card repeating and transposing machine, Jacquard. L. Herzog. Nos. 1,423,110-11; July 18.
 Card-shuffling box, Playing. G. W. Aegerter and K. Schliepmann. No. 1,434,034; Oct. 31.
 Card-sorting machines, Single-column selector for. R. E. Page. No. 1,426,499; Aug. 22.
 Card-tabulating machines, Stop motion for. W. W. Lasker. No. 1,438,536; Dec. 12.
 Card, Tooth-mounting. E. J. Huff, jr. No. 1,431,159; Oct. 10.
 Card, Wool. E. V. Bates. No. 1,433,927; Oct. 31.
 Cards and other objects, Selecting machine for. H. G. Tiffany. No. 1,405,076; Jan. 31.
 Cards, Carton for playing. A. N. Epstein. No. 1,404,945; Jan. 31.
 Cards, etc., Display holder for price. W. H. Averill. No. 1,438,009; Dec. 5.
 Cards, Frame for advertising. R. A. Johnston. No. 1,424,570; Aug. 1.
 Cards, Holder for playing. R. C. Castles. No. 1,416,447; May 16.
 Cards, Manufacturing design. H. Ottolenghi-Wedekind. No. 1,422,885; July 18.
 Cards, Playing. L. Rabow. No. 1,437,680; Dec. 5.
 Cards, Playing. M. B. Reach. No. 1,418,020; May 30.
 Cards, slips, etc., Container for. A. Schickerling. No. 1,437,022; Nov. 28.
 Carding and other machines, machine for feeding articles. V. Puc. No. 1,436,822; Nov. 28.
 Carding machine. W. Whipple and G. W. Ekdahl. No. 1,439,347; Dec. 19.
 Carding machines and the like, Stripping apparatus for. A. Smith. No. 1,424,598; Aug. 1.
 Cardanic suspension. K. Stahl. No. 1,419,176; June 13.
 Care-taking device. W. G. Christian. No. 1,420,242; June 20.
 Cargo light. H. Beer. No. 1,403,935; Jan. 17.
 Carpenter's plane. C. Bailey. No. 1,418,513; June 6.
 Carpet and rug package. G. O. Coombs. No. 1,405,188; Jan. 31.
 Carpet and window cleaner, Combination. A. Polansky. No. 1,412,420; Apr. 11.
 Carpet beater. E. H. Stoner. No. 1,418,179; May 30.
 Carpet-cleaning process and apparatus. H. F. Gray. No. 1,410,913; Mar. 28.
 Carpet or rug fastener. W. Broome. No. 1,430,353; Sept. 26.
 Carpet protector. C. B. Walsh. No. 1,430,341; Sept. 26.
 Carpet strips, Twister for. W. E. Olson. No. 1,406,217; Feb. 14.
 Carpet sweeper. R. D. Laidlaw. No. 1,433,957; Oct. 31.
 Carpet sweeper. C. H. Roth. No. 1,407,676; Feb. 21.
 Carpet-sweeper attachment. H. Frankenstein. No. 1,420,830; June 27.
 Carpet Sweeper, Suction. J. M. Spangler. (Reissue.) No. 15,414; July 18.
 Carpets, Clamping device for stair. W. S. Richardson. No. 1,402,253; Jan. 3.
 Carpets, Power loom for the manufacture of oriental, Persian, wound, and other knot-stitch. P. and A. Renard. No. 1,437,682; Dec. 5.
 Carriage and bassinet, Convertible baby. S. Garrett and W. P. Layton. No. 1,437,052; Nov. 28.
 Carriage, Baby. S. J. Bens. No. 1,428,000; Sept. 5.
 Carriage, Baby. H. B. Nassoit. No. 1,413,422; Apr. 18.
 Carriage, Child's. C. A. Lindberg. No. 1,422,277; July 11.
 Carriage, Collapsible. C. V. Richardson. No. 1,426,601; Aug. 22.
 Carriage-control mechanism. C. Spiro. No. 1,402,265; Jan. 3.
 Carriage device, Utility. C. W. Allebrand and C. G. Guyatt. No. 1,431,862; Oct. 10.
 Carriage, Folding. L. W. Taylor. No. 1,438,466; Dec. 12.
 Carriage, Folding baby. G. Forde. No. 1,418,243; May 30.
 Carriage, Folding baby. J. A. Mahr. No. 1,432,114; Oct. 17.
 Carriage-lifting jack, Hydraulic. H. Rehak. No. 1,420,146; June 20.
 Carriage-operating mechanism. W. W. Lasker. No. 1,423,437; July 18.
 Carriage, Overhead. W. L. Barton. No. 1,433,926; Oct. 31.
 Carriage, Rocking. N. Chapdelaine. No. 1,404,834; Jan. 31.
 Carriage, Roof. J. A. Mattson. No. 1,412,060; Apr. 11.
 Carriage screen, Baby. S. Greenebaum. No. 1,412,935; Apr. 18.
 Carriage seat, Baby. S. Bestimt. No. 1,409,331; Mar. 14.
 Carriages, Auxiliary seat for baby. B. G. Green. No. 1,408,729; Mar. 7.
 Carriages, Headblock for sawmill. C. W. Willett. No. 1,404,820; Jan. 31.
 Carriages, Runner for baby. J. E. Douglas. No. 1,416,454; May 16.
- Carrier: See—
 Article carrier. Golf-club carrier.
 Auto luggage carrier. Grain carrier.
 Auto tire-tube carrier. Gravity carrier.
 Automatic carrier. Hay carrier.
 Automobile carrier. Ice-cream carrier.
 Automobile package carrier. Luggage carrier.
 Automobile tire carrier. Lumber carrier.
 Baby carrier. Mail carrier.
 Baggage carrier. Man pack carrier.
 Book carrier. Manure carrier.
 Bottle carrier. Medal ribbon carrier.
 Bouquet carrier. Milk-bottle carrier.
 Braiding carrier. Motion-picture carrier.
 Braiding-machine carrier. Output carrier.
 Cable carrier. Overhead carrier.
 Carboy carrier. Photographic film carrier.
 Cash carrier. Projection-slide carrier.
 Collapsible carrier. Rope carrier.
 Contact carrier. Rope-sheave carrier.
 Drawbar carrier. Scaffold carrier.
 Egg carrier. Sign carrier.
 Egg holder and carrier. Spare-tire carrier.
 Endless carrier. Stereopticon-slide carrier.
 Fishing-snail carrier. Ticket carrier.
 Floss carrier. Tire carrier.
 Folding carrier. Token carrier.
 Freight carrier. Type carrier.
 Fuse carrier. Universal tire carrier.
 Glass-article carrier. Wheel carrier.
- Carrier. O. O. Eaton. No. 1,424,630; Aug. 1.
 Carrier. R. F. Rasmussen. No. 1,430,186; Sept. 26.
 Carrier chain, Universal. B. H. Purcell. No. 1,424,850; Aug. 8.
 Carrier for handling frames and the like, Elevated. W. E. Irish and A. K. Nowak. No. 1,417,528; May 30.
 Carrier or stretcher. E. King. No. 1,438,921; Dec. 12.
 Carrier, Output. O. L. Routt, G. C. McConnell, and H. L. Glaze. No. 1,408,642; Mar. 7.
 Carrier, Overhead system. J. L. Baldwin. No. 1,425,740; Aug. 15.
 Carrier rollers, etc., Bushing for. F. J. Oakes. No. 1,419,892; June 13.
 Carriers, Attachment for bundle. N. M. Cameron. No. 1,419,542; June 13.
 Carriers, Automatic electric weight-measuring device for movable. H. J. Murray. No. 1,407,078; Feb. 21.
 Carriers, Load locking and releasing means for overhead. J. Glasner. Nos. 1,433,368-9; Oct. 24.
 Carriers, System of conveying and delivering material to. F. L. Stuart. No. 1,422,493; July 11.
 Carry bag. R. C. Groh. No. 1,418,705; June 6.
 Carrying case. A. A. Thomas. No. 1,416,139; May 16.
 Carrying case and camping table, Combination. R. M. Corpstein. No. 1,426,962; Aug. 22.
 Carrying device. C. Barnes and A. A. Miller. No. 1,412,035; Apr. 11.
 Carrotting hairs. C. Pichard. No. 1,419,754; June 13.
 Carousel. R. D. Marx. No. 1,437,534; Dec. 5.
 Carousel, Swinging. J. M. Seawell. No. 1,439,765; Dec. 26.
 Cart. M. B. Capen. No. 1,414,112; Apr. 25.
 Cart, Child's. J. A. Eberle. No. 1,410,174; Mar. 21.
 Cart, Dumping. R. A. Sale. No. 1,425,698; Aug. 15.
 Cart, Floor. G. R. Davis. No. 1,427,583; Aug. 29.
 Carton. J. A. Albers. No. 1,412,155; Apr. 11.
 Carton. G. F. Callery and R. W. Lotz. No. 1,415,988; May 16.
 Carton. J. J. Gannon. No. 1,415,543; May 9.
 Carton. J. O. Larsen. No. 1,427,828; Sept. 5.
 Carton. J. Peterson. No. 1,425,335; Aug. 8.
 Carton. C. D. Sappenfield. No. 1,431,128; Oct. 3.
 Carton-assembling device. C. V. Hogan. No. 1,407,864; Feb. 28.
 Carton, Container and display. W. M. and C. J. Doering. Nos. 1,405,503-5; Feb. 7.
 Carton, Display. W. P. Ten Eyck. No. 1,434,165; Oct. 31.
 Carton-filling machine. J. W. Andrews and H. L. Evans. No. 1,439,536; Dec. 19.
 Carton-filling machine. G. P. Rasck and L. Weeks. No. 1,411,514; Apr. 4.
 Carton-filling mechanism. M. J. Milmo. No. 1,425,997; Aug. 15.
 Carton-folding apparatus. I. Shafer and C. A. Small. No. 1,409,474; Mar. 14.
 Carton-handling apparatus. J. L. Ferguson. No. 1,423,097; July 18.
 Carton-heading machine, Automatic. F. Coates. No. 1,439,609; Dec. 19.
 Carton sealer. G. K. Henderson. No. 1,424,018; July 25.
 Carton, Shipping, display, and vending. H. Amatel. No. 1,434,979; Nov. 7.
 Cartons and similar receptacles or containers, Manufacture of. W. E. J. Crossby and J. Mellor. No. 1,437,496; Dec. 5.
 Cartons, Corner reinforcement for. C. B. Taylor. No. 1,425,069; Aug. 8.
 Cartons or boxes, Device for filling. B. K. Wilbur. No. 1,415,075; May 9.

- Cartridge belt. E. H. Angier and W. M. Wheildon. No. 1,436,227; Nov. 21.
- Cartridge-belt container. J. S. Peoples. No. 1,406,954; Feb. 14.
- Cartridge, Chemical. J. W. Van Meter. No. 1,430,772; Oct. 3.
- Cartridge-feeding device. H. Vollmer. No. 1,413,694; Apr. 25.
- Cartridge fuse. T. Colson. No. 1,419,226; June 13.
- Cartridge, Heat. J. C. Woodson. No. 1,433,691; Oct. 31.
- Cartridge magazine. L. M. and M. A. Endres. No. 1,405,508; Feb. 7.
- Cartridge magazine. H. Ortgies. No. 1,437,543; Dec. 5.
- Cartridge stop lever for tubular magazines of small arms. J. Declaye. No. 1,435,282; Nov. 14.
- Cartridges. Mechanism and method for disassembling. C. C. Sheppard and H. C. Schmidt. No. 1,403,525; Jan. 17.
- Cartridges, Metallic-belt-loading machine for. J. F. Knight. No. 1,403,419; Jan. 10.
- Carving machine. C. A. Oveson. No. 1,435,619; Nov. 14.
- Carving machine. W. C. Stenger. No. 1,440,184; Dec. 26.
- Carving tool. W. C. Stenger. No. 1,409,258; Mar. 14.
- Case: See—
- Automobile curtain case.
 - Battery case.
 - Bottle case.
 - Brief case.
 - Burial case.
 - Carrying case.
 - Check and money-order case.
 - Cigar case.
 - Cigarette case.
 - Clock case.
 - Collapsible oven-carrying case.
 - Collar case.
 - Combination comb case.
 - Conductor's equipment case.
 - Display case.
 - Egg case.
 - Electric-lighted vanity case.
 - Eyeglass case.
 - File case.
 - Flexible key case.
 - Gear case.
 - Jewel case.
 - Key case.
 - Manicure case.
 - Packing case.
 - Pencil case.
 - Pocket case.
 - Refrigerator display case.
 - Sanitary case.
 - Sewing-machine bobbin case.
 - Shipping case.
 - Show case.
 - Spool and needle case.
 - Stock and display case.
 - Thermometer case.
 - Thermometer-holder case.
 - Toilet case.
 - Toilet-article case.
 - Transporting case.
 - Type case.
 - Vanity case.
 - Watchcase.
- Case. E. L. Schumacher. No. 1,438,142; Dec. 5.
- Case and fastener therefor. A. L. Wagstaff. No. 1,436,836; Nov. 28.
- Case hardening. H. Rodman. No. 1,432,416; Oct. 17.
- Case-hardening articles. G. C. Nixon and F. C. Raab. No. 1,415,261; May 9.
- Case, Vanity. H. H. Raynor. No. 1,404,058; Jan. 17.
- Casement adjuster, Friction. E. J. Sibley. No. 1,412,199; Apr. 11.
- Casement and like windows, Stay for. E. F. Willoughby and E. M. B. Revill. No. 1,405,082; Jan. 31.
- Casein-oil composition and making same. H. V. Dunham. No. 1,431,937; Oct. 17.
- Casein and hydroxide, Producing a composition of. A. A. Dunham. No. 1,412,462; Apr. 11.
- Cash carrier. J. L. Baldwin. No. 1,432,947; Oct. 24.
- Cashiers' cages, Safety booth for. E. E. Dell. No. 1,419,960; June 20.
- Cash-register system. G. M. Gorden. No. 1,420,311; June 20.
- Cash-registers tab-actuating mechanism. F. E. Miller. No. 1,427,311; Aug. 29.
- Casing and rim, Combination pneumatic. J. Velcio. No. 1,433,312; Oct. 24.
- Casing and stand. C. G. Glover. No. 1,407,526; Feb. 21.
- Casing cutting tool. C. C. Hansen. No. 1,406,853; Feb. 14.
- Casing elevator. B. N. Youngken. No. 1,424,548; Aug. 1.
- Casing-head attachment. F. Kinzbach. No. 1,425,022; Aug. 8.
- Casing-pulling device. G. W. Carter and R. B. Hayden. No. 1,418,533; June 6.
- Casing ring and wedge apparatus. J. D. Gibbs. No. 1,435,635; Nov. 14.
- Casing ripper. F. J. Hinderliter. No. 1,433,722; Oct. 31.
- Casing section, Machine for applying a cover or binding to a. C. Fisher. No. 1,420,827; June 27.
- Casing spear. F. G. Liady. No. 1,433,084; Oct. 24.
- Casing wrench. R. A. Wilson. No. 1,418,767; June 6.
- Cask cover. A. Leeseekamp. No. 1,417,845; May 30.
- Cask, drum, or the like, Metal. S. C. Mount. No. 1,423,673; July 25.
- Cask handler. M. Matthiasen. No. 1,406,052; Feb. 7.
- Cask hoops, Machine for bending. J. W. Suchet. No. 1,431,848; Oct. 10.
- Casket and burial vault, Combined. J. B. Beam. No. 1,410,643; Mar. 28.
- Casket, Burial. F. J. Leo. No. 1,417,534; May 30.
- Casket coverings, Fastening for. C. G. Thumm. No. 1,412,299; Apr. 11.
- Casket handle. R. F. Christian. No. 1,420,815; June 27.
- Casket handle. F. J. Kallmeyer. No. 1,427,603; Aug. 29.
- Casket handle, Burial. T. W. Bergesch. No. 1,403,666; Jan. 17.
- Casket-lowering device. W. Maechler. No. 1,402,781; Jan. 10.
- Casket, Metal. B. T. Mesker. No. 1,421,018; June 27.
- Casket mold. F. O. Downer. No. 1,402,845; Jan. 10.
- Casket sealing, Automatic. T. Hostetter. No. 1,410,757; Mar. 28.
- Caskets, Attachment for. J. Fishman. No. 1,436,757; Nov. 28.
- Caskets, Handle holder for. F. M. Sunday. No. 1,426,785; Aug. 22.
- Caskets in shipping boxes, Means for securing. J. B. Burkhardt. No. 1,426,355; Aug. 22.
- Caskets, Manufacturing metal. O. H. Eliel. No. 1,412,851; Apr. 18.
- Caskets, Shipping case for. G. B. Sexton. No. 1,402,666; Jan. 3.
- Casserole frame. J. J. O'Mara. No. 1,429,763; Sept. 19.
- Caster. C. A. Bartlett and D. W. Schoenthal. No. 1,435,371; Nov. 14.
- Caster. B. B. Blood. No. 1,409,150; Mar. 14.
- Caster. C. E. Bunker. No. 1,429,187; Sept. 12.
- Caster. J. S. Cantelo. No. 1,406,930; Feb. 14.
- Caster. C. J. Crawley. No. 1,404,743; Jan. 31.
- Caster. A. B. Diss. No. 1,420,415; June 20.
- Caster. S. L. Hardman. No. 1,420,190; June 20.
- Caster. W. F. Herold. No. 1,410,677; Mar. 28.
- Caster. W. F. Herold. No. 1,418,711; June 6.
- Caster. A. K. Nixon. No. 1,428,899; Sept. 12.
- Caster. A. H. Roth. No. 1,407,171; Feb. 21.
- Caster. P. F. Swart. No. 1,440,115; Dec. 26.
- Caster. A. Thiele. No. 1,402,191; Jan. 3.
- Caster. A. W. Warnock. No. 1,421,626; July 4.
- Caster. J. F. Wolfs. No. 1,421,647; July 4.
- Caster. V. H. York. No. 1,412,499; Apr. 11.
- Caster, Adjustable. D. L. Sterner. No. 1,417,640; May 30.
- Caster, Ball. M. A. Michaels. No. 1,438,543; Dec. 12.
- Caster, Ball-bearing. B. H. Divine. No. 1,413,394; Apr. 18.
- Caster, Ball-bearing. F. Kirschke. No. 1,432,760; Oct. 24.
- Caster, Ball-bearing. W. W. Noelting. No. 1,424,028; July 25.
- Caster cup. W. M. Anderson. No. 1,402,998; Jan. 10.
- Caster for showcases. S. Berman. No. 1,426,452; Aug. 22.
- Caster for tapered-leg furniture. D. B. Diss. No. 1,433,983; Oct. 31.
- Caster for trucks, etc. W. F. Herold. No. 1,410,676; Mar. 28.
- Caster, Leg-mount. W. H. and C. B. Noelting. No. 1,414,150; Apr. 25.
- Caster lock. M. F. Bayer. No. 1,428,932; Sept. 12.
- Caster pintles, Locking means for. G. F. Van Meter. No. 1,423,700; July 25.
- Caster retainer. G. A. Schulte. No. 1,439,333; Dec. 19.
- Caster socket. A. L. Crandall. No. 1,439,149; Dec. 19.
- Caster socket. J. F. Gail. No. 1,424,466; Aug. 1.
- Caster socket, Top-bearing. W. H. Noelting. No. 1,426,494; Aug. 22.
- Caster wheel. W. F. Herold. No. 1,405,585; Feb. 7.
- Casting. W. C. Bowers. No. 1,403,005; Jan. 10.
- Casting. H. A. Schwartz. No. 1,428,987; Sept. 12.
- Casting, Acid-proof. H. Terrisse and M. Lévy. No. 1,432,923; Oct. 24.
- Casting and finishing machine, Semiautomatic plate. C. E. Hopkins. No. 1,433,549; Oct. 31.
- Casting apparatus. H. Hermanns. No. 1,415,348; May 9.
- Casting apparatus. T. A. Horton. No. 1,418,078; May 30.
- Casting apparatus. S. McFarland. No. 1,418,949; June 6.
- Casting apparatus. S. McFarland. No. 1,434,496; Nov. 7.
- Casting, Centrifugal. L. Cammen. No. 1,410,885; Mar. 28.
- Casting, Centrifugal. L. Cammen. No. 1,436,305; Nov. 21.
- Casting clay articles, Mold for. R. W. White. No. 1,415,213; May 9.
- Casting corners for metal beds. I. A. Featherman. No. 1,416,343; May 16.
- Casting device, Ingot. F. L. Jamison. No. 1,425,658; Aug. 15.
- Casting, Die. C. M. Grey. No. 1,435,292; Nov. 14.
- Casting hot liquid material. Process and apparatus for. J. L. Mauch. No. 1,417,542; May 30.
- Casting iron pipes and means for producing the same, Core for. G. G. Berry. No. 1,429,562; Sept. 19.
- Casting italic type, Means for. G. L. Curle. No. 1,427,363; Aug. 29.
- Casting machine. P. E. Schwarz and T. D. Salmon. No. 1,424,595; Aug. 1.
- Casting machine, Centrifugal. F. Ellis. No. 1,436,756; Nov. 28.
- Casting machine, Centrifugal. W. S. Myers. No. 1,428,048; Sept. 5.
- Casting machine, Centrifugal. A. F. Rockwell. No. 1,403,347; Jan. 10.
- Casting machine, Centrifugal. J. V. Turner. No. 1,429,807; Sept. 19.
- Casting machine, Centrifugal. W. F. Wolf. No. 1,425,927; Aug. 15.
- Casting machine, Line-slug. S. A. Bisey. No. 1,423,388; July 18.
- Casting-machine mold. Rotary. W. A. Oubridge. No. 1,418,826; June 6.
- Casting machine, Strip. J. S. Thompson. No. 1,423,474; July 18.
- Casting machines, Conveyor for pig-metal. W. T. Hurst. No. 1,435,007; Nov. 7.

Alphabetical list of inventions—Continued.

- Casting machines, Feeding device for die. G. W. Bungay. No. 1,416,261; May 16.
- Casting machines, Numbering machine for line. A. Coelho. No. 1,432,441; Oct. 17.
- Casting, Method of and apparatus for metal. H. T. Case. No. 1,429,568; Sept. 19.
- Casting mold. O. Busse. No. 1,413,387; Apr. 18.
- Casting mold for concrete bulis. E. A. Larsen. No. 1,416,844; May 23.
- Casting process. G. Engel, sr. No. 1,423,654; July 25.
- Casting sash weights, Apparatus for. G. W. Gillespie. No. 1,432,749; Oct. 24.
- Casting steel wheels, Apparatus for. G. Walther. No. 1,417,959; May 30.
- Castings and the like, Machine for cleaning. W. A. Hext. No. 1,419,118; June 6.
- Castings, Apparatus for use in the treatment or annealing of. B. K. Smith. No. 1,406,769; Feb. 14.
- Castings, Controlling the condition of. O. Sowers. No. 1,417,638; May 30.
- Castings, Machining out-of-round piston-ring. C. E. Johnson. No. 1,405,517; Feb. 7.
- Castings, Method of and apparatus for coating. J. S. Jobe, J. Dixon, and A. E. Arrott. No. 1,412,057; Apr. 11.
- Castings, Mold for making metal. F. E. Thomes. No. 1,410,777; Mar. 28.
- Castings, Mold for metal. F. E. Thomes. No. 1,410,775; Mar. 28.
- Castings of aluminum-silicon alloys, Making. J. D. Edwards, F. C. Frary, and H. V. Churchill. No. 1,410,461; Mar. 21.
- Castings, Treating. W. Y. Stroh and J. Thompson. No. 1,439,454; Dec. 19.
- Cast-iron particles, and articles made therefrom, Treatment of. W. C. Main. No. 1,439,907; Dec. 26.
- Catadioptric projector. W. Churchill. No. 1,438,360; Dec. 12.
- Catalyst. C. H. MacDowell and H. H. Meyers. No. 1,420,203; June 20.
- Catalyst and preparing same. J. C. Clancy. No. 1,425,576; Aug. 15.
- Catalyst, Restoring the activity of. G. A. Richter and W. B. Van Arsdel. No. 1,431,982; Oct. 17.
- Catalysts and effecting catalytic reactions therewith, Nonpyrophoric. N. Sulzberger. No. 1,426,517; Aug. 22.
- Catalytic material employed for the promotion of synthetic chemical reactions, Apparatus for carrying out the preparation of. H. Lane. No. 1,428,965; Sept. 12.
- Catalytic material, Preparing. A. W. Chase and W. B. Van Arsdel. No. 1,432,668; Oct. 17.
- Catalyzer. K. H. Wimmer. No. 1,416,249; May 16.
- Catalyzer and producing the same. W. D. Richardson. No. 1,419,986; June 20.
- Catalyzers, Regeneration or reactivation of. W. D. Richardson. No. 1,412,219; Apr. 11.
- Catalyzing apparatus. J. M. Selden. No. 1,427,554; Aug. 29.
- Catalyzing material, Preparing. E. Weintraub. No. 1,423,978; July 25.
- Catamenial calendar. J. L. Murray. No. 1,406,210; Feb. 14.
- Catamenial sack. J. A. Gunderson. No. 1,419,044; June 6.
- Catapult and projector therefor. C. E. Tiedeman. No. 1,405,075; Jan. 31.
- Catch, Safety. W. J. O'Brien. No. 1,433,029; Oct. 24.
- Catenary-suspension system. O. M. Jorstad. No. 1,427,393; Aug. 29.
- Catheters, Apparatus for manufacturing. E. F. Miller. No. 1,404,042; Jan. 17.
- Cathode. M. E. Fuld. No. 1,439,955; Dec. 26.
- Cathode apparatus, Hot. R. J. Wensley. No. 1,408,053; Feb. 28.
- Catsup, Manufacture of. W. A. Beatty. No. 1,402,136; Jan. 3.
- Cattle guard. J. Butler. No. 1,435,582; Nov. 14.
- Cattle guard. H. F. Carden. No. 1,406,343; Feb. 14.
- Cattle guard. C. M. Green. No. 1,409,167; Mar. 14.
- Cattle guard. H. F. McClell. No. 1,433,898; Oct. 31.
- Cattle guard, Automatic. A. H. Havor. No. 1,412,240; Apr. 11.
- Cattle poke. E. M. Geigle. No. 1,411,081; Mar. 28.
- Cattle tie. J. Mott. No. 1,408,764; Mar. 7.
- Cattle, Watering device for. H. C. Rassmann. No. 1,406,490; Feb. 14.
- Cauterizing instrument. S. E. Adams. No. 1,411,248; Mar. 28.
- Cavities, Filling up subterranean. A. Goebel and M. A. Eiben. No. 1,404,112; Jan. 17.
- Ceiling. M. Wiepcke. No. 1,430,481; Sept. 26.
- Ceiling and floor construction. E. E. Hall. No. 1,417,056; May 23.
- Ceiling construction. C. W. Stevens. No. 1,415,273; May 9.
- Ceiling, Inserted joist. J. Hartmann. No. 1,414,332; Apr. 25.
- Ceiling sleeve. J. W. Farley. No. 1,411,241; Mar. 28.
- Ceiling-washing machine. N. J. Soderlund. No. 1,414,101; Apr. 25.
- Cell, Dry. R. C. Benner and H. F. French. No. 1,433,526; Oct. 31.
- Cell, Dry. H. R. Dam. No. 1,407,386; Feb. 21.
- Cell, Dry. H. F. French. No. 1,402,224; Jan. 3.
- Cell, Dry. C. W. Hazelett. Nos. 1,403,409-10; Jan. 10.
- Cell, Dry. G. W. Vinal and H. D. Holler. No. 1,406,429; Feb. 14.
- Cell, Reserve. W. Hoppie. No. 1,402,070; Jan. 3.
- Cell, Reserve. W. Hoppie. No. 1,432,025; Oct. 17.
- Cells, Manufacture of primary. H. de Olaneta. No. 1,402,285; Jan. 3.
- Celluloid product and making same, Compound. C. Schuster. No. 1,434,157; Oct. 31.
- Celluloid, Production of noninflammable. A. Eichengrün. No. 1,420,028; June 20.
- Celluloid vessels, Manufacture of. A. Pouchain. No. 1,427,972; Sept. 5.
- Cellulose-acetate composition. H. Dreyfus. No. 1,440,006; Dec. 26.
- Cellulose acetate products, Treatment of. J. F. Briggs. No. 1,425,364; Aug. 8.
- Cellulose-acetate solution. M. E. Putnam and W. E. Kirst. No. 1,406,224; Feb. 14.
- Cellulose-acetate solvent and composition. V. B. Sease. No. 1,434,634; Nov. 7.
- Cellulose butyrate, Preparing. G. J. Esselen, jr., and H. S. Mork. No. 1,425,581; Aug. 15.
- Cellulose compositions with solvent vapors, Apparatus for use in treating. K. C. Underwood, J. E. Crane, and J. M. Kessler. No. 1,412,762; Apr. 11.
- Cellulose compounds, Making. J. C. Clancy. No. 1,439,293; Dec. 19.
- Cellulose derivative and preparing same. G. J. Esselen, jr., and H. S. Mork. No. 1,425,580; Aug. 15.
- Cellulose-ester composition. B. E. Eldred. No. 1,408,423; Feb. 28.
- Cellulose-ester plastic. J. M. Kessler. No. 1,408,095; Feb. 28.
- Cellulose-ester products, Preparing. H. S. Mork and C. F. Coffin, Jr. Nos. 1,421,288-90; June 27.
- Cellulose-ester products, Treating. A. W. Phillips. No. 1,411,669; Apr. 4.
- Cellulose esters and ethers, Composition and film containing mixtures of. L. J. Malone. No. 1,429,153; Sept. 12.
- Cellulose-ether composition. H. T. Clarke. Nos. 1,405,490-1; Feb. 7.
- Cellulose-ether composition. P. C. Seel. No. 1,405,448; Feb. 7.
- Cellulose-ether composition. P. C. Seel. No. 1,429,169; Sept. 12.
- Cellulose-ether solvent and composition. S. J. Carroll. No. 1,405,487; Feb. 7.
- Cellulose-ether solvent and composition. S. J. Carroll. No. 1,411,708; Apr. 4.
- Cellulose-ether solvent and composition. S. J. Carroll. No. 1,425,173; Aug. 8.
- Cellulose-ether solvent and composition. S. J. Carroll. No. 1,429,188; Sept. 12.
- Cellulose-ether solvent and composition. S. J. Carroll. No. 1,431,905; Oct. 10.
- Cellulose-ether solvent and composition. S. J. Carroll. Nos. 1,434,426-7; Nov. 7.
- Cellulose-ether solvent and composition. S. J. Carroll. No. 1,437,792; Dec. 5.
- Cellulose-ether solvent and composition. J. M. Donohue. No. 1,434,432; Nov. 7.
- Cellulose-ether solvent and composition. P. C. Seel. No. 1,405,449; Feb. 7.
- Cellulose-ether solvent and composition. R. L. Stinchfield. Nos. 1,432,364-5; Oct. 17.
- Cellulose-ether solvent and composition. W. R. Webb. No. 1,418,413; June 3.
- Cellulose-ether solvent and composition. W. R. Webb. Nos. 1,432,373-4; Oct. 17.
- Cellulose ether solvent and composition. W. R. Webb. No. 1,434,465; Nov. 7.
- Cellulose ethers, Making. J. M. Donohue. No. 1,415,023; May 9.
- Cellulose ethers, Making. P. C. Seel. Nos. 1,437,820-1; Dec. 5.
- Cellulose ethers, Manufacture of molded articles from. G. Leysieffer. No. 1,427,690; Aug. 29.
- Cellulose for the production of cellulose films, filaments, or threads, Preparation of viscose solutions of. W. O. Mitscherling. No. 1,435,650; Nov. 14.
- Cellulose from vegetable fibers, Extraction of the. B. Cataldi. No. 1,424,620; Aug. 1.
- Cellulose from vegetable matter, Production of. G. J. Bustamante. No. 1,402,210; Jan. 3.
- Cellulose nitrate and cellulose ether and solvent used therein, Composition containing. S. J. Carroll. No. 1,431,906; Oct. 10.
- Cellulose, Nitration of. R. P. Calvert. No. 1,437,041; Nov. 28.
- Cellulose or materials containing cellulose, Treatment of. M. A. Adam. No. 1,402,201; Jan. 3.
- Cellulose solution. W. T. Scheele. No. 1,408,035; Feb. 28.
- Cellulose to fibers and for transforming the same into the liquid state, Method and machine for reducing. O. Venter. No. 1,412,763; Apr. 11.
- Cellulosic colloids, Controlling the stabilizer content of. G. Rucker. No. 1,424,212; Aug. 1.
- Cellulosic material, Band of. J. E. Brandenberger. No. 1,406,148; Feb. 7.
- Cement. W. T. Goddard. No. 1,409,091; Mar. 7.

- Cement anchor post, Combination. S. W. Hinckley. No. 1,431,799; Oct. 10.
- Cement and concrete. E. Longan y Senan. No. 1,406,421; Feb. 14.
- Cement and iron filaments, Process and apparatus for the manufacture of molded or cast articles of. P. J. Tabourin. No. 1,433,045; Oct. 24.
- Cement block and wall structure. O. J. Olafson. No. 1,404,473; Jan. 24.
- Cement-block machine. W. J. McCoy. No. 1,438,448; Dec. 12.
- Cement-block machine. C. Zophy. No. 1,408,558; Mar. 7.
- Cement composition and method and apparatus for forming same, Fiber. R. H. Anderson. No. 1,408,341; Feb. 28.
- Cementing and protecting composition. L. E. Barringer. No. 1,423,985; July 25.
- Cementing composition. K. O. Dufva. No. 1,407,194; Feb. 21.
- Cementing machine. E. B. Grush. No. 1,404,200; Jan. 24.
- Cement interlocking plate. O. Faber. No. 1,420,246; June 20.
- Cement, Manufacture of molded articles from. W. E. W. Richards. No. 1,408,401; Feb. 28.
- Cement mill. A. Berglund. No. 1,426,812; Aug. 22.
- Cement or mortar, Insulating. A. S. Elsenbast and W. L. Jordan. No. 1,421,192; June 27.
- Cement or similar floors, Insert for. C. H. Fay. No. 1,419,548; June 13.
- Cement pipes, Machine for making. J. Thomas. (Re-issue.) No. 15,487; Nov. 7.
- Cement-post mold. N. J. Johnson. No. 1,407,196; Feb. 21.
- Cement roofing, Reenforced. J. E. Whiteside. No. 1,425,564; Aug. 15.
- Cement roofing tile, Machine for making. J. W. Alexander. No. 1,428,351; Sept. 5.
- Cement spreader. C. J. Bellar. No. 1,419,537; June 13.
- Cement tie and rail fastener. A. L. Crane. No. 1,423,600; July 25.
- Cement-tile-making machine. W. Gillard. No. 1,424,469; Aug. 1.
- Cement-working machinery. C. M. Eberling. No. 1,407,846; Feb. 28.
- Cementitious composition and making same. H. Rich. No. 1,404,060; Jan. 17.
- Cementitious materials, Reenforcing bar for. H. H. Muir. No. 1,416,117; May 16.
- Cementitious materials, Regulating composition for. A. T. Malméd. No. 1,436,276; Nov. 21.
- Cementitious products, Making. A. O. Crozier. No. 1,403,542; Jan. 17.
- Cementitious products, Manufacture of hollow. A. O. Crozier. No. 1,416,691; May 23.
- Center and surface testing indicator. D. McDuff. No. 1,426,207; Aug. 15.
- Center-finding instrument. E. T. Strauss. No. 1,429,793; Sept. 19.
- Center-forming device. J. H. Downie. No. 1,430,730 Oct. 3.
- Center gauge. J. A. Krivacs. No. 1,410,196; Mar. 21.
- Centering device. W. D. Bartlett and S. Marquis. No. 1,402,720; Jan. 3.
- Centering device. B. W. Decatur. No. 1,404,096; Jan. 17.
- Centering device. L. B. Girard and F. L. Meneley. No. 1,424,895; Aug. 8.
- Centering device, Coupling. R. E. Powers. No. 1,421,556; July 4.
- Centrifugal apparatus. E. Roberts. No. 1,414,526; May 2.
- Centrifugal casting machine. W. F. Wolf. No. 1,415,421; May 9.
- Centrifugal cut-out. J. B. Replogle. No. 1,402,445; Jan. 3.
- Centrifugal decantation. W. Mauss. No. 1,419,285; June 13.
- Centrifugal drier. C. B. Mabee. No. 1,420,650; June 27.
- Centrifugal extractor. F. A. Blake. No. 1,402,206; Jan. 3.
- Centrifugal extractor. W. L. Morris. No. 1,435,545; Nov. 14.
- Centrifugal extractor. J. Prestwich. No. 1,414,525; May 2.
- Centrifugal extractor. S. Prestwick. No. 1,416,125; May 16.
- Centrifugal machine. W. Bartholomew. No. 1,425,628; Aug. 15.
- Centrifugal machine. S. H. Hall. No. 1,422,852; July 18.
- Centrifugal machine. C. H. Hapgood. No. 1,422,856; July 18.
- Centrifugal machine. G. ter Meer. No. 1,408,843; Mar. 7.
- Centrifugal machine. H. H. Stephens. No. 1,412,145; Apr. 11.
- Centrifugal-machine discharger. E. D. Mackintosh. No. 1,431,016; Oct. 3.
- Centrifugal machines, Balancing means for. R. E. Lapham. No. 1,438,768; Dec. 12.
- Centrifugal machines, Brake for. B. R. Wright. No. 1,407,777; Feb. 28.
- Centrifugal machines, Lubricating mounting for. W. Bartholomew. No. 1,432,095; Oct. 17.
- Centrifugal machines, Supporting spindle for. M. Leitch. No. 1,409,958; Mar. 21.
- Centrifugal propeller. H. Hernu. No. 1,408,737; Mar. 7.
- Centrifugal separator. A. Gorneau. No. 1,432,242; Oct. 17.
- Centrifugal separator. S. H. Hall. No. 1,411,782; Apr. 4.
- Centrifugal separator. C. H. Holmgren. No. 1,417,064; May 23.
- Centrifugal separator. C. F. Paul, Jr. No. 1,409,763; Mar. 14.
- Centrifugal separator. E. G. Pearson. No. 1,417,558; May 30.
- Centrifugal separator or amalgamator. R. Thayer. No. 1,423,169; July 18.
- Centrifugal switch. R. S. Hardin and E. W. Wiehle. No. 1,419,626; June 13.
- Centrifugal switch. H. L. Zabriskie. No. 1,403,220; Jan. 10.
- Centrifugals, Method of and means for washing. R. A. Steps. No. 1,423,583; July 25.
- Centrifuge. L. von May. No. 1,410,146; Mar. 21.
- Centrifuge, Self-centering. E. E. F. Fagerström. No. 1,429,725; Sept. 19.
- Ceramic and similar materials and producing same, Joint for articles of. A. O. Austin. No. 1,431,137; Oct. 3.
- Ceramic insulating material. J. A. Jeffery. No. 1,409,953; Mar. 21.
- Ceramic masses into tiles, disks and similar bodies, Machine for working up. E. Gerbel. No. 1,420,093; June 20.
- Ceramic press. H. D. Lillibridge. No. 1,430,019; Sept. 26.
- Ceramic substances and making same, Encrusted metal design on. E. Warrin. No. 1,438,799; Dec. 12.
- Ceramic wares and apparatus therefor, Burning. T. G. McDougal. No. 1,416,726; May 23.
- Ceramic wares, Burning. T. G. McDougal. No. 1,416,727; May 23.
- Cereals, Apparatus for drying and sterilizing. A. Huhn. No. 1,426,385; Aug. 22.
- Cereals, Machine for making steel-cut. J. Le Page. No. 1,437,429; Dec. 5.
- Cereals, Treatment of. J. Prokop. No. 1,439,379; Dec. 19.
- Certificate. F. E. Hamilton. No. 1,429,423; Sept. 19.
- Certificate. E. M. Mason. No. 1,427,161; Aug. 29.
- Cesspool. E. O. Lawrence. No. 1,408,810; Mar. 7.
- Chain. J. H. Cooke. No. 1,421,915; July 4.
- Chain. C. C. Davis. No. 1,421,178; June 27.
- Chain. G. Horvath. No. 1,420,705; June 27.
- Chain. F. W. Lewis. No. 1,405,851; Feb. 7.
- Chain. F. J. Oakes. No. 1,419,891; June 13.
- Chain. J. F. Schott. No. 1,422,790; July 11.
- Chain anchor, Antiskid. C. S. Weimar. No. 1,414,846; May 2.
- Chain, Antiskid. W. H. Lucas, jr. No. 1,427,003; Aug. 22.
- Chain applicator. D. C. Farran. No. 1,404,690; Jan. 24.
- Chain, Bead. C. P. Kuehner. No. 1,406,463; Feb. 14.
- Chain, Bead. C. P. Kuehner. No. 1,414,821; May 2.
- Chain belts, Link for. R. W. Dull. No. 1,403,674; Jan. 17.
- Chain connection. A. P. Griffin. (Reissue.) No. 15,445; Sept. 5.
- Chain connector. A. P. Griffin. No. 1,436,343; Nov. 21.
- Chain connector. R. H. Kerkow. No. 1,435,479; Nov. 14.
- Chain, Conveyer. C. J. Lawson. No. 1,414,424; May 2.
- Chain coupling. J. D. English. No. 1,434,052; Oct. 31.
- Chain coupling. M. J. Frambach. No. 1,405,830; Feb. 7.
- Chain coupling, Mud-. L. A. Pennington. No. 1,414,041; Apr. 25.
- Chain-curbing machine. W. V. Rafferty. No. 1,437,862; Dec. 5.
- Chain device, Pull-. L. V. Aronson. No. 1,434,474; Nov. 7.
- Chain, Die rolling mill for the manufacture of weldless. W. B. Cowles. No. 1,431,443; Oct. 10.
- Chain, Drive. H. S. Pierce. No. 1,431,035; Oct. 3.
- Chain, Emergency cross. E. V. Rawlins. No. 1,409,025; Mar. 7.
- Chain emergency repair link, Cross-. F. A. Bond. No. 1,411,836; Apr. 4.
- Chain, Endless-tread. S. S. Morton. No. 1,427,542; Aug. 29.
- Chain especially designed for jewelry. G. A. Renault. No. 1,439,978; Dec. 26.
- Chain fastener. P. J. Baker. No. 1,427,572; Aug. 29.
- Chain fastener. R. W. Campbell. No. 1,412,919; Apr. 18.
- Chain fastener. R. W. Evans. No. 1,420,372; June 20.
- Chain fastener. J. E. Miller. No. 1,435,126; Nov. 7.
- Chain fastener and link, Combined. C. Hanson. No. 1,440,076; Dec. 26.
- Chain fastener, Auxiliary. G. W. Johnson. No. 1,424,569; Aug. 1.
- Chain fastener, Rim-. J. V. Dever. No. 1,438,224; Dec. 12.
- Chain, Flexible. C. M. Levy. No. 1,426,884; Aug. 22.
- Chain, Hoisting. W. P. Rickard. No. 1,427,642; Aug. 29.
- Chain hook, Antiskid-. A. E. Forseth. No. 1,415,328; May 9.
- Chain latch. E. M. Howg. No. 1,419,565; June 13.
- Chain link. H. Berglund. No. 1,431,771; Oct. 10.
- Chain link. J. Coulter. No. 1,435,700; Nov. 14.
- Chain, Link. W. Hay. No. 1,402,766; Jan. 10.
- Chain link. M. B. Ryan. No. 1,407,043; Feb. 21.
- Chain link. E. W. O. Studel. No. 1,423,273; July 18.
- Chain-link assembler. R. A. Johnson. No. 1,406,740; Feb. 14.

Alphabetical list of inventions—Continued.

- Chain-link construction. E. B. Nichols. No. 1,430,834; Oct. 3.
- Chain-link coupling. J. D. King. No. 1,426,877; Aug. 22.
- Chain-link-forming device. J. Johnson. No. 1,405,785; Feb. 7.
- Chain-link opening and closing device. F. A. Calkins. No. 1,438,216; Dec. 12.
- Chain links, Device for opening and closing. J. McLachlan. No. 1,409,876; Mar. 14.
- Chain links, Implement for making. C. York. No. 1,432,651; Oct. 17.
- Chain lock. A. T. Becker. No. 1,414,065; Apr. 25.
- Chain lock. L. J. Wand. No. 1,423,974; July 25.
- Chain-making machine. E. J. Lyter. No. 1,430,456; Sept. 26.
- Chain-making machine. M. O. Rehfuss. No. 1,405,379; Jan. 31.
- Chain-making machine, Wire-. A. Berg. No. 1,438,474; Dec. 12.
- Chain motor, Endless-. S. Orioka. No. 1,427,544; Aug. 29.
- Chain pipe wrench. A. B. Carll. No. 1,410,993; Mar. 28.
- Chain pipe wrench. G. W. Bufford. No. 1,416,685; May 23.
- Chain shackle and making the same. E. Y. Moore. No. 1,423,244; July 18.
- Chain, Sprocket. C. L. Best. Nos. 1,424,441-2; Aug. 1.
- Chain, Sprocket. L. Bethke. No. 1,426,248; Aug. 15.
- Chain-stitch machine. K. Maier. No. 1,419,462; June 13.
- Chain tightener. R. Golphin. No. 1,439,096; Dec. 19.
- Chain tightener. W. R. Montgomery. No. 1,405,615; Feb. 7.
- Chain tightener. E. H. Nelson. No. 1,407,946; Feb. 28.
- Chain tightener. I. W. Worlow. No. 1,405,248; Jan. 31.
- Chain tightener and clamp, Safety. E. A. Kroh. No. 1,438,766; Dec. 12.
- Chain tightener and hook. J. E. Geiser and W. A. Robinson. No. 1,436,495; Nov. 21.
- Chain tightener, Antiskid-. F. Rightmire. No. 1,405,003; Jan. 31.
- Chain tightening and locking device. V. Kubelka. No. 1,431,012; Oct. 3.
- Chain-tightening tool. M. E. Beltz. No. 1,435,099; Nov. 7.
- Chain tool. R. Bean. No. 1,436,429; Nov. 21.
- Chain tool. A. H. Grant. No. 1,429,731; Sept. 19.
- Chain wheel. H. Stahl. No. 1,412,068; Apr. 11.
- Chain wrench, Flexible. W. L. Bessolo. No. 1,415,772; May 9.
- Chain wrench, Flexible. W. Weston. No. 1,413,306; Apr. 18.
- Chains, Adjustable hook for antiskid. C. D. Cole and W. J. Burr. No. 1,420,816; June 27.
- Chains and the like, Producing hollow wire for manufacturing of. F. Kammerer. No. 1,421,491; July 4.
- Chains, Belt loop for. E. S. Smith. No. 1,415,490; May 9.
- Chains, Correcting the pitch of drive. F. L. Morse. No. 1,405,145; Jan. 31.
- Chains, Fastener for mud. O. F. Saeter and E. O. Harris. No. 1,408,309; Feb. 28.
- Chains, Flight for conveyer. S. V. Tench. No. 1,424,126; July 25.
- Chains, Insulating coupling unit for pull-socket. A. C. Recker. No. 1,419,644; June 13.
- Chains, Link pin for dredger-bucket. A. McMahon. No. 1,429,518; Sept. 19.
- Chains, Repair link for. A. T. Johnson. No. 1,403,905; Jan. 17.
- Chains, Terminal link for skid. A. A. King. No. 1,402,868; Jan. 10.
- Chair: See—
- Barber chair. Infant's nursing chair.
- Camp chair. Motor chair.
- Collapsible chair. Nursery chair.
- Combination chair. Opera chair.
- Concrete beam chair. Rail chair.
- Convertible chair. Rail-joint chair.
- Dental chair. Rail-tie chair.
- Desk and chair. Rocking-chair.
- Fishing chair. Rib chair.
- Folding chair. Shower-bath chair.
- High chair. Theater chair.
- Infant's bath chair. Toilet chair.
- Chair. H. A. Atwood. No. 1,433,694; Oct. 31.
- Chair. V. E. Fixsen. No. 1,412,396; Apr. 11.
- Chair. J. A. Hill. No. 1,437,305; Nov. 28.
- Chair. S. C. Pandolfo. No. 1,406,888; Feb. 14.
- Chair. J. C. Schouten. No. 1,419,947; June 20.
- Chair. A. C. Sladky. No. 1,405,632; Feb. 7.
- Chair. B. P. Textorius. No. 1,439,584; Dec. 19.
- Chair. H. G. Wright. No. 1,432,144; Oct. 17.
- Chair and canopy therefor, Collapsible camp. A. Martin. No. 1,429,043; Sept. 12.
- Chair and couch, Convertible. J. L. McKellar. No. 1,405,931; Feb. 7.
- Chair and crib, Combination baby. R. H. Holmes. No. 1,403,552; Jan. 17.
- Chair and desk or table, Combined. A. H. Thompson. (Reissue). No. 15,296; Feb. 28.
- Chair and seat, Reclining adjustable. A. E. Gell. No. 1,414,637; May 2.
- Chair and table, Combination. F. A. Robinson. No. 1,435,740; Nov. 14.
- Chair and table, Convertible. T. B. Worthington. No. 1,425,354; Aug. 8.
- Chair attachment. D. E. Hayes. No. 1,433,134; Oct. 24.
- Chair attachment, Removable. A. R. Goldsmith. No. 1,429,867; Sept. 19.
- Chair base. R. K. Dawson. No. 1,422,933; July 18.
- Chair base. T. W. Foote. No. 1,417,316; May 30.
- Chair construction, Willow. W. Rehe. No. 1,412,197; Apr. 11.
- Chair, Folding. F. Lahm. No. 1,404,449; Jan. 24.
- Chair, Folding. M. Mendelson. No. 1,404,537; Jan. 24.
- Chair, Folding. N. C. Zirwes. No. 1,424,704; Aug. 1.
- Chair for children, Walking. A. Herson. No. 1,437,179; Nov. 28.
- Chart, Graphical. W. W. Smythe, Jr. No. 1,405,169; Jan. 31.
- Chair, Infant's nursing. H. C. Daniel. No. 1,403,543; Jan. 17.
- Chair interchangeable for use as chair or back support, Folding. J. A. Bell. No. 1,409,816; Mar. 14.
- Chair, ironing board, and stepladder, Combination. J. R. New. No. 1,439,437; Dec. 19.
- Chair or seat. H. J. Barrett. No. 1,419,006; June 6.
- Chair or the like, Foldable. W. Heerling. No. 1,421,779; July 4.
- Chair seat. J. E. Lambeth. No. 1,411,635; Apr. 4.
- Chair, table, and the like. J. Mathieu. No. 1,408,114; Feb. 28.
- Chairs, Adjustable leg rest for. L. Aimé. No. 1,440,329; Dec. 26.
- Chairs, Attachment for reclining. J. J. Hogan. No. 1,427,292; Aug. 29.
- Chairs, Attachment for rocking. S. Toth. No. 1,435,432; Nov. 14.
- Chairs, Detachable arm for reclining. J. J. Hogan. No. 1,420,924; June 27.
- Chairs, Detachable tray for high. C. J. Snideman. No. 1,428,916; Sept. 12.
- Chairs, Garment-supporting attachment for the arms of theater. F. I. Littlefield. No. 1,438,538; Dec. 12.
- Chairs, Holding attachment for baby. F. E. Smith. No. 1,435,425; Nov. 14.
- Chairs, Jointed reclining bar for adjustable. W. F. Koken. No. 1,437,060; Nov. 28.
- Chairs, Leg rest for rocking. L. Aime. No. 1,412,641; Apr. 11.
- Chairs, Sanitary tray for high. T. M. Rappel. No. 1,420,061; June 20.
- Chairs, Tablette for. B. W. Blauert. No. 1,414,452; May 2.
- Chalk holder. L. L. S. Bashore. No. 1,427,712; Aug. 29.
- Chamber spring attachment. L. R. H. Dick. No. 1,416,177; May 16.
- Chandelier. R. Growald. No. 1,408,588; Mar. 7.
- Chandelier. E. Unger. No. 1,406,508; Feb. 14.
- Change computer. P. E. Kopp. No. 1,410,195; Mar. 21.
- Change maker. W. Meyer. No. 1,413,756; Apr. 25.
- Change making and registering machine. E. D. Votaw. No. 1,429,307; Sept. 19.
- Change-making device. H. A. Wrenn and J. X. Phillips, Jr. No. 1,409,990; Mar. 21.
- Change-making machine. S. J. Bell. No. 1,424,439; Aug. 1.
- Change-speed mechanism. E. Desmoulins. No. 1,407,643; Feb. 21.
- Channel-flap-laying machine. L. J. Morrison. No. 1,415,946; May 16.
- Channel-opening machine. J. E. Jackson. No. 1,407,037; Feb. 21.
- Chaplets, Machine for making. R. P. Throne. No. 1,423,586; July 25.
- Charcoal, Apparatus for making active. T. L. Wheeler. No. 1,413,146; Apr. 18.
- Charcoal furnace. B. Brantley. No. 1,427,055; Aug. 22.
- Charcoal, Treating. H. J. Haber. No. 1,407,531; Feb. 21.
- Charge-forming device. D. R. Wills. No. 1,408,671; Mar. 7.
- Charging and discharging device. J. A. Anderson. No. 1,408,430; Mar. 7.
- Charging rack. R. E. Powell. No. 1,425,689; Aug. 15.
- Chart. W. R. Williamson. No. 1,418,765; June 6.
- Chart and blackboard, Combined. S. C. Foster. No. 1,432,175; Oct. 17.
- Chart, Computing. C. B. Smith. No. 1,402,803; Jan. 10.
- Chart, Educational. M. M. Hyland. No. 1,439,551; Dec. 19.
- Chart, Efficiency and educational. J. L. Bowles, Jr. No. 1,419,809; June 13.
- Chart for securities, Calculation. M. A. Darville. No. 1,413,973; Apr. 25.
- Chart holder. J. O. Trautwein. No. 1,416,141; May 16.
- Chart, Hospital. F. M. Eckes. No. 1,419,831; June 13.
- Chart, Music. V. B. Willoughby. No. 1,412,587; Apr. 11.
- Chart, Ocular testing. M. H. Tallman. No. 1,412,902; Apr. 18.
- Chartometer. W. E. C. Petersen. No. 1,416,380; May 16.
- Chart, Phenological. F. C. Newell, Jr. No. 1,410,342; Mar. 21.
- Chart system, Demurrage. J. H. Ross. No. 1,431,543; Oct. 10.
- Chart, Waterway. G. W. R. Harriman. No. 1,429,285; Sept. 19.
- Charts, Retainer for indicator record. T. J. Menten. No. 1,414,296; Apr. 25.

- Chaser-adjusting tool. T. H. Lloyd. No. 1,415,182; May 9.
- Chasing machine. J. C. Wahl. No. 1,415,211; May 9.
- Chassis and spring protector. I. B. Bliss. No. 1,405,663; Feb. 7.
- Chassis lubrication. M. Olley. No. 1,438,393; Dec. 12.
- Chassis, Motor-vehicle. C. A. Ward. No. 1,410,231; Mar. 21.
- Check. A. C. Goosman. No. 1,409,706; Mar. 14.
- Check. U. Kawasaki. No. 1,403,168; Jan. 10.
- Check and closer, Combined. R. R. Rundell. No. 1,425,900; Aug. 15.
- Check and money-order case. G. Henry. No. 1,420,260; June 20.
- Check and stub, Bank. D. L. Sterling. No. 1,423,744; July 25.
- Check, Baggage. P. J. Eagan. No. 1,420,991; June 27.
- Check, Bank. A. F. Collins. No. 1,407,256; Feb. 21.
- Check, Bank. F. W. Hines. No. 1,414,279; Apr. 25.
- Check, Bank. A. S. Prokopovitch. No. 1,431,038; Oct. 3.
- Check, Creep. L. O. Henggi. (Reissue.) No. 1,542,1; July 25.
- Check dispenser. A. F. Cook. No. 1,405,495; Feb. 7.
- Check, Drop-cover. G. E. Rudnick. (Reissue.) No. 1,535,0; May 9.
- Check guard. V. Chelena. No. 1,406,611; Feb. 14.
- Check holder. J. B. Larkin. No. 1,421,262; June 27.
- Check holder and notching device, Sales-. C. A. Erickson. No. 1,419,620; June 13.
- Check holder and punch. T. R. F. Potter. No. 1,417,564; May 30.
- Check holder and punch, Sales-. C. A. Erickson. No. 1,419,621; June 13.
- Checking blank and receipt, Conductor's. R. C. Laurier and F. Monette. No. 1,408,523; Mar. 7.
- Check issuing and printing mechanism. W. D. McCoy. No. 1,435,171; Nov. 14.
- Check-link mechanism. E. G. Thomas. No. 1,404,809; Jan. 31.
- Check or account book. J. L. Davis. No. 1,417,977; May 30.
- Check, Parcel. C. T. Petty. No. 1,402,178; Jan. 3.
- Check, Picker-stick. W. M. Patterson. No. 1,417,557; May 30.
- Check protector. A. B. Hines. No. 1,416,639; May 16.
- Check protector. C. C. McCombs. No. 1,423,236; July 18.
- Check protector. J. J. O'Brien. No. 1,402,531; Jan. 3.
- Check-stub holder. A. A. Froehlingsdorf. No. 1,414,269; Apr. 25.
- Check-writing machine. T. J. Hyman. No. 1,430,014; Sept. 26.
- Checks and like instruments, Perforating device for protecting. A. F. Collins. No. 1,407,257; Feb. 21.
- Checks, Combined holder and punch for. C. A. Erickson. No. 1,431,641; Oct. 10.
- Checks, receipts, etc., against alterations, Apparatus for protecting. J. I. Robin. No. 1,413,787; Apr. 25.
- Checker bar. J. H. Sample. No. 1,426,112; Aug. 15.
- Checkerwork support. E. G. Whelpley. No. 1,438,349; Dec. 12.
- Cheese, Forming. J. R. Meyers. No. 1,415,942; May 16.
- Cheese hoop. A. F. Stoeltig. No. 1,436,325; Nov. 21.
- Cheese-hoop follower. T. Doyle. No. 1,436,339; Nov. 21.
- Cheese, Making. J. R. Meyers. No. 1,415,943; May 16.
- Cheese mold. A. W. Braun. No. 1,430,934; Oct. 3.
- Cheese mold. S. Fieldman. No. 1,418,242; May 30.
- Cheese mold. J. R. Meyers. No. 1,402,782; Jan. 10.
- Cheese mold. J. R. Meyers. No. 1,434,396; Nov. 7.
- Cheese packing. J. R. Meyers. No. 1,415,944; May 16.
- Cheese press. Z. Jaruga. No. 1,434,843; Oct. 31.
- Cheese ring. T. A. Rohde. No. 1,411,066; Mar. 28.
- Cheese, Treating. P. Malekow. No. 1,428,602; Sept. 12.
- Chemical and assay balance. D. McIntosh. No. 1,437,768; Dec. 5.
- Chemical and physical operations, Apparatus for use in connection with. A. T. Stuart and G. N. Middleton. No. 1,417,585; May 30.
- Chemical apparatus. W. H. Mahler. No. 1,405,733; Feb. 7.
- Chemical closet. M. Cone. No. 1,412,553; Apr. 11.
- Chemical composition. C. S. Eppley. No. 1,417,047; May 23.
- Chemical compound. M. E. Wolvekamp. No. 1,412,440; Apr. 11.
- Chemical fusions and making same, Blanketing medium for. H. H. Dow. No. 1,411,421; Apr. 4.
- Chemical-laboratory apparatus. E. C. Abrahadian. No. 1,435,367; Nov. 14.
- Chemical reactions, Apparatus for use in effecting. H. W. Paulus. Nos. 1,420,210-11; June 20.
- Chemical reactions by means of amalgams, Apparatus for effecting. H. W. Paulus. No. 1,411,507; Apr. 4.
- Chemical reactions, Increasing speed in. H. B. Kipper. No. 1,435,928; Nov. 21.
- Chemical reactions, Method and apparatus for electrically promoting. E. R. Wolcott. No. 1,402,128; Jan. 3.
- Chemical rectifier. T. M. Lane. No. 1,409,383; Mar. 14.
- Chemical that should be added per unit of volume of water in order to fit it for use in the arts, Determining the quantity of an appropriate. C. W. Rice. No. 1,405,940; Feb. 7.
- Cherries and other fruit, Machine for stemming. F. Thomas. No. 1,432,137; Oct. 17.
- Cherry pitter. H. P. Berndt. No. 1,432,012; Oct. 17.
- Cherry pitter. G. O. Lawton. No. 1,428,789; Sept. 12.
- Cherry-stemming machine. H. C. Hachmuth. No. 1,403,946; Jan. 17.
- Chicken feeder. O. M. Bennett. No. 1,417,226; May 23.
- Chickens and other edible fowl for cooking and eating, Preparing. H. E. Knaust. No. 1,433,628; Oct. 31.
- Child's block. G. J. Jervis. No. 1,430,557; Oct. 3.
- Chill. J. W. Fay. No. 1,435,919; Nov. 21.
- Chill. W. I. Smith. No. 1,421,596; July 4.
- Chilling and freezing animal substances. J. C. Shaw. No. 1,422,627; July 11.
- Chilling and freezing animal substances, Apparatus or plant for. J. C. Shaw. No. 1,422,628; July 11.
- Chime-striking action. L. D. Morris. No. 1,415,256; May 9.
- Chimney. W. H. Branstons. No. 1,437,222; Nov. 28.
- Chimney. A. J. Filkins. No. 1,430,068; Sept. 26.
- Chimney cleaner. A. H. Sharp and W. D. Cockrell. No. 1,422,001; July 4.
- Chimney cleaner. J. J. Spillane. No. 1,436,784; Nov. 28.
- Chimney-flue liner. F. Seifert. No. 1,415,199; May 9.
- Chimney-lift head. A. J. Kieckhefer. No. 1,434,825; Nov. 7.
- Chimneys and open fireplaces, Lining for. H. Harvey. No. 1,416,350; May 16.
- Chimneys of reinforced concrete, Mold for building. J. Quost. No. 1,424,775; Aug. 8.
- Chinaware or the like during manufacture, Device for supporting. T. Allsop and W. W. Sibson. No. 1,412,592; Apr. 11.
- Chip breaker. F. L. Lane. No. 1,402,938; Jan. 10.
- Chips, Machine for reducing turning. J. Bing. No. 1,415,861; May 16.
- Chipping machine. A. Heisler. No. 1,408,735; Mar. 7.
- Chiropactic outfit. R. L. Watts. No. 1,413,547; Apr. 18.
- Chiropactic sanitary paper container. N. Sandals. No. 1,416,882; May 23.
- Chiropactic table. E. Bowman. No. 1,429,709; Sept. 19.
- Chiropactic table. E. J. Rantz. No. 1,439,445; Dec. 19.
- Chiropactic table. H. F. Stowe. No. 1,426,422; Aug. 22.
- Chiropactic table, Tiltable. W. G. Williams. No. 1,435,037; Nov. 7.
- Chiropactic table. G. C. Wilson. No. 1,437,877; Dec. 5.
- Chisel handle. A. L. Zetterman. No. 1,409,638; Mar. 14.
- Chloracetones, Separation of. H. E. Buc. No. 1,436,940; Nov. 28.
- Chloride from isopropyl alcohol, Producing isopropyl. H. E. Buc. No. 1,436,377; Nov. 21.
- Chloridizing apparatus. E. W. Wescott. No. 1,406,596; Feb. 14.
- Chloridizing process and apparatus. F. S. Low. No. 1,430,454; Sept. 26.
- Chlorinated products of toluene and dyestuffs therefrom, Manufacture or production of. J. Schmidlin. No. 1,428,984; Sept. 12.
- Chlorinating gaseous hydrocarbons and recovering products therefrom. G. O. Curme, Jr. No. 1,422,838; July 18.
- Chlorine derivatives of hexamethylenetetramine. R. Buratti. No. 1,416,606; May 16.
- Chlorine, Drying. G. A. Richter. No. 1,431,981; Oct. 17.
- Chlorine products from unsaturated hydrocarbons, Producing. A. E. Maze. No. 1,425,669; Aug. 15.
- Chloropicrin, Making. O. R. Sweeney. No. 1,413,198; Apr. 18.
- Chlorosulphonic acid. T. L. Briggs. No. 1,422,335; July 11.
- Chock block. F. Arn. No. 1,403,535; Jan. 17.
- Chocolate and similar products, Machine for molding. L. Levy. No. 1,425,395; Aug. 8.
- Chocolate beater. W. C. Le Petrie. No. 1,433,959; Oct. 31.
- Chocolate-candy cogler. S. Dempsey. No. 1,414,553; May 2.
- Choke controller. J. J. Richards. No. 1,432,789; Oct. 24.
- Chocolate or other material, Machine for mixing. A. Sonsthagen. No. 1,426,118; Aug. 15.
- Chopper. See—
Cotton chopper. Meat chopper.
Food chopper.
- Christmas-tree stand. S. Zelazo. No. 1,421,340; June 27.
- Christmas-tree support. C. L. Burchess. No. 1,421,398; July 4.
- Chromatope. J. S. Ewart and W. E. Clifton. No. 1,420,982; June 27.
- Chromium compounds of azo dyestuffs. J. Grimmer and F. Straub. No. 1,402,350; Jan. 3.
- Chromium, Treating iron ore for the recovery of. F. A. Eustis. No. 1,403,237; Jan. 10.
- Chronograph. A. L. Loomis. No. 1,409,304; Mar. 14.
- Chuck. J. A. Axelsson. No. 1,426,704; Aug. 22.
- Chuck. W. A. Barker. Nos. 1,429,395-6; Sept. 19.
- Chuck. D. L. Bisset. No. 1,426,541; Aug. 22.
- Chuck. F. E. Bright. No. 1,420,682; June 27.
- Chuck. W. B. Bronander. No. 1,424,235; Aug. 1.
- Chuck. J. H. Burke and O. A. Wilming. No. 1,402,144; Jan. 3.
- Chuck. R. K. Davis. No. 1,427,785; Sept. 5.
- Chuck. H. C. Elvers. No. 1,406,451; Feb. 14.
- Chuck. G. A. Englund. No. 1,417,981; May 30.
- Chuck. D. N. Finlayson. No. 1,424,889; Aug. 8.
- Chuck. R. Grace. No. 1,413,330; Apr. 18.
- Chuck. W. A. Hatcher. No. 1,408,594; Mar. 7.
- Chuck. W. L. McLean. No. 1,431,533; Oct. 10.

Alphabetical list of inventions—Continued.

- Chuck. J. Schwahlen. No. 1,410,080; Mar. 21.
 Chuck. C. F. Sherman. No. 1,410,612; Mar. 28.
 Chuck. H. E. Sloan. No. 1,424,597; Aug. 1.
 Chuck. L. E. Stoner. No. 1,420,780; June 27.
 Chuck and making same, Magnetic. R. L. Morgan. No. 1,414,522; May 2.
 Chuck and tool holder. T. C. Foley. No. 1,420,029; June 20.
 Chuck apparatus. H. W. Koehler. No. 1,414,190; Apr. 25.
 Chuck, Automatic. H. F. Wolnick and R. Hervig. No. 1,432,225; Oct. 17.
 Chuck, Bipolar magnetic. F. L. Simmons. No. 1,415,723; May 9.
 Chuck, Collet. F. W. Iggsberg. No. 1,403,415; Jan. 10.
 Chuck, Collet. J. L. Kreusler and F. R. Ferguson. No. 1,407,760; Feb. 28.
 Chuck, Collet. J. A. Olson. No. 1,407,213; Feb. 21.
 Chuck collet. E. L. Pfunder. No. 1,413,680; Apr. 25.
 Chuck, Draw-in. J. W. Heald. No. 1,413,161; Apr. 18.
 Chuck, Drill. A. Kipniss. No. 1,405,921; Feb. 7.
 Chuck, Drill. C. A. Palmgren. No. 1,425,213; Aug. 8.
 Chuck, Drill. F. C. Shore. No. 1,415,720; May 9.
 Chuck, Floating tool. H. J. Watts. No. 1,424,535; Aug. 1.
 Chuck, Flying. A. E. Waller. No. 1,420,794; June 27.
 Chuck for lathes, etc. J. W. Heigh. No. 1,417,169; May 23.
 Chuck for metal-working machines. J. C. Potter. No. 1,433,032; Oct. 24.
 Chuck for screw machines, Automatic. C. F. Whitman. No. 1,425,226; Aug. 8.
 Chuck for tool-operating machines. D. C. Robinson. No. 1,415,119; May 9.
 Chuck, Internal. J. Gastener. No. 1,407,145; Feb. 21.
 Chuck, Internal. J. O. Kahl. No. 1,428,100; Sept. 5.
 Chuck, Magnetic. O. Coradi and H. Graf-Buchler. No. 1,412,776; Apr. 11.
 Chuck, Magnetic. F. L. Simmons. No. 1,435,946; Nov. 21.
 Chuck, Pneumatic. M. D. Becker. No. 1,430,050; Sept. 26.
 Chuck retainer, Bit. F. A. Jimerson. No. 1,412,469; Apr. 11.
 Chuck, Ring. J. R. Ueckert. No. 1,428,868; Sept. 12.
 Chuck, Roll. C. R. Mueller. No. 1,411,292; Apr. 4.
 Chuck, Tool. J. Carr. No. 1,428,754; Sept. 12.
 Chuck, Tool. O. M. Jansen. No. 1,430,556; Oct. 3.
 Chuck, Watchmaker's compound lathe. A. Gotsdanker. No. 1,411,082; Mar. 28.
 Chuck, Watch winding. B. J. Brown. No. 1,434,990; Nov. 7.
 Chucks, Aluminum body for magnetic. F. L. Simmons. No. 1,433,568; Oct. 31.
 Chucks, Switch for magnetic. F. L. Simmons. No. 1,402,802; Jan. 10.
 Chucking machine, Automatic. H. A. Schwartz. Nos. 1,404,657-8; Jan. 24.
 Chucking or turning machine and the like machine tool, Semiautomatic. A. and A., Jr., and H. Butterworth. No. 1,402,397; Jan. 3.
 Churn. J. F. Bertram. No. 1,429,319; Sept. 19.
 Churn. A. Bogdanski. No. 1,436,642; Nov. 28.
 Churn. C. P. Brooks. No. 1,409,823; Mar. 14.
 Churn. D. W. Davis. No. 1,406,543; Feb. 14.
 Churn. N. P. Dazey. No. 1,406,619; Feb. 14.
 Churn. R. M. Ellis. No. 1,408,994; Mar. 7.
 Churn. S. F. Ellis. No. 1,434,331; Oct. 31.
 Churn. T. Flory. No. 1,420,537; June 20.
 Churn. M. D. Gibson. No. 1,415,334; May 9.
 Churn. M. L. Kelly. No. 1,428,438; Sept. 5.
 Churn. E. A. Perreton. No. 1,402,885; Jan. 10.
 Churn. W. F. Stewart. No. 1,427,567; Dec. 5.
 Churn and butter worker, Combined. H. Feldmeier and C. B. Dalzell. No. 1,419,033; June 6.
 Churn and clothes washer, Combined. J. Pipes. No. 1,435,976; Nov. 21.
 Churn covers, Lock for. T. L. Valerius and O. Larsen. No. 1,430,202; Sept. 26.
 Churn dasher. A. B. Wever. No. 1,409,267; Mar. 14.
 Churn. Double-acting adjustable. P. Iverson. No. 1,408,511; Mar. 7.
 Churn or agitator. A. C. Gilbert. No. 1,435,289; Nov. 14.
 Churn, Power-operated. J. M. Rodger. No. 1,421,571; July 4.
 Churn stand. C. A. Kibbe. No. 1,402,620; Jan. 3.
 Churns, Dasher mechanism for. W. Bird. No. 1,420,955; June 27.
 Churns, Moisture indicator for. F. Harper. No. 1,409,851; Mar. 14.
 Chute. W. J. Freeze. No. 1,439,541; Dec. 19.
 Chute. E. Pierce. No. 1,440,316; Dec. 26.
 Chute, Automatically-closing. J. C. Thill. No. 1,405,955; Feb. 7.
 Chute, Coal. D. P. Mahoney. No. 1,432,074; Oct. 17.
 Chute, Coal. J. E. McMin. No. 1,438,124; Dec. 5.
 Chute, Coal. E. E. Neal. No. 1,423,872; July 25.
 Chute, Cotton. W. L. Hancock. No. 1,436,091; Nov. 21.
 Chute, Discharge. R. E. Gibson and H. Nicoll. No. 1,424,010; July 25.
 Chute-gate operating mechanism. I. D. Landis. No. 1,417,611; May 30.
 Chute-opening mechanism, Power-driven. S. Shafer, Jr. No. 1,415,411; May 9.
 Chute support. G. Buchan, sr. No. 1,423,643; July 25.
 Chute, Waste. J. F. Hartley. No. 1,416,022; May 16.
 Chute, Waste. E. R. Leonard. No. 1,436,452; Nov. 21.
 Chutes, Automatic gate for delivery. S. T. Hoyt and J. S. Napier. No. 1,418,573; June 6.
 Chutes, Operating mechanism for. S. Shafer, Jr. No. 1,415,410; May 9.
 Chutes, Yielding actuating mechanism for skip hoist. P. H. Beaumont. No. 1,411,831; Apr. 4.
 Cider press. H. H. Stewart. No. 1,419,700; June 13.
 Cigar. R. S. Blair. No. 1,437,956; Dec. 5.
 Cigar and cigarette ash retainer. C. H. Kattenberg. No. 1,422,578; July 11.
 Cigar and cigarette holder. R. F. Greenwood. No. 1,425,498; Aug. 8.
 Cigar band. O. Kampfe. No. 1,402,513; Jan. 3.
 Cigar-banding machine. I. A. Hardy. No. 1,409,375; Mar. 14.
 Cigar-banding machine. R. D. Schoenwetter. Nos. 1,416,982-3; May 23.
 Cigar, band label, and applying same, Banded. G. J. Nagel. No. 1,405,148; Jan. 31.
 Cigar-box-lid holder. F. D. Pelot. No. 1,415,388; May 9.
 Cigar case. R. H. Gaede. No. 1,430,637; Oct. 3.
 Cigar cutter. E. B. Field and A. F. Hunt. No. 1,434,599; Nov. 7.
 Cigar-holder case, pipe case, or similar receptacle. J. N. Whitehouse. No. 1,417,121; May 23.
 Cigar lighter. F. W. Strubing. No. 1,417,422; May 23.
 Cigar lighter, Electric. M. H. Spielman. No. 1,436,299; Nov. 21.
 Cigar maker's knife. L. Santana. No. 1,414,098; Apr. 25.
 Cigar or cigarette holder. S. W. Pollock. No. 1,410,954; Mar. 28.
 Cigar-packing device. I. Magidson, J. Arenz, and O. Pfefferkorn. No. 1,410,109; Mar. 21.
 Cigar-packing device. F. X. Malocsay. Nos. 1,403,046-7; Jan. 10.
 Cigar rest. L. Allen. No. 1,423,507; July 25.
 Cigar tray. J. F. and W. B. Alsip. No. 1,439,351; Dec. 19.
 Cigar wrapper. R. S. Reynolds. No. 1,430,028; Sept. 26.
 Cigar wrappings, Structure for operating upon. A. E. Massons. No. 1,417,933; May 30.
 Cigars and other articles, Shipping receptacle for. R. H. Eddy. No. 1,428,016; Sept. 5.
 Cigars in glass tubes, Method and package for. E. Valens. No. 1,426,792; Aug. 22.
 Cigars, Slitting attachment for. W. M. Jackson. (Re-issue). No. 15,422; July 25.
 Cigarette and cigar holder. M. B. Robinson. No. 1,405,869; Feb. 7.
 Cigarette and match case, Combination. W. H. Frederick. No. 1,417,160; May 23.
 Cigarette box. G. F. Hall. No. 1,419,375; June 13.
 Cigarette case. S. Berger. No. 1,413,331; Apr. 18.
 Cigarette case. D. H. Butler. No. 1,409,665; Mar. 14.
 Cigarette case. W. P. J. Hagarty. No. 1,407,746; Feb. 28.
 Cigarette case. S. Holtzclaw. No. 1,422,975; July 18.
 Cigarette case. J. F. Mceller. No. 1,403,464; Mar. 7.
 Cigarette case, Wooden. W. Kimbel. No. 1,429,743; Sept. 19.
 Cigarette case, Wrist. C. C. Fenno. No. 1,434,775; Nov. 7.
 Cigarette holder. T. Duncan. No. 1,422,347; July 11.
 Cigarette holder. J. B. Ingalls. No. 1,419,141; June 13.
 Cigarette holder. L. J. Remy. No. 1,435,023; Nov. 7.
 Cigarette machines, Driving mechanism for. E. D. Smith. No. 1,425,801; Aug. 15.
 Cigarette making device. R. S. Pullen. No. 1,411,933; Apr. 4.
 Cigarette-making device. W. Sweeney. No. 1,413,809; Apr. 25.
 Cigarette-making machine. G. E. Irving. No. 1,438,309; Dec. 12.
 Cigarette or cigar holder. W. Rumble, Jr. No. 1,415,404; May 9.
 Cigarette package. E. L. Sohn. No. 1,427,977; Sept. 5.
 Cigarette packages, Attachment for. H. F. Berthman. No. 1,440,270; Dec. 26.
 Cigarette papers, Combined tobacco box and holder for. B. Clark. No. 1,413,391; Apr. 18.
 Cigarette receptacle. J. I. Fazio. No. 1,436,157; Nov. 21.
 Cigarette roller. F. Clifford. No. 1,419,224; June 13.
 Cigarette stand. W. E. Edwards. No. 1,429,229; Sept. 19.
 Cigarettes and the like, Case for. W. H. Lester. No. 1,424,834; Aug. 8.
 Cigarettes, Apparatus for collecting and conveying. W. E. Molins. No. 1,422,000; July 11.
 Cigarettes, Machine for packing. G. Örström. Nos. 1,403,098-9; Jan. 10.
 Cigarettes, Machine for the elaboration of. A. Victorero. No. 1,439,345; Dec. 19.
 Cigarettes or similar articles, Machine for packing. G. Örström. No. 1,432,355; Oct. 17.
 Cigarettes, Package for. P. R. Walters. No. 1,407,105; Feb. 21.
 Cinema and analogous projection apparatus. M. Delume. No. 1,417,807; May 30.
 Cinema films, Rotary machine for producing positive copies of negative. A. de Brayer. No. 1,432,676; Oct. 17.

- Cinematic process, Method and apparatus for sorting particles of solid divided material by a. W. N. Dimmick. No. 1,435,382; Nov. 14.
- Cinematograph. J. Szczepanik. No. 1,423,697; July 25.
- Cinematograph apparatus. J. T. Wells. No. 1,438,278; Dec. 12.
- Cinematograph color projector. H. Stewart and R. Killick. No. 1,427,131; Aug. 29.
- Cinematograph film and the like, Reel for. E. J. Way. No. 1,432,647; Oct. 17.
- Cinematograph film, Delivering and winding. E. J. Way. No. 1,415,131; May 9.
- Cinematograph films for exhibition, Delivering. E. J. Way. No. 1,429,469; Sept. 19.
- Cinematograph machine. I. Sutherland. No. 1,426,614; Aug. 22.
- Cinematograph machines, Automatic safety shutter for. J. J. Gschwender. No. 1,426,630; Aug. 22.
- Cinematograph projecting apparatus, Safety device for. F. Stein. No. 1,415,494; May 9.
- Cinematograph safety control apparatus. R. M. Geyer and W. H. Tripp. No. 1,439,091; Dec. 19.
- Cinematographic apparatus. C. E. Carter. No. 1,412,508; Apr. 11.
- Cinematographic apparatus. E. Mechau. No. 1,421,523; July 4.
- Cinematographic apparatus. H. W. Webb. No. 1,409,265; Mar. 14.
- Cinematographic apparatus. W. B. Wescott. No. 1,417,005; May 23.
- Cinematographic apparatus, Supporting device for. P. S. Gauriat. No. 1,418,640; June 6.
- Cinematographic exhibition, Taking an orchestra conductor for. E. Wolff. No. 1,422,909; July 18.
- Cinematographic film. S. Kucharski. No. 1,423,770; July 25.
- Cinematographic films, Apparatus for the production of colored. S. de Procoudine-Gorsky. No. 1,412,089; Apr. 11.
- Cinematographic films, Differential development of color. P. D. Brewster. No. 1,410,884; Mar. 28.
- Cinematographic films, Liquid treatment of. L. T. Troland, J. A. Ball, and J. M. Andrews. No. 1,435,764; Nov. 14.
- Cinematographic films, Means for moving. E. A. Larsson. No. 1,406,876; Feb. 14.
- Cinematographic films, Process and apparatus for producing. L. Sawyer. No. 1,402,541; Jan. 3.
- Cinematographic machine. C. E. Carter. No. 1,412,509; Apr. 11.
- Cinematographic multiplex printing. W. B. Wescott. No. 1,409,628; Mar. 14.
- Cinematographic projection, Apparatus for. K. Higginson. No. 1,409,107; Mar. 7.
- Cinematographic projections, Device to obtain stereoscopic effects in. F. Lehnhoff-Wyld. No. 1,419,901; June 13.
- Cinematographic projections in natural colors, Producing. W. Späth. No. 1,430,765; Oct. 3.
- Cinematographic projectors, Magazine for. M. E. Myers. No. 1,424,735; Aug. 1.
- Cinematographic screen. J. M. Ogilvie. No. 1,426,317; Aug. 15.
- Cinematographs, Fire-extinguishing apparatus for. W. Taylor. No. 1,429,548; Sept. 19.
- Cinematographs, Lighting system for. A. Köhler. No. 1,428,103; Sept. 5.
- Cinematography, Color. T. A. Mills. No. 1,407,875; Feb. 28.
- Cinematography in natural colors. L. Mauclair. No. 1,421,279; June 27.
- Ciphering device. L. F. Morehouse. No. 1,415,106; May 9.
- Ciphering device. R. E. Pierce. No. 1,426,669; Aug. 22.
- Ciphering device. G. S. Vernam. No. 1,416,765; May 23.
- Circle brace. W. H. Burstell. No. 1,419,541; June 13.
- Circuit breaker. J. P. Arndt. No. 1,403,373; Jan. 10.
- Circuit breaker. J. P. Arndt. No. 1,404,564; Jan. 24.
- Circuit breaker. H. E. Borger. No. 1,436,693; Nov. 28.
- Circuit breaker. H. P. Donle. No. 1,431,220; Oct. 10.
- Circuit breaker. S. C. McKeown. No. 1,402,519; Jan. 3.
- Circuit breaker. B. M. Mooers and L. E. Warner. No. 1,414,659; May 2.
- Circuit breaker. B. M. Mooers and L. E. Warner. No. 1,431,678; Oct. 10.
- Circuit breaker and controlling mechanism. R. Varley. No. 1,438,002; Dec. 5.
- Circuit breaker, Automatic. K. G. L. Högel. No. 1,433,277; Oct. 24.
- Circuit breaker, Automatic. H. R. Kissinger. No. 1,424,921; Aug. 8.
- Circuit breaker, Automatic. N. E. and O. Nelson. No. 1,435,870; Nov. 14.
- Circuit breaker, Electric. G. F. Hunter. No. 1,438,308; Dec. 12.
- Circuit breaker, Extra-quick-acting. E. Vedovelli. No. 1,428,821; Sept. 12.
- Circuit breaker, Low-voltage. E. G. Johnson. No. 1,431,956; Oct. 17.
- Circuit breaker, Overload. C. B. Coates. Nos. 1,439,692-3; Dec. 26.
- Circuit-breaker-tripping structure. T. B. Eastburn. No. 1,426,467; Aug. 22.
- Circuit-breaker-tripping structure. W. M. Scott. No. 1,425,700; Aug. 15.
- Circuit-breaking device, Automatic. E. Johnson. No. 1,434,344; Oct. 31.
- Circuit-changing switch. Z. R. D. Veneria. No. 1,410,855; Mar. 28.
- Circuit, Closed grinding-. C. Allen. No. 1,408,155; Feb. 28.
- Circuit closer. D. S. Holt. No. 1,410,308; Mar. 21.
- Circuit closer, Automatic. W. Zinger. No. 1,412,501; Apr. 11.
- Circuit closer, Float-operated. H. R. Mitchell. No. 1,435,411; Nov. 14.
- Circuit closer, Thermostatic. C. M. Littleton. No. 1,432,113; Oct. 17.
- Circuit-closing mechanism. F. W. Stalker, F. K. Taylor, and L. B. Swift. No. 1,435,186; Nov. 14.
- Circuit connection of electron-discharge apparatus. R. A. Heising. No. 1,432,022; Oct. 17.
- Circuit connector. H. A. Douglas. No. 1,422,257; July 11.
- Circuit controller. C. L. Dubois and C. Reynold. No. 1,437,047; Nov. 28.
- Circuit controller. B. W. Jones. No. 1,431,308; Oct. 10.
- Circuit controller. W. Zabel. No. 1,413,820; Apr. 25.
- Circuit controller, Combination. H. V. Bell. No. 1,428,413; Sept. 5.
- Circuit controller, Fluid-actuated. G. P. McDonnell. No. 1,428,645; Sept. 12.
- Circuit controller, Ignition-. G. H. Whittingham. Nos. 1,414,912-13; May 2.
- Circuit-controlling mechanism. F. O. Hartman. No. 1,424,402; Aug. 1.
- Circuit, Device for translating the effects of sound vibrations into variations in an electrical. C. A. Finley. No. 1,406,833; Feb. 14.
- Circuit distributor. R. N. Griswold. No. 1,407,266; Feb. 21.
- Circuit interrupter. C. Aalborg and A. H. Bakken. No. 1,437,079; Nov. 28.
- Circuit interrupter. G. L. Christman and J. MacNeill. No. 1,427,358; Aug. 29.
- Circuit interrupter. L. W. Chubb. No. 1,421,170; June 27.
- Circuit interrupter. C. L. Fortescue. No. 1,427,369; Aug. 29.
- Circuit interrupter. C. L. Fortescue. No. 1,429,278; Sept. 19.
- Circuit interrupter. C. L. Fortescue and F. C. Hanker. No. 1,427,367; Aug. 29.
- Circuit interrupter. C. L. Fortescue and J. B. MacNeill. No. 1,427,368; Aug. 29.
- Circuit interrupter. C. H. Hodgkins. No. 1,424,304; Aug. 1.
- Circuit interrupter. W. V. Lovell. No. 1,406,267; Feb. 14.
- Circuit interrupter. J. N. Mahoney. No. 1,431,970; Oct. 17.
- Circuit interrupter. G. R. Radley. No. 1,437,617; Dec. 5.
- Circuit interrupter. J. E. Shrader. No. 1,433,747; Oct. 31.
- Circuit interrupter. J. Slepian. No. 1,406,234; Feb. 14.
- Circuit interrupter. J. F. Tritle. (Reissue.) No. 15,441; Aug. 29.
- Circuit-interrupting device. C. L. Fortescue. No. 1,433,712; Oct. 31.
- Circuit-interrupting mechanism. M. V. Cornica. No. 1,429,062; Sept. 12.
- Circuit making and breaking device. E. H. Piersen. No. 1,416,973; May 23.
- Circuit protector, Interlock. J. Lebovic. No. 1,422,110; Aug. 29.
- Circuit receiver. H. J. M. de Regnaud de Bellescize. No. 1,429,572; Sept. 19.
- Circuit relay, Closed. P. Kardaetz. No. 1,426,993; Aug. 22.
- Circuit, Repeater. J. F. Toomey. No. 1,407,604; Feb. 21.
- Circuit with instantaneous disconnect and recall, Trunk. H. D. Currier. No. 1,428,761; Sept. 12.
- Circuits, Automatic ringing. J. F. Toomey. No. 1,435,348; Nov. 14.
- Circuits, Automatic test and ringing. H. D. Currier and H. H. Ide. (Reissue.) No. 15,277; Jan. 31.
- Circuits, Clock-controlled lighting. J. F. Krost and V. J. Steffey. No. 1,439,523; Dec. 19.
- Circuits, Desk operator's. W. A. Rhodes. No. 1,429,972; Sept. 26.
- Circuits, Electron-discharge-device. J. C. Schelleng. No. 1,437,021; Nov. 28.
- Circuits for repeaters, Battery supply. A. F. Rose. No. 1,436,683; Nov. 28.
- Circuits, High-frequency translating. L. Espenschied and H. A. Affel. Nos. 1,438,987-9; Dec. 19.
- Circuits, Lock for ignition. M. F. Gifford. No. 1,424,298; Aug. 1.
- Circuits, Means for and method of reducing crosstalk in four-wire. R. A. Renshaw. No. 1,435,980; Nov. 21.
- Circuits, Means for and method of regulating the transmission over electric. A. B. Clark. Nos. 1,438,217-20; Dec. 12.
- Circuits, Means for indicating interruptions in ignition. H. Ness. No. 1,436,670; Nov. 28.
- Circuits, Means for regulating the transmission over four-wire. S. P. Shackleton. No. 1,438,270; Dec. 12.
- Circuits of electric heating apparatus, etc., Automatic control of the. M. H. Shoenberg. No. 1,405,450; Feb. 7.
- Circuits, Operator's. H. T. White. No. 1,411,465; Apr. 4.
- Circuits, Ringing arrangement for multiplex. H. A. Affel and J. Davidson, Jr. No. 1,402,202; Jan. 8.

Alphabetical list of inventions—Continued.

- Circuits, Switching mechanism for controlling. E. P. Hazazer. No. 1,404,694; Jan. 24.
- Circuits, Testing and adjusting apparatus for cord. W. H. Harrison. No. 1,428,631; Sept. 12.
- Circuits, Testing and adjusting apparatus for cord. J. F. Toomey. No. 1,406,246; Feb. 14.
- Circuits, Testing and adjusting apparatus for cord. J. F. Toomey. No. 1,428,667; Sept. 12.
- Circuits, Trunk. C. Sparks. No. 1,440,110; Dec. 26.
- Circuits, Universal cord. J. E. Hilbish. No. 1,426,478; Aug. 22.
- Circuits, Vacuum-tube. H. D. Arnold. No. 1,403,475; Jan. 17.
- Circuits, Vacuum-tube repeater. H. S. Read. No. 1,403,566; Jan. 17.
- Circulating air heater. J. Cassidy. No. 1,402,728; Jan. 3.
- Circulating device. E. E. Easton. No. 1,425,244; Aug. 8.
- Cistern. G. M. Anderson. No. 1,435,097; Nov. 7.
- Cistern outlet. H. M. Minnis. No. 1,416,228; May 16.
- Cisterns, Pumping apparatus for. T. Sarlls. No. 1,417,415; May 23.
- Clam-dredging machine. T. H. Phillips, Jr. No. 1,415,113; May 9.
- Clamshell machine. E. J. Armstrong. No. 1,401,951; Jan. 3.
- Clamp: *See*—
- Adjustable spring clamp. Newspaper clamp.
- Anastomosis clamp. Paper-cutter clamp.
- Anticreeping clamp. Pipe clamp.
- Automobile hood clamp. Pipe-stringer clamp.
- Band-saw-brazing clamp. Piston clamp.
- Bedclothes clamp. Printing-plate clamp.
- Bench and floor clamp. Rail clamp.
- Bolt clamp. Railway wheel clamp.
- Bowl clamp. Rim clamp.
- Box clamp. Rope clamp.
- Brush clamp. Saw clamp.
- Building clamp. Self-adjusting guard-rail clamp.
- Cable clamp. Self-supporting clamp.
- Cloth clamp. Sheet-glass clamp.
- Clothesline clamp. Spring clamp.
- Column clamp. Stage clamp.
- Connection clamp. Table clamp.
- Curtain-pole clamp. Three-way clamp.
- Dental flask clamp. Tire-boot clamp.
- Door-supporting clamp. Tooth cervical clamp.
- Electrical connection clamp. Trolley clamp.
- Engraver's clamp. Trolley-conductor clamp.
- Forge clamp. Utility clamp.
- Framing clamp. Washboard clamp.
- Hose clamp. Wheel clamp.
- Jar clamp. Window and door clamp.
- Jointer clamp. Wire clamp.
- Manifold clamp. Wire-fence clamp.
- Miter clamp. Wire-line clamp.
- Clamp. N. B. Allen. No. 1,419,193; June 13.
- Clamp. W. B. Bowman. No. 1,428,877; Sept. 12.
- Clamp. G. C. Cowles. No. 1,404,275; Jan. 24.
- Clamp. L. B. Craig. No. 1,408,933; Mar. 7.
- Clamp. G. M. Deane. No. 1,424,884; Aug. 8.
- Clamp. F. Erb. No. 1,434,738; Nov. 7.
- Clamp. J. Gentile. No. 1,407,650; Feb. 21.
- Clamp. S. R. Gilmore. No. 1,411,013; Mar. 28.
- Clamp. E. A. Gosnell. No. 1,410,804; Mar. 28.
- Clamp. C. A. Greene. No. 1,411,569; Apr. 4.
- Clamp. C. H. Hathaway. No. 1,416,351; May 16.
- Clamp. W. C. Heatlie. No. 1,423,933; July 25.
- Clamp. H. V. Holman. No. 1,403,958; Jan. 17.
- Clamp. R. H. Manson. No. 1,432,711; Oct. 17.
- Clamp. C. O. Merckel. No. 1,439,745; Dec. 26.
- Clamp. C. D. Miller. No. 1,419,288; June 18.
- Clamp. H. R. Mokler. No. 1,403,808; Jan. 17.
- Clamp. J. W. Parker. No. 1,428,608; Sept. 12.
- Clamp. C. B. Periolat. No. 1,412,961; Apr. 18.
- Clamp. G. Peterson. No. 1,411,930; Apr. 4.
- Clamp. H. Rigert. No. 1,424,034; July 25.
- Clamp. D. F. Smith. No. 1,431,601; Oct. 10.
- Clamp. W. A. Starck. No. 1,414,756; May 2.
- Clamp. K. J. Tobin. No. 1,409,798; Mar. 14.
- Clamp. G. G. Venema. No. 1,403,580; Jan. 17.
- Clamp. A. W. Warnock. No. 1,434,237; Oct. 31.
- Clamp. C. C. Wille. No. 1,404,674; Jan. 24.
- Clamp and drill guide, Quick. W. J. Griffin. No. 1,432,459; Oct. 17.
- Clamp and vise combined, Three-in-one. C. P. Paulsen. No. 1,425,275; Aug. 8.
- Clamp machine. H. B. Palmer. No. 1,420,941; June 27.
- Clamp means. J. T. Stoney. No. 1,410,619; Mar. 28.
- Clamp support. H. A. Selah. No. 1,416,386; May 16.
- Clamp tightener, Round-column. C. M. Markham. No. 1,430,576; Oct. 3.
- Clamping bolt. F. A. Lemich. No. 1,414,089; Apr. 25.
- Clamping device. A. L. Harvey. No. 1,414,407; May 2.
- Clamping device. J. Mattson. No. 1,420,725; June 27.
- Clamping ear. G. W. Bower. No. 1,420,408; June 20.
- Clamping jacket, Flexible tubular. R. D. Knight. No. 1,435,311; Nov. 14.
- Clamping joint, Adjustable. E. S. Seavey. No. 1,408,834; Mar. 7.
- Clamping mechanism. A. M. Bellony. No. 1,414,250; Apr. 25.
- Clamping mechanism. W. M. Brown and H. F. A. Kleinschmidt. No. 1,433,600; Oct. 31.
- Clamping members on spindles, Mechanism for. J. B. Ettinger. No. 1,434,433; Nov. 7.
- Clamping tool. J. T. Hopkins. No. 1,405,587; Feb. 7.
- Clapper. S. Goldberg and L. P. Solberg. No. 1,438,304; Dec. 12.
- Clarifier. O. M. Nelson. No. 1,428,798; Sept. 12.
- Clarinet. J. D. Mackey. No. 1,424,253; Aug. 1.
- Clarinet barrel. A. J. Sinclair. No. 1,416,898; May 23.
- Clarinets and saxophones, Mouthpiece for. D. R. Cark. No. 1,411,563; Apr. 4.
- Clasp: *See*—
- Armband clasp. Hose-supporter clasp.
- Belt clasp. Key clasp.
- Collar clasp. Lingerie clasp.
- Corset clasp. Paper clasp.
- Dental clasp. Safety clasp.
- Double clasp. Tailor's try-on clasp.
- Film clasp. Tie clasp.
- Garment clasp. Undergarment clasp.
- Garter clasp.
- Clasp. S. Buchsbaum. No. 1,428,678; Sept. 12.
- Clasp. S. Cowdrill. No. 1,425,178; Aug. 8.
- Clasp. N. A. Ellin. No. 1,440,063; Dec. 26.
- Clasp. W. Fischer. No. 1,435,829; Nov. 14.
- Clasp. G. W. Gardner. No. 1,433,197; Oct. 24.
- Clasp. S. L. Gedney. No. 1,402,594; Jan. 3.
- Clasp. O. I. Hoppe. No. 1,439,241; Dec. 19.
- Clasp. L. Jabner. No. 1,435,897; Nov. 14.
- Clasp. E. R. Nebeling. No. 1,404,637; Jan. 24.
- Clasp. G. Norman. No. 1,410,950; Mar. 28.
- Clasp. A. Papini. No. 1,412,088; Apr. 11.
- Clasp. W. G. Weber. No. 1,421,874; July 4.
- Clasp affixing and attaching device. J. K. Kellogg. No. 1,402,618; Jan. 3.
- Clasp and lock, Combination. M. Leibovitz. No. 1,422,214; July 11.
- Claw bar. A. A. Knoop. No. 1,412,356; Apr. 11.
- Clay and other impure aluminous materials, Enabling alumina to be obtained from. H. Pedersen. No. 1,406,890; Feb. 14.
- Clay and product thereof, Treatment of. W. Feldenheimer. No. 1,438,587; Dec. 12.
- Clay bodies, Apparatus for drying. E. B. Ayres. No. 1,429,997; Sept. 26.
- Clay bodies, Producing. G. W. Lapp. No. 1,424,924; Aug. 8.
- Clay, Drier for use in the manufacture of articles from tender. T. L. Myers. No. 1,403,440; Jan. 10.
- Clay treatment. W. Feldenheimer. No. 1,438,588; Dec. 12.
- Clays and in the manufacture of articles and materials therefrom, Treatment of. W. Smith. No. 1,432,629; Oct. 17.
- Cleaner: *See*—
- Air cleaner. Paper cleaner.
- Automobile windshield cleaner. Phonograph-record cleaner.
- Boiler cleaner. Pipe cleaner.
- Boiler-tube cleaner. Ring-groove cleaner.
- Bottle cleaner. Sanitary tooth cleaner.
- Brush cleaner. Saw cleaner.
- Bucket cleaner. Seed cleaner.
- Centrifugal air cleaner. Sewer cleaner.
- Chimney cleaner. Shoe cleaner.
- Comb cleaner. Shovel cleaner.
- Cotton-crop cleaner. Smoke cleaner.
- Ear-corn cleaner. Spark-plug cleaner.
- Eraser cleaner. Suction cleaner.
- Flue cleaner. Sweep-rake cleaner.
- Fowl cleaner. Thread cleaner.
- Gas-pipe cleaner. Tobacco-pipe cleaner.
- Grain cleaner. Tower gas cleaner.
- Gun-barrel cleaner. Track cleaner.
- Hydrochemical cleaner. Tube cleaner.
- Lamp cleaner. Vacuum cleaner.
- Lawn cleaner. Watch and jewelry cleaner.
- Matrix cleaner. Well cleaner.
- Nozzle cleaner. Window cleaner.
- Oil-tank cleaner. Windshield cleaner.
- Cleaner. J. W. Whiteside. No. 1,436,741; Nov. 28.
- Cleaner and polish composition. G. W. Cable. No. 1,415,866; May 16.
- Cleaner and suction tool, Pneumatic. D. B. Replogle. No. 1,403,524; Jan. 17.
- Cleaners, Beater for suction. E. B. Hoff. No. 1,422,100; July 11.
- Cleaners, Dust collector for pneumatic. D. B. Replogle. No. 1,416,876; May 23.
- Cleaning and brushing machine, Fruit. R. D. McDill. No. 1,417,266; May 23.
- Cleaning and plating apparatus. G. W. Schweinsberg. No. 1,428,563; Sept. 12.
- Cleaning apparatus. T. H. Bell and J. G. Schoenleber. No. 1,432,951; Oct. 24.
- Cleaning apparatus, Suction. F. E. Robertson. No. 1,437,996; Dec. 5.
- Cleaning and scouring compound. T. W. Pritchard. No. 1,407,297; Feb. 21.
- Cleaning compound. S. E. Smyth. No. 1,429,978; Sept. 26.
- Cleaning device. R. Millhouse. No. 1,421,529; July 4.
- Cleaning device. J. Di Piazza. No. 1,409,234; Mar. 14.

- Cleaning device. G. B. Pickop. No. 1,415,467; May 9.
 Cleaning device. W. H. Rose. Nos. 1,428,806-7; Sept. 12.
 Cleaning device. S. L. Sellars. No. 1,419,948; June 20.
 Cleaning machine, Feather-. W. Hood. No. 1,413,120; Apr. 18.
 Cleaning machine, Flue-. J. J. Mikshel. No. 1,406,047; Feb. 7.
 Cleaning material. M. Tani. No. 1,406,243; Feb. 14.
 Cleaning receptacle and stool, Combination. S. and S. G. Goldner. No. 1,431,888; Oct. 10.
 Cleaning tubes, Appliance for. C. D. Hoff. No. 1,418,925; June 6.
 Cleansing and polishing preparation. W. J. Hurst. No. 1,433,887; Oct. 31.
 Cleansing composition. E. E. Hullinger. No. 1,418,800; June 6.
 Cleansing compound. W. C. Newbury. No. 1,415,605; May 9.
 Cleat, Corner. F. W. Lord. No. 1,402,304; Jan. 3.
 Cleat, Snatch. J. A. Svenson. No. 1,432,369; Oct. 17.
 Clevis. H. T. Larson. No. 1,434,296; Oct. 31.
 Clevis jack. D. F. Hilton. No. 1,410,569; Mar. 28.
 Climeter. A. K. Haines. No. 1,405,841; Feb. 7.
 Clip. *See*—
 Automobile spring clip. Pen and pencil clip.
 Band clip. Pencil clip.
 Binding clip. Pocket clip.
 Cloth clip. Pulley-cord clip.
 Clothes clip. Retaining clip.
 Collar clip. Rose clip.
 Film clip. Spectacle-case clip.
 Electric clip. Spring clip.
 Fastening clip. Storage-battery clip.
 Harrow-tooth clip. Suspender clip.
 Metal-lath-attaching clip. Toe clip.
 Paper clip. Trousers clip.
 Paper-binding clip.
 Clip. G. B. Dusingerre. No. 1,402,153; Jan. 3.
 Clip. C. J. Hendricks. No. 1,427,736; Aug. 29.
 Clip. J. W. Kessel. No. 1,429,037; Sept. 12.
 Clip. W. C. Steffan, F. B. Ackermann, and W. J. Grelnier. No. 1,421,318; June 27.
 Clip device for reels. E. Fulda. No. 1,421,933; July 4.
 Clipper. *See*—
 Orange clipper.
 Clipper. J. H. Lape. No. 1,412,661; Apr. 11.
 Clippers, Movable supporting device for. T. Vigneux and M. Valiquette. No. 1,405,079; Jan. 31.
 Clips, Making wire-rope clamp. G. C. Soule and J. B. Woodbury. No. 1,422,314; July 14.
 Clips, Producing. C. H. Ziler. No. 1,407,977; Feb. 28.
 Clock. J. F. Dunn. (Reissue). No. 15,348; May 9.
 Clock. L. Hammond. (Reissue). No. 15,299; Mar. 7.
 Clock. A. P. Hodge. No. 1,433,372; Oct. 24.
 Clock. M. Horn. No. 1,420,549; June 20.
 Clock. P. Mansel. No. 1,422,590; July 11.
 Clock. S. Mazur. No. 1,402,428; Jan. 3.
 Clock. W. O'Leary. (Reissue). No. 15,398; July 4.
 Clock, Alarm. A. Bull. No. 1,439,064; Dec. 19.
 Clock, Alarm. W. Maier. No. 1,410,409; Mar. 21.
 Clock, Alarm. E. H. Miller. No. 1,402,524; Jan. 3.
 Clock, Alarm. O. Röseke. No. 1,424,214; Aug. 1.
 Clock and watch. L. Wyss. No. 1,410,050; Mar. 21.
 Clock, Astronomical. M. Bulka. No. 1,416,605; May 16.
 Clock, Call. C. R. Gains. No. 1,424,092; July 25.
 Clock case. C. H. Hyde. No. 1,418,649; June 6.
 Clock, Automobile. W. E. Porter. No. 1,428,902; Sept. 12.
 Clock bank. W. D. and J. R. Pennington. Nos. 1,431,752-3; Oct. 10.
 Clock, Chime. W. E. Porter. No. 1,437,012; Nov. 28.
 Clock, Chime. F. Wehinger. No. 1,406,511; Feb. 14.
 Clock-circuit-control device. G. A. Albright. No. 1,416,592; May 16.
 Clock dial. J. T. Whalen. No. 1,438,153; Dec. 5.
 Clock, Electric. A. Brunner. No. 1,414,253; Apr. 25.
 Clock, Electric. L. Dorfman. No. 1,408,274; Feb. 28.
 Clock, Electric. J. T. A. Gaucher. No. 1,406,549; Feb. 14.
 Clock, Electric. P. Mansel. No. 1,417,620; May 30.
 Clock, Electric. L. Pillion. No. 1,429,693; Sept. 19.
 Clock, Electromagnetic. M. P. Favre-Bulle. No. 1,411,243; Mar. 28.
 Clock, Electromagnetic. M. P. Favre-Bulle and M. A. Moulin. No. 1,432,989; Oct. 24.
 Clock escapement. W. J. Fawcett. No. 1,423,410; July 18.
 Clock frame. W. F. Hanson. No. 1,415,636; May 9.
 Clock, Keyless. A. L. Sohm. No. 1,418,487; June 6.
 Closet, Marine. P. Allan. No. 1,421,362; July 4.
 Clock mechanism, Self-winding. C. E. Boillot. No. 1,416,254; May 16.
 Clock, Metal. C. E. Williams. No. 1,418,895; June 6.
 Clock mounting. E. E. Simons. No. 1,420,583; June 20.
 Clock movement, Intermittent-alarm. J. R. Putnam. No. 1,416,870; May 23.
 Clock, Perch. C. G. Richardson. No. 1,432,622; Oct. 17.
 Clock, Secondary. M. D. Metcalfe. No. 1,432,566; Oct. 17.
 Clock, Self-winding time-switch. J. C. Van Slyke. No. 1,413,075; Apr. 18.
 Clock, Speaking. V. and J. Pinto. No. 1,424,516; Aug. 1.
 Clock with preceding alarm, Alarm. O. Röseke. No. 1,424,213; Aug. 1.
 Clock with striking trains for hours and quarters. T. Bäuerle. No. 1,437,705; Dec. 5.
 Clockwork. P. S. Larson. No. 1,408,366; Feb. 28.
 Clockworks. M. O. Rose. No. 1,420,447; June 20.
 Clocks, Automatic synchronizing mechanism for chime. H. J. Treganza. No. 1,409,622; Mar. 14.
 Clocks, Chime attachment for. W. H. Allen. No. 1,426,806; Aug. 22.
 Clocks, Drive for weight-moved. T. Bäuerle. No. 1,408,718; Mar. 7.
 Clocks, Rod gong for striking. W. E. Porter. No. 1,424,677; Aug. 1.
 Clod crusher. C. C. Hood. No. 1,418,260; May 30.
 Clod crusher. B. Kent. No. 1,425,976; Aug. 15.
 Closable ventilator. A. F. Roth. No. 1,425,903; Aug. 15.
 Closet. *See*—
 Chemical closet. Water closet.
 Sanitary closet.
 Closet. E. G. Watrous. No. 1,433,581; Oct. 31.
 Closet. F. X. Wild. No. 1,419,339; June 13.
 Closet attachment. E. H. Metcalf. No. 1,402,307; Jan. 3.
 Closet, Dry. N. D. Flowers. No. 1,420,420; June 20.
 Closet seat. S. H. Newman. No. 1,408,903; Mar. 7.
 Closet seat. E. G. Watrous. No. 1,415,130; May 9.
 Closet seat, Auxiliary. M. G. Hilpert. No. 1,438,491; Dec. 12.
 Closet seat, Portable. W. W. Lynes. No. 1,410,202; Mar. 21.
 Closet tanks, Push-button trip lever for low. W. C. Rathbun. No. 1,420,948; June 27.
 Closets, Appliance for flushing. H. F. Neumeyer. No. 1,428,971; Sept. 12.
 Closets, Flushing device for. E. Thiry. No. 1,419,426; June 13.
 Closure. F. E. Baldwin. No. 1,423,592; July 25.
 Closure. E. L. Greenewald. No. 1,405,112; Jan. 31.
 Closure. E. L. Greenewald. No. 1,427,683; Aug. 29.
 Closure. P. Pappas. No. 1,418,201; May 30.
 Closure. H. E. Pausin. No. 1,426,211; Aug. 15.
 Closure. H. R. Townsend. No. 1,404,913; Jan. 31.
 Closure-applying machine. O. N. Tevander. No. 1,431,341; Oct. 10.
 Closure fastener. H. M. Paterson. No. 1,404,476; Jan. 24.
 Closure fastener. C. C. Stahl. No. 1,404,557; Jan. 24.
 Closure fastener. H. Ventre. No. 1,427,658; Aug. 29.
 Closure fastener. W. Williams. No. 1,408,236; Feb. 28.
 Closure for containers. W. B. Goddard. No. 1,411,621; Apr. 4.
 Closure for containers. C. L. Murphy. No. 1,420,734; June 27.
 Closure-operating device. C. R. McCullum. No. 1,406,468; Feb. 14.
 Closure operator. W. Asbury. No. 1,406,142; Feb. 7.
 Closure operator. W. Asbury. No. 1,407,828; Feb. 28.
 Closure operator. S. P. Smurr. No. 1,416,071; May 16.
 Cloth and like guide or feeder. A. and G. Wood. No. 1,434,179; Oct. 31.
 Cloth and other sheet material, Apparatus for handling. R. D. Tackaberry. No. 1,412,980; Apr. 18.
 Cloth clamp. B. Rubinstein. No. 1,435,981; Nov. 21.
 Cloth clip. R. W. Armstrong. No. 1,417,129; May 23.
 Cloth-cutting machine. H. A. Meyer. No. 1,435,125; Nov. 7.
 Cloth drill. W. Gorr. No. 1,417,665; May 30.
 Cloth-findings dispenser. I. E. Heller. No. 1,416,293; May 16.
 Cloth finishing and product thereof. F. W. Tully. No. 1,417,587; May 30.
 Cloth holder. J. Pabst. No. 1,424,209; Aug. 1.
 Cloth, Method and apparatus for producing weftless. J. A. McLane. No. 1,420,271; June 20.
 Cloth-piling machine. P. W. Bidwell. No. 1,432,955; Oct. 24.
 Cloth-piling machine. D. G. Norton and A. Durot. No. 1,418,199; May 30.
 Cloth-plaiting machine. H. E. Elrod. No. 1,402,584; Jan. 3.
 Cloth plaiting or piling machine. A. Durot. No. 1,408,083; Feb. 28.
 Cloth-sponging machine. C. E. Murray. No. 1,431,412; Oct. 10.
 Cloth-sponging machines, Steam cylinder for. G. Fry. No. 1,436,705; Nov. 28.
 Cloth, Surfacing container for tracing. T. A. Jenkins. No. 1,439,627; Dec. 19.
 Cloth-straightening machine. W. Gigliotti. No. 1,404,110; Jan. 17.
 Cloth-tinting composition and tinting cloth. C. Ellis. No. 1,412,014; Apr. 4.
 Cloth-treating machine. J. M. Johnson and W. G. Gottschall. No. 1,410,256; Mar. 21.
 Cloth-winding machines, Tensioning means for. W. H. Jessup. No. 1,431,462; Oct. 10.
 Clothes clip. H. Dobesch. No. 1,418,543; June 6.
 Clothes creases, Reinforcement for. C. A. Anderson. No. 1,413,885; Apr. 25.
 Clothes drier. G. C. Brown. No. 1,438,630; Dec. 12.
 Clothes drier. W. C. Hughes. No. 1,422,061; July 4.
 Clothes drier. S. H. Mason. No. 1,412,412; Apr. 11.
 Clothes drier. E. McNeill. No. 1,409,877; Mar. 14.
 Clothes drier. S. Skelly. No. 1,421,851; July 4.
 Clothes-drying apparatus. H. Bly. No. 1,411,265; Apr. 4.

Alphabetical list of inventions—Continued.

- Clothes-drying machine. C. W. Collins. No. 1,427,580; Aug. 29.
- Clothes-drying machine. S. H. Davis. No. 1,432,388; Oct. 17.
- Clothes-drying rack. D. B. Baker. No. 1,425,231; Aug. 8.
- Clothes fastener, Counterpoised. E. Varga. No. 1,435,674; Nov. 14.
- Clothes follower or presser. H. W. Roundtree. No. 1,437,684; Dec. 5.
- Clothes hanger. F. C. Nelson. No. 1,421,709; July 4.
- Clothes hanger. J. W. Stapp. No. 1,402,681; Jan. 3.
- Clothes hanger and window ladder, Combined. J. Petyo. No. 1,416,058; May 16.
- Clothes-hanger rack. M. H. Cazier and E. P. Youkey. No. 1,439,145; Dec. 19.
- Clothes hanger, Supplemental. M. H. Catlin. No. 1,427,260; Aug. 29.
- Clothesline. W. O. Altman. No. 1,427,051; Aug. 22.
- Clothesline. E. P. Dore and J. A. Kohn. No. 1,424,626; Aug. 1.
- Clothesline. J. Miller. No. 1,411,927; Apr. 4.
- Clothesline adjuster. G. Cole. No. 1,424,084; July 25.
- Clothesline and locking clothespin therefor. W. R. Derr. No. 1,433,344; Oct. 24.
- Clothesline attachment. W. Budde. No. 1,420,178; June 20.
- Clothesline attachment. S. and J. Stapienski. No. 1,414,794; May 2.
- Clothesline bracket and tray. D. E. Davison. No. 1,428,418; Sept. 5.
- Clothesline clamp. W. Klaas. No. 1,433,829; Oct. 31.
- Clothesline fastener. E. Bear. No. 1,434,802; Nov. 7.
- Clothesline fastener. G. B. Ely. No. 1,420,370; June 20.
- Clothesline fastener. J. A. Weth. No. 1,424,537; Aug. 1.
- Clothesline hanger. F. O. Lake. No. 1,423,530; July 25.
- Clothesline hanger. M. V. Teator. No. 1,405,073; Jan. 31.
- Clothesline holder. A. W. Kroona. No. 1,411,850; Apr. 4.
- Clothesline reel. D. L. MacAulay. No. 1,406,882; Feb. 14.
- Clothesline reel. F. J. Schaper. No. 1,419,589; June 13.
- Clothesline reel. T. R. Watkins. No. 1,433,921; Oct. 31.
- Clothesline reel. H. L. Youngren. No. 1,404,918; Jan. 31.
- Clothesline support. J. S. Davis. No. 1,436,578; Nov. 21.
- Clothesline support. C. F. Franzen. No. 1,423,762; July 25.
- Clothesline support. O. L. Schastey. No. 1,414,217; Apr. 25.
- Clotheslines, Clamping device for. C. L. Bartholome. No. 1,425,313; Aug. 8.
- Clotheslines, Device for securing articles to. R. F. Byrne. No. 1,402,567; Jan. 3.
- Clotheslines, Holder for. C. B. Brookhart. No. 1,408,261; Feb. 28.
- Clotheslines, Pulley coupling for. J. C. Emond. No. 1,434,377; Nov. 7.
- Clothespin. L. Barbean. No. 1,435,792; Nov. 14.
- Clothespin. D. S. Boyles. No. 1,426,251; Aug. 15.
- Clothespin. C. J. Ingersoll. No. 1,410,254; Mar. 21.
- Clothespin. F. Koup. No. 1,413,035; Apr. 18.
- Clothespin. J. D. Lincoln and R. W. Ray. No. 1,409,557; Mar. 14.
- Clothespin. F. M. Lokometzki. No. 1,413,341; Apr. 18.
- Clothespin. J. B. Marshall. No. 1,417,850; May 30.
- Clothespin. J. J. Roy. No. 1,408,779; Mar. 7.
- Clothespin. E. West. No. 1,407,344; Feb. 21.
- Clothespin and anchor therefor. G. Teller. No. 1,440,116; Dec. 26.
- Clothespin bag. E. Henderson. No. 1,402,355; Jan. 3.
- Clothespin bag. M. A. Mabon. No. 1,427,219; Aug. 29.
- Clothespin holder. J. D. Davala and W. W. Staley. No. 1,434,532; Nov. 7.
- Clothes poulder. A. O. Hubbard. No. 1,434,012; Oct. 31.
- Clothes-pressing apparatus. J. J. Zuruk-Zurinsky. No. 1,424,549; Aug. 1.
- Clothesrack. K. T. Barrett. No. 1,419,007; June 6.
- Clothesrack. E. J. Beaver. No. 1,437,845; Mar. 21.
- Clothesrack. S. I. Clawson. No. 1,438,697; Dec. 12.
- Clothesrack and umbrella stand, Knockdown. O. J. Martin. No. 1,437,256; Nov. 28.
- Clothes tray. H. V. Merrett. No. 1,414,145; Apr. 25.
- Clothes wringer. E. F. Beebe. No. 1,429,318; Sept. 19.
- Clothes wringer. E. F. Boebe. No. 1,440,205; Dec. 26.
- Clothes wringer. W. W. Carlson. No. 1,435,629; Nov. 14.
- Clothes wringer. H. W. Henneberg. No. 1,437,845; Dec. 5.
- Clothes wringer. R. L. Kuecid. No. 1,416,213; May 16.
- Clothes wringer. G. W. Lewis. No. 1,411,443; Apr. 4.
- Clothes wringer. T. H. Mars. No. 1,408,819; Mar. 7.
- Clothes wringer. W. H. Meyer. No. 1,402,244; Jan. 3.
- Clothes wringer. W. H. Meyer. No. 1,418,821; June 6.
- Clothes wringer. T. and H. Straka. No. 1,418,890; June 6.
- Clothes wringer. L. Ter Maat. No. 1,432,807; Oct. 24.
- Clothes wringer. C. C. Tomkinson. No. 1,411,983; Apr. 4.
- Clothes wringer. J. J. Wood. (Beissue). No. 15,266; Jan. 10.
- Clothes-wringer cover, Centrifugal. L. L. Williams. No. 1,413,643; Apr. 25.
- Clothes wringers, Drain board for. W. S. Ireland. No. 1,425,099; Aug. 8.
- Clothes wringers, Gearing attachment for. E. Arthurs. No. 1,418,224; May 30.
- Clothing, Child's. E. D. Nester. No. 1,424,318; Aug. 1.
- Clutch. J. G. Bailey. No. 1,407,115; Feb. 21.
- Clutch. V. Bendix. No. 1,425,360; Aug. 8.
- Clutch. R. H. Botts. No. 1,412,606; Apr. 11.
- Clutch. W. W. Cameron. No. 1,430,722; Oct. 3.
- Clutch. A. H. Clark. No. 1,424,987; Aug. 8.
- Clutch. J. W. Crowley, Jr. No. 1,407,384; Feb. 21.
- Clutch. L. G. Daniels. No. 1,439,952; Dec. 26.
- Clutch. T. A. Fall. No. 1,412,234; Apr. 11.
- Clutch. W. F. Harrington. No. 1,419,849; June 13.
- Clutch. N. S. Harter. No. 1,437,243; Nov. 28.
- Clutch. J. B. Howe. No. 1,424,165; Aug. 1.
- Clutch. W. D. McCullough. No. 1,425,994; Aug. 15.
- Clutch. J. L. Peterson. No. 1,430,468; Sept. 26.
- Clutch. D. G. Roos. No. 1,424,036; July 25.
- Clutch. L. J. Root. No. 1,410,511; Mar. 21.
- Clutch. H. J. Smith. No. 1,431,053; Oct. 3.
- Clutch. W. Sumner. No. 1,436,830; Nov. 28.
- Clutch. P. B. Taylor. No. 1,434,970; Nov. 7.
- Clutch. J. T. Trumble. No. 1,437,121; Nov. 28.
- Clutch. F. A. Turner. No. 1,405,698; Feb. 7.
- Clutch. S. O. White. No. 1,431,551; Oct. 10.
- Clutch. G. I. Wicks. No. 1,438,073; Dec. 5.
- Clutch. H. J. Widmaier. No. 1,425,156; Aug. 8.
- Clutch and brake, Combined. J. S. Townsend. No. 1,418,747; June 6.
- Clutch and brake control mechanism. J. E. Winters. No. 1,427,184; Aug. 29.
- Clutch and gear, Transmission. O. O. Storle. No. 1,416,074; May 16.
- Clutch and reversing gear, Combined. T. Omdal. No. 1,435,021; Nov. 7.
- Clutch and reversing mechanism, Electromagnetic. E. J. Murphy. No. 1,424,027; July 25.
- Clutch and stop mechanism. F. M. Card. No. 1,429,404; Sept. 29.
- Clutch and stop mechanism. G. M. Eames. No. 1,409,837; Mar. 14.
- Clutch and transmission. J. de Martino. No. 1,428,221; Sept. 5.
- Clutch and transmission. J. de Martino. No. 1,431,100; Oct. 3.
- Clutch and transmission. W. S. Warnock. No. 1,432,432; Oct. 17.
- Clutch and transmission, Fluid. E. R. Carpenter. No. 1,436,753; Nov. 28.
- Clutch and transmission mechanism. W. F. Mottier. No. 1,409,396; Mar. 14.
- Clutch and transmission mechanism, Combined. H. J. Jones. No. 1,409,864; Mar. 14.
- Clutch, Automatic. F. H. Lippincott. No. 1,440,160; Dec. 26.
- Clutch, Automatic friction. R. F. Settlage. No. 1,438,614; Dec. 12.
- Clutch, Centrifugal. C. F. Asplund. No. 1,418,350; June 6.
- Clutch control, Duplex safety-. S. S. and L. H. Snell. No. 1,421,317; June 27.
- Clutch control, Extension. H. S. Myers. No. 1,418,265; May 30.
- Clutch-control lever. C. T. Norton. No. 1,430,317; Sept. 26.
- Clutch-control lock. P. H. Dasen. No. 1,420,821; June 27.
- Clutch controller. J. S. Manton. No. 1,437,605; Dec. 5.
- Clutch-controlling device. R. W. Lewis. No. 1,409,739; Mar. 14.
- Clutch-controlling mechanism. M. P. Holmes. No. 1,430,520; Sept. 26.
- Clutch, Disk. C. G. Seitz. No. 1,415,841; May 9.
- Clutch, Dog. W. Skafte. No. 1,423,631; July 25.
- Clutch facing and making same. W. C. Fisher. No. 1,436,158; Nov. 21.
- Clutch facing and making same, Disk. W. Achtmeyer. No. 1,429,266; Sept. 19.
- Clutch, Friction. J. H. Giauque and C. Haesler. No. 1,423,413; July 18.
- Clutch, Friction. A. H. G. Girling. No. 1,437,412; Dec. 5.
- Clutch, Friction. W. F. Lautenschlager. No. 1,439,314; Dec. 19.
- Clutch, Friction. J. W. Livermore. No. 1,411,110; Mar. 28.
- Clutch, Friction. D. L. Lott. No. 1,440,226; Dec. 26.
- Clutch, Friction. T. Morgan. No. 1,429,962; Sept. 26.
- Clutch, Friction. A. H. Morrison. No. 1,403,052; Jan. 10.
- Clutch, Friction. G. C. Nelson. No. 1,427,623; Aug. 29.
- Clutch, Friction. J. H. Roberts. No. 1,433,656; Oct. 31.
- Clutch, Friction. A. H. Schroeder and R. H. Boone. No. 1,430,689; Oct. 3.
- Clutch, Friction. C. G. Wood. No. 1,402,129; Jan. 3.
- Clutch holder. F. F. Wunder. No. 1,434,760; Nov. 7.
- Clutch, Hydraulic. W. W. Sides. No. 1,406,292; Feb. 14.
- Clutch, Hydraulic. J. S. Wignall, Jr. and O. E. McClellan. No. 1,418,761; June 6.
- Clutch, Jeweler's. L. J. Roy. No. 1,406,688; Feb. 14.
- Clutch-lever collar. C. G. Wood. No. 1,429,479; Sept. 19.
- Clutch-lever holder. T. J. Fetcher. No. 1,404,748; Jan. 31.
- Clutch-lever retainer. M. L. Cline and F. Herge. No. 1,424,081; July 25.
- Clutch lock. E. G. La Blanc. No. 1,434,494; Nov. 7.

- Clutch lock. S. B. Livingston. No. 1,414,884; May 2.
 Clutch lock. A. N. Merrill. No. 1,425,404; Aug. 8.
 Clutch mechanism. F. Cartledge. No. 1,434,772; Nov. 7.
 Clutch mechanism. L. E. Conner. No. 1,415,150; May 9.
 Clutch mechanism. J. F. Godfrey. No. 1,429,280; Sept. 19.
 Clutch mechanism. J. A. Heany. No. 1,423,108; July 18.
 Clutch mechanism. I. Hupp. No. 1,413,987; Apr. 25.
 Clutch mechanism. A. B. Landis. No. 1,437,319; Nov. 28.
 Clutch mechanism. J. Lauth. No. 1,405,927; Feb. 7.
 Clutch mechanism. J. K. Pierce. No. 1,426,213; Aug. 15.
 Clutch mechanism. T. C. Prouty. No. 1,433,299; Oct. 24.
 Clutch mechanism, Friction-. W. L. Pierce. No. 1,420,214; June 20.
 Clutch member, Friction-. G. D. Tresslar. No. 1,414,490; May 2.
 Clutch-operating mechanism. E. D. Roberts. No. 1,423,023; July 18.
 Clutch-pedal lock. R. R. Burkhart. No. 1,417,138; May 23.
 Clutch-pedal lock. A. K. Goehner. No. 1,427,285; Aug. 29.
 Clutch-pedal-releasing device. G. W. Pierce. No. 1,435,732; Nov. 14.
 Clutch, Planetary. J. de Martino. No. 1,410,384; Mar. 21.
 Clutch, Plural-disk cushion. F. M. Melvin. No. 1,407,561; Feb. 21.
 Clutch, Positive-reduction. E. E. Wickersham. No. 1,407,971; Feb. 28.
 Clutch pulley, Friction-. A. L. Preimesberger. No. 1,421,558; July 4.
 Clutch release. S. O. White. No. 1,431,552; Oct. 10.
 Clutch release, Automatic. C. E. Cain. No. 1,418,619; June 6.
 Clutch release, Automatic. G. E. Maxwell. No. 1,421,521; July 4.
 Clutch-releasing mechanism. J. F. Gorman. No. 1,438,486; Dec. 12.
 Clutch, Reversible. R. Pinder. No. 1,427,168; Aug. 29.
 Clutch, Rotary. E. Fehr. No. 1,403,678; Jan. 17.
 Clutch, Self-adjusting. A. H. Hunt. No. 1,422,062; July 4.
 Clutch, Sleeveless reversing. D. C. Klausmeyer. No. 1,418,805; June 6.
 Clutch, Yieldable. J. F. and R. S. Walters. No. 1,403,018; Jan. 10.
 Clutches, Control for. L. S. Libbrecht. No. 1,407,940; Feb. 28.
 Coach and sleeper, Convertible day. J. W. Covington. No. 1,417,719; May 30.
 Coach body. J. F. Leger. No. 1,404,619; Jan. 24.
 Coach ventilator. D. McIntyre. No. 1,417,268; May 23.
 Coaches, Drop step for passenger. J. F. Maurer and G. W. Beiser. No. 1,429,607; Sept. 19.
 Coal and air, Means for feeding and mixing powdered. W. R. Field. No. 1,410,246; Mar. 21.
 Coal and obtaining of by-products, Gasification of. C. H. Smith. No. 1,413,799; Apr. 25.
 Coal and other material, Destructive distillation of. P. Farup. No. 1,414,401; May 2.
 Coal and other materials, Device for crushing. C. A. Klonan. No. 1,408,607; Mar. 7.
 Coal and other unscreened material, Portable apparatus for elevating and screening. P. J. Alwart. No. 1,432,738; Oct. 24.
 Coal, Apparatus for coking. C. M. Garland. No. 1,402,413; Jan. 3.
 Coal bag. H. Josephson. No. 1,418,717; June 6.
 Coal, Blast-furnace tyure cap for pulverized. R. A. Wagstaff. No. 1,415,910; May 16.
 Coal breaker. F. Pardee. No. 1,412,793; Apr. 11.
 Coal breaker. F. Pardee. No. 1,419,407; June 13.
 Coal breaker. F. Pardee. No. 1,435,330; Nov. 14.
 Coal briquette and manufacturing same. C. M. Machold. No. 1,404,869; Jan. 31.
 Coal burner, Powdered-. H. J. Stehli. No. 1,407,600; Feb. 21.
 Coal chute. H. Steinbach. No. 1,416,073; May 16.
 Coal-chute attachment. H. E. Downer. No. 1,407,391; Feb. 21.
 Coal, Cleaning. W. E. Trent. No. 1,420,163; June 20.
 Coal, Coking of. S. R. Illingworth. No. 1,422,269; July 11.
 Coal-cutting machine. A. Russell. No. 1,414,586; May 2.
 Coal-distillation retort. A. Roberts. No. 1,408,640; Mar. 7.
 Coal-feeding mechanism. A. C. Glasgow. No. 1,431,944; Oct. 17.
 Coal, Handling. J. H. D. Petersen. No. 1,430,183; Sept. 26.
 Coal-handling device. H. D. Bartlett. No. 1,423,986; July 25.
 Coal-handling system. F. E. Arndt. No. 1,425,822; Aug. 15.
 Coal hod. P. H. Colling. No. 1,413,518; Apr. 18.
 Coal hod. J. A. Martin. No. 1,427,613; Aug. 29.
 Coal in blast-furnace work, Apparatus and method of distributing pulverized. R. A. Wagstaff. No. 1,411,072; Mar. 28.
 Coal in coal mines, Arrangement for breaking and loading. S. O. Foss. No. 1,439,666; Dec. 19.
 Coal in mines, Extracting. H. Mack. No. 1,422,874; July 18.
 Coal jig. J. J. Steinbach. No. 1,427,651; Aug. 29.
 Coal-loading apparatus. J. H. Miller. No. 1,411,928; Apr. 4.
 Coal-loading device. L. W. Parsons, C. W. Morgan, and A. R. Hussey. No. 1,435,730; Nov. 14.
 Coal-loading machine. N. A. Newdick. (Reissue.) No. 15,339; Apr. 18.
 Coal, Method of and means for distilling. A. W. Helmholtz. No. 1,422,706; July 11.
 Coal, Mining. R. Battey. No. 1,408,971; Mar. 7.
 Coal-mining apparatus. N. D. Levin. No. 1,406,660; Feb. 14.
 Coal-mining skid. T. P. Santarelli. No. 1,405,837; Jan. 31.
 Coal or other carbonaceous material, Gasification of. A. M. Duckham. No. 1,428,421; Sept. 5.
 Coal or other material, Apparatus for drying. T. A. Goskar. No. 1,424,565; Aug. 1.
 Coal or the like and for separating it from its impurities, Apparatus for washing. H. P. Hoyle. No. 1,418,442; June 6.
 Coal, Plant for and method of treating. C. H. Smith. No. 1,414,223; Apr. 25.
 Coal, Plant for and method of treating. C. H. Smith. No. 1,415,202; May 9.
 Coal pocket. H. M. Sankey. No. 1,411,190; Mar. 28.
 Coal-pushing device. J. M. Johnson. No. 1,411,105; Mar. 28.
 Coal screening and washing machine. W. F. Martin. No. 1,437,669; Dec. 5.
 Coal screening and washing machine. W. F. Martin. No. 1,438,125; Dec. 5.
 Coal screening and washing machine. W. F. Martin. No. 1,439,252; Dec. 19.
 Coal slimes, Utilizing. H. Brune and H. Horst. No. 1,416,546; May 16.
 Coal, Treating. F. J. Root. No. 1,426,012; Aug. 15.
 Coal, Treatment of materials containing. E. Edser, H. L. Sulman, and F. B. Jones. No. 1,418,547; June 6.
 Coal, Vertical retort for carbonizing. W. T. Gardner. No. 1,407,996; Feb. 28.
 Coal washer. F. Courtoy. No. 1,430,216; Sept. 26.
 Coal washer and separator. W. F. Martin. No. 1,412,291; Apr. 11.
 Coal-washer jig. L. MacKenzie and W. Richardson, jr. No. 1,439,431; Dec. 19.
 Coaster. R. A. Mack. No. 1,425,880; Aug. 15.
 Coaster. H. A. Mazer. No. 1,406,269; Feb. 14.
 Coaster. R. W. Parkes. No. 1,416,864; May 23.
 Coaster brake. R. Abell. No. 1,413,952; Apr. 25.
 Coaster brake. C. M. Davis. No. 1,402,577; Jan. 3.
 Coaster brake. E. Enström and E. A. Hilding. No. 1,412,393; Apr. 11.
 Coaster brake. C. W. Svenson. No. 1,408,842; Mar. 7.
 Coaster, Convertible. E. D. Volz. No. 1,409,501; Mar. 14.
 Coaster, Gliding. A. H. Heatzman. No. 1,422,203; July 11.
 Coat and hat holder, Combined. C. W. Stahle. No. 1,415,126; May 9.
 Coat-distributing machine, Pearl-. W. D. Wood. No. 1,424,544; Aug. 1.
 Coat fastener. J. Hess. No. 1,409,106; Mar. 7.
 Coat, hat, and umbrella rack, Automatic. H. Hanson. No. 1,412,939; Apr. 18.
 Coat-tail vent construction. A. G. Peine. No. 1,402,954; Jan. 10.
 Coated fabric and making same. J. A. Wilson. No. 1,406,710; Feb. 14.
 Coated fabric and making same. J. A. Wilson. Nos. 1,425,306-7; Aug. 8.
 Coating and finishing flooring. E. C. Dittmar. Nos. 1,430,887-8; Oct. 3.
 Coating and sealing compound. E. A. Jones. No. 1,403,327; Jan. 10.
 Coating and treating materials having an iron base. J. L. Herman. Nos. 1,430,648-51; Oct. 3.
 Coating apparatus. J. C. Buckminster. No. 1,407,729; Feb. 28.
 Coating apparatus. C. I. Dayton. No. 1,422,545; July 11.
 Coating articles. H. and H. Blumenthal. No. 1,403,068; Jan. 10.
 Coating bonbons, Process and machine for. C. A. Fankhauser. No. 1,424,286; Aug. 1.
 Coating cakes, etc., Apparatus for. F. Beers and H. L. Powell. No. 1,424,232; Aug. 1.
 Coating composition. A. Bickley. No. 1,432,523; Oct. 17.
 Coating composition. A. C. Holzapfel. No. 1,430,083; Sept. 26.
 Coating composition. G. C. Taylor. No. 1,431,269; Oct. 10.
 Coating composition. M. J. Walsh. No. 1,415,282; May 9.
 Coating composition and artificial leather made therewith, Noncracking. J. E. Booge. No. 1,412,770; Apr. 11.
 Coating composition and process. L. D. Wood. No. 1,430,484; Sept. 26.
 Coating composition and producing the same. W. A. Collings. No. 1,428,272; Sept. 5.
 Coating composition, Coumarone. J. M. Kessler. No. 1,411,035; Mar. 28.
 Coating composition for imitating bark of trees. A. Bumara and S. Ragonesi. No. 1,413,002; Apr. 18.
 Coating composition, Liquid. C. D. Hocker. No. 1,422,861; July 18.

Alphabetical list of inventions—Continued.

- Coating composition, Liquid. B. B. Leach. No. 1,413,599; Apr. 25.
- Coating composition or paint. M. R. Isaacs. No. 1,424,908; Aug. 8.
- Coating composition, Preparing paper-. J. H. Ryan. No. 1,407,773; Feb. 28.
- Coating composition, Surface-. A. C. Holzapfel. No. 1,431,801; Oct. 10.
- Coating compounds, Process and mechanism for continuously solidifying and vulcanizing. L. A. Subers. No. 1,411,593; Apr. 4.
- Coating fabrics. D. D. Frothingham and R. U. Sawyer. No. 1,405,198; Jan. 31.
- Coating for medicinal purposes, Protective. J. L. Dusek. No. 1,430,632; Oct. 3.
- Coating machine. R. D. Schoenwetter. No. 1,416,984; May 23.
- Coating-machine-cleaning apparatus. W. A. Weightman and C. H. Nitsch. No. 1,433,976; Oct. 31.
- Coating machine, Confectionery-. A. L. Bausman. No. 1,407,116; Feb. 21.
- Coating machine, Liquid-. E. F. Müller. No. 1,421,811; July 4.
- Coating material. O. Hommel. No. 1,419,258; June 13.
- Coating metal articles. F. E. Johnson. No. 1,407,067; Feb. 21.
- Coating metal objects with a layer of another metal. O. Stålbane and O. O. Kring. No. 1,426,683; Aug. 22.
- Coating metals for the purpose of permitting electric currents to operate by the action of light. Composition for. H. L. Falk. No. 1,424,088; July 25.
- Coating. Method of and apparatus for applying. L. H. Parker and H. W. Day. No. 1,425,333; Aug. 8.
- Coating of metals with metals of a lower fusing point. H. G. Grinlinton. No. 1,431,395; Oct. 10.
- Coating or sealing composition. M. I. Strauss. No. 1,423,821; July 25.
- Coating process and apparatus. C. T. Davis. No. 1,416,796; May 23.
- Coating the interior of hollow articles, Device for. F. C. Ruppel. No. 1,404,547; Jan. 24.
- Coatings. Machine for applying. A. E. Johnson. No. 1,410,574; Mar. 28.
- Coatings on refractory articles and articles coated therewith. Composition for producing. W. R. Mott. No. 1,425,603; Aug. 15.
- Coatings to metallic surfaces. Producing and applying enamel. H. M. Smith. No. 1,425,612; Aug. 15.
- Cobbling outfit. C. L. Glafcke. No. 1,426,289; Aug. 15.
- Cock, Antifreezing sill. E. E. Coar. No. 1,412,042; Apr. 11.
- Cock, Ball. F. Longshaw and C. S. Allan. No. 1,404,308; Jan. 24.
- Cock, Ball. L. Nair. No. 1,416,496; May 16.
- Cock, Ball. J. Yorks. No. 1,432,145; Oct. 17.
- Cock, Bath. E. M. Rogert. No. 1,434,963; Nov. 7.
- Cock, Capped stop. P. Mueller. No. 1,406,060; Feb. 7.
- Cock device, Angle-. C. C. Farmer. No. 1,409,691; Mar. 14.
- Cock for steam heaters or the like, Governor. W. Sauerbrey. No. 1,412,138; Apr. 11.
- Cock, Gas. J. E. Bean, Jr. No. 1,428,933; Sept. 12.
- Cock, Gas. G. H. Harris. No. 1,426,731; Aug. 22.
- Cock, Gas. H. Margulies. No. 1,420,434; June 20.
- Cock, Gas. A. R. Tallman. No. 1,437,369; Nov. 28.
- Cock, Gauge. F. H. Hehemann. No. 1,409,176; Mar. 14.
- Cock, Gauge. H. Kaempf. No. 1,412,530; Apr. 11.
- Cock, Gauge. A. P. Prendergast. No. 1,439,444; Dec. 19.
- Cock, Gauge. L. Woodruff. No. 1,432,510; Oct. 17.
- Cock, Multiple. P. Mueller. No. 1,403,264; Jan. 10.
- Cock or faucet. Vitreous-china. A. I. Fischer. No. 1,424,562; Aug. 1.
- Cock, Plug. J. C. Martin, Jr. No. 1,416,732; May 23.
- Cock, Priming. J. H. Remington. No. 1,435,553; Nov. 14.
- Cock, Self-lubricating angle. C. C. Farmer. No. 1,403,756; Jan. 17.
- Cock, Stop. C. H. Wise. No. 1,418,118; May 30.
- Cocks, Controlling device for pet. H. Schumacher. No. 1,437,156; Nov. 28.
- Cocks, Drip pan for gauge. G. C. Grantier. No. 1,404,602; Jan. 24.
- Cocks or valves, Device for actuating pet. L. F. Jackson. No. 1,427,819; Sept. 5.
- Cocoa and calcium chloride and producing the same, Homogeneous durable mixture of. E. Felheim. No. 1,411,618; Apr. 4.
- Cocoa cake or the like, Machine for breaking. W. E. Prescott. No. 1,421,560; July 4.
- Coconut butter, Extraction of. E. E. R. Gaudart. No. 1,431,519; Oct. 10.
- Coconut meat, Machine for extracting and shredding. G. D. Olds, Jr. No. 1,438,714; Dec. 12.
- Coconut-shell-cracking machine. H. C. Jones. No. 1,402,234; Jan. 3.
- Coconut shells, Device for removing. J. Rohr and H. Gilbert. No. 1,413,386; Apr. 18.
- Code-sign translator. B. Mora. No. 1,433,144; Oct. 24.
- Coding and decoding or ciphering apparatus, Mechanical. H. G. Telling. No. 1,437,325; Nov. 28.
- Coffee-brewing apparatus. F. H. Simontoa. No. 1,409,123; Mar. 7.
- Coffee extract, Making. L. A. Romero. No. 1,428,256; Sept. 5.
- Coffee maker. F. W. Gibson. No. 1,435,287; Nov. 14.
- Coffee-making apparatus. G. Anston and G. P. Petropoulos. No. 1,408,963; Mar. 7.
- Coffee-making device. H. Mock. No. 1,428,046; Sept. 5.
- Coffee-making device. E. Sprague, Jr. No. 1,431,603; Oct. 10.
- Coffee mill. W. Sommers and L. Fritz. No. 1,420,877; June 27.
- Coffee mill and sifter. V. Rusnak. No. 1,406,761; Feb. 14.
- Coffee percolator. R. E. Farmer. (Reissue.) No. 1,5480; Oct. 31.
- Coffepot. J. E. Dubuisson. No. 1,413,012; Apr. 18.
- Coffepot. F. O. Lindgren. No. 1,432,070; Oct. 17.
- Coffepot, Drip. E. S. Gardiner. No. 1,418,436; June 6.
- Coffepot, Filter. E. Aborn. No. 1,440,047; Dec. 26.
- Coffee pot or urn. C. D. Graves. No. 1,417,243; May 23.
- Coffepots, etc., Lid holder and hand shield for. S. Kuno. No. 1,402,517; Jan. 3.
- Coffee roaster. L. S. Maede. No. 1,439,317; Dec. 19.
- Coffee roaster. N. B. Post. No. 1,423,818; July 25.
- Coffee, Roasting and packing ground or whole. J. A. Reynolds. No. 1,426,011; Aug. 15.
- Coffee substitutes from cereals and the malt of cereals, Manufacture of. K. Lendrich. No. 1,434,297; Oct. 31.
- Cofferdam construction. J. F. Cushing. No. 1,437,044; Nov. 28.
- Cofferdam construction. W. H. Rice. No. 1,418,879; June 6.
- Coffin. J. H. Harper. No. 1,423,848; July 25.
- Coffin. G. M. Mahar and P. M. M. Phelps. No. 1,422,726; July 11.
- Coffin handle. G. W. Blackburn. No. 1,402,041; Jan. 3.
- Cogwheel. M. J. Goedert. No. 1,436,652; Nov. 28.
- Coil box. G. E. Maynard. No. 1,404,627; Jan. 24.
- Coil-box protector. F. P. Lide. No. 1,430,241; Sept. 26.
- Coil-box protector. P. C. Morris. No. 1,419,120; June 6.
- Coil former, Automatic. L. R. Pomeroy. No. 1,402,014; Jan. 3.
- Coil-forming apparatus. A. J. Fathauer. No. 1,435,284; Nov. 14.
- Coil-forming machine. W. Sagl. No. 1,436,322; Nov. 21.
- Coiling machine. C. J. Fancher and R. A. Johnson. No. 1,433,879; Oct. 31.
- Coiling machine, Spring-. A. B. Sinclair. No. 1,407,891; Feb. 28.
- Coil relay, Moving. K. C. Cox. No. 1,427,093; Aug. 29.
- Coil retainer. F. C. Coseo. No. 1,414,773; May 2.
- Coil springs, Sleeve support for. R. G. McCoskrie. No. 1,411,049; Mar. 28.
- Coil-winding apparatus. M. E. Gysel. No. 1,431,947; Oct. 17.
- Coil-winding machine. E. T. Turney. No. 1,414,679; May 2.
- Coil-winding mechanism, Semiautomatic. C. A. Wickstrom. No. 1,430,869; Oct. 3.
- Colls, Lock for induction. H. F. Maguire. No. 1,405,305; Jan. 31.
- Coils, Machine for forming armature. J. F. Comstock. No. 1,437,887; Dec. 5.
- Coils of aluminum, Manufacturing electric. E. W. Küttner. No. 1,431,237; Oct. 10.
- Coin and stamp box. J. R. Halley. No. 1,430,307; Sept. 26.
- Coin, Apparatus for holding and discharging. N. J. Doyle. No. 1,434,106; Oct. 31.
- Coin-assembling device. A. E. Boulton. No. 1,401,957; Jan. 3.
- Coin-controlled apparatus. W. M. Updegrave. No. 1,408,317; Feb. 28.
- Coin-controlled lock. D. C. Morgan. No. 1,418,091; May 30.
- Coin-controlled mechanism. W. F. Moriarty. No. 1,419,581; June 13.
- Coin-controlled mechanism. H. R. Roberts. No. 1,410,510; Mar. 21.
- Coin-controlled mechanism. M. L. Williams. No. 1,410,635; Mar. 28.
- Coin counting and wrapping device. A. Abbott. Nos. 1,406,958-9; Feb. 21.
- Coin-counting machine. H. J. Baur. No. 1,410,239; Mar. 21.
- Coin-counting machines, Wrapper holding mechanism for. E. P. Donnellan. No. 1,406,623; Feb. 14.
- Coin-delivering device. U. Kawaski. No. 1,420,631; June 27.
- Coin-delivery machine. R. and J. W. Cairns. No. 1,431,215; Oct. 10.
- Coin-deposit receptacle. C. Gibbs. No. 1,415,168; May 9.
- Coin-dispensing apparatus. E. H. Thompson. No. 1,404,909; Jan. 31.
- Coin holder. A. D. Fuller. No. 1,435,834; Nov. 14.
- Coin holder. W. R. Gross. No. 1,437,733; Dec. 5.
- Coin holder. F. E. Pomroy. No. 1,434,501; Nov. 7.
- Coin holder. J. J. Szepe. No. 1,432,498; Oct. 17.
- Coin holder. R. Wallenstein. No. 1,414,845; May 2.
- Coin indicating and checking mechanism. J. V. Horn. No. 1,407,541; Feb. 21.
- Coin-lock mechanism. R. B. Buzzaird. No. 1,411,952; Apr. 4.
- Coin-operated lock. M. N. Smith. No. 1,432,306; Oct. 17.
- Coin-selecting device. H. W. Barson. No. 1,403,933; Jan. 17.

- Coin selector, Automatic. D. Hendrickson. No. 1,428,632; Sept. 12.
- Coin separating and counting device. H. W. Roeling, E. H. Williams, and J. G. Bauer. No. 1,421,992; July 4.
- Coin separator. J. W. Martin. No. 1,419,878; June 13.
- Coin sorter. G. A. Klove. No. 1,411,848; Apr. 4.
- Coin sorter. W. L. Paul. No. 1,416,120; May 16.
- Coin sorting and distributing device. J. E. Doldt. No. 1,433,942; Oct. 31.
- Coin stacker. P. F. Friesen. No. 1,407,140; Feb. 21.
- Coin till. J. D. Pettit. No. 1,438,135; Dec. 5.
- Coin wrapper. J. W. Cryder and W. C. Hilday. No. 1,405,296; Jan. 31.
- Coin wrapper. J. J. Reinhold. No. 1,420,285; June 20.
- Coins. Machine for operating upon. J. E. Doldt. No. 1,433,943; Oct. 31.
- Coining and dies therefor. P. E. Bird. No. 1,434,190; Oct. 31.
- Coke. Apparatus for quenching, loading, and screening. C. Still. No. 1,429,791; Sept. 19.
- Coke from waste fuel and residues. Plant for separating. W. Weber. No. 1,429,987; Sept. 26.
- Coke in narrow containers. Process of and device for quenching. W. Schöndeling. No. 1,424,777; Aug. 8.
- Coke or carbon from slag or the like. Apparatus for the separation of. F. Lioud. No. 1,438,537; Dec. 12.
- Coke oven. P. Goffart. No. 1,429,281; Sept. 19.
- Coke oven. A. Roberts. No. 1,430,588; Oct. 3.
- Coke-oven decarbonization. L. Wilputte. No. 1,435,361; Nov. 14.
- Coke-oven doors. Apron for. L. E. Doty and F. H. Smith. No. 1,422,756; July 11.
- Coke-oven heating wall. A. Roberts. No. 1,404,061; Jan. 17.
- Coke-oven smoke-fine carriage. J. Becker. No. 1,410,447; Mar. 21.
- Coke oven. Sole-heated. B. Zwilling. No. 1,428,622; Sept. 12.
- Coke-oven wall. O. Piette. No. 1,429,252; Sept. 19.
- Coke-oven-wall construction. J. Geiger. No. 1,433,450; Oct. 24.
- Coke oven with sole firing. By-product. B. Zwilling. No. 1,428,621; Sept. 12.
- Coke oven with vertical heating flues. Subheated. W. Hiby. No. 1,436,094; Nov. 21.
- Coke ovens. Automatic regulator for. W. M. Shallcross. No. 1,424,042; July 25.
- Coke ovens. Construction of subheated regenerative. W. Hiby. No. 1,436,098; Nov. 21.
- Coke ovens for the alternate heating with strong or lean gas. Construction of. W. Hiby. No. 1,436,095; Nov. 21.
- Coke ovens with regenerators. Construction of horizontal. W. Hiby. No. 1,436,096; Nov. 21.
- Coke ovens with vertical heating flues. Construction of subheated regenerative. W. Hiby. No. 1,436,097; Nov. 21.
- Coke-quenching receptacle. A. Frankel. No. 1,421,445; July 4.
- Coking coal. F. Puening. No. 1,419,908; June 13.
- Coking process. H. H. Dow. No. 1,435,219; Nov. 14.
- Coking retort oven. J. Becker. No. 1,416,322; May 16.
- Colander. Mechanical. E. Wilson. No. 1,425,431; Aug. 8.
- Cold-roll feeding mechanism. E. T. Lorig and H. G. McIlvried. No. 1,427,002; Aug. 22.
- Collapsible bit. P. B. Mitchell. No. 1,435,491; Nov. 14.
- Collapsible box. E. M. Averill. No. 1,422,912; July 13.
- Collapsible box. N. A. Gibbons. No. 1,422,692; July 11.
- Collapsible box. A. B. McLaren. No. 1,414,196; Apr. 25.
- Collapsible box. W. E. Walmsley. No. 1,414,236; Apr. 25.
- Collapsible carrier. R. T. Van Valkenburg. No. 1,414,535; May 2.
- Collapsible chair. A. Gutter. No. 1,420,095; June 20.
- Collapsible handle. J. W. Bate. No. 1,426,809; Aug. 22.
- Collapsible horse. A. Reiman. No. 1,435,738; Nov. 14.
- Collapsible stand. R. D. H. Anderson. No. 1,424,271; Aug. 1.
- Collapsible table. H. R. Brady. No. 1,432,959; Oct. 24.
- Collapsible tube. G. W. Fullerton. No. 1,437,934; Dec. 5.
- Collapsible tube. W. Kalb. No. 1,437,249; Nov. 28.
- Collapsible tube. C. H. Payne. No. 1,427,411; Aug. 29.
- Collapsible tube. W. C. Vehse. No. 1,433,049; Oct. 24.
- Collar. R. Baer. No. 1,427,752; Aug. 29.
- Collar. W. J. Getsinger. No. 1,413,470; Apr. 18.
- Collar. E. Gonzalez. No. 1,412,931; Apr. 18.
- Collar. C. M. Hobson. No. 1,403,956; Jan. 17.
- Collar. H. A. Klein. No. 1,431,009; Oct. 3.
- Collar. J. Layden. No. 1,427,745; Aug. 29.
- Collar. S. Schwartz. Nos. 1,432,126-7; Oct. 17.
- Collar. H. B. Stoddard. No. 1,427,032; Aug. 22.
- Collar. H. J. Vigneault. No. 1,407,342; Feb. 21.
- Collar. M. M. Weil. Nos. 1,434,258-60; Oct. 31.
- Collar and cuff buttons. Protector for. F. F. Schultz. No. 1,421,314; June 27.
- Collar and hame. Combination. J. H. Cary and J. D. McMurtry. No. 1,402,920; Jan. 10.
- Collar. Apparel. I. Gross. No. 1,403,769; Jan. 17.
- Collar burster. H. C. Lonsdale. No. 1,403,612; Jan. 17.
- Collar button. J. O'Neal. No. 1,419,298; June 13.
- Collar case. J. M. May. No. 1,429,608; Sept. 19.
- Collar clasp. A. E. Gardner. No. 1,430,804; Oct. 3.
- Collar clasp. Soft. H. L. Tooker. No. 1,429,804; Sept. 19.
- Collar clip. O. J. V. Ferguson. No. 1,431,388; Oct. 10.
- Collar. Coat. O. A. Barbour. No. 1,408,492; Mar. 7.
- Collar crimping and turning machine. J. W. Hess. No. 1,436,169; Nov. 21.
- Collar. Declutchable safety. D. C. Klausmeyer. No. 1,408,891; Mar. 7.
- Collar. Dog. D. B. Mitchell. No. 1,408,123; Feb. 28.
- Collar fastener. J. Gussett. No. 1,427,531; Aug. 29.
- Collar fastener. P. M. Kemper. No. 1,402,867; Jan. 10.
- Collar fastener. G. O. Smith. No. 1,419,696; June 13.
- Collar fastener. Horse. E. Hawkins. No. 1,431,951; Oct. 17.
- Collar fastener. Soft. J. Drexler. No. 1,434,533; Nov. 7.
- Collar. Fold. R. O. Kennedy, A. H. Gillespie, and R. C. Marshall. No. 1,424,918; Aug. 8.
- Collar holder. C. H. Allen. No. 1,404,257; Jan. 24.
- Collar holder. A. L. Sawyer. No. 1,414,216; Apr. 25.
- Collar holder. Soft. L. Figarsky. No. 1,425,953; Aug. 15.
- Collar holder. Soft. F. Guidry. No. 1,408,290; Feb. 28.
- Collar. Retaining. U. S. Eberhardt. No. 1,408,993; Mar. 7.
- Collar saddle. H. G. Anderson. No. 1,426,533; Aug. 22.
- Collar shaper. C. E. Waream. No. 1,433,316; Oct. 24.
- Collar. Soft turndown. H. J. Moore. No. 1,437,066; Nov. 28.
- Collar. Soft turndown. F. B. Twining. No. 1,416,530; May 16.
- Collar. Soft turnover. F. B. Twining. No. 1,436,831; Nov. 28.
- Collar support. D. Feigenbaum. No. 1,414,119; Apr. 25.
- Collar support. J. B. Fitzpatrick. No. 1,412,028; Apr. 4.
- Collar support. Soft. V. H. Fairless. No. 1,427,727; Aug. 29.
- Collar. Thrust. J. H. Reedy. No. 1,409,576; Mar. 14.
- Collars and cuffs. Multiply interwoven fabric for. H. J. Moore. No. 1,437,067; Nov. 28.
- Collars and cuffs. Multiply interwoven fabric for. F. B. Twining. No. 1,420,504; June 20.
- Collars and cuffs. Multiply interwoven fabric for. F. B. Twining. No. 1,436,832; Nov. 28.
- Collars. Attachment for. J. Faruolo. No. 1,431,387; Oct. 10.
- Collars. Front fastening for soft. H. J. Vigneault. No. 1,425,153; Aug. 8.
- Collars. Necktie-knot retainer for. W. and H. Karl. No. 1,424,763; Aug. 8.
- Collection systems. Means employed in. G. W. Bush. No. 1,419,815; June 13.
- Collector-lifting mechanism. S. Arnold, 3d. No. 1,408,158; Feb. 28.
- Collector ring. R. A. McCarty. No. 1,404,871; Jan. 31.
- Collectors. Guide for current. C. B. Buchanan and C. C. Johnson. No. 1,405,270; Jan. 31.
- Collet-forming machine. C. J. Fancher and R. A. Johnson. No. 1,433,880; Oct. 31.
- Collet. Master. W. C. Elbe. No. 1,408,182; Feb. 28.
- Collision mat and torpedo-deflecting device. Combined. J. McMillan, Jr. No. 1,410,820; Mar. 28.
- Colloidal compound of antimony sulphide. M. E. Wolvekamp. No. 1,412,438; Apr. 11.
- Colloidal solution and preparing same. H. Hemelmann. No. 1,429,876; Sept. 19.
- Colloidal sulpharsenite. Soluble combination with a. M. E. Wolvekamp. No. 1,412,439; Apr. 11.
- Color composition and preparing same. J. J. Porter. No. 1,402,442; Jan. 3.
- Color effects. Producing. A. S. Cushman. No. 1,423,089; July 18.
- Color effects. Producing. L. Ornstein. No. 1,410,344; Mar. 21.
- Color from caustic alkali. Eliminating. T. C. Meadows and H. D. Ruhm. No. 1,415,186; May 9.
- Color-identifying apparatus. N. Macbeth. No. 1,408,109; Feb. 28.
- Color-matching room. G. S. Radford. No. 1,423,882; July 25.
- Color music and other luminous effects and apparatus therefor. Production of. A. B. Hector. Nos. 1,432,552-3; Oct. 17.
- Color print viewable by lights of different colors and making same. C. Berger. No. 1,422,527; July 11.
- Color-sifting machine. J. Kazienko. No. 1,432,866; Oct. 24.
- Coloring matter for beer. Manufacturing a. H. Lüers. No. 1,418,945; June 6.
- Colors. Method and apparatus for mixing. K. W. Connor. No. 1,403,485; Jan. 17.
- Colter. E. J. Strout. No. 1,425,422; Aug. 8.
- Colter. H. R. Traphagen. No. 1,421,111; June 27.
- Colter adjustment. Clamp principally for. L. H. Schulze. No. 1,420,451; June 20.
- Colter. Rolling. J. H. Doffing. No. 1,413,709; Apr. 25.
- Colters and the like. Yoke construction for rolling. R. J. Altgelt. No. 1,428,518; Sept. 12.
- Colters. Means for mounting. W. H. Silver. No. 1,427,649; Aug. 29.
- Column. Building. J. Lally. No. 1,432,192; Oct. 17.
- Column clamp. L. Lampert. No. 1,433,830; Oct. 31.
- Column clamp. W. B. Leonard. No. 1,403,042; Jan. 10.
- Column mold. F. Olson. No. 1,405,934; Feb. 7.
- Columns. Method of and means for producing stucco. B. J. Long. No. 1,438,186; Dec. 12.
- Comb. See—
- Drop-placer comb. Hair comb.
- Fountain comb.
- Comb. C. F. Beck. No. 1,434,185; Oct. 31.

Alphabetical list of inventions—Continued.

- Comb. J. Biderman. No. 1,425,937; Aug. 15.
 Comb. D. K. Echols. No. 1,425,757; Aug. 15.
 Comb. H. Hendrickson. No. 1,409,855; Mar. 14.
 Comb. V. M. Kaniefski. No. 1,440,015; Dec. 26.
 Comb. C. Lewis. No. 1,439,248; Dec. 19.
 Comb. G. V. Miller. No. 1,425,269; Aug. 8.
 Comb. S. E. Monroe. No. 1,415,188; May 9.
 Comb. E. R. Person. No. 1,419,753; June 13.
 Comb. A. A. Plough. No. 1,433,413; Oct. 24.
 Comb. E. H. Ross. No. 1,429,635; Sept. 19.
 Comb and brush, Combination. J., E., and E. Stasyszen. No. 1,439,923; Dec. 26.
 Comb and cartridge therefor, Fountain. A. R. Spielberger. No. 1,407,230; Feb. 21.
 Comb and producing same, Artificial. W. G. Cook. No. 1,427,149; Aug. 29.
 Comb and toothbrush, Combination. C. E. Fullam. No. 1,433,609; Oct. 31.
 Comb attachment. J. W. English. No. 1,440,069; Dec. 26.
 Comb, Band. W. S. Bechtold. No. 1,406,819; Feb. 14.
 Comb case, Combination. F. W. Bowler. No. 1,421,392; July 4.
 Comb cleaner. A. Gran. No. 1,412,860; Apr. 18.
 Comb cleaner. F. E. Happel. No. 1,431,397; Oct. 10.
 Comb cleaner. C. Runyan. No. 1,422,788; July 11.
 Comb-cutting machine. H. Schelhammer. Nos. 1,423,967-8; July 25.
 Comb, Fiber. S. Friedman and M. Ohlbaum. No. 1,405,576; Feb. 7.
 Comb, Fountain. J. Brueck and N. Salter. No. 1,408,262; Feb. 28.
 Comb, Fountain. G. M. Charles. No. 1,413,320; Apr. 18.
 Comb, Hair. J. Sacker. No. 1,426,111; Aug. 15.
 Comb, Hair. C. Strier. No. 1,429,794; Sept. 19.
 Comb, Hair-straightening. L. B. Cason. No. 1,413,255; Apr. 18.
 Comb, Massage. P. Nach. No. 1,436,776; Nov. 28.
 Comb, Pneumatic. H. Gee. No. 1,431,943; Oct. 17.
 Comb, Pocket. E. J. Qvarnstrom. No. 1,414,042; Apr. 25.
 Comb, Self-cleaning. A. Partin and M. L. Stevenson. No. 1,440,236; Dec. 26.
 Comb, Shampoo. A. T. Wong. No. 1,439,594; Dec. 19.
 Comb, Stripping. M. J. Collins. No. 1,407,638; Feb. 21.
 Comb and cleaning machine. Cotton. W. G. Turner and J. E. Morrison. No. 1,438,879; Dec. 12.
 Combining machine. J. W. Clegg. No. 1,402,569; Jan. 3.
 Combining machine. J. W. Clegg. No. 1,418,908; June 6.
 Combining machine. J. W. Clegg. No. 1,424,621; Aug. 1.
 Combining machine. J. Fossil. No. 1,416,951; May 23.
 Combining machine. J. W. Nasmith. Nos. 1,402,369-70; Jan. 3.
 Combining machine. J. W. Nasmith. No. 1,416,739; May 23.
 Combining machine. J. W. Nasmith. No. 1,430,023; Sept. 26.
 Combining machine. T. Ross. No. 1,407,170; Feb. 21.
 Combining machine. R. Taylor. No. 1,424,692; Aug. 1.
 Combining machine, Wool-. M. Böhmer. No. 1,429,911; Sept. 19.
 Combining machines, Half lap for. M. Böhmer. No. 1,431,904; Oct. 10.
 Combs, Machine for making. G. Kohlmeier, C. E. Wing, and H. Schelhammer. No. 1,425,595; Aug. 15.
 Combs, Machine for making. C. E. Wing and H. Schelhammer. No. 1,423,981; July 25.
 Combs of Noble's and the like combing machines, Circular. H. R. Mazzetti. No. 1,437,985; Dec. 5.
 Combination burner. P. A. Morgan. No. 1,436,516; Nov. 21.
 Combination chair. S. Plesec. No. 1,428,804; Sept. 12.
 Combination gauge. E. G. Morin, Jr. No. 1,402,005; Jan. 3.
 Combination lock. C. J. Anderson and W. H. Van Dyke. No. 1,423,384; July 18.
 Combination lock. J. S. Erickson. No. 1,406,629; Feb. 14.
 Combination lock. V. G. Ericson. No. 1,402,221; Jan. 3.
 Combination lock. H. M. Hainline. No. 1,420,483; June 20.
 Combination lock. J. J. Haskin. No. 1,407,273; Feb. 21.
 Combination lock. N. Luckow. No. 1,433,086; Oct. 24.
 Combination lock. D. J. O'Donnell. No. 1,433,147; Oct. 24.
 Combination lock. D. J. O'Sullivan. No. 1,436,285; Nov. 21.
 Combination lock. A. Pass. No. 1,410,033; Mar. 21.
 Combination lock. W. J. H. Ruschmeyer. No. 1,427,551; Aug. 29.
 Combination lock. L. E. Sheets. No. 1,418,176; May 30.
 Combination lock. J. Slevvis. No. 1,418,681; June 6.
 Combination lock. H. H. Smith. No. 1,430,332; Sept. 26.
 Combination lock. J. Spadafora. No. 1,433,245; Oct. 24.
 Combination lock. W. Wisniewski. No. 1,416,250; May 16.
 Combination lock. J. M. Zweiman. No. 1,417,789; May 30.
 Combination lock, Electric. H. Rayner. No. 1,420,575; June 20.
 Combination lock, Secret. J. Ciotola and D. Poldoro. No. 1,416,790; May 23.
 Combination mold. A. L. Schavoir. No. 1,409,591; Mar. 14.
 Combination-operated lock. F. Gambino. No. 1,426,977; Aug. 22.
 Combination pot. C. Peduto and V. Marino. No. 1,419,515; June 13.
 Combination table. G. Floreskul. No. 1,421,929; July 4.
 Combination table. J. L. Happy. No. 1,427,208; Aug. 29.
 Combustible material, Making. H. S. Mork and G. J. Esselin, Jr. No. 1,416,493; May 16.
 Combustibles such as Montan wax, Extraction of fusible. H. Plauson. No. 1,437,775; Dec. 5.
 Combustion apparatus, Method and. W. Barstow. No. 1,436,076; Nov. 21.
 Combustion chamber. J. Hicks. No. 1,414,360; May 2.
 Combustion chambers, Feeding fluid fuel and air to. J. C. Hobbs. No. 1,409,111; Mar. 7.
 Combustion engine. L. L. Clark. No. 1,402,573; Jan. 3.
 Combustion engine. W. Harper, Jr. No. 1,413,912; Apr. 25.
 Combustion engine, Rotary. W. Yeatts. No. 1,430,929; Oct. 3.
 Combustion, Method of and apparatus for arresting. J. M. Boyle. No. 1,402,711; Jan. 3.
 Combustion motor. A. Kaschtosky. No. 1,427,395; Aug. 29.
 Combustion process. R. J. Anderson. No. 1,433,059; Oct. 24.
 Comestibles, Method and apparatus for handling. P. W. Petersen. No. 1,422,126; July 11.
 Comfort lift, Invalid's sanitary. N. F. Hurst. No. 1,404,300; Jan. 24.
 Comforter or wadded quilt. H. A. Calef. No. 1,421,906; July 4.
 Comminuted material, Apparatus for handling. A. G. McGregor. No. 1,422,997; July 18.
 Commutator. G. E. Cook. No. 1,426,960; Aug. 22.
 Commutator. A. E. Doman. No. 1,406,448; Feb. 14.
 Commutator. O. A. Eckre. No. 1,420,026; June 20.
 Commutator. H. S. Harris, A. E. Waite, and L. C. McCormick. No. 1,404,761; Jan. 31.
 Commutator. H. W. Howes. No. 1,415,931; May 16.
 Commutator. T. C. Russell. No. 1,432,038; Oct. 17.
 Commutator. W. Sparks. No. 1,421,734; July 4.
 Commutator. W. B. Sperman. No. 1,414,313; Apr. 25.
 Commutator and battery-charging outfit including the same. D. S. Scarborough. No. 1,421,998; July 4.
 Commutator and the like. S. R. Bergman. No. 1,419,803; June 13.
 Commutator brush. W. S. Click. No. 1,425,632; Aug. 15.
 Commutator-brush adjuster, Automatic. C. Rumbelt. No. 1,406,495; Feb. 14.
 Commutator brush, Finishing the contact member of a. F. Leister. No. 1,405,049; Jan. 31.
 Commutator construction. T. W. Varley. No. 1,430,866; Oct. 3.
 Commutator cylinder. C. W. Starker. No. 1,428,865; Sept. 12.
 Commutator flashovers, Means for minimizing. N. W. Storer. No. 1,412,546; Apr. 11.
 Commutator-segment mounting. W. E. Richter. No. 1,426,105; Aug. 15.
 Commutator-segments manufacture. H. P. Janke. No. 1,429,352; Sept. 19.
 Commutator undercutting tool. W. W. Hill. No. 1,438,645; Dec. 12.
 Commutators, Cleaning and lubricating device for. L. A. Barry. No. 1,412,647; Apr. 11.
 Commutators, Lathe for truing. M. O. Ankarberg. No. 1,403,370; Jan. 10.
 Commutators, Spool or holder for. C. A. Van Dusen. No. 1,424,954; Aug. 8.
 Commutators, Surfacing machine for. L. A. Schauer and E. C. Myers. No. 1,416,981; May 23.
 Compartmental device. G. C. Kennedy. No. 1,412,943; Apr. 18.
 Compass, Aeronautical. K. A. Kretschmar. No. 1,416,841; May 23.
 Compass and sun dial, Combination. G. Hollinwood. No. 1,418,926; June 6.
 Compass, Beam. C. C. Reitenbaugh. No. 1,404,794; Jan. 31.
 Compass, Gyroscopic. G. A. Rossiter. No. 1,425,056; Aug. 8.
 Compass, Lead. R. C. Dickson. No. 1,429,848; Sept. 19.
 Compass, Magnetic. C. H. Colvin. No. 1,431,776; Oct. 10.
 Compass, Magnetic. C. W. Eisenmann. No. 1,435,633; Nov. 14.
 Compass, Mariner's. M. B. Field. No. 1,419,836; June 13.
 Compass scale. W. V. Pogue. No. 1,423,019; July 18.
 Compasses. A. Lyslak. No. 1,402,509; Jan. 3.
 Compasses. H. Perrot. No. 1,429,625; Sept. 19.
 Compasses, Correction device for repeater. E. A. Sperry. No. 1,403,062; Jan. 10.
 Compasses for drawing oviform curves. J. Hardt. No. 1,431,654; Oct. 10.
 Compasses, Jewel support for. E. W. Day. No. 1,424,804; Aug. 8.
 Compasses, Straight-line guide for the handles of. A. Renzelberg. No. 1,425,133; Aug. 8.
 Compensating device. G. O. Gray. No. 1,404,846; Jan. 31.
 Compensating device. J. Gumber and F. F. Fearheiley. No. 1,423,480; July 18.
 Compensating gauge. C. H. Berry. No. 1,420,953; June 27.
 Compensating gauge, Automatic. C. H. Berry. No. 1,413,514; Apr. 18.
 Compensating starting switch. V. N. Marker. No. 1,422,592; July 11.

- Compensator. R. M. Allen and P. Neill. No. 1,415,973; May 16.
- Compensator, Starting. P. Dunning. No. 1,421,923; July 4.
- Complemental parts, Producing. E. B. Nichols. No. 1,430,024; Sept. 26.
- Compo-board machine. W. P. Porter. No. 1,427,971; Sept. 5.
- Composite structure. C. D. Brooks. No. 1,428,320; Sept. 5.
- Composition and producing same, Surfacing. W. B. Robeson. No. 1,405,941; Feb. 7.
- Composition-applying machine. W. Cameron. No. 1,433,673; Oct. 31.
- Composition, Filling. R. Rice. No. 1,429,455; Sept. 19.
- Composition of matter and making same. H. S. Levenson. No. 1,431,165; Oct. 10.
- Composition of matter and producing same. R. O. Phillips. No. 1,413,557; Apr. 18.
- Compound, Cleansing. R. and H. Moore. No. 1,426,589; Aug. 22.
- Compounds preferably of a hydrocarbon nature, Method and apparatus for treating or converting. W. J. Knox. No. 1,428,641; Sept. 12.
- Compressing apparatus. K. Girdwood. No. 1,439,810; Dec. 26.
- Compressing machine. T. Lund. No. 1,426,399; Aug. 22.
- Compressing machine with automatic oil return. A. O. Girard. No. 1,416,705; May 23.
- Compression member for structures. F. E. von Emperger. No. 1,412,096; Apr. 11.
- Compression meter. M. C. White. No. 1,437,830; Dec. 5.
- Compression-testing device. E. A. Hammett. No. 1,403,685; Jan. 17.
- Compressor. D. C. Baker. No. 1,429,829; Sept. 19.
- Compressor. L. J. Clapp. No. 1,435,135; Nov. 7.
- Compressor. J. H. Denny. No. 1,407,518; Feb. 21.
- Compressor. J. H. Denny. Nos. 1,416,695-6; May 23.
- Compressor. G. A. Gase. No. 1,425,192; Aug. 8.
- Compressor. R. C. Hilton. No. 1,407,275; Feb. 21.
- Compressor. H. C. Johansen. No. 1,404,176; Jan. 17.
- Compressor. J. G. Johnson. No. 1,436,263; Nov. 21.
- Compressor. G. I. Leonard. No. 1,424,312; Aug. 1.
- Compressor. W. Prellwitz. No. 1,408,638; Mar. 7.
- Compressor and condenser, Combined. A. Selrod. No. 1,429,460; Sept. 19.
- Compressor-controller mechanism. F. D. Holdsworth. Nos. 1,408,942-3; Mar. 7.
- Compressor, Fluid. A. S. Haslam. No. 1,408,593; Mar. 7.
- Compressor, Hydraulic air. G. T. Underwood. No. 1,425,813; Aug. 15.
- Compressor of rotary engine, Rotary. P. L. Bowser. No. 1,419,915; June 20.
- Compressor of rotary engine, Rotary. J. Joynt and P. L. Bowser. No. 1,419,930; June 20.
- Compressor, Overhead-valve-spring. J. C. Thompson. No. 1,405,696; Feb. 7.
- Compressor regulator. C. W. Metzgar. No. 1,430,578; Oct. 3.
- Compressor, Revolving. F. Gerling. No. 1,435,462; Nov. 14.
- Compressor, Revolving air. F. A. Gerling. No. 1,408,188; Feb. 28.
- Compressor, Spring. F. Timmerman. No. 1,428,566; Sept. 12.
- Compressor unit, High-pressure. F. W. Parsons. No. 1,430,581; Oct. 3.
- Compressor unit, Portable. F. W. Parsons. No. 1,415,047; May 9.
- Compressor unit, Vertical. F. W. Parsons. No. 1,418,202; May 30.
- Compressor unloader. S. B. Redfield. No. 1,421,309; June 27.
- Compressor unloader. S. B. Redfield. No. 1,428,981; Sept. 12.
- Compressors, Control apparatus for. E. A. Lee. No. 1,410,485; Mar. 21.
- Compressors, Cooling device in multistage centrifugal. B. Graemiger. No. 1,425,855; Aug. 15.
- Compressors, Impeller for centrifugal. A. A. Brooks. No. 1,426,954; Aug. 22.
- Compressors, Impeller for centrifugal. G. W. McKee. No. 1,426,581; Aug. 22.
- Compressors, Piston drive for. W. Gensecke. No. 1,435,224; Nov. 14.
- Compressors, Pneumatic evacuating device for. A. Augustin-Normand. No. 1,402,707; Jan. 3.
- Compressors, Regulator for. W. Raymond. No. 1,402,016; Jan. 3.
- Compressors, Starting and unloading device for. B. S. Aikman. No. 1,412,819; Apr. 18.
- Compressors, etc., Unloader for. F. D. Holdsworth and C. W. Wyman. No. 1,404,175; Jan. 17.
- Computer. S. F. Nuckolls. No. 1,436,282; Nov. 21.
- Computer, Cutting allowance. E. M. Miller. No. 1,404,158; Jan. 17.
- Computing and recording machine. A. Smith. No. 1,426,419; Aug. 22.
- Computing device. J. G. Clark. No. 1,423,493; July 18.
- Computing device. E. H. Gibb. No. 1,413,021; Apr. 18.
- Computing device. A. H. C. Hornbostel. No. 1,411,357; Apr. 4.
- Computing device. G. D. Johnson. No. 1,405,847; Feb. 7.
- Computing device. N. M. Purviance. No. 1,426,332; Aug. 15.
- Computing device. J. H. White. No. 1,413,088; Apr. 18.
- Computing device, Zone-fare. J. F. Ohmer, Jr. No. 1,402,789; Jan. 10.
- Computing exposure meter. T. M. Aiken. No. 1,414,972; May 2.
- Computing instrument. L. J. Leishman. No. 1,433,083; Oct. 24.
- Computing machine. F. W. Blake. No. 1,438,014; Dec. 5.
- Computing machine. R. W. Bumstead. No. 1,414,978; May 2.
- Computing machine. L. E. Giles. No. 1,414,355; May 2.
- Computing machine. A. Guindon. No. 1,416,194; May 16.
- Computing machine. A. Koronski. No. 1,417,924; May 30.
- Computing machine. W. E. Royster, Jr., and K. B. Royster. No. 1,414,436; May 2.
- Computing machine. E. Thomas. No. 1,413,999; Apr. 25.
- Computing mechanism. J. T. Howieson. No. 1,405,589; Feb. 7.
- Computing stock, Card for use in. P. F. W. C. Krippendorf. No. 1,439,004; Dec. 19.
- Concentrating surface. D. W. Shepherd. No. 1,405,018; Jan. 31.
- Concentrating table and method. V. F. Newman and M. W. Loomis. No. 1,423,777; July 25.
- Concentrating tables, Head motion for. E. Deister. No. 1,433,500; Oct. 24.
- Concentrator. G. T. Cooley. No. 1,429,845; Sept. 19.
- Concentrator. J. B. McCarthy. No. 1,417,189; May 23.
- Concentrator. W. P. Ogden. No. 1,428,392; Sept. 5.
- Concentrator. G. A. Overstrom. No. 1,417,681; May 30.
- Concentrator. W. S. Stacy. No. 1,410,616; Mar. 28.
- Concertina keyboard. F. S. Pitt-Taylor. No. 1,417,107; May 23.
- Concrete and asphalt mixer. H. M. Druce. No. 1,432,323; Oct. 17.
- Concrete and its application for concrete constructions, Hollow body from. O. Hermoye and C. Glorian. No. 1,412,113; Apr. 11.
- Concrete and like blocks, pipes, posts, and girders, Apparatus for use in manufacturing. P. C. Cannon. No. 1,404,578; Jan. 24.
- Concrete and like building block or slab. A. C. Matthews. No. 1,421,278; June 27.
- Concrete and making it, Corrugated sheet of fiber. S. A. Williams. No. 1,433,864; Oct. 31.
- Concrete and molding it, Curved-surfaced body of fiber cement. S. A. Williams. No. 1,435,905; Nov. 14.
- Concrete and plastic work, Apparatus for producing. W. T. Spring. No. 1,438,506; Dec. 12.
- Concrete and the like, Apparatus for producing hollow structures of. T. C. Colt. No. 1,437,960; Dec. 5.
- Concrete, Apparatus for cutting. A. O. Crozier. No. 1,405,671; Feb. 7.
- Concrete articles, Mold for making. C. F. Buente. No. 1,431,565; Oct. 10.
- Concrete beam chair. W. E. White. No. 1,415,074; May 9.
- Concrete beams, Mold for. S. Bruun. No. 1,423,708; July 25.
- Concrete block. A. G. Hatch. No. 1,412,686; Apr. 11.
- Concrete block construction. W. C. Parmley. No. 1,435,174; Nov. 14.
- Concrete block, Hollow. A. M. Cramer. No. 1,415,222; May 9.
- Concrete-block machine. M. B. Owens. No. 1,410,832; Mar. 28.
- Concrete-block machine. D. Torricelli. No. 1,403,925; Jan. 17.
- Concrete blocks, slabs, and the like, Machine for making. F. S. Sumpter. No. 1,411,757; Apr. 4.
- Concrete bodies, Anchoring means for. J. M. Fox. No. 1,428,771; Sept. 12.
- Concrete bodies characterized by curved cross section, Apparatus for molding fiber cement. S. A. Williams. No. 1,435,906; Nov. 14.
- Concrete body, Dampproofing. F. G. Jordan. No. 1,429,740; Sept. 19.
- Concrete bricks, Apparatus for making. A. G. Hatch. No. 1,425,590; Aug. 15.
- Concrete bridges, Mold apparatus for. C. Brynoldt. No. 1,402,143; Jan. 8.
- Concrete bucket, Underwater. F. M. Preston. No. 1,435,734; Nov. 14.
- Concrete building. J. T. Simpson. No. 1,409,251; Mar. 14.
- Concrete building block. L. L. Mixon. No. 1,412,666; Apr. 11.
- Concrete building construction. C. G. Muench. No. 1,417,553; May 30.
- Concrete building form. P. J. Hueber. No. 1,421,236; June 24.
- Concrete building structure. J. Partee. No. 1,423,779; July 25.
- Concrete-casing-making machine. C. H. Lassiter. No. 1,430,451; Sept. 26.
- Concrete channels and floors, Mold for. G. R. Elliott. No. 1,407,737; Feb. 28.
- Concrete chimneys, Form for use in erecting tapered. C. H. McGirr. No. 1,435,488; Nov. 14.

Alphabetical list of inventions—Continued.

- Concrete-chute distributing system. J. F. Robb. No. 1,418,738; June 6.
- Concrete-column cap. S. H. Ingberg. No. 1,407,277; Feb. 21.
- Concrete column, Reinforced-. H. E. Butcher. No. 1,410,453; Mar. 21.
- Concrete column, Reinforced-. M. Cvetkovich. No. 1,436,577; Nov. 21.
- Concrete-column reinforcement. G. E. Thackray. No. 1,413,199; Apr. 18.
- Concrete columns, Form for. C. H. Hopmann. No. 1,430,376; Sept. 26.
- Concrete columns or posts, Construction of reinforced-. F. W. Bradshaw. No. 1,417,445; May 23.
- Concrete columns, Spacing bar for use in reinforced-. T. Kardong. No. 1,409,217; Mar. 14.
- Concrete construction. E. S. Luard. No. 1,425,114; Aug. 8.
- Concrete construction. R. A. Megenity. No. 1,402,429; Jan. 3.
- Concrete construction and other purposes, Beam or like structural member for use in reinforced-. R. H. Rogers. No. 1,433,232; Oct. 24.
- Concrete-construction apparatus. W. C. Polk. No. 1,438,784; Dec. 12.
- Concrete construction for piers, bulkheads, seawalks, and dry docks, Reinforced-. A. Brownlee. No. 1,414,620; May 2.
- Concrete construction, Form for. S. J. Oswald. No. 1,430,108; Sept. 26.
- Concrete construction, Reinforced. W. B. Hough. No. 1,439,737; Dec. 26.
- Concrete construction, Reinforced. P. L. G. Johnston. No. 1,410,923; Mar. 28.
- Concrete construction, Stud for. R. A. Megenity. No. 1,429,683; Sept. 19.
- Concrete-culvert form. H. B. Cox. No. 1,429,021; Sept. 12.
- Concrete floor construction. H. L. Wells. No. 1,430,424; Sept. 26.
- Concrete floor or slab forming means. E. F. Allbright. No. 1,434,242; Oct. 31.
- Concrete floors, Apparatus for constructing. N. F. Ambursen. No. 1,439,281; Dec. 19.
- Concrete floors, Collapsible falsework for. H. J. Baker. No. 1,425,823; Aug. 15.
- Concrete floors, Joint strip for. F. J. Borkenstein. No. 1,429,564; Sept. 19.
- Concrete for road covering. R. Houben. No. 1,411,028; Mar. 28.
- Concrete form. J. W. Harris. No. 1,432,290; Oct. 17.
- Concrete form. J. H. Hilton. No. 1,405,212; Jan. 31.
- Concrete form. W. J. Pedersen. No. 1,407,569; Feb. 21.
- Concrete form for reinforced hollow walls. E. B. Hillman, H. Kimber, and H. Dadisman. No. 1,431,524; Oct. 10.
- Concrete-form support. H. O. Davidson. No. 1,429,412; Sept. 19.
- Concrete forms, Corner clamp for. O. C. Nilson. No. 1,408,021; Feb. 28.
- Concrete forms, Shoring for. E. W. Bowen. No. 1,439,060; Dec. 19.
- Concrete forms, Wire tightener for. C. J. Johnson. No. 1,438,650; Dec. 12.
- Concrete foundations, Means for mounting rails on. J. B. Lott. No. 1,435,074; Nov. 7.
- Concrete ingredients or other substances, Machine for mixing. F. W. Kiddie. No. 1,419,737; June 13.
- Concrete insert. M. E. Chase. No. 1,409,524; Mar. 14.
- Concrete insert. J. K. Fisher. No. 1,405,994; Feb. 7.
- Concrete insert. C. J. O'Brien. No. 1,429,686; Sept. 19.
- Concrete insert. C. C. Tomkinson. No. 1,422,636; July 11.
- Concrete insert. W. E. White. No. 1,410,634; Mar. 28.
- Concrete, Machine for distributing. E. H. Lichtenberg. No. 1,411,217; Mar. 28.
- Concrete-machine mold. C. A. Steward. No. 1,419,699; June 13.
- Concrete, Manufacture of bodies of reinforced. E. Maier. No. 1,434,959; Nov. 7.
- Concrete, Method and means for constructing forms for. R. Trost. No. 1,420,166; June 20.
- Concrete mixer. R. R. Beers. No. 1,405,707; Feb. 7.
- Concrete mixer. G. A. Bonelli. No. 1,437,337; Nov. 28.
- Concrete mixer. T. Byrne, Jr. No. 1,428,941; Sept. 12.
- Concrete mixer. J. W. Heltzel. No. 1,427,955; Sept. 5.
- Concrete mixer. L. Lund. No. 1,439,178; Dec. 19.
- Concrete mixer. N. Remmel. No. 1,440,174; Dec. 26.
- Concrete mixer. J. Stockley. No. 1,421,320; June 27.
- Concrete-mixer loader. V. M. Price. No. 1,424,737; Aug. 1.
- Concrete mixers and the like, Batch meter for. C. E. Foote. No. 1,419,451; June 13.
- Concrete mixers, Lifting crane for. E. H. Lichtenberg. No. 1,402,168; Jan. 3.
- Concrete mixing and distributing apparatus. F. L. Norton. No. 1,410,030; Mar. 21.
- Concrete-mixing machine. G. Jaeger. No. 1,414,648; May 2.
- Concrete mold. C. A. Barr. No. 1,408,246; Feb. 28.
- Concrete mold. C. F. Bond. No. 1,407,246; Feb. 21.
- Concrete mold. L. Harris. No. 1,426,866; Aug. 22.
- Concrete partition. F. Lichtenberg and M. McCarthy. No. 1,406,989; Feb. 21.
- Concrete pavement, Machine for laying reinforcing for. P. A. Koehring. No. 1,424,169; Aug. 1.
- Concrete pavement, Machine for making. J. W. Heltzel. No. 1,427,956; Sept. 5.
- Concrete-paving machines, Distributing and leveling device for. J. P. Faber. No. 1,404,747; Jan. 31.
- Concrete pile and wall panel. L. B. Langworthy. No. 1,430,820; Oct. 3.
- Concrete-pipe machine. G. C. Martin. No. 1,428,044; Sept. 5.
- Concrete-pipe machine. J. G. Zwicker. No. 1,418,859; June 6.
- Concrete pipe or culvert. G. Cuozzo. No. 1,413,008; Apr. 18.
- Concrete pipe, Reinforced-. W. S. Hewett. No. 1,413,405; Apr. 18.
- Concrete pipes, Apparatus for forming. D. N. Trullinger and L. A. Granger. No. 1,422,150; July 11.
- Concrete pipes, Form for. F. H. Weaver. No. 1,423,284; July 18.
- Concrete pipes, Machine for ramming oval. R. Last. No. 1,410,021; Mar. 21.
- Concrete pole, Reinforced-. J. Payne. No. 1,420,571; June 20.
- Concrete poles, Apparatus for making. J. J. Gruenfeld, Jr. No. 1,403,683; Jan. 17.
- Concrete-post mold. J. Darling. No. 1,436,385; Nov. 21.
- Concrete-post mold. E. B. Tyler. No. 1,417,644; May 30.
- Concrete posts, Universal fence-wire attachment for. A. Mohrbacher. No. 1,431,321; Oct. 10.
- Concrete products such as blocks, panels, and structures, Molding of. J. Woolcock. No. 1,423,983; July 25.
- Concrete, Protective covering for waterproofing coating on. W. R. Roof. No. 1,407,772; Feb. 28.
- Concrete railway roadbed. E. Wilson. No. 1,436,847; Nov. 28.
- Concrete-reinforcing bar. M. J. Gerson. No. 1,404,198; Jan. 24.
- Concrete resistant to waters charged with soluble compounds and product thereof, Rendering. B. F. Erdahl. No. 1,415,324; May 9.
- Concrete roads, Construction of. W. F. McGovern. No. 1,440,162; Dec. 26.
- Concrete roof-tile pallet. F. C. Hyten and P. J. Hawkins. No. 1,425,015; Aug. 8.
- Concrete roofing tile, Means for use in the manufacture of. W. T. Cowperthwaite. No. 1,403,940; Jan. 17.
- Concrete slab for the erection of cellular structures. F. G. Lynde. No. 1,425,119; Aug. 8.
- Concrete slab for walls or the like. F. G. Lynde. No. 1,425,118; Aug. 8.
- Concrete slabs, walls, and other structures, Means for the construction of. F. G. Lynde. No. 1,425,117; Aug. 8.
- Concrete structure, Reinforced. W. S. Hewett. No. 1,413,404; Apr. 18.
- Concrete structures, Apparatus for building. E. E. Sands. No. 1,435,337; Nov. 14.
- Concrete structures, Building of. R. Wilson. No. 1,405,650; Feb. 7.
- Concrete structures, Collapsible mold for. H. J. Kestler. No. 1,421,956; July 4.
- Concrete structures, Constructing subaqueous. J. Störe. No. 1,421,857; July 4.
- Concrete structures, Making reinforced. J. T. Simpson. No. 1,428,401; Sept. 5.
- Concrete structures, Metallic reinforcement for. F. M. Barton. No. 1,440,127; Dec. 26.
- Concrete structures, Reinforcement for. J. H. A. Wissenberg. No. 1,405,654; Feb. 7.
- Concrete structures, Reinforcing. J. Di Stasio. No. 1,416,548; May 16.
- Concrete tie. P. C. Ickes. No. 1,410,185; Mar. 21.
- Concrete tie, Reinforced. W. Graham. No. 1,406,454; Feb. 14.
- Concrete-tile construction. S. M. Sampson. No. 1,415,197; May 9.
- Concrete wall. A. M. Cramer. No. 1,421,129; June 27.
- Concrete wall block construction, Hollow. J. M. McCurry. No. 1,417,399; May 23.
- Concrete wall construction, Reinforced-. G. L. Rackle. No. 1,404,647; Jan. 24.
- Concrete-wall core. B. A. Knudson. No. 1,414,288; Apr. 25.
- Concrete-wall form. B. A. Knudson. No. 1,414,287; Apr. 25.
- Concrete wall, Hollow. J. S. Banks. No. 1,421,145; June 27.
- Concrete wall, Reinforced hollow. M. Y. Charles. No. 1,420,521; June 20.
- Concrete walls, Collapsible core for hollow. E. J. Eddy. No. 1,430,439; Sept. 26.
- Concrete walls, Means for constructing hollow. G. J. Engert. No. 1,437,297; Nov. 28.
- Concrete walls, Mold core for monolithic. P. B. Walker, Jr. No. 1,403,823; Jan. 17.
- Concrete wearing surface. W. E. Ficklen. No. 1,432,171; Oct. 17.
- Concrete work, Name stamp for. L. U. Hawkins. No. 1,437,892; Dec. 5.

- Concreting, Air cells for. R. T. Wales. No. 1,403,212; Jan. 10.
- Condensate, Device for removing. H. B. Kingsley. No. 1,413,480; Apr. 18.
- Condensation products, Manufacture of soluble. A. Lüttringhaus and L. Blangey. No. 1,412,949; Apr. 18.
- Condensation receiver and pump. J. Redmond. No. 1,411,585; Apr. 4.
- Condenser. S. G. Barnstead. No. 1,411,150; Mar. 28.
- Condenser. J. Damm. No. 1,402,575; Jan. 3.
- Condenser. R. N. Ehrhart. No. 1,406,356; Feb. 14.
- Condenser. R. N. Ehrhart. No. 1,407,137; Feb. 21.
- Condenser. E. W. Liljegrän. No. 1,434,301; Oct. 31.
- Condenser. F. L. McGahan. No. 1,432,350; Oct. 17.
- Condenser. F. E. Payne. No. 1,427,318; Aug. 29.
- Condenser. M. W. Stoms. Nos. 1,434,458-9; Nov. 7.
- Condenser. J. D. Stone. No. 1,424,786; Aug. 8.
- Condenser. C. A. Wettengel. No. 1,429,214; Sept. 12.
- Condenser, Air-cooled. F. Ljungström. No. 1,435,612; Nov. 14.
- Condenser, Air-cooled or evaporative surface. J. MacLeod. No. 1,427,159; Aug. 29.
- Condenser and cooler. H. E. MacCarny. No. 1,427,611; Aug. 29.
- Condenser and making same. R. T. Staples. No. 1,425,912; Aug. 15.
- Condenser-apron lubricator. T. Astbury. No. 1,416,313; May 16.
- Condenser, Compartment surface. P. A. Bancel. No. 1,406,815; Feb. 14.
- Condenser, Electrolytic. R. D. Mershon. No. 1,437,189; Nov. 28.
- Condenser, Surface. H. M. Graham. No. 1,409,944; Mar. 21.
- Condenser system. J. F. Grace. No. 1,417,515; May 30.
- Condenser, Variable. W. Dubilier. No. 1,429,227; Sept. 19.
- Condenser, Variable. J. Parkin, jr. No. 1,433,224; Oct. 24.
- Condenser, Variable electrostatic. G. F. Johnson. No. 1,420,485; June 20.
- Condensers and rectifiers, Terminal protector for electrolytic. J. Coulson and C. J. Rottmann. No. 1,438,636; Dec. 12.
- Condensers, Apparatus for use in making. W. H. Priess. No. 1,404,793; Jan. 31.
- Condensers, Excitation of electrolytic. R. D. Mershon. Nos. 1,439,525-6; Dec. 19.
- Condensers, Gauge for indicating the efficiency of steam. A. E. L. Scanes and A. W. Clarke. No. 1,406,088; Feb. 7.
- Condensers, Means for increasing the dielectric strength of. W. C. Brinton, Jr. No. 1,414,619; May 2.
- Condensers, Preventing the deposition of scale or sludge from the cooling water in surface steam. A. Halle. No. 1,405,783; Feb. 7.
- Condensing apparatus. R. N. Ehrhart. No. 1,405,821; Feb. 7.
- Condensing apparatus. I. S. Merrell. No. 1,403,804; Jan. 17.
- Condensing apparatus. I. S. Merrell. No. 1,406,055; Feb. 7.
- Condensing apparatus. O. Stalman. No. 1,439,274; Dec. 19.
- Condensing process and apparatus. I. S. Merrell. No. 1,410,492; Mar. 21.
- Condiment. M. M. Osborn. No. 1,405,070; Jan. 31.
- Condiment dispenser or container. C. H. Haeseler. No. 1,423,322; July 18.
- Condiment holder. B. F. Blair. No. 1,417,444; May 23.
- Condiment holder. J. L. and C. O. Medici. No. 1,425,328; Aug. 8.
- Conductor support. S. S. Matthes. No. 1,405,609; Feb. 7.
- Conductor's equipment case. J. A. Haste. No. 1,404,368; Jan. 24.
- Conduit. A. Petersen. No. 1,439,323; Dec. 19.
- Conduit and installing same. W. W. Smythe, Jr. No. 1,403,352; Jan. 10.
- Conduit coupling. J. F. Rambo. No. 1,422,374; July 11.
- Conduit-coupling device. H. G. Knoderer. No. 1,425,781; Aug. 15.
- Conduit fastener. J. M. Fitz Gerald. No. 1,418,370; June 6.
- Conduit fitting, Corrosion-resistant. E. L. Huff. No. 1,428,374; Sept. 5.
- Conduit, Flexible. W. M. Fulton. No. 1,409,697; Mar. 14.
- Conduit for thermotemperature circuits of grain tanks. L. H. Des Isles. No. 1,438,751; Dec. 12.
- Conduit-forming jack. J. E. Marquiss. No. 1,427,964; Sept. 5.
- Conduit, junction box, and outlet box, Combined. A. H. Tashjian. No. 1,437,324; Nov. 28.
- Conduit or cable clamp and bridle ring. J. Karitzky. Nos. 1,419,931-2; June 20.
- Conduit, Pressure. J. E. Moody. No. 1,404,787; Jan. 31.
- Conduit support. G. E. Beck and T. E. Kirkpatrick. No. 1,419,536; June 13.
- Conduits and making same, Insulating tubing for electrical. O. Rey. No. 1,438,858; Dec. 12.
- Conduits, Apparatus for constructing. S. Lake. No. 1,409,732; Mar. 14.
- Conduits, Carton for flexible. C. W. Abbott. No. 1,431,352; Oct. 10.
- Conduits, Joint for electrical. J. C. Herron. No. 1,425,011; Aug. 8.
- Conduits, Method and means for silencing fluid in. W. W. Heroy. No. 1,432,462; Oct. 17.
- Cone holder, Sanitary. W. H. Schmidt. No. 1,435,746; Nov. 14.
- Cone-winding machines, Attachment for. A. A. Johnson. No. 1,424,100; July 25.
- Cones, Automatic feed device for pearling. F. E. Giozza. No. 1,424,638; Aug. 1.
- Confection. C. K. Nelson. No. 1,404,539; Jan. 24.
- Confection and making same, Frozen. L. L. Thuey. No. 1,437,162; Nov. 28.
- Confection-coating machine. V. Matraga. No. 1,420,436; June 20.
- Confection-making apparatus. T. Bosshard. No. 1,419,808; June 13.
- Confection making, Process and apparatus for. R. S. Scott. No. 1,414,528; May 2.
- Confection mold. C. P. Speck. No. 1,421,601; July 4.
- Confections, Making. C. P. Speck. No. 1,421,600; July 4.
- Confections of the coated type, Manufacture of. N. E. Brigham. No. 1,417,446; May 23.
- Confectionery. H. Mock. No. 1,402,004; Jan. 3.
- Confectionery-coating machine. J. Massarella. No. 1,417,086; May 23.
- Confectionery, Dispensing and display holder for. H. D. Foss. No. 1,423,845; July 25.
- Confectionery, Machine for use in the manufacture of. G. R. Baker. No. 1,437,880; Dec. 5.
- Confectionery-making system, Continuous. D. G. Steely. No. 1,432,918; Oct. 24.
- Confetti bomb. J. Kyriazopoulos. No. 1,423,122; July 18.
- Connector. C. A. Deucher. No. 1,403,298; Jan. 10.
- Connecting adjacent members, Means for detachably. H. C. Buhop. No. 1,402,566; Jan. 3.
- Connecting and tightening device. J. R. Reyburn. No. 1,404,319; Jan. 24.
- Connecting bar. H. T. Anderson. No. 1,436,074; Nov. 21.
- Connecting device. H. L. Jones. No. 1,419,112; June 6.
- Connecting device. E. G. Thomas. No. 1,439,203; Dec. 19.
- Connecting ring. E. L. Weed. No. 1,421,876; July 4.
- Connecting rod. H. C. Christian. No. 1,430,944; Oct. 3.
- Connecting rod. F. A. Dreher. No. 1,423,788; July 25.
- Connecting rod. C. B. Drevitson. No. 1,427,788; Sept. 5.
- Connecting rod. J. R. Du Priest. No. 1,417,307; May 23.
- Connecting rod. H. B. Layman. Nos. 1,418,083-6; May 30.
- Connecting rod. J. A. Patterson and E. J. Miller. No. 1,434,143; Oct. 31.
- Connecting rod, Self-aligning. J. E. Crowell. No. 1,409,931; Mar. 21.
- Connecting rod, Self-aligning. J. E. Crowell. No. 1,410,168; Mar. 21.
- Connecting rods, Adjustable bearing for. L. D. Parmley. No. 1,403,346; Jan. 10.
- Connecting rods, Manufacturing sheet-metal. H. B. Layman. No. 1,418,087; May 30.
- Connecting two elements, Means for. J. H. Williams. No. 1,422,158; July 11.
- Connection clamp, Safety combination. F. H. Barney and D. S. Bowers. No. 1,425,164; Aug. 8.
- Connection, Detachable. E. C. Wamelink. No. 1,432,045; Oct. 17.
- Connection terminal. R. Zöllner. No. 1,439,657; Dec. 19.
- Connector. C. E. Myers. No. 1,432,029; Oct. 17.
- Connector. H. R. Saxon. No. 1,426,323; Aug. 15.
- Connector switch. G. A. Yanochowski. No. 1,423,897; July 25.
- Construction material. B. P. Perry. No. 1,438,966; Dec. 19.
- Construction member. C. Dornier. No. 1,419,827; June 13.
- Construction unit. E. Vail. No. 1,432,222; Oct. 17.
- Contact bodies and ignition points, Alloy and preparation of the same for. C. A. Laise. No. 1,418,081; May 30.
- Contact carrier. H. A. Douglas. No. 1,432,844; Oct. 24.
- Contact finger and making same. T. E. Drohan. No. 1,415,320; May 9.
- Contact material, Cleaning. T. L. Briggs. No. 1,429,222; Sept. 19.
- Contact points, Device for grinding. H. J. Poole and S. E. Couch. No. 1,436,436; Nov. 21.
- Contact terminal. F. F. Forshee. No. 1,424,290; Aug. 1.
- Container. G. R. Banton. No. 1,407,688; Feb. 28.
- Container. J. E. Blaim. No. 1,431,561; Oct. 10.
- Container. W. E. Brooks and B. S. Eppes. No. 1,411,475; Apr. 4.
- Container. A. E. Bruns. No. 1,425,236; Aug. 8.
- Container. C. D. Burton. No. 1,415,986; May 16.
- Container. H. L. Carpenter. No. 1,414,861; May 2.
- Container. R. E. Cole. No. 1,411,565; Apr. 4.
- Container. C. H. Crowell. No. 1,430,287; Sept. 26.
- Container. F. W. Edworthy. No. 1,401,969; Jan. 3.
- Container. J. Greene. No. 1,438,487; Dec. 12.
- Container. G. Henderson. No. 1,435,393; Nov. 14.
- Container. J. M. Hotherhall. No. 1,435,394; Nov. 14.
- Container. L. J. Lippmann. No. 1,412,361; Apr. 11.
- Container. H. Miller. No. 1,419,883; June 13.
- Container. E. A. Neiman. No. 1,422,606; July 11.
- Container. L. C. Palmer. No. 1,426,500; Aug. 22.
- Container. W. J. Randolph. No. 1,439,329; Dec. 19.
- Container. W. H. Richman. No. 1,412,966; Apr. 18.
- Container. W. H. Rose. No. 1,409,412; Mar. 14.
- Container. J. J. Shumaker. No. 1,425,908; Aug. 15.
- Container. J. P. Sutcliffe. No. 1,431,850; Oct. 10.
- Container. A. A. Van Orsdale. No. 1,402,692; Jan. 3.

Alphabetical list of inventions—Continued.

- Container. A. van Rensselaer. (Reissue.) No. 1,534,7; May 2.
- Container. R. W. Wilson. No. 1,411,653; Apr. 4.
- Container. P. Zalkind. No. 1,426,439; Aug. 22.
- Container agitating device. E. E. and G. R. Collamer. No. 1,412,774; Apr. 11.
- Container and delivery mechanism. C. D. Rosan. No. 1,421,312; June 27.
- Container and display structure. L. L. Goodman. No. 1,432,457; Oct. 17.
- Container and producing same. J. Peterson. No. 1,411,510; Apr. 4.
- Container and stand. W. B. Simon. No. 1,408,539; Mar. 7.
- Container and support. A. Wineburgh. No. 1,411,894; Apr. 4.
- Container applicator. R. Slee. No. 1,415,413; May 9.
- Container. Armored. P. D. Schenck. No. 1,440,109; Dec. 26.
- Container-arranging apparatus. S. Eberly. No. 1,422,942; July 18.
- Container attachment. G. W. Weyand. No. 1,435,949; Nov. 21.
- Container bodies, Attaching bails to. W. J. Kenny. No. 1,403,169; Jan. 10.
- Container-cap fastener. B. Borland. No. 1,408,857; Mar. 7.
- Container cap, Sanitary. J. A. Brocken. No. 1,413,000; Apr. 18.
- Container, Collapsible. M. I. Hamm. No. 1,409,101; Mar. 7.
- Container, Collapsible. C. Riley. No. 1,437,151; Nov. 28.
- Container, Combination. S. A. Jaroski. No. 1,411,437; Apr. 4.
- Container, Commodity. C. F. Schlosser. No. 1,424,682; Aug. 1.
- Container, Compartmental. E. B. Berkowitz. No. 1,411,833; Apr. 4.
- Container-cover fastener. C. Klossner. No. 1,411,734; Apr. 4.
- Container, Flexible. R. W. Sampson. Nos. 1,433,303-4; Oct. 24.
- Container-forming machine. J. S. Wentworth. No. 1,402,818; Jan. 10.
- Container, Fuel and refuse. W. H. Franklin. No. 1,411,336; Apr. 4.
- Container, Lading. A. H. Smith. No. 1,407,595; Feb. 21.
- Container, Liquid. J. Gorinac. No. 1,404,021; Jan. 17.
- Container, Merchandise-package. W. A. Evalenko. No. 1,440,215; Dec. 26.
- Container, Metal. A. B. A. Fich. No. 1,427,152; Aug. 29.
- Container, Packing. E. B. Weston. No. 1,432,934; Oct. 24.
- Container, Portable. W. L. Affelder. No. 1,414,392; May 2.
- Container, Portable. I. Schneider. No. 1,437,023; Nov. 28.
- Container, Sanitary liner. D. F. Curtin. No. 1,437,497; Dec. 5.
- Container-sealing means. U. Gonnella. No. 1,404,113; Jan. 17.
- Container, Single-delivery. J. Davanzo. No. 1,409,932; Mar. 21.
- Container structure. J. S. Stokes. Nos. 1,425,713-14; Aug. 15.
- Container vent. A. Schilling. No. 1,428,399; Sept. 5.
- Container with removable locking cover. G. H. Schwarz and M. Vintscher. No. 1,423,157; July 18.
- Containers, Apparatus for sealing. N. P. Bach. No. 1,423,591; July 25.
- Containers, Closure disk for. W. L. Wright. No. 1,403,532; Jan. 17.
- Containers, Closure for hypodermic-solution. J. F. Biehn. No. 1,413,703; Apr. 25.
- Containers, Detachable handle for. J. Bachrik. No. 1,406,811; Feb. 14.
- Containers, Device for operating on. J. L. Ferguson. No. 1,423,098; July 18.
- Containers, Fabricating paper. A. Moore. No. 1,413,759; Apr. 25.
- Containers, Forming sealing members for. T. L. Taliaferro. No. 1,427,134; Aug. 29.
- Containers, Hermetic seal for. T. L. Taliaferro. No. 1,427,133; Aug. 29.
- Containers, Holder for. H. M. Smith. No. 1,425,707; Aug. 15.
- Containers, Interlocking joint for. C. E. Scott. No. 1,439,450; Dec. 19.
- Containers, Machine for crushing metal. G. K. Monroe. No. 1,402,433; Jan. 3.
- Containers, Machine for securing screw caps to. C. R. Crosby. No. 1,439,070; Dec. 19.
- Containers, Machine for the manufacture of vacuum-wall. C. A. Rohland. No. 1,436,197; Nov. 21.
- Containers, Making cast. J. G. Lehman. No. 1,435,401; Nov. 14.
- Containers, Means for manipulating collapsible tubular. M. Maer. No. 1,417,271; May 23.
- Containers, Method and apparatus for sealing. G. Ramsey. No. 1,405,738; Feb. 7.
- Containers, Pouring spout for. J. M. Hothersall. No. 1,430,552; Oct. 3.
- Containers, Removable cover for. A. Schneider. Nos. 1,403,571-2; Jan. 17.
- Containers, Sealing. F. Westerbeck. No. 1,418,114; May 30.
- Containers, specially those for food, Air-tightly sealing composition for metal. J. H. Mackenzie. No. 1,422,114; July 11.
- Containers, such as furnaces, Tilting mechanism for. J. R. Wyatt. No. 1,430,714; Oct. 3.
- Containers, Top or closure for. H. W. Jones. No. 1,431,911; Oct. 10.
- Containers, Valve device for vacuum. J. E. Thebaud. No. 1,409,041; Mar. 7.
- Continuous press. E. T. Meakin. No. 1,421,282; June 27.
- Control apparatus. H. L. Beach. No. 1,406,333; Feb. 14.
- Control apparatus. H. A. Benedict and E. M. Moller. Nos. 1,436,333-4; Nov. 21.
- Control apparatus. L. W. Chubb. No. 1,409,670; Mar. 14.
- Control apparatus. E. R. Evans. No. 1,416,804; May 23.
- Control apparatus. P. L. Mardis. No. 1,414,431; May 2.
- Control apparatus. J. S. McWhirter. No. 1,433,734; Oct. 31.
- Control apparatus. H. R. Meyer. No. 1,416,047; May 16.
- Control apparatus, Machine-. J. C. Thom. No. 1,424,325; Control apparatus, Mounting of. H. R. Meyer. No. 1,416,046; May 16.
- Control device. R. Z. Tyler. No. 1,402,549; Jan. 3.
- Control device for spring-mounted members. M. Birkigt. No. 1,437,220; Nov. 28.
- Control mechanism. M. H. Sherbondy. No. 1,475,200; May 9.
- Control mechanism. Graf A. von Soden-Fraunhofen. No. 1,428,460; Sept. 5.
- Control mechanism, Automatic. W. H. McGee, and R. S. Berry. No. 1,406,405; Feb. 14.
- Control mechanism, Automatic. G. W. Woodward. No. 1,428,199; Sept. 5.
- Control mechanism, Remote-. C. F. Hopewell. No. 1,424,410; Aug. 1.
- Control, Multiple mechanism. L. R. Buckendale. No. 1,425,316; Aug. 8.
- Control system. B. O. Austin. No. 1,427,342; Aug. 29.
- Control system. E. H. Bristol. No. 1,405,181; Jan. 31.
- Control system. W. G. Brooks and L. G. Riley. No. 1,427,352; Aug. 29.
- Control system. A. H. Candee. Nos. 1,427,355-6; Aug. 29.
- Control system. A. H. Candee. No. 1,430,534; Oct. 3.
- Control system. A. H. Candee. No. 1,435,207; Nov. 14.
- Control system. C. B. Conely. No. 1,424,003; July 25.
- Control system. E. E. De Camp. No. 1,421,180; June 27.
- Control system. A. A. Gazda. No. 1,414,403; May 2.
- Control system. C. T. Guildford. No. 1,412,518; Apr. 11.
- Control system. F. D. Hallock. No. 1,431,948; Oct. 17.
- Control system. A. L. Harvey. No. 1,412,522; Apr. 11.
- Control system. A. L. Harvey. Nos. 1,425,646-7; Aug. 15.
- Control system. A. L. Harvey. No. 1,435,230; Nov. 14.
- Control system. R. E. Hellmund. No. 1,421,229; June 27.
- Control system. D. C. Hershberger. No. 1,437,104; Nov. 28.
- Control system. H. D. James. Nos. 1,421,242-4; June 27.
- Control system. H. H. Johnston. No. 1,412,528; Apr. 11.
- Control system. H. H. Johnston. No. 1,435,241; Nov. 14.
- Control system. E. S. Lammers, Jr. No. 1,411,040-43; Mar. 28.
- Control system. E. S. Lammers, Jr. No. 1,421,261; June 27.
- Control system. T. J. Midgley. No. 1,435,132; Nov. 7.
- Control system. H. D. Murdock. No. 1,437,068; Nov. 28.
- Control system. H. F. O'Brien. No. 1,437,070; Nov. 28.
- Control system. L. G. Riley. No. 1,435,257; Nov. 14.
- Control system. K. A. Simmon. No. 1,435,262; Nov. 14.
- Control system. K. A. Simmon. No. 1,431,986; Oct. 17.
- Control system. N. W. Storer. No. 1,412,545; Apr. 11.
- Control system. H. E. Warren. No. 1,420,896; June 27.
- Control system. A. D. Webster. No. 1,438,624; Dec. 12.
- Control system and apparatus. H. A. Benedict and E. M. Moller. (Reissue.) No. 15,485; Nov. 7.
- Control system and apparatus. E. M. Bouton. No. 1,421,157; June 27.
- Control system and apparatus. H. H. Johnston. No. 1,437,107; Nov. 28.
- Control system and switch mechanism therefor. R. E. De Camp. No. 1,421,179; June 27.
- Control system, Motor-. E. S. Lammers, Jr. No. 1,417,750; May 30.
- Control, System of. R. E. Hellmund. No. 1,416,024; May 16.
- Control, System of. R. E. Hellmund. Nos. 1,417,733-4; May 30.
- Control, System of. L. J. Hibbard. No. 1,416,026; May 16.
- Control, System of. G. H. F. Holy. No. 1,430,549; Oct. 3.
- Control, System of. H. H. Johnston. No. 1,416,033; May 16.
- Control system, Pneumatic. J. H. Langley. No. 1,428,643; Sept. 12.
- Control system, Remote-. W. H. Bristol and M. J. Johnson. No. 1,431,627; Oct. 10.
- Control, System of. K. A. Simmon. No. 1,416,076; May 16.
- Control, System of. N. W. Storer. No. 1,403,355; Jan. 10.
- Controller. J. M. Brown. No. 1,421,160; June 27.

- Controller. H. D. James. No. 1,406,389; Feb. 14.
 Controller and switch lock, Combined. T. G. Stiles. No. 1,405,693; Feb. 7.
 Controller check. F. E. Ward. No. 1,436,328; Nov. 21.
 Controller, Sound-operated circuit. C. Berger. No. 1,405,708; Feb. 7.
 Controller, Step-by-step-movement. J. E. Plew. No. 1,436,821; Nov. 28.
 Controlling and regulating apparatus and system. F. W. Meyer. No. 1,410,702; Mar. 28.
 Controlling and regulating apparatus and system. F. W. Meyer. No. 1,420,858; June 27.
 Controlling apparatus. G. A. Knaak. No. 1,416,092; May 16.
 Controlling apparatus. A. Roesch. No. 1,430,852; Oct. 3.
 Controlling device. A. R. Cooper. No. 1,432,537; Oct. 17.
 Controlling device. C. A. Humphreys. No. 1,428,375; Sept. 5.
 Controlling device. H. A. Troup. No. 1,426,686; Aug. 22.
 Controlling mechanism. L. A. Lang. No. 1,414,654; May 2.
 Controlling mechanism. L. B. Swift. No. 1,420,348; June 20.
 Controlling system. L. De Markus. No. 1,430,290; Sept. 26.
 Converter hood. C. Van Amburgh. No. 1,417,588; May 30.
 Converter, Mechanical. D. C. Davis. No. 1,404,838; Jan. 31.
 Converter plant. A. G. McGregor. No. 1,417,538; May 30.
 Convertible chair. B. C. Bartlebaugh. No. 1,415,767; May 9.
 Convertible chair. H. C. Bunnell. No. 1,423,995; July 25.
 Convertible self-cleaning rake. C. Moore. No. 1,436,189; Nov. 21.
 Conveyance. I. Lincoln. No. 1,439,008; Dec. 19.
 Conveyance, Passenger. J. P. Engel. No. 1,432,681; Oct. 17.
 Conveyor. L. A. Aspinwall. No. 1,408,969; Mar. 7.
 Conveyor. J. L. Ferguson. No. 1,423,095; July 18.
 Conveyor. H. J. Fischer. No. 1,415,869; May 16.
 Conveyor. W. Geist. No. 1,404,692; Jan. 24.
 Conveyor. W. Geist. No. 1,433,366; Oct. 24.
 Conveyor. G. Glass. No. 1,426,179; Aug. 15.
 Conveyor. J. Habbart. No. 1,438,914; Dec. 12.
 Conveyor. F. J. Huebsch. No. 1,423,234; Sept. 5.
 Conveyor. J. F. Joy. No. 1,405,419; Feb. 7.
 Conveyor. H. A. Lane and P. G. Lang, jr. No. 1,436,508; Nov. 21.
 Conveyor. R. H. Lansing. No. 1,425,988; Aug. 15.
 Conveyor. W. H. Lieber. No. 1,404,697; Jan. 24.
 Conveyor. W. H. Lieber. No. 1,433,390; Oct. 24.
 Conveyor. J. E. McBride. No. 1,418,590; June 6.
 Conveyor. M. H. Pade. No. 1,415,688; May 9.
 Conveyor. R. Peale. No. 1,433,906; Oct. 31.
 Conveyor. B. W. Quick. No. 1,427,325; Aug. 29.
 Conveyor. J. Raymond, Jr. No. 1,402,251; Jan. 3.
 Conveyor. A. G. Schwinger. No. 1,427,553; Aug. 29.
 Conveyor. A. L. Shaw. No. 1,422,002; July 4.
 Conveyor. F. L. Stuart. No. 1,403,921; Jan. 17.
 Conveyor. F. L. Stuart. No. 1,422,492; July 11.
 Conveyor. F. R. Taisey. No. 1,437,784; Dec. 5.
 Conveyor. E. A. Towne. No. 1,428,721; Sept. 12.
 Conveyor and mold separator. W. E. Simpson. No. 1,424,947; Aug. 8.
 Conveyor and the like. T. E. Batty. No. 1,413,956; Apr. 25.
 Conveyor, Apron. G. E. Mellin. No. 1,432,076; Oct. 17.
 Conveyor apparatus, Pneumatic. G. Bernert. No. 1,420,015; June 20.
 Conveyor, Automatic measuring metal. C. E. Hopkins. No. 1,433,278; Oct. 24.
 Conveyor, Box. F. Stebler. No. 1,430,766; Oct. 3.
 Conveyor-chain cleat. C. R. Law. No. 1,439,967; Dec. 26.
 Conveyor cleat. F. M. Robbins and J. S. Hartley. No. 1,427,229; Aug. 29.
 Conveyor dispensing system. T. R. Henderson. No. 1,411,432; Apr. 4.
 Conveyor drying apparatus. G. D. Harris. No. 1,405,781; Feb. 7.
 Conveyor, Fluid-current. L. E. Allyn. No. 1,439,722; Dec. 26.
 Conveyor for sheet material. J. Plonka. No. 1,432,086; Oct. 17.
 Conveyor, Garment. L. B. H. and W. L. Bixler. No. 1,420,907; June 27.
 Conveyor, Gravity. C. H. Lister. No. 1,425,599; Aug. 15.
 Conveyor, Jointless woven-wire belt. H. R. Harding. No. 1,438,825; Dec. 12.
 Conveyor loader. A. B. Holley. No. 1,408,299; Feb. 28.
 Conveyor, Leer. M. A. Kendall. No. 1,432,341; Oct. 17.
 Conveyor paddle. G. Komarek. No. 1,411,038; Mar. 28.
 Conveyor, Pneumatic. J. A. Gasteiger. No. 1,417,052; May 23.
 Conveyor, Pneumatic flexible spiral. F. James. No. 1,412,285; Apr. 11.
 Conveyor roller. P. C. Wego. No. 1,425,561; Aug. 15.
 Conveyor rollers, Cast-metal-end. R. S. Logan. No. 1,418,152; May 30.
 Conveyor, Sectional. L. G. Zesbaugh. No. 1,427,890; Sept. 5.
 Conveyor system. B. F. Weber and F. E. Woodford. No. 1,402,558; Jan. 3.
 Conveyers, Controller for intersecting. L. G. Tingwall and A. J. Johnson. No. 1,425,556; Aug. 15.
 Conveyers, Converger for. L. G. Tingwall and A. J. Johnson. No. 1,425,557; Aug. 15.
 Conveyers, Dumping mechanism for. P. B. Streich. No. 1,427,653; Aug. 29.
 Conveyers, Heating accessory for sheet. J. E. Doyle. No. 1,402,151; Jan. 3.
 Conveyers, Reciprocating pan. G. C. Illingworth. No. 1,422,270; July 11.
 Conveyers, Safety device for. G. John. No. 1,430,906; Oct. 3.
 Conveyers, Safety device for endless. A. M. Burns. No. 1,437,718; Dec. 5.
 Conveyers, Transfer drum for. H. E. Kantner. No. 1,424,249; Aug. 1.
 Conveyers, Work holder for endless. E. K. Van Buskirk. No. 1,418,185; May 30.
 Conveying and delivering material, Apparatus for. D. Fraser, S. Shafer, Jr., and C. W. Levalley. No. 1,422,687; July 11.
 Conveying apparatus. H. J. Buck. No. 1,407,923; Feb. 28.
 Conveying apparatus. C. Fredrickson. No. 1,404,591; Jan. 24.
 Conveying apparatus. W. L. Jones. No. 1,425,861; Aug. 15.
 Conveying apparatus. L. E. Laurent and J. C. Patterson. No. 1,438,183; Dec. 12.
 Conveying apparatus. H. C. Moen and G. H. Benson. No. 1,415,892; May 16.
 Conveying apparatus. F. E. Schwalb. No. 1,427,860; Sept. 5.
 Conveying apparatus. B. C. Skinner. No. 1,414,674; May 2.
 Conveying apparatus. G. C. Videtto. No. 1,426,691; Aug. 22.
 Conveying articles, Pneumatic mechanism for. E. E. Lawrence and K. D. Loose. No. 1,413,743; Apr. 25.
 Conveying elevator, Unistrand. J. W. Brown. No. 1,439,141; Dec. 19.
 Conveying machine. F. K. Singer. No. 1,414,220; Apr. 25.
 Conveying mechanism. F. T. Taylor. No. 1,434,859; Nov. 7.
 Conveying mechanism, Controller for. H. S. Hendricks. No. 1,438,112; Dec. 5.
 Conveying structure. T. S. Watson. No. 1,427,989; Sept. 5.
 Conveying structure. T. S. Watson. No. 1,438,151; Dec. 5.
 Conveying structures, Running gear for. T. S. Watson. No. 1,427,990; Sept. 5.
 Conveying system for the transport of materials, Overhead. J. P. Roe. No. 1,407,673; Feb. 21.
 Conveyor apparatus. T. Brady. No. 1,435,048; Nov. 7.
 Conveyor, Brick. J. Siewiorek. No. 1,407,173; Feb. 21.
 Conveyors, Ratchet drive for. E. C. Smith. No. 1,413,498; Apr. 18.
 Cooker. J. Donges. No. 1,433,501; Oct. 24.
 Cooker. J. F. Geisendorfer. No. 1,419,670; June 13.
 Cooker. H. Hull. No. 1,421,480; July 4.
 Cooker. R. Kania. No. 1,418,378; June 6.
 Cooker. H. O. Larson. No. 1,412,360; Apr. 11.
 Cooker. R. J. McBrien. No. 1,420,562; June 20.
 Cooker. S. McCulloch. No. 1,424,500; Aug. 1.
 Cooker. L. D. Ricker. No. 1,438,137; Dec. 5.
 Cooker. C. O. Smith. No. 1,411,811; Apr. 4.
 Cooker and boiler. W. A. Penrod. No. 1,422,472; July 11.
 Cooker, Continuous pressure. R. L. Hunter. No. 1,419,139; June 13.
 Cooker, cooler, and the like. A. R. Thompson. No. 1,402,193; Jan. 3.
 Cooker, Cotton-seed-meal. O. Sheppard, jr. No. 1,433,746; Oct. 31.
 Cooker, Egg. H. C. Jensen. No. 1,433,824; Oct. 31.
 Cooker, Electric. G. H. Bindon. No. 1,428,825; Sept. 12.
 Cooker, Electric fireless. W. Campbell. No. 1,416,263; May 16.
 Cooker, Electric fireless. P. J. Townsend. No. 1,461,527; May 16.
 Cooker, Electric steam-pressure. W. A. Duncan. No. 1,422,348; July 11.
 Cooker, Electrically-heated fireless. R. J. Patterson. No. 1,405,624; Feb. 7.
 Cooker, Engine-exhaust. C. E. Pendleton. No. 1,411,458; Apr. 4.
 Cooker, Fireless. J. H. Reichart. No. 1,415,049; May 9.
 Cooker lock, Pressure. J. H. Jacobs. No. 1,439,000; Dec. 19.
 Cooker, Meal. M. W. Faherty. No. 1,431,107; Oct. 3.
 Cooker, Pressure. A. R. Thompson. (Reissue.) No. 1,430,532; Oct. 3.
 Cooker, Steam. H. S. Brown. No. 1,430,532; Oct. 3.
 Cookers, Brick for fireless. E. Z. Stowell. No. 1,412,717; Apr. 11.
 Cookers, Controlling device for. W. B. Ware. No. 1,407,965; Feb. 28.
 Cookers, Door suspension for steam. C. C. Banks. No. 1,436,427; Nov. 21.
 Cookers, Indicating mechanism for rotary helical. N. Nielsen. No. 1,406,213; Feb. 14.
 Cooking and baking, Diffused-heat-radiation chamber for home. D. Guelbaum. No. 1,411,274; Apr. 4.
 Cooking apparatus. W. Davies. No. 1,438,223; Dec. 12.
 Cooking apparatus. C. H. Sherman and F. E. Morris. No. 1,414,713; May 2.
 Cooking, Apparatus for high-temperature. M. G. Martin. No. 1,404,456; Jan. 24.

Alphabetical list of inventions—Continued.

- Cooking apparatus, Seed-. J. W. Stevens. No. 1,411,591; Apr. 4.
- Cooking device. E. M. Snyder. No. 1,438,792; Dec. 12.
- Cooking device, Electrically-heated. J. F. Newsom. No. 1,437,005; Nov. 28.
- Cooking kit, Camp. M. Grotter. No. 1,411,624; Apr. 4.
- Cooking or heating vessel, Electric. C. H. Luath. No. 1,415,456; May 9.
- Cooking retort. F. B. Donnellan. No. 1,426,050; Aug. 15.
- Cooking utensil. J. C. Bell. No. 1,432,950; Oct. 24.
- Cooking utensil. M. J. Boehl. No. 1,408,256; Feb. 23.
- Cooking utensil. N. P. Linn. No. 1,436,318; Nov. 21.
- Cooking utensil. W. J. Murphy. No. 1,423,961; July 25.
- Cooking utensil. A. L. Shankland. No. 1,431,696; Oct. 10.
- Cooking-utensil basket. A. and S. Le Duc. No. 1,413,744; Apr. 25.
- Cooking utensil, Electrical. G. F. Wells. No. 1,437,122; Nov. 28.
- Cooking utensil, Electrically-heated. H. Kruesheld. No. 1,417,074; May 23.
- Cooking utensils, Detachable handle for. T. O. Dugger. No. 1,406,826; Feb. 14.
- Cooking utensils, Device for supporting. F. W. Cantleberry. No. 1,414,771; May 2.
- Cooking utensils, False bottom for. J. E. Patterson. No. 1,434,262; Oct. 31.
- Cooking vessels, Ventilating knob for. M. F. Dean. No. 1,422,935; July 18.
- Cooler. See—
- Air cooler. Journal-box cooler.
- Automatic dispensing wa- Milk cooler.
- ter cooler. Sirup cooler.
- Chocolate-candy cooler. Water cooler.
- Cooler. D. Brown. No. 1,410,365; Mar. 21.
- Cooler and water filter. O. P. Barnes. No. 1,432,522; Oct. 17.
- Cooler, Milk. C. K. Hodge. No. 1,431,400; Oct. 10.
- Cooling and freezing of fish and the like, Apparatus for. W. B. Hardy and J. J. Pique. No. 1,422,570; July 11.
- Cooling apparatus. W. S. Adams. No. 1,425,739; Aug. 15.
- Cooling apparatus. W. E. Prescott. No. 1,427,018; Aug. 22.
- Cooling bread and similar operations, Apparatus for. G. B. Eggert. No. 1,430,160; Sept. 26.
- Cooling device, Milk-. D. A. Cook. No. 1,427,443; Aug. 29.
- Cooling, heating, and ventilating apparatus. J. Bird. No. 1,409,520; Mar. 14.
- Cooling or refrigerating apparatus. C. L. and M. C. Rogers and W. W. Brown. No. 1,414,209; Apr. 25.
- Cooling system. H. H. Boyce. No. 1,406,922; Feb. 14.
- Cooling system. J. F. Peters. No. 1,424,259; Aug. 1.
- Cooling table. M. Rosenkranz. No. 1,407,169; Feb. 21.
- Coop and feeding park therefor. R. B. Ulom. No. 1,416,531; May 16.
- Coop and trap, Combined. F. Kovatch. No. 1,404,153; Jan. 17.
- Coop, Chicken. J. E. Risty. No. 1,415,397; May 9.
- Coop, Chicken. I. Vanderbeck. No. 1,429,704; Sept. 19.
- Coop, Chicken. N. A. Webster. No. 1,426,933; Aug. 22.
- Coop, Child's. J. Gabriel. No. 1,429,335; Sept. 19.
- Coop, Collapsible. C. A. Lang. No. 1,431,745; Oct. 10.
- Coop, Collapsible. G. C. Powell. No. 1,437,676; Dec. 5.
- Coop, Poultry. H. G. Collis. No. 1,413,458; Apr. 18.
- Coop, Shipping. C. T. Sherman, sr. No. 1,424,218; Aug. 1.
- Coordinated regulating device. L. F. Hoffman. No. 1,412,805; Apr. 11.
- Cop or bobbin holder. E. Adell and C. A. Brink. No. 1,423,824; July 25.
- Cop mountings, Moistening means for. W. A. Houck. No. 1,419,734; June 13.
- Copper and like ores, Leaching. H. B. Slater. No. 1,438,869; Dec. 12.
- Copper, Apparatus for producing. J. J. Dawson. No. 1,403,235; Jan. 10.
- Copper-coating furnace. O. A. Kirkman. No. 1,413,034; Apr. 18.
- Copper, Coloring metallic. F. Laist, F. F. Frick, E. Klepetko, and L. P. Davidson. No. 1,428,170; Sept. 5.
- Copper, Extraction and recovery of. N. V. Hybinette. No. 1,407,420; Feb. 21.
- Copper, Freeing metals from. M. O. Sem. No. 1,425,701; Aug. 15.
- Copper from lyes resulting from the treatment of cupiferous pyrites, Obtaining the. H. P. Soulie-Cottineau. No. 1,431,130; Oct. 3.
- Copper from slag in the reverberatory furnaces, Process and apparatus for extracting. P. P. Butler and H. H. Stout. No. 1,416,262; May 16.
- Copper from solutions, Process of and apparatus for precipitating. F. S. Adams. No. 1,430,140; Sept. 26.
- Copper, Making phosphor. A. Mihalic. No. 1,435,649; Nov. 14.
- Copper, Method of and apparatus for recovering. H. M. Wilcox. No. 1,416,147; May 16.
- Copper-oxide depolarizer, High-voltage. R. C. Benner and H. F. French. No. 1,438,086; Dec. 5.
- Copper sheeting, Making a lead-coated. A. Klein. No. 1,437,316; Nov. 28.
- Copper, Soldering. R. D. Heacox. No. 1,434,289; Oct. 31.
- Coppers, Heater for soldering. C. H. Klein. No. 1,415,098; May 9.
- Copy fastener. W. C. Lineaweaver. No. 1,425,873; Aug. 15.
- Copyholder. T. H. Bishop. No. 1,428,938; Sept. 12.
- Copyholder. L. A. Mochel. No. 1,417,762; May 30.
- Copyholder. R. M. Searle. No. 1,438,268; Dec. 12.
- Copyholder, Book-holding. T. H. Bishop. No. 1,428,937; Sept. 12.
- Copyholder guide, Graduated. L. P. Brown. No. 1,435,375; Nov. 14.
- Copy-holding device. A. N. Woodruff. No. 1,414,389; May 2.
- Copying apparatus. L. F. Morse. No. 1,420,491; June 20.
- Copying machine. R. Berger. No. 1,412,995; Apr. 18.
- Cord fabric and means for making the same. I. E. Fair. No. 1,405,992; Feb. 7.
- Cord-fabric-impregnating apparatus. I. W. Robertson. No. 1,413,786; Apr. 25.
- Cord-fastening hook. W. L. M. Robidoux. No. 1,419,410; June 13.
- Cord, Nonstretchable. J. H. Hunter. No. 1,405,591; Feb. 7.
- Cord saver and fastener. G. W. Stout. No. 1,413,626; Apr. 25.
- Cord support. C. M. Myers. No. 1,418,960; June 6.
- Cord tip. J. P. Kelly. No. 1,420,632; June 27.
- Cord tip. J. P. Kelly. No. 1,420,657; June 27.
- Cord tip. J. P. Kelly. No. 1,425,384; Aug. 8.
- Cordage hitching device. C. W. Bauer. No. 1,426,537; Aug. 22.
- Cords, Reel structure for extension. E. G. K. Anderson. No. 1,431,083; Oct. 3.
- Core box. D. J. Campbell. No. 1,432,665; Oct. 17.
- Core-box plate. D. J. Campbell. No. 1,432,666; Oct. 17.
- Core, Collapsible. F. D. Mason. No. 1,429,957; Sept. 26.
- Core, Collapsible. H. E. Townsend. No. 1,402,979; Jan. 10.
- Core, Collapsible mold. C. Hutchins. No. 1,431,000; Oct. 3.
- Core, Expandable. A. Huetter. No. 1,404,959; Jan. 31.
- Core, Expandable. A. Huetter. No. 1,439,895; Dec. 26.
- Core, Expandable. H. P. Koenneke and W. F. Miller. No. 1,420,488; June 20.
- Core frame. G. Walther. No. 1,404,250; Jan. 24.
- Core machine. G. W. Combs. No. 1,424,341; Aug. 1.
- Core making. W. A. Smith. No. 1,428,993; Sept. 12.
- Core-making machine. O. Skeppstedt. No. 1,417,577; May 30.
- Core-making machine. F. Zoll. No. 1,427,427; Aug. 29.
- Core-taking device. R. D. Dodds. No. 1,427,268; Aug. 29.
- Core vent and support. C. J. Beck. No. 1,413,566; Apr. 25.
- Core, Vulcanizing. C. L. Bruce and E. Aze. No. 1,408,980; Mar. 7.
- Core-winding machine. W. Shardlow. No. 1,433,242; Oct. 24.
- Cores, Apparatus for drying. H. M. Lane. No. 1,410,580; Mar. 28.
- Cores from molds, Machine for removing. H. Schelhammer. No. 1,432,262; Oct. 17.
- Cores, Machine for building laminated armature. F. C. Nickol. No. 1,426,759; Aug. 22.
- Cores, Machine for sewing covers on. P. Rissmann. No. 1,431,898; Oct. 10.
- Cores, Making corrugated. J. H. Schlafly. No. 1,434,068; Oct. 31.
- Cores, Mechanism for covering. H. J. Boe. No. 1,405,710; Feb. 7.
- Cork-cutting machine. H. G. Monkhorst. No. 1,430,829; Oct. 3.
- Cork-insert machine. J. H. Saris. No. 1,406,689; Feb. 14.
- Cork-making machines, Feeding attachment for crown-. B. Nagy. No. 1,419,583; June 13.
- Cork, Nonremovable. L. Crane. No. 1,416,616; May 16.
- Cork-rod bakers, Carrier for. C. E. McManus. No. 1,409,223; Mar. 14.
- Cork-rod bakers, Locking attachment for. C. E. McManus. No. 1,412,125; Apr. 11.
- Cork-rod-ejector machine. C. E. McManus. No. 1,409,224; Mar. 14.
- Cork substitute and manufacture. E. E. Graham. No. 1,427,682; Aug. 29.
- Cork, Treating. W. E. Co Hagan. No. 1,439,869; Dec. 26.
- Corkscrew, Automatic. J. Chmura. No. 1,421,169; June 27.
- Corn, Apparatus for popping. F. J. Beier. No. 1,431,438; Oct. 10.
- Corn binders, Loader for. N. Bieber. No. 1,426,347; Aug. 22.
- Corn cleaner, Ear-. C. Romans. No. 1,413,617; Apr. 25.
- Corn-cleaning machine, Broom-. J. B. Smith. No. 1,438,192; Dec. 12.
- Corncocks, Composition of matter produced from. P. Gruber and H. C. Bashioum. No. 1,427,378; Aug. 29.
- Corncrib. I. E. Clum. No. 1,426,045; Aug. 15.
- Corncrib-floor mold, Ventilated-. E. L. Page. No. 1,422,371; July 11.
- Corncrib, Ventilated. J. H. Irely. No. 1,438,917; Dec. 12.
- Corncrib ventilator and drier. G. W. Robertson. No. 1,431,046; Oct. 3.
- Corncribs, Stave for cement. H. B. Jones. No. 1,437,424; Dec. 5.
- Corn-cutting machine. E. C. Osgood. No. 1,408,135; Feb. 28.
- Corn drier. E. A. Morgan. No. 1,404,632; Jan. 24.

Alphabetical list of inventions—Continued.

- Corn hook. J. F. Barns. No. 1,403,002; Jan. 10.
 Corn husker. E. Clark. No. 1,410,091; Mar. 21.
 Corn husker. A. C. Helmick. No. 1,413,025; Apr. 18.
 Corn husker. J. Scheman and L. Reinhart. No. 1,431,985; Oct. 17.
 Corn husking and shredding machine. G. A. Lowry. No. 1,408,304; Feb. 28.
 Corn-husking device. F. Martin. No. 1,440,164; Dec. 26.
 Corn-husking device. S. E. and W. W. Morral. No. 1,430,671; Oct. 3.
 Corn-husking hook. A. D. Wagner. No. 1,422,906; July 18.
 Corn-husking machine. A. A. Fuhrodt. No. 1,407,057; Feb. 21.
 Corn-husking machine. B. A. Lake. No. 1,438,383; Dec. 12.
 Corn-husking machine. G. Norgren. No. 1,422,609; July 11.
 Corn-husking machine. C. C. O'Neill and J. J. Hynes. No. 1,419,895; June 13.
 Corn-husking machine. H. L. Smith. No. 1,417,356; May 23.
 Corn implement for picking up ears of. H. L. Westerhaus. No. 1,412,201; Apr. 11.
 Corn implement, Green-. W. Olcott. No. 1,414,372; May 2.
 Corn picker, Power-driven. M. O. Drake. No. 1,430,802; Oct. 3.
 Corn planter. P. I. Garner. No. 1,423,932; July 25.
 Corn-planter attachment. A. C. Kubicek. No. 1,425,867; Aug. 15.
 Corn planter, Wireless. C. J. Arnold. No. 1,420,465; June 20.
 Corn planters, Combination rolling cutter and shoe furrow opener for. L. H. Langland. No. 1,422,454; July 11.
 Corn popper. E. H. Barton. No. 1,402,135; Jan. 3.
 Corn popper. W. D. Labadie. No. 1,430,511; Sept. 26.
 Corn popping and vending machine. W. D. Root. No. 1,436,726; Nov. 28.
 Corn-popping machine. C. W. Mabey. No. 1,436,400; Nov. 21.
 Corn rack. C. R. Marshall. No. 1,409,228; Mar. 14.
 Corn sheller. A. E. Gilman. No. 1,434,606; Nov. 7.
 Corn shellers, Force-feeding attachment for. J. D. Peters. No. 1,435,419; Nov. 14.
 Cornstalk breaker. F. and C. Stiffner. No. 1,435,752; Nov. 14.
 Cornstarch and products therefrom, Manufacture of. A. W. H. Lenders and P. W. Allen. No. 1,417,467; May 23.
 Corn stringer. C. M. Putnam. No. 1,416,752; May 23.
 Corn trimmer. W. B. Fowler. No. 1,436,162; Nov. 21.
 Corn-testing implement, Seed-. G. R. Weller. No. 1,411,823; Apr. 4.
 Corner bead. J. Johnson. No. 1,430,508; Sept. 26.
 Corner brace. W. R. Kropf. No. 1,422,770; July 11.
 Corner lock. W. J. Marvin. No. 1,403,435; Jan. 10.
 Corner-staying metal-edge and like machine. J. W. Na-smith. No. 1,419,344; June 13.
 Correction device. F. C. Hinckley. No. 1,421,472; July 4.
 Corrector, Course. F. M. Kramer. No. 1,405,598; Feb. 7.
 Correspondence device. N. Ottinger. Nos. 1,412,668-9; Apr. 11.
 Corrugating machine. A. Rubin. No. 1,420,060; June 20.
 Corset. S. H. Camp. No. 1,438,942; Dec. 19.
 Corset. R. Freed. No. 1,413,578; Apr. 25.
 Corset. S. J. Newman. No. 1,402,643; Jan. 3.
 Corset. A. Zwiebelson. No. 1,414,245; Apr. 25.
 Corset. A. Zwiebelson. No. 1,415,757; May 9.
 Corset and forming same. H. A. Colley. No. 1,414,114; Apr. 25.
 Corset, Apparel. D. Kops. No. 1,432,470; Oct. 17.
 Corset appliance for ruptures, Adjustable. J. H. Zorn. No. 1,413,649; Apr. 25.
 Corset, Belt. J. Siegel. No. 1,430,121; Sept. 26.
 Corset clasp. G. E. McNamara. No. 1,416,850; May 23.
 Corset for women, Athletic. M. C. Heinzen. No. 1,409,215; Mar. 14.
 Corset measurer. B. C. Smith. No. 1,407,228; Feb. 21.
 Corset, Reducing. C. W. Linscott. No. 1,434,062; Oct. 31.
 Corset stays in place, Holding. J. C. Bell. No. 1,421,121; June 27.
 Corset with abdominal support. E. Boobar. No. 1,427,087; Aug. 29.
 Corsets, Clasp for. S. J. Newman. No. 1,402,642; Jan. 3.
 Corsets, Means for attaching hose supporters to. I. La Montagne. No. 1,406,677; Feb. 14.
 Corundum and making same, Artificial. H. A. Richmond and R. Macdonald, Jr. No. 1,413,785; Apr. 25.
 Costume, garment, or like wearing apparel for bathing, swimming, or life saving. J. S. Drew. No. 1,428,151; Sept. 5.
 Costumer, Illuminated. E. Goodfield. No. 1,439,668; Dec. 19.
 Cot. C. M. Irwin and E. A. Fischer. No. 1,409,380; Mar. 14.
 Cot. L. Johnson. No. 1,427,476; Aug. 29.
 Cot. J. M. Line. No. 1,403,425; Jan. 10.
 Cot and table, Convertible. C. and F. W. Lambie. No. 1,428,642; Sept. 12.
 Cot, Camp. J. Hunter. No. 1,433,457; Oct. 24.
 Cot, Folding. G. Coray. No. 1,413,901; Apr. 25.
 Cot, Folding. R. B. Creasy. No. 1,434,100; Oct. 31.
 Cot, Folding. J. Luppino. No. 1,408,015; Feb. 28.
 Cot, Folding. I. S. Purcell. No. 1,434,962; Nov. 7.
 Cots and other articles, Shoe for the legs of metal. M. J. Wujek. No. 1,420,602; June 20.
 Cotter-key puller. A. B. Sippmann. No. 1,403,919; Jan. 17.
 Cotter pin. J. S. Karsky. No. 1,429,353; Sept. 19.
 Cotter pin. L. F. Thorn. No. 1,408,487; Mar. 7.
 Cotter-pin attachment. A. W. Permento. No. 1,427,696; Aug. 29.
 Cotter-pin extractor. E. F. Ives. No. 1,438,647; Dec. 12.
 Cotter-pin extractor. E. W. Mennie. No. 1,434,557; Nov. 7.
 Cotter-pin puller. M. H. Harter. No. 1,422,201; July 11.
 Cotter-pin puller. O. B. Hopkins and R. L. Forney. No. 1,436,589; Nov. 21.
 Cotter pin, Self-spreading. S. C. Merrick. No. 1,403,090; Jan. 10.
 Cotter pins, Device for manipulating. D. R. Tanner. No. 1,417,868; May 30.
 Cotton and other fibrous material, Regin for. W. E. Collins. No. 1,412,167; Apr. 11.
 Cotton and pea picker sack. V. H. Fairless. No. 1,427,728; Aug. 29.
 Cotton, Art of and device for picking. F. W. Stukenborg. No. 1,402,724; Jan. 3.
 Cotton-baling apparatus. A. B. Little. No. 1,437,530; Dec. 5.
 Cotton bat. W. E. Cochran. No. 1,405,185; Jan. 31.
 Cotton, Bleaching. H. P. Bassett. No. 1,402,040; Jan. 3.
 Cotton-carding engines, Grating for the licker-in of. M. Wehli. No. 1,409,627; Mar. 14.
 Cotton, Carding or straightening the fibers of. D. E. Molloy. No. 1,406,474; Feb. 14.
 Cotton chopper. F. C. Hall. No. 1,422,051; July 4.
 Cotton chopper. J. F. Moreland. No. 1,413,760; Apr. 25.
 Cotton chopper. W. F. Mottier. No. 1,425,035; Aug. 8.
 Cotton chopper. J. T. Odell. No. 1,418,159; May 30.
 Cotton chopper. J. M. Saladin. No. 1,411,383; Apr. 4.
 Cotton chopper. J. M. Wardlaw. No. 1,405,367; Jan. 31.
 Cotton chopper. J. W. Wilson. No. 1,439,046; Dec. 19.
 Cotton chopper and cultivator, Combined. G. Whitaker. No. 1,407,240; Feb. 21.
 Cotton cleaner and separator. C. Hillmann and F. Siems. No. 1,406,559; Feb. 14.
 Cotton-cleaning apparatus. F. B. Williams, B. F. Adams. No. 1,407,504; Feb. 21.
 Cotton cloth, Machine for the production of suede. J. D. Tomlinson. No. 1,411,071; Mar. 28.
 Cotton-combing machine. W. Cordwell and D. Barker. No. 1,430,286; Sept. 26.
 Cotton compress. F. L. White. No. 1,422,014; July 4.
 Cotton, etc., Compress for. N. B. Henry. No. 1,402,358; Jan. 3.
 Cotton condenser and packer. W. C. Allen. No. 1,436,374; Nov. 21.
 Cotton, Conveying and cleaning mechanism for. L. C. Stukenborg. No. 1,417,782; May 30.
 Cotton-crop cleaner. W. Morava. No. 1,409,308; Mar. 14.
 Cotton-crop separator. W. Morava. No. 1,409,307; Mar. 14.
 Cotton extracting and cleaning machine. J. E. Mitchell. No. 1,426,588; Aug. 22.
 Cotton fabric to produce woollike effects, Treating. G. Heberlein. No. 1,439,513; Dec. 19.
 Cotton fabric to produce woollike effects, Treating. G. Heberlein. No. 1,439,518; Dec. 19.
 Cotton fabrics, Production of permanent effects in. G. Heberlein. No. 1,439,512; Dec. 19.
 Cotton fabrics, Production of permanent effects in. G. Heberlein. Nos. 1,439,514-16; Dec. 19.
 Cotton fabrics, Production of permanent effects in. G. Heberlein. Nos. 1,439,520-1; Dec. 19.
 Cotton fiber and making same. E. Heberlein. No. 1,439,517; Dec. 19.
 Cotton gin. W. W. Conway. No. 1,408,343; Feb. 28.
 Cotton gin. J. J. Hanus. No. 1,403,774; Jan. 17.
 Cotton gin. C. F. Simpson. No. 1,406,094; Feb. 7.
 Cotton gin. E. R. Tischer. No. 1,418,106; May 30.
 Cotton gin. J. Wooldridge. No. 1,426,437; Aug. 22.
 Cotton gins, Breast-actuating mechanism for. J. R. Hubbard. No. 1,424,021; July 25.
 Cotton goods with linenlike effect and producing said effect. E. Heberlein. No. 1,439,519; Dec. 19.
 Cotton, Imparting transparent effects to. H. Forster. No. 1,430,163; Sept. 26.
 Cotton machinery. J. L. Hart. No. 1,428,434; Sept. 5.
 Cotton, Mechanism for collecting and condensing. J. C. Garner. No. 1,409,540; Mar. 14.
 Cotton, Method of and apparatus for sampling. W. D. Mallory. No. 1,429,899; Sept. 19.
 Cotton picker. H. W. Taylor. No. 1,423,472; July 18.
 Cotton-picker suction nozzle. L. C. Stukenborg. No. 1,426,326; Aug. 15.
 Cotton pickers, Beater for. A. St. Onge. No. 1,403,975; Jan. 17.
 Cotton picking and handling mechanism. L. C. Stukenborg. No. 1,404,246; Jan. 24.
 Cotton-picking apparatus, Hand. A. T. Shipman. No. 1,402,670; Jan. 3.
 Cotton-picking machines, Attachment for. T. R. Gabel. No. 1,411,568; Apr. 4.
 Cotton-preparing machinery. A. S. Thomas. No. 1,407,500; Feb. 21.
 Cotton press, Double-box. J. M. Peerson. No. 1,428,610; Sept. 12.

Alphabetical list of inventions—Continued.

- Cotton press, Round-bale. H. A. W. Howcott. No. 1,418,441; June 6.
- Cotton presses, Trumper for. N. B. Henry. No. 1,402,357; Jan. 3.
- Cotton-printing machines, Ink-saving device for. O. J. Lauterbach. No. 1,433,385; Oct. 24.
- Cotton sampler. W. C. Pitts and R. H. Haines. No. 1,428,978; Sept. 12.
- Cotton-scraper attachment. G. R. Tacker. No. 1,411,818; Apr. 4.
- Cotton-stalk cutter and insect killer. T. H. Batla and H. J. Holan. No. 1,427,931; Sept. 5.
- Cottonseed meats, Treatment of. C. O. Phillips. No. 1,410,346; Mar. 21.
- Cotton separator. J. C. Garner. No. 1,409,541; Mar. 14.
- Colton separator. G. C. Stacy. No. 1,410,038; Mar. 21.
- Cotton spacer. H. O. Wilkinson. No. 1,402,819; Jan. 10.
- Cotton, Toothed drum for treating. J. C. Garner. No. 1,413,020; Apr. 18.
- Cotton trumper. J. A. Bachman. No. 1,412,824; Apr. 18.
- Cotton trumper, Automatic mechanical. R. B. Strickland. No. 1,433,572; Oct. 31.
- Couch and bed, Combined. G. G. Gilchrist. No. 1,402,414; Jan. 3.
- Couch, Box. J. Avril. No. 1,417,442; May 23.
- Couch, Extension. M. F. Bayer. No. 1,418,055; May 30.
- Couch, Folding. G. F. Sisbower and L. E. Pittoni. No. 1,414,051; Apr. 25.
- Couch or bed, Sliding. A. J. Kreuzkamp. No. 1,413,593; Apr. 25.
- Couch roll. T. A. Cuish, jr. No. 1,428,760; Sept. 12.
- Coumarin, Preparing. C. C. Loomis. No. 1,437,344; Nov. 28.
- Counter. G. H. Beaman. No. 1,436,469; Nov. 21.
- Counter. L. E. Jones. No. 1,423,430; July 18.
- Counter. L. E. La Bombard and M. H. La Bombard. No. 1,409,187; Mar. 14.
- Counter. W. Williamsen. No. 1,426,434; Aug. 22.
- Counter and shank fastening machine. J. H. Pope. No. 1,429,694; Sept. 19.
- Counter attachment. L. B. Allen. No. 1,403,368; Jan. 10.
- Counterbalance, Movable. G. H. Goodell. No. 1,419,372; June 13.
- Counterbore. J. C. Glenzer. No. 1,407,328; Feb. 21.
- Counterboring tool. W. W. Johnson. No. 1,408,947; Mar. 7.
- Counterboring tool. J. H. Smith. No. 1,424,743; Aug. 1.
- Counter-forming machine, Automatic. A. F. Jones. No. 1,421,947; July 4.
- Counter, Magnetic revolution. N. Gray. No. 1,419,253; June 13.
- Counter, Order-filling. F. A. Ferris. No. 1,421,679; July 4.
- Counter, Pick. A. H. Morton. No. 1,409,196; Mar. 14.
- Counter, Power-operated. L. E. La Bombard and M. H. Sidebotham. No. 1,409,188; Mar. 14.
- Counter-resetting mechanism. G. W. Toney. No. 1,431,343; Oct. 10.
- Counter, Revolution. L. Krug. No. 1,425,982; Aug. 15.
- Counter, Revolution. J. W. Parker. No. 1,437,353; Nov. 28.
- Counter, Revolution. C. Stoecklin. No. 1,440,034; Dec. 26.
- Countershaft brake. W. F. Groene. Nos. 1,416,016-17; May 16.
- Countersinking machine. A. J. Coughtry. No. 1,424,988; Aug. 8.
- Counter train. A. C. Wood. No. 1,418,507; June 6.
- Counters, Display attachment for. W. O. Melvin. No. 1,421,806; July 4.
- Counting and indicating mechanism. E. A. Graham. No. 1,439,097; Dec. 19.
- Counting device. I. S. Maturin. No. 1,403,182; Jan. 10.
- Counting device. S. Wolf. No. 1,431,073; Oct. 3.
- Counting machine. C. F. Baldwin. No. 1,409,646; Mar. 14.
- Counting mechanism. C. A. Baldwin. No. 1,414,685; May 2.
- Counting mechanism. G. H. Jackson. No. 1,411,629; Apr. 4.
- Counting mechanism. C. H. Veeder. No. 1,439,773; Dec. 26.
- Conning, stacking, and transferring apparatus, Automatic. F. X. Pfohl. No. 1,412,795; Apr. 11.
- Counter stiffener. M. L. Dodge. No. 1,430,158; Sept. 26.
- Coupling: See—
- Air-line coupling. Electric-wire swivel coupling.
- Automatic car coupling. Electromagnetic coupling.
- Automatic railway-car coupling. Flexible coupling.
- Automatic-release coupling. Flexible pipe coupling.
- Automatic train-pipe coupling. Flexible power coupling.
- Automobile trailing coupling. Floating link coupling.
- Belt coupling. Friction coupling.
- Cable coupling. Friction drive coupling.
- Car coupling. Hose coupling.
- Chain coupling. Inflating coupling.
- Chain-link coupling. Impulse-starter coupling.
- Conduit coupling. Jewelry coupling.
- Detachable coupling. Lubricating coupling.
- Detachable machine coupling. Mast coupling.
- Draft coupling. Mud-chain coupling.
- Pipe coupling.
- Pull-rod coupling.
- Pump coupling.
- Coupling: See—
- Quick-detachable coupling. Structural coupling.
- Radiotelegraph coupling. Tool-handle coupling.
- Radiotelegraphic coupling. Traction coupling.
- Railway coupling. Tractor coupling.
- Releasable coupling. Trailer coupling.
- Rod coupling. Train-pipe coupling.
- Safety tractor coupling. Universal generator coupling.
- Sash-cord coupling. Vehicle coupling.
- Selective coupling. Wagon-reach coupling.
- Shaft coupling.
- Steam-hose coupling.
- Coupling. C. F. Daggett, jr. No. 1,431,290; Oct. 10.
- Coupling. P. Denison. No. 1,426,628; Aug. 22.
- Coupling. F. A. Gibson. No. 1,404,595; Jan. 24.
- Coupling. H. E. Heath. No. 1,437,940; Dec. 5.
- Coupling. W. J. Hollick. No. 1,425,525; Aug. 15.
- Coupling. P. Krüger. No. 1,428,596; Sept. 12.
- Coupling. L. W. Kruse. No. 1,422,991; July 18.
- Coupling. A. Maszczyk. No. 1,425,206; Aug. 8.
- Coupling. F. P. Miller. No. 1,431,830; Oct. 10.
- Coupling. H. Trust and F. M. Ashley. No. 1,427,924; Sept. 5.
- Coupling. T. Weber. No. 1,411,230; Mar. 28.
- Coupling. J. Wilkinson. No. 1,434,759; Nov. 7.
- Coupling. H. L. Wood. No. 1,411,468; Apr. 4.
- Coupling and yoke connection. W. Kelso. No. 1,404,860; Jan. 31.
- Coupling and yoke connection. I. H. Milliken. No. 1,404,878; Jan. 31.
- Coupling and yoke connection. G. P. Ritter. No. 1,404,892; Jan. 31.
- Coupling attachment. W. A. Geiger. No. 1,407,939; Feb. 28.
- Coupling centering and supporting mechanism. A. J. Bazeley. No. 1,440,052; Dec. 26.
- Coupling-centering mechanism. E. George, jr. No. 1,439,733; Dec. 26.
- Coupling-controlling mechanism. E. George, jr. No. 1,439,731; Dec. 26.
- Coupling, Detachable. E. E. Arnold. No. 1,404,260; Jan. 24.
- Coupling device. N. Hansen. No. 1,416,020; May 16.
- Coupling device. J. F. Lamb and G. A. Hume. No. 1,435,482; Nov. 14.
- Coupling device, Flexible. J. J. Serrell. No. 1,435,141; Nov. 7.
- Coupling expander. H. A. Larson. No. 1,418,721; June 6.
- Coupling finishing machines, Tapping tool for. E. P. Bullard, jr. No. 1,436,752; Nov. 28.
- Coupling for flexible shafts, Flexible. G. L. Weatherlow. No. 1,402,981; Jan. 10.
- Coupling for sucker rods. W. D. Giles. No. 1,407,327; Feb. 21.
- Coupling link. R. H. Harte. No. 1,433,133; Oct. 24.
- Coupling mechanism. P. Hansmann. No. 1,413,728; Apr. 25.
- Coupling mechanism. J. Thompson. No. 1,402,912; Jan. 10.
- Coupling-operating mechanism. E. George, jr. No. 1,417,598; May 30.
- Coupling-operating mechanism. E. George, jr. No. 1,439,732; Dec. 26.
- Coupling or connection, Antichattering. M. Moskowitz. No. 1,428,249; Sept. 5.
- Coupling pin, Flexible. J. J. Serrell and A. W. Shepherd. No. 1,404,659; Jan. 24.
- Coupling-release mechanism. W. A. Geiger. No. 1,429,235; Sept. 19.
- Coupling-release mechanism. J. F. O'Connor. No. 1,429,689; Sept. 19.
- Coupling, Selective. L. H. Bullard. No. 1,422,536; July 11.
- Coupling support. E. Larsson. No. 1,401,990; Jan. 3.
- Couplings, Disk for flexible. R. J. Stokes. No. 1,409,611; Mar. 14.
- Couplings, Release rigging for. H. A. Vahe. No. 1,414,606; May 2.
- Coupon advertisement. E. D. Le Roy. No. 1,409,348; Mar. 14.
- Coupon book, Identification. E. H. Sanders. No. 1,407,443; Feb. 21.
- Coupon books and ice picks, Combined holder for. R. H. Garbe. No. 1,407,464; Feb. 21.
- Coupon-cutting device. H. Detjen. No. 1,416,800; May 23.
- Coupon-cutting machine. H. N. Heliman. No. 1,414,128; Apr. 25.
- Cover construction, Detachable. E. L. Condon. No. 1,415,148; May 9.
- Cover fastener. C. H. Belknap. No. 1,409,815; Mar. 14.
- Cover, Meter-box. J. A. Schley. No. 1,430,760; Oct. 3.
- Cover-removing device. U. Kawasaki. No. 1,409,728; Mar. 14.
- Cover sheet, Reinforced. A. V. H. Monroe. No. 1,411,504; Apr. 4.
- Cover support. C. H. Hutton. No. 1,410,571; Mar. 28.
- Cover support. A. F. Zega. No. 1,434,762; Nov. 7.
- Cover support, Balancing. F. C. Aschburner. No. 1,424,550; Aug. 1.
- Cover, Switch-heater. W. T. Lawlor. No. 1,424,656; Aug. 1.

Alphabetical list of inventions—Continued.

- Cover to a casing, Apparatus for applying a. C. Fisher. No. 1,417,155; May 23.
- Covers, Device for raising and supporting. F. A. Spencer. No. 1,420,347; June 20.
- Covers, Joint for hinged. E. B. Nichols and C. W. Carroll. No. 1,408,387; Feb. 28.
- Covered box. A. J. Matter. No. 1,418,090; May 30.
- Covering machine. R. R. Williams. No. 1,419,090; June 6.
- Covering material and forming the same. L. T. Frederick. No. 1,430,541; Oct. 3.
- Coverings, Electric-light attachment for hand. F. Hodous. No. 1,402,609; Jan. 3.
- Cow holder. T. Kotelmach. No. 1,435,399; Nov. 14.
- Cow-tail holder. W. F. Johnson. No. 1,413,587; Apr. 25.
- Cows, Composition of matter for treatment of diseases of. U. R. Calkins. No. 1,404,370; Jan. 24.
- Cowl ventilator. G. J. Hennis. No. 1,412,613; Apr. 11.
- Crab. A. Hoffmann and B. Bomborn. No. 1,423,091; Sept. 5.
- Crab trap. F. Koenig. No. 1,403,171; Jan. 10.
- Cracking apparatus. E. C. Blasdel. No. 1,437,712; Dec. 5.
- Cradle. H. J. Nisle. No. 1,420,134; June 20.
- Cradle, Motor-driven. J. E. Dziedzic. No. 1,439,619; Dec. 19.
- Cradle rocker. R. Shea. No. 1,420,582; June 20.
- Cradle, Self-moving. A. Hudoba. No. 1,428,961; Sept. 12.
- Craft. A. A. Graham. No. 1,409,166; Mar. 14.
- Craft, Controlling system for fluid. H. T. Kraft. No. 1,412,807; Apr. 11.
- Craft navigating a fluid medium, Method of and means for propelling. L. G. Bostedo. No. 1,405,482; Feb. 7.
- Crane. W. Harbinger. No. 1,402,291; Jan. 3.
- Crane. T. M. Nichols. No. 1,434,623; Nov. 7.
- Crane. H. Parker. No. 1,426,764; Aug. 22.
- Crane, Boat. F. R. Zimmerman. No. 1,428,809; Sept. 12.
- Crane, Dock. G. A. Collins. No. 1,436,861; Nov. 28.
- Crane, Gantry. B. F. Fitch. No. 1,437,966; Dec. 5.
- Crane, Hoist. J. Sommer. No. 1,407,005; Feb. 21.
- Crane, Overhead traveling. L. Ennis and A. Jack. No. 1,415,163; May 9.
- Crane, Portable. C. F. Green. No. 1,407,855; Feb. 28.
- Crane, Portable. E. N. Hescocock. No. 1,428,887; Sept. 12.
- Crane, Portable. E. H. Kelley and G. A. Stewart, Jr. No. 1,416,958; May 23.
- Crane, Portable farm. D. Bevan. No. 1,438,292; Dec. 12.
- Crane, Portable floor. R. E. Manley. No. 1,422,459; July 11.
- Crane, Self-propelling traveling. G. Brun. No. 1,408,263; Feb. 28.
- Crane, Traveling. A. Bailly. No. 1,432,378; Oct. 17.
- Crane, Traveling. B. F. Fitch. No. 1,437,967; Dec. 5.
- Cranes and hoists, Reduction gearing for. B. F. Fitch. No. 1,403,598; Jan. 17.
- Cranes and similar structures, Support for traveling. B. F. Fitch. No. 1,409,089; Mar. 7.
- Cranes, Arrangement for hydraulically weighing loads hanging in. C. A. Hanser. No. 1,435,603; Nov. 14.
- Cranes, Distant control for industrial. R. W. Chandler. No. 1,439,945; Dec. 26.
- Crank, Adjustable. J. M. Feeney. No. 1,427,798; Sept. 5.
- Crank aligner. J. F. Teeter. No. 1,439,276; Dec. 19.
- Crank arm. C. H. Fish. No. 1,428,366; Sept. 5.
- Crank cases, Combination magneto contact and oil conductor for engine. R. W. Ransdell. No. 1,429,454; Sept. 19.
- Crank cases, Oil-level-indicating attachment for. A. F. Gillet. No. 1,423,558; July 25.
- Crank handle. H. C. Newcom. No. 1,432,891; Oct. 24.
- Crank handle. H. C. Newcom. No. 1,439,018; Dec. 19.
- Crank holder. M. Thu. No. 1,421,860; July 4.
- Crank holder. H. B. Wilson. No. 1,419,793; June 13.
- Crank holder, Starting. J. O. Peters. No. 1,432,490; Oct. 17.
- Crank-holding attachment. A. Gendron and C. Brière. No. 1,424,894; Aug. 8.
- Crank-pin sleeve. C. C. Bettenhausen. No. 1,418,519; June 6.
- Crank-pin-truing tool. F. H. Smith. No. 1,434,234; Oct. 31.
- Crank, Safety starting. C. Erb. No. 1,430,064; Sept. 26.
- Crank, Self-releasing starting. N. J. F. Somerville. No. 1,438,066; Dec. 5.
- Crank shaft. R. L. Bailey. No. 1,420,905; June 27.
- Crank-shaft-adjusting means. H. L. Whitley. No. 1,427,043; Aug. 22.
- Crank shaft, Built-up. F. A. Jimerson. No. 1,428,847; Sept. 12.
- Crank shaft, Built-up. F. W. Parsons and F. A. Jimerson. Nos. 1,431,415-16; Oct. 10.
- Crank-shaft construction. C. M. Billings. No. 1,412,604; Apr. 11.
- Crank-shaft-truing device. A. M. Cook and S. Mower. No. 1,408,078; Feb. 28.
- Crank shafts and the like, Method and apparatus for balancing. C. L. Wilber. No. 1,428,620; Sept. 12.
- Crank shafts, Means for silencing. C. H. Wills. No. 1,430,344; Sept. 26.
- Crank shafts, Tool for truing up. K. R. Peters. No. 1,406,756; Feb. 14.
- Crank shafts, Truing apparatus for connecting rods of. G. Meyer and A. Haacke. No. 1,404,782; Jan. 31.
- Crank turner. F. B. Cockburn and E. S. Bird. No. 1,435,631; Nov. 14.
- Crate. M. Burris. No. 1,436,148; Nov. 21.
- Crate. J. Cobb. No. 1,427,193; Aug. 29.
- Crate. F. G. Hirst. No. 1,437,181; Nov. 28.
- Crate. J. Lanzo. No. 1,431,312; Oct. 10.
- Crate. T. F. Loughran. No. 1,412,694; Apr. 11.
- Crate. H. G. Orth. No. 1,417,555; May 30.
- Crate and box. J. A. Waller. No. 1,436,066; Nov. 21.
- Crate and holder, Hog. E. Novak. No. 1,436,897; Nov. 28.
- Crate, Berry. A. N. Judd. No. 1,431,813; Oct. 10.
- Crate, Bottle. H. C. Peterman. No. 1,439,638; Dec. 19.
- Crate, Bottle. T. V. Thomall. No. 1,411,815; Apr. 4.
- Crate, Collapsible. R. L. Forner. No. 1,436,389; Nov. 21.
- Crate, Collapsible. G. Geraci. No. 1,432,454; Oct. 17.
- Crate, Collapsible. H. D. Hammond, J. W. Achelpohl, and A. Leslie. No. 1,425,587; Aug. 15.
- Crate, Collapsible. E. E. Sutherland. No. 1,422,797; July 11.
- Crate, Collapsible. A. Winter. No. 1,416,150; May 16.
- Crate, Collapsible hog. W. E. Petty. No. 1,426,315; Aug. 15.
- Crate, Collapsible metal. J. A. Hazen. No. 1,414,948; May 2.
- Crate fastener. H. B. Jewell and L. L. Minville. No. 1,431,809; Oct. 10.
- Crate, Folding. A. H. Blakemore. No. 1,423,596; July 25.
- Crate, Folding. R. F. Doll and J. C. Thies. No. 1,426,363; Aug. 22.
- Crate, Folding. J. W. Lucabaugh. No. 1,423,863; July 25.
- Crate, Folding. H. W. Worley. No. 1,413,149; Apr. 18.
- Crate, Folding animal. W. E. Petty. No. 1,406,278; Feb. 14.
- Crate, Folding egg. F. Hendricks. No. 1,404,857; Jan. 31.
- Crate for milk bottles. W. Lynch. No. 1,426,304; Aug. 15.
- Crate-forming apparatus. F. F. Varela. No. 1,406,114; Feb. 7.
- Crate-head-making machine. G. D. Parker. No. 1,407,295; Feb. 21.
- Crate, Knockdown. C. W. Young. No. 1,428,070; Sept. 5.
- Crate, Metal. A. T. O'Dea. No. 1,408,392; Feb. 28.
- Crate, Milk. C. A. Woolsey. No. 1,433,327; Oct. 24.
- Crate or box, Collapsible. D. Adams. No. 1,427,766; Sept. 5.
- Crate or coop, Folding. A. N. Eitsert. No. 1,409,935; Mar. 21.
- Crate, Poultry. F. P. Brooks. No. 1,432,960; Oct. 24.
- Crate, Poultry. E. Cox. No. 1,429,718; Sept. 19.
- Crate, Poultry. C. J. Eggert and C. L. Bonhan. No. 1,436,869; Nov. 28.
- Crate, Shipping. B. A. Stamp. No. 1,410,227; Mar. 21.
- Crate, Shipping. B. F. Tobin, Jr. No. 1,438,197; Dec. 12.
- Crates and boxes, Corner lock for. J. P. Wilson. No. 1,419,794; June 13.
- Crates, Closure device for egg. G. A. Fox. No. 1,436,440; Nov. 21.
- Crating machine, Bottle. P. K. Couk. No. 1,405,102; Jan. 31.
- Crating or packing means. C. A. Cummings. No. 1,406,615; Feb. 14.
- Cravat appliance. A. Grossman. No. 1,409,848; Mar. 14.
- Crayon. E. T. Hurley. No. 1,414,570; May 2.
- Cream and egg whipper. J. H. Viner. No. 1,427,986; Sept. 5.
- Cream separator. W. G. Coote. No. 1,433,342; Oct. 24.
- Cream separator. C. M. Dye. No. 1,428,364; Sept. 5.
- Cream separator. O. Krenke. No. 1,426,880; Aug. 22.
- Cream separator. G. A. Wendt. No. 1,432,816; Oct. 24.
- Cream separator, Convertible. C. H. Hackett. No. 1,437,651; Dec. 5.
- Cream separators, Bowl clamp for. A. L. Baughman. No. 1,431,923; Oct. 17.
- Cream separators, Power drive for. C. O. Anderson. No. 1,430,716; Oct. 3.
- Cream whip. S. Orzechowski. No. 1,438,716; Dec. 12.
- Cream whip and the like. E. E. Holt. No. 1,426,080; Aug. 15.
- Creasing iron. F. G. Hofmann. No. 1,429,880; Sept. 19.
- Creasing machine. S. Smith. No. 1,434,162; Oct. 31.
- Creasing mechanism. A. Novick. No. 1,421,817; July 4.
- Creel, Warper's. G. Jourdain. No. 1,427,394; Aug. 29.
- Creepers. B. L. Herrick. No. 1,420,101; June 20.
- Cremation furnace. A. H. Davidson and S. Sundelius. No. 1,421,919; July 4.
- Crib. M. Demlinger. No. 1,418,541; June 6.
- Crib. A. Izen. No. 1,423,663; July 25.
- Crib. E. W. Krueger. No. 1,432,190; Oct. 17.
- Crib, Folding. E. E. Gowell. No. 1,429,869; Sept. 19.
- Crib, Folding. H. E. Holbrook. No. 1,435,299; Nov. 14.
- Crib, Folding. G. M. Thomson. No. 1,437,623; Dec. 5.
- Crib or bed cover. R. R. Smith. No. 1,426,230; Aug. 15.
- Cribbing. F. Kircher. No. 1,428,595; Sept. 12.
- Crochet needle. S. M. Riker. Nos. 1,409,579-81; Mar. 14.
- Crockery, Machine for washing. O. Gruner. No. 1,434,887; Nov. 7.
- Crosshead. M. D. Joyner. No. 1,419,457; June 13.
- Crosshead. J. Kindervater. No. 1,428,695; Sept. 12.
- Crosshead. J. P. Lavoie. No. 1,424,925; Aug. 8.
- Crosshead. H. Shoemaker. No. 1,436,915; Nov. 28.

Alphabetical list of inventions—Continued.

- Crosshead adjuster. T. Rogatchoff. No. 1,416,418; May 16.
- Cross member and spring protector. F. D. Blanton. No. 1,410,242; Mar. 21.
- Crosstie. C. L. Cain. No. 1,427,062; Aug. 22.
- Crosstie. C. L. Farnham. No. 1,426,828; Aug. 22.
- Crosstie. E. H. Phillips. No. 1,427,628; Aug. 29.
- Crossing-bar joint. E. Bogert. No. 1,419,446; June 13.
- Crossings, Gate for grade. F. P. Mansfield. No. 1,404,988; Jan. 31.
- Crowning machine. F. L. Lloyd. No. 1,438,769; Dec. 12.
- Crowns and teeth in their operative position, Means for adjusting and securing artificial. J. S. Bridges. No. 1,412,268; Apr. 11.
- Crucible furnace, Three-phase. C. H. Carpenter. No. 1,415,989; May 16.
- Crusher. *See*—
- Centrifugal ore crusher. Gytratory crusher.
- Clod crusher. Stone crusher.
- Crusher. C. L. Carman. No. 1,436,338; Nov. 21.
- Crusher. G. E. Kridler. No. 1,436,347; Nov. 21.
- Crusher. E. L. Sanborn. No. 1,402,255; Jan. 3.
- Crusher. A. F. Williams. No. 1,414,799; May 2.
- Crusher. M. F. Williams. No. 1,439,781; Dec. 26.
- Crusher and mill, Combination. H. Loeven. No. 1,409,558; Mar. 14.
- Crusher and mill, Combined. H. Loeven. No. 1,404,982; Jan. 31.
- Crusher and packer, Clod. J. I. and L. I. Hoke. No. 1,424,906; Aug. 8.
- Crusher and pulverizer. W. M. Davidson. No. 1,420,021; June 20.
- Crusher and pulverizer. A. Gillespie. No. 1,420,031; June 20.
- Crusher and pulverizer. H. M. Plaisted. No. 1,427,842; Sept. 5.
- Crusher and pulverizer. H. M. Plaisted. No. 1,439,754; Dec. 26.
- Crusher and pulverizer. M. F. Williams. No. 1,420,354; June 20.
- Crusher roll. W. A. Battey. No. 1,410,546; Mar. 28.
- Crusher roll. B. C. Osler. No. 1,415,608; May 9.
- Crushers, Cage-partition plate for. W. M. Davidson. No. 1,439,872; Dec. 26.
- Crushers, Hammer rod for. W. M. Davidson. No. 1,439,800; Dec. 26.
- Crushers, Rotary beater for swing-hammer. J. L. Hiller. No. 1,434,540; Nov. 7.
- Crushing and grinding mill. F. Wriedt. No. 1,432,046; Oct. 17.
- Crushing and pulverizing machine. J. L. Hiller. No. 1,436,001; Nov. 21.
- Crushing machine. W. M. Hoppin. No. 1,406,189; Feb. 14.
- Crushing machine, Self-scouring. W. F. Bach. No. 1,434,360; Nov. 7.
- Crushing machines, Retarder feeder for. J. L. Hiller. No. 1,407,330; Feb. 21.
- Crushing mill. F. O. Williamson. No. 1,413,644; Apr. 25.
- Crush work, Machine for shaping. E. W. Wiese, sr. No. 1,424,789; Aug. 8.
- Crutch. A. B. Louison. No. 1,407,553; Feb. 21.
- Crutch chair. S. A. Holmes. No. 1,433,373; Oct. 24.
- Crutch tip. G. Hipwood. Nos. 1,429,428-9; Sept. 19.
- Crutch, etc., tip. O. A. Youngren. No. 1,438,883; Dec. 12.
- Crutches, Armrest attachment for. G. Hipwood. No. 1,434,387; Nov. 7.
- Crutches, Shock absorber for. W. F. Fanning. No. 1,406,453; Feb. 14.
- Crystal violet making. H. L. Trumbull and W. L. Evans. No. 1,402,195; Jan. 3.
- Crystals, Apparatus for the production of. C. C. Haferkamp. No. 1,430,900; Oct. 3.
- Crystals, Making piezo-electrical. A. M. Nicolson. No. 1,414,370; May 2.
- Crystals, Producing aluminum-chloride. S. E. Sicurin. No. 1,403,061; Jan. 10.
- Crystallizer. T. E. Stevens. No. 1,409,607; Mar. 14.
- Cuboid support. W. C. Burns. No. 1,426,258; Aug. 15.
- Cue. R. F. Bolam. No. 1,407,512; Feb. 21.
- Cue holder. D. M. Cua. No. 1,416,617; May 16.
- Cue-tip cutter. J. D. Martin. No. 1,424,506; Aug. 1.
- Cue-tip fastener. H. J. Grenier. No. 1,430,500; Sept. 26.
- Cuff. C. M. Walker. No. 1,419,332; June 13.
- Cuff, Detachable. J. Calco. No. 1,413,897; Apr. 25.
- Cuff fastener. O. E. Kohl. No. 1,426,571; Aug. 22.
- Cuff link. E. M. Butler. No. 1,431,629; Oct. 10.
- Cuff link. I. S. Kaufman. No. 1,414,572; May 2.
- Cuff link. O. E. Kohl. No. 1,426,572; Aug. 22.
- Cuff link. J. Kowall. No. 1,427,959; Sept. 5.
- Culinary and like vessels, Cover for. B. P. Wagner. No. 1,409,262; Mar. 14.
- Culinary implement. E. Nicolussi. No. 1,428,703; Sept. 12.
- Culinary utensil. E. De Armond. No. 1,429,492; Sept. 19.
- Culinary utensil. H. P. Ball. No. 1,411,076; Mar. 28.
- Culinary utensil. C. Olson. No. 1,430,318; Sept. 26.
- Culinary vessel. T. C. Davidson. No. 1,418,432; June 6.
- Culinary vessel. T. D. C. Smith. No. 1,417,582; May 30.
- Cultivating implement. J. A. Allen. No. 1,415,759; May 9.
- Cultivating implement. C. J. Binmore. No. 1,419,953; June 23.
- Cultivating implement. J. W. Brownson. No. 1,424,552; Aug. 1.
- Cultivating machine, Rotary. G. Diöszegi. No. 1,414,262; Apr. 25.
- Cultivating tool, Soil. M. Strom and E. Hoglund. No. 1,416,906; May 23.
- Cultivator. C. J. Allen. No. 1,425,932; Aug. 15.
- Cultivator. S. K. Dennis. No. 1,408,990; Mar. 7.
- Cultivator. F. C. Dittmar. No. 1,419,722; June 13.
- Cultivator. A. L. Elledge. No. 1,407,647; Feb. 21.
- Cultivator. J. H. Fisher. No. 1,440,216; Dec. 26.
- Cultivator. E. Fowler and J. V. Lewis. No. 1,408,575; Mar. 7.
- Cultivator. V. Guerra y Marrero. No. 1,413,910; Apr. 25.
- Cultivator. J. F. Harden. Nos. 1,415,637-8; May 9.
- Cultivator. F. G. Hengst. No. 1,417,381; May 23.
- Cultivator. B. I. Hughes, jr., J. A. Dickey, and E. C. Catts. No. 1,431,806; Oct. 10.
- Cultivator. T. M. Hughes. No. 1,414,880; May 2.
- Cultivator. R. G. Isley. No. 1,422,982; July 18.
- Cultivator. F. Kanke, jr. No. 1,431,815; Oct. 10.
- Cultivator. J. J. Kovar. No. 1,418,807; June 6.
- Cultivator. A. S. Krotz. No. 1,413,336; Apr. 18.
- Cultivator. H. A. Mayer. No. 1,402,242; Jan. 3.
- Cultivator. H. H. Merriman. No. 1,402,521; Jan. 3.
- Cultivator. H. H. Merriman. No. 1,402,880; Jan. 10.
- Cultivator. G. T. Newby, Jr. No. 1,408,902; Mar. 7.
- Cultivator. M. L. Novo. No. 1,426,665; Aug. 22.
- Cultivator. H. H. Piper. No. 1,418,164; May 30.
- Cultivator. C. Putkowski. No. 1,417,942; May 30.
- Cultivator. H. Rettig. No. 1,404,544; Jan. 24.
- Cultivator. D. R. Richie. No. 1,406,417; Feb. 14.
- Cultivator. L. L. Roach. No. 1,439,579; Dec. 19.
- Cultivator. J. D. Rodgers. No. 1,418,675; June 6.
- Cultivator. P. N. Schrum. No. 1,434,028; Oct. 31.
- Cultivator. D. W. Strickland. No. 1,427,424; Aug. 29.
- Cultivator. J. Talbot. No. 1,409,618; Mar. 14.
- Cultivator. W. L. Thomas. No. 1,412,721; Apr. 11.
- Cultivator. J. R. Walton. No. 1,418,342; June 6.
- Cultivator. G. F. Warner. No. 1,429,384; Sept. 19.
- Cultivator. M. F. Watkins. No. 1,421,872; July 4.
- Cultivator. F. W. Zint. No. 1,403,533; Jan. 17.
- Cultivator and harrow, Combined. W. C. Spivey. No. 1,402,680; Jan. 3.
- Cultivator and planter, Hand-steered, wheeled, convertible. M. Hudgens. No. 1,418,262; May 30.
- Cultivator and thinner, Combination. M. Koizumi. No. 1,433,209; Oct. 24.
- Cultivator and twin seed and fertilizer sowing implement, Combined. J. H. Reichelt. No. 1,405,001; Jan. 31.
- Cultivator attachment. J. Fuller. No. 1,433,365; Oct. 24.
- Cultivator attachment. W. D. Kirkpatrick. No. 1,431,464; Oct. 10.
- Cultivator attachment. C. B. Kettering. No. 1,437,110; Nov. 28.
- Cultivator attachment. J. P. Neely. No. 1,424,669; Aug. 1.
- Cultivator attachment. M. R. Sims. No. 1,421,593; July 4.
- Cultivator attachment. L. J. Summerlin. No. 1,419,477; June 13.
- Cultivator blade. C. E. Curtiss. No. 1,438,583; Dec. 12.
- Cultivator blade. F. Matoushek. No. 1,402,878; Jan. 10.
- Cultivator. Disk. D. M. Watters. No. 1,421,113; June 27.
- Cultivator fender. H. S. Trumbull. No. 1,433,249; Oct. 24.
- Cultivator foot. J. E. Dawson. No. 1,427,075; Aug. 22.
- Cultivator for treating the soil. C. Köszegi. No. 1,414,364; May 2.
- Cultivator, Gravity walking band. J. E. Hosmer. No. 1,411,435; Apr. 4.
- Cultivator, Hand. T. E. Stanley. No. 1,406,772; Feb. 14.
- Cultivator. Lister motor. T. Brown. No. 1,426,544; Aug. 22.
- Cultivator, Motor. T. Brown. No. 1,411,476; Apr. 4.
- Cultivator, Motor. W. G. Duffield. No. 1,437,501; Dec. 5.
- Cultivator, Motor. C. S. McCarthy, jr. No. 1,437,667; Dec. 5.
- Cultivator. Pivot-axle. L. W. Beer. No. 1,411,152; Mar. 28.
- Cultivator. Power. E. W. Getz. No. 1,424,297; Aug. 1.
- Cultivator. Power. E. A. Johnston and C. W. Mott. No. 1,422,985; July 18.
- Cultivator, Power-driven. T. S. Stephens. No. 1,416,993; May 23.
- Cultivator. Power-lift. J. Fritsche. No. 1,403,400; Jan. 10.
- Cultivator, Rotary. K. Schroeder. No. 1,430,595; Oct. 3.
- Cultivator. Rotary-disk. H. W. Campbell. No. 1,417,971; May 30.
- Cultivator shanks, Clamp for riding. T. A. Curtin. No. 1,404,433; Jan. 24.
- Cultivator shield. O. B. Kosmalski. No. 1,414,191; Apr. 25.
- Cultivator shield. H. Otto. No. 1,419,687; June 13.
- Cultivator-tooth fastening. E. B. McCartney. No. 1,415,102; May 9.
- Cultivators, Controlling means for. D. K. Wilson. No. 1,412,988; Apr. 18.
- Cultivators, Fender attachment for. A. F. Matthews. No. 1,413,127; Apr. 18.

Alphabetical list of inventions—Continued.

- Cultivators, Fender for corn. W. F. Dravis. No. 1,405,980; Feb. 7.
- Cultivators, Harrow attachment for. A. Goode. No. 1,433,813; Oct. 31.
- Cultivators, Seeder attachment for. W. L. Peterson. No. 1,414,580; May 2.
- Cultivators, Shear for rotary soil. C. M. Hamshaw. No. 1,402,858; Jan. 10.
- Cultivators, Spring tooth for. A. W. Reynolds. No. 1,418,173; May 30.
- Cultivators, Tool holder for. C. H. White. No. 1,437,032; Nov. 28.
- Culvert, C. V. Joseph. No. 1,431,003; Oct. 3.
- Culvert, M. & J. M. Kammerer. No. 1,412,616; Apr. 11.
- Culvert, W. J. Turner. No. 1,403,063; Jan. 10.
- Culvert and arch construction. A. T. Newell. No. 1,433,219; Oct. 24.
- Culverts, Concrete block for. D. M. Dean. No. 1,404,935; Jan. 31.
- Culverts, Connection for. H. K. Sweney. No. 1,408,485; Mar. 7.
- Cup: *See*—
- Automatic oil cup. Lubricating-grease cup.
- Battery cup. Oil cup.
- Caster cup. Priming cup.
- Dental impression cup. Sanitary moistening cup.
- Drinking cup. Sanitary paper cup.
- Forced-feed oil cup. Shaving cup.
- Grease cup. Sponge cup.
- Lubricant cup. Teat cup.
- Cup, J. V. Weekbaugh. No. 1,421,114; June 27.
- Cups, Making. Z. Lipowski. No. 1,403,043; Jan. 10.
- Cupboard and folding table, Combined. W. H. Harris. No. 1,440,010; Dec. 26.
- Cupola furnace. H. Koch. No. 1,435,610; Nov. 14.
- Curb box or pipe. P. J. Ihrig. No. 1,429,350; Sept. 19.
- Curling mold. A. Kluge. No. 1,430,562; Oct. 3.
- Curing compounds, Working quick. W. A. Gibbons. No. 1,427,283; Aug. 29.
- Curler, K. McClaire. (Reissue.) No. 15,363; May 23.
- Curling iron. A. Schärer. No. 1,421,313; June 27.
- Curling irons, Revolving connector for electric. M. F. Fitzgerald. No. 1,407,937; Feb. 28.
- Currency series. E. E. Austin. No. 1,418,611; June 6.
- Current arc-welding apparatus, Alternating. E. J. Wiggins and E. S. Hebel. No. 1,411,394; Apr. 4.
- Current arrester, Excess-. M. H. King. No. 1,408,606; Mar. 7.
- Current blower or hand pump, Continuous-. D. Guelbaum. No. 1,411,016; Mar. 28.
- Current-carrying resistors, Construction of. W. L. Brooks. No. 1,413,001; Apr. 18.
- Current circuits, Regulating means for alternating. E. R. Stoekle. No. 1,420,885; June 27.
- Current circuits, Regulating system for alternating. W. B. Kirke. No. 1,414,652; May 2.
- Current-collecting device. C. B. Mills. No. 1,427,407; Aug. 29.
- Current collector. C. B. Buchanan and C. C. Johnson. No. 1,403,891; Jan. 17.
- Current collector. G. B. Evans. No. 1,431,295; Oct. 10.
- Current collector. J. L. Whittaker. No. 1,407,010; Feb. 21.
- Current-collector contrivance. K. Jacquet. No. 1,426,388; Aug. 22.
- Current commutator motor, Alternating-. C. W. Shaifer. No. 1,434,755; Nov. 7.
- Current-controlling device, Heat-responsive. G. W. Hamilton. No. 1,402,417; Jan. 3.
- Current-distributing nets against temporary interruptions, System of protecting electric. M. Höchstädter. No. 1,404,437; Jan. 24.
- Current flowing in an alternating-current circuit, Means for controlling and measuring a. E. O. Schweitzer. No. 1,422,484; July 11.
- Current, Frequency changer and generator of alternating. N. Oboukhoff. No. 1,426,001; Aug. 15.
- Current generator, Alternating-. F. Cutting and B. Washington. No. 1,435,813; Nov. 14.
- Current generators, Arrangement for exciting continuous. L. Schön. No. 1,420,761; June 27.
- Current interrupter. C. E. Bennett. No. 1,420,515; June 20.
- Current-limiting device. B. E. Getchell. No. 1,427,203; Aug. 29.
- Current, Means for operating electromagnetic reciprocating tools with pulsating direct. H. Poth. No. 1,407,804; Feb. 28.
- Current meter. W. G. Price. No. 1,413,355; Apr. 18.
- Current motor. H. Alles. No. 1,432,271; Oct. 17.
- Current motor. H. Alles. No. 1,434,357; Oct. 31.
- Current motor. E. S. Hicks. No. 1,423,717; July 25.
- Current motor. G. M. Kievan. No. 1,406,031; Feb. 7.
- Current motor, Alternating-. V. A. Fynn. Nos. 1,406,366-7; Feb. 14.
- Current motor, Alternating liquid. G. Constantinesco. No. 1,432,672; Oct. 17.
- Current motor and generator, Direct-. G. and J. G. Stirk. No. 1,407,958; Feb. 28.
- Current motor, Fluid-. P. Reinberger. No. 1,427,124; Aug. 29.
- Current motor, Synchronous alternating liquid. G. Constantinesco. No. 1,432,673; Oct. 17.
- Current motors, Operating direct-. I. Kiltsee. No. 1,405,041; Jan. 31.
- Current motors, Speed-regulation of alternating-. L. W. Thompson. No. 1,408,844; Mar. 7.
- Current rectifier, Alternating-. F. Blaser. No. 1,437,336; Nov. 28.
- Current relay, Alternating-. O. Thompson. No. 1,420,067; June 20.
- Current, Transformation of direct. M. Schenkel. No. 1,418,477; June 6.
- Current transformer. D. J. Angus. No. 1,415,505; May 9.
- Current transformer, Direct-. A. F. Nesbit. No. 1,421,538; July 4.
- Current wheel, Feathering. J. M. Narsh. No. 1,436,352; Nov. 21.
- Currents, etc., Apparatus for producing modified. F. W. Meyer. No. 1,408,118; Feb. 28.
- Currents, Discharge-tube relay for undulatory. E. Reisz. No. 1,418,022; May 30.
- Currents in a polar relay, Means for neutralizing the effect of earth. T. P. Masters. No. 1,402,240; Jan. 3.
- Currents of low voltage into direct currents of high voltage, Apparatus for converting direct. E. Reisz. No. 1,418,023; May 30.
- Currents, Rectifier for alternating. G. Holst and E. Oosterhuis. No. 1,410,062; Mar. 21.
- Currents, Repeater for undulatory. W. Wilson. No. 1,426,801; Aug. 22.
- Currents, Selective reception of alternating. F. E. Pernot and L. J. Rich. No. 1,426,334; Aug. 15.
- Curtain. J. C. Brown. No. 1,407,248; Feb. 21.
- Curtain. T. H. Pope. No. 1,434,405; Nov. 7.
- Curtain. R. Snoeck. No. 1,420,455; June 20.
- Curtain and portière hanger, Combined. E. N. Ellis. No. 1,436,702; Nov. 28.
- Curtain and shade bracket, Combined. H. L. Biesemeyer. No. 1,437,288; Nov. 28.
- Curtain and shade holder. C. J. Davis. No. 1,435,816; Nov. 14.
- Curtain and shade holder, Adjustable window. C. F. Magnusson. No. 1,425,996; Aug. 15.
- Curtain and shade holder, Combination. J. W. Mott. No. 1,407,877; Feb. 28.
- Curtain and shade-roller fixture. C. F. Degen. No. 1,436,153; Nov. 21.
- Curtain, Combination back and side. K. Forbes. No. 1,422,431; July 11.
- Curtain confiner. J. O. Holmes. No. 1,412,407; Apr. 11.
- Curtain-depressing mechanism, Focal-plane-shutter-. E. F. Kingsbury. No. 1,427,824; Sept. 5.
- Curtain fastener. C. A. Beemer. No. 1,420,177; June 20.
- Curtain fastener. J. Vodicica. No. 1,415,129; May 9.
- Curtain fastener. J. Vodicica. No. 1,425,618; Aug. 15.
- Curtain fastener. J. Vodicica and A. W. Kimbell. No. 1,438,972; Dec. 19.
- Curtain fixture. J. H. Rove. No. 1,424,337; Aug. 1.
- Curtain fixture. J. A. Henry. No. 1,438,439; Dec. 12.
- Curtain fixture. S. C. Hills. No. 1,433,507; Oct. 24.
- Curtain fixture. S. Lange. No. 1,437,851; Dec. 5.
- Curtain fixture. S. Simon and W. O'Neill. No. 1,407,823; Feb. 28.
- Curtain fixture. T. S. Wait. No. 1,402,815; Jan. 10.
- Curtain fixture, Sash-. S. C. Hills. No. 1,433,506; Oct. 24.
- Curtain holder. G. A. Efford. No. 1,435,110; Nov. 7.
- Curtain hanger. C. W. Hutchinson. No. 1,409,722; Mar. 14.
- Curtain hanger. A. Kubiak. No. 1,414,289; Apr. 25.
- Curtain hanger. W. E. Wroclinski. No. 1,439,783; Dec. 26.
- Curtain light. W. Walker. No. 1,436,126; Nov. 21.
- Curtain light frame. W. A. Swayze. No. 1,431,706; Oct. 10.
- Curtain-light mounting. B. P. Donnelly. No. 1,440,344; Dec. 26.
- Curtain pole. H. R. Rohr. No. 1,406,685; Feb. 14.
- Curtain-pole and shade support. G. and P. Salata. No. 1,409,032; Mar. 7.
- Curtain-pole clamp. W. N. Bauman. No. 1,405,257; Jan. 31.
- Curtain-pole fastener. L. L. Urban. No. 1,411,139; Mar. 28.
- Curtain-pole support. J. F. Fredak. No. 1,413,846; Apr. 25.
- Curtain rod. A. Beckman. No. 1,419,207; June 13.
- Curtain rod. J. J. Creadon. No. 1,434,369; Nov. 7.
- Curtain rod. C. P. Henry and P. Harmer. No. 1,438,490; Dec. 12.
- Curtain rod. C. J. Howell and L. B. Odson. No. 1,405,416; Feb. 7.
- Curtain rod. C. W. Kirsch. No. 1,436,449; Nov. 21.
- Curtain rod. W. Kress. No. 1,419,389; June 13.
- Curtain rod, Adjustable. I. Bloom. No. 1,424,444; Aug. 1.
- Curtain rod and rod support. W. A. Newell. No. 1,428,972; Sept. 12.
- Curtain-rod bracket. H. T. Barnwell. No. 1,405,891; Feb. 7.
- Curtain-rod bracket. J. W. McGhee. No. 1,403,333; Jan. 10.
- Curtain-rod bracket. G. H. Smith. No. 1,402,453; Jan. 3.
- Curtain-rod bracket. C. W. Walker. No. 1,408,665; Mar. 7.
- Curtain rod, Extension. W. J. Bergens. No. 1,432,437; Oct. 17.
- Curtain rods and the like, Supporting and holding bracket for. J. B. Allen. No. 1,431,353; Oct. 10.

Alphabetical list of inventions—Continued.

- Curtain roll. E. E. Heintz. No. 1,438,997; Dec. 19.
Curtain roller, Automatic. E. A. Stromberg and K. E. Boberg. No. 1,437,479; Dec. 5.
Curtain rollers, Extensible. H. U. Morton. No. 1,434,414; Nov. 14.
Curtain-shade roller. C. A. Daniel. No. 1,404,837; Jan. 31.
Curtain, Storm. F. L. Canott. No. 1,410,457; Mar. 21.
Curtain stretcher. D. R. Landis. Nos. 1,403,505-6; Jan. 17.
Curtain stretcher. J. L. Stutte. No. 1,414,231; Apr. 25.
Curtain support, Side-. G. W. Scott. No. 1,431,332; Oct. 10.
Curtain support, Window-. A. B. Wendel. No. 1,406,311; Feb. 14.
Curtain, Vehicle and other. G. Sundback. No. 1,432,219; Oct. 17.
Curtain window. H. L. Piper. No. 1,437,011; Nov. 28.
Curtain-window construction. B. J. Hubbard. No. 1,414,470; May 2.
Curtain-window light. N. Murphy. No. 1,424,511; Aug. 1.
Curtain-window light. J. B. Schaaf. No. 1,423,685; July 25.
Curtains and draperies, Support for. H. O. Wolff. No. 1,433,977; Oct. 31.
Curtains, Device for hanging. F. F. McMahon. No. 1,408,755; Mar. 7.
Curtains, Fastener for. G. Olson. No. 1,402,951; Jan. 10.
Curtains, Frame for motor-car. W. Hertel. No. 1,417,994; May 30.
Curtains, Releasing handles for vestibule. W. E. Palt. No. 1,424,375; Aug. 1.
Curved rack. F. Hornby. No. 1,412,116; Apr. 11.
Curved surfaces, Method and apparatus for finishing. H. Wesson. No. 1,423,378; July 18.
Curves, Device for indicating. W. Waffenschmidt. No. 1,417,703; May 30.
Cushion: See—
Billiard-table cushion. Pneumatic cushion.
Die cushion. Spring cushion.
Heel cushion.
Cushion. J. S. Friede. No. 1,420,990; June 27.
Cushion construction. Spring-. L. A. Suekoff. No. 1,410,965; Mar. 28.
Cushion lock. W. S. Smith. No. 1,411,942; Apr. 4.
Cushion lock, Safety steel strap. R. W. Saunders. No. 1,421,726; July 4.
Cushion-making machine. C. C. Meutsch. No. 1,414,825; May 2.
Cushion mechanism. E. J. Glackin. No. 1,418,912; June 6.
Cushion or buffer mat, Reversible. C. L. Schofield. No. 1,440,181; Dec. 26.
Cushion, Pneumatic. B. B. Holmes. No. 1,439,417; Dec. 19.
Cushion seat. C. F. Coda. No. 1,419,492; June 13.
Cushion spring, Seat-. F. W. Morse. No. 1,430,249; Sept. 26.
Cushion structure, Spring. J. T. Holtfoth. No. 1,439,891; Dec. 26.
Cushion wheel. G. L. Allen. No. 1,427,995; Sept. 5.
Cushion wheel. G. G. Barry. No. 1,404,424; Jan. 24.
Cushion wheel. C. B. Evans. No. 1,436,388; Nov. 21.
Cushioned seat. F. B. King and R. L. Stevens. No. 1,419,270; June 13.
Cushioned wheel. M. F. Kettler. No. 1,413,166; Apr. 18.
Cushioned wheel. L. W. Richardson. No. 1,432,569; Oct. 17.
Cuspidor. W. F. Hartline. No. 1,427,809; Sept. 5.
Cuspidor. J. Hayes. No. 1,424,247; Aug. 1.
Cuspidor. L. Mintzies. No. 1,406,472; Feb. 14.
Cuspidor. N. Schlesinger. No. 1,415,955; May 16.
Cuspidor, Flushing. R. H. Ankeny. No. 1,424,272; Aug. 1.
Cuspidor for vehicles. E. Kannow. No. 1,426,876; Aug. 22.
Cut-off machine, Automatic. C. B. Higgins. No. 1,431,305; Oct. 10.
Cuspidor, Sanitary or hygienic. W. Smith. No. 1,408,542; Mar. 7.
Cuspidors, Sanitary cover attachment for. F. E. Ehrhardt. No. 1,404,943; Jan. 31.
Cuticle stick. E. W. Keyser. No. 1,413,033; Apr. 18.
Cutlery. H. J. Zinn. No. 1,414,997; May 2.
Cutlery, Polishing compound for finishing table. G. F. Hemming. No. 1,422,707; July 11.
Cutlery-polishing machine. C. H. Hemming. No. 1,422,358; July 11.
Cut-off, Automatic safety. R. T. Webb. No. 1,419,334; June 13.
Cut-off mechanism. W. F. Grupe. No. 1,418,437; June 6.
Cut-off, Pressure-controlled. M. L. Davis and G. W. Cook. No. 1,423,403; July 18.
Cut-out, Automatic. B. L. Campbell. No. 1,422,923; July 18.
Cut-out device, Pneumatic. C. C. Farmer. No. 1,424,007; July 25.
Cut-out, Maximum. A. Thode. No. 1,411,389; Apr. 4.
Cutter: See—
Asbestos-sheet cutter.
Asphalt cutter.
Bale cutter.
Band cutter.
Bandage cutter.
Belt cutter.
Bermuda-grass cutter.
Biscuit cutter.
Bread cutter.
Butter cutter.
Cabbage cutter.
Candy cutter.
Cigar cutter.
Cue-tip cutter.
File-milling cutter.
Film cutter.
Fodder cutter.
Fruit cutter.
Gasket cutter.
Gear cutter.
Glass cutter.
Glass-cylinder cutter.
Grass cutter.
Groove cutter.
Hair cutter.
Hay cutter.
Ice cutter.
Loom-temple thread cutter.
Cutter. C. G. Huelves. No. 1,407,417; Feb. 21.
Cutter. H. M. Loomer. No. 1,412,084; Apr. 11.
Cutter. O. L. Scalbom. No. 1,403,644; Jan. 17.
Cutter and planter, Potato. J. E. Paulson. No. 1,406,679; Feb. 14.
Cutter blades, Fastening device for removable. W. Lewis. No. 1,438,184; Dec. 12.
Cutter head. J. S. Diller. No. 1,405,903; Feb. 7.
Cutter head. F. L. Lane and F. R. Weaver. No. 1,413,665; Apr. 25.
Cutter head. H. J. Mitchell. No. 1,405,614; Feb. 7.
Cutter head and gauge. F. Vogel. No. 1,420,068; June 20.
Cutter-head mechanism. J. B. Ettinger. No. 1,414,633; May 2.
Cutter, Rotary head. A. B. Fowler. No. 1,407,021; Feb. 21.
Cutters, Generation of convolute lines in hobbing. O. G. Simmons. No. 1,426,680; Aug. 22.
Cutting and mixing machine. C. W. Hottman. No. 1,417,065; May 28.
Cutting apparatus. N. M. Johnson. No. 1,424,133; July 25.
Cutting block. E. E. Buckner. No. 1,404,831; Jan. 31.
Cutting, creasing, and folding machine. A. G. Gordon. No. 1,439,545; Dec. 19.
Cutting device. M. C. A. H. Pape. No. 1,419,302; June 13.
Cutting device and receptacle therefor. S. Oberlander. No. 1,429,162; Sept. 12.
Cutting dies, Making metal-base. J. F. Murphy. No. 1,420,276; June 20.
Cutting machine. M. H. Ballard. No. 1,431,920; Oct. 17.
Cutting machine. A. Bates. No. 1,436,691; Nov. 28.
Cutting machine. F. Baumann, Jr. No. 1,418,053; May 30.
Cutting machine. B. N. Clary and B. F. Mayo. No. 1,405,492; Feb. 7.
Cutting machine. C. E. Conner. No. 1,415,921; May 16.
Cutting machine. H. H. Freer. No. 1,419,037; June 6.
Cutting machine. V. Guardino. No. 1,434,888; Nov. 7.
Cutting machine. J. B. Hadaway. No. 1,409,169; Mar. 14.
Cutting machine. J. B. Hadaway. No. 1,416,707; May 23.
Cutting machine. J. B. Hadaway. No. 1,430,546; Oct. 3.
Cutting machine. C. W. Hottmann. No. 1,416,204; May 16.
Cutting machine. A. E. Hudson. No. 1,431,955; Oct. 17.
Cutting machine. F. M. Joslin. No. 1,417,830; May 30.
Cutting machine. C. E. King. No. 1,406,459; Feb. 14.
Cutting machine. P. S. Mitts and W. J. Winston. No. 1,423,867; July 25.
Cutting machine. F. M. Peters and W. H. Hungerford. No. 1,417,562; May 30.
Cutting machine. A. W. Tyler. No. 1,417,117; May 23.
Cutting machine, Cork-. N. C. Nielsen and A. Althuen. No. 1,403,097; Jan. 10.
Cutting machine, Ice-cream-cone-. C. G. Turner. No. 1,402,810; Jan. 10.
Cutting-machine knives, Adjustable mounting for stationary. P. S. Mitts and W. J. Winston. No. 1,430,668; Oct. 3.
Cutting machine, Noodle-. F. Turk. No. 1,404,073; Jan. 17.
Cutting machine, Shell-strip-. H. H. Knott. No. 1,403,255; Jan. 10.
Cutting machine, Slot-. E. J. Armstrong. No. 1,432,011; Oct. 17.
Cutting machine, Stock-. E. E. Winkley. No. 1,412,225; Apr. 11.
Cutting machine, Tube-. E. S. Lea. No. 1,421,263; June 27.
Cutting machine, Veneer-. W. H. Collier. No. 1,438,810; Dec. 12.
Cutting machines, Control device for. B. F. Stowell. No. 1,414,230; Apr. 25.
Meat cutter.
Milling cutter.
Miter-curve cutter.
Pie cutter.
Pipe cutter.
Potato cutter.
Potato-vine cutter.
Rivet cutter.
Rod cutter.
Rolling cutter.
Rotary cutter.
Rotary drill cutter.
Self-rolling rotary cutter.
Shingle cutter.
Square-hole cutter.
Stalk cutter.
Steel cutter.
Stubble cutter.
Thread cutter.
Trash cutter.
Twine cutter.
Valve-seat cutter.
Vegetable cutter.
Weed cutter.
Wire cutter.
Woodworking cutter.
Zigzag cutter.

Alphabetical list of inventions—Continued.

- Cutting machines, Operating device for. B. F. Stowell. No. 1,421,107; June 27.
- Cutting or boring tool or boring head. H. Francis. No. 1,434,995; Nov. 7.
- Cutting sheets or layers, Machine for. C. B. Johnson. No. 1,424,309; Aug. 1.
- Cutting tool. T. R. and L. J. Hancock. No. 1,438,375; Dec. 12.
- Cutting tool. L. E. Jolls. No. 1,403,555; Jan. 17.
- Cutting tool. R. Kienzl. No. 1,422,988; July 18.
- Cutting tool. G. F. Krieger. No. 1,408,358; Feb. 28.
- Cutting tool. J. Labonté. No. 1,416,843; May 23.
- Cutting tool. W. H. McKenzie. No. 1,409,960; Mar. 21.
- Cutting tool. F. P. Miller. No. 1,431,829; Oct. 10.
- Cutting tool. F. P. Miller. No. 1,431,831; Oct. 10.
- Cutting tool, Adjustable. F. Hunziker. No. 1,409,379; Mar. 14.
- Cutting tool and holder. A. Guttly. No. 1,415,237; May 9.
- Cutting tool, Built-up. J. Long. No. 1,408,706; Mar. 7.
- Cutting tool, Circle-. M. A. Butterfield. No. 1,423,828; July 25.
- Cutting tool, Seat-. G. A. Sager. No. 1,435,502; Nov. 14.
- Cutting tools, Salvaging. S. A. Cogsdill. No. 1,403,011; Jan. 10.
- Cutting tools, Variable support for. C. Uebelmesser. No. 1,427,925; Sept. 5.
- Cyanamide from calcium cyanamide, Producing. J. H. Lidholm. No. 1,436,179; Nov. 21.
- Cyanamide into urea, Transforming. J. H. Lidholm. No. 1,436,180; Nov. 21.
- Cyanates, Producing alkali-metal. O. Liebknecht. No. 1,406,662; Feb. 14.
- Cyanides, Producing. F. Van Bichowsky and J. Harthan. No. 1,417,702; May 30.
- Cyanides, Production of alkali-metal. F. J. Metzger. No. 1,439,909; Dec. 26.
- Cycle. A. D. Meiselbach. No. 1,409,748; Mar. 14.
- Cycle, Air. L. B. Kinnard. No. 1,424,653; Aug. 1.
- Cycle engine, Two-stroke-. R. E. Henriksen and A. Jensen. No. 1,440,154; Dec. 26.
- Cycle-frame construction. G. S. Lewis. No. 1,435,611; Nov. 14.
- Cycle lock. H. L. Phippen. No. 1,402,725; Jan. 3.
- Cycle, Motor. J. A. Peters. No. 1,420,498; June 20.
- Cycle, Water. G. C. Brown. No. 1,422,535; July 11.
- Cycle saddle. J. O. Du Brov. No. 1,440,213; Dec. 26.
- Cycle spring suspension. T. D. Kelly. No. 1,438,919; Dec. 12.
- Cycles and like vehicles, Pressed-steel frame for motor. G. Calvignac. No. 1,430,938; Oct. 3.
- Cycles, Brake for. P. Touchais and C. Wahl. No. 1,430,771; Oct. 3.
- Cycles, Code locking device for the steering pillar of. H. E. Dakin. No. 1,411,168; Mar. 28.
- Cycles, Manufacturing front forks of. G. S. Lewis. No. 1,403,257; Jan. 10.
- Cycles, Springing suspension device for. C. Bruno. No. 1,412,012; Apr. 4.
- Cylinder-adjusting device. A. Novick. No. 1,432,030; Oct. 17.
- Cylinder and making same. G. P. McNiff. No. 1,420,721; June 27.
- Cylinder and piston mechanism. L. W. MacMillan. No. 1,431,317; Oct. 10.
- Cylinder-boring device. H. J. Hartig. No. 1,404,203; Jan. 24.
- Cylinder-boring device. L. A. Krejci. No. 1,438,316; Dec. 12.
- Cylinder construction. G. S. Andres. No. 1,413,372; Apr. 18.
- Cylinder construction. G. N. Simpson. No. 1,402,452; Jan. 3.
- Cylinder head. J. O'Neal. No. 1,435,129; Nov. 7.
- Cylinder-head construction. R. A. Beckwith. No. 1,430,051; Sept. 26.
- Cylinder liner. E. B. Moomaw. No. 1,437,904; Dec. 5.
- Cylinder lock. W. T. Coney. No. 1,434,483; Nov. 7.
- Cylinder lock. J. B. Freysinger. No. 1,434,110; Oct. 31.
- Cylinder lock. N. B. Hurd. No. 1,433,620; Oct. 31.
- Cylinder lock. A. Mantanel. No. 1,406,574; Feb. 14.
- Cylinder lock. M. C. Maxwell. No. 1,422,595; July 11.
- Cylinder lock. E. F. Nordin. No. 1,432,353; Oct. 17.
- Cylinder-polishing tool. C. H. Sandford. No. 1,413,876; Apr. 25.
- Cylinder re boring and regrinding machine, Portable. J. F. Swartzell. No. 1,418,744; June 6.
- Cylinder, Steam. G. R. Huff. No. 1,418,079; May 30.
- Cylinder, Textile and like drying. E. Farrell. No. 1,425,083; Aug. 8.
- Cylinder trip mechanism. J. R. Blaine. No. 1,408,067; Feb. 28.
- Cylinders and such like, Support or bearing for drying. W. P. Evans. No. 1,421,193; June 27.
- Cylinders, Cap flange for. J. A. Steinmetz. No. 1,413,502; Apr. 18.
- Cylinders, Cutting. J. Marcy. No. 1,404,989; Jan. 31.
- Cylinders, Device for boring engine. L. V. Johnson. No. 1,406,871; Feb. 14.
- Cylinders, Doll head or bearing for drying. G. Dod. No. 1,425,635; Aug. 15.
- Cylinders, Gauge for. F. J. Pratt. No. 1,425,284; Aug. 8.
- Cylinders, Means for preventing vibration of printing-press. H. A. W. Wood. No. 1,417,652; May 30.
- Cylinders, etc., Method and means for cooling. W. Harper, Jr. No. 1,404,289; Jan. 24.
- Cylinders, Oilier for drill-sharpener. J. Ditson. No. 1,436,699; Nov. 28.
- Cylinders to crank cases, Attachment of engine. S. M. Viale. No. 1,432,371; Oct. 17.
- Cylindrical bodies, such as pipes, rods, and the like against endwise movement, Device for holding. J. A. Burns. No. 1,440,207; Dec. 26.
- Cymbal holder. F. M. Straight. No. 1,416,522; May 16.
- Dam. G. Muehleisen. No. 1,435,901; Nov. 14.
- Dam. H. H. Schaefer. No. 1,404,325; Jan. 24.
- Dam and constructing same. H. W. Hixon. No. 1,419,852; June 13.
- Dam, Automatic flood and power. F. W. Grillich. No. 1,438,913; Dec. 12.
- Dam construction. F. A. Noetzli. No. 1,410,217; Mar. 21.
- Dams, Foldable wicket for. W. F. Kassebaum. No. 1,404,969; Jan. 31.
- Dams, Sluice for. J. Chapman and W. F. R. Reynolds. No. 1,404,092; Jan. 17.
- Damper. B. F. Annis. No. 1,419,438; June 13.
- Damper. C. B. Coalwell. No. 1,429,190; Sept. 12.
- Damper. T. J. Curtis. No. 1,434,529; Nov. 7.
- Damper. C. M. Jensen. No. 1,408,204; Feb. 28.
- Damper. H. Rosenberg. No. 1,411,745; Apr. 4.
- Damper. J. Tandy. No. 1,410,138; Mar. 21.
- Damper. G. H. Turner. No. 1,427,868; Sept. 5.
- Damper-control device. W. L. Leedy. No. 1,417,259; May 23.
- Damper, Fireplace. H. N. Cain. No. 1,415,522; May 9.
- Damper, Fireplace. G. A. Morrell. No. 1,422,465; July 11.
- Damper, Fireplace. S. F. Myers. No. 1,407,351; Feb. 21.
- Damper, Furnace. H. L. Wood. No. 1,402,824; Jan. 10.
- Damper-regulating means for furnaces. W. H. Holt. No. 1,420,704; June 27.
- Damper regulator. E. H. Weatherhead and H. T. Patton. No. 1,438,348; Dec. 12.
- Damper, Vibration. O. Junggren. No. 1,421,785; July 4.
- Dampers. C. F. Randall, J. T. Clark, and J. T. Smith. No. 1,408,223; Feb. 28.
- Dampers, Alarm control for. H. Rietveld. No. 1,428,255; Sept. 5.
- Danger signal. W. F. Moran. No. 1,423,727; July 25.
- Danger signal. F. Shuman. No. 1,420,345; June 20.
- Danger signal for mines. R. W. Lightburn. No. 1,429,211; Sept. 12.
- Darning form. A. L. Hanson. No. 1,404,763; Jan. 31.
- Darning implement. H. C. Marvin. No. 1,432,772; Oct. 24.
- Darning machine. W. E. Sawtell. No. 1,427,022; Aug. 22.
- Darning, Supporting device for use in. E. L. Cornell. No. 1,414,182; Apr. 25.
- Dashboard bracket. J. Ludwig. No. 1,410,688; Mar. 28.
- Dashpot. W. F. Bouché. No. 1,407,320; Feb. 21.
- Dashpot. J. W. Brown, jr. No. 1,434,197; Oct. 31.
- Dashpot. H. W. Cheney. No. 1,426,460; Aug. 22.
- Dashpot. C. B. Coates. No. 1,436,084; Nov. 21.
- Dashpot, Brake-controlling. T. W. Wheatley. No. 1,436,069; Nov. 21.
- Davenport's, Attachment for. N. J. Lundeen and H. F. Russell. No. 1,426,580; Aug. 22.
- Davit, Adjustable. A. P. Schat. No. 1,431,688; Oct. 10.
- Davit, Automatically-braked. A. P. Schat. No. 1,423,739; July 25.
- Davit, Ship's. T. J. Carr. No. 1,422,175; July 11.
- Deaf persons, Acoustical aid for. J. P. Maxfield. No. 1,422,877; July 18.
- Decapitation apparatus. J. Denoël. No. 1,427,446; Aug. 29.
- Decimal-point device for chart readers. G. O. Gray. No. 1,420,695; June 27.
- Deck construction, Rear. A. Gravel. No. 1,416,816; May 23.
- Decorated article. A. N. Epstein. No. 1,407,461; Feb. 21.
- Decorating device. A. A. Domy. No. 1,436,155; Nov. 21.
- Decorating machine. H. F. Freuler and C. L. Morrill. No. 1,427,201; Aug. 29.
- Decorating machine, Fibrous plant. F. O'Neill, Jr. No. 1,420,136; June 20.
- Decorating mechanism. C. Barbieri. No. 1,403,830; Jan. 17.
- Decorticator, Centrifugal. S. H. Gillespie. No. 1,427,457; Aug. 29.
- Decoy. J. O. Adams. No. 1,417,441; May 23.
- Decoy. G. W. Dennett. No. 1,409,285; Mar. 14.
- Decoy, Floating. F. Bauer. No. 1,429,558; Sept. 19.
- Deflection indicator. W. J. Barrett. No. 1,427,773; Sept. 5.
- Deflector. C. A. Joachim and W. F. Killian. No. 1,439,001; Dec. 19.
- Deflector and rear-sight mirror. Wind. A. F. Klipper. No. 1,435,310; Nov. 14.
- Deflector shield. M. H. Donahue. No. 1,429,722; Sept. 19.
- Dehairing machine, Carcass-. L. A. Kramer. No. 1,415,580; May 9.
- Dehairing machine, Hog-. H. O. Hague. No. 1,438,438; Dec. 12.
- Dehydrating apparatus. J. D. Cox. No. 1,416,793; May 23.
- Dehydrating apparatus. F. Maus. No. 1,413,924; Apr. 25.
- Dehydrating apparatus. W. Stricker. No. 1,435,755; Nov. 14.

Alphabetical list of inventions—Continued.

- Dehydrating machine. J. A. Heany. No. 1,414,184; Apr. 25.
- Dehydrating material. Method of and apparatus for. F. Maus. No. 1,418,386; June 6.
- Dehydrating plant. W. B. Guy. No. 1,412,684; Apr. 11.
- Dehydrating. Process and apparatus for. O. Q. Beckworth and O. J. Hobson. No. 1,420,679; June 27.
- Dehydration. W. J. Huff. No. 1,416,205; May 16.
- Dehydration, Automatic. F. W. Harris. No. 1,430,302; Sept. 26.
- Dehydration of pyridine. W. J. Huff. No. 1,416,206; May 16.
- Dehydrator. W. O. Cardin. No. 1,423,188; July 18.
- Dehydrator. T. I. Casey. No. 1,426,816; Aug. 22.
- Dehydrator. F. C. Chapman. No. 1,404,369; Jan. 24.
- Dehydrator. H. C. Eddy and J. T. Worthington. No. 1,430,294; Sept. 26.
- Dehydrator. F. W. Harris. No. 1,405,121; Jan. 31.
- Dehydrator. F. W. Harris. No. 1,430,300; Sept. 26.
- Dehydrator. F. Maus. No. 1,402,306; Jan. 3.
- Dehydrator. W. Meredith. No. 1,428,178; Sept. 5.
- Dehydrator, Adjustable field. H. C. Eddy. No. 1,430,295; Sept. 26.
- Dehydrator, Double field. H. C. Eddy. No. 1,430,296; Sept. 26.
- Dehydrator or drier. D. P. Power. No. 1,422,620; July 11.
- Dehydrator, Stratifying. W. Meredith. No. 1,430,246; Sept. 26.
- Dehydrators, Automatic discharge means for. W. Meredith. No. 1,429,363; Sept. 19.
- Denydrators, Combustion and mixing chamber for. F. C. Chapman. No. 1,422,416; July 11.
- Dehydrators, Starter for electrical. F. W. Harris. No. 1,430,301; Sept. 26.
- Dehydrators, System of water control for electrical. F. W. Harris. No. 1,405,120; Jan. 31.
- Delivering material from rolls. W. M. Wheeldon. No. 1,409,505; Mar. 14.
- Delivering or bagging apparatus. C. A. Defauconpret. No. 1,417,040; May 23.
- Delivery mechanism. W. C. Baxter. No. 1,405,389; Feb. 7.
- Delivery mechanism. B. T. Headley and D. I. Du Bois. No. 1,425,962; Aug. 15.
- Delivery mechanism, Folding. H. A. W. Wood and C. Nordfors. No. 1,419,188; June 13.
- Delivery system, Automatic. J. I. Hoffman. No. 1,438,162; Dec. 5.
- Demand meter. C. A. Boddie. No. 1,408,255; Feb. 28.
- Demountable rims and the like, Tool for. J. Reichert. No. 1,419,758; June 13.
- Demountable ring. J. B. Hegar. No. 1,403,777; Jan. 11.
- Demountable wheel. O. A. Parker. No. 1,413,347; Apr. 18.
- Dental and surgical table, Knockdown. W. G. Holmes. No. 1,422,101; July 11.
- Dental apparatus. C. F. Garretson. No. 1,402,225; Jan. 3.
- Dental appliance. C. E. Kells. No. 1,418,445; June 6.
- Dental bridge attachment, Flexible. L. Brown. No. 1,438,167; Dec. 12.
- Dental-brooch holder. J. M. Gilbert. No. 1,404,519; Jan. 24.
- Dental casting ring. A. O. Brophy. No. 1,429,322; Sept. 19.
- Dental castings, Mechanism for preparing molds for. E. I. Rosheim. No. 1,416,305; May 16.
- Dental cement. S. Schiff. No. 1,408,960; Mar. 7.
- Dental chair. G. D. Heck. No. 1,402,292; Jan. 3.
- Dental clamps. Instrument for handling. F. Wiggins. No. 1,438,975; Dec. 19.
- Dental clasp. H. Aderer. No. 1,417,879; May 30.
- Dental clasp. L. Engberg. No. 1,425,844; Aug. 15.
- Dental clasp. R. V. Williams. No. 1,412,224; Apr. 11.
- Dental clasps, Tooth protector for. G. A. Wiechert. No. 1,426,935; Aug. 22.
- Dental connection. H. J. Friedman. No. 1,413,847; Apr. 25.
- Dental crown remover. L. R. Siegel. No. 1,424,527; Aug. 1.
- Dental crown structure. E. J. Rose. No. 1,425,055; Aug. 8.
- Dental device. J. H. Kellogg. No. 1,408,889; Mar. 7.
- Dental device. D. W. Quilling. No. 1,439,022; Dec. 19.
- Dental-engine handpiece. W. R. Porter. No. 1,408,907; Mar. 7.
- Dental fastening for removable bridges and partial plates. W. L. Withers. No. 1,423,288; July 18.
- Dental film holder. W. O. Houser. No. 1,405,217; Jan. 31.
- Dental flask. J. A. and D. S. Gardner. No. 1,414,566; May 2.
- Dental flask. J. J. Mount. No. 1,417,938; May 30.
- Dental flask clamp. J. M. Filer and S. E. Rupe. No. 1,435,826; Nov. 14.
- Dental flask clamp and press. W. J. Clark and W. M. Romine. No. 1,412,843; Apr. 18.
- Dental flask holder. J. E. Gadois. No. 1,410,291; Mar. 21.
- Dental floss holder. T. A. Bailey. No. 1,415,765; May 9.
- Dental floss holder. G. C. Hennerlau. No. 1,417,518; May 30.
- Dental forceps, Adjustable fulcrum for veterinary. E. L. Watson. No. 1,403,581; Jan. 11.
- Dental furnace. T. M. Dudgeon. No. 1,438,023; Dec. 5.
- Dental handpiece. R. E. Graves. No. 1,427,286; Aug. 29.
- Dental implement. W. H. Ambuhl. No. 1,433,332; Oct. 24.
- Dental impression cup. J. K. Northwood. No. 1,411,505; Apr. 4.
- Dental impression flask or tray. F. E. Roach. (Reissue.) No. 15,265; Jan. 10.
- Dental impression tray. B. K. Bowen. No. 1,411,156; Mar. 28.
- Dental impression tray. V. M. Robinson. No. 1,406,492; Feb. 14.
- Dental impression tray. E. R. Smith. No. 1,422,488; July 11.
- Dental impressions, Apparatus and process for producing. H. J. Henderson. No. 1,437,844; Dec. 5.
- Dental impressions, Taking. C. H. Stubbins. No. 1,409,038; Mar. 7.
- Dental instrument. H. A. Adler. No. 1,424,707; Aug. 1.
- Dental instrument. R. A. Derbysaire. No. 1,435,902; Nov. 14.
- Dental instrument. G. Evans. Nos. 1,417,236-7; May 23.
- Dental instrument. O. H. Larsen. No. 1,408,520; Mar. 7.
- Dental instrument. J. S. Moseler. No. 1,402,525; Jan. 3.
- Dental instrument holder. T. F. Bates. No. 1,406,143; Feb. 7.
- Dental instruments, Handpiece for. G. M. Hollenback. No. 1,408,197; Feb. 28.
- Dental parallel-cavity former. H. L. Cruttenden. No. 1,407,840; Feb. 28.
- Dental pellet. B. G. Simmons. No. 1,438,064; Dec. 5.
- Dental plastic-filling compressor. T. H. Howe. No. 1,410,311; Mar. 21.
- Dental-plate anchorage. E. H. Lacc. No. 1,422,452; July 11.
- Dental pressure gauge. I. Ono. No. 1,427,496; Aug. 29.
- Dental purposes, &c., Nerve-extracting needle for. F. Hauptmeyer. No. 1,402,229; Jan. 3.
- Dental radiograph device. C. A. Le Master. No. 1,433,464; Oct. 24.
- Dental root or tooth dresser. I. Brown. No. 1,438,168; Dec. 12.
- Dental rubber. T. A. Swartz and E. F. Ottmyer. No. 1,413,071; Apr. 18.
- Dental scales. T. W. Onderdonk. No. 1,412,130; Apr. 11.
- Dental soldering stand. J. H. Dyblie. No. 1,435,456; Nov. 14.
- Dental surgery. L. A. Kiander. No. 1,408,006; Feb. 28.
- Dental surgical instrument. J. H. Taylor. Nos. 1,405,353-4; Jan. 31.
- Dental tool. F. L. MacDonald. No. 1,417,848; May 30.
- Dental tool. L. A. Young. No. 1,405,249; Jan. 31.
- Dental tool sharpener. R. H. Downing. No. 1,411,713; Apr. 4.
- Dental tray. W. N. Kidder. No. 1,402,298; Jan. 3.
- Dental vibratory apparatus. D. Bumgardner. No. 1,436,647; Nov. 28.
- Dentifrice. E. D. Resnik. No. 1,435,498; Nov. 14.
- Dentiffrical tablet. G. O. Burlew. No. 1,411,681; Apr. 4.
- Dentists boring machines, Angle plate and handle for. P. Kühn. No. 1,406,263; Feb. 14.
- Dentist's chip blower. L. Sobol and G. M. Marr. No. 1,416,241; May 16.
- Denture and application. A. Pimienta. No. 1,417,345; May 23.
- Denture reliner. T. W. Carey, jr. No. 1,424,618; Aug. 1.
- Dentures or artificial teeth in place, Appliance for retaining artificial. C. W. Gillespie. No. 1,408,582; Mar. 7.
- Deodorant and disinfectant compound. I. Ressler. No. 1,408,535; Mar. 7.
- Deodorizer. C. L. Will. No. 1,432,582; Oct. 17.
- Depitting machine, Date. C. S. Leonard. No. 1,421,505; July 4.
- Depositing machine. F. G. Salerno. No. 1,404,548; Jan. 24.
- Depositing machine. F. Westerman. No. 1,420,797; June 27.
- Depositing machine. F. Westerman. No. 1,434,175; Oct. 31.
- Depositing machine. F. Westerman. No. 1,438,280; Dec. 12.
- Depth and angle gauge, Combined. E. Barlow. No. 1,429,999; Sept. 26.
- Depth-indicating device. H. W. King. Nos. 1,419,387-8; June 13.
- Depth-indicating device. H. W. King. No. 1,423,118; July 18.
- Depth-indicating device. H. W. King. No. 1,423,223; July 18.
- Depth or liquid-level gauge. C. Abrahams. No. 1,428,576; Sept. 12.
- Derail. R. D. Gallagher. No. 1,439,086; Dec. 19.
- Derail. S. W. Hayes. No. 1,420,425; June 20.
- Derail, Hand-operated. S. W. Hayes. No. 1,420,426; June 20.
- Derail lock. H. B. Leedy. No. 1,439,371; Dec. 19.
- Derailer. J. H. Hammonre. No. 1,423,495; July 18.
- Derailer. J. Zawodny. No. 1,420,357; June 20.
- Derailing device. E. Vannatter. No. 1,431,066; Oct. 3.
- Derailing guard. F. Zeis. No. 1,422,021; July 4.
- Derailment brake attachment, Automatic. J. M. Scott. No. 1,412,141; Apr. 11.

- Derrick. J. L. Barnes. No. 1,428,314; Sept. 5.
 Derrick. J. G. Bolte. No. 1,412,159; Apr. 11.
 Derrick. P. E. Petersen. No. 1,432,726; Oct. 17.
 Derrick. G. F. Watts. No. 1,423,376; July 18.
 Derrick. Guy. J. R. Gill. No. 1,417,728; May 30.
 Derrick, Hoisting. A. W. Southwick. No. 1,431,337; Oct. 10.
 Derrick, Portable. L. F. Kloehn. No. 1,402,074; Jan. 3.
 Derrick, Portable farm. F. Walker. No. 1,434,463; Nov. 7.
 Deshiving and decorticating machine. R. R. Roberts. No. 1,405,004; Jan. 31.
 Desiccator. H. B. Faber and W. H. Harding, Jr. No. 1,419,664; June 13.
 Designs, Producing lustrous. F. Bond. No. 1,435,802; Nov. 14.
 Desilting device. J. E. Greenfield. No. 1,434,337; Oct. 31.
 Desk. C. T. Anderson. No. 1,414,247; Apr. 25.
 Desk. J. F. Niemuth. No. 1,430,465; Sept. 26.
 Desk accessory. G. E. Fox. No. 1,410,668; Mar. 28.
 Desk and chair. O. G. Henderson. No. 1,423,661; July 25.
 Desk and chair, Combined. J. P. Richards. No. 1,424,380; Aug. 1.
 Desk and seat construction. P. J. Jones. No. 1,402,501; Jan. 3.
 Desk attachment. H. F. Vaughan. No. 1,433,250; Oct. 24.
 Desk book support. E. L. Moore. No. 1,420,439; June 20.
 Desk, Chair. H. E. Kinchele. No. 1,426,297; Aug. 15.
 Desk-drawer lock. I. A. Stafford. No. 1,422,631; July 11.
 Desk, Flat-top roll-cover. R. E. Allwork. No. 1,421,357; July 4.
 Desk, Movable chair. W. A. Smiley. No. 1,416,132; May 16.
 Desk, Office. F. Bianchi y Reche. No. 1,421,564; July 4.
 Desk pad. G. E. Fox. No. 1,406,838; Feb. 14.
 Desk pad, Combination. I. E. Stamets. No. 1,412,318; Apr. 11.
 Desk, Portable writing. C. L. Leonard. No. 1,413,745; Apr. 25.
 Desk, Reading. W. L. Blair. No. 1,439,998; Dec. 26.
 Desk, School. D. F. Beaver. No. 1,420,404; June 20.
 Desk stand. E. A. Bohlman. No. 1,431,925; Oct. 17.
 Desk top. W. A. Smiley. No. 1,416,518; May 16.
 Desks and making and finishing the same, Tops for. A. McLeod. No. 1,406,270; Feb. 14.
 Desulphurizing iron ores, iron and steel, and coke used in the metallurgy of iron. W. L. Estabrooke and D. D. Jackson. No. 1,426,054; Aug. 15.
 Desuperheater. L. J. Schaeble. No. 1,420,344; June 20.
 Detachable handle. B. N. Donley. No. 1,423,406; July 18.
 Detachable support. J. B. O'Connor. No. 1,416,969; May 23.
 Detachable washer. S. S. Dubbs. No. 1,425,182; Aug. 8.
 Detachable wheel. J. V. Pugh. (Reissue.) No. 15,357; May 16.
 Detector: See—
 Gas detector. Vibration detector.
 Pressure detector.
 Detergent. O. M. Weigle. No. 1,407,502; Feb. 21.
 Detergent compound and making the same. F. H. Guernsey. No. 1,419,625; June 13.
 Detonating composition, Primary. W. M. Dehn. No. 1,404,687; Jan. 24.
 Detonating device. K. Hampel. No. 1,425,198; Aug. 8.
 Detonator. High-liquid-pressure. A. H. Crane. No. 1,408,565; Mar. 7.
 Detonator-securing device. S. B. N. Hill. No. 1,409,108; Mar. 7.
 Detonators, Composition for. R. M. Cook and B. Grotta. No. 1,406,977; Feb. 21.
 Detonators, Composition for. B. Grotta. No. 1,439,099; Dec. 19.
 Developing tank. P. W. Smith. No. 1,424,423; Aug. 1.
 Device for repose. C. F. Y. Behr. No. 1,409,212; Mar. 14.
 Dextrin, Apparatus for manufacturing. J. J. Merrill. No. 1,425,497; Aug. 8.
 Dextrine, Method of and apparatus for manufacturing. J. J. Merrill. No. 1,428,604; Sept. 12.
 Dialkyl-amino-ethyl derivatives of theobromine, Preparation of the. J. Altwegg. No. 1,414,333; May 2.
 Dialkylsulphates, Manufacture of. L. Lilienfeld. No. 1,427,215; Aug. 29.
 Dial lock. R. C. Lewis. No. 1,403,793; Jan. 17.
 Dial, Register. P. F. Quinlan, Jr. No. 1,424,518; Aug. 1.
 Dial train. O. Doll. No. 1,419,029; June 6.
 Diamagnetic minerals, Process and apparatus for concentration and separation of. W. C. Hall. No. 1,416,634; May 16.
 Diaminoacridine, Manufacture of. R. Meyer. No. 1,410,494; Mar. 21.
 Diamond grinder. F. Ries. No. 1,415,118; May 9.
 Diaper. C. Le Moine. No. 1,431,315; Oct. 10.
 Diaphragm. A. F. R. Cotton. No. 1,417,718; May 30.
 Diaphragm. A. F. Nathan. No. 1,413,234; Apr. 18.
 Diaphragm attachment. J. E. Jones. No. 1,415,360; May 9.
 Diaphragm, Iris. R. Klein. No. 1,423,224; July 18.
 Diaphragm tuning. E. C. Wood. No. 1,429,664; Sept. 19.
 Diapositives, Printing apparatus for the production of. S. de Procoudine-Gorsky. No. 1,413,873; Apr. 25.
 Diapositives, Production of colored. S. de Procoudine-Gorsky. No. 1,435,283; Nov. 14.
 Dichlorethylene, Manufacture of. F. Kaufner. No. 1,419,969; June 20.
 Dicyandiamide, Making. H. C. Hetherington and J. M. Braham. No. 1,423,799; July 25.
 Die: See—
 Forming die. Thread-cutting die.
 Drill-bit die. Thread-rolling die.
 Sectional die. Wiredrawing die.
 Shoe-sole die.
 Die. J. F. Beans. No. 1,436,006; Nov. 21.
 Die. H. Bellon. No. 1,429,219; Sept. 19.
 Die. M. L. Kaufman. No. 1,419,056; June 6.
 Die and making same, Diamond. A. Simons. No. 1,420,223; June 20.
 Die and seal press. D. W. Emslie. No. 1,434,598; Nov. 7.
 Die-casting apparatus. C. H. Duckworth. No. 1,416,455; May 16.
 Die-casting apparatus. J. Kralund. No. 1,416,476; May 16.
 Die-casting machine. G. E. Rohmer. No. 1,403,266; Jan. 10.
 Die-casting process. C. Pack. No. 1,416,412; May 16.
 Die cushion. R. W. Glasner. No. 1,434,949; Nov. 7.
 Die-forming machine. M. H. Dunbar. No. 1,437,407; Dec. 5.
 Die machine, Multiple. H. H. Bunker. No. 1,438,295; Dec. 12.
 Die, Numbering, forming, and cutting. A. Premo. No. 1,407,769; Feb. 28.
 Die press. F. Coates. No. 1,415,018; May 9.
 Die press, Automatic. F. Coates. No. 1,439,607; Dec. 19.
 Die presses, Ejecting mechanism for. W. H. Needham. No. 1,405,425; Feb. 7.
 Die punch. F. J. Gardner. No. 1,411,913; Apr. 4.
 Die rolls, Automatic die-routing duplicator for. W. B. Cowles. No. 1,434,683; Nov. 7.
 Die shaper. E. Bossert. No. 1,434,082; Oct. 31.
 Die, Sectional. G. H. Daniels. No. 1,402,284; Jan. 3.
 Die structure. E. J. L. Granlow. No. 1,428,777; Sept. 12.
 Die structure. J. A. Luther. No. 1,428,174; Sept. 5.
 Die, Water-cooled. G. H. Davis and C. T. Bowman. No. 1,407,130; Feb. 21.
 Diestock. J. Konigsberg. No. 1,420,847; June 27.
 Diestock. J. Konigsberg. No. 1,423,945; July 25.
 Diestock. F. J. Martin. No. 1,419,939; June 20.
 Diestock. O. Nelson. No. 1,403,519; Jan. 17.
 Diestock. I. W. Nonneman. Nos. 1,404,996-7; Jan. 31.
 Diestock. I. W. Nonneman. No. 1,418,323; June 6.
 Diestock. I. W. Nonneman. No. 1,422,222; July 11.
 Diestock, Adjustable. D. F. Roeder. No. 1,404,546; Jan. 24.
 Diestock and tap wrench. J. H. Fullmer. No. 1,407,058; Feb. 21.
 Diestock lubricator. W. M. Lennan. No. 1,410,329; Mar. 21.
 Diestock-rolling handle. W. C. Messner. No. 1,404,784; Jan. 31.
 Dies and counter dies for swaging seamless gold crowns, Producing combined. E. Ono. No. 1,420,940; June 27.
 Dies, Electrically-heated branding. A. H. Onstad. No. 1,413,053; Apr. 18.
 Dies for drawing rods, wires, etc., Holder for. J. P. Winters. No. 1,412,730; Apr. 11.
 Dies for making return bends. G. E. Ryder. No. 1,417,944; May 30.
 Dies for punching small metal parts. V. Puc. No. 1,415,477; May 9.
 Dies, Making cutting. M. E. Fernald. No. 1,403,238; Jan. 10.
 Dies, Making diamond. A. Simons. No. 1,420,224; June 20.
 Dies, Making wood-base-cutting. J. F. Murphy. No. 1,402,526; Jan. 3.
 Dies, Means for sinking. T. M. Rees. No. 1,435,552; Nov. 14.
 Dies, Mechanism for lapping diamond. H. Blount. No. 1,428,209; Sept. 5.
 Dies, Upsetting. W. L. Clouse. No. 1,427,521; Aug. 29.
 Dielectric objects, Testing machine for. E. A. Pigeon. No. 1,407,887; Feb. 28.
 Differential. C. C. Crispen. No. 1,440,341; Dec. 26.
 Differential. P. A. Custer. No. 1,406,446; Feb. 14.
 Differential. J. Ross. No. 1,421,834; July 4.
 Differential drive mechanism. W. H. Harris. No. 1,434,778; Nov. 7.
 Differential flotation process. B. Stevens. No. 1,429,544; Sept. 19.
 Differential flotation separator. W. H. Peck. No. 1,420,139; June 20.
 Differential locking mechanism. R. Gerber. No. 1,437,510; Dec. 5.
 Differential locking mechanism. M. F. Hintze. No. 1,439,239; Dec. 19.
 Differential mechanism. F. V. Elbertz. No. 1,405,986; Feb. 7.
 Differential mechanism. I. Hupp. No. 1,420,706; June 27.
 Differential mechanism. G. C. Jett. No. 1,423,941; July 25.
 Differential mechanism. J. D. Johnson. No. 1,425,970; Aug. 15.
 Differential mechanism. F. M. Lewis. No. 1,430,744; Oct. 3.

Alphabetical list of inventions—Continued.

- Diffracting screen. C. P. Marshall and J. W. Bragger. No. 1,433,637; Oct. 31.
- Digester pressure lock. J. K. Ruths. No. 1,419,763; June 13.
- Digger. See—
- | | |
|---------------------------|------------------|
| Beet digger. | Peanut digger. |
| Grass and thistle digger. | Posthole digger. |
| Grass digger. | Potato digger. |
- Digging and loading machine. W. H. Schacht. No. 1,431,491; Oct. 10.
- Digging implement. J. Szabo. No. 1,427,865; Sept. 5.
- Digging machine. G. B. Campbell. No. 1,432,837; Oct. 24.
- Digging machine. G. A. Vaughn and C. E. Stahl. No. 1,418,109; May 30.
- Digging machine, Rotary. F. Marciandi. No. 1,433,961; Oct. 31.
- Digging machine, Trench-. W. G. and O. R. Humphreys. No. 1,419,381; June 13.
- Dihydroisquinoline, Derivatives of. M. Hartman and H. Kagi. No. 1,437,802; Dec. 5.
- Dilator. V. D. Schaff. No. 1,413,789; Apr. 25.
- Dilator combination. P. Nick. No. 1,428,653; Sept. 12.
- Dimethylxanthine, Manufacture of 1-allyl-3,7-. E. Preiswerk. No. 1,415,700; May 9.
- Dimmer. E. A. Nordstedt. No. 1,434,404; Nov. 7.
- Dimmer. J. M. Waddell. No. 1,422,393; July 11.
- Dining table, Removable-petal. J. T. Viles. No. 1,406,116; Feb. 7.
- Dinitroglycol and its homologues, Preparation of. H. Oehme. No. 1,426,313; Aug. 15.
- Diolefines and polymerization products, Manufacture of. H. Plauson. No. 1,436,819; Nov. 28.
- Diphenylamine, Manufacturing. A. P. Tanberg. No. 1,422,494; July 11.
- Diphenylguanidine, Making. M. L. Weiss. No. 1,422,506; July 11.
- Dipper, Cream. F. S. Driggs. No. 1,426,968; Aug. 22.
- Dipper teeth, Base for. J. F. Devlin. No. 1,440,212; Dec. 26.
- Dipper tooth. G. R. Hanks and R. Somerville. No. 1,419,047; June 6.
- Dipper-tooth point with hollow surfaces. W. S. McKee. No. 1,427,610; Aug. 29.
- Dipper tooth, Reversible. L. W. Van Buskirk and P. W. Porter. No. 1,438,001; Dec. 5.
- Dipping device. I. Anderson. No. 1,436,560; Nov. 21.
- Dipping machine. F. W. McDonald. No. 1,404,309; Jan. 24.
- Dipping machine. T. Stark. No. 1,415,959; May 16.
- Direction-indicating device. G. Matsushita. No. 1,404,991; Jan. 31.
- Direction-indicating signal. J. A. Glancey. No. 1,424,813; Aug. 8.
- Direction indicator. M. de Cosmos. No. 1,432,539; Oct. 17.
- Direction indicator. W. F. Freeman and V. I. Cilley. No. 1,422,955; July 18.
- Direction indicator. J. E. Kelsey. No. 1,417,251; May 23.
- Direction indicator. A. F. Lamb. No. 1,402,623; Jan. 3.
- Direction indicator. S. Nakasora. No. 1,424,513; Aug. 1.
- Direction indicator. P. Niewiarowski and T. Halagarda. No. 1,409,883; Mar. 14.
- Direction indicator. W. J. Schafer. No. 1,421,727; July 4.
- Direction indicator. D. W. Scott. No. 1,406,501; Feb. 14.
- Direction indicator. J. W. Wheeler, jr. No. 1,423,588; July 25.
- Direction indicator. J. A. White. No. 1,420,353; June 20.
- Direction indicator, Vehicle. O. S. Jones. No. 1,437,248; Nov. 28.
- Direction in space, Apparatus for stabilizing a. W. Akemann. No. 1,435,681; Nov. 14.
- Direction signal. I. R. Johnson. No. 1,431,811; Oct. 10.
- Direction signal. W. R. Tonkin. No. 1,418,036; May 30.
- Directionometer. A. W. Coleman. No. 1,415,147; May 9.
- Directory. F. W. Bacon. No. 1,418,269; June 6.
- Directory. R. Gatiloff. No. 1,409,894; Mar. 14.
- Dirigible. C. J. Lynde. No. 1,430,393; Sept. 26.
- Dirigible-light projector. M. P. Nichols. No. 1,416,119; May 16.
- Dirigible spotlight. W. W. Boulineau. No. 1,415,982; May 16.
- Dirigible spotlight. M. F. Wielage. No. 1,434,468; Nov. 7.
- Dirigibles, Mooring means for. E. S. Ullmann. No. 1,413,948; Apr. 25.
- Disconnecting device. J. P. Arndt. No. 1,422,248; July 11.
- Dish basket. J. Vaudreuil. No. 1,433,759; Oct. 31.
- Dish-drying rack. G. A. Stoffel. No. 1,406,773; Feb. 14.
- Dish handle. R. Hubachek. No. 1,421,235; June 27.
- Dishpan. E. G. Taylor. No. 1,423,548; July 25.
- Dishpans, Sink attachment for holding. J. W. McHam. No. 1,436,972; Nov. 28.
- Dishwasher. G. W. Backus. No. 1,414,928; May 2.
- Dishwasher. M. Baker. No. 1,403,999; Jan. 17.
- Dishwasher. F. H. Dunn. No. 1,429,069; Sept. 12.
- Dishwasher. H. A. Kaufmann. No. 1,439,823; Dec. 26.
- Dishwasher. F. R. Perkins. No. 1,416,744; May 23.
- Dishwashing apparatus. D. M. Connor. No. 1,435,212; Nov. 14.
- Dishwashing machine. G. C. Barron. No. 1,438,680; Dec. 12.
- Dishwashing machine. G. S. Blakeslee. No. 1,404,706; Jan. 24.
- Dishwashing machine. F. L. Davidson. No. 1,426,260; Aug. 15.
- Dishwashing machine. C. F. Doble. No. 1,437,403; Dec. 5.
- Dishwashing machine. A. M. Dow. No. 1,420,418; June 20.
- Dishwashing machine. A. M. Dow. No. 1,432,163; Oct. 17.
- Dishwashing machine. J. Fassio. No. 1,414,634; May 2.
- Dishwashing machine. J. E. Gagen. No. 1,417,162; May 23.
- Dishwashing machine. W. J. Lynch. No. 1,406,465; Feb. 14.
- Dishwashing machine. J. A. Masonick. No. 1,435,172; Nov. 14.
- Dishwashing machine. F. Monte. (Reissue.) No. 15,264; Jan. 10.
- Dishwashing machine. C. Olson. No. 1,421,543; July 4.
- Dishwashing machine. H. V. V. Putman. No. 1,409,571; Mar. 14.
- Dishwashing machine. S. F. Wilson. No. 1,406,599; Feb. 14.
- Dishwashing machine. C. E. Wing. No. 1,405,243; Jan. 31.
- Dishwashing machine. M. M. Utterback. No. 1,414,058; Apr. 25.
- Dishwashing machines, Cullinary basket for. W. R. Walker. No. 1,426,931; Aug. 22.
- Dishwashing machines, Reaction spraying mechanism for. F. D. Clinton. No. 1,408,077; Feb. 28.
- Disinfecting device. O. C. Fontaine. No. 1,439,881; Dec. 26.
- Disinfecting sanitary pans, Means for. H. Bradley. No. 1,421,348; June 27.
- Disinfectants, Device for volatilizing. V. Wintsch, Jr. No. 1,413,448; Apr. 18.
- Disintegrating machine. F. von Osten. No. 1,425,920; Aug. 15.
- Disk and like grinding mill. J. R. Torrance. No. 1,405,878; Feb. 7.
- Disk and screw packer. P. H. Mack. No. 1,436,274; Nov. 21.
- Disk automobile wheel. W. E. Williams. No. 1,405,646; Feb. 7.
- Disk-forming machine. C. L. Heisler. No. 1,430,989; Oct. 3.
- Disk, Implement pulverizer. R. H. Griffith. No. 1,405,581; Feb. 7.
- Disk mill. S. Steinmetz. No. 1,429,258; Sept. 19.
- Disk records, Holder for. D. S. Cox. No. 1,403,939; Jan. 17.
- Disk sharpener. T. Nash. No. 1,420,568; June 20.
- Disk, Universal putting. C. B. Cory. No. 1,417,458; May 23.
- Disk wheel. R. P. Allison. Nos. 1,428,741-2; Sept. 12.
- Disk wheel. D. H. Bellamore. No. 1,410,986; Mar. 28.
- Disk wheel. E. R. Draver. No. 1,411,423; Apr. 4.
- Disk wheel. E. R. Draver. No. 1,417,233; May 23.
- Disk wheel. G. H. Forsyth. No. 1,420,651; June 27.
- Disk wheel. G. H. Forsyth. No. 1,427,366; Aug. 29.
- Disk wheel. G. H. Forsyth. No. 1,439,700; Dec. 26.
- Disk wheel. G. E. Harvey. No. 1,420,097; June 20.
- Disk wheel. G. H. Palmer. No. 1,420,337; June 20.
- Disk wheel. A. L. Putnam. No. 1,414,375; May 2.
- Disk wheel. P. S. Whiting. No. 1,412,301; Apr. 11.
- Disk wheel. W. E. Williams. No. 1,405,648; Feb. 7.
- Disk wheel. J. F. Wilmot. No. 1,423,060; July 18.
- Disk-wheel construction. G. E. Harvey. No. 1,427,209; Aug. 29.
- Disk-wheel construction. W. E. Williams. No. 1,402,031; Jan. 3.
- Disk wheel, Demountable. W. E. Williams. No. 1,410,046; Mar. 21.
- Disk wheel, Hub demountable double. W. E. Williams. No. 1,425,926; Aug. 15.
- Disk wheel, Metal. J. A. Charter. No. 1,423,598; July 25.
- Disk wheel, Metal. W. E. Williams. No. 1,402,029; Jan. 3.
- Disk wheel, Metal. W. E. Williams. No. 1,427,927; Sept. 5.
- Disk wheel, Plywood. A. Elmendorf. No. 1,413,906; Apr. 25.
- Disk wheel, Reinforced. W. E. Williams. No. 1,405,647; Feb. 7.
- Disk wheel, Reinforced. W. E. Williams. No. 1,439,460; Dec. 19.
- Disk wheel, Wood. E. C. Sendelbach. No. 1,437,948; Dec. 5.
- Disks from sheet material, Machine for cutting. C. J. Randall. No. 1,431,541; Oct. 10.
- Disks, Machine for blanking and assembling. F. C. Nickol. No. 1,426,760; Aug. 22.
- Disks, System for making and handling cork. C. E. Manus. No. 1,432,197; Oct. 17.
- Dispenser. E. Bruder. No. 1,411,477; Apr. 4.
- Dispenser. E. Bruder. No. 1,415,218; May 9.
- Dispenser. G. Parker and C. J. Daraban. No. 1,421,300; June 27.
- Dispenser of liquids. W. J. Driscoll. No. 1,409,159; Mar. 14.
- Dispensing and display device. H. J. Meyer. No. 1,402,635; Jan. 3.

Alphabetical list of inventions—Continued.

- Dispensing apparatus. G. P. Altenberg. Nos. 1,412,329-30; Apr. 11.
- Dispensing apparatus. E. P. Baker. No. 1,422,913; July 18.
- Dispensing apparatus. J. Chandler. No. 1,420,080; June 20.
- Dispensing apparatus. D. D. Clark. No. 1,425,837; Aug. 15.
- Dispensing apparatus. P. H. Horwitt. No. 1,434,057; Oct. 31.
- Dispensing apparatus. W. T. Hunter. No. 1,439,819; Dec. 26.
- Dispensing apparatus. W. J. Else. No. 1,414,777; May 2.
- Dispensing apparatus. H. C. Litchfield. No. 1,416,219; May 16.
- Dispensing can. A. W. Murray. No. 1,404,883; Jan. 31.
- Dispensing can. J. B. Rhodes. Nos. 1,403,636-7; Jan. 17.
- Dispensing container. R. J. Bush. No. 1,405,753; Feb. 7.
- Dispensing device. A. Alexay. No. 1,423,063; July 18.
- Dispensing device. R. S. Alline. No. 1,438,740; Dec. 12.
- Dispensing device. J. Dobis. No. 1,417,042; May 23.
- Dispensing device. J. F. Franke. No. 1,405,197; Jan. 31.
- Dispensing device. J. E. Hawley and A. W. Capps. No. 1,421,777; July 4.
- Dispensing device. J. M. James. No. 1,409,003; Mar. 7.
- Dispensing device. E. and G. Kent. No. 1,422,768; July 11.
- Dispensing device. J. F. Lewis. No. 1,434,061; Oct. 31.
- Dispensing device. L. W. Tiffany. No. 1,405,357; Jan. 31.
- Dispensing device. L. W. Tiffany. No. 1,406,781; Feb. 14.
- Dispensing device. H. J. Willems. No. 1,433,768; Oct. 31.
- Dispensing device for containers. E. H. Berry. No. 1,429,561; Sept. 19.
- Dispensing holder. F. F. Prihoda. No. 1,425,416; Aug. 8.
- Dispensing machine. S. Hanson. No. 1,431,582; Oct. 10.
- Dispensing machine. J. E. Kenkel. No. 1,428,439; Sept. 5.
- Dispensing machine. R. H. Little. No. 1,413,340; Apr. 18.
- Dispensing machine. P. D. Parsons. No. 1,424,772; Aug. 8.
- Dispensing machine. J. F. Walsh. No. 1,412,727; Apr. 11.
- Dispensing-machine supply. H. H. Lamb. No. 1,429,511; Sept. 19.
- Dispensing receptacle. R. Smith. No. 1,411,812; Apr. 4.
- Display and delivering cabinet, Article. E. S. Wood. No. 1,426,844; Aug. 22.
- Display and vending cabinet, Combination. T. D. Taylor. No. 1,414,160; Apr. 25.
- Display apparatus. E. L. Gale. No. 1,424,350; Aug. 1.
- Display apparatus, Changing-view. H. M. Russell. No. 1,423,262; July 18.
- Display apparatus, Window. J. Kelly. No. 1,435,856; Nov. 14.
- Display bin. F. F. Wear. No. 1,420,069; June 20.
- Display book. M. Schlosser. No. 1,421,574; July 4.
- Display box. J. A. Bloch. No. 1,416,598; May 16.
- Display box. W. F. Harvey. No. 1,416,465; May 16.
- Display box. M. A. Hirsch. No. 1,418,798; June 6.
- Display box. F. X. List. No. 1,408,814; Mar. 7.
- Display box. F. X. List. No. 1,429,442; Sept. 19.
- Display box. A. L. Young. No. 1,431,133; Oct. 3.
- Display box, Folding. R. S. Allan. No. 1,410,869; Mar. 28.
- Display cabinet. G. Pivar. No. 1,428,857; Sept. 12.
- Display cabinet, Cigarette-. P. Malacos. No. 1,435,935; Nov. 21.
- Display card. C. B. Goes. No. 1,430,735; Oct. 3.
- Display card and the like. G. T. and R. N. Humble. No. 1,426,845; Aug. 22.
- Display card, Individual-package. L. H. Junker. No. 1,423,783; Sept. 12.
- Display-card-rack section. F. D. Jones. No. 1,434,247; Oct. 31.
- Display case. W. P. Morton. No. 1,430,921; Oct. 3.
- Display case. G. R. Poorman. No. 1,411,890; Apr. 4.
- Display case for small articles. N. H. Fairweather. No. 1,417,814; May 30.
- Display case, Meat-. O. J. Lasher. No. 1,426,747; Aug. 22.
- Display container. H. B. Beatty and C. L. Johnson. No. 1,421,384; July 4.
- Display container. R. A. Lambert. No. 1,410,763; Mar. 28.
- Display container, Merchandise. W. O. Niceley. No. 1,427,839; Sept. 5.
- Display device. I. Chernock. No. 1,434,479; Nov. 7.
- Display device. T. C. De Lisle. No. 1,431,637; Oct. 10.
- Display device. A. Dietsche, Jr. No. 1,412,846; Apr. 18.
- Display device. A. Dietsche, Jr. No. 1,432,056; Oct. 17.
- Display device. G. M. Franks. No. 1,435,937; July 18.
- Display device. A. J. Ganz. No. 1,428,226; Sept. 5.
- Display device. T. C. Howe. No. 1,425,259; Aug. 8.
- Display device. P. J. Messer. No. 1,431,019; Oct. 3.
- Display device. P. J. Messer. No. 1,435,937; Nov. 21.
- Display device. J. L. Michalski. No. 1,407,874; Feb. 28.
- Display device. S. Minutoli. No. 1,413,483; Apr. 18.
- Display device. E. M. Pitts. No. 1,428,058; Sept. 5.
- Display device. M. Prehn. No. 1,535,658; Nov. 14.
- Nov. 21.
- Display device. D. B. Samuels. No. 1,429,458; Sept. 19.
- Display device. J. Scherotto. No. 1,434,155; Oct. 31.
- Display device and blank. M. V. Miller. No. 1,419,638; June 13.
- Display device and blank. M. V. Miller. No. 1,438,963; Dec. 19.
- Display device for walking figures. I. A. Rommer. Nos. 1,439,640-1; Dec. 19.
- Display device, Merchandise-. D. Wiener. No. 1,436,330; Oct. 31.
- Display doll and dress outfit. G. Baum. No. 1,434,279; Oct. 31.
- Display fixture. G. H. Crawford. No. 1,405,569; Feb. 7.
- Display fixture. S. Goldberg. Nos. 1,432,286-7; Oct. 17.
- Display fixture. M. D. Mendle. No. 1,430,666; Oct. 3.
- Display fixture, Revolving. C. N. Cahusac. No. 1,432,277; Oct. 17.
- Display holder. R. M. Robinson and H. M. MacDonald. No. 1,404,164; Jan. 17.
- Display machine. O. F. Baltzley. Nos. 1,409,516-17; Mar. 14.
- Display or advertising device. W. G. Shelton. No. 1,418,740; June 6.
- Display panel. W. R. Minnick. No. 1,423,003; July 18.
- Display rack. E. Allen. Nos. 1,411,553-4; Apr. 4.
- Display rack. J. Carr. No. 1,404,270; Jan. 24.
- Display rack. L. Gentile. No. 1,408,187; Feb. 28.
- Display rack. J. F. Gorman. No. 1,423,417; July 18.
- Display rack. A. Hamilton. No. 1,418,563; June 6.
- Display rack. H. Harsh. No. 1,436,250; Nov. 21.
- Display rack. J. M. Perry. No. 1,424,587; Aug. 1.
- Display rack. J. Romm. No. 1,439,841; Dec. 26.
- Display rack. G. A. Taylor. No. 1,423,585; July 25.
- Display rack. E. B. Weston. Nos. 1,427,248-9; Aug. 29.
- Display rack. E. B. Weston. No. 1,428,730; Sept. 12.
- Display rail. J. Nelson. No. 1,425,211; Aug. 8.
- Display screens and the like, Construction of. L. H. MacOrquodale. No. 1,432,404; Oct. 17.
- Display signs, Circuit control for electric. L. R. Oakes. No. 1,408,307; Feb. 28.
- Display stand. W. J. Anderson. No. 1,433,978; Oct. 31.
- Display stand. F. C. Bloom. No. 1,416,935; May 23.
- Display stand. H. P. Brace. No. 1,415,782; May 9.
- Display stand. G. J. Coughlin. No. 1,419,616; June 13.
- Display stand. A. E. and S. Davis. No. 1,408,079; Feb. 28.
- Display stand. W. C. Dickmeyer. No. 1,415,224; May 9.
- Display stand. T. Dinsen and J. J. Kricker. No. 1,426,156; Aug. 15.
- Display stand. C. Fischer. No. 1,437,837; Dec. 5.
- Display stand. H. Horsfall. No. 1,404,439; Jan. 24.
- Display stand. C. B. Kellogg. No. 1,411,281; Apr. 4.
- Display stand. S. Kislovitz. No. 1,411,109; Mar. 28.
- Display stand. J. Kudner. No. 1,423,226; July 18.
- Display stand. E. C. Lawrence. No. 1,406,464; Feb. 14.
- Display stand. E. E. Randall. No. 1,406,893; Feb. 14.
- Display stand. J. A. Wilson. No. 1,437,579; Dec. 5.
- Display stand, Buffer-. G. A. Lyon. No. 1,436,991; Nov. 28.
- Display stand, Collapsible. G. M. Franks. No. 1,425,846; Aug. 15.
- Display stand for discharge certificates. C. L. Householder. No. 1,418,261; May 30.
- Display stand for ribbons and the like. J. G. Johnston, Jr. No. 1,415,242; May 9.
- Display stand, Glass. I. Ambler. No. 1,438,805; Dec. 12.
- Display stand, Necktie-. R. C. Smith. No. 1,414,902; May 2.
- Display vehicle. G. Mensoian. No. 1,418,596; June 6.
- Displaying advertisements, Device for. E. A. Thorne. No. 1,434,236; Oct. 31.
- Displaying and advertising purposes, Illuminated apparatus for. W. J. Beville. No. 1,419,899; June 13.
- Displaying device. M. Jones. No. 1,430,509; Sept. 26.
- Displaying device, Background-. H. M. Wade. No. 1,410,085; Mar. 21.
- Displaying stand for garments, Portable. H. C. Short. No. 1,426,225; Aug. 15.
- Disposal can. C. H. Felten. No. 1,427,525; Aug. 29.
- Disruptive conduction, Apparatus for treating articles by. F. S. Smith. (Reissue.) No. 15,351; May 9.
- Distillation, Apparatus for dry. N. Statham. No. 1,411,529; Apr. 4.
- Distillation, Destructive. W. M. Duncan. No. 1,407,017; Feb. 21.
- Distillation, Low-temperature. A. C. Michie and E. G. Weeks. No. 1,423,134; July 18.
- Distillation of material carrying a percentage of volatile matter. G. M. Johns. No. 1,423,527; July 25.
- Distillation, Pressure. E. M. Clark. No. 1,405,286; Jan. 31.
- Distillation process. H. A. Hills. No. 1,414,465; May 2.
- Distillation process. W. K. Lewis and W. Green. No. 1,437,980; Dec. 5.
- Distillation process and product thereof. J. M. Weiss. No. 1,418,893; June 6.
- Distilling. E. J. Winter. No. 1,427,885; Sept. 5.
- Distilling. E. J. Winter. No. 1,427,888; Sept. 5.
- Distilling and rectifying column. E. A. Barbet. No. 1,427,430; Aug. 29.
- Distilling apparatus. P. Anders and P. M. Ginnings. No. 1,418,691; June 6.
- Distilling apparatus. E. J. Winter. Nos. 1,427,886-7; Sept. 5.
- Distilling apparatus, Fractional-. E. A. R. Chenard. No. 1,407,380; Feb. 21.
- Distilling carbonaceous material. W. Thomas. No. 1,422,496; July 11.
- Distilling column. F. E. Lichtenthaler. No. 1,424,173; Aug. 1.

Alphabetical list of inventions—Continued.

- Distilling process. F. Pollak. No. 1,422,475; July 11.
 Distilling, Process and apparatus for. J. T. Fenton. No. 1,424,998; Aug. 8.
 Distilling substances, Apparatus for. W. M. Duncan. No. 1,407,018; Feb. 21.
 Distributing apparatus. T. Lund. No. 1,439,013; Dec. 19.
 Distributing materials, Apparatus for. A. N. Machicol. No. 1,405,731; Feb. 7.
 Distributor. J. F. Armathes. No. 1,403,827; Jan. 17.
 Distributor and means for mounting same. L. J. Werner. No. 1,411,073; Mar. 28.
 Ditching device. J. C. Starling. No. 1,416,991; May 23.
 Ditching machine. A. Cameron. No. 1,424,151; Aug. 1.
 Ditching machine. W. W. Harstough. No. 1,411,999; Apr. 4.
 Ditching machine. M. Paul. No. 1,428,055; Sept. 5.
 Ditching machine. J. Sommer. No. 1,420,876; June 27.
 Diver's suit. V. Campos. No. 1,414,174; Apr. 25.
 Diving apparatus. J. C. Eckert, jr. No. 1,423,923; July 25.
 Diving apparatus, Centrifugal. J. C. Freeze. No. 1,405,996; Feb. 7.
 Diving bell. M. A. White. No. 1,421,332; June 27.
 Diving dress. M. C. Schweinert. No. 1,430,194; Sept. 26.
 Diving suit. E. J. Valeur. No. 1,420,640; June 27.
 Divider. H. J. Feindt. No. 1,438,173; Dec. 12.
 Divider. F. H. Sharpe. No. 1,416,987; May 23.
 Divider and reinforcing strip. S. H. Calkins. No. 1,434,281; Oct. 31.
 Dividers. E. H. Allie. No. 1,436,848; Nov. 28.
 Dividers. O. Force. No. 1,426,269; Aug. 15.
 Dock, Dry. A. J. Brown and J. J. Davies, Jr. No. 1,410,243; Mar. 21.
 Dock, Floating. M. Müller. No. 1,413,603; Apr. 25.
 Dock, Floating dry. G. C. Engstrand. No. 1,412,852; Apr. 18.
 Documents capable of detection, Means for rendering the alteration of. V. E. Goodman. No. 1,417,820; May 30.
 Doffing apparatus. E. R. Alderman. No. 1,419,192; June 13.
 Dog driver. H. Carlson. No. 1,405,898; Feb. 7.
 Dog-operating device. E. A. Bartecki. No. 1,439,992; Dec. 26.
 Dog-racing amusement. O. P. Smith. No. 1,410,842; Mar. 28.
 Doll. E. Barry. No. 1,428,677; Sept. 12.
 Doll. P. G. Dallwig. Nos. 1,413,263-4; Apr. 18.
 Doll. W. P. Dun Lany. No. 1,417,810; May 30.
 Doll. G. E. Groom. No. 1,435,465; Nov. 14.
 Doll. K. M. Hansen. No. 1,407,270; Feb. 21.
 Doll. A. H. Hornsby. No. 1,417,915; May 30.
 Doll. M. Hubble. No. 1,434,210; Oct. 31.
 Doll. N. Kearney. No. 1,425,974; Aug. 15.
 Doll. J. H. Langrock. No. 1,433,463; Oct. 24.
 Doll. M. Overholt. No. 1,431,482; Oct. 10.
 Doll. A. M. Sheldon. No. 1,439,846; Dec. 26.
 Doll, Animated. A. Petrow. No. 1,432,205; Oct. 17.
 Doll, Grotesque. F. Vathé. No. 1,435,267; Nov. 14.
 Doll head. W. H. Mitchell. No. 1,414,968; May 2.
 Doll, Hula. D. Zaiden. No. 1,423,383; July 18.
 Doll, Mechanical. S. Haskell. No. 1,415,344; May 9.
 Doll, Mechanical geisha. D. Zaiden. No. 1,411,825; Apr. 4.
 Doll, Movie. L. M. Slocum. No. 1,432,628; Oct. 17.
 Doll, Shimmy. S. Haskell. No. 1,422,855; July 18.
 Doll, Sleeping. F. Reinhardt. No. 1,412,670; Apr. 11.
 Doll structure. J. W. Felker. No. 1,402,345; Jan. 3.
 Doll support. B. H. Scottford. No. 1,407,584; Feb. 21.
 Doll, Walking. F. Evans. No. 1,403,900; Jan. 17.
 Doll, Walking. U. Ito. No. 1,406,023; Feb. 7.
 Doll, Walking. D. Zaiden. No. 1,423,382; July 18.
 Doll, Washable. C. V. Havens. No. 1,435,159; Nov. 14.
 Dolls, Artificial eyes for. S. Marcus. No. 1,433,899; Oct. 31.
 Dolls, display figures and the like, Artificial eyes for. S. Marcus. No. 1,433,901; Oct. 31.
 Dolls, Eye set for. S. Marcus. No. 1,433,900; Oct. 31.
 Dolls' eyes, Tilting mechanism for. W. G. Kellow. No. 1,404,970; Jan. 31.
 Doll's head with movable eyes. M. H. Slater. No. 1,414,901; May 2.
 Dolls, toy animals, and the like, Eyes of. T. Mathews. No. 1,430,093; Sept. 26.
 Donkey engine. T. Martin. No. 1,435,722; Nov. 14.
 Door. A. L. Cresci. No. 1,429,063; Sept. 12.
 Door. C. W. Ealy. No. 1,415,815; May 9.
 Door. W. H. Emerick. No. 1,405,507; Feb. 7.
 Door. O. C. Johnson. No. 1,412,871; Apr. 18.
 Door. J. D. Koher. No. 1,429,509; Sept. 19.
 Door. A. E. Norris and J. Ecks. No. 1,406,214; Feb. 14.
 Door. J. E. Ogden and J. B. Howell. No. 1,431,174; Oct. 10.
 Door. G. A. Sheffield. No. 1,437,205; Nov. 28.
 Door. S. Taylor. No. 1,426,424; Aug. 22.
 Door and hinge construction. J. Freyberg and L. F. Wubbolding. No. 1,416,812; May 23.
 Door and hoisting mechanism therefor. A. T. Prescott. No. 1,431,181; Oct. 10.
 Door and operating mechanism therefor. O. L. Dautrick. No. 1,408,174; Feb. 28.
 Door and shutter, Folding. M. Bretos y Claveria. No. 1,405,758; Feb. 7.
 Door and shutter, Folding. M. Bretos y Claveria. No. 1,408,076; Feb. 28.
 Door and window catch. J. H. Tudor. No. 1,411,819; Apr. 4.
 Door and window lock. R. F. A. Meyer. No. 1,426,896; Aug. 22.
 Door, Automatically-operated garage. F. B. Newell. No. 1,436,048; Nov. 21.
 Door bell and knob. T. M. Kwasnieski. No. 1,402,514; Jan. 3.
 Door bolt. P. H. Ferrier, Jr. No. 1,418,143; May 30.
 Door brace and locking mechanism, Combined. A. Campbell. No. 1,437,090; Nov. 28.
 Door buffer. S. B. Atwood. No. 1,403,665; Jan. 17.
 Door buffer. J. Galamb. No. 1,423,521; July 25.
 Door buffer. L. Taffe. No. 1,437,922; Dec. 5.
 Door, Building. W. H. Beall. No. 1,429,833; Sept. 19.
 Door bumper, Adjustable. A. T. Earl and W. B. Hunkins. No. 1,409,137; Mar. 7.
 Door butt mortises, Machine for making. N. F. Anderson. No. 1,430,874; Oct. 3.
 Door, Canopy. R. S. Peelle. No. 1,404,053; Jan. 17.
 Door catch. F. G. Mükden. No. 1,425,271; Aug. 8.
 Door catch. G. A. Moon. No. 1,403,910; Jan. 17.
 Door catch to hold the door open. P. Frantz. No. 1,408,577; Mar. 7.
 Door check. E. C. Akers. No. 1,439,049; Dec. 19.
 Door check. B. E. and M. E. Bowles. No. 1,403,338; Feb. 28.
 Door check. W. G. Discher. No. 1,415,225; May 9.
 Door check. J. Nefjesauskas. No. 1,402,641; Jan. 3.
 Door check. A. Reeves. No. 1,422,783; July 11.
 Door check. P. Zimbelmann. No. 1,422,163; July 11.
 Door check and buffer, Combined. D. H. Strayer. No. 1,415,493; May 9.
 Door check and closer. F. A. Devaux. No. 1,404,513; Jan. 24.
 Door check and closer. C. W. Parker. No. 1,414,996; May 2.
 Door check, Revolving. C. J. Cruiff and S. B. van Aalten. No. 1,435,517; Nov. 14.
 Door checks, Locking device and releasing mechanism for. N. L. Schloss. No. 1,430,192; Sept. 26.
 Door closer and check. W. J. Bryon. No. 1,421,666; July 4.
 Door-closing mechanism, Bucket. F. E. Arndt. No. 1,406,327; Feb. 14.
 Door, Combined screen and storm. F. L. Cizek. No. 1,415,920; May 16.
 Door construction. W. E. Wine. No. 1,410,539; Mar. 21.
 Door construction, Garage. P. Frantz. No. 1,420,087; June 20.
 Door construction, Garage. P. Frantz. No. 1,426,170; Aug. 15.
 Door construction, Parallel-sliding. P. Frantz. No. 1,428,023; Sept. 5.
 Door construction, Screen. T. T. Willhoite. No. 1,431,071; Oct. 3.
 Door control, Adjustable. H. G. Voight. No. 1,434,171; Oct. 31.
 Door control, Furnace-draft. G. F. Holler and E. Schmidt. No. 1,438,037; Dec. 5.
 Door controller. C. A. Smith. No. 1,412,716; Apr. 11.
 Door controlling apparatus. R. S. Gehr. No. 1,408,186; Feb. 28.
 Door-controlling device. H. W. Crane. No. 1,422,931; July 18.
 Door-controlling mechanism. J. B. Harris. No. 1,430,228; Sept. 26.
 Door device. A. R. Ryan. No. 1,404,238; Jan. 24.
 Door device, Double-acting self-closing. J. Hauenstein. No. 1,439,703; Dec. 26.
 Door, Drop. C. E. Thomas. No. 1,407,359; Feb. 21.
 Door, Dumb-waiter. B. Wexler. No. 1,414,387; May 2.
 Door fastener. W. Hamman. No. 1,438,233; Dec. 12.
 Door fastener. A. D. and N. N. Irwin. No. 1,431,807; Oct. 10.
 Door fastener. J. R. Kiel. No. 1,431,584; Oct. 10.
 Door fastener. F. T. Robinson. No. 1,429,536; Sept. 19.
 Door fastener. S. J. Strid. No. 1,439,385; Dec. 19.
 Door fastener, Adjustable portable. R. E. MacKellar. No. 1,418,593; June 6.
 Door fastener, Grain-. C. A. Schnell. No. 1,405,013; Jan. 31.
 Door-fastening device, Detonating. A. A. Kelley. No. 1,403,502; Jan. 17.
 Door, Fire. J. G. Robinson. No. 1,407,222; Feb. 21.
 Door, Fire. H. Vissering. No. 1,405,172; Jan. 31.
 Door frame and hinge. J. C. Partridge. No. 1,438,781; Dec. 12.
 Door, Freight-car. J. L. Guerrant. No. 1,403,945; Jan. 17.
 Door, Grain. F. Jager. No. 1,437,373; Nov. 28.
 Door, Grain. J. McMurdo. No. 1,424,206; Aug. 1.
 Door, Grain. R. E. Smith. No. 1,423,040; July 18.
 Door, Grain. G. M. Waddy. No. 1,429,985; Sept. 26.
 Door, Grain-car. A. Campbell. No. 1,405,666; Feb. 7.
 Door-handling mechanism. W. E. Boyer. No. 1,417,714; May 30.
 Door hanger. H. M. Coe. No. 1,410,167; Mar. 21.
 Door hanger. F. K. Fassett. No. 1,418,549; June 6.
 Door hanger. S. Giczewski. No. 1,403,764; Jan. 17.
 Door hanger. A. J. Hayes. No. 1,421,941; July 4.
 Door hanger. L. B. Horner. No. 1,402,612; Jan. 3.
 Door hanger. C. A. Kunz. No. 1,424,311; Aug. 1.
 Door hanger. G. J. Meyer. No. 1,402,944; Jan. 10.

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- Door hanger. J. J. Rexroth. No. 1,405,374; Jan. 31.
 Door holder. E. Posson. No. 1,425,282; Aug. 8.
 Door holder. S. J. Rawlings. No. 1,431,040; Oct. 3.
 Door-holding device. J. F. Glaser. No. 1,433,271; Oct. 24.
 Door-holding device. N. B. Hurd. No. 1,421,691; July 4.
 Door knob, Combination. J. O. Holmberg. No. 1,434,821; Nov. 7.
 Door-knob fastener. H. B. Sanness. No. 1,436,201; Nov. 21.
 Door-knob lock. J. Nelson. No. 1,422,467; July 11.
 Door knobs, Alarm attachment for. H. R. Kirton. No. 1,401,987; Jan. 8.
 Door latch. W. E. Dill. No. 1,405,977; Feb. 7.
 Door latch. L. C. and F. S. Emerson. No. 1,407,395; Feb. 21.
 Door latch. L. L. Freund. No. 1,413,979; Apr. 25.
 Door latch. F. H. Hastings. No. 1,432,599; Oct. 17.
 Door latch. W. Knight. No. 1,407,753; Feb. 28.
 Door latch. J. Kuczkowski. No. 1,417,391; May 23.
 Door latch. F. H. Neidig. No. 1,405,857; Feb. 7.
 Door latch. C. G. Palmer. No. 1,408,629; Mar. 7.
 Door latch. W. A. Steffen. No. 1,405,350; Jan. 31.
 Door lock. S. S. Colavita. No. 1,414,862; May 2.
 Door lock. M. Cudera. No. 1,413,830; Apr. 25.
 Door lock. A. J. Dubee. No. 1,410,558; Mar. 28.
 Door lock. A. Gablenz. No. 1,422,690; July 11.
 Door lock. F. Godlewski. No. 1,438,525; Dec. 12.
 Door lock. N. B. Hurd. No. 1,430,905; Oct. 3.
 Door lock. B. Julian. No. 1,431,739; Oct. 10.
 Door lock. L. J. Larson. No. 1,416,365; May 16.
 Door lock. H. B. McCarty. No. 1,423,484; July 18.
 Door lock. T. E. Shannon. No. 1,431,263; Oct. 10.
 Door lock. W. E. Wine. No. 1,433,105; Oct. 24.
 Door lock and applying the same. W. Anderson. No. 1,423,825; July 25.
 Door lock and latch, Combined. F. Meyer. No. 1,415,104; May 9.
 Door lock, Combination. V. C. Rumberg. No. 1,438,666; Dec. 12.
 Door lock, Connecting-. S. D. Butterworth. No. 1,437,040; Nov. 28.
 Door lock, Sliding-. F. Andrusyszyn. No. 1,423,509; July 25.
 Door locks, Safety appliance for. G. E. Johnson. No. 1,439,552; Dec. 19.
 Door-locking and circuit-controlling device, Combined elevator-. F. A. Boedtcher. No. 1,413,570; Apr. 25.
 Door-locking mechanism. A. E. Zimmer. No. 1,437,034; Nov. 28.
 Door-locking mechanism. C. I. Walker. No. 1,438,730; Dec. 12.
 Door-mat-operated animated figure. F. E. Herr. No. 1,429,506; Sept. 19.
 Door mats, carpets, rugs, etc., Fastener for. H. Müller. No. 1,416,051; May 16.
 Door, Metal. J. O. Nymán. No. 1,439,439; Dec. 19.
 Door opener. A. C. Elder. No. 1,410,901; Mar. 28.
 Door opener. E. C. Gaines. No. 1,405,404; Feb. 7.
 Door opener. R. G. Myers. No. 1,431,413; Oct. 10.
 Door opening and closing apparatus. P. K. Strochalen. No. 1,416,138; May 16.
 Door opening and closing device. J. M. Nelson. No. 1,426,901; Aug. 22.
 Door-opening appliance. W. P. White. No. 1,413,642; Apr. 25.
 Door-opening mechanism. P. A. Oshanyk. No. 1,408,628; Mar. 7.
 Door-operated switch. J. F. Hoenninger, Jr. No. 1,413,118; Apr. 18.
 Door-operating apparatus. J. E. W. Fogal and C. L. Fulghum. No. 1,432,058; Oct. 17.
 Door-operating apparatus. E. H. Grim. No. 1,409,096; Mar. 7.
 Door-operating apparatus. N. Silverson. No. 1,405,691; Feb. 7.
 Door-operating appliances. J. G. Robinson. No. 1,421,721; July 4.
 Door-operating device. T. Brady. No. 1,403,481; Jan. 17.
 Door-operating device. J. H. Whaler. No. 1,432,507; Oct. 17.
 Door-operating device, Electrical. J. R. Kaiserman. No. 1,417,173; May 23.
 Door-operating means. H. G. Ainsworth. No. 1,418,420; June 6.
 Door-operating mechanism. A. Campbell. No. 1,418,907; June 6.
 Door-operating mechanism. A. Campbell. No. 1,438,297; Dec. 12.
 Door-operating mechanism. D. W. Campbell. No. 1,440,055; Dec. 26.
 Door-operating mechanism. F. W. Crosby. No. 1,421,177; June 27.
 Door-operating mechanism. P. R. Forman. No. 1,412,853; Apr. 18.
 Door-operating mechanism. W. F. Hagen. No. 1,421,002; June 27.
 Door-operating mechanism. P. H. Lacey. No. 1,411,039; Mar. 28.
 Door-operating mechanism. A. F. Paul. No. 1,412,369; Apr. 11.
 Door-operating mechanism, Automatic. F. Walker. No. 1,403,927; Jan. 17.
 Door-operating mechanism, Dump-. J. O. Neikirk. No. 1,428,650; Sept. 12.
 Door-operating mechanism, Electric. F. E. Wilterding and N. N. Buck. No. 1,430,206; Sept. 26.
 Door-operating mechanism, Garage-. A. Kubik. No. 1,424,650; Aug. 1.
 Door operator. G. T. Van Horn. No. 1,436,122; Nov. 21.
 Door, partition and, wall, Folding. H. Woolard and J. H. F. Lodge. No. 1,416,540; May 16.
 Door plate and signal. M. I. Gans. No. 1,431,390; Oct. 10.
 Door, Revolving. J. M. Friedland. No. 1,417,372; May 23.
 Door, Safety delivery. L. G. Bergren. No. 1,405,661; Feb. 7.
 Door, Screen. J. Icher. No. 1,430,015; Sept. 26.
 Door securer. J. T. Collins. No. 1,409,152; Mar. 14.
 Door securer. J. R. Cruikshank. No. 1,412,343; Apr. 11.
 Door-securing device. J. A. Rouch and T. H. Hastie. No. 1,406,085; Feb. 7.
 Door-securing device. H. Thorne. No. 1,421,746; July 4.
 Door, Service. F. J. Matchette. No. 1,403,559; Jan. 17.
 Door, Side-curtain. G. E. Holmes, J. M. and A. G. Bostrom. No. 1,416,028; May 16.
 Door silencer. G. R. Damiani. No. 1,437,635; Dec. 5.
 Door, Silo. L. Tabor. No. 1,403,459; Jan. 10.
 Door, Sound-damping. K. Eiler. No. 1,405,984; Feb. 7.
 Door spring. T. H. Folliott. No. 1,413,717; Apr. 25.
 Door spring. D. W. Millsaps. No. 1,405,735; Feb. 7.
 Door stop. A. C. Sargeant. No. 1,410,349; Mar. 21.
 Door stop and holder. M. H. Force. No. 1,416,703; May 23.
 Door stop and holder. C. A. French. No. 1,416,276; May 16.
 Door stop, Portable. J. P. Fiderius. No. 1,408,316; Feb. 28.
 Door strip. A. C. Gross. No. 1,404,364; Jan. 24.
 Door structure. C. J. Beeman. No. 1,411,561; Apr. 4.
 Door structure. H. J. Lotz. No. 1,438,047; Dec. 5.
 Door-supporting clamp. E. M. Soliah. No. 1,429,788; Sept. 19.
 Doorways, Closure for. L. A. Abramson. No. 1,415,854; May 16.
 Door, Wind-balanced. W. S. Ely. No. 1,438,477; Dec. 12.
 Doors, Adjustable striker plate for. F. Evans. No. 1,439,078; Dec. 19.
 Doors and partitions, Package receptacle for. J. A. C. Greene. No. 1,424,815; Aug. 8.
 Doors and the like, Fastener. L. H. Gorowitz. No. 1,413,473; Apr. 18.
 Doors and the like, Hinge joint for faceplate. G. B. Thomas. No. 1,414,841; May 2.
 Doors and windows, Mounting for slide. C. H. Snider. No. 1,408,543; Mar. 7.
 Doors and windows, Weather strip for. L. C. Bond. No. 1,407,921; Feb. 28.
 Doors, Attachment for screen. L. L. Robertson. No. 1,432,790; Oct. 24.
 Doors, Binder for folding. H. E. Ballard. No. 1,439,859; Dec. 26.
 Doors, Burglar lock for revolving. D. H. Close. No. 1,435,050; Nov. 7.
 Doors, Catch for screen. L. M. Pratt. No. 1,408,637; Mar. 7.
 Doors, Combined lock bolt and joint-packing strip for French. A. G. Wass. No. 1,407,966; Feb. 28.
 Doors, Combined support and guide for sliding. A. O. Roberts, J. J. O'Keefe, and A. F. Burby. No. 1,406,898; Feb. 14.
 Doors, Device for securing and supporting. H. Miller. No. 1,418,822; June 6.
 Doors, Holding device for. R. S. Blair. No. 1,439,353; Dec. 19.
 Doors, Latch for. R. G. Moore. No. 1,411,059; Mar. 28.
 Doors, Latch for sliding. E. E. Allstatter. No. 1,408,240; Feb. 28.
 Doors, Lock for sliding. J. C. Fritts. No. 1,422,846; July 18.
 Doors, Locking device for locker. W. N. Vance. No. 1,424,533; Aug. 1.
 Doors, Mechanism for operating. A. R. Neale. No. 1,426,591; Aug. 22.
 Doors, Mechanism for operating sliding. E. J. G. Phillips. No. 1,428,555; Sept. 12.
 Doors of fire-resistant cabinets, Cushion for. E. Ohnstrand. No. 1,436,353; Nov. 21.
 Doors of self-discharging receptacles, Locking mechanism for the. P. Krüger. No. 1,423,120; July 18.
 Doors of self-discharging receptacles, Operating mechanism for the. F. Finckh. No. 1,421,439; July 4.
 Doors, Operating mechanism for mine-shaft. H. F. Kohler. No. 1,403,420; Jan. 10.
 Doors or windows such as the doors of show cases and the like, Fastener for hinged. J. S. Bruce. No. 1,438,894; Dec. 12.
 Doors or the like, Jig for forming handle holes in. L. Ottinger. No. 1,412,087; Apr. 11.
 Doors, Safety device for. E. Karrenberg. No. 1,439,421; Dec. 19.
 Doors, Safety device for. A. Keller. No. 1,414,285; Apr. 25.
 Doors, Safety fastener for sliding. J. T. Mallard. No. 1,403,178; Jan. 10.
 Doors, Self-closing and controlling means for. B. Spitzfaden. No. 1,423,467; July 18.

Alphabetical list of inventions—Continued.

- Doors, Shock absorber for screen. G. E. Ferry. No. 1,436,871; Nov. 28.
- Doors, Shutter applicable to all kinds of. M. Bretos y Claveria. No. 1,413,895; Apr. 25.
- Doors, Track for sliding. S. W. Parsons. No. 1,429,620; Sept. 19.
- Doors, Window-operating mechanism for vehicle. E. G. Sonnemann. No. 1,412,142; Apr. 11.
- Double clasp. M. L. Minor. No. 1,419,683; June 13.
- Double-gear jack, Quick-action. A. W. Marr. No. 1,423,671; July 25.
- Double-throw switch. L. F. Kries. No. 1,414,421; May 2.
- Doubletree. F. L. Storer. No. 1,408,420; Feb. 28.
- Doubling apparatus. S. B. Haarbye and H. G. McIlvried. No. 1,427,804; Sept. 5.
- Douche. W. H. Fraser. No. 1,437,411; Dec. 5.
- Dough, Apparatus for treatment of. A. Benz, jr. No. 1,430,616; Oct. 3.
- Dough-cutting machine. A. Roscoe. No. 1,434,409; Nov. 7.
- Dough-dividing machine. T. S. Vierow. No. 1,423,371; July 18.
- Dough for bakery products during fermentation process, Determining condition of. C. J. Patterson. No. 1,429,526; Sept. 19.
- Dough-forming machine. L. De Vito. No. 1,424,806; Aug. 8.
- Dough-greasing apparatus. H. H. L. Wright and W. B. Price. No. 1,431,181; Oct. 31.
- Dough, Machine for proving. R. E. Baker, E. H. Ford, and A. F. Cummins. No. 1,412,444; Apr. 11.
- Dough mixer. D. Podhajny. No. 1,432,358; Oct. 17.
- Dough mixer. G. Royan. No. 1,408,473; Mar. 7.
- Dough mixer, Portable. F. X. Lauterbur. No. 1,434,617; Nov. 7.
- Dough-mixing machine. D. K. Allison. No. 1,426,444; Aug. 22.
- Dough-mixing tray and board. P. L. Dills. No. 1,414,074; Apr. 25.
- Dough-molding machine. F. X. Lauterbur. No. 1,432,874; Oct. 24.
- Dough-molding machine. J. A. Sexauer. No. 1,430,265; Sept. 26.
- Dough press. D. Tabucchi. No. 1,420,066; June 20.
- Doughnut-cooking machine. J. N. Judson. No. 1,429,904; Sept. 19.
- Doughy or granular material, Machine for portioning off. P. Blum. No. 1,431,718; Oct. 10.
- Dowel. J. Turner. No. 1,419,652; June 13.
- Dowel for timber joints, Bent. M. Fiebig. No. 1,436,584; Nov. 21.
- Dowel-making machine. G. W. Davis. No. 1,427,073; Aug. 22.
- Dowel pin. P. Fotacos. No. 1,429,200; Sept. 12.
- Dowel-pin lock. W. P. Hill. No. 1,435,233; Nov. 14.
- Doweling machine. W. J. Smith. No. 1,435,562; Dec. 12.
- Draft appliance. G. and G. H. Amonsens. No. 1,404,678; Jan. 24.
- Draft appliance. H. D. Guy. No. 1,402,415; Jan. 3.
- Draft appliance. E. G. Shockey. No. 1,417,112; May 23.
- Draft appliance or hitch. A. J. Bossbeck and J. McCluskey. No. 1,440,039; Dec. 26.
- Draft attachment. R. K. Bowers. No. 1,416,681; May 23.
- Draft connection. C. O. Deems. No. 1,408,081; Feb. 28.
- Draft connection. W. E. Woodard. No. 1,426,436; Aug. 22.
- Draft controller. N. K. Caplan. No. 1,431,931; Oct. 17.
- Draft controller, Automatic. E. Z. Burns and G. Keiller. No. 1,433,446; Oct. 24.
- Draft controller, Electric. F. D. Windell. No. 1,414,448; May 2.
- Draft coupling. E. Fowler and J. V. Lewis. No. 1,422,194; July 11.
- Draft coupling. J. Lopez. No. 1,408,955; Mar. 7.
- Draft device. H. M. Lake. No. 1,404,867; Jan. 31.
- Draft device, Induced. E. Prat. No. 1,434,313; Oct. 31.
- Draft equalizer. A. Beaton. No. 1,433,334; Oct. 24.
- Draft equalizer. C. L. Gordon. No. 1,429,868; Sept. 19.
- Draft equalizer. P. O. Heller. No. 1,429,425; Sept. 19.
- Draft equalizer. F. S. Marr. No. 1,410,337; Mar. 21.
- Draft equalizer. A. G. Meador. No. 1,419,881; June 13.
- Draft equalizer. I. D. Mitchell. No. 1,425,407; Aug. 8.
- Draft furnace, Downward. E. R. Jacques. No. 1,403,787; Jan. 17.
- Draft-gear barrel and making same. C. R. Jernberg. No. 1,412,785; Apr. 11.
- Draft rigging. W. Kelso. No. 1,439,739; Dec. 26.
- Draft rigging, Friction. G. B. Dorey. No. 1,439,803; Dec. 26.
- Draft means, Adjustable. F. H. Gerdeman. No. 1,429,729; Sept. 19.
- Draft mechanism. D. R. McGowan. No. 1,408,898; Mar. 7.
- Draft mechanism. J. O. Neikirk. No. 1,419,508; June 13.
- Draft mechanism. W. A. Stearns. No. 1,431,191; Oct. 10.
- Draft mechanism, Adjustable. M. C. Wills. No. 1,408,672; Mar. 7.
- Draft or blower plate, Folding. L. and M. Hopkins. No. 1,430,013; Sept. 26.
- Draft plant, Induced. F. Finsterbusch. No. 1,406,952; Feb. 14.
- Draft regulator. W. Craig. No. 1,431,289; Oct. 10.
- Draft regulator. W. W. Smalley. No. 1,428,664; Sept. 12.
- Draft regulator, Automatic. C. J. Sherwood. No. 1,422,311; July 11.
- Draft regulator, Automatic time-controlled. O. Lindholm. No. 1,435,535; Nov. 14.
- Draft regulators, Mounting for. F. C. Kasch and G. F. Neff. No. 1,422,868; July 18.
- Draft rigging. W. G. Adams. No. 1,404,333; Jan. 24.
- Draft rigging. D. S. Barrows. No. 1,431,717; Oct. 10.
- Draft rigging. B. Cook. No. 1,432,536; Oct. 17.
- Draft rigging. L. Housser. No. 1,432,066; Oct. 17.
- Draft rigging. B. W. Kadel. No. 1,426,991; Aug. 22.
- Draft rigging. G. T. Moore. No. 1,403,617; Jan. 17.
- Draft rigging. A. G. Sandman. No. 1,426,221; Aug. 15.
- Draft rigging. T. H. Symington. No. 1,409,039; Mar. 7.
- Draft rigging. A. H. Weston. No. 1,409,130; Mar. 7.
- Draft rigging. I. O. Wright. No. 1,407,976; Feb. 28.
- Draft rigging, Attachment for. C. R. Jernberg, M. A. Metzger, and E. Larson. No. 1,435,964; Nov. 21.
- Draft rigging, Coupling and yoke connection for. W. Kelso. No. 1,403,251; Jan. 10.
- Draft rigging, Friction. G. B. Dorey. No. 1,412,847; Apr. 18.
- Draft rigging, Friction. G. B. Dorey. No. 1,430,631; Oct. 3.
- Draft rigging, Shock-indicating means for. H. S. Hart. No. 1,412,737; Apr. 11.
- Drafting device. E. L. Fuller. No. 1,412,050; Apr. 11.
- Drafting device. W. J. Laubenheimer. No. 1,416,632; May 16.
- Drafting implement. J. L. Tanner. No. 1,402,269; Jan. 3.
- Drafting instrument. H. O. Eiane. No. 1,435,893; Nov. 14.
- Drafting instrument. D. Grieve. No. 1,415,547; May 9.
- Drafting instrument. C. A. Walters. No. 1,422,641; July 11.
- Drafting machine. H. S. Nunamaker. No. 1,436,673; Nov. 28.
- Drafting machines, Pantographic apparatus for attaching to universal. W. A. Perkins. No. 1,415,695; May 9.
- Drafting tool, Combining protractor and beam compass in one. A. E. Bell. No. 1,436,471; Nov. 21.
- Drag. W. Hedrich and J. Lindeman. No. 1,438,705; Dec. 12.
- Drag. J. Lindeman and W. Hedrich. No. 1,438,655; Dec. 12.
- Drag link. H. B. Garman. No. 1,410,908; Mar. 28.
- Drag link. H. B. Garman. Nos. 1,416,188-9; May 16.
- Drag link. H. B. Garman. No. 1,428,024; Sept. 5.
- Drag link. F. P. Williams. No. 1,429,705; Sept. 19.
- Drag links and the like, Dustguard for. J. A. Germonprez. No. 1,439,883; Dec. 26.
- Drag or grading machine, Road. J. W. Brannan. No. 1,428,319; Sept. 5.
- Drag, Road. G. G. Bayne. No. 1,417,882; May 30.
- Drag, Road. J. A. Gutridge and J. A. Wood. No. 1,434,287; Oct. 31.
- Drag, Road. J. W. Hruska. No. 1,406,019; Feb. 7.
- Drag, Subgrade. C. M. Butts. No. 1,439,200; Dec. 19.
- Drain board. H. J. Wallace. No. 1,405,881; Feb. 7.
- Drain, Roof. J. C. Sanders. No. 1,434,254; Oct. 31.
- Drainage device. F. M. Soday. No. 1,430,197; Sept. 26.
- Drainage system. W. J. Snively. No. 1,405,725; Feb. 7.
- Drainer, Tubing. F. Ulrich. No. 1,432,140; Oct. 17.
- DRAINING device. A. Disk. No. 1,426,262; Aug. 15.
- DRAINING land system for. W. and M. Osterberg. No. 1,432,489; Oct. 17.
- Drapery hook. J. W. McGhee. (Reissue.) No. 15,263; Jan. 10.
- Drapery rods, Extensible bracket for window. H. O. Wolf. No. 1,405,958; Feb. 7.
- Drawbar. M. Mason and O. Lund. No. 1,430,825; Oct. 3.
- Drawbar. G. N. A. M., and W. H. Simpson. No. 1,421,032; June 27.
- Drawbar carrier. I. N. Jones. No. 1,438,831; Dec. 12.
- Drawbench. W. Bark. No. 1,411,655; Apr. 4.
- Drawbolt and lock, Combination. C. S. Casperson. No. 1,410,995; Mar. 28.
- Drawbridges, streets, and the like, Barrier for. W. J. Donovan. No. 1,437,404; Dec. 5.
- Drawer. A. C. Terrell. No. 1,402,385; Jan. 3.
- Drawer construction. J. Ruwitch. No. 1,438,333; Dec. 12.
- Drawer-knob-fastening means. J. A. Lichtenberger. No. 1,405,528; Feb. 7.
- Drawer-locking device. E. W. Hawley. No. 1,413,658; Apr. 25.
- Drawer pull. F. J. Genth. No. 1,437,509; Dec. 5.
- Drawer, Sheet-metal. F. P. Williams. No. 1,404,503; Jan. 24.
- Drawer slide. F. E. Manchester. No. 1,412,699; Apr. 11.
- Drawer slide. I. Wagemaker. No. 1,410,629; Mar. 28.
- Drawing and lapping press. R. S. Smith and H. Miller. No. 1,421,035; June 27.
- Drawing and spinning apparatus. B. McGinnis. No. 1,407,555; Feb. 21.
- Drawing apparatus. C. Muller. No. 1,406,061; Feb. 7.
- Drawing apparatus. K. Müller. No. 1,433,839; Oct. 31.
- Drawing apparatus utilizing parallel movement. M. Bieuville. No. 1,408,252; Feb. 28.
- Drawing frames, Top-roll clearer board and apron clip for. A. H. Lambert and J. Dubois. No. 1,427,158; Aug. 29.
- Drawing instrument. R. D. Becker. No. 1,411,151; Mar. 28.

Alphabetical list of inventions—Continued.

- Drawing instrument. A. G. Cameron. No. 1,438,695; Dec. 12.
- Drawing instrument. C. A. Green and H. F. Schuh. No. 1,411,491; Apr. 4.
- Drawing instrument. C. A. Green and H. F. Schuh. No. 1,417,375; May 23.
- Drawing instrument. S. Hoffman, J. Schwartz, and I. Holden. No. 1,406,863; Feb. 14.
- Drawing instrument. C. S. Jacob. No. 1,409,723; Mar. 14.
- Drawing instrument. F. C. Krabec. No. 1,440,302; Dec. 26.
- Drawing machine, Universal. D. Turner and R. C. Grier. No. 1,414,002; Apr. 25.
- Drawing mechanism. A. C. Butler. No. 1,428,271; Sept. 5.
- Drawing or drafting mechanism. A. C. Butler. No. 1,433,529; Oct. 31.
- Drawing press. O. S. Beyer. No. 1,433,116; Oct. 24.
- Drawing press. W. Klocke. No. 1,404,911; Jan. 31.
- Drawing press. W. Klocke. No. 1,407,869; Feb. 28.
- Drawing presses or the like. W. Klock and J. E. Dobson. No. 1,411,036; Mar. 28.
- Drawing presses, Tension indicator for. R. S. Smith. No. 1,417,579; May 30.
- Drawings by artificial light, Apparatus for the reproduction of. P. A. M. Dubief. No. 1,425,636; Aug. 15.
- Drawn pipe and stretching same. G. Tanomura. No. 1,415,415; May 9.
- Dredge. A. C. Ludlum and A. Lowy. No. 1,403,260; Jan. 10.
- Dredge-bucket lip. R. W. Seyms. No. 1,419,524; June 13.
- Dredge, Clam and oyster. H. R. Sockwell. No. 1,413,944; Apr. 25.
- Dredge hull. W. H. Owens and J. L. Taylor. No. 1,430,179; Sept. 26.
- Dredge tumblers, Wear plate for. A. C. Penner. No. 1,430,846; Oct. 3.
- Dredges, Cutter for hydraulic. J. F. Cushing. No. 1,436,015; Nov. 21.
- Dredger. W. and W. Brown. No. 1,408,498; Mar. 7.
- Dredgers, Flushing hopper for shallow and deep. W. Weber. No. 1,429,387; Sept. 19.
- Dress. B. H. Scottford. No. 1,435,878; Nov. 14.
- Dress and other fastening device. C. Thomas. No. 1,408,311; Feb. 28.
- Dress and rompers, Combined. H. S. Burns. No. 1,435,415; Nov. 14.
- Dress, Apron. M. E. Hodge. No. 1,406,862; Feb. 14.
- Dress, Bloomer. M. Klein. No. 1,419,059; June 6.
- Dress, combination romper. M. Talianoff. No. 1,405,694; Feb. 7.
- Dress form. E. Gurney. No. 1,416,405; May 16.
- Dress form. J. McCarthy. No. 1,425,877; Aug. 15.
- Dress form, Collapsible. E. G. Herbert. No. 1,436,500; Nov. 21.
- Dress guard. A. H. De Voe. No. 1,423,602; July 25.
- Dress model, Trade. A. H. Levy. No. 1,432,400; Oct. 17.
- Dress protector. L. Rathsmill. No. 1,406,225; Feb. 14.
- Dress shield. A. Martin. No. 1,416,044; May 16.
- Dresses, Flexible joint for diving. J. S. Peress. No. 1,402,645; Jan. 3.
- Dressing case and desk, Gentleman's. C. L. Norquist. No. 1,410,713; Mar. 28.
- Dressing stand, Infant's. W. B. Driver. No. 1,426,160; Aug. 15.
- Drier. *See*—
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| Agitator drier. | Hair drier. |
| Cabinet drier. | Laundry drier. |
| Centrifugal drier. | Lumber drier. |
| Clothes drier. | Rotary drier. |
| Corn drier. | Seed drier. |
| Fertilizer drier. | Steam-pipe rack drier. |
| Fluid drier. | Veneer drier. |
- Drier. E. B. Ayres and T. H. Rhoads. No. 1,423,298; July 18.
- Drier. E. B. Ayres. No. 1,439,284; Dec. 19.
- Drier. T. F. Ballister and H. Goedinghaus. No. 1,437,084; Nov. 28.
- Drier. H. D. Drake. No. 1,403,016; Jan. 10.
- Drier. W. W. Green. No. 1,413,908; Apr. 25.
- Drier. D. C. Hansen. No. 1,434,008; Oct. 31.
- Drier. H. Howson. No. 1,404,614; Jan. 24.
- Drier. W. E. Haseltine. No. 1,439,702; Dec. 26.
- Drier. J. Kramer and B. D. Wolf. No. 1,439,173; Dec. 19.
- Drier. K. Ladisch. No. 1,416,960; May 23.
- Drier. W. V. Lewis. No. 1,409,740; Mar. 14.
- Drier. F. A. Martoccio. No. 1,418,010; May 30.
- Drier. L. E. Milkey. No. 1,438,129; Dec. 5.
- Drier. W. E. Prindle. No. 1,431,037; Oct. 3.
- Drier. T. P. Pye. No. 1,420,144; June 20.
- Drier. F. P. Reed. Nos. 1,432,735-6; Oct. 17.
- Drier. F. I. Rutledge. No. 1,406,496; Feb. 14.
- Drier. A. C. Sargent. No. 1,432,125; Oct. 17.
- Drier. S. S. Strasburg. No. 1,405,460; Feb. 7.
- Drier. J. H. Walsh. No. 1,432,270; Oct. 17.
- Drier and cooler, Cylindrical. G. McCrae. No. 1,409,350; Mar. 14.
- Drier and dish washer. A. A. Brauner. No. 1,405,394; Feb. 7.
- Drier or oven. F. Beers and H. L. Powell. No. 1,422,817; July 18.
- Drier, Rotary. L. O. Withun. No. 1,414,766; May 2.
- Driers, Air baffle for. E. B. Ayers and H. Bogaty. No. 1,412,598; Apr. 11.
- Driers, Looping device for. H. Bogaty. No. 1,421,153; June 27.
- Dry battery. S. Yal. No. 1,431,859; Oct. 10.
- Dry cell. C. W. Hazelett. No. 1,415,873; May 16.
- Dry cell and assembling the same. C. Hambuechen. No. 1,438,110; Dec. 5.
- Dry-cell construction. O. E. Ruhoff. No. 1,432,417; Oct. 17.
- Dry-cell depolarizer. A. V. Wilker. No. 1,434,469; Nov. 7.
- Dry cells, Machine for assembling. H. de Olaneta. No. 1,430,728; Oct. 3.
- Dry cells, Manufacture of. H. de Olaneta. Nos. 1,430,726-7; Oct. 3.
- Dry-cleaning and sterilizing process. T. P. Endicott. No. 1,426,053; Aug. 15.
- Dry closet, Electric. A. Le Blanc. No. 1,432,740; Oct. 24.
- Dry kiln. J. F. Hirt. No. 1,432,248; Oct. 17.
- Dry kiln. M. C. Warren and J. J. Krohn. No. 1,435,094; Nov. 7.
- Dry kiln, Hot-blast. B. L. Grondal. No. 1,437,840; Dec. 5.
- Drying and conveying machine. M. S. Weilman. No. 1,411,247; Mar. 28.
- Drying and tray for use in the performance thereof. E. B. Scott. No. 1,409,473; Mar. 14.
- Drying apparatus. P. Barducci. No. 1,409,915; Mar. 21.
- Drying apparatus. H. Bentz. No. 1,436,142; Nov. 21.
- Drying apparatus. J. E. Bolling. Nos. 1,431,145-6; Oct. 10.
- Drying apparatus. P. Fleury. No. 1,410,905; Mar. 28.
- Drying apparatus. P. Fleury. No. 1,433,608; Oct. 31.
- Drying apparatus. J. B. Hadaway. No. 1,426,379; Aug. 22.
- Drying apparatus. R. B. Hibbard, D. J. Watrous, and J. G. Bassette. No. 1,423,800; July 25.
- Drying apparatus. A. Huillard. No. 1,410,063; Mar. 21.
- Drying apparatus. C. Rees. No. 1,413,135; Apr. 18.
- Drying apparatus. F. C. Stephens. No. 1,408,483; Mar. 7.
- Drying apparatus. D. J. Watrous. No. 1,419,707; June 13.
- Drying apparatus, W. Wurl. No. 1,411,199; Mar. 28.
- Drying apparatus, Portable. T. Johnsen. No. 1,428,593; Sept. 12.
- Drying, baking, roasting and cooling organic substances. G. E. F. Tribes. No. 1,403,211; Jan. 10.
- Drying, burning, and recovering finely-divided material. A. Wijnberg. No. 1,440,194; Dec. 26.
- Drying, burning, and recovering finely-divided materials, Apparatus for. A. Wijnberg. No. 1,440,195; Dec. 26.
- Drying composition and making same. H. A. Gardner. No. 1,412,399; Apr. 11.
- Drying frame, Garment. I. Garon. No. 1,419,133; June 13.
- Drying goods. W. Atkinson. No. 1,415,623; May 9.
- Drying kiln. E. E. Perkins. No. 1,430,750; Oct. 3.
- Drying kiln. R. Thelen. No. 1,420,296; June 20.
- Drying kiln, Lumber. V. G. Gilbreath. No. 1,437,839; Dec. 5.
- Drying machine. T. Allsop and W. W. Sibson. Nos. 1,412,593-4; Apr. 11.
- Drying machine. T. Allsop and W. W. Sibson. No. 1,414,973; May 2.
- Drying machine. J. G. Bassette. No. 1,419,712; June 13.
- Drying machine. N. C. Hero. No. 1,403,775; Jan. 17.
- Drying machine. T. F. Pinder. No. 1,432,729; Oct. 17.
- Drying machine. F. P. Reed. No. 1,431,488; Oct. 10.
- Drying machine. F. P. Reed. No. 1,432,732; Oct. 17.
- Drying machine. P. J. Shampay. No. 1,429,976; Sept. 26.
- Drying machine. G. Stone. No. 1,421,856; July 4.
- Drying machine. L. A. Wagner. No. 1,410,230; Mar. 21.
- Drying machine, Textile. B. A. Parkes. No. 1,407,081; Feb. 21.
- Drying materials, Apparatus for. H. H. Dow. No. 1,415,160; May 9.
- Drying means. C. H. Currier. No. 1,435,152; Nov. 14.
- Drying method and means. E. F. White. No. 1,424,969; Aug. 8.
- Drying molds. L. R. Lemoine. No. 1,421,791; July 4.
- Drying process and apparatus. C. Field. No. 1,423,928; July 25.
- Drift sight. D. L. Webster and H. N. Russell. No. 1,419,335; June 13.
- Drift sight. D. L. Webster and H. N. Russell. No. 1,436,924; Nov. 28.
- Drifts or shafts, Apparatus for boring. G. F. Goerner. No. 1,413,471; Apr. 18.
- Drifting device. J. E. Mournie. No. 1,411,803; Apr. 4.
- Drill. *See*—
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| Boring drill. | Hoe drill. |
| Cloth drill. | Pneumatic drill. |
| Earth-boring drill. | Ratchet drill. |
| Electric drill. | Rock drill. |
| Grain drill. | Rotary boring drill. |
| Grinding-machine drill. | drill. |
| Hand drill. | drill. |
- Drill. O. M. Carter. No. 1,411,803; Apr. 11.
- Drill. A. B. Chester. No. 1,411,803; Apr. 11.
- Drill. C. H. Dockham. No. 1,411,803; Apr. 11.
- Drill. G. W. Dunsforth. No. 1,411,803; Apr. 11.

Drill. J. C. Fitzgerald. No. 1,421,928; July 4.
Drill. H. B. Halvorsen. No. 1,440,075; Dec. 26.
Drill. A. L. Hawkesworth. Nos. 1,422,264-5; July 11.
Drill. A. L. Hawkesworth. No. 1,423,849; July 25.
Drill. A. L. Hawkesworth. No. 1,426,637; Aug. 22.
Drill. O. F. Heer. No. 1,407,348; Feb. 21.
Drill. II. J. Kimman. No. 1,404,530; Jan. 24.
Drill. N. C. King. No. 1,416,647; May 16.
Drill. W. K. Schaefer, H. G. Greer, and E. S. McCullough. No. 1,403,711; Jan. 17.
Drill. E. Vedovelli. No. 1,403,991; Jan. 17.
Drill and reamer, Combined. J. P. Fullilove. No. 1,411,484; Apr. 4.
Drill and screw set, Combined. S. Solop. No. 1,424,600; Aug. 1.
Drill and tap, Combination. J. F. Anderson, Jr., and J. C. Masters. No. 1,408,793; Mar. 7.
Drill and wire gauge, Automatic. E. Curran. No. 1,434,101; Oct. 31.
Drill and wrench. J. D. Fetter. No. 1,435,111; Nov. 7.
Drill bit. J. J. Brossett. No. 1,428,415; Sept. 5.
Drill bit. R. Caverly. No. 1,427,064; Aug. 22.
Drill bit. W. L. Childs. No. 1,406,931; Feb. 14.
Drill bit. C. B. Gibson, jr. No. 1,439,092; Dec. 19.
Drill bit. M. E. Thomas. No. 1,402,684; Jan. 3.
Drill bit and lubricator. G. Engelbrekt. No. 1,404,016; Jan. 17.
Drill bit and sample-taking device. G. A. Humason and P. J. Barraco. No. 1,437,805; Dec. 5.
Drill-bit die. F. J. Laird. Nos. 1,440,018-19; Dec. 26.
Drill bit, Multiple-cutting. J. J. and J. R. Bookhout. No. 1,428,137; Sept. 5.
Drill carriage. G. P. Gomez. No. 1,403,315; Jan. 10.
Drill chuck. H. Casler. No. 1,432,278; Oct. 17.
Drill column, Pneumatic. H. I. Stage. No. 1,418,336; June 6.
Drill-feeding mechanism. H. C. Johansen. No. 1,418,080; May 30.
Drill gauge, Twist-. A. W. Amsden. No. 1,439,282; Dec. 19.
Drill head. E. Werner and D. J. Nierzwicki. No. 1,440,147; Mar. 21.
Drill holding and releasing device. H. W. Watson. No. 1,439,654; Dec. 19.
Drill jig. L. Pine. No. 1,414,635; May 2.
Drill pipe-slip, Rotary. C. C. Hosmer and C. H. Wines. No. 1,414,951; May 2.
Drill pounder. J. Rosh. No. 1,403,871; Jan. 17.
Drill press. J. E. Carlson. No. 1,436,477; Nov. 21.
Drill press. J. Eckhard. No. 1,426,052; Aug. 15.
Drill press. P. H. Leckinger. No. 1,433,387; Oct. 24.
Drill press. H. C. Leonard and H. E. Wenstrom. No. 1,432,027; Oct. 17.
Drill press. A. Ruetschi. No. 1,434,564; Nov. 7.
Drill press. F. C. Spencer. No. 1,403,985; Jan. 17.
Drill press. J. L. Vaughn. No. 1,437,570; Dec. 5.
Drill press. C. A. Widmer. No. 1,424,538; Aug. 1.
Drill presses and other machines, Tapping attachment for. G. Pawson. No. 1,433,842; Oct. 31.
Drill presses, Driving mechanism for. W. G. Allen. No. 1,431,354; Oct. 10.
Drill presses, Screw-driver chuck for. M. Oro. No. 1,415,687; May 9.
Drill-steel retainer. G. G. Tuttle. Nos. 1,429,808-10; Sept. 19.
Drill-steel retainer. H. G. Tuttle. No. 1,414,234; Apr. 25.
Drill-table mechanism. W. T. Sears. No. 1,414,487; May 2.
Drill-twisting machine. R. Hervig. No. 1,405,414; Feb. 7.
Drill-twisting method and machine. J. F. Meyers. No. 1,423,387; Sept. 5.
Drilling and boring machine, Vertical. T. Lumsden. No. 1,413,174; Apr. 18.
Drilling and enlarging holes, Device for. H. A. Habicht. No. 1,433,816; Oct. 31.
Drilling and like machines, Drive mechanism for. J. F. Mirrielees. No. 1,439,747; Dec. 26.
Drilling and riveting machine, Combined. J. Kanownik. No. 1,432,397; Oct. 17.
Drilling apparatus. E. G. Martin. No. 1,435,114; Nov. 7.
Drilling apparatus, Rotary. E. E. Greve. No. 1,437,755; Dec. 5.
Drilling apparatus. H. H. Markey. No. 1,433,394; Oct. 24.
Drilling bit. E. J. Akins. No. 1,415,619; May 9.
Drilling bit. W. A. Legate. No. 1,429,041; Sept. 12.
Drilling device. W. S. McBride. No. 1,424,109; July 25.
Drilling device, Rail-. F. A. Tegeler. No. 1,427,982; Sept. 5.
Drilling jig. J. F. Fetterly. No. 1,430,895; Oct. 3.
Drilling machine. A. G. Anderson. No. 1,432,516; Oct. 17.
Drilling machine. B. Alseika. No. 1,409,909; Mar. 21.
Drilling machine. W. J. Bayrer. No. 1,416,777; May 23.
Drilling machine. T. B. Caulkins. No. 1,422,031; July 4.
Drilling machine. J. Edwards. No. 1,424,997; Aug. 8.
Drilling machine. J. Geier. No. 1,407,059; Feb. 21.
Drilling machine. J. H. Jones. No. 1,410,815; Mar. 28.
Drilling machine. J. Schatz and A. M. Sosa. No. 1,413,700; Apr. 18.
Drilling machine. W. T. Sears and G. W. Jager. No. 1,417,181; May 23.
Drilling machine, Track-. E. A. Everett. No. 1,421,194; June 27.
Drilling machines, Chuck for stationary vertical. C. De Toni. No. 1,403,149; Jan. 10.
Drilling machines, Drill head for. J. F. Buhr. No. 1,428,002; Sept. 5.
Drilling machines, Interlocking mechanism for. W. T. Sears. No. 1,434,752; Nov. 7.
Drilling machines, Supporting and clamping mechanism for. W. T. Sears. No. 1,418,837; June 6.
Drilling machinery, Rotary. G. T. Pollard. No. 1,426,670; Aug. 22.
Drilling tool, Electric. R. C. Sharp. No. 1,419,415; June 13.
Drills, Air-feed control for rock. F. M. Slater. No. 1,407,591; Feb. 21.
Drills and other sowing implements, Air gravity seeding device for. T. J. McBride. No. 1,407,795; Feb. 28.
Drills and similar tools, Drive for. W. Thompson and W. J. Roy. No. 1,422,322; July 11.
Drills, Automatic air-feed control for rock. H. I. Stage. No. 1,407,599; Feb. 21.
Drills, etc., Connecting rod for. H. J. Kimman. No. 1,423,614; July 25.
Drills, Detachable bit for. H. H. Des Roches. No. 1,423,713; July 25.
Drills, Front-end construction for rotating rock. F. M. Slater. No. 1,407,589; Feb. 21.
Drills, Feeding means for. H. I. Stage. No. 1,425,613;
Drills, Grinder attachment for. F. R. Lucke. No. 1,426,579; Aug. 22.
Drills, Handle for stope. F. M. Slater. No. 1,406,767; Feb. 14.
Drills, Journal adjustment for arms of multiple-spindle. E. W. Cleveland. No. 1,413,004; Apr. 18.
Drills, Lubricator for roller. H. R. Hughes. No. 1,439,896; Dec. 26.
Drills, Power transmission for rotary. H. T. Whitelkin. No. 1,405,241; Jan. 31.
Drills, Standard for rock. B. B. Brewster. No. 1,439,679; Dec. 19.
Drills, Throttle valve for rock. F. M. Slater. No. 1,407,590; Feb. 21.
Drink mixer. C. H. Beach. No. 1,433,253; Oct. 24.
Drink mixer. W. Lyngar. No. 1,429,747; Sept. 19.
Drink mixer. C. Vogt. No. 1,402,813; Jan. 10.
Drink-mixing machine. W. M. Murphy. No. 1,415,679; May 9.
Drinking cup, Collapsible. L. Schorpp. No. 1,426,916; Aug. 22.
Drinking-cup dispenser. P. Maiwurm. No. 1,425,886; Aug. 15.
Drinking-cup holder. W. E. Swift. No. 1,411,388; Apr. 4.
Drinking cup, Sanitary. F. and J. Alland. No. 1,434,359; Nov. 7.
Drinking fount, Portable. J. Q. Clarke. No. 1,431,724; Oct. 10.
Drinking fountain. C. O. Cowan. No. 1,409,930; Mar. 21.
Drinking fountain. O. F. Dunlap. No. 1,437,729; Dec. 5.
Drinking fountain. C. F. Owen. No. 1,421,296; June 27.
Drinking trough. E. A. Beamer. No. 1,403,731; Jan. 17.
Drip catcher. P. Carlson. No. 1,410,889; Mar. 28.
Drip-pan assembly. A. D. Wyckoff and H. P. de Correvont. No. 1,431,768; Oct. 10.
Drive mechanism, Differential. W. H. Harris. No. 1,414,126; Apr. 25.
Drive mechanism, Differential. W. H. Harris. No. 1,418,565; June 6.
Drive mechanism, Friction. H. W. Bell and H. L. Hoyt, Jr. No. 1,418,355; June 6.
Drive mechanism, Front-wheel. T. H. Schaefer. No. 1,420,387; June 20.
Drive mechanism, Mechanical. W. S. Edmands. No. 1,433,125; Oct. 24.
Drive mechanism, Power control for. C. W. Anderson. No. 1,422,809; July 18.
Drive mechanism, Ratchet clutch for. C. W. Anderson. No. 1,423,172; July 18.
Drive mechanism, Rotary. V. W. Zilen. No. 1,440,261; Dec. 26.
Driver, Automatic. F. A. Middleton. No. 1,417,624; May 30.
Driving and reversing mechanism. G. I. Alden. No. 1,432,653; Oct. 17.
Driving and stopping mechanism. R. C. Pierce. No. 1,420,744; June 27.
Driving and stopping mechanism. A. R. Schoenky. No. 1,437,450; Dec. 5.
Driving and stopping mechanism. L. E. Topham. No. 1,404,072; Jan. 17.
Driving box. E. G. Sampson. No. 1,421,101; June 27.
Driving box, Connected.

- Driving machine, Spike-. J. H. Doak. No. 1,404,841; Jan. 31.
- Driving mechanism. A. Eilersgaard. No. 1,437,639; Dec. 5.
- Driving mechanism. S. Garwood. No. 1,419,555; June 13.
- Driving mechanism. C. F. Gilchrist. No. 1,429,028; Sept. 12.
- Driving mechanism. T. A. Griffith. No. 1,405,408; Feb. 7.
- Driving mechanism. L. S. Heth and F. C. Palmerlee. No. 1,407,032; Feb. 21.
- Driving mechanism. B. Kollman. No. 1,438,313; Dec. 12.
- Driving mechanism. F. H. Lippincott. No. 1,440,161; Dec. 26.
- Driving mechanism. W. McElree. No. 1,431,168; Oct. 10.
- Driving mechanism. C. C. Schmand. No. 1,417,862; May 30.
- Driving mechanism. A. E. Schuette. No. 1,407,890; Feb. 28.
- Driving mechanism. C. G. Thompson. No. 1,403,923; Jan. 17.
- Driving mechanism. G. R. Walker. No. 1,420,793; June 27.
- Driving mechanism. G. E. White. No. 1,406,313; Feb. 14.
- Driving mechanism, Differential. W. M. Wegmann. No. 1,403,994; Jan. 17.
- Driving mechanism, Eccentric. R. A. Watkins. No. 1,413,815; Apr. 25.
- Driving mechanism, Elastic. J. Feyer. No. 1,408,449; Mar. 7.
- Driving mechanism, Elastic device for insertion in. W. Scott. No. 1,413,940; Apr. 25.
- Driving mechanism for counters. S. Hinds. No. 1,425,964; Aug. 15.
- Driving mechanism, Friction. J. R. White. No. 1,406,792; Feb. 14.
- Driving mechanism, Intermittent. B. L. Van Orman. No. 1,428,724; Sept. 12.
- Driving mechanism, Ventilated. T. A. Bryson. No. 1,434,770; Nov. 7.
- Driving mechanism, Yielding. D. W. Allis. No. 1,436,072; Nov. 21.
- Driving tools, Mechanism for. A. E. Bergey. No. 1,413,094; Apr. 13.
- Driving wheel, Detachable. A. E. Cook and T. Van Tuyl. No. 1,417,795; May 30.
- Drop-cover check. H. A. Arnold. No. 1,425,568; Aug. 15.
- Drop-placer comb. F. M. Schuler. No. 1,433,745; Oct. 31.
- Dropper. See—
Medicine dropper.
- Drum. W. H. Baldwin and C. T. Plummer. No. 1,420,233; June 20.
- Drum. J. E. W. Fogal. No. 1,403,021; Jan. 10.
- Drum. O. N. Howerton and E. Starbuck. No. 1,412,016; Apr. 4.
- Drum. W. D. Nelson. No. 1,431,836; Oct. 10.
- Drum and cymbal beater. G. I. Danly. No. 1,437,173; Nov. 28.
- Drum and making the same. W. Christian. No. 1,429,843; Sept. 19.
- Drum attachment. T. Wilson. No. 1,413,445; Apr. 18.
- Drum, Brake. L. M. Stellmann. No. 1,426,684; Aug. 22.
- Drum feeder. G. T. Pollard and O. H. Johnson. No. 1,422,618; July 11.
- Drumhead-tightening means. J. Innes. No. 1,412,307; Apr. 11.
- Drum machine. H. Carle. No. 1,429,324; Sept. 19.
- Drum or mold clamp. H. Barkschat. No. 1,431,089; Oct. 3.
- Drum or the like, Veneer. J. L. Walker. No. 1,430,420; Sept. 26.
- Drum, Metallic. H. L. Gerstenberger. No. 1,413,907; Apr. 25.
- Drum, Sanding. W. Loeffler. No. 1,412,289; Apr. 11.
- Drum switch, Snap. C. F. Smith. No. 1,417,284; May 23.
- Drum, Winding. L. C. Miles. No. 1,408,463; Mar. 7.
- Drum, Winding. H. S. Myers. No. 1,411,061; Mar. 28.
- Drums, Safety stop for hoisting. F. E. Arndt. No. 1,412,643; Apr. 11.
- Dry-goods measure. H. C. Carey. No. 1,413,254; Apr. 18.
- Duck decoy. S. K. Peel and W. Englund. No. 1,431,751; Oct. 10.
- Duck decoy. J. W. Lloyd. No. 1,437,764; Dec. 5.
- Dumb-waiter attachment. E. M. Butler and G. A. Jochum. No. 1,404,832; Jan. 31.
- Dumb-waiter attachment. H. Del Mar. No. 1,403,296; Jan. 10.
- Dump, Automatic revolving. E. J. Best. No. 1,424,871; Aug. 8.
- Dump, Automatic rolling. E. Ramsay. No. 1,425,051; Aug. 8.
- Dump bailer. R. C. Baker. No. 1,406,329; Feb. 14.
- Dump body, Multiple-section. H. A. Worcester. No. 1,428,930; Sept. 12.
- Dump, Rotary. E. J. Best. No. 1,435,691; Nov. 14.
- Dumping apparatus. G. W. McGlauffin. No. 1,420,856; June 27.
- Dumping apparatus, Vehicle. L. J. McMillin. No. 1,433,018; Oct. 24.
- Dumping body. M. Nester. No. 1,432,487; Oct. 17.
- Dumping box. C. A. Trauger. No. 1,404,494; Jan. 24.
- Dumping device and process. M. O. Henderson. No. 1,415,640; May 9.
- Dumping screening and washing machine, Self-. W. F. Martin. No. 1,438,126; Dec. 5.
- Dumping vehicles, Wheel clamp for. L. J. McMillin. No. 1,433,019; Oct. 24.
- Duplicating apparatus. M. C. Hale. No. 1,437,141; Nov. 28.
- Duplicating machine, Rotary. G. A. W. Rushworth. No. 1,407,087; Feb. 21.
- Duplicating, manifolding, and the like. D. Gestetner. No. 1,426,979; Aug. 22.
- Duplicator. T. Danheiser and F. F. Fecher. No. 1,422,934; July 18.
- Dust, Apparatus for removing. A. B. Fowler. No. 1,402,755; Jan. 10.
- Dust arrester. W. A. Hext. No. 1,402,294; Jan. 3.
- Dust cap. A. B. Catterall. No. 1,423,515; July 25.
- Dust cap. J. R. Orr. No. 1,432,613; Oct. 17.
- Dust cap. M. C. Schweinert. No. 1,436,462; Nov. 21.
- Dust-cap construction. A. E. Bronson. No. 1,418,524; June 6.
- Dust-cloth container. A. Holm. No. 1,428,286; Sept. 5.
- Dust collector. H. F. Bickel and B. J. Minnier. No. 1,420,954; June 27.
- Dust collector. W. T. Blaney. No. 1,427,674; Aug. 29.
- Dust collector. A. T. Deily. No. 1,408,693; Mar. 7.
- Dust collector. G. Halliday. No. 1,439,412; Dec. 19.
- Dust collector. E. Robideau. No. 1,431,258; Oct. 10.
- Dust collector. E. H. Stroud. No. 1,416,995; May 23.
- Dust collector. A. J. Wilharm. No. 1,429,006; Sept. 12.
- Dust collector or chute. A. Finstad. No. 1,413,843; Apr. 25.
- Dust guard. R. F. Darby. No. 1,418,540; July 6.
- Dust guard. H. C. Gamage. No. 1,421,449; July 4.
- Dustpan. M. C. Chagnon. No. 1,410,369; Mar. 21.
- Dustpan. J. A. Hall. No. 1,424,761; Aug. 8.
- Dustpan. L. Miller. No. 1,404,466; Jan. 24.
- Dustpan and holder for brooms, etc., Combined. E. E. Stosser. No. 1,402,547; Jan. 3.
- Dust remover. A. W. Peffer. No. 1,438,719; Dec. 12.
- Dust removing and collecting means. J. A. Stevens and A. D. Pratt. No. 1,440,033; Dec. 26.
- Dust separator. W. J. Baldwin. No. 1,415,294; May 9.
- Dust separator, Centrifugal. J. W. Newcombe. No. 1,420,665; June 27.
- Dust shield. J. F. Syrett. No. 1,424,324; Aug. 1.
- Duster. T. G. Johnson. No. 1,437,145; Nov. 28.
- Duster. C. H. Leatherman. No. 1,416,480; May 16.
- Dusting machine. L. Giles. No. 1,435,706; Nov. 14.
- Dusting machine, Bag-. C. Talotta. No. 1,409,499; Mar. 14.
- Dye. W. Herzberg and G. Hoppe. No. 1,431,656; Oct. 10.
- Dye and making same. R. Arnot. No. 1,414,164; Apr. 25.
- Dye and making same, Brown. W. B. Richardson. No. 1,412,707; Apr. 11.
- Dye, Azo. H. Geldermann and F. Meyer. No. 1,411,245; Mar. 28.
- Dye combined with soap and producing the same, Dark. C. C. Huffman. No. 1,413,026; Apr. 18.
- Dye for documents, Making an indestructible black stamp. J. Schiffmann. No. 1,421,728; July 4.
- Dye, Orthooxyazo. W. Herzberg and O. Scharfenberg. No. 1,431,655; Oct. 10.
- Dye, Production of disazo. W. M. Ralph and L. H. Flett. No. 1,415,704; May 9.
- Dyeing. A. Linz. Nos. 1,414,029-31; Apr. 25.
- Dyeing. H. Toeffer. No. 1,417,869; May 30.
- Dyeing and bleaching. J. F. King. No. 1,409,184; Mar. 14.
- Dyeing and other treatment of textile fibers in the loose state, Apparatus for the. J. T., and J. Brandwood. Nos. 1,432,318-19; Oct. 17.
- Dyeing animal fibers, Manufacturing yellow coloring matters for. F. Günther. No. 1,430,899; Oct. 3.
- Dyeing apparatus. W. H. Davis. No. 1,405,299; Jan. 31.
- Dyeing apparatus. J. D. Henon. No. 1,433,276; Oct. 24.
- Dyeing, Apparatus for. W. H. Davis. No. 1,407,387; Feb. 21.
- Dyeing, Fast. V. Villiger and H. von Krannichfeldt. No. 1,431,136; Oct. 3.
- Dyeing machine. W. J. Going. No. 1,407,265; Feb. 21.
- Dyeing machine. E. S. Halter. No. 1,417,825; May 30.
- Dyeing machine. A. W. Sehn. No. 1,405,341; Jan. 31.
- Dyeing machine. J. H. Thompson. No. 1,440,251; Dec. 26.
- Dyeing, Manufacture of stable, dry, and readily-soluble vat preparations for. K. Thiess and F. Giloy. No. 1,440,037; Dec. 26.
- Dyeing material, Apparatus for and method of. L. K. Blach. No. 1,415,513; May 9.
- Dyeing skins, hairs, and the like. O. Kaltwasser and H. Oehrn. No. 1,416,646; May 16.
- Dyeing skins, hairs, and the like. P. Onnertz. No. 1,434,449; Nov. 7.
- Dyes. W. Herzberg and G. Hoppe. No. 1,419,502; June 13.
- Dyes and producing dyes. H. H. Culmer. No. 1,409,083; Mar. 7.
- Dyes, Azo. R. Haugwitz. No. 1,405,687; Feb. 7.
- Dyes, Azo. B. Schöner and O. Siebert. No. 1,408,405; Feb. 28.
- Dyes, Cotton. H. Jordan. No. 1,422,866; July 18.
- Dyes for wool. Orthooxyazo. W. Herzberg and O. Scharfenberg. No. 1,408,296; Feb. 28.
- Dyes for wool. Orthooxyazo. W. Herzberg and C. Scharfenberg. No. 1,426,190; Aug. 15.

Alphabetical list of inventions—Continued.

- Dyes, Manufacture of diazotizable trisazo. J. Dedichen. No. 1,416,621; May 16.
- Dyes, Orthooxyazo. R. Haugwitz. No. 1,419,500; June 13.
- Dyes, Orthooxyazo. W. Herzberg and O. Scharfenberg. No. 1,408,297; Feb. 28.
- Dyes, Orthooxyazo. W. Herzberg and O. Scharfenberg. No. 1,419,501; June 13.
- Dyes, Orthooxyazo. W. Herzberg and O. Scharfenberg. No. 1,426,189; Aug. 15.
- Dyes, Orthooxymonoazo. W. Lange. No. 1,408,363; Feb. 28.
- Dyestuff, Blue wool. H. Schweitzer. No. 1,429,781; Sept. 19.
- Dyestuff derived from anthraquinone and making same, Vat. B. Mayer, W. Moser, and J. Würfler. No. 1,436,770; Nov. 28.
- Dyestuffs and making same, Halogen derivatives of basic acridine. C. Vaucher and R. Speitel. No. 1,418,852; June 6.
- Dyestuffs and making same, Vat. J. Schmidlin and W. Brunner. No. 1,405,446; Feb. 7.
- Dyestuffs dyeing on mordant and making same. M. Alioth and E. Bodmer. No. 1,403,888; Jan. 17.
- Dyestuffs of the indigo series. M. Bouvier. No. 1,412,038; Apr. 11.
- Dyestuffs, Vat. W. Bauer and A. Herre. No. 1,434,983; Nov. 7.
- Dynamo and motor, Polyphase. A. Heyland. No. 1,411,354; Apr. 4.
- Dynamo-electric machine. P. A. H. Mossay. No. 1,405,616; Feb. 7.
- Dynamo-electric machine. E. A. Watson. No. 1,422,154; July 11.
- Dynamo, Inherently-regulated direct-current. H. Charlet. No. 1,416,265; May 16.
- Dynamo, Self-regulating continuous-current. A. H. Midgley. No. 1,419,071; June 6.
- Dynamos, Controlling and regulating system for. W. J. Ricketts. No. 1,437,361; Nov. 28.
- Dynamos, Suspension for train-lighting. F. G. Beetem. No. 1,415,083; May 9.
- Dynamometer. E. M. Burr. No. 1,433,067; Oct. 24.
- Dynamometer. C. M. Eason. No. 1,417,462; May 23.
- Dynamometer. C. M. Eason. No. 1,424,888; Aug. 8.
- Dynamometer. H. O. Hem. No. 1,424,357; Aug. 1.
- Dynamometer recording instrument. C. M. Eason. No. 1,417,461; May 23.
- Ear device for deaf. C. Clark. No. 1,408,500; Mar. 7.
- Ear muff. J. M. Delson. No. 1,438,171; Dec. 12.
- Earring. A. G. Cicerchi. No. 1,419,021; June 6.
- Ear stopper. B. A. Stair. No. 1,406,425; Feb. 14.
- Ear-tinning machine. W. E. Burns. No. 1,417,448; May 23.
- Ear trumpet for truck drivers. E. W. Hofstatter. No. 1,423,802; July 25.
- Earth-boring apparatus and making same. F. A. Ingalls. No. 1,408,886; Mar. 7.
- Earth-boring drill. H. R. Hughes. No. 1,412,942; Apr. 18.
- Earth-handling apparatus for use in irrigation. P. M. Bangle. No. 1,419,101; June 6.
- Earth-treating process and products. R. G. Tellier. No. 1,402,112; Jan. 3.
- Easel. Adjustable cardboard. M. J. Whipple. No. 1,439,719; Dec. 26.
- Easel, Collapsible. P. H. Welcker. No. 1,427,880; Sept. 5.
- Easel, Display. L. E. Sadler. No. 1,419,944; June 20.
- Easel display, Folding. R. Heinz. No. 1,404,204; Jan. 24.
- Easel for florists' use. C. Smith. No. 1,407,490; Feb. 21.
- Easel for florists' use. C. Smith. No. 1,421,595; July 4.
- Easel for holding sheet music, books, or the like. A. Summers. No. 1,409,614; Mar. 14.
- Easel, Knockdown. D. Levigton. No. 1,412,880; Apr. 18.
- Eating appliance. J. B. A. La Jeunesse. No. 1,409,731; Mar. 14.
- Eaves-trough hanger. H. Elftink. No. 1,414,345; May 2.
- Ebonite solution. W. B. Pratt. No. 1,409,570; Mar. 14.
- Eccentric. F. Hornby. No. 1,412,117; Apr. 11.
- Edge, Producing serrated. J. E. Burns. No. 1,435,514; Nov. 14.
- Edge-scouring machine. F. M. Furber. No. 1,404,752; Jan. 31.
- Edge-setting tools, Holder for. J. E. Foss. No. 1,419,496; June 13.
- Edge-trimming machine. H. D. Webb. No. 1,415,966; May 16.
- Edged work according to a pattern. Apparatus for producing. R. Rychiger and E. Kúpfer. No. 1,405,743; Feb. 7.
- Edger. A. Mereen. No. 1,422,463; July 11.
- Edges, Method and apparatus for filling roll. D. Micon. No. 1,428,796; Sept. 12.
- Edging machine. A. E. Maynard and W. A. Gunning. No. 1,439,631; Dec. 19.
- Edging machines, Roll guard for. G. W. Dorman. No. 1,415,810; May 9.
- Edible product and making same. C. Ellis. No. 1,417,893; May 30.
- Edible product obtained from the sugar juices of beets and obtaining it. P. Kestner. No. 1,419,057; June 6.
- Educational and amusement device. J. Galleazzl. No. 1,414,467; Aug. 1.
- Educational and entertaining device. W. Favreau. No. 1,405,193; Jan. 31.
- Educational apparatus. A. A. Schnitker. No. 1,433,850; Oct. 31.
- Educational apparatus. W. Stranders. No. 1,428,456; Sept. 5.
- Educational apparatus. W. P. Weiss. No. 1,417,434; May 23.
- Educational appliance. W. M. Rogerson. No. 1,435,660; Nov. 14.
- Educational board. V. O. Watkins. No. 1,406,592; Feb. 14.
- Educational device. J. W. Benton. No. 1,428,206; Sept. 5.
- Educational device. H. Hirsch. No. 1,417,828; May 30.
- Educational device. J. N. Meyers. No. 1,419,882; June 13.
- Educational device. M. Murray. No. 1,405,063; Jan. 31.
- Educational-test device. J. E. McDade. No. 1,436,997; Nov. 28.
- Educational tests, Means for. M. A. Bailey. No. 1,437,037; Nov. 28.
- Effervescent mixture. W. E. Stokes. No. 1,427,979; Sept. 5.
- Effluents, Apparatus and method for separating matter from. G. Crosby. No. 1,407,936; Feb. 28.
- Egg and other cases, Flat for. G. H. Williams. No. 1,425,820; Aug. 15.
- Egg and producing same, Preserved. M. Kasser. No. 1,424,484; Aug. 1.
- Egg beater. L. J. Dekin. No. 1,437,133; Nov. 28.
- Egg beater. A. C. Hayward. No. 1,439,102; Dec. 19.
- Egg beater. S. C. Hills. No. 1,433,508; Oct. 24.
- Egg beater. R. S. Lower. No. 1,425,026; Aug. 8.
- Egg beater. M. H. Roberts. No. 1,413,874; Apr. 25.
- Egg beater. U. G. Teetsell. No. 1,406,778; Feb. 14.
- Egg beater. R. H. Wolfe. No. 1,409,209; Mar. 14.
- Egg beater. J. Ziemba. No. 1,410,522; Mar. 21.
- Egg boiler and poacher, Automatic. H. M. Hayward. No. 1,410,754; Mar. 28.
- Egg breaker and separator. J. A. Becker. No. 1,409,649; Mar. 14.
- Egg candling and handling device. W. Davis. No. 1,407,191; Feb. 21.
- Egg carrier. M. A. Benedict. No. 1,426,246; Aug. 15.
- Egg carton. P. Berkey. No. 1,430,617; Oct. 3.
- Egg case. J. S. Brown and R. R. Johnson. No. 1,416,604; May 16.
- Egg case. A. M. Crow. No. 1,439,612; Dec. 19.
- Egg-case fillers, Lock for collapsible. B. Rottenberg. No. 1,412,709; Apr. 11.
- Egg container. M. F. Biernd. No. 1,416,934; May 23.
- Egg crate. A. A. Herbermann. No. 1,412,742; Apr. 11.
- Egg crate. E. F. Willmann and W. Kuersten. No. 1,430,205; Sept. 26.
- Egg crates, Filler for. I. Perris. (Reissue.) No. 15,321; Mar. 28.
- Egg-dipping machine. O. F. Holmberg. No. 1,418,927; June 6.
- Egg grader. C. Z. Shallit. No. 1,439,133; Dec. 19.
- Egg grader or scale. R. V. B. Lincoln. No. 1,432,880; Oct. 24.
- Egg-handling apparatus. J. Broadley. No. 1,434,587; Nov. 7.
- Egg holder. A. Polo and J. Anelli. No. 1,406,222; Feb. 14.
- Egg holder and carrier. H. L. G. Moore. No. 1,429,610; Sept. 19.
- Egg-laying indicator. C. Z. Shallit. No. 1,439,132; Dec. 19.
- Egg, Manufactured. A. D. Greenlee. No. 1,438,232; Dec. 12.
- Egg packing. L. Mann and M. Koppelman. No. 1,413,047; Apr. 18.
- Egg-preserving compound. E. Victorine. No. 1,423,053; July 18.
- Egg protector. F. Hostetter. No. 1,419,905; June 13.
- Egg separator. S. E. Braddock. No. 1,407,371; Feb. 21.
- Egg separator. B. Kainer. No. 1,428,594; Sept. 12.
- Egg-shell-cutting device, Raw. N. S. Brody. No. 1,403,383; Jan. 10.
- Egg-storing machine. S. C. Cross. No. 1,434,649; Nov. 7.
- Egg turner. W. H. Bihn. No. 1,422,250; July 11.
- Egg, Vermin-destroying nest. E. T. Stuart. No. 1,425,348; Aug. 8.
- Eggs and other products, Folding crate for. C. L. Leonard. No. 1,401,993; Jan. 3.
- Eggs and process thereof, Preserved. A. K. Epstein. No. 1,426,559; Aug. 22.
- Eggs and the like, Shipping case for. D. A. Cantelon and J. Zuefle. No. 1,437,930; Dec. 5.
- Eggs, Apparatus for the artificial incubation of. F. L. Moll. No. 1,438,455; Dec. 12.
- Eggs, Apparatus for washing and cleaning. C. J. Williamson. No. 1,423,059; July 18.
- Eggs for storage, Preparing. V. Clairemont. No. 1,419,956; June 20.
- Eggs, fruit, and the like, Carrier for. A. H. Degginger. No. 1,412,779; Apr. 11.
- Eggs, Means for use in poaching. E. S. Musgrave. No. 1,417,679; May 30.
- Ejector. E. Hahn. No. 1,420,543; June 20.
- Ejector. C. F. Higgins and J. Gunn. No. 1,413,733; Apr. 25.
- Ejector. H. F. Schmidt. No. 1,437,819; Dec. 5.
- Elastic-fluid-operated ejector. A. E. L. Scanes. No. 1,415,406; May 9.

- Elastic roller. K. Fukuda. No. 1,417,240; May 23.
 Elastic wheel. S. C. Hatfield. No. 1,410,300; Mar. 21.
 Elastic wheel. F. Mathieu. No. 1,436,278; Nov. 21.
 Elastic wheel. L. Micha. No. 1,426,587; Aug. 22.
 Elbow-making machine. A. D. Kumpf. No. 1,439,559; Dec. 19.
 Electric accumulator and the manufacture thereof. Negative plate for. A. Pouchain. No. 1,429,300; Sept. 19.
 Electric and gas heater, Combination. C. A. Muir. No. 1,418,667; June 6.
 Electric apparatus and making the same, Supported laminations for. H. F. Stratton. No. 1,432,637; Oct. 17.
 Electric apparatus for propelling projectiles. A. L. O. Fauchon-Villeplee. No. 1,421,435; July 4.
 Electric appliance. H. Catlin. No. 1,408,268; Feb. 28.
 Electric-appliance receiving box. M. Guett. No. 1,411,086; Mar. 28.
 Electric-arc striking mechanism. C. M. Langfeld. No. 1,407,761; Feb. 28.
 Electric-arc welding. A. Churchward. No. 1,416,449; May 16.
 Electric-arc-welding system. O. H. Escholz. No. 1,416,007; May 16.
 Electric arcs, Method and means for breaking. E. O. Schwelzer. No. 1,413,997; Apr. 25.
 Electric arrester. P. Bendmann. No. 1,413,093; Apr. 18.
 Electric battery. R. C. Benner and H. F. French. No. 1,425,573; Aug. 15.
 Electric battery. R. C. Benner and H. F. French. Nos. 1,438,084-5; Dec. 5.
 Electric battery. H. F. French. No. 1,416,704; May 23.
 Electric battery. F. M. Holmes. No. 1,433,136; Oct. 24.
 Electric battery. A. K. Huntley. No. 1,407,035; Feb. 21.
 Electric battery. W. R. Loveman. No. 1,408,525; Mar. 7.
 Electric battery. E. L. Marshall. No. 1,434,303; Oct. 31.
 Electric battery. D. C. Reed. No. 1,437,553; Dec. 5.
 Electric battery cell. A. S. Lyhne. No. 1,432,347; Oct. 17.
 Electric battery or accumulator, Secondary. H. Dean. No. 1,426,966; Aug. 22.
 Electric boiler. H. E. Cohen. No. 1,420,693; June 27.
 Electric brake. A. W. McAuly. No. 1,407,207; Feb. 21.
 Electric brake controller. E. B. Thurston. No. 1,435,565; Nov. 14.
 Electric braking. P. W. Forsberg. No. 1,421,931; July 4.
 Electric-bulb protector. W. R. Smith. No. 1,403,273; Jan. 10.
 Electric cables, Terminal box for. C. R. Young and H. N. Van Deusen. No. 1,422,910; July 18.
 Electric call system for hotels. I. A. Hill. No. 1,411,497; Apr. 4.
 Electric candle and the like. C. J. Klein. No. 1,417,532; May 30.
 Electric-candle-lighting fixture. W. R. Kahns. No. 1,417,330; May 23.
 Electric cell. P. P. Politowski. No. 1,402,956; Jan. 10.
 Electric-circuit control, System of. J. B. Heard. No. 1,406,731; Feb. 14.
 Electric-circuit-protecting device. S. N. Baruch. No. 1,427,255; Aug. 29.
 Electric circuit, Reproducing variations in an. P. C. Hewitt. No. 1,402,932; Jan. 10.
 Electric circuits. W. L. Casper. No. 1,432,965; Oct. 24.
 Electric circuits, Controller for. C. S. Schroeder. No. 1,433,237; Oct. 24.
 Electric circuits, Controlling device for. J. Alles. No. 1,412,591; Apr. 11.
 Electric circuits, Controlling device for. C. Verrando. No. 1,424,328; Aug. 1.
 Electric circuits, Specific-gravity control for. E. I. Pearson. No. 1,412,959; Apr. 18.
 Electric clip. M. Krokavetz. No. 1,432,343; Oct. 17.
 Electric coil box. E. A. Sandling. No. 1,419,691; June 13.
 Electric condenser. F. S. Smith. No. 1,422,312; July 11.
 Electric-conductor connector. A. W. Caps. No. 1,410,651; Mar. 28.
 Electric-conductor support and system. S. S. Matthes. No. 1,402,000; Jan. 3.
 Electric conductors, Clamp device for. T. Varney. No. 1,420,790; June 27.
 Electric conductors, Connection for. A. G. Karkau. No. 1,420,846; June 27.
 Electric conductors, Junction box for. R. S. O'Neil. No. 1,426,210; Aug. 15.
 Electric conductors, Making. J. Lind. No. 1,429,441; Sept. 19.
 Electric connection. E. S. Mix. No. 1,403,185; Jan. 10.
 Electric connector. E. A. Knew. No. 1,422,992; July 18.
 Electric connector. A. Meyer. No. 1,433,397; Oct. 24.
 Electric connector. H. G. Ross. No. 1,431,542; Oct. 10.
 Electric contact. J. B. Chemidlin. No. 1,415,795; May 9.
 Electric contact wires, Means for the suspension of. M. Semenza. No. 1,423,582; July 25.
 Electric contacting device. A. C. Heap. No. 1,402,420; Jan. 3.
 Electric control system. H. M. Stoller. No. 1,426,791; Aug. 22.
 Electric controller. N. D. Levin. No. 1,423,126; July 18.
 Electric controller. C. E. Ogden. No. 1,410,073; Mar. 21.
 Electric controller. W. Schwagermann. No. 1,438,727; Dec. 12.
 Electric controller, Automatic. P. V. McCash and M. C. Levinson. No. 1,436,971; Nov. 28.
 Electric controlling apparatus. F. H. Bullinger. No. 1,423,907; July 25.
 Electric controlling system. T. Zweigbergk. No. 1,412,589; Apr. 11.
 Electric cooking utensil. H. Kruesheld. No. 1,405,043; Jan. 31.
 Electric-cord anchorage. H. E. Hoover. No. 1,402,860; Jan. 10.
 Electric-cord retainer. G. Potstada. No. 1,418,462; June 6.
 Electric-cord take-up. J. E. Busher and T. M. Burns. No. 1,432,964; Oct. 24.
 Electric coupling. C. H. Tomlinson. No. 1,422,905; July 18.
 Electric curler. M. G. Yeager. No. 1,424,546; Aug. 1.
 Electric current between rotating and nonrotating members, Device for transmitting. H. K. Angström. No. 1,433,331; Oct. 24.
 Electric-current-changing means. C. J. Myers. No. 1,424,256; Aug. 1.
 Electric-current-collecting device. S. S. Matthes. No. 1,416,045; May 16.
 Electric-current conductors, Method of and means for joining. J. F. Schleper. No. 1,419,523; June 13.
 Electric-current controller. J. C. Arnold. No. 1,408,907; Mar. 7.
 Electric-current controller. E. Naether. No. 1,418,726; June 6.
 Electric-current controller and spark intensifier. R. M. Sutherlin. No. 1,413,140; Apr. 18.
 Electric-current-controlling device. H. P. Donle. No. 1,435,455; Nov. 14.
 Electric-current distribution, System of. C. A. Turner. No. 1,402,386; Jan. 3.
 Electric-current making, breaking, and reversing device. J. H. Lehman. No. 1,415,369; May 9.
 Electric current, Method of and apparatus for controlling. P. C. Hewitt. No. 1,402,933; Jan. 10.
 Electric-current networks, Means for indicating and disconnecting defective branches from. M. Höchstädter. No. 1,432,556; Oct. 17.
 Electric-current-transmission device. J. Schmid-Roost. No. 1,411,939; Apr. 4.
 Electric currents, Apparatus for controlling unidirectional. A. F. Nesbit. No. 1,437,439; Dec. 5.
 Electric currents, Apparatus for generating. C. T. Mason. No. 1,416,110; May 16.
 Electric currents, Apparatus for generating high-frequency. A. Heyland. No. 1,417,913; May 30.
 Electric currents, Method and apparatus for production and utilization of. P. C. Hewitt. No. 1,402,931; Jan. 10.
 Electric cut-out box. J. C. Regan. No. 1,406,683; Feb. 14.
 Electric direct-current generator, Dynamo-. R. Boin. No. 1,433,597; Oct. 31.
 Electric discharge apparatus. R. A. Heising. No. 1,413,732; Apr. 25.
 Electric discharge device. H. W. Weinhardt. No. 1,432,931; Oct. 24.
 Electric discharge device and operating circuits therefor. W. Wilson. No. 1,403,726; Jan. 17.
 Electric discharges, Apparatus for producing cold. J. Kuhlenschmidt. No. 1,437,760; Dec. 5.
 Electric discharging tube. B. Donath. No. 1,416,623; May 16.
 Electric drill. W. B. Engelhardt. No. 1,434,202; Oct. 31.
 Electric elevator. C. A. Dillon. No. 1,410,285; Mar. 21.
 Electric energy to movable elements, Transmission of. E. G. Sohlsbeig. No. 1,408,838; Mar. 7.
 Electric engine. H. Mace. No. 1,428,489; Sept. 5.
 Electric exchange system. A. T. Brown. (Reissue.) No. 15,261; Jan. 10.
 Electric fan. B. Schmelzer. No. 1,416,384; May 16.
 Electric fitting. H. Catlin. No. 1,411,161; Mar. 28.
 Electric fixture. R. B. Benjamin. No. 1,404,732; Jan. 31.
 Electric fixture. F. L. Butler. No. 1,423,646; July 25.
 Electric fixture. W. A. Harvey. No. 1,434,010; Oct. 31.
 Electric fixture. J. F. Pedersen. No. 1,431,325; Oct. 10.
 Electric-fixture-display device. C. K. Theobald. No. 1,418,215; May 30.
 Electric-fixture fitting and making same. D. Goldich. No. 1,407,527; Feb. 21.
 Electric fixtures, Switch-supporting attachment for. F. L. Butler. No. 1,423,645; July 25.
 Electric flush receptacle. W. J. Newton. No. 1,439,438; Dec. 19.
 Electric fly killer. J. H. Turpin. No. 1,412,497; Apr. 11.
 Electric fuel vaporizer. F. H. Mark and H. J. McConochy. No. 1,432,712; Oct. 17.
 Electric furnace. M. H. Bennett. No. 1,404,734; Jan. 31.
 Electric furnace. C. H. Carpenter. No. 1,409,669; Mar. 14.
 Electric furnace. S. N. Castle. No. 1,420,687; June 27.
 Electric furnace. M. S. Clawson. No. 1,429,489; Sept. 19.
 Electric furnace. O. A. Colby. Nos. 1,412,511-12; Apr. 11.
 Electric furnace. O. A. Colby. No. 1,435,211; Nov. 14.
 Electric furnace. E. F. Collins. No. 1,432,442; Oct. 17.
 Electric furnace. T. S. Curtis. No. 1,433,448; Oct. 24.
 Electric furnace. H. de Nolly. No. 1,417,303; May 23.

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- Electric furnace. R. A. Driscoll. No. 1,421,185; June 27.
 Electric furnace. F. A. J. Fitz Gerald. No. 1,434,053; Oct. 31.
 Electric furnace. L. Friderich. No. 1,433,883; Oct. 31.
 Electric furnace. W. S. Hadaway, Jr. No. 1,410,566; Mar. 28.
 Electric furnace. E. A. Hanff. No. 1,430,987; Oct. 3.
 Electric furnace. C. I. Hayes. No. 1,429,286; Sept. 19.
 Electric furnace. E. H. Horstkotte. No. 1,427,814; Sept. 5.
 Electric furnace. A. Jones. No. 1,414,362; May 2.
 Electric furnace. K. Leander. No. 1,420,561; June 20.
 Electric furnace. W. Meinersmann. No. 1,434,395; Nov. 7.
 Electric furnace. F. W. Moffat. No. 1,413,678; Apr. 25.
 Electric furnace. F. F. Mueller and R. W. Harris. No. 1,433,404; Oct. 24.
 Electric furnace. I. Rennerfelt. Nos. 1,428,908-9; Sept. 12.
 Electric furnace. I. Rennerfelt. No. 1,431,424; Oct. 10.
 Electric furnace. F. W. Sperr, Jr., and H. J. Rose. No. 1,418,984; June 6.
 Electric furnace. B. Tang. No. 1,430,861; Oct. 3.
 Electric furnace. F. Tharaldsen. No. 1,417,953; May 30.
 Electric furnace. A. Westerberg. No. 1,412,764; Apr. 11.
 Electric-furnace construction. W. E. F. and A. B. Bradley. No. 1,411,158; Mar. 28.
 Electric furnaces. Electrode holder for. J. Young. No. 1,432,823; Oct. 24.
 Electric gauge. E. F. Gallaudet. No. 1,424,637; Aug. 1.
 Electric generating system. C. P. Brockway. No. 1,434,988; Nov. 7.
 Electric generating unit, Automatic. W. W. Bucher. No. 1,422,027; July 4.
 Electric generator. W. F. Bouché. No. 1,405,180; Jan. 31.
 Electric generator. L. J. Le Pontois. No. 1,422,584; July 11.
 Electric generator unit, Engine-driven. C. E. Reddig. No. 1,432,903; Oct. 24.
 Electric generators. Automatic cut-out for. E. J. Tomlinson. No. 1,415,497; May 9.
 Electric governing system. W. W. Dean. No. 1,419,233; June 13.
 Electric hand drills, Case for. A. H. Sweetland. No. 1,411,539; Apr. 4.
 Electric heater. P. J. H. Bernard. No. 1,428,071; Sept. 5.
 Electric heater. C. M. Bosworth and A. G. Boesel. No. 1,415,015; May 9.
 Electric heater. A. A. Buck. No. 1,429,402; Sept. 19.
 Electric heater. S. M. and J. H. Carmean. No. 1,416,688; May 23.
 Electric heater. P. Daniel. No. 1,457,094; Aug. 29.
 Electric heater. H. H. C. Dunwoody. No. 1,436,867; Nov. 28.
 Electric heater. T. M. Feder. No. 1,426,166; Aug. 15.
 Electric heater. E. O. Fredericks. No. 1,426,562; Aug. 22.
 Electric heater. E. E. Gold. No. 1,416,459; May 16.
 Electric heater. W. S. Hadaway, Jr. No. 1,408,502; Mar. 7.
 Electric heater. W. W. Hale. No. 1,418,917; June 6.
 Electric heater. H. Kruesheld. No. 1,417,073; May 23.
 Electric heater. R. G. Ledig. No. 1,415,660; May 9.
 Electric heater. T. A. Lewis and A. L. Dunham. No. 1,439,524; Dec. 19.
 Electric heater. E. N. Lightfoot. Nos. 1,403,330-1; Jan. 10.
 Electric heater. E. N. Lightfoot. No. 1,433,465; Oct. 24.
 Electric heater. E. N. Lightfoot. No. 1,440,805; Dec. 26.
 Electric heater. B. W. Macy. No. 1,429,898; Sept. 19.
 Electric heater. F. M. May. No. 1,416,225; May 16.
 Electric heater. A. Papini. No. 1,440,171; Dec. 26.
 Electric heater. R. J. Patterson. No. 1,433,472; Oct. 24.
 Electric heater. S. I. Phelps. No. 1,432,491; Oct. 17.
 Electric heater. J. R. Quinn. No. 1,416,872; May 23.
 Electric heater. J. F. Roberts. No. 1,403,639; Jan. 17.
 Electric heater. H. E. Roys. No. 1,426,604; Aug. 22.
 Electric heater. M. Simon. No. 1,416,897; May 23.
 Electric heater. U. D. Straw. No. 1,420,160; June 20.
 Electric heater. N. Theofilos. No. 1,406,912; Feb. 14.
 Electric heater. L. J. Tracy. No. 1,417,427; May 23.
 Electric heater. N. Turfaro. No. 1,410,400; Mar. 21.
 Electric heater. F. G. Van Dyke. No. 1,418,496; June 6.
 Electric heater. F. G. Van Dyke. No. 1,419,330; June 13.
 Electric heater. J. J. Vetter and C. W. Hansen. No. 1,404,497; Jan. 24.
 Electric-heater controlling device. A. Longoria. No. 1,416,482; May 16.
 Electric heaters for outdoor use. E. A. Everett. No. 1,408,183; Feb. 28.
 Electric heater for vapor fuel. B. H. Pomeroy. No. 1,412,891; Apr. 18.
 Electric heater, High-temperature. S. I. Phelps. No. 1,402,376; Jan. 3.
 Electric heater, Submersible. G. S. Campbell and O. A. Sommermeyer. No. 1,437,166; Nov. 28.
 Electric heaters and regulating resistances, Resistance unit for. W. Schulz. No. 1,413,939; Apr. 25.
 Electric heating apparatus. T. D. Finizio. No. 1,417,154; May 23.
 Electric heating apparatus. W. S. Hadaway, Jr. No. 1,415,550; May 9.
 Electric heating apparatus. W. S. Moody. No. 1,436,891; Nov. 28.
 Electric heating appliances, Alloy for use in. G. H. Lofts. No. 1,425,111; Aug. 8.
 Electric heating appliances, Automatic switch for. B. G. C. Stephens. No. 1,422,898; July 18.
 Electric heating device. O. A. Colby. No. 1,415,993; May 16.
 Electric heating device. S. Halle. No. 1,412,735; Apr. 11.
 Electric heating device. E. H. and A. L. Ruehl. No. 1,408,403; Feb. 28.
 Electric heating device, Pilot signal for. R. P. Farrell and C. E. Moon. No. 1,425,462; Aug. 8.
 Electric heating element. P. J. H. Bernard. No. 1,407,918; Feb. 28.
 Electric heating element. G. Potstada. No. 1,402,889; Jan. 10.
 Electric heating fabric. P. E. Charles. No. 1,419,613; June 13.
 Electric heating unit. H. Kruesheld. No. 1,404,979; Jan. 31.
 Electric heating unit. L. R. McClatchie. No. 1,431,407; Oct. 10.
 Electric high-velocity classifier. C. W. J. Hedberg. No. 1,416,089; May 16.
 Electric house installations, Distributing board for. M. Breitner. No. 1,427,779; Sept. 5.
 Electric ignition dynamo. J. Schneider, E. Hurlimann, and F. Billon. No. 1,411,304; Apr. 4.
 Electric illumination. W. H. Cook. No. 1,417,457; May 23.
 Electric induction furnace. A. Hiorth. No. 1,410,304; Mar. 21.
 Electric installation. M. Schenkel. No. 1,433,155; Oct. 24.
 Electric installation, Conduit cap for. W. H. Vibber. No. 1,407,307; Feb. 21.
 Electric installation, Safety box for. G. B. Wadsworth. No. 1,403,659; Jan. 17.
 Electric installation, Swivel conduit cap for. W. H. Vibber. No. 1,407,308; Feb. 21.
 Electric instruments, Temperature compensation for. R. H. Sullivan. No. 1,411,311; Apr. 4.
 Electric iron. G. R. Blakesley. No. 1,438,742; Dec. 12.
 Electric iron. T. C. Plath. No. 1,413,057; Apr. 18.
 Electric iron. J. M. Seche. No. 1,419,173; June 13.
 Electric iron. F. B. Widmayer. No. 1,409,131; Mar. 7.
 Electric iron fitted with a current indicator. G. H. Lofts. No. 1,407,430; Feb. 21.
 Electric lifting jack. J. A. Anglada. No. 1,414,683; May 2.
 Electric light. C. H. Burton. No. 1,434,041; Oct. 31.
 Electric-light bulb. A. A. Flory. No. 1,411,716; Apr. 4.
 Electric-light bulb. C. H. and H. E. Quackenbush. No. 1,425,606; Aug. 15.
 Electric-light bulb, Theftproof. D. R. Coughlin. No. 1,437,723; Dec. 5.
 Electric-light display system. J. H. Hammond, Jr. No. 1,419,256; June 13.
 Electric-light fixture. R. M. Beard. No. 1,421,382; July 4.
 Electric-light fixture. O. Kupferman. No. 1,410,325; Mar. 21.
 Electric-light fixture. P. J. Pfeiffer. No. 1,416,124; May 16.
 Electric-light fixture. G. E. Villaret. No. 15,455; Sept. 12.
 Electric-light fixture, Combination. R. B. Benjamin. No. 1,404,732; Jan. 31.
 Electric-light fixtures, Coupling for. W. J. Gorman, L. Frankel, and A. A. Wohlgezon. No. 1,431,450; Oct. 10.
 Electric light, Interchangeable globe holder for an. E. A. Gillinder. No. 1,425,852; Aug. 15.
 Electric light, Portable. J. T. Drufva. No. 1,432,164; Oct. 17.
 Electric light, Portable. H. Rothenberg. No. 1,433,913; Oct. 31.
 Electric-light socket. M. H. Davis. No. 1,411,002; Mar. 28.
 Electric lights and other purposes, Holder for. P. J. Timberlake. No. 1,406,913; Feb. 14.
 Electric lights, Circuit closer for controlling. A. E. Puermer. No. 1,411,300; Apr. 4.
 Electric lights, Cord support for. E. R. Frost. No. 1,424,999; Aug. 8.
 Electric lights, etc., Holder for. P. J. Timberlake. No. 1,402,685; Jan. 3.
 Electric-lighted vanity case. L. Marko. No. 1,405,532; Feb. 7.
 Electric lighter. A. Zecchini. No. 1,437,701; Dec. 5.
 Electric-lighting fixture. R. M. Beard. No. 1,410,985; Mar. 28.
 Electric-lighting fixture. L. G. Clark. No. 1,426,360; Aug. 22.
 Electric-lighting fixture. P. L. Haislip. No. 1,424,095; July 25.
 Electric-lighting fixtures, Stem for. E. Rockoff. No. 1,423,683; July 25.
 Electric-lighting mechanism. H. G. Lewis and W. S. Mayer. No. 1,426,490; Aug. 22.
 Electric-lighting system. J. H. Allen. No. 1,434,727; Nov. 7.
 Electric-lighting system. H. E. Borger. No. 1,404,187; Jan. 24.
 Electric liquid heater. W. A. Andrews. No. 1,405,475; Feb. 7.
 Electric lock. H. D. Wethling. No. 1,425,428; Aug. 8.

- Electric-machine armature, Dynamo-. H. E. Borger. No. 1,416,256; May 16.
- Electric-machine construction, Dynamo-. C. E. Johnson. No. 1,428,889; Sept. 12.
- Electric machine, Dynamo-. T. L. R. Cooper and J. C. Todman. No. 1,408,931; Mar. 7.
- Electric machine, Dynamo-. R. E. Hellmund. No. 1,431,952; Oct. 17.
- Electric machine, Dynamo-. P. H. Kuhn. No. 1,402,870; Jan. 10.
- Electric machine, Dynamo-. B. M. Leece. No. 1,411,442; Apr. 4.
- Electric machine, Dynamo-. R. Lundell. No. 1,401,996; Jan. 3.
- Electric machine, Dynamo-. A. H. Mittag. No. 1,423,958; July 25.
- Electric machine, Dynamo-. A. H. Neuland. No. 1,418,390; June 6.
- Electric machine, Dynamo-. H. W. Taylor. No. 1,430,863; Oct. 3.
- Electric machine, Dynamo-. H. W. Taylor, F. H. Clough, and F. P. Whitaker. No. 1,430,862; Oct. 3.
- Electric machine, Dynamo-. W. A. Turbayne. No. 1,434,974; Nov. 7.
- Electric machine, Dynamo-. H. Weichsel. No. 1,411,393; Apr. 4.
- Electric machine, Dynamo-. R. B. Williamson. Nos. 1,418,856-7; June 6.
- Electric machine, Dynamo-. H. M. Wood. No. 1,430,712; Oct. 3.
- Electric machine, Magneto-. M. M. Cardellino. No. 1,405,275; Jan. 31.
- Electric machine, Multidisk. R. H. Wappler. No. 1,422,395; July 11.
- Electric machine of the inductive type, Single-phase dynamo-. L. W. Chubb. No. 1,427,360; Aug. 29.
- Electric machine, Polymorphous dynamo-. A. Nyman. No. 1,404,885; Jan. 31.
- Electric machine tool. I. Newman. No. 1,431,749; Oct. 10.
- Electric machines, Apparatus for regulating the voltage of dynamo-. A. J. Jullin. No. 1,421,246; June 27.
- Electric machines, Arc barrier for dynamo-. J. L. Burnham. No. 1,423,996; July 25.
- Electric machines, Armature for dynamo-. N. R. Haas. No. 1,406,184; Feb. 14.
- Electric machines, Blower for dynamo-. C. W. Starker. No. 1,433,752; Oct. 31.
- Electric machines, Brush holder for. E. Dörfel. No. 1,422,188; July 11.
- Electric machines, Coil support for dynamo-. W. K. McAfee. No. 1,427,401; Aug. 29.
- Electric machines, Control of. F. H. Kroger. No. 1,403,172; Jan. 10.
- Electric machines, Controlling and regulating apparatus for alternating-current dynamo-. F. W. Meyer. No. 1,411,862; Apr. 4.
- Electric machines, Instrument for locating defective coils in. J. B. West. No. 1,432,003; Oct. 17.
- Electric machines, Making dynamo-. A. Kimble. No. 1,408,800; Mar. 7.
- Electric machines, Operation, regulation, and control of dynamo-. F. W. Meyer. No. 1,408,758; Mar. 7.
- Electric machines, Ventilation for dynamo-. H. S. Baldwin. No. 1,439,990; Dec. 26.
- Electric machinery, Dynamo-. F. Creedy. No. 1,418,779; June 6.
- Electric meters, Adjusting. O. T. Bláthy. No. 1,427,776; Sept. 5.
- Electric motor. V. G. Apple. No. 1,407,508; Feb. 21.
- Electric motor. E. C. Ballman. No. 1,431,620; Oct. 10.
- Electric motor. E. L. P. Colardeau. No. 1,416,612; May 16.
- Electric motor. G. B. Coleman. No. 1,438,361; Dec. 12.
- Electric motor. L. L. Dodds. No. 1,405,502; Feb. 7.
- Electric motor. J. S. Holliday. No. 1,437,421; Dec. 5.
- Electric motor. H. E. Hoover. No. 1,424,164; Aug. 1.
- Electric motor. W. R. Ray. No. 1,427,416; Aug. 29.
- Electric motor. C. L. Weltner. No. 1,421,634; July 4.
- Electric motor. R. H. Williams. No. 1,432,584; Oct. 17.
- Electric-motor-driven jack. F. A. Kirstatter. No. 1,404,862; Jan. 31.
- Electric motor, Portable. O. P. Erhardt. No. 1,426,367; Aug. 22.
- Electric-motor short-circuiting mechanism. H. I. Finch. No. 1,435,827; Nov. 14.
- Electric-motor switch. W. G. Winter. No. 1,406,432; Feb. 14.
- Electric motors and the like, Adjustable-speed starting device for. G. O. Wilans. No. 1,431,349; Oct. 10.
- Electric motors, Commutator for. F. H. Hartzell. No. 1,410,914; Mar. 28.
- Electric motors, Controller for. G. E. Adams. No. 1,404,255; Jan. 24.
- Electric motors, Manufacture of commutators for. H. D. Stone. No. 1,407,776; Feb. 28.
- Electric precipitator, Self-cleaning. H. F. Fisher. No. 1,432,266; Oct. 24.
- Electric protection system. J. P. Williams. No. 1,436,926; Nov. 28.
- Electric regulation. J. L. Creveling. No. 1,404,933; Jan. 31.
- Electric regulation. J. L. Creveling. Nos. 1,412,273-4; Apr. 11.
- Electric regulation. J. L. Creveling. No. 1,412,339; Apr. 11.
- Electric regulation. J. L. Creveling. No. 1,417,143; May 23.
- Electric regulation. J. L. Creveling. Nos. 1,419,493-4; June 13.
- Electric regulation. J. L. Creveling. Nos. 1,420,817-20; June 27.
- Electric regulation. J. L. Creveling. No. 1,421,060; June 27.
- Electric regulation. J. L. Creveling. No. 1,435,215; Nov. 14.
- Electric regulation. J. L. Creveling. No. 1,435,380; Nov. 14.
- Electric regulation. J. L. Creveling. No. 1,435,701; Nov. 14.
- Electric regulation. J. L. Creveling. No. 1,437,132; Nov. 28.
- Electric regulation. J. L. Creveling. No. 1,437,724; Dec. 5.
- Electric regulation. J. L. Creveling. No. 1,438,934; Dec. 12.
- Electric regulation. W. W. Hunzicker. No. 1,413,276; Apr. 18.
- Electric regulator. R. D. Conway. Nos. 1,438,944-7; Dec. 19.
- Electric regulator. J. L. Creveling. No. 1,412,272; Apr. 11.
- Electric regulator. T. M. Pusey. No. 1,439,639; Dec. 19.
- Electric regulator. W. A. Turbayne. No. 1,405,956; Feb. 7.
- Electric regulator. P. I. Wold. No. 1,438,976; Dec. 19.
- Electric regulator. P. I. Wold and O. E. Buckley. No. 1,434,869; Nov. 7.
- Electric resistance element. W. P. Bovard. No. 1,433,932; Oct. 31.
- Electric resistance elements, Mending. N. Carrico. No. 1,415,524; May 9.
- Electric resistance heater. H. G. Lemoine. No. 1,431,825; Oct. 10.
- Electric resistance heater for high temperatures. B. Bauer. No. 1,426,245; Aug. 15.
- Electric reverberatory furnace. R. M. Keeney. No. 1,438,381; Dec. 12.
- Electric reversing switch. A. Frohne. No. 1,402,757; Jan. 10.
- Electric riveting device. W. O. Wentworth. No. 1,403,529; Jan. 17.
- Electric service switch. G. A. Burnham. No. 1,429,275; Sept. 19.
- Electric signal alarm. A. T. Pickett. No. 1,425,279; Aug. 8.
- Electric signal system. J. D. Nelson. No. 1,403,561; Jan. 17.
- Electric smoothing iron. J. G. Fisher. No. 1,435,831; Nov. 14.
- Electric snap switch. C. S. Price. No. 1,432,898; Oct. 24.
- Electric socket. J. Cuthbert. No. 1,404,344; Jan. 24.
- Electric starting motor. H. Steinhart. No. 1,438,728; Dec. 12.
- Electric storage battery. H. Bardt. No. 1,425,163; Aug. 8.
- Electric storage battery. W. L. Gill. No. 1,425,469; Aug. 8.
- Electric storage battery. E. Hacking. No. 1,416,195; May 16.
- Electric storage battery. W. Knoblock. No. 1,409,895; Mar. 14.
- Electric supply mains, Junction box for. A. Graf. No. 1,414,874; May 2.
- Electric switch. C. E. Anderson. No. 1,437,332; Nov. 28.
- Electric switch. E. G. K. Anderson. No. 1,403,222; Jan. 10.
- Electric switch. R. B. Benjamin. No. 1,426,811; Aug. 22.
- Electric switch. C. H. Bissell. No. 1,430,718; Oct. 3.
- Electric switch. M. Borge, Jr. No. 1,410,795; Mar. 28.
- Electric switch. E. G. Buresch. No. 1,433,120; Oct. 24.
- Electric switch. G. A. Burnham. No. 1,409,997; Mar. 21.
- Electric switch. G. A. Burnham. No. 1,413,156; Apr. 18.
- Electric switch. H. Catlin. No. 1,423,306; July 18.
- Electric switch. P. H. Chase. No. 1,408,690; Mar. 7.
- Electric switch. W. A. Chryst. No. 1,406,171; Feb. 14.
- Electric switch. H. B. Cornish. No. 1,420,472; June 20.
- Electric switch. H. P. Donle. No. 1,424,809; Aug. 8.
- Electric switch. J. Eaton. No. 1,413,397; Apr. 18.
- Electric switch. J. H. George. No. 1,411,620; Apr. 4.
- Electric switch. B. E. Getchell. No. 1,407,852; Feb. 28.
- Electric switch. A. C. Gilbert. No. 1,424,720; Aug. 1.
- Electric switch. L. A. Hanson. No. 1,408,592; Mar. 7.
- Electric switch. G. H. Hart. No. 1,408,999; Mar. 7.
- Electric switch. G. H. Hart. No. 1,430,645; Oct. 3.
- Electric switch. C. W. H'Doubler. No. 1,408,177; Feb. 28.
- Electric switch. H. Kirtley. No. 1,412,354; Apr. 11.
- Electric switch. A. L. Kitchens. No. 1,431,818; Oct. 10.
- Electric switch. C. J. Klein. No. 1,408,097; Feb. 28.
- Electric switch. C. J. Klein. No. 1,431,235; Oct. 10.
- Electric switch. L. F. Kries. No. 1,404,865; Jan. 31.
- Electric switch. E. A. Kuen. No. 1,417,925; May 30.
- Electric switch. C. J. Ledwidge. No. 1,434,217; Oct. 31.
- Electric switch. G. J. Meuer. No. 1,436,045; Nov. 21.
- Electric switch. R. H. Miller. No. 1,427,312; Aug. 29.
- Electric switch. J. L. Milton. No. 1,405,537; Feb. 7.

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- Electric switch. A. H. Nero. No. 1,417,405; May 23.
 Electric switch. A. H. Nero. No. 1,420,569; June 20.
 Electric switch. H. G. Pape. No. 1,412,570; Apr. 11.
 Electric switch. J. M. Ronalter. No. 1,428,186; Sept. 5.
 Electric switch. R. A. Schoenberg. No. 1,409,519; Mar. 14.
 Electric switch. C. C. Stirling. No. 1,421,853; July 4.
 Electric switch. C. C. Stirling. No. 1,423,274; July 18.
 Electric switch. H. A. Stoddard. No. 1,403,718; Jan. 17.
 Electric switch. D. N. Thompson. No. 1,430,770; Oct. 3.
 Electric switch. J. S. Timmons. No. 1,407,603; Feb. 21.
 Electric switch. A. J. Tizley. No. 1,434,972; Nov. 7.
 Electric switch. M. Vogelsang. No. 1,417,957; May 30.
 Electric switch and actuating mechanism therefor. B. S. McClellan. No. 1,401,997; Jan. 3.
 Electric switch and electric fuse. Combined. F. W. Erickson. No. 1,414,011; Apr. 25.
 Electric switch and means for locking it. J. Kavana. No. 1,416,471; May 16.
 Electric-switch attachment. M. C. Frank. No. 1,420,829; June 27.
 Electric switch, Automatic. H. and O. Lucas and H. W. F. Ireland. No. 1,420,935; June 27.
 Electric switch, Automatic. W. G. Shelton. No. 1,425,610; Aug. 15.
 Electric-switch casing. P. S. Grierson. No. 1,420,133; Sept. 12.
 Electric switch, Combination. A. J. Gardenhour. No. 1,417,898; May 30.
 Electric switch for gasoline filling stations, Vacuum-controlled. C. O. McGraw and J. L. Martin. No. 1,439,114; Dec. 19.
 Electric switch mechanism. W. Richmond. No. 1,419,898; June 13.
 Electric switch, Multiple-contact. H. J. Norballe and J. L. Lawson. No. 1,404,884; Jan. 31.
 Electric switch, Safety. A. R. Gardner. No. 1,402,167; Jan. 3.
 Electric swivel-coupling lock. T. L. Dennis. No. 1,404,098; Jan. 17.
 Electric switching apparatus. L. C. Nicholson. No. 1,402,310; Jan. 3.
 Electric system. F. A. Byles. No. 1,415,309; May 9.
 Electric system. M. C. Cosgray. No. 1,404,932; Jan. 31.
 Electric systems, Dim-bright switch for. M. O. Devers. No. 1,438,522; Dec. 12.
 Electric terminal. C. C. Abbott. No. 1,432,435; Oct. 17.
 Electric time switch. N. Abramson. No. 1,420,902; June 27.
 Electric time-switch mechanism. A. R. Rosamond. No. 1,421,833; July 4.
 Electric toaster. E. C. Floriot. No. 1,416,272; May 16.
 Electric toaster. P. K. Stehman. No. 1,416,992; May 23.
 Electric tools, Portable. F. J. Backscheider. No. 1,407,622; Feb. 21.
 Electric traction in general, Trolley for aerial collection of current for. L. Vallino. No. 1,404,496; Jan. 24.
 Electric transmission arrangement. A. Montelhet. No. 1,411,366; Apr. 4.
 Electric vacuum apparatus. M. Schenkel and J. Jüst. No. 1,422,481; July 11.
 Electric water heater. A. M. Goldberg. No. 1,421,937; July 4.
 Electric water heater. A. C. Hulbert. No. 1,427,596; Aug. 29.
 Electric water heater. J. Ledwinka. No. 1,402,873; Jan. 10.
 Electric-wave-ranging system. J. B. Morrill. No. 1,406,996; Feb. 21.
 Electric-wave transmission. J. H. Hammond, Jr. No. 1,420,254; June 20.
 Electric wax sealer. R. Boyll. No. 1,406,526; Feb. 14.
 Electric-welding method and apparatus. A. Churchward. No. 1,416,450; May 16.
 Electric-wire swivel coupling. T. L. Dennis. No. 1,404,097; Jan. 17.
 Electrical apparatus. E. D. Eby. No. 1,415,321; May 9.
 Electrical apparatus. G. Faccioli. No. 1,426,971; Aug. 22.
 Electrical apparatus. J. J. Frank. No. 1,411,619; Apr. 4.
 Electrical apparatus. J. J. Frank. No. 1,437,232; Nov. 28.
 Electrical apparatus. L. A. Haworth. No. 1,424,016; July 25.
 Electrical apparatus. G. E. Hulse. No. 1,429,948; Sept. 26.
 Electrical apparatus. J. W. Patch. No. 1,436,901; Nov. 28.
 Electrical apparatus. A. R. Smith. No. 1,426,921; Aug. 22.
 Electrical apparatus. T. W. Varley. No. 1,429,381; Sept. 19.
 Electrical apparatus. F. W. Worley. No. 1,431,555; Oct. 10.
 Electrical apparatus. L. Wulff. No. 1,426,940; Aug. 22.
 Electrical apparatus, Casing for. W. O. Dwyer. No. 1,425,843; Aug. 15.
 Electrical apparatus, Connection for. C. D. Filkins. No. 1,422,420; July 11.
 Electrical apparatus having windings, Protective means for. J. Goodman. No. 1,406,602; Feb. 7.
 Electrical apparatus, Regulation of. B. W. St. Clair. No. 1,408,040; Feb. 28.
 Electrical appliances, Mounting for. B. S. Lee. No. 1,406,988; Feb. 21.
 Electrical attachment plug. J. G. Peterson. No. 1,425,049; Aug. 8.
 Electrical body heater and seamer. H. G. Brock. No. 1,415,784; May 9.
 Electrical ceiling-fitting connection. J. A. McKay. No. 1,412,748; Apr. 11.
 Electrical coil. S. E. Adair. No. 1,409,352; Mar. 14.
 Electrical coil. K. S. Johnson. No. 1,424,726; Aug. 1.
 Electrical collecting-brush structure. F. L. Sessions. No. 1,433,852; Oct. 31.
 Electrical collectors, commutators, controllers, or interrupters, or equivalent devices, Manufacturing. H. Herrmann. No. 1,426,293; Aug. 15.
 Electrical combination lock. L. Garrison. No. 1,433,543; Oct. 31.
 Electrical condenser. H. F. Causebrook. No. 1,415,220; May 9.
 Electrical condenser. G. Fuegel and H. Schmid. No. 1,440,142; Dec. 26.
 Electrical condenser. G. Hill. No. 1,408,738; Mar. 7.
 Electrical conductor terminal connector. H. B. Sherman. No. 1,437,687; Dec. 5.
 Electrical conductors, Insulated support for. L. Steinberger and G. Hill. No. 1,432,800; Oct. 24.
 Electrical conductors, Means for insulating. C. J. Wennerstrom. No. 1,432,933; Oct. 24.
 Electrical conductors or the like, Apparatus for drying the covering of. J. P. Devine. No. 1,420,367; June 20.
 Electrical conductors, Strain clamp for. B. A. Plimpton. No. 1,407,477; Feb. 21.
 Electrical conduit system. E. H. Curtis. No. 1,423,309; July 18.
 Electrical conduits, etc., Connector for. G. C. Thomas, Jr. No. 1,418,990; June 6.
 Electrical connecting device. G. C. Thomas, Jr. No. 1,418,989; June 6.
 Electrical connection. A. Churchward. No. 1,403,231; Jan. 10.
 Electrical connection. H. M. Smith. No. 1,428,863; Sept. 12.
 Electrical connection clamp. W. Wenderhold. No. 1,437,209; Nov. 28.
 Electrical connection, Multicontact. L. H. Des Isles. No. 1,435,819; Nov. 14.
 Electrical connector. F. Bellis. No. 1,411,263; Apr. 4.
 Electrical connector. E. B. Parsons and J. W. Bullington. No. 1,439,752; Dec. 26.
 Electrical connector. J. Raus. No. 1,418,468; June 6.
 Electrical connector. M. W. Robertson. No. 1,438,554; Dec. 12.
 Electrical connector. E. Strauszky. No. 1,423,045; July 18.
 Electrical connector device. R. B. Benjamin. No. 1,404,184; Jan. 24.
 Electrical connector device. R. B. Benjamin. No. 1,422,170; July 11.
 Electrical connector device. R. B. Benjamin. No. 1,431,622; Oct. 10.
 Electrical contact making and breaking device. A. P. Young. No. 1,434,761; Nov. 7.
 Electrical contactor. G. L. Smith. No. 1,431,912; Oct. 10.
 Electrical control apparatus. C. Schwartz. No. 1,422,625; July 11.
 Electrical control apparatus. M. Wissinger. No. 1,424,702; Aug. 1.
 Electrical control means, Distant. M. S. Dunkelberger. No. 1,437,637; Dec. 5.
 Electrical controller. R. B. Hunter. No. 1,420,842; June 27.
 Electrical controller. H. P. Reed. No. 1,435,979; Nov. 21.
 Electrical controlling device. D. J. Burns. No. 1,416,446; May 16.
 Electrical controlling device, Automatic. C. F. P. Carrier. No. 1,422,415; July 11.
 Electrical cut-out operated by fluid pressure. W. H. Welch. No. 1,428,463; Sept. 5.
 Electrical device. T. W. Case. No. 1,406,149; Feb. 7.
 Electrical devices, Tester for. W. Weinberg. No. 1,429,002; Sept. 12.
 Electrical distribution system. C. H. Giroux. No. 1,425,853; Aug. 15.
 Electrical distribution, System of. E. C. Ballman. No. 1,417,710; May 30.
 Electrical distribution, System of. W. L. Bliss. Nos. 1,434,362-3; Nov. 7.
 Electrical distribution, System of. G. E. Hulse. No. 1,437,247; Nov. 28.
 Electrical distribution, System of. C. W. Place. No. 1,420,385; June 20.
 Electrical distribution, System of. T. W. Varley. No. 1,436,123; Nov. 21.
 Electrical drink mixer. F. A. Stainbrook. Nos. 1,420,773-4; June 27.
 Electrical driving means. E. L. P. Colardeau. No. 1,416,611; May 16.
 Electrical-energy-translating apparatus. A. Churchward. No. 1,436,152; Nov. 21.
 Electrical engine. K. M. Geisler. No. 1,436,245; Nov. 21.

Alphabetical list of inventions—Continued.

- Electrical fixtures, Anchoring member for. C. E. Dengler. No. 1,440,137; Dec. 26.
- Electrical furnace. A. Elmer. No. 1,438,936; Dec. 12.
- Electrical furnace for treating ores. A. Counas. No. 1,430,948; Oct. 3.
- Electrical generating system. H. A. Harrington. No. 1,423,107; July 18.
- Electrical heater. F. Kuhn and J. A. Hand. No. 1,419,935; June 20.
- Electrical heater. H. H. Moreton. Nos. 1,416,963-5; May 23.
- Electrical heater and cooker, Combination. M. Butcher. No. 1,438,516; Dec. 12.
- Electrical heater resistance element. R. W. Reynolds. No. 1,422,130; July 11.
- Electrical heating appliance. R. Kemp. No. 1,411,663; Apr. 4.
- Electrical heating device. C. B. Ingersoll. No. 1,436,657; Nov. 28.
- Electrical heating device. M. S. Parnell-Smith. No. 1,409,019; Mar. 7.
- Electrical heating element. P. A. E. Armstrong. No. 1,416,436; May 16.
- Electrical heating unit. R. G. Kloeffer. No. 1,421,959; July 4.
- Electrical heating unit. J. S. Yoast. No. 1,440,202; Dec. 26.
- Electrical indicator. C. O. Lorenz. No. 1,432,346; Oct. 17.
- Electrical instrument board. B. D. Horton. No. 1,405,133; Jan. 31.
- Electrical instruments, Damping device for. H. B. Brown. No. 1,429,840; Sept. 19.
- Electrical instruments, Manufacture of contact fingers for. C. S. Snively. No. 1,404,488; Jan. 24.
- Electrical insulating and heating conducting material. R. W. Earle. No. 1,402,750; Jan. 10.
- Electrical machine, Influence. L. Vogel. No. 1,412,726; Apr. 11.
- Electrical machines and apparatus, Mercury step switch for. K. Kaisser. No. 1,426,875; Aug. 22.
- Electrical machines, Rotor for. B. Ames. No. 1,415,761; May 9.
- Electrical machines, Stator for. B. Ames. No. 1,415,762; May 9.
- Electrical means for detecting, observing, indicating, measuring, or utilizing minute movements. J. J. Dowling. No. 1,431,638; Oct. 10.
- Electrical measuring apparatus. H. W. Hitchcock. Nos. 1,419,673-4; June 13.
- Electrical measuring instrument. C. E. Vawter. No. 1,426,619; Aug. 22.
- Electrical motors, Mechanical construction of. J. J. Holahan. No. 1,415,564; May 9.
- Electrical oscillation generator. L. F. Fuller. No. 1,424,141; July 25.
- Electrical oscillations, Selectively opposing impedance to received. M. I. Pupin and E. H. Armstrong. No. 1,415,845; May 9.
- Electrical oscillatory energy, Method and apparatus for selectively transferring. H. W. Houck. No. 1,438,828; Dec. 12.
- Electrical outlet box. S. L. Sopenoff and M. Katcher. No. 1,429,172; Sept. 12.
- Electrical pad and the like. W. F. Craddick and C. M. Uhlig. No. 1,436,384; Nov. 21.
- Electrical plants, Device for automatically controlling the output of. M. Doloukhanoff. No. 1,423,839; July 25.
- Electrical precipitating system. L. W. Chubb. No. 1,433,699; Oct. 31.
- Electrical precipitation, Apparatus for. C. L. Fortescue. No. 1,427,370; Aug. 29.
- Electrical protective device. J. H. Procter. No. 1,437,074; Nov. 28.
- Electrical protective device. R. M. Spurck. No. 1,405,455; Feb. 7.
- Electrical protective device. O. Wortmann. No. 1,432,006; Oct. 17.
- Electrical protective device, Mounting plate for. F. R. Parker. No. 1,405,935; Feb. 7.
- Electrical receptacle. R. B. Benjamin. No. 1,404,731; Jan. 31.
- Electrical receptacle. W. M. Gilbert. No. 1,404,953; Jan. 31.
- Electrical receptacle, Hand portable. R. B. Benjamin. No. 1,402,735; Jan. 10.
- Electrical recorder. H. H. Welch. No. 1,404,332; Jan. 24.
- Electrical recording apparatus. R. W. Press and C. W. Schwenzfeier. No. 1,416,751; May 23.
- Electrical registering system. C. L. Goodrum. No. 1,436,165; Nov. 21.
- Electrical regulation, System of. W. A. Turbayne. No. 1,409,889; Mar. 14.
- Electrical resistance. W. W. Coblentz. No. 1,418,362; June 6.
- Electrical resistance material, Manufacturing. F. Eichenberger. No. 1,420,980; June 27.
- Electrical resistance units and the like, Making. L. T. Richardson. No. 1,439,123; Dec. 19.
- Electrical resistor. E. Weintraub. No. 1,415,748; May 9.
- Electrical riveting. A. B. Rypinski. (Reissue.) No. 15,364; May 23.
- Electrical signaling. L. Cohen. No. 1,439,947; Dec. 26.
- Electrical signaling, System for. D. C. Tanner. No. 1,416,077; May 16.
- Electrical starting and igniting apparatus. J. Bohli. No. 1,427,054; Aug. 22.
- Electrical switch. C. H. Hodgkins. No. 1,414,413; May 2.
- Electrical switch. B. D. Horton. No. 1,407,416; Feb. 21.
- Electrical switch. O. S. Swanson. No. 1,411,131; Mar. 28.
- Electrical switch and interlocking casing. H. S. Freeman. No. 1,412,466; Apr. 11.
- Electrical switch and interlocking casing. B. D. Horton. No. 1,412,467; Apr. 11.
- Electrical switch and interlocking casing. B. D. Horton. No. 1,436,622; Nov. 21.
- Electrical switch and interlocking casing. J. H. Pickareck. No. 1,412,488; Apr. 11.
- Electrical switch and interlocking device. B. D. Horton. No. 1,412,242; Apr. 11.
- Electrical switch device. R. Varley. No. 1,438,003; Dec. 5.
- Electrical switching device. R. M. Allen. No. 1,415,972; May 16.
- Electrical switching device. N. H. Lysons. No. 1,432,883; Oct. 24.
- Electrical switching device. W. H. Sharpe. No. 1,412,372; Apr. 11.
- Electrical system. S. R. Bergman. No. 1,426,947; Aug. 22.
- Electrical system. A. J. Hall. No. 1,433,717; Oct. 31.
- Electrical system. F. C. Hanker and C. M. Moss. No. 1,435,229; Nov. 14.
- Electrical system. E. S. Lammers, Jr. No. 1,406,565; Feb. 14.
- Electrical system. J. L. Milton. No. 1,405,536; Feb. 7.
- Electrical system. F. Punga. No. 1,416,236; May 16.
- Electrical system. R. Steck. Nos. 1,426,923-5; Aug. 22.
- Electrical systems, Protecting means for. M. Arendt, C. W. Burrows, and H. Rosenmeyer. No. 1,434,728; Nov. 7.
- Electrical testing system. F. H. Best. No. 1,432,829; Oct. 24.
- Electrical testing system. H. W. O'Neill. No. 1,404,311; Jan. 24.
- Electrical transformers for regulating or varying the voltage of the current supplied therefrom. F. E. Berry. No. 1,422,653; July 11.
- Electrical transmission system. P. A. Raibourn. No. 1,413,357; Apr. 18.
- Electrical units, Adjustable support for testing. G. A. Klemmer. No. 1,418,655; June 6.
- Electrical vacuum discharge device. E. W. Kelly. No. 1,414,741; May 2.
- Electrical water heater. H. Mehn. No. 1,418,011; May 30.
- Electrically-actuated permutation mechanism and circuits controlled thereby. J. B. Heller. No. 1,425,963; Aug. 15.
- Electrically-controlled heater. C. E. Patterson. No. 1,418,671; June 6.
- Electrically-heated apparatus. R. F. Wherland. No. 1,423,380; July 18.
- Electrically-heated boiler. E. L. Smalley. No. 1,430,927; Oct. 3.
- Electrically-heated device. J. F. Lamb. No. 1,431,468; Oct. 10.
- Electrically-heated device. E. H. Richardson. No. 1,439,979; Dec. 26.
- Electrically-heated devices, Automatic means for controlling. A. F. Brown. No. 1,422,735; July 11.
- Electrically-heated furnace. C. W. Speirs. No. 1,418,030; May 30.
- Electrically-heated furnace. C. W. Speirs. No. 1,430,858; Oct. 3.
- Electrically-heated intake manifold. M. A. Simon. No. 1,435,989; Nov. 21.
- Electrically-operated timing apparatus. C. D. Richard. No. 1,412,574; Apr. 11.
- Electrically welding galvanized metal sheets or parts. J. Ledwinka. No. 1,414,822; May 2.
- Electricity meters, Adjusting integrating. O. T. Blathy. No. 1,424,752; Aug. 8.
- Electrode. I. S. Crocker. No. 1,406,542; Feb. 14.
- Electrode. J. W. Fay. No. 1,416,183; May 16.
- Electrode. C. G. Fink. No. 1,437,507; Dec. 5.
- Electrode. R. A. Long. No. 1,440,091; Dec. 26.
- Electrode. R. H. McKee. No. 1,433,017; Oct. 24.
- Electrode. J. H. Payne, Jr. No. 1,432,411; Oct. 17.
- Electrode. A. O. Tate. No. 1,432,220; Oct. 17.
- Electrode and electrolytic battery. A. T. Stuart. No. 1,406,239; Feb. 14.
- Electrode and production of same, Storage-battery. T. A. Edison. No. 1,402,751; Jan. 10.
- Electrode, Coated dry-cell. A. A. MacKenzie and R. C. Benner. No. 1,437,603; Dec. 5.
- Electrode for electric-arc welding and metal-cutting purposes. W. H. Boorne. No. 1,415,774; May 9.
- Electrode for electric cells. R. Ameln and C. O. J. Montelius. No. 1,411,256; Apr. 4.
- Electrode for precipitating apparatus, Ionizing. C. L. Fortescue. No. 1,428,839; Sept. 12.
- Electrode for precipitating systems, Discharge. O. H. Eschholz. No. 1,425,637; Aug. 15.
- Electrode for use in depositing molten metal and making same. W. H. Boorne. No. 1,403,380; Jan. 10.
- Electrode furnace. J. H. Gray. No. 1,436,497; Nov. 21.

Alphabetical list of inventions—Continued.

- Electrode holder. W. C. Beiswinger and R. F. Morgan. No. 1,425,440; Aug. 8.
- Electrode holder. R. M. Keeney and P. J. Lonergan, Jr. No. 1,406,741; Feb. 14.
- Electrode projector. W. R. Mott. No. 1,439,016; Dec. 19.
- Electrode with cooled metallic head. M. Sperling. No. 1,408,418; Feb. 28.
- Electrodeposit systems, Circulation for. C. Duncan. No. 1,411,657; Apr. 4.
- Electrodeposit winding. A. Kimble. No. 1,433,827; Oct. 31.
- Electrodeposition of metals upon iron and alloys of iron. R. J. Fletcher. No. 1,417,896; May 30.
- Electrodes, Clamp mounting for. R. H. Wappler. No. 1,422,396; July 11.
- Electrodes, Magnetic steadying device for. H. A. Wintermute. No. 1,409,508; Mar. 14.
- Electrodes, Manufacturing. H. Bardt. No. 1,423,071; July 18.
- Electrodes, Stabilizing storage-battery. R. C. Benner. No. 1,439,994; Dec. 26.
- Electrodes, Temperature-regulating means for filamentary. A. L. Atherton. No. 1,406,328; Feb. 14.
- Electrodes to conducting heads, Securing spark-plug. W. S. Thomas. No. 1,416,243; May 16.
- Electrodes with cooled metallic head, Mounting for. C. Schraepfer. No. 1,408,406; Feb. 28.
- Electro-gas-light signal. A. G. Shaver. No. 1,410,961; Mar. 28.
- Electrolites and for like electrical purposes, Suspension chain for. E. J. Perry. No. 1,430,402; Sept. 26.
- Electrolysis. W. E. Bailey. No. 1,416,929; May 23.
- Electrolysis. C. G. Spencer. No. 1,431,602; Oct. 10.
- Electrolysis, Apparatus for. E. A. Allen. No. 1,407,313; Feb. 21.
- Electrolysis, Means for suspending plates during treatment by. R. M. Weeks. No. 1,427,875; Sept. 5.
- Electrolysis suspension hook. E. Voigt. No. 1,412,909; Apr. 18.
- Electrolyte. J. Coulson. Nos. 1,412,513-4; Apr. 11.
- Electrolytes, Treating nonaqueous. P. H. Brace. No. 1,415,983; May 16.
- Electrolytic anode. R. A. Price. No. 1,438,722; Dec. 12.
- Electrolytic apparatus. H. Y. Eagle. No. 1,431,574; Oct. 10.
- Electrolytic apparatus. R. D. Mershon. No. 1,433,736; Oct. 31.
- Electrolytic apparatus. G. O. Seward. Nos. 1,408,141-2; Feb. 28.
- Electrolytic apparatus. A. W. Smith. No. 1,427,171; Aug. 29.
- Electrolytic apparatus. H. Tobler. (Reissue.) No. 1,5297; Feb. 28.
- Electrolytic apparatus and method. C. Dantsizen. No. 1,416,692; May 23.
- Electrolytic apparatus and method of depolarizing the same. W. D. Nickum. Nos. 1,428,049-50; Sept. 5.
- Electrolytic caustic-soda cell. N. Statham. No. 1,411,530; Apr. 4.
- Electrolytic cell. A. V. Davis. No. 1,425,752; Aug. 15.
- Electrolytic cell. S. M. Green. No. 1,404,387; Jan. 24.
- Electrolytic cell. J. Harris. No. 1,420,037; June 20.
- Electrolytic cell. H. C. Jenkins. No. 1,410,681; Mar. 28.
- Electrolytic cell. E. A. Le Sueur. No. 1,431,014; Oct. 3.
- Electrolytic cell and operating same. H. H. Wikle. No. 1,402,986; Jan. 10.
- Electrolytic iron making. F. A. Eustis, C. R. Hayward, H. M. Schleicher, and D. Belcher. No. 1,412,174; Apr. 11.
- Electrolytic iron making. F. A. Eustis, C. R. Hayward, H. M. Schleicher, and D. Belcher. Nos. 1,432,543-4; Oct. 17.
- Electrolytic light source. J. Coulson. No. 1,419,360; June 13.
- Electrolytic method and apparatus. J. J. Sherwood. No. 1,427,236; Aug. 29.
- Electrolytic rectifiers, Anode for. G. H. Groce and G. M. Howard. No. 1,436,709; Nov. 28.
- Electrolytic reduction and oxidation, Method of and apparatus for. H. W. Paulus. No. 1,420,212; June 20.
- Electrolytic tanks with diaphragm cells, Arrangement in. G. Haglund. No. 1,426,071; Aug. 15.
- Electrolyzer. R. Pechkranz. No. 1,415,466; May 9.
- Electrolyzing solutions, Apparatus for. K. E. Stuart. No. 1,423,584; July 25.
- Electromagnet. C. E. Avery. No. 1,413,374; Apr. 18.
- Electromagnet. S. M. Lucas. No. 1,421,269; June 27.
- Electromagnet. F. E. Ward. No. 1,436,327; Nov. 21.
- Electromagnetic brake. B. E. Fernow, Jr. No. 1,410,395; Mar. 21.
- Electromagnetic contact device. V. C. Wynne. No. 1,429,009; Sept. 12.
- Electromagnetic coupling. K. Meller. No. 1,434,136; Oct. 31.
- Electromagnetic device. H. E. Frost. No. 1,439,543; Dec. 19.
- Electromagnetic device. H. W. Goff. No. 1,419,559; June 13.
- Electromagnetic device. C. R. Herman. No. 1,438,240; Dec. 12.
- Electromagnetic hammers and the like, Control means for. F. W. Meyer. No. 1,433,962; Oct. 31.
- Electromagnetic lock-out switch. R. P. Bossom. No. 1,414,453; May 2.
- Electromagnetic measuring apparatus. J. C. Stangier. No. 1,422,317; July 11.
- Electromagnetic motor. W. W. Billings. No. 1,436,335; Nov. 21.
- Electromagnetic relay device. A. M. Haubrich. No. 1,432,691; Oct. 17.
- Electromagnetic step-by-step mechanism. H. W. Goff. No. 1,403,767; Jan. 17.
- Electromagnetic switch, Retarded. A. M. Haslev. No. 1,422,702; July 11.
- Electromagnetic switches, Control of. R. H. McLain. No. 1,419,872; June 13.
- Electromagnetic transmission. A. H. Neuland. No. 1,410,215; Mar. 21.
- Electromagnetic-wave bath. W. S. Benson. No. 1,418,903; June 6.
- Electromagnetic waves, Apparatus for directive transmission of. F. S. McCullough. No. 1,403,700; Jan. 17.
- Electromagneto machine. H. A. Andresen. No. 1,406,806; Feb. 14.
- Electromechanical power transforming, converting, and regenerative device. H. J. Murray. No. 1,409,061; Mar. 7.
- Electromechanical switching system. J. D. Budd, C. I. Cronburg, and F. S. Hurd. No. 1,411,478; Apr. 4.
- Electromedical apparatus. W. H. Meyenberg. No. 1,431,675; Oct. 10.
- Electromedical apparatus, Vibrator for high-frequency. W. H. Bailey. No. 1,431,867; Oct. 10.
- Electrometer. F. R. Sommer. No. 1,417,114; May 23.
- Electromotor with connecting gear. H. Schröder. No. 1,428,302; Sept. 5.
- Electron-discharge apparatus. I. Langmuir. (Reissue.) No. 15,278; Jan. 31.
- Electron-discharge device. H. W. Weinhart. No. 1,419,528; June 13.
- Electron-discharge device. R. H. Wilson. No. 1,403,932; Jan. 17.
- Electron-discharge device and making same. M. J. Kelly. No. 1,432,867; Oct. 24.
- Electron-discharge-device circuits. H. C. Egerton. No. 1,426,826; Aug. 22.
- Electron-discharge device, Constant-resistance. W. C. White. No. 1,430,607; Oct. 3.
- Electron-discharge devices, Circuits for. R. C. Mathes. No. 1,426,754; Aug. 22.
- Electron tube. E. L. Mueller. No. 1,437,607; Dec. 5.
- Electron-tube repeater. G. Crisson. No. 1,431,219; Oct. 10.
- Electronic apparatus. C. D. Ehret. No. 1,419,547; June 13.
- Electroplating apparatus. F. R. Klaus and H. W. Kranz. No. 1,429,438; Sept. 19.
- Electroplating apparatus and process. J. J. Mueller. No. 1,437,003; Nov. 28.
- Electroplating barrel and catcher. E. A. Severance. No. 1,429,170; Sept. 12.
- Electroplating metallic sheets by means of a revolving cylinder, Apparatus for automatically. M. Schlötter. No. 1,430,855; Oct. 3.
- Electroplating process. N. V. Park. No. 1,423,815; July 25.
- Electroplating, Process and apparatus for. W. E. Belke. No. 1,426,141; Aug. 15.
- Electroplating with alkaline bath. C. H. Proctor and C. J. Wernlund. No. 1,435,875; Nov. 14.
- Electropneumatic brake. W. H. Stevens. No. 1,402,267; Jan. 3.
- Electropneumatic brake and signal system. J. B. Grosswege. No. 1,414,736; May 2.
- Electroresponsive device. W. W. McFarlane. No. 1,402,305; Jan. 3.
- Electrostatic generator. W. S. Bowen. No. 1,415,779; May 9.
- Electrostatic separation of finely-divided discrete material, Process and apparatus for. G. R. Brown. No. 1,422,026; July 4.
- Electrotherapeutic apparatus. J. H. Eastman. No. 1,435,055; Nov. 7.
- Electrotinning. L. Schulte. No. 1,423,686; July 25.
- Electrotyping-case polisher. O. D. Harden. No. 1,418,074; May 30.
- Elevating apparatus. B. C. Skinner. No. 1,413,138; Apr. 18.
- Elevating apparatus. L. G. Zesbaugh and H. Anderson. No. 1,432,513; Oct. 17.
- Elevating cables to load carriers, Device for connecting. A. R. Goldrick. No. 1,431,945; Oct. 17.
- Elevating device. F. Beers and H. L. Powell. No. 1,422,816; July 18.
- Elevating loader. H. D. Schneider. No. 1,429,780; Sept. 19.
- Elevator: See—
- | | |
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| Automobile elevator. | Hydraulic elevator. |
| Beet elevator. | Pipe elevator. |
| Bucket elevator. | Pneumatic water elevator. |
| Casing elevator. | Portable elevator. |
| Chain coupling. | Rod or well-casing elevator. |
| Conveying elevator. | Sheaf elevator. |
| Electric elevator. | Smooth-belt elevator. |
| Freight or passenger elevator. | Sucker-rod elevator. |
| Grain elevator. | Tray elevator. |
| Hod elevator. | Water elevator. |

- Elevator. H. C. Anderson. No. 1,413,886; Apr. 25.
 Elevator. J. Bergsten. No. 1,434,673; Nov. 7.
 Elevator. H. L. Campbell. No. 1,431,930; Oct. 17.
 Elevator. T. E. De Vol. No. 1,405,301; Jan. 31.
 Elevator. C. P. Kininmonth. No. 1,421,787; July 4.
 Elevator. S. Lankheet. No. 1,428,485; Sept. 5.
 Elevator. C. Leffer. No. 1,411,736; Apr. 4.
 Elevator. A. H. Thomas. No. 1,419,115; June 6.
 Elevator. S. J. Tritt. No. 1,426,524; Aug. 22.
 Elevator. J. M. Whalbe. No. 1,417,873; May 30.
 Elevator. C. S. Wright. No. 1,420,010; June 20.
 Elevator and mine shafts, Automatic gate mechanism for. C. Drum. No. 1,423,919; July 25.
 Elevator cables, Suspension device for equalizing the strain on. J. E. Evans. No. 1,429,070; Sept. 12.
 Elevator-car construction. R. W. Disbro. No. 1,429,194; Sept. 12.
 Elevator control system. G. Botscheider. No. 1,409,132; Mar. 7.
 Elevator control system, Electric. S. W. Rushmore. No. 1,427,644; Aug. 29.
 Elevator controller. R. A. Isenberg. No. 1,410,474; Mar. 21.
 Elevator controller. E. A. Isenberg. No. 1,421,945; July 4.
 Elevator controlling device. C. F. Quick. No. 1,406,489; Feb. 14.
 Elevator device. M. Mickelson. No. 1,415,603; May 9.
 Elevator door. E. W. Fenn. No. 1,424,287; Aug. 1.
 Elevator door. B. Wexler. No. 1,403,995; Jan. 17.
 Elevator-door construction. J. C. Heinzelman. No. 1,415,639; May 9.
 Elevator-door expansion shoe. B. Wexler. No. 1,416,247; May 16.
 Elevator-door lock. J. F. Girten. No. 1,425,762; Aug. 15.
 Elevator door, Pass-type. E. W. Fenn. No. 1,424,288; Aug. 1.
 Elevator doors, Controlling mechanism for. R. S. Peelle. Nos. 1,410,271-2; Mar. 21.
 Elevator doors, Safety lock for. B. C. Van Emon and W. A. Wolf. No. 1,421,043; June 27.
 Elevator feeding device. J. C. French. No. 1,436,029; Nov. 21.
 Elevator floor safety switch. C. M. Aldred. No. 1,436,137; Nov. 21.
 Elevator gate, Automatic. L. E. Martin. No. 1,426,663; Aug. 22.
 Elevator-gate control device. F. L. Ohler. No. 1,412,868; Apr. 11.
 Elevator-gate-operating device. J. E. W. Fogal. No. 1,411,996; Apr. 4.
 Elevator-hatchway seal. F. Febr. No. 1,406,951; Feb. 14.
 Elevator lock. W. S. Campbell. Nos. 1,417,449-51; May 23.
 Elevator lock, Selective. B. H. Macy. No. 1,413,752; Apr. 25.
 Elevator machines, Adjustable bearing for. J. D. Schakel. No. 1,402,895; Jan. 10.
 Embossing machines, Feeding gauge for. H. Gould. No. 1,437,754; Dec. 5.
 Elevator or carrier, Parcel and package. J. Collins. No. 1,422,673; July 11.
 Elevator, Portable. H. S. Germond, Jr. No. 1,406,638; Feb. 14.
 Elevator, Portable. E. N. Hescok and E. F. Smith. Nos. 1,406,860-1; Feb. 14.
 Elevator safety device. A. W. Bleyle and J. J. Davis. No. 1,411,770; Apr. 4.
 Elevator stop and lock. W. R. Niven. No. 1,409,016; Mar. 7.
 Elevators and cages, Life-saving apparatus for. S. Anduaga, Jr., and J. Luevano. No. 1,440,049; Dec. 26.
 Elevators and conveyers, Detector for. W. T. Donaldson. No. 1,422,091; July 11.
 Elevators, Door-opening mechanism for. H. L. Brayton. No. 1,405,265; Jan. 31.
 Elevators, Electric signal apparatus for. R. A. Newe. No. 1,418,322; June 6.
 Elevators, Floor-indicating mechanism for. F. F. Clouser. No. 1,409,831; Mar. 14.
 Elevators, Flow-line switch for. O. J. Lehrack. No. 1,434,660; Nov. 7.
 Elevators, Gate lifting and releasing mechanism for. A. H. Packard. No. 1,425,332; Aug. 8.
 Elevators, Grain-distributing device for. S. P. Stump. No. 1,413,505; Apr. 18.
 Elevators, Hoisting mechanism for. N. P. Julien. No. 1,419,783; June 13.
 Elevators, Safety device for. G. P. McDonnell. No. 1,408,459; Mar. 7.
 Elevators, Safety device for. H. McGillivray. No. 1,422,774; July 11.
 Elevators, Safety device for. J. Moschos. No. 1,424,665; Aug. 1.
 Elevators, Self closing and opening gate for. A. R. Filgor. No. 1,407,133; Feb. 21.
 Elevators, Starting device for. L. H. Palmer. No. 1,414,040; Apr. 25.
 Ellipsograph. J. Hardt. No. 1,411,493; Apr. 4.
 Elongated articles, Mechanism for feeding. C. A. Hoy. No. 1,415,932; May 16.
 Embalmer's operating stand. W. L. Pritchett and W. H. Walker. No. 1,403,865; Jan. 17.
 Embalming instrument. P. Thorhaug. No. 1,410,143; Mar. 21.
 Embellishing surfaces, Agency for and method of. W. E. Choate. No. 1,406,538; Feb. 14.
 Emblem. E. L. Weed. No. 1,412,433; Apr. 11.
 Embossing and printing apparatus. G. F. Seitz. No. 1,420,765; June 27.
 Embossing device. V. E. Baker. No. 1,402,708; Jan. 3.
 Embossing machine. G. W. Mix. No. 1,410,212; Mar. 21.
 Embossing machine. C. E. Steere. No. 1,407,492; Feb. 21.
 Embossing, Means for. J. H. Matthews. (Reissue.) No. 15,279; Jan. 31.
 Embossing press, Automatically-fed. E. Weinheim. No. 1,432,001; Oct. 17.
 Embossing presses, Counter block for. G. Gebhardt, Jr. No. 1,411,011; Mar. 28.
 Embroidered ornamental dot. M. I. D. Einstein. No. 1,409,214; Mar. 14.
 Embroiderer, Hand. W. R. Comings. No. 1,410,891; Mar. 28.
 Embroidering machines, Device for driving the scallop mechanism in. G. Sieber. No. 1,416,894; May 23.
 Embroidering machines, Fabric frame for several-needle. M. R. Bretschneider. No. 1,430,152; Sept. 26.
 Embroidery frame. T. Cacieli. No. 1,411,908; Apr. 4.
 Embroidery frame. W. Koller. No. 1,434,898; Nov. 7.
 Embroidery frame. A. A. Spero. No. 1,410,964; Mar. 28.
 Embroidery machine. F. B. Baker. No. 1,409,903; Mar. 21.
 Embroidery machine. J. Neff, sr. No. 1,432,608; Oct. 17.
 Embroidery machine, Shuttle. E. Verse. No. 1,427,564; Aug. 29.
 Embroidery machines, Thread-changing device in. G. Sieber. No. 1,423,160; July 18.
 Emergency brake, antiskidding, and antitheft device. M. Cichon. No. 1,421,910; July 4.
 Emergency mechanism. E. D. Dickinson. No. 1,409,529; Mar. 14.
 Emery ring. D. F. McGovern. No. 1,416,728; May 23.
 Emery-wheel dresser. G. W. Osborn. No. 1,435,022; Nov. 7.
 Emery-wheel-dressing tool. G. R. Brisben. No. 1,425,941; Aug. 15.
 Emery-wheel stand. J. J. Koukol. No. 1,440,225; Dec. 26.
 Emery wheels, Adjustable safety guard for. V. A. Virgilio. No. 1,406,914; Feb. 14.
 Emery wheels, Means for testing. H. H. La Vercombe. No. 1,435,314; Nov. 14.
 Emplacing apparatus. E. L. Wiegand. (Reissue.) No. 15,479; Oct. 24.
 Emulsifier. J. M. Colony. No. 1,434,095; Oct. 31.
 Emulsifier. W. J. Drucker. No. 1,436,307; Nov. 21.
 Emulsion. H. N. Holmes and D. H. Cameron. No. 1,429,430; Sept. 19.
 Emulsion and making same. C. S. Reeve. No. 1,408,224; Feb. 28.
 Emulsion, Making. L. Kirschbraun. No. 1,417,835; May 30.
 Emulsions and water-controlled system for same, Dehydrator for petroleum. F. W. Harris. No. 1,405,124; Jan. 31.
 Emulsions, Apparatus for dehydrating petroleum. F. W. Harris. No. 1,405,119; Jan. 31.
 Emulsions, Apparatus for dehydrating petroleum. F. W. Harris. No. 1,405,123; Jan. 31.
 Emulsions, Apparatus for producing. E. E. Werner. No. 1,438,733; Dec. 12.
 Emulsions, Apparatus for removing water from petroleum. F. W. Harris. No. 1,405,118; Jan. 31.
 Emulsions, Dehydrating. F. W. Harris. No. 1,405,125; Jan. 31.
 Emulsions, Dehydrating. F. W. Harris. No. 1,405,127; Jan. 31.
 Emulsions, Dehydrating petroleum. F. W. Harris. No. 1,405,126; Jan. 31.
 Emulsions, Dehydrator for petroleum. F. W. Harris. No. 1,405,117; Jan. 31.
 Emulsions, Method and apparatus for dehydrating. F. W. Harris. No. 1,405,130; Jan. 31.
 Emulsions, Method and apparatus for dehydrating petroleum. F. W. Harris. No. 1,405,122; Jan. 31.
 Emulsions, Process and apparatus for dehydrating petroleum. F. W. Harris. No. 1,405,129; Jan. 31.
 Emulsions, Resolving. J. B. Heller. No. 1,412,738; Apr. 11.
 Emulsoids, Producing. E. E. Werner. No. 1,406,791; Feb. 14.
 Enamel. W. A. Briggs. No. 1,409,919; Mar. 21.
 Enamel from enameled metal articles, Removing. W. E. Patch. No. 1,416,865; May 23.
 Enameling wood or metal surfaces. J. A. Rymer. No. 1,406,498; Feb. 14.
 End-thrust device. J. B. Remmen and H. J. Nicolai. No. 1,402,180; Jan. 3.
 Endless carrier. H. M. Johnston. No. 1,418,577; June 6.
 Energy, Apparatus for detecting minute values of. E. C. Hanson and W. L. Carlson. No. 1,437,240; Nov. 28.
 Energy, System of transforming. P. C. Hewitt. No. 1,409,717; Mar. 14.

Alphabetical list of inventions—Continued.

- Engine: See—
 Aircraft engine.
 Beater engine.
 Combustion engine.
 Cycle engine.
 Donkey engine.
 Double-acting, two-cycle engine.
 Electric engine.
 Electrical engine.
 Explosion engine.
 Explosive engine.
 Fluid engine.
 Four-cycle internal-combustion engine.
 Gas engine.
 Hydrocarbon engine.
 Internal-combustion engine.
 Internal-combustion and hot-air engine.
 Internal-combustion rotary engine.
 Liquid-fuel internal-combustion engine.
 Logging engine.
 Oil engine.
 Piston engine.
 Pumping engine.
 Reciprocating engine.
 Rotary engine.
 Rotary gas engine.
 Rotary internal-combustion engine.
 Rotary pump and engine.
 Rotary steam engine.
 Steam engine.
 Steam and internal-combustion engine.
 Towing engine.
 Toy steam engine.
 Traction engine.
 Turbine engine.
 Two-cycle engine.
 Two-cycle internal-combustion engine.
 Two-cycle quick-combustion engine.
 Two or multi cylinder internal-combustion engine.
 Two-stroke explosion engine.
 Underground automotive engine.
 Uniflow steam engine.
 V-type internal-combustion engine.
- Engine. J. S. Barner. No. 1,406,330; Feb. 14.
 Engine. J. Haltenberger. No. 1,409,710; Mar. 14.
 Engine. L. S. Keilholtz. No. 1,435,528; Nov. 14.
 Engine. A. S. Kenmonth. No. 1,405,224; Jan. 31.
 Engine. C. F. Kettering. No. 1,430,524; Sept. 26.
 Engine. H. B. King. No. 1,421,254; June 27.
 Engine. R. F. Metcalfe. No. 1,406,205; Feb. 14.
 Engine. L. T. Penny. No. 1,440,172; Dec. 26.
 Engine. A. Reppe. No. 1,406,896; Feb. 14.
 Engine. M. L. Rhine. No. 1,432,788; Oct. 24.
 Engine. C. E. Sargent. No. 1,437,738; Oct. 5.
 Engine. C. N. Teetor. No. 1,414,796; May 2.
 Engine. J. B. Warren. No. 1,439,932; Dec. 26.
 Engine. Air-cooled internal-combustion. R. Kronenberg. No. 1,422,719; July 11.
 Engine. Air-cooled internal-combustion. J. M. Williams, Jr. No. 1,405,883; Feb. 7.
 Engine and attachment therefor, Internal-combustion. B. M. Fine. No. 1,405,772; Feb. 7.
 Engine and operating the same, Internal-combustion. A. P. Brush. No. 1,437,396; Dec. 5.
 Engine bed. A. W. Caps. No. 1,410,650; Mar. 28.
 Engine bed, Horizontal. W. T. Price. No. 1,433,476; Oct. 24.
 Engine compression regulator. P. M. Freer. No. 1,428,772; Sept. 12.
 Engine connecting-rod pin, Automatic expandible. J. J. Meuvly. No. 1,410,493; Mar. 21.
 Engine connecting-rod test gauge. M. J. Husak. No. 1,436,104; Nov. 21.
 Engine construction. N. P. Levin. No. 1,405,235; Jan. 31.
 Engine control circuits, Door-. G. Oakley. No. 1,424,257; Aug. 1.
 Engine-control system. C. F. Kettering. No. 1,434,013; Oct. 31.
 Engine-cooling system. H. C. Verhey. No. 1,425,151; Aug. 8.
 Engine-cooling systems, Means for introducing temperature-responsive elements into. H. H. Boyce. No. 1,431,212; Oct. 10.
 Engine crank cases, Lubricating system for. E. N. Mimms and C. Mimms, Jr. No. 1,430,919; Oct. 3.
 Engine crosshead. D. R. Hutchison. No. 1,403,165; Jan. 10.
 Engine-cylinder-cooling means. A. W. Caps. No. 1,417,028; May 23.
 Engine-cylinder dresser. R. G. Mauck. No. 1,434,622; Nov. 7.
 Engine-cylinder head. T. H. Leifheit. No. 1,438,927; Dec. 12.
 Engine, Double-acting, two-cycle, internal-combustion. H. R. Setz. No. 1,418,838; June 6.
 Engine, Explosive. B. F. Pearsall, Jr. No. 1,406,072; Feb. 7.
 Engine, Fuel-supply device for internal-combustion. L. H. Wheeler. No. 1,432,935; Oct. 24.
 Engine governor. J. B. Replogle. No. 1,424,140; July 25.
 Engine lubricator. G. H. Gilman. No. 1,434,694; Nov. 7.
 Engine lubricator. S. J. Matthews. No. 1,420,125; June 20.
 Engine manifold, Internal-combustion-. B. D. Foster. No. 1,436,704; Nov. 28.
 Engine mounting. H. E. Schank. No. 1,410,725; Mar. 28.
 Engine of the internal-combustion type, Explosive. A. K. Schaap. No. 1,408,475; Mar. 7.
 Engine-overhauling installation. J. J. Schwarz. No. 1,439,334; Dec. 19.
 Engine piston. E. Mullern. No. 1,428,552; Sept. 12.
 Engine piston. L. R. Spencer. No. 1,430,928; Oct. 3.
 Engine piston. J. Thomson. No. 1,426,022; Aug. 15.
 Engine primer, Gasoline-. E. D. Barrett. No. 1,410,641; Mar. 28.
 Engine-regulating device. O. E. Jørgensen. No. 1,411,631; Apr. 4.
 Engine-repair stand. G. C. Lucas and M. M. Pratt. No. 1,431,532; Oct. 10.
 Engine, Rotary. A. J. Anderson. No. 1,406,140; Feb. 7.
 Engine, Rotary. G. F. Coffelt. No. 1,404,583; Jan. 24.
 Engine, Rotary. J. E. Powell. No. 1,405,326; Jan. 31.
 Engine stand. E. J. Van Harn. No. 1,404,075; Jan. 17.
 Engine stand and burning-in machine. H. Behrens. No. 1,420,074; June 20.
 Engine starter. V. Bendix. No. 1,404,711; Jan. 24.
 Engine starter. A. E. Buchenberg. No. 1,413,318; Apr. 18.
 Engine starter. F. E. Fisher. (Reissue.) No. 15,444; Sept. 5.
 Engine starter. W. L. McGrath. No. 1,424,766; Aug. 8.
 Engine starter. W. L. McGrath. Nos. 1,433,833-4; Oct. 31.
 Engine starter. S. W. Rushmore. No. 1,405,742; Feb. 7.
 Engine starter. J. Schaefer. No. 1,428,912; Sept. 12.
 Engine starter. G. B. Smith. No. 1,410,613; Mar. 28.
 Engine starter. B. U. Taylor. No. 1,415,962; May 16.
 Engine starter, Internal-combustion-. E. L. Klise. No. 1,416,720; May 23.
 Engine starting and lighting generators, Gearing for. A. J. Kloneck. No. 1,427,301; Aug. 29.
 Engine-starting apparatus. J. K. Delano. No. 1,415,531; May 9.
 Engine-starting device. J. Bijur. (Reissue.) No. 15,403; July 11.
 Engine-starting device. R. E. Lee. No. 1,412,946; Apr. 18.
 Engine-starting means, Automobile. S. B. McHenry. No. 1,407,556; Feb. 21.
 Engine-starting mechanism. E. A. Dickey; No. 1,409,681; Mar. 14.
 Engine-starting system. W. A. Chryst. No. 1,406,172; Feb. 14.
 Engine-starting system. W. A. Chryst. No. 1,427,067; Aug. 22.
 Engine stop gear. D. Cockburn and D. MacNicol. No. 1,416,791; May 23.
 Engine support and crank case. P. B. Woodruff. No. 1,432,820; Oct. 24.
 Engine-testing apparatus. W. R. McCulla. No. 1,427,218; Aug. 29.
 Engine, Two-stroke-cycle internal-combustion. L. V. Thomas. No. 1,402,683; Jan. 3.
 Engine ventilator. E. Currie. No. 1,420,411; June 20.
 Engines, Additional air device for internal-combustion. F. H. P. Beaton. No. 1,403,003; Jan. 10.
 Engines, Adjustable firing chamber for solid-injection. R. A. Gaertner. No. 1,413,466; Apr. 18.
 Engines, Air-cleaning device for internal-combustion. A. W. L. Rice. No. 1,406,416; Feb. 14.
 Engines, Air-cleaning device for internal-combustion. A. T. Sturt and C. J. Whitacre. No. 1,406,299; Feb. 14.
 Engines, Air-cooling device for internal-combustion. L. E. Clawson. No. 1,411,410; Apr. 4.
 Engines, Air filter for internal-combustion. A. Milburn. No. 1,414,993; May 2.
 Engines, Air-inlet device for internal-combustion. F. C. Tabler. No. 1,402,110; Jan. 3.
 Engines, Air intake for combustion. N. R. Stewart. No. 1,410,846; Mar. 28.
 Engines, Air strainer for internal-combustion. J. P. Quam. No. 1,405,437; Feb. 7.
 Engines and compressors, Packing for rotary. H. S. White. No. 1,409,986; Mar. 21.
 Engines and compressors, Packing for rotary. H. S. White and A. B. Boyer. No. 1,409,985; Mar. 21.
 Engines and the like, Starting apparatus for airplane. J. Bijur. Nos. 1,429,670-1; Sept. 19.
 Engines and the like, Vacuum fuel-feeding device for internal-combustion. C. S. Burton. No. 1,432,381; Oct. 17.
 Engines and vaporizing the motive fluid for such engines, Vaporizer or carburetor for internal-combustion. J. Wilkinson. No. 1,424,541; Aug. 1.
 Engines, Antiknocking device for pistons of internal-combustion. C. H. Brown. No. 1,425,630; Aug. 15.
 Engines, Apparatus for admitting additional heated air into internal-combustion. V. Yrureta. No. 1,417,127; May 23.
 Engines, Apparatus for cooling internal-combustion. J. M. Schoonmaker, Jr. No. 1,410,726; Mar. 28.
 Engines, Apparatus for feeding liquid fuel to internal-combustion. S. L. J. Vindrier. No. 1,416,915; May 23.
 Engines, Apparatus for indicating ignition failures in internal-combustion. S. Fisher. No. 1,416,457; May 16.
 Engines, Apparatus for regulating the supply of explosive mixture to gas. T. Gendarme. No. 1,426,854; Aug. 22.
 Engines, Arrangement for purifying and rendering odorless the exhaust gases of internal-combustion. P. Wachtel. No. 1,402,814; Jan. 10.
 Engines, Attachment plug for oiling systems for internal-combustion. R. W. Saunders. No. 1,421,725; July 4.
 Engines, Automatic air-brake valve for automobile. L. J. Babcock. No. 1,420,073; June 20.
 Engines, Automatic air-regulating device for gasoline. E. F. Ingles. No. 1,408,353; Feb. 28.
 Engines, Automatic air-supply control for internal-combustion. J. B. Adler and T. F. Gehle. No. 1,413,371; Apr. 18.

Alphabetical list of inventions—Continued.

- Engines, Automatic carbon remover for internal-combustion. R. T. Arnold. No. 1,432,944; Oct. 24.
- Engines, Automatic means for draining steam. L. N. Vincent. No. 1,439,854; Dec. 26.
- Engines, Automatic oiling device for internal-combustion. F. J. C. Nicholson. No. 1,415,464; May 9.
- Engines, Automatic switch for circuits of internal-combustion. S. Stevens. No. 1,422,318; July 11.
- Engines, Auxiliary air and air-moistening device for internal-combustion. T. N. Coffelder. No. 1,411,841; Apr. 4.
- Engines, Auxiliary air feed for explosive. J. Scalco. No. 1,420,288; June 20.
- Engines, Auxiliary air-inlet device for explosion. W. E. Stephens and J. Hoelzel. No. 1,407,494; Feb. 21.
- Engines, Auxiliary air-inlet device for internal-combustion. P. J. Weber. No. 1,420,615; June 20.
- Engines, Auxiliary air inlet for internal-combustion. F. O. Alton. No. 1,421,136; June 27.
- Engines, Auxiliary air intake for internal-combustion. J. H. Proffitt. No. 1,429,770; Sept. 19.
- Engines, Auxiliary air supply for explosion. G. S. King. No. 1,413,124; Apr. 18.
- Engines, Auxiliary fuel tank for internal-combustion. L. J. Latshaw. No. 1,413,037; Apr. 18.
- Engines, Auxiliary inlet device for internal-combustion. C. Pohl. No. 1,421,554; July 4.
- Engines, Bearing end plate for the ignition apparatus of internal-combustion. J. Schneider, E. Hurlmann, and F. Billon. No. 1,434,316; Oct. 31.
- Engines by hydrogen gas, Means for operating explosive. J. P. Corrigan. No. 1,438,984; Dec. 19.
- Engines, Cam-shaft mounting for internal-combustion. J. F. Buckingham. No. 1,418,282; June 6.
- Engines, Carbon-preventing means for internal-combustion. T. B. Sansbury. No. 1,409,786; Mar. 14.
- Engines, Carburetor attachment for explosive. W. A. Smith. No. 1,432,630; Oct. 17.
- Engines, Carburetor for internal-combustion. N. Garoff. No. 1,420,090; June 20.
- Engines, Carburetor for internal-combustion. L. F. and F. G. King. No. 1,426,570; Aug. 22.
- Engines, Carburetor for internal-combustion. F. S. Orem. No. 1,439,573; Dec. 19.
- Engines, Carburetor for internal-combustion. F. F. Stratton. No. 1,426,685; Aug. 22.
- Engines, Casing of internal-combustion. A. W. Wall. No. 1,402,695; Jan. 3.
- Engines, Charge-producing device for internal-combustion. A. P. Brush. No. 1,430,792; Oct. 3.
- Engines, Circuit controller for internal-combustion. H. Schmid and G. Fuegel. No. 1,431,599; Oct. 10.
- Engines, Circulating system for internal-combustion. C. L. Rayfield. No. 1,418,397; June 6.
- Engines, Combination igniter and fuel injector for Diesel-type. E. L. Kastler. No. 1,411,108; Mar. 28.
- Engines, Combined air pump and starter motor mechanism for internal-combustion. L. Wygodsky. No. 1,406,319; Feb. 14.
- Engines, Combined sparking plug and spark intensifier for internal-combustion. C. L. Thayer. No. 1,413,142; Apr. 18.
- Engines, Combined timer and distributor for internal-combustion. E. Smith. No. 1,403,203; Jan. 10.
- Engines, Compressed-air starting arrangement for internal-combustion. E. Herkt. No. 1,413,583; Apr. 25.
- Engines, Compression-relief device for internal-combustion. H. M. Crane. No. 1,439,798; Dec. 26.
- Engines, Compression-relief system for star-shaped. P. J. R. Postel-Vinay. No. 1,420,282; June 20.
- Engines, Connecting rod for. S. Wiltse. No. 1,413,645; Apr. 25.
- Engines, Connecting rod for. S. Wiltse. No. 1,425,567; Aug. 15.
- Engines, Construction for traction. E. E. Wickersham. No. 1,429,472; Sept. 19.
- Engines, Cooling and heating system for internal-combustion. F. W. Springer. No. 1,438,067; Dec. 5.
- Engines, Cooling arrangement for exhaust valves of internal-combustion. G. Cattaneo. No. 1,415,793; May 9.
- Engines, Cooling device for air-cooled. J. Bowen. No. 1,424,234; Aug. 1.
- Engines, Cooling device for internal-combustion. C. Gruwald. No. 1,422,565; July 11.
- Engines, Cooling-jacket construction for internal-combustion. A. A. Bull. No. 1,434,348; Oct. 31.
- Engines, Cooling system for internal-combustion. J. C. Armstrong. No. 1,432,518; Oct. 17.
- Engines, Cooling system for internal-combustion. W. H. Farr. No. 1,422,426; July 11.
- Engines, Cooling system for internal-combustion. J. V. Giesler. No. 1,414,780; May 2.
- Engines, Cooling system for internal-combustion. H. C. Mallory. No. 1,424,664; Aug. 1.
- Engines, Cooling system for internal-combustion. H. B. Schofield. No. 1,404,796; Jan. 31.
- Engines, Cooling system for the radiators of automobile. J. E. Robison. No. 1,403,709; Jan. 17.
- Engines, Counterbalance for the crank shafts of internal-combustion. F. O. Sterrett. No. 1,422,633; July 11.
- Engines, Crank case for internal-combustion. C. E. Hull. No. 1,433,821; Oct. 31.
- Engines, Cranking device for internal-combustion. C. Schürmann. No. 1,437,365; Nov. 28.
- Engines, Cylinder for internal-combustion. L. Beeghly. No. 1,409,518; Mar. 14.
- Engines, Cylinder for internal combustion. H. Junkers. No. 1,410,319; Mar. 21.
- Engines, Cylinder for internal-combustion. H. R. Setz. No. 1,437,559; Dec. 5.
- Engines, Cylinder of internal-combustion. G. Cattaneo. No. 1,416,170; May 16.
- Engines, Cylinder of internal-combustion. W. J. Still. No. 1,410,847; Mar. 28.
- Engines, Cylinders of uniflow steam. H. Pilling. No. 1,415,697; May 9.
- Engines, Decarbonizing valve for internal-combustion. D. M. Hepburn. No. 1,405,843; Feb. 7.
- Engines, Device for charging internal-combustion. L. Atwood. No. 1,417,483; May 30.
- Engines, Device for increasing the efficiency of internal-combustion. J. Ehrat. No. 1,413,711; Apr. 25.
- Engines, Device for injecting liquid fuel into working chambers of internal-combustion. V. Arschauff. No. 1,435,787; Nov. 14.
- Engines, Device for preheating the explosive mixture in explosion. G. W. McIlrath and J. E. Taylor. No. 1,415,184; May 9.
- Engines, Device for simultaneously starting a plurality of internal-combustion. M. Schäfer. No. 1,424,185; Aug. 1.
- Engines, Distributor-brush holder in magneto ignition apparatus for internal-combustion. G. Steiner. No. 1,412,144; Apr. 11.
- Engines, Driving mechanism for the ground-treading members of traction. J. G. Leyner. No. 1,424,494; Aug. 1.
- Engines, Dust collector for internal-combustion. P. M. Brereton. No. 1,411,606; Apr. 4.
- Engines, Eccentric for controlling steam valves on steam. W. Greyll. No. 1,402,597; Jan. 3.
- Engines, Economizer and decarbonizer for internal-combustion. G. L. D. James. No. 1,404,964; Jan. 31.
- Engines, Elbow fitting for. S. D. Hartog. No. 1,412,055; Apr. 11.
- Engines, Electric-motor-starting device for internal-combustion. F. Kratz. No. 1,414,653; May 2.
- Engines, Electric starter for internal-combustion. F. Billon. No. 1,416,326; May 16.
- Engines, Electric starter for internal-combustion. Z. R. Della Veneria. No. 1,433,760; Oct. 31.
- Engines, Extra-air valve for internal-combustion. W. Williams. No. 1,438,416; Dec. 12.
- Engines, Frame beam for horizontal. E. Kägl. No. 1,419,858; June 13.
- Engines, Fuel adapted for use in internal-combustion. M. C. Whitaker. No. 1,423,053; July 18.
- Engines, Fuel control for semi-Diesel. W. H. Firebaugh, Jr. No. 1,402,408; Jan. 3.
- Engines, Fuel-control mechanism for internal-combustion. G. M. Hamilton. No. 1,410,098; Mar. 21.
- Engines, Fuel-controlling mechanism for internal-combustion. M. A. Varney. No. 1,406,591; Feb. 14.
- Engines, Fuel converter for internal-combustion. L. W. G. Flynt. No. 1,405,196; Jan. 31.
- Engines, Fuel-feed system for internal-combustion. A. J. Guay. No. 1,435,117; Nov. 7.
- Engines, Fuel-feeding device for internal-combustion. W. E. Kemp. No. 1,411,034; Mar. 28.
- Engines, Fuel-feeding device for internal-combustion. N. Lombard. No. 1,407,204; Feb. 21.
- Engines, Fuel-feeding means for internal-combustion. W. I. Twombly. No. 1,437,281; Nov. 28.
- Engines, Fuel-feeding system for internal-combustion. E. P. du Pont. No. 1,402,749; Jan. 10.
- Engines, Fuel-feeding system for internal-combustion. S. A. Moss. No. 1,413,419; Apr. 18.
- Engines, Fuel-heating attachment for. J. A. Lind. No. 1,434,445; Nov. 7.
- Engines, Fuel injecting and igniting means for oil. E. A. Sperry. No. 1,432,214; Oct. 17.
- Engines, Fuel meter for internal-combustion. C. W. Humphrey. No. 1,435,237; Nov. 14.
- Engines, Fuel-mixing device for internal-combustion. O. M. Mundale. No. 1,420,732; June 27.
- Engines, Fuel-supply apparatus for internal-combustion. W. C. Carter. No. 1,423,913; July 25.
- Engines, Fuel-supply mechanism for internal-combustion. E. V. L. and E. A. Wilson. No. 1,406,598; Feb. 14.
- Engines, Fuel-supply system for explosive. A. L. Levin. No. 1,403,508; Jan. 17.
- Engines, Fuel-supply system for internal-combustion. A. L. Lamar. No. 1,408,749; Mar. 7.
- Engines, Fuelizing manifold for internal-combustion. W. Martin. No. 1,427,540; Aug. 29.
- Engines, Gas-supplying system for automobile. A. H. Heatzman. No. 1,405,918; Feb. 7.
- Engines, Gasoline feed for internal-combustion. C. L. Basle. No. 1,408,163; Feb. 28.
- Engines, Generator attachment means for gas. H. Tiedemann. No. 1,402,548; Jan. 3.
- Engines, Governing mechanism for internal-combustion. J. F. Lindberg. No. 1,427,485; Aug. 29.
- Engines, Governor valve for steam. A. K. Hinchman. No. 1,406,013; Feb. 7.

Alphabetical list of inventions—Continued.

- Engines, Head cover for internal-combustion. G. O. Blanchard. No. 1,429,014; Sept. 12.
- Engines, Heater and baffle for induction pipes of internal-combustion. L. Coatalen and J. S. Irving. No. 1,408,562; Mar. 7.
- Engines, Hydraulic control attachment for beating, bleaching, and washing. E. A. Peterson and W. J. McGinnis. No. 1,416,056; May 16.
- Engines, Ignition apparatus for internal-combustion. F. Kratz, H. Starker, and O. Selling. No. 1,415,581; May 9.
- Engines, Ignition apparatus for internal-combustion. N. Winblad. No. 1,424,056; July 25.
- Engines, Ignition apparatus for multiple. J. Lahiff. No. 1,409,730; Mar. 14.
- Engines, Ignition device for internal-combustion. F. A. Smith. No. 1,422,794; July 11.
- Engines, Ignition device for internal-combustion. F. R. Van Deventer. No. 1,402,387; Jan. 3.
- Engines, Ignition device for internal-combustion. H. R. Van Deventer. No. 1,410,428; Mar. 21.
- Engines, Ignition mechanism for gas. W. L. Diffendorf. 1,434,685; Nov. 7.
- Engines, Ignition system for internal-combustion. W. C. Brinton, Jr. No. 1,431,927; Oct. 17.
- Engines, Ignition system for internal-combustion. J. H. Melvin. No. 1,434,789; Nov. 7.
- Engines, Indicator for. W. T. Orr. No. 1,408,393; Feb. 28.
- Engines, Injector for steam. C. A. Nash. No. 1,417,853; May 30.
- Engines, Intake heater for gasoline. E. V. McCulloch. No. 1,406,048; Feb. 7.
- Engines, Intake manifold for internal-combustion. H. S. Benjamin. Nos. 1,431,280-1; Oct. 10.
- Engines, Intake manifold for internal-combustion. R. W. A. Brewer. No. 1,439,940; Dec. 26.
- Engines, Intake manifold for internal-combustion. C. H. Hallauer. No. 1,420,922; June 27.
- Engines, Liquid-fuel-feed system for gas. F. W. Springer. No. 1,418,489; June 6.
- Engines, Liquid-fuel-feeding device for internal-combustion. J. W. Jones. No. 1,408,208; Feb. 28.
- Engines, Liquid-fuel-supply apparatus for internal-combustion. W. Bowden. No. 1,433,870; Oct. 31.
- Engines, Lock for explosion. R. C. Anderton. No. 1,410,443; Mar. 21.
- Engines, Lubricating arrangement for internal-combustion. E. Mongermon. No. 1,440,094; Dec. 26.
- Engines, Lubricating device for gas. R. J. Broege. No. 1,417,659; May 30.
- Engines, Lubricating device for internal-combustion. C. B. Kirkman. No. 1,404,861; Jan. 31.
- Engines, Lubricating system for explosive. P. Brevard. No. 1,405,396; Feb. 7.
- Engines, Lubricating system for high-speed. J. Wertzeiser. No. 1,432,817; Oct. 24.
- Engines, Lubricating system for internal-combustion. C. P. Hollister. No. 1,403,957; Jan. 17.
- Engines, Lubricating system for internal-combustion. S. Severson. No. 1,404,797; Jan. 31.
- Engines, Lubrication of internal-combustion. C. P. Hollister. No. 1,414,644; May 2.
- Engines, Lubrication system of internal-combustion. F. W. Mead. No. 1,428,177; Sept. 5.
- Engines, Magneto-electric ignition machine for internal-combustion. J. Schneider, E. Hurlimann, and F. Billon. No. 1,419,767; June 13.
- Engines, Magneto-electric machine for internal-combustion. C. C. Puckette. No. 1,419,076; June 6.
- Engines, Magneto for multicylinder. W. E. Schwarzmenn. No. 1,402,897; Jan. 10.
- Engines, Magneto ignition apparatus for internal-combustion. J. Bohli. No. 1,417,184; May 23.
- Engines, Magneto ignition system for internal-combustion. J. L. Milton. No. 1,421,286; June 27.
- Engines, Magneto ignition system for internal-combustion. J. L. Milton. No. 1,423,672; July 25.
- Engines, Manifold for gas. J. G. Snyder. No. 1,413,804; Apr. 25.
- Engines, Manifold for internal-combustion. A. P. Brush. No. 1,437,395; Dec. 5.
- Engines, Manifold for internal-combustion. H. W. Roelling, E. H. Williams, and J. G. Bauer. No. 1,413,431; Apr. 18.
- Engines, Manifold heater for internal-combustion. A. G. Bridgford and S. B. Bolton. Nos. 1,427,058-9; Aug. 22.
- Engines, Manifold heater for internal-combustion. W. J. Fyan. No. 1,440,287; Dec. 26.
- Engines, Manifold lock for internal-combustion. H. P. Maloney. No. 1,426,308; Aug. 15.
- Engines, Means for altering the clearance in internal-combustion. T. G. Tulloch. No. 1,438,795; Dec. 12.
- Engines, Means for controlling the supply of combustible mixture to internal-combustion. G. Keith and W. A. Whatmough. No. 1,422,987; July 18.
- Engines, Means for indicating stopping, idling, and working times of automobile. R. Watson. No. 1,414,910; May 2.
- Engines, Means for lubricating internal-combustion. G. Constantinesco. No. 1,428,682; Sept. 12.
- Engines, Means for observing combustion in internal-combustion. H. Chapman. No. 1,433,530; Oct. 31.
- Engines, Means for tight jointing the piston rings of internal-combustion. F. Dufay and M. Billon. No. 1,414,263; Apr. 25.
- Engines, Means to prevent dead centers in. J. Calcaterra and O. J. Bernardoni. No. 1,430,491; Sept. 26.
- Engines, Method and apparatus for obtaining work in internal-combustion. J. G. Prosser. No. 1,417,859; May 30.
- Engines, Method and means for vaporizing fuel for internal-combustion. W. N. Harrison. No. 1,426,187; Aug. 15.
- Engines, Method of and apparatus for supplying fuel to cylinders of internal-combustion. R. F. Piatt. No. 1,436,904; Nov. 28.
- Engines, Muffler for explosive. M. J. O'Connor. No. 1,412,416; Apr. 11.
- Engines, Oil-fuel-injection device for internal-combustion. K. I. Crossley and W. L. Webb. No. 1,419,231; June 13.
- Engines, Oil gauge for internal-combustion. A. Brunner. No. 1,419,012; June 6.
- Engines, Oil heater for. C. E. Shipp. No. 1,406,766; Feb. 14.
- Engines, Oil tube for motor-vehicle. C. L. Kinder and B. V. Egbert. No. 1,440,156; Dec. 26.
- Engines, Oiling system for explosive. F. L. Johnson. No. 1,416,643; May 16.
- Engines, Oiling system for gasoline. R. Anderson. No. 1,427,768; Sept. 5.
- Engines, Oiling system for internal-combustion. A. Monsen. No. 1,416,490; May 16.
- Engines or apparatus, Means for control of. L. J. Creplet. No. 1,412,271; Apr. 11.
- Engines, Packing means for rotary. E. E. Bidwell. No. 1,424,977; Aug. 8.
- Engines, Permutation lock for the fuel-supply lines of internal-combustion. G. W. Coutts. No. 1,408,932; Mar. 7.
- Engines, Piston action for gas. E. L. Young. No. 1,431,617; Oct. 10.
- Engines, Piston for hydrocarbon. S. D. Hartog. No. 1,430,010; Sept. 26.
- Engines, Piston for internal-combustion. O. Alt. No. 1,405,887; Feb. 7.
- Engines, Piston for internal-combustion. J. Bolan. No. 1,402,393; Jan. 3.
- Engines, Piston for internal-combustion. L. V. Thomas. No. 1,410,776; Mar. 28.
- Engines, Piston for reciprocating. F. H. Royce. No. 1,403,641; Jan. 17.
- Engines, Piston-rod connection for explosion. P. J. R. Postel-Vinay. No. 1,413,682; Apr. 25.
- Engines, Poppet-valve mechanism for internal-combustion. F. D. Shepherd. No. 1,418,479; June 6.
- Engines, Power indicator for internal-combustion. H. Shephard. No. 1,422,485; July 11.
- Engines, Preheating device for internal-combustion. A. L. Lamar. No. 1,411,633; Apr. 4.
- Engines, Preparing an explosive mixture for internal-combustion. J. A. Secor. No. 1,436,690; Nov. 28.
- Engines, Pressure indicator for internal-combustion. G. B. Frankforter. No. 1,424,461; Aug. 1.
- Engines, Primer for gas. J. B. Garner and J. B. Anderson. No. 1,431,518; Oct. 10.
- Engines, Primer for internal-combustion. H. D. Waterhouse. No. 1,421,627; July 4.
- Engines, Priming and decarbonizing device for internal-combustion. F. D. Malby. No. 1,422,998; July 18.
- Engines, Priming cup for internal-combustion. E. Minge. No. 1,439,015; Dec. 19.
- Engines, Process and apparatus for fuel injection in internal-combustion. L. A. Charles. No. 1,418,232; May 30.
- Engines, Radiator for explosion. E. Harter. No. 1,421,221; June 27.
- Engines, Radiator for explosive. C. F. Sperry. No. 1,420,878; June 27.
- Engines, Radiator for internal-combustion. C. G. Branstator. No. 1,434,195; Oct. 31.
- Engines, Radiator for internal-combustion. F. Garguilo. No. 1,426,725; Aug. 22.
- Engines, Regenerator or vaporizer for internal-combustion. F. T. Armstrong. No. 1,413,564; Apr. 25.
- Engines, Regulating mechanism for controlling the supply of fuel to internal-combustion. J. F. Björkgren. No. 1,410,360; Mar. 21.
- Engines, Regulator for gasoline. W. J. Forster. No. 1,432,990; Oct. 24.
- Engines, Reversing mechanism for. W. H. Rogers. No. 1,403,569; Jan. 17.
- Engines, Reversing mechanism for internal-combustion. R. Barbour. No. 1,416,319; May 16.
- Engines, Rotary valve for internal-combustion. J. Keller. No. 1,406,986; Feb. 21.
- Engines, Rotary valve for internal-combustion. W. W. Thiede. No. 1,403,721; Jan. 17.
- Engines, Rotary valve structure for internal-combustion. A. C. Mehrtens. No. 1,411,449; Apr. 4.
- Engines, Safety crank for. W. Pokrzywa, J. Matyga, and S. Lewandowski. No. 1,434,842; Nov. 7.
- Engines, Safety device for cranking mechanism for internal-combustion. F. R. McGough. No. 1,411,500; Apr. 4.
- Engines, Safety stop for power. F. W. Parsons. No. 1,409,020; Mar. 7.

Alphabetical list of inventions—Continued.

- Engines, Scavenging device for combustion. J. C. M. Mac-lagan. No. 1,421,273; June 27.
- Engines, Scavenging system for internal-combustion. W. H. Fauber. No. 1,417,310; May 23.
- Engines, Sectional piston for. H. Petersen. No. 1,428,656; Sept. 12.
- Engines, Short-circuit terminal for the magneto-electric ignition apparatus of internal-combustion. G. Steiner. No. 1,428,666; Sept. 12.
- Engines, Silencer of internal-combustion. L. Dürr. No. 1,439,506; Dec. 19.
- Engines, Silent exhaust box for internal-combustion. H. Schneebeli. No. 1,402,896; Jan. 10.
- Engines, Sled for donkey. G. W. Ives. No. 1,417,740; May 30.
- Engines, Sounding device actuated from internal-combustion. G. Constantinesco. No. 1,432,743; Oct. 24.
- Engines, Spark-testing device for gasoline. W. P. Mott. No. 1,423,622; July 25.
- Engines, Sparking plug for internal-combustion. J. Martinez. No. 1,418,009; May 30.
- Engines, Sparking plug for internal-combustion. S. Remus. No. 1,423,152; July 13.
- Engines, Speed-control device for internal-combustion. F. J. Brumme. No. 1,410,796; Mar. 28.
- Engines, Speed governor for internal-combustion. J. W. Madison. No. 1,409,115; Mar. 7.
- Engines, Starter for internal-combustion. B. M. Bancroft. No. 1,435,888; Nov. 14.
- Engines, Starter for internal-combustion. O. Brisbois. No. 1,435,101; Nov. 7.
- Engines, Starter for internal combustion. F. J. McCandless. No. 1,419,461; June 13.
- Engines, Starter for internal-combustion. T. E. Nelson. No. 1,434,309; Oct. 31.
- Engines, Starting apparatus for internal-combustion. E. P. Dumanois. No. 1,425,950; Aug. 15.
- Engines, Starting attachment for two-cycle internal-combustion. S. B. Gold. No. 1,438,437; Dec. 12.
- Engines, Starting device for internal-combustion. A. J. E. Munters. No. 1,440,311; Dec. 26.
- Engines, Starting generator for internal-combustion. S. G. Baits. No. 1,440,051; Dec. 26.
- Engines, Starting mechanism for internal-combustion. F. Conrad. No. 1,413,829; Apr. 25.
- Engines, Starting mechanism for internal-combustion. L. T. Thornycroft. No. 1,414,233; Apr. 25.
- Engines, Supercharger for internal-combustion. S. A. Moss. No. 1,413,420; Apr. 18.
- Engines, Supercharger for internal-combustion. C. C. Thomas. Nos. 1,428,924-5; Sept. 12.
- Engines, Supply and exhaust manifold for internal-combustion. L. K. Snell. No. 1,403,353; Jan. 10.
- Engines, Supplying a combustible mixture to internal-combustion. W. H. C. Higgins, Jr. No. 1,423,482; July 18.
- Engines, Switch for controlling ignition and starting circuits in explosive. G. Giovannoni. No. 1,414,734; May 2.
- Engines, Tandem two-belt fan drive for tractor. P. H. Thompson. No. 1,429,464; Sept. 19.
- Engines, Temperature-controlling apparatus for internal-combustion. F. M. Furber. No. 1,403,493; Jan. 17.
- Engines, Temperature-controlling mechanism for internal-combustion. A. B. Modine. No. 1,433,399; Oct. 24.
- Engines, Temperature-indicating instrument for automobile. H. H. Boyce. No. 1,408,259; Feb. 28.
- Engines, Temperature-indicating system for internal-combustion. H. Schlaich. No. 1,430,688; Oct. 3.
- Engines, Temperature regulator for internal-combustion. L. C. Galli. No. 1,409,698; Mar. 14.
- Engines, Thermostatic device for cooling systems of internal-combustion. C. L. Rayfield. No. 1,421,830; July 4.
- Engines, Timer for internal-combustion. J. B. Drahonovsky. No. 1,413,011; Apr. 18.
- Engines, Timing and injecting device for internal-combustion. W. B. S. Whaley. No. 1,426,934; Aug. 22.
- Engines, Timing device for hydrocarbon. G. and C. H. Warrington. No. 1,418,996; June 6.
- Engines, Undercasing for motor-vehicle. R. D. Riddle. No. 1,422,622; July 11.
- Engines, Utilizing the energy of the exhaust of. J. Stumpf. No. 1,411,226; Mar. 28.
- Engines, Vacuum fuel-feed device for internal-combustion. C. S. Burton. No. 1,408,440; Mar. 7.
- Engines, Vacuum fuel-feeding device for internal-combustion. C. S. Burton. No. 1,439,689; Dec. 26.
- Engines, Valve action for explosive. E. S. Cameron. No. 1,402,478; Jan. 3.
- Engines, Valve-control mechanism for internal-combustion. E. V. Parker. No. 1,410,263; Mar. 21.
- Engines, Valve for gas. H. H. Crawford. No. 1,406,979; Feb. 21.
- Engines, Valve for internal-combustion and other. P. F. Daniel. No. 1,414,341; May 2.
- Engines, Valve gear for internal-combustion. E. S. Sewell. No. 1,408,781; Mar. 7.
- Engines, Valve mechanism for internal-combustion. A. G. Elliott and J. Southern. No. 1,411,208; Mar. 28.
- Engines, Valve mechanism for internal-combustion. A. L. P. Guéret. No. 1,425,381; Aug. 8.
- Engines, Valve mechanism of internal-combustion. J. Zeitlin. No. 1,402,701; Jan. 8.
- Engines, Valve-operating device for internal-combustion. J. B. Kirby. No. 1,405,597; Feb. 7.
- Engines, Valve-operating mechanism for internal-combustion. G. Riley. No. 1,413,493; Apr. 18.
- Engines, Valve-spring lifter for internal-combustion. C. R. Trottnow. No. 1,413,812; Apr. 25.
- Engines, Vulcanizing attachment for internal-combustion. J. M. Stucker and W. J. Kamerer. No. 1,414,445; May 2.
- Engines, Water-circulating device for gas. K. S. Knutson. No. 1,402,869; Jan. 10.
- Engines, Water-circulating pump for internal-combustion. C. A. Russell. No. 1,433,235; Oct. 24.
- Engines, Water circulator for water-cooled. F. B. Upton and W. C. Kirk. No. 1,428,722; Sept. 12.
- Engines with one or more cylinders, Air-cooled cylinder for. V. Sfetescu. No. 1,434,069; Oct. 31.
- Engraver's clamp. C. E. Linnig. No. 1,420,715; June 27.
- Engravers, Plate twirler for. J. A. Carey. No. 1,424,986; Aug. 8.
- Engraving machine. J. Freund. No. 1,434,602; Nov. 7.
- Engraving machine. R. Ruddell. No. 1,434,794; Nov. 7.
- Engraving machine. G. R. Worner. No. 1,423,289; July 18.
- Ensilage cutters, Automatic water control for. C. F. Byrne. No. 1,434,349; Oct. 31.
- Ensilage cutters, Self-feeding attachment for. H. A. Billingsley. No. 1,416,251; May 16.
- Ensilage cutters, Shredder knife for. T. E. Webb. No. 1,408,850; Mar. 7.
- Ensilage-tamping apparatus. F. M. Fishel. No. 1,411,428; Apr. 4.
- Envelope. F. O. Balogh. No. 1,411,077; Mar. 28.
- Envelope. C. J. Branstead. No. 1,412,335; Apr. 11.
- Envelope. Y. Burgess. No. 1,420,470; June 20.
- Envelope. H. Clare. No. 1,418,620; June 6.
- Envelope. S. D. Conner. No. 1,434,097; Oct. 31.
- Envelope. J. L. Dickinson. No. 1,432,541; Oct. 17.
- Envelope. H. J. Eickoff. No. 1,423,653; July 25.
- Envelope. H. Heading. No. 1,421,227; June 27.
- Envelope. G. C. Hohein. No. 1,403,414; Jan. 10.
- Envelope. B. A. Larsen. No. 1,424,024; July 25.
- Envelope. N. Pepin. No. 1,439,637; Dec. 19.
- Envelope. C. E. Pierce. No. 1,402,650; Jan. 3.
- Envelope. P. C. Rabb. No. 1,433,653; Oct. 31.
- Envelope. D. Ward. No. 1,431,201; Oct. 10.
- Envelope. I. Winter. No. 1,411,547; Apr. 4.
- Envelope and opener, Safety. W. Weiss. No. 1,427,666; Aug. 29.
- Envelope blanks, Machine for making window. S. Furman. No. 1,428,429; Sept. 5.
- Envelope-clasp punching and affixing machine. J. Striss. No. 1,435,509; Nov. 14.
- Envelope-closure tool. J. Striss. No. 1,429,792; Sept. 19.
- Envelope, Combined sending and return. A. W. Geggie. No. 1,425,004; Aug. 8.
- Envelope, Contribution. L. R. Swett. No. 1,412,496; Apr. 11.
- Envelope, Double. J. M. Ness. No. 1,419,888; June 13.
- Envelope-fastener applying device. A. Tell. No. 1,428,498; Sept. 5.
- Envelope-feeding mechanism. C. Chisholm. (Reissue.) No. 15,419; July 25.
- Envelope filling and closing machine. G. F. Russ. No. 1,421,835; July 4.
- Envelope folder. J. F. Sherlock. No. 1,413,689; Apr. 25.
- Envelope for sending post cards. H. Chambon. No. 1,409,829; Mar. 14.
- Envelope-handling device. C. L. Post. No. 1,437,443; Dec. 5.
- Envelope-handling device. C. L. Post. No. 1,439,755; Dec. 26.
- Envelope, Lock-sealed. M. H. Flaherty. No. 1,422,045; July 4.
- Envelope machines, Picker mechanism for. W. E. Swift. No. 1,438,620; Dec. 12.
- Envelope machines, Safety device for. A. Novick. No. 1,434,141; Oct. 31.
- Envelope-making machine. H. F. Marston. No. 1,407,206; Feb. 21.
- Envelope-making machine. C. M. Neuner. No. 1,411,369; Apr. 4.
- Envelope-making machines, Delivery mechanism for. A. E. Augustine. No. 1,427,083; Aug. 29.
- Envelope-making machines, Drying blower for. A. E. Augustine. No. 1,423,297; July 18.
- Envelope-making machines, Elevator control mechanism for. A. E. Augustine. No. 1,432,824; Oct. 24.
- Envelope-making machines, Gripper mechanism for. A. E. Augustine. No. 1,421,889; July 4.
- Envelope-making machines, Trap mechanism for. A. E. Augustine. No. 1,403,374; Jan. 10.
- Envelope manufacture. J. M. Townsend. No. 1,426,523; Aug. 22.
- Envelope material, Mechanism for applying window patches to. G. W. Swift, Jr. No. 1,404,068; Jan. 17.
- Envelope. Multiple-pocket. A. Dietsche, Jr. No. 1,404,193; Jan. 24.
- Envelope opener. A. T. Smith. No. 1,408,415; Feb. 28.
- Envelope or double envelope, Two-fold. J. Ikeda and M. Miura. No. 1,421,240; June 27.
- Envelope, Return. R. E. McCoy. No. 1,438,122; Dec. 5.
- Envelope protector. A. B. Ashby. No. 1,434,765; Nov. 7.

Alphabetical list of inventions—Continued.

- Eraser and lead holder, Combined. C. R. Keeran. No. 1,432,468; Oct. 17.
- Envelope, Safety. W. F. Hammel. No. 1,406,456; Feb. 14.
- Envelope, Safety. E. F. Nissen. No. 1,407,212; Feb. 21.
- Envelope, Safety. E. W. Owen. No. 1,412,705; Apr. 11.
- Envelope-sealing device. E. H. Foote. No. 1,417,897; May 30.
- Envelope-sealing mechanism. W. H. Wheeler. No. 1,410,859; Mar. 28.
- Envelope, variety, Container of the. M. Stark. No. 1,405,636; Feb. 7.
- Envelopes, Fastener for. L. Arntz. No. 1,417,790; May 30.
- Envelopes, Machine for affixing fastenings to. C. R. Scudder and J. B. Huguélet. No. 1,405,014; Jan. 31.
- Envelopes, Machine for attaching flap-securing means to. P. F. Choate. No. 1,438,980; Dec. 19.
- Envelopes, Machine for making lined. A. Novick. No. 1,421,816; July 4.
- Envelopes, Machine for sealing and stamping. M. Vidaver. No. 1,421,867; July 4.
- Envelopes, Manufacturing. J. H. Husted. No. 1,404,526; Jan. 24.
- Envelopes or similar wrappers, Closure for. L. A. Olivé. No. 1,427,165; Aug. 29.
- Envelopes, etc., Process and mechanism for attaching strings to. A. Novick. No. 1,402,008; Jan. 3.
- Equalizer, Four-horse. J. Robson. No. 1,423,682; July 25.
- Eraser. L. G. Cowles. No. 1,408,564; Mar. 7.
- Eraser cleaner. W. J. Haynes, Jr. No. 1,416,201; May 16.
- Eraser-cleaning machine. W. J. Haynes, Jr. No. 1,416,200; May 16.
- Erasing shield. M. Edmundson. No. 1,415,088; May 9.
- Ergotamine and making same, Salts of. A. Stoll. No. 1,435,187; Nov. 14.
- Escalating vehicle. W. Cormack. No. 1,434,682; Nov. 7.
- Escalator, Freight. H. Frost. No. 1,433,884; Oct. 31.
- Escapement mechanism. E. Trost. No. 1,416,528; May 16.
- Escutcheon, Adjustable. P. Mueller. No. 1,436,667; Nov. 28.
- Escutcheon, Adjustable. P. Mueller and A. C. Schuermann. No. 1,436,668; Nov. 28.
- Escutcheon, Key-locking. P. R. Moffitt. No. 1,405,144; Jan. 31.
- Escutcheon plate, Adjustable. L. W. Gates. No. 1,433,946; Oct. 31.
- Ester condensation products, Production of. A. A. Backhaus. No. 1,425,626; Aug. 15.
- Esters and making same, New liquid phosphoric. A. L. Laska and H. H. C. Prillwitz. No. 1,425,392; Aug. 8.
- Esters and making same, New mixed phosphoric. A. L. Laska and H. H. C. Prillwitz. No. 1,425,393; Aug. 8.
- Esters, Apparatus for producing high-grade. A. A. Backhaus. No. 1,403,224; Jan. 10.
- Esters, Apparatus for the manufacture of. A. A. Backhaus. No. 1,425,624; Aug. 15.
- Esters, Making. W. H. Rodebush. No. 1,430,324; Sept. 26.
- Esters, Manufacture of. A. A. Backhaus. No. 1,425,625; Aug. 15.
- Esters, Manufacture of. J. A. Steffens. No. 1,421,604; July 4.
- Esters, Manufacturing. J. A. Steffens. No. 1,421,605; July 4.
- Esters of dioxydiethyl sulphide and making same. G. Kränzlin and M. Corell. No. 1,422,869; July 18.
- Esterification, Apparatus for. A. A. Backhaus. No. 1,403,225; Jan. 10.
- Etching, Apparatus for electrical. R. M. Weeks. No. 1,427,876; Sept. 5.
- Etching compound, Metal. H. C. Gleockler. No. 1,418,253; May 30.
- Etching or like machine. W. S. Eaton. Nos. 1,421,426-7; July 4.
- Etching, Process and apparatus for electrical. R. M. Weeks. No. 1,427,877; Sept. 5.
- Etching rolls to mutually register. C. W. Saalburg. No. 1,407,802; Feb. 21.
- Etchings, Making grain. C. W. Saalburg. No. 1,407,303; Feb. 21.
- Ether, Apparatus for the continuous production of. E. A. Barbet. No. 1,436,332; Nov. 21.
- Ethyl-chloride tube. H. P. Kraft. No. 1,431,236; Oct. 10.
- Ethylene and other components from gaseous mixtures containing the same, Separating. G. O. Curme, Jr. No. 1,422,184; July 11.
- Ethylene, Apparatus for making. A. A. Backhaus. No. 1,402,336; Jan. 3.
- Ethylene, Apparatus for producing. M. C. Whitaker and A. A. Backhaus. No. 1,402,329; Jan. 3.
- Ethylene, Producing. M. C. Whitaker and A. A. Backhaus. No. 1,421,640; July 4.
- Evaporating apparatus. O. Carr. No. 1,405,756; Feb. 7.
- Evaporating apparatus. D. H. Kleinschmidt. No. 1,412,531; Apr. 11.
- Evaporating apparatus. C. R. Mabee. No. 1,420,645; June 27.
- Evaporating liquid or semiliquid substances, Method of and apparatus for. R. G. Brindle and A. H. Flint. No. 1,415,783; May 9.
- Evaporating liquids. H. J. Zimmermann. No. 1,402,467; Jan. 3.
- Evaporating liquids and in evaporating apparatus, Continuously. E. S. Sandberg. No. 1,433,040; Oct. 24.
- Evaporating moisture-containing materials, Apparatus for. G. D. Harris. No. 1,405,780; Feb. 7.
- Evaporating pan. C. E. Rogers. No. 1,417,943; May 30.
- Evaporation. C. R. Mabee. No. 1,420,641; June 27.
- Evaporation of stored liquid, Prevention of. F. A. Howard, C. I. Robinson, and J. M. Jennings. No. 1,415,351; May 9.
- Evaporation, Prevention of. F. A. Howard and J. M. Jennings. No. 1,415,352; May 9.
- Evaporator. W. H. P. Creighton. No. 1,424,992; Aug. 8.
- Evaporator. R. Mellor. No. 1,424,254; Aug. 1.
- Evaporator. J. C. Miller. No. 1,415,255; May 9.
- Evaporator. H. W. Paulus. No. 1,418,878; June 6.
- Evaporator. A. L. Webre. No. 1,436,739; Nov. 28.
- Evaporator, feed-water heater, and the like. H. C. Davis. No. 1,420,366; June 20.
- Evaporator system. S. Brown. No. 1,405,483; Feb. 7.
- Excavating and loading device. G. C. Crossley. No. 1,415,223; May 9.
- Excavating and loading machine. L. H. Draeger. No. 1,431,104; Oct. 3.
- Excavating and loading machine. E. Keast. No. 1,422,767; July 11.
- Excavating apparatus. S. Gautreaux. No. 1,415,544; May 9.
- Excavating apparatus and drag bucket. J. C. Mundy and H. T. Wilson. No. 1,420,733; June 27.
- Excavating machine. W. Collatz. No. 1,412,922; Apr. 18.
- Excavating machine. S. Kelly. No. 1,437,594; Dec. 5.
- Excavating machine. L. Kercher, A. T. and G. T. Ronk. No. 1,403,418; Jan. 10.
- Excavating machine. R. Kurtz. No. 1,411,632; Apr. 4.
- Excavating machine. B. C. Porter. No. 1,410,503; Mar. 21.
- Excavating machine. D. A. Rossi and F. Reynolds. No. 1,414,832; May 2.
- Excavating machine of the rotary type. L. Larsen. No. 1,428,788; Sept. 12.
- Excavating machinery. B. A. Middlemiss. No. 1,405,796; Feb. 7.
- Excavating mechanism. B. G. and H. D. Simmons. No. 1,404,064; Jan. 17.
- Excavator. H. L. Barton. No. 1,416,933; May 23.
- Excavator. L. P. Clutter. No. 1,405,288; Jan. 31.
- Excavator. J. A. Gilman. No. 1,424,093; July 25.
- Excavator. L. P. Green. No. 1,430,076; Sept. 26.
- Excavator. P. W. Hill. No. 1,415,561; May 9.
- Excavator. J. Pederson. No. 1,414,201; Apr. 25.
- Excavator. C. H. Ruth. No. 1,438,332; Dec. 12.
- Excavator. M. E. Watts. No. 1,434,937; Nov. 7.
- Excavator and loader. W. Ferris. No. 1,428,540; Sept. 12.
- Excavator and pile driver. J. Perna. No. 1,411,180; Mar. 28.
- Excavator and pile driver, Combination. J. Perna. No. 1,437,545; Dec. 5.
- Excavator and scraper. M. Collins. No. 1,416,268; May 16.
- Excavator, Bucket chain. W. G. and O. R. Humphreys. No. 1,419,382; June 13.
- Excavator, Cableway. W. H. Crawford. No. 1,406,725; Feb. 14.
- Excavator, Drag-line. J. F. Fitzpatrick. No. 1,438,701; Dec. 12.
- Excavator, Drag-line cableway. W. E. Hale. No. 1,430,984; Oct. 3.
- Excavator or other supporting means. V. G. Anderson. No. 1,431,864; Oct. 10.
- Excavator, Swinging-scoop. J. C. French. No. 1,430,542; Oct. 3.
- Excavators, Bucket trip for steam. D. De Santo. No. 1,435,109; Nov. 7.
- Excavators, Cleaning device for. G. H. Greimann. No. 1,406,849; Feb. 14.
- Excavators, Saddle-block structure for. C. E. Gage. No. 1,422,259; July 11.
- Exerciser. G. A. Lindstrom and G. Senn. No. 1,439,573; Oct. 3.
- Exercising apparatus. L. W. Albizu. No. 1,438,804; Dec. 12.
- Exercising apparatus. A. A. Armstrong. No. 1,409,992; Mar. 21.
- Exercising apparatus. C. E. Lincoln. No. 1,412,691; Apr. 11.
- Exercising apparatus. J. S. C. Nicholls and M. W. Smith. No. 1,416,741; May 23.
- Exercising apparatus. E. J. Piscitelli. No. 1,402,179; Jan. 3.
- Exercising device. F. H. Blake. No. 1,432,013; Oct. 17.
- Exercising device. L. C. Reeves and M. A. Webb, Jr. No. 1,422,888; July 18.
- Exercising device. G. T. and M. C. Southgate. No. 1,402,263; Jan. 3.
- Exhaust box. J. F. Anderson. No. 1,417,224; May 23.
- Exhaust manifolds, Plate attachment for. J. E. Alexander and W. G. Gehrs. No. 1,434,358; Nov. 7.
- Exhibiting apparatus. C. M. Farber. No. 1,428,766; Sept. 12.
- Exhibiting device. A. Ames, Jr. No. 1,427,428; Aug. 29.
- Exhibiting machine. G. Taussig. No. 1,411,750; Apr. 4.
- Exhibitions, etc., Construction and roofing of buildings for. F. W. Lancaster. No. 1,402,077; Jan. 3.

Alphabetical list of inventions—Continued.

- Exhibitor. J. C. Hughes. No. 1,436,503; Nov. 21.
 Exhibitor, Changeable. T. L. Easley. No. 1,405,767; Feb. 7.
 Exhibitor, Changeable. G. J. Motter. No. 1,412,885; Apr. 18.
 Exhibitor, Changeable. R. Parks. No. 1,438,396; Dec. 12.
 Exhibitor, Price. L. S. Hodgdon. No. 1,435,469; Nov. 14.
 Expanding apparatus with automatic stopping and adjustable action. H. E. A. Gallon. No. 1,410,464; Mar. 21.
 Expanding brake. M. F. Willien and H. Delpierre. No. 1,440,258; Dec. 26.
 Expandible bit. J. Crawford and F. A. Weaver. No. 1,415,317; May 9.
 Expansion and counterboring bit, Combined. W. F. Wall. No. 1,425,300; Aug. 8.
 Expansion bolt. I. Church and L. Montgomery. No. 1,407,782; Feb. 28.
 Expansion bolt. S. S. Matthes. No. 1,434,394; Nov. 7.
 Expansion bolt. H. W. Pleister and J. Karitzky. No. 1,417,198; May 23.
 Expansion bolt. H. F. Voelker. No. 1,435,434; Nov. 14.
 Expansion joint. F. H. Richards. No. 1,420,217; June 20.
 Expansion joint. F. P. Smith. Nos. 1,427,557-8; Aug. 29.
 Expansion joint. J. E. Wunderlick. No. 1,417,126; May 23.
 Expansion shield. J. Kennedy. No. 1,410,258; Mar. 21.
 Expansion shield. J. E. Ogden. No. 1,431,176; Oct. 10.
 Expansion shield with interlocking cap. C. C. Tomkinson. No. 1,432,310; Oct. 17.
 Expense register. W. B. Stevens. No. 1,409,608; Explosion engine. R. Y. Bovee. No. 1,424,872; Aug. 8.
 Explosion engine. M. A. Quiroga. No. 1,432,900; Oct. 24.
 Explosion engine, Two-stroke. J. de Cosmo. No. 1,413,974; Apr. 25.
 Explosion engine working under injection of liquid fuel. E. H. Tartrais. No. 1,414,384; May 2.
 Explosion motors, Efficiency indicator for. H. H. Davis. No. 1,429,192; Sept. 12.
 Explosion-preventing device. R. T. F. Dodds. No. 1,434,879; Nov. 7.
 Explosion-proof devices, Testing apparatus for. C. W. Starker. No. 1,435,264; Nov. 14.
 Explosive. T. L. Davis. No. 1,432,321; Oct. 17.
 Explosive. J. R. Mardick. No. 1,415,889; May 16.
 Explosive. E. von Herz. No. 1,402,693; Jan. 3.
 Explosive. G. Weber. No. 1,406,121; Feb. 7.
 Explosive. A. Wohl. No. 1,408,056; Feb. 28.
 Explosive and manufacture thereof. C. Manuelle and L. Bernardini. No. 1,409,963; Mar. 21.
 Explosive and preparing the same, High. T. L. Davis. No. 1,419,027; June 6.
 Explosive composition. L. O. Bryan. No. 1,420,364; June 20.
 Explosive composition and the manufacture thereof. E. M. Werner. No. 1,430,272; Sept. 26.
 Explosive compositions and product thereof, Increasing the sensitiveness and power of. W. M. Dehn. No. 1,428,011; Sept. 5.
 Explosive containers, Filling high-. J. P. Madden and L. Fisher. No. 1,420,637; June 27.
 Explosive engine. H. B. Black. No. 1,424,793; Aug. 8.
 Explosive engine. H. L. Brownback. No. 1,414,009; Apr. 25.
 Explosive engine. S. H. Hart. No. 1,410,752; Mar. 28.
 Explosive engine. O. E. Kallwitz. No. 1,415,096; May 9.
 Explosive engine. H. E. Shepard. No. 1,427,555; Aug. 29.
 Explosive engine. L. Strebel. No. 1,411,536; Apr. 4.
 Explosive engine. M. E. Tobeler. No. 1,438,877; Dec. 12.
 Explosive-engine attachment. J. T. Ellis and O. A. Kern. No. 1,417,308; May 23.
 Explosive engines, Combined muffler and deodorizer for. F. Embanks. No. 1,421,432; July 4.
 Explosive having liquid air as a base. G. Weber. No. 1,431,711; Oct. 10.
 Explosive, High. W. R. Swint. No. 1,411,674; Apr. 4.
 Explosive material. C. J. S. Lundsgaard and K. T. Herbst. No. 1,423,233; July 18.
 Explosive mixture. P. E. Haynes. No. 1,408,293; Feb. 28.
 Explosive mixture of an internal-combustion engine, Method and apparatus for heating the. G. E. A. Hallett. No. 1,432,751; Oct. 24.
 Explosive mixtures, Apparatus for the production of. G. B. Collier. No. 1,436,480; Nov. 21.
 Explosive, Plastic. S. Adde. No. 1,410,868; Mar. 28.
 Explosives, Handling high. J. A. Schofield and C. W. Hall. No. 1,402,971; Jan. 10.
 Explosives, Manufacture of. T. Hawkins. No. 1,413,532; Apr. 18.
 Express and parcel-post shipping rates, Guide showing comparative. C. W. Flint. No. 1,420,828; June 27.
 Expressing apparatus. G. F. Hauf. No. 1,410,301; Mar. 21.
 Extensible tool. E. Felix. No. 1,412,235; Apr. 11.
 Extension handle. J. W. Bate. No. 1,420,809; June 27.
 Extension rod. J. McKenna and H. E. Chase. No. 1,412,561; Apr. 11.
 Extension table. L. E. Bessette. No. 1,431,282; Oct. 10.
 Extension table. G. Froelich. No. 1,435,597; Nov. 14.
 Extension table. J. Gerber. No. 1,431,886; Oct. 10.
 Extension table. M. Grossman. No. 1,415,549; May 9.
 Extension table. J. Merdzinski. No. 1,411,741; Apr. 4.
 Extension table. J. Rogginger. No. 1,414,304; Apr. 25.
 Extension table. W. A. Snyder. No. 1,439,582; Dec. 19.
 Extension table. A. G. Van Hees and W. Kirkpatrick. No. 1,434,074; Oct. 31.
 Extracting apparatus, Rotary. J. W. Bodman. No. 1,424,335; Aug. 1.
 Extractor. *See—*
 Automobile extractor. Gas extractor.
 Bearing-sleeve extractor. Honey extractor.
 Bottle-cap extractor. Oil and like extractor.
 Centrifugal extractor. Self-anchoring stump extractor.
 Continuous extractor. Wheel extractor.
 Cotter-pin extractor.
 Fruit-juice extractor.
 Extractor. D. H. Benjamin and A. R. Curtis. No. 1,423,827; July 25.
 Extractor attachment. F. A. Blake. No. 1,402,207; Jan. 3.
 Extractor, Continuous. L. T. Murphy. No. 1,414,703; May 2.
 Extruding machine. J. E. Heller. No. 1,422,356; July 11.
 Extrusion machine of the worm screw compressing type. A. W. Sizer. No. 1,402,672; Jan. 3.
 Extrusion, Manufacture of articles by. C. A. Parsons, A. Q. Carnegie, M. Bone, and S. S. Cook. No. 1,430,399; Sept. 26.
 Eye, Mechanical. L. V. Aronson. No. 1,408,794; Mar. 7.
 Eye protector. C. O. Cozzens. No. 1,426,550; Aug. 22.
 Eye protector. G. W. McKinstry. No. 1,404,039; Jan. 17.
 Eye protector. H. H. Styll. No. 1,421,744; July 4.
 Eye protector. E. D. Tillyer. No. 1,404,668; Jan. 24.
 Eye tester. H. E. Myers. No. 1,414,888; May 2.
 Eye-testing apparatus and process. C. Sloan. No. 1,417,283; May 23.
 Eye-testing machine. H. D. Reese and J. M. Harless. No. 1,437,776; Dec. 5.
 Eye-washing device. F. Maier. No. 1,437,435; Dec. 5.
 Eyeglass. J. M. van Heusen. No. 1,407,450; Feb. 21.
 Eyeglass case. E. H. Flitton. No. 1,427,947; Sept. 5.
 Eyeglass cases, Clips for. W. B. Evans. No. 1,409,840; Mar. 14.
 Eyeglass frame. W. S. Searles. No. 1,438,338; Dec. 12.
 Eyeglass holder. R. Kelly. No. 1,438,532; Dec. 12.
 Eyeglass mounting. L. Arntz. No. 1,427,996; Sept. 5.
 Eyeglass mounting. H. R. Gettle and C. S. Scott. No. 1,419,040; June 6.
 Eyeglass mounting. C. M. Haynes. No. 1,404,762; Jan. 31.
 Eyeglass mounting. W. S. Searles. No. 1,433,481; Oct. 24.
 Eyeglass mountings, Gauge for. M. Hansen. No. 1,421,465; July 4.
 Eyeglass-releasing device. W. Gauer. No. 1,419,369; June 13.
 Eyeglass-temple holder. F. Radcliffe. No. 1,418,170; May 30.
 Eyeglasses. A. Gleichen. No. 1,438,821; Dec. 12.
 Eyeglasses. C. D. Hillabold. No. 1,412,114; Apr. 1.
 Eyeglasses. A. L. Leibe. No. 1,439,112; Dec. 19.
 Eyeglasses and eyeshades, Support for. L. C. Knackstedt. No. 1,435,533; Nov. 14.
 Eyeglasses, Nose piece for. F. G. Procter, jr. No. 1,434,912; Nov. 7.
 Eyeglasses, Shell frame for. J. H. Brown. No. 1,428,749; Sept. 12.
 Eyelet. L. Dürr. No. 1,410,900; Mar. 28.
 Eyelet reservoir. F. A. Rumney. No. 1,409,201; Mar. 14.
 Eyeletting machine. H. T. Doulett. No. 1,434,356; Oct. 31.
 Eyeletting machine. H. B. Miller. No. 1,436,186; Nov. 21.
 Eyeletting machine. Duplex. G. W. Jacques. No. 1,425,016; Aug. 8.
 Eyeletting machines; Disk-feeding mechanism for. C. R. Scudder and J. B. Huguette. No. 1,405,015; Jan. 31.
 Eyepiece prism. F. E. Wright. No. 1,417,962; May 30.
 Fabric. *See—*
 Bed-spring fabric. Metal fabric.
 Electric heating fabric. Roofing fabric.
 Knitted fabric. Spring-bed-bottom fabric.
 Knitted rib fabric. Wire-link fabric.
 Laminated fabric. Woven-wire fabric.
 Fabric. H. L. Duncan. No. 1,410,899; Mar. 28.
 Fabric. R. M. Carson and J. J. Leahy. No. 1,430,360; Sept. 26.
 Fabric. F. B. Manley. No. 1,433,467; Oct. 24.
 Fabric, Apparatus for making strand. W. Jameson. (Re-issue.) No. 15,349; May 9.
 Fabric articles, Means for shaping and drying. A. W. Johnson. No. 1,425,969; Aug. 15.
 Fabric-blank-folding machine. A. W. Gavitt. No. 1,420,480; June 20.
 Fabric, Boring embroidery. R. Zahn. No. 1,403,221; Jan. 10.
 Fabric-cutting apparatus. J. F. Hennessy. No. 1,423,798; July 25.
 Fabric-cutting machine. H. Miamin. (Reissue.) No. 15,344; Apr. 25.
 Fabric dispensing and measuring machine. S. R. Anderson and L. F. Campbell. No. 1,420,607; June 20.
 Fabric-fastening device. S. Jasgur. No. 1,406,390; Feb. 14.
 Fabric feed, Continuous. M. Castircum. No. 1,415,312; May 9.

Alphabetical list of inventions—Continued.

- Fabric, Machine for constructing a laminated cohesive interleaf. L. A. Subers and E. Mosman. No. 1,425,147; Aug. 8.
- Fabric measuring and cost computing machine. J. L. Wheeler and E. A. Reed. No. 1,413,307; Apr. 18.
- Fabric notching device. R. B. Day. No. 1,403,740; Jan. 17.
- Fabric or the like, finishing the raw edges of coated. C. R. Fargo. No. 1,437,505; Dec. 5.
- Fabric particularly applicable to the manufacture of ring packing for glands. A. R. Trist. No. 1,414,001; Apr. 25.
- Fabric, Protected. G. J. Nikolas. No. 1,429,295; Sept. 19.
- Fabric-stripping machine. C. D. Hibbs. No. 1,402,067; Jan. 3.
- Fabric with vulcanizable plastic material, Coating. G. F. Fisher. No. 1,402,288; Jan. 3.
- Fabric-working mechanism. R. H. Lansing. No. 1,425,987; Aug. 15.
- Fabrics, also including silk, Production of pattern effects in cotton and other vegetable fiber. R. S. Willows, F. T. Pollitt, and T. Leach. No. 1,411,598; Apr. 4.
- Fabrics, Composition for preserving. H. Bruyn. No. 1,437,397; Dec. 5.
- Fabrics, leather, furs, sponges, etc., from cocoons and making same, Substitute for. A. Delubac. No. 1,425,948; Aug. 15.
- Fabrics, Machine for inspecting and cutting. S. Kislevitz. No. 1,414,818; May 2.
- Fabrics, Means for cutting. R. Loeb. No. 1,421,969; July 4.
- Fabrics, Means for facilitating the inspection of tubular. J. F. Kolb. No. 1,433,555; Oct. 31.
- Fabrics, Method of and means for weaving circular. E. Ingham. No. 1,438,916; Dec. 12.
- Fabrics, Producing a repair in. A. O. Austin. No. 1,424,332; Aug. 1.
- Fabrics, Producing tubular. E. Ingham. No. 1,403,785; Jan. 17.
- Facing machine, Clay-product. W. E. Wilson. No. 1,417,788; May 30.
- Facing machine for facing the centers of wood-spoke wheels. H. Flick, J. P. Voelker, and H. Dunn. No. 1,426,168; Aug. 15.
- Facing tool. J. A. Sharpnack. No. 1,423,462; July 18.
- Facings and the like to walls and the like, Securing. R. A. Megenitty. No. 1,429,682; Sept. 19.
- Facings, Making friction. F. C. Stanley. No. 1,420,882; June 27.
- Fan. J. C. Armstrong. No. 1,424,391; Aug. 1.
- Fan. A. J. Aylesworth. Nos. 1,436,850-1; Nov. 28.
- Fan. E. B. Ayres. No. 1,430,486; Sept. 26.
- Fan. R. Clade. No. 1,419,719; June 13.
- Fan. R. I. Faucett. No. 1,401,972; Jan. 3.
- Fan. A. C. Gough. No. 1,432,060; Oct. 17.
- Fan. J. T. Hope. No. 1,421,477; July 4.
- Fan. C. E. Jacobs. No. 1,404,298; Jan. 24.
- Fan. W. H. Kempton and O. F. Rowe. No. 1,430,561; Oct. 3.
- Fan. F. L. McGahan. No. 1,423,348; July 18.
- Fan. I. J. Ponstein. No. 1,418,165; May 30.
- Fan. A. Z. Seror. No. 1,407,488; Feb. 21.
- Fan. J. E. Shearer. No. 1,420,155; June 20.
- Fan. N. Warshaw. No. 1,424,864; Aug. 8.
- Fan. B. C. Washington and S. K. Joice. No. 1,424,961; Aug. 8.
- Fan, Automatic pocket. H. and H. Sirot. No. 1,412,576; Apr. 11.
- Fan-belt connection. J. H. Tabler. No. 1,411,595; Apr. 4.
- Fan, Ceiling. M. M. Glasser. No. 1,409,090; Mar. 7.
- Fan drive. V. W. Pagé. No. 1,411,126; Mar. 28.
- Fan, Exhaust. A. F. Roth. No. 1,409,199; Mar. 14.
- Fan, Folding. H. C. Ohm. No. 1,420,496; June 20.
- Fan, Mechanically-driven. J. D. Karle. No. 1,435,477; Nov. 14.
- Fan, Motor. J. Brzozowski. No. 1,426,256; Aug. 15.
- Fan, Motor. P. Gennette. No. 1,419,841; June 13.
- Fan, Oscillating. F. Diehl. No. 1,403,151; Jan. 10.
- Fan, Transmitting. M. P. Schetzel. No. 1,429,538; Sept. 19.
- Fan or turbine wheel, Construction of rotary. S. O. Johns. No. 1,427,391; Aug. 29.
- Fan-pulley assembly. G. F. Jontz. No. 1,408,602; Mar. 7.
- Fan-pulley wheel and crank ratchet. G. A. Sleight. No. 1,426,227; Aug. 15.
- Fan, Trick. C. F. Brehmer. No. 1,407,836; Feb. 28.
- Fan wheel. R. W. Oswald. No. 1,423,964; July 25.
- Fans, Adapter switch for ceiling. D. M. Allen. No. 1,404,080; Jan. 17.
- Fans and personal utilities equipment, Mount for manipulatable. I. Greensaft. No. 1,434,609; Nov. 7.
- Fans, Friction drive for. J. H. Leitch. No. 1,425,870; Aug. 15.
- Fanning mill. H. A. Stein. No. 1,417,469; May 23.
- Fanning mills, Wild oats attachment for. E. Grimsrud and T. T. Teiten. No. 1,404,363; Jan. 24.
- Fare box, Platform. H. J. Baur. No. 1,435,687; Nov. 14.
- Fare-recording apparatus. P. R. Forman. No. 1,422,686; July 11.
- Fare registers, Means for operating. J. M. Dapron. No. 1,408,348; Feb. 28.
- Farm gate. A. H. Crissey. No. 1,414,863; May 2.
- Farm gate. C. Nielsen. No. 1,425,411; Aug. 8.
- Farm gate. J. F. Schweiger. No. 1,418,332; June 6.
- Farm gate. D. E. White. No. 1,410,980; Mar. 28.
- Farm implement. G. S. Stephenson. No. 1,429,376; Sept. 19.
- Farm machinery, Seat for. L. Kisor and R. W. Hammett. No. 1,437,848; Dec. 5.
- Farm machinery. J. Sharp. No. 1,418,981; June 6.
- Farm products, Machine for preparing. F. M. Parks and F. A. Finch. No. 1,415,191; May 9.
- Farming implement, Convertible. W. W. Wheeler. No. 1,440,323; Dec. 26.
- Farming implement, Power-operated. G. O. Hodge. No. 1,429,946; Sept. 26.
- Farming machine. J. H. Lewis. No. 1,421,968; July 4.
- Fastener. C. H. Allen. No. 1,438,739; Dec. 12.
- Fastener. L. Arkin. No. 1,402,827; Jan. 19.
- Fastener. W. J. Burbery. No. 1,428,358; Sept. 5.
- Fastener. R. J. Carney. No. 1,431,566; Oct. 10.
- Fastener. M. F. Carr. No. 1,433,784; Oct. 31.
- Fastener. F. S. Carr. No. 1,433,786; Oct. 31.
- Fastener. F. S. Carr. No. 1,433,790; Oct. 31.
- Fastener. F. S. Carr. Nos. 1,433,792-7; Oct. 31.
- Fastener. W. E. Choate. No. 1,434,243; Oct. 31.
- Fastener. S. M. Corbett. No. 1,424,803; Aug. 8.
- Fastener. W. Crotty. No. 1,434,735; Nov. 7.
- Fastener. I. M. Erickson. No. 1,402,405; Jan. 3.
- Fastener. J. Gaynor. No. 1,412,176; Apr. 11.
- Fastener. G. E. Goodrich. No. 1,439,812; Dec. 26.
- Fastener. P. J. Hayes. No. 1,431,796; Oct. 10.
- Fastener. C. B. Merriam. No. 1,432,482; Oct. 17.
- Fastener. L. M. Parker. No. 1,436,192; Nov. 21.
- Fastener. O. M. Rygh. No. 1,438,264; Dec. 12.
- Fastener. M. P. E. Saltzman. No. 1,411,188; Mar. 28.
- Fastener. H. O. Smith. No. 1,409,034; Mar. 7.
- Fastener. H. O. Smith. No. 1,409,069; Mar. 7.
- Fastener. G. Sundback. No. 1,403,988; Jan. 17.
- Fastener. P. Werner. No. 1,417,286; May 23.
- Fastener and making same. W. Kahn. No. 1,428,101; Sept. 5.
- Fastener and tag holder. W. H. Slattery. No. 1,409,252; Mar. 14.
- Fastener-feed mechanism. G. W. Jacques. Nos. 1,434,703-4; Nov. 7.
- Fastener-feeding mechanism. G. W. Jacques. No. 1,434,702; Nov. 7.
- Fastener, Handle-loop. A. Rosenband. No. 1,436,684; Nov. 28.
- Fastener-inserting machine. A. E. Jerram, J. Gouldbourn, and F. Ricks. No. 1,426,389; Aug. 22.
- Fastener-inserting machines, Fastener-stock-supplying mechanism for. S. A. Dobyne. No. 1,436,020; Nov. 21.
- Fastener parts, Tool for setting. D. Bourque. No. 1,438,692; Dec. 12.
- Fastener, Pressure. I. Puc. No. 1,439,327; Dec. 19.
- Fastener, Safety. W. J. Ryan. No. 1,432,039; Oct. 17.
- Fastener, Safety. B. N. Wickwire. No. 1,404,818; Jan. 31.
- Fastener, Sectional. H. W. Davidson. No. 1,412,459; Apr. 11.
- Fastener, Separable. J. F. Becker. No. 1,419,104; June 6.
- Fastener, Separable. M. F. Carr. No. 1,433,785; Oct. 31.
- Fastener, Separable. F. S. Carr. Nos. 1,433,787-9; Oct. 31.
- Fastener, Separable. F. S. Carr. No. 1,433,791; Oct. 31.
- Fastener, Separable. F. S. Carr. No. 1,433,798; Oct. 31.
- Fastener, Separable. E. R. Nebeling. No. 1,430,462; Sept. 26.
- Fastener-setting machine. W. Shaw. No. 1,423,626; July 25.
- Fastener-setting machine, Duplex. F. L. Harmon. No. 1,426,473; Aug. 22.
- Fasteners in sheet material, Machine for setting. G. M. Eames and G. W. Jacques. No. 1,434,688; Nov. 7.
- Fasteners, Machine for inserting. J. F. Davey. No. 1,415,924; May 16.
- Fasteners, Machine for operating upon. A. Latham. No. 1,410,560; Mar. 28.
- Fasteners, Making. G. Sundback. No. 1,434,857; Nov. 7.
- Fasteners, Socket for separable. D. Bourque. No. 1,430,787; Oct. 3.
- Fastening. E. Knapp. No. 1,419,864; June 13.
- Fastening clip. O. N. Tevander. No. 1,427,866; Sept. 5.
- Fastening device. C. B. Battin. No. 1,412,825; Apr. 18.
- Fastening device. E. K. Day. No. 1,420,528; June 20.
- Fastening device. H. G. Goldstein. No. 1,425,006; Aug. 8.
- Fastening device. E. Hongler. No. 1,439,168; Dec. 19.
- Fastening device. J. F. Langenau. No. 1,437,427; Dec. 5.
- Fastening device. J. P. Lavigne and D. J. Murnane, Jr. No. 1,402,775; Jan. 10.
- Fastening device. H. P. La Borde. No. 1,430,238; Sept. 26.
- Fastening device. L. Ottinger. (Reissue.) No. 15,412; July 18.
- Fastening device. C. B. Peterson. No. 1,413,489; Apr. 18.
- Fastening device. R. D. Pulver. No. 1,427,846; Sept. 5.
- Fastening device. H. A. Schmidt. No. 1,416,756; May 23.
- Fastening device. H. F. C. and F. W. Schultz. No. 1,422,482; July 11.
- Fastening device. I. Weinrich. No. 1,413,082; Apr. 18.
- Fastening element. C. Collins. No. 1,418,699; June 6.
- Fastening-inserting machine. E. Erickson. No. 1,425,516; Aug. 15.
- Fastening-inserting machine. F. N. La Chapelle. No. 1,415,935; May 16.

Alphabetical list of inventions—Continued.

- Fastening-inserting machine. F. L. Mackenzie. No. 1,403,511; Jan. 17.
- Fastening-inserting machine. F. M. Moody. No. 1,436,719; Nov. 28.
- Fastening-inserting machine. F. Ricks and A. A. Aston. No. 1,407,000; Feb. 21.
- Fastening means and applying same. M. Craighead. No. 1,423,833; July 25.
- Fastening, Temporary. E. R. Pruitt. No. 1,426,098; Aug. 15.
- Fastenings, Clothing guard for. W. G. Cline. No. 1,434,092; Oct. 31.
- Fastenings, Machine for reclaiming. R. H. Lawson. No. 1,403,507; Jan. 17.
- Fastenings, Method and mechanism for handling. J. Fausse. No. 1,431,941; Oct. 17.
- Fat and oil from raw materials, Extraction of. H. Bollmann. No. 1,411,154; Mar. 28.
- Fat, The production of a solvent for. P. Dietze. No. 1,405,902; Feb. 7.
- Faucet. E. Bittel. No. 1,428,826; Sept. 12.
- Faucet. C. D. Brown. No. 1,408,979; Mar. 7.
- Faucet. W. Dietz. No. 1,419,237; June 13.
- Faucet. F. V. Gilbert. No. 1,436,650; Nov. 28.
- Faucet. W. E. Madden. No. 1,411,972; Apr. 4.
- Faucet. M. W. Russell. No. 1,429,637; Sept. 19.
- Faucet. T. G. Strater. No. 1,402,384; Jan. 3.
- Faucet, Adjustable mixing. O. G. Hitchcock. No. 1,425,478; Aug. 8.
- Faucet attachment, Water-supply-. I. Cooper. No. 1,434,945; Nov. 7.
- Faucet, Combination. H. D. Kelly. No. 1,419,386; June 13.
- Faucet, Dispensing. G. W. Cooke. No. 1,405,099; Jan. 31.
- Faucet for barrels. L. Bednar and J. Jasus. No. 1,416,779; May 23.
- Faucet, Laundry-tray. O. S. Burman. No. 1,439,792; Dec. 26.
- Faucet, Mixing. W. A. England and J. L. Mattingly. No. 1,429,574; Sept. 19.
- Faucet, Mixing. W. Meier. No. 1,402,633; Jan. 3.
- Faucet, Pedal-controlled mixing. W. Meier. No. 1,402,632; Jan. 3.
- Faucet, Push-button. G. R. Long. No. 1,403,509; Jan. 17.
- Faucet, Self-closing. G. R. Long and H. G. Cordley. No. 1,434,832; Nov. 7.
- Faucet, Self-closing. J. McNeil. No. 1,418,664; June 6.
- Faucet, Swinging. E. P. Erickson. No. 1,403,396; Jan. 10.
- Faucet, Water-heating. O. F. Bruman. No. 1,429,060; Sept. 12.
- Faucets, Attachment for soda-fountain. F. Catini. No. 1,432,592; Oct. 17.
- Faucets, Pot-holding attachment for. H. L. Lechler. No. 1,420,197; June 20.
- Faucets, Removable valve seat for. F. J. Sklaska. No. 1,431,701; Oct. 10.
- Faucets, Spraying device for hot and cold water. J. Tuzzoli. No. 1,432,501; Oct. 17.
- Feathers, Cleaning, deodorizing, and drying. P. E. Woll. No. 1,402,823; Jan. 10.
- Feed alarm, Overhead. O. Sheppard, jr., and R. A. Trace. No. 1,438,406; Dec. 12.
- Feed, Automatic. R. S. Silvis and T. Evers. No. 1,427,027; Aug. 22.
- Feed box, Folding. M. Davis. No. 1,422,422; July 11.
- Feed collet and making the same. C. J. Fancher and R. A. Johnson. No. 1,433,878; Oct. 31.
- Feed collet and making the same. C. J. Fancher and R. A. Johnson. No. 1,433,882; Oct. 31.
- Feed collet and making the same. R. A. Johnson and C. J. Fancher. No. 1,433,890; Oct. 31.
- Feed control, Automatic. E. R. Ramsey and A. L. Blomfield. Nos. 1,413,934-5; Apr. 25.
- Feed control, Automatic. G. C. Stacy. No. 1,440,031; Dec. 26.
- Feed-control mechanism. T. W. C. Beattie. No. 1,411,400; Apr. 4.
- Feed cutters, Shear-bar anchor for. O. C. Frick. No. 1,404,518; Jan. 24.
- Feed device, Strip-. S. R. Shoup. No. 1,415,721; May 9.
- Feed for live stock and poultry, Manufacturing. F. A. Cooley. No. 1,409,998; Mar. 21.
- Feed hopper for poultry. W. A. Rudolph. No. 1,427,021; Aug. 22.
- Feed mechanism. Z. P. Candee. No. 1,440,208; Dec. 26.
- Feed mechanism. T. B. Huestis. No. 1,437,059; Nov. 28.
- Feed mechanism, Timed. J. A. Gray. No. 1,440,288; Dec. 26.
- Feed mixer. J. G. Steele. No. 1,429,790; Sept. 19.
- Feed-mixing machine. W. J. Marsh. No. 1,419,397; June 13.
- Feed oil cup, Forced-. W. H. Roberts. No. 1,407,086; Feb. 21.
- Feed receptacle, Animal. S. Asaturian. No. 1,421,142; June 27.
- Feed-reducing machine. O. J. Williams. No. 1,402,199; Jan. 3.
- Feed regulator. H. J. Carson. No. 1,426,041; Aug. 15.
- Feed regulator. C. A. Shultz. No. 1,403,649; Jan. 17.
- Feed roller. J. T. Fay and L. B. Grasberger. No. 1,416,404; May 16.
- Feed roller. P. H. Vaughn. No. 1,423,783; July 25.
- Feed roller, Expansion. J. Wegner. No. 1,402,726; Jan. 3.
- Feed stop. R. L. Wilcox. No. 1,437,578; Dec. 5.
- Feed trough for animal pens. R. J. Langer. No. 1,413,410; Apr. 18.
- Feed tub. L. F. Lloyd. No. 1,435,404; Nov. 14.
- Feed water, Air separator for. M. R. Hickman. No. 1,426,076; Aug. 15.
- Feed-water heater. C. D. Young. No. 1,433,589; Oct. 31.
- Feed-water-heater system, Locomotive. E. A. Averill. No. 1,429,553; Sept. 19.
- Feed-water regulator. V. V. Veenschoten. No. 1,439,208; Dec. 19.
- Feeder. E. D. Richardson. No. 1,427,640; Aug. 29.
- Feeder. J. C. Schaffer. No. 1,419,946; June 20.
- Feeder. L. I. Ziegler. No. 1,427,341; Aug. 29.
- Feeder, Agitating. J. L. Morris. No. 1,413,345; Apr. 18.
- Feeder and disinfectant, Poultry. H. Kenyon. No. 1,433,081; Oct. 24.
- Feeder and hive ventilator, Combined. C., E. R., C. C., and E. C. Heim. No. 1,435,118; Nov. 7.
- Feeder and scrap container, Chicken. F. A. Schumacher. No. 1,403,979; Jan. 17.
- Feeder and thrasher, Extension. C. C. Pfister. No. 1,423,149; July 18.
- Feeder, Automatic. A. Johnson. No. 1,417,741; May 30.
- Feeder, Automatic calf. M. Neumann. No. 1,437,004; Nov. 28.
- Feeder, Bee. L. H. Achenbach. No. 1,426,701; Aug. 22.
- Feeder, Calf. I. Bratcher and O. Burghardt. No. 1,426,252; Aug. 15.
- Feeder, Calf. J. B. and A. C. C. Clark. No. 1,402,739; Jan. 10.
- Feeder, Center. D. Bertini. No. 1,434,940; Nov. 7.
- Feeder, Chick. W. A. McCollough. No. 1,415,875; May 9.
- Feeder, Chicken. J. P. Rego. No. 1,404,543; Jan. 24.
- Feeder, Dewatering and settling tank. J. R. Wilkinson, E. A. Barnard, and L. E. Booth. No. 1,429,929; Sept. 12.
- Feeder drum. E. A. H. Jacob. No. 1,416,830; May 23.
- Feeder, Hog. E. A. Klump. (Reissue.) No. 1,5283; Feb. 14.
- Feeder, Percentage. E. R. Draver. No. 1,435,822; Nov. 14.
- Feeder, Poultry. L. D. Belvel. No. 1,437,462; Dec. 5.
- Feeder, Poultry. C. E. Canell. No. 1,424,079; July 25.
- Feeder, Poultry. J. C. Hostler. No. 1,425,013; Aug. 8.
- Feeder, Poultry. G. Reinhardt. No. 1,430,405; Sept. 26.
- Feeder, Poultry and stock. E. C. Faust, D. E. Speicher, and R. B. Ullom. No. 1,409,841; Mar. 14.
- Feeder, Stock. A. J. Davis. No. 1,423,915; July 25.
- Feeder, Stock. C. G. Huggins. No. 1,429,287; Sept. 19.
- Feeder, Stock. E. C. Shaw. No. 1,419,950; June 20.
- Feeder, Stock. H. A. Taylor. No. 1,435,188; Nov. 14.
- Feeders, Delivery-wheel trip for. P. Gitzendanner and F. J. Albert. No. 1,426,980; Aug. 22.
- Feeders, Register device for. W. B. Story. No. 1,403,653; Jan. 17.
- Feeding and collating mechanism, Article. H. L. Evans and J. W. Andrews. No. 1,437,409; Dec. 5.
- Feeding and conveying apparatus. J. C. French. No. 1,409,695; Mar. 14.
- Feeding apparatus. J. W. Barwell, J. Ward, N. Nelson, J. Hingher, W. E. Booth, and W. L. Blows. No. 1,418,267; May 30.
- Feeding apparatus, Mechanical. W. A. Blum. No. 1,403,667; Jan. 17.
- Feeding apparatus, Receptacle-. E. E. Lawrence. No. 1,432,702; Oct. 17.
- Feeding attachment. D. D. Long. No. 1,420,200; June 20.
- Feeding cupped articles, Attachment for. B. and S. Nagy. No. 1,414,786; May 2.
- Feeding device. W. E. Coultas, Jr. No. 1,419,025; June 6.
- Feeding device. E. R. Draver. No. 1,415,319; May 9.
- Feeding device. E. Fish. No. 1,404,195; Jan. 24.
- Feeding device. F. I. Raymond. No. 1,437,863; Dec. 5.
- Feeding device. F. S. Thurston. No. 1,423,698; July 25.
- Feeding device, Automatic stock-. E. J. O'Neill and H. T. White. No. 1,429,297; Sept. 19.
- Feeding device, Poultry-. S. M. McCurdy. No. 1,410,639; Mar. 28.
- Feeding device, Poultry. G. Willman. No. 1,409,434; Mar. 14.
- Feeding fastenings, Mechanism for. J. Gouldbourn. No. 1,408,452; Mar. 7.
- Feeding machine, Article-. O. N. Ritchie and H. C. Boykin. No. 1,421,569; July 4.
- Feeding machine, Article-. O. N. Ritchie and H. C. Boykin. No. 1,433,911; Oct. 31.
- Feeding machine, Ammunition-shell-. H. J. Bragdon. No. 1,408,497; Mar. 7.
- Feeding machine, Blank-. H. W. Muller. No. 1,413,181; Apr. 18.
- Feeding machine, Sheet-. F. L. Cross. No. 1,403,541; Jan. 17.
- Feeding machine, Tack-. E. O. Starka. No. 1,408,482; Mar. 7.
- Feeding material to treating chambers. J. T. Fenton. No. 1,432,170; Oct. 17.
- Feeding mechanism. S. Cooper. No. 1,428,324; Sept. 5.
- Feeding mechanism. J. W. Leary. No. 1,413,038; Apr. 18.
- Feeding mechanism. C. J. Lietz. No. 1,437,527; Dec. 5.

Alphabetical list of inventions—Continued.

- Feeding mechanism. G. Schick. No. 1,439,843; Dec. 26.
Feeding mechanism. J. Sharp. No. 1,422,229; July 11.
Feeding mechanism. Article. L. L. Salfsberg. No. 1,435,743; Nov. 14.
Feeding mechanism. Automatic. G. C. Euler. No. 1,433,990; Oct. 31.
Feeding mechanism. Box. C. Holly. No. 1,411,699; Apr. 4.
Feeding mechanism. Material. G. M. Johns. No. 1,426,648; Aug. 22.
Feeding mechanism. Stock-bar. G. W. Drake and L. R. Tufts. No. 1,402,748; Jan. 10.
Feeding roller. T. C. Morris. No. 1,409,395; Mar. 14.
Feeding, sorting, and collecting mechanism. A. F. Sweden. No. 1,429,547; Sept. 19.
Feet, Apparatus for treatment of the. M. A. Radford. No. 1,430,404; Sept. 26.
Feldspar and quartz, Separating. F. P. Knight and J. T. Simmin. No. 1,404,974; Jan. 31.
Felly. G. Walther and P. W. Klinger. No. 1,404,499; Jan. 24.
Felly forming machine. J. E. Batie. No. 1,416,676; May 23.
Felt and making the same. Composite. R. P. Perry. (Re-issue.) No. 15,461; Sept. 26.
Felt, Saturating. L. Kirschbraun. No. 1,417,841; May 30.
Felts and fabrics machine for splicing. R. G. Jackson. No. 1,437,312; Nov. 28.
Fence. O. Johnson. No. 1,430,382; Sept. 26.
Fence. J. E. Loeffler. No. 1,429,084; Sept. 12.
Fence. T. Norton. No. 1,408,132; Feb. 28.
Fence, Miniature. W. I. Ravert. No. 1,426,215; Aug. 15.
Fence, Portable. M. W. Rhoades. No. 1,429,774; Sept. 19.
Fence protector. W. L. Butcher. No. 1,406,929; Feb. 14.
Fence stretcher. C. Hague. No. 1,427,952; Sept. 5.
Fence, Woven-wire. J. L. and C. E. Elliott. No. 1,434,051; Oct. 31.
Fencepost. L. D. Cole. No. 1,408,723; Mar. 7.
Fencepost. W. R. Covan. No. 1,409,155; Mar. 14.
Fencepost. J. A. Fitch and F. C. Shea. No. 1,426,469; Aug. 22.
Fencepost. W. P. Heckler. No. 1,423,934; July 25.
Fencepost. P. J. Hindmarsh. No. 1,405,586; Feb. 7.
Fencepost. J. S. Hollander. No. 1,425,653; Aug. 15.
Fencepost. A. Pelesky. No. 1,420,140; June 20.
Fencepost. A. J. Zimmerman. No. 1,408,332; Feb. 28.
Fencepost and brace, Combination. A. A. Hensley. No. 1,408,506; Mar. 7.
Fencepost and wire fastener. G. E. Russell. No. 1,426,777; Aug. 22.
Fencepost form. Q. G. Carpenter. No. 1,438,517; Dec. 12.
Fencepost, Metal. O. M. Knox. No. 1,419,633; June 13.
Fencepost, Metal. O. M. Knox. No. 1,439,423; Dec. 19.
Fencepost, Metallic. W. A. Holland. No. 1,437,057; Nov. 28.
Fencepost, Metallic. C. Klein. No. 1,408,007; Feb. 28.
Fenceposts, Mold for. J. B. Storms. No. 1,439,033; Dec. 19.
Fenceposts, Mold for use in production of. F. M. Conroy. No. 1,431,635; Oct. 10.
Fender. See—
Auto fender. Life saving fender.
Automobile fender. Safety fender.
Automobile safety fender. Tractor fender.
Bumper-bar fender. Vehicle fender.
Cultivator fender. Vehicle drop fender.
Fender. W. H. Bands. No. 1,433,287; Dec. 12.
Fender. C. B. Fowler. No. 1,410,399; Mar. 21.
Fender. E. Mayne-Meade and P. J. Quinn. No. 1,437,945; Dec. 5.
Fender. J. Vajda. No. 1,431,855; Oct. 10.
Fender and nonskid automatic brake, Combined. G. Barber. No. 1,402,279; Jan. 3.
Fender attachment. O. O. Ballard and J. C. Stedman. No. 1,415,295; May 9.
Fender brace. E. M. Arnold. No. 1,408,966; Mar. 7.
Fender brace. T. J. Bury. No. 1,434,477; Nov. 7.
Fender brace structure. J. R. Pickup and F. Seeley. No. 1,409,401; Mar. 14.
Fender rim and wired-edge tool and the like. H. R. Kennedy. Nos. 1,427,299-300; Aug. 29.
Fermentation meter. A. J. Banks. No. 1,429,269; Sept. 19.
Fermenting tank. H. W. Noe. No. 1,402,248; Jan. 3.
Fems, Preserving. M. Segall. No. 1,410,226; Mar. 21.
Ferromanganese, Melting. J. H. Hall and R. D. Jordan. No. 1,421,218; June 27.
Ferromolybdenum, Manufacture of. J. M. Skelley and J. Merson. No. 1,437,272; Nov. 28.
Ferrotungsten, Manufacture of. J. M. Skelley and J. Merson. No. 1,437,271; Nov. 28.
Ferrotungsten, Purifying tin-bearing. F. M. Becket. No. 1,429,272; Sept. 19.
Ferro-uranium, Making. F. F. Mueller and R. W. Harris. No. 1,433,403; Oct. 24.
Ferrous surfaces, Oxidation of. T. Rondelli and Q. Sestini. No. 1,439,447; Dec. 19.
Ferrule, Interchangeable tool-holder. A. McCallum. No. 1,407,668; Feb. 21.
Ferrule-shaping machine. W. E. Young. No. 1,435,679; Nov. 14.
Ferrules with wheel spokes, Machine for engaging. J. E. Batie. No. 1,416,677; May 23.
Ferryboats, drawbridges, etc., Guard for. W. J. Donovan. No. 1,403,750; Jan. 17.
Fertilizer. A. H. Cowles. No. 1,408,169; Feb. 28.
Fertilizer. S. J. Smith. No. 1,402,102; Jan. 3.
Fertilizer. W. O. Snelling. No. 1,410,037; Mar. 21.
Fertilizer, Ammonium-nitrate. B. F. Halvorsen. No. 1,406,455; Feb. 14.
Fertilizer and its use. E. E. Free. No. 1,409,126; Mar. 7.
Fertilizer and making same. G. Edgar. No. 1,413,013; Apr. 18.
Fertilizer and making the same. H. A. Webster. No. 1,420,596; June 20.
Fertilizer and producing the same. L. D. Poock. No. 1,439,188; Dec. 19.
Fertilizer, Conditioning. C. A. Butt. No. 1,418,618; June 6.
Fertilizer containing potassium or sodium and producing the same, Phosphate. A. L. Kreiss. No. 1,413,168; Apr. 18.
Fertilizer-distributing machine. W. Printz. No. 1,413,132; Apr. 18.
Fertilizer-distributing machine. W. Printz. No. 1,418,169; May 30.
Fertilizer distributor. W. C. Creel. No. 1,430,155; Sept. 26.
Fertilizer distributor. D. C. Daniel. No. 1,423,649; July 25.
Fertilizer distributor. A. A. Hodges. No. 1,415,643; May 9.
Fertilizer distributor. C. L. Kunkler and F. J. Fullenkamp. No. 1,403,695; Jan. 17.
Fertilizer distributors, Furrow opener for. E. R. Phillips. No. 1,413,353; Apr. 18.
Fertilizer drier. P. J. Hamler. (Reissue.) No. 15,362; May 23.
Fertilizer making. J. P. Hamler. No. 1,437,973; Dec. 5.
Fertilizer material and making same, Phosphatic. L. R. Coates. No. 1,425,747; Aug. 15.
Fertilizer material and producing same. A. F. Hoffman. No. 1,428,633; Sept. 12.
Fertilizer process and apparatus. J. H. Huffstutter. No. 1,438,830; Dec. 12.
Fertilizer, Production of. R. Balmer. No. 1,408,064; Feb. 28.
Fertilizer pot. H. Kleb. No. 1,424,829; Aug. 8.
Fertilizers containing phosphoric acid and potassium, Production of. T. Haegge. No. 1,411,696; Apr. 4.
Fertilizers, Machine for distributing. W. Printz. No. 1,426,671; Aug. 22.
Fertilizing elements from manure, Extracting. C. E. Gardan. No. 1,422,434; July 11.
Fertilizing substances, Treatment of undecomposed. D. Lo Monaco. No. 1,402,638; Jan. 3.
Fiber board. M. Chew. No. 1,423,081; July 18.
Fiber board. J. C. Peabody. No. 1,406,410; Feb. 14.
Fiber board, Apparatus for producing. M. Chew. No. 1,423,082; July 18.
Fiber-board box. J. L. Christensen. No. 1,422,540; July 11.
Fiber board, Indented. C. G. Muench. No. 1,417,552; May 30.
Fiber board, Producing. M. Chew. No. 1,423,083; July 18.
Fiber container, Open-end. A. L. Weis. No. 1,432,932; Oct. 24.
Fiber-drying machines and the like, Wire-cloth apron for. T. G. Sargent. No. 1,438,865; Dec. 12.
Fiber from seeds, Mechanism for removing useful. A. A. Vardell. No. 1,426,687; Aug. 22.
Fiber from seeds, Mechanism for removing useful. A. A. Vardell. No. 1,436,372; Nov. 21.
Fiber-handling mechanism. L. Holland-Letz. No. 1,415,930; May 16.
Fiber liberation. G. A. Richter. No. 1,427,125; Aug. 29.
Fiber, Machine for cleaning or hacking. J. B. Stenger, E. McCaffray, and C. E. Oyler. No. 1,418,493; June 6.
Fiber, Machine for making wood. H. W. Merrill. No. 1,431,319; Oct. 10.
Fiber of cotton, Carding or straightening the. D. E. Molloy. No. 1,427,077; Aug. 22.
Fiber-press dies, Cleaning. G. J. Manson. No. 1,413,178; Apr. 18.
Fiber-press dies, Retractor and sprinkler for. G. J. Manson. No. 1,413,179; Apr. 18.
Fiber saver. A. Dežela. No. 1,423,199; July 18.
Fiber-separating device. J. C. Garner. Nos. 1,414,508-9; May 2.
Fiber-treating machine. H. H. Waller. No. 1,407,364; Feb. 21.
Fiber-treating machines such as gins, Breast mechanism for. A. A. Vardell. No. 1,426,688; Aug. 22.
Fibers active, Rendering animal and vegetable. J. Korselt. No. 1,426,298; Aug. 15.
Fibers, Condenser for textile. J. Dexter. No. 1,416,339; May 16.
Fibers, fabrics, etc., Method and device for bleaching textile. R. Mohr. No. 1,404,467; Jan. 24.
Fibers for use in the textile and paper industries, Disintegrating vegetable. C. Moriondi. No. 1,410,069; Mar. 21.
Fibers, Friction roll for spinning and drawing textile. E. J. Guay. No. 1,436,956; Nov. 28.

Alphabetical list of inventions—Continued.

- Fibers from the injurious effect of alkaline liquids, Protecting animal. P. Goldberg, P. Onnertz, and A. Peters. No. 1,419,497; June 13.
- Fibers, Machine for combing textile. R. Schleifer. No. 1,425,059; Aug. 8.
- Fibers, yarns, fabrics, Apparatus for washing and treating. F. L. Bartelt. No. 1,409,271; Mar. 14.
- Fibrous composition and manufacture thereof, Colored. A. R. Lukens. No. 1,430,392; Sept. 26.
- Fibrous compositions, Treating saturated. L. Kirschbraun. No. 1,417,840; May 30.
- Fibrous material and product thereof, Treating. E. Hopkinson. No. 1,411,786; Apr. 4.
- Fibrous material, Apparatus for treating. F. B. Stratford. No. 1,436,735; Nov. 28.
- Fibrous material, Container for. M. Silverman. No. 1,415,722; May 9.
- Fibrous material such as pasteboard, Carton formed of. F. N. List. No. 1,408,752; Mar. 7.
- Fibrous materials, Baling. W. H. Camp. No. 1,413,456; Apr. 18.
- Fibrous materials, Method and apparatus for testing. G. L. Schnable and F. F. Abbott. No. 1,436,323; Nov. 21.
- Fibrous materials, Resurfacing. R. L. Smith. No. 1,402,976; Jan. 10.
- Fibrous materials, Treating. D. E. De Lape. No. 1,417,889; May 30.
- Fibrous materials, Treatment of. D. McGill. No. 1,421,703; July 4.
- Fibrous-plant-decorating machine. F. O'Neill, Jr. No. 1,423,357; July 18.
- Fibrous sheet material, Reducing. M. F. Williams. No. 1,417,961; May 30.
- Fibrous stock, Machine for shredding and washing. J. E. Lappen. No. 1,413,597; Apr. 25.
- Field windings, Forming. C. G. Schulz and A. J. Croll. No. 1,406,092; Feb. 7.
- Fig product. J. C. Forkner. No. 1,433,503; Oct. 24.
- Figs, Treating dried. E. Newby. No. 1,434,837; Nov. 7.
- Figured surfaces, Art of and apparatus for making. F. H. Norton. No. 1,410,591; Mar. 28.
- Filament composed of basalt. P. Dhé. No. 1,438,428; Dec. 12.
- Filamentary material, Method and means for forming and winding. W. G. Houskeeper. No. 1,435,301; Nov. 14.
- Filaments and the like, Manufacture of artificial. W. P. Dreaper. No. 1,437,341; Nov. 28.
- Filaments, Process and apparatus for bending. A. Lederer. No. 1,419,153; June 13.
- File. O. A. Smith and G. J. Leber. No. 1,405,024; Jan. 31.
- File and knife, Combined. C. M. Fleece. No. 1,402,061; Jan. 3.
- File case. W. K. Spaulding. No. 1,411,527; Apr. 4.
- File, Disk-record. R. J. Miller. No. 1,412,537; Apr. 11.
- File envelope. R. J. Weinacht. No. 1,438,152; Dec. 5.
- File follower. E. G. Lehman. No. 1,438,385; Dec. 12.
- File handle and jointer, Combination. A. H. Adolph. No. 1,404,507; Jan. 24.
- File, Letter. F. M. Kilfoyle. No. 1,427,397; Aug. 29.
- File, Manicure. P. Hartley. No. 1,430,646; Oct. 3.
- File, Map. G. H. Barnhart. No. 1,416,661; May 16.
- File-milling cutter. H. R. Slater. No. 1,433,306; Oct. 24.
- File or article holder, Bill. O. K. Boyett. No. 1,407,720; Feb. 28.
- File or index equipment. J. T. Quigley. No. 1,413,778; Apr. 25.
- File or rack, Appointment. Z. Auerbach. No. 1,414,721; May 2.
- File or register, Letter. O. Stavenhagen. No. 1,414,758; May 2.
- File or registrar, Letter. O. Stavenhagen. No. 1,414,757; May 2.
- File rack. E. Pearl. No. 1,415,110; May 9.
- File, Rasp. A. Rodow. No. 1,418,974; June 6.
- File, Stick. J. H. Milling. No. 1,438,849; Dec. 12.
- File, Storage. S. C. Huffman. No. 1,423,936; July 25.
- Filer, Metal-bur. L. A. Lambert. No. 1,439,370; Dec. 19.
- Files and the like, Binding plate for office letter. F. Le Roy-Tracy. No. 1,428,172; Sept. 5.
- Files, Back for loose-leaf. C. F. McBee. No. 1,405,602; Feb. 7.
- Files, Hand grip for. J. L. Osgood. No. 1,415,948; May 16.
- Filing and indexing equipment. J. T. Quigley. Nos. 1,433,846-7; Oct. 31.
- Filing appliance. I. Wagemaker. No. 1,430,043; Sept. 26.
- Filing apparatus. L. C. Ridge. No. 1,406,227; Feb. 14.
- Filing binder and binder clip. J. Horwitz. No. 1,431,306; Oct. 10.
- Filing desk, Card. C. G. Hobart. No. 1,427,957; Sept. 5.
- Filing device. C. S. Buchanan. No. 1,436,572; Nov. 21.
- Filing device. E. G. Day. No. 1,411,959; Apr. 4.
- Filing device. G. D. Harrah. Nos. 1,416,287-9; May 16.
- Filing device. R. McKnight. No. 1,421,515; July 4.
- Filing device. A. Paulson. No. 1,402,439; Jan. 3.
- Filing device, Loose-leaf. E. H. Berry. No. 1,403,834; Jan. 17.
- Filing equipment. J. T. Quigley. No. 1,433,848; Oct. 31.
- Filing machine. E. Reichenbaum. No. 1,412,217; Apr. 11.
- Filing machine. A. Salata. No. 1,411,936; Apr. 4.
- Filing machine, Automatic. V. A. Boker. No. 1,412,915; Apr. 18.
- Filing machine, Saw. J. A. Carron. No. 1,435,954; Nov. 21.
- Filing mechanism, Saw. J. Reif. No. 1,407,168; Feb. 21.
- Filing system, Follow-up. S. W. McKee. No. 1,419,394; June 13.
- Filing tray, Interchangeable. H. W. Ehler. No. 1,409,160; Mar. 14.
- Filing tray or drawer. C. C. Carpenter. No. 1,424,080; July 25.
- Filing units, Device for securing cards or labels on. F. J. Kline. No. 1,434,125; Oct. 31.
- Filing device. R. B. Partridge. No. 1,427,013; Aug. 22.
- Filing device and indicator. H. Custer. No. 1,420,624; June 27.
- Filing machine. C. J. Clear. No. 1,427,265; Aug. 29.
- Filing machine, Hand-pack. C. S. Bucklin. No. 1,433,672; Oct. 31.
- Filing machines, Air-vent cleaner for. J. F. Haller. No. 1,425,960; Aug. 15.
- Filing machines, Receptacle support for. W. M. Fowler. No. 1,430,973; Oct. 3.
- Filing mechanism. A. Gronlund. No. 1,410,097; Mar. 21.
- Filing station, Portable. W. Myles. No. 1,403,911; Jan. 17.
- Film and composition for making the same, Base for anti-static. P. C. Seel. No. 1,415,059; May 9.
- Film and producing same, Advertising. T. H. Hunter. No. 1,426,567; Aug. 22.
- Film and producing same, Sensitive cellulosic. J. E. Brandenberger. No. 1,404,737; Jan. 31.
- Film-change alarm and rotating device, Automatic. V. C. Film clasp. G. J. Gilmore. No. 1,430,805; Oct. 3.
- Francis. No. 1,433,196; Oct. 24.
- Film cleaning and polishing apparatus. E. Schneider. No. 1,406,690; Feb. 14.
- Film cleaning and polishing machine. C. R. Carleton. No. 1,405,277; Jan. 31.
- Film-cleaning device. R. A. Riesterer. No. 1,418,830; June 6.
- Film clip. H. L. Durst. No. 1,408,448; Mar. 7.
- Film clip. W. T. Oxley. No. 1,415,189; May 9.
- Film-conveying apparatus. A. Price. No. 1,412,216; Apr. 11.
- Film cut-out. A. L. Atherton. No. 1,433,693; Oct. 31.
- Film cutter, Automatic electric. A. W. Miller and W. L. Conklin. No. 1,425,405; Aug. 8.
- Film-driving means. J. L. Roop. No. 1,437,152; Nov. 28.
- Film-drying appliance. W. A. Taylor. No. 1,407,961; Feb. 28.
- Film-drying drum, Portable. H. H. Horton. No. 1,411,098; Mar. 28.
- Film-drying nozzle. R. C. Hubbard. No. 1,407,543; Feb. 21.
- Film-feeding apparatus. J. G. Jones. No. 1,431,893; Oct. 10.
- Film-forming machine. J. G. Jones. No. 1,437,808; Dec. 5.
- Film gate. L. Horst. No. 1,437,895; Dec. 5.
- Film holder. H. Berger, Jr. No. 1,405,892; Feb. 7.
- Film holder. A. B. Bourne. No. 1,415,776; May 9.
- Film holder. W. S. Brackney. No. 1,422,029; July 4.
- Film holder. H. G. Ponting and G. W. Ford. No. 1,440,173; Dec. 26.
- Film holder. J. E. Rodriguez Serra. No. 1,422,785; July 11.
- Film illuminating and filing cabinet, Combined. H. H. Turner. No. 1,413,507; Apr. 18.
- Film magazine, Cut. W. F. Folmer. No. 1,431,908; Oct. 10.
- Film making, Composition of matter for use in. A. F. Sulzer. No. 1,437,828; Dec. 5.
- Film marker. H. O. N. Nordin. No. 1,411,370; Apr. 4.
- Film-numbering machine. J. Altschuler. No. 1,428,352; Sept. 5.
- Film printing machine. G. L. Chanier. No. 1,425,450; Aug. 8.
- Film reel. L. J. Doty. No. 1,409,533; Mar. 14.
- Film reel. W. F. Gammeter. No. 1,417,313; May 23.
- Film reel. G. Passavanti. No. 1,408,425; Feb. 28.
- Film reel. G. Passavanti. No. 1,429,692; Sept. 19.
- Film reels, Signal attachment for. N. Power. No. 1,407,083; Feb. 21.
- Film-splicing device. F. Kalmbach. No. 1,432,466; Oct. 17.
- Film-splicing machine. M. Metzger. No. 1,437,348; Nov. 28.
- Film splicer. F. C. Griswold. No. 1,413,269; Apr. 18.
- Film-testing machine. G. L. Chanier. No. 1,422,665; July 11.
- Film-treatment cage. A. G. Boxell. No. 1,424,873; Aug. 8.
- Film-winding device. W. Vollmann. No. 1,417,474; May 23.
- Film-winding mechanism. F. P. Judd. No. 1,411,106; Mar. 28.
- Films and compositions for making the same, Base for antistatic. P. C. Seel. No. 1,431,900; Oct. 10.
- Films and printing therefrom, Machine for making gelatine. A. H. Spaulding. No. 1,417,358; May 23.
- Films, Film holder for developing. H. F. Waite. No. 1,413,208; Apr. 18.
- Films, Interlocking device for avoiding double exposures and blank. A. H. Roikjer. No. 1,427,973; Sept. 5.

Alphabetical list of inventions—Continued.

- Films, Method of and apparatus for developing. G. C. Beidler. No. 1,414,769; May 2.
- Films, Preparing. N. S. Kocher. No. 1,437,810; Dec. 5.
- Films, Producing color. K. Wurga. No. 1,420,673; June 27.
- Films, threads, and filaments, Preparation and preservation of viscose solutions of cellulose for the production of. W. O. Mitscherling. No. 1,415,040; May 9.
- Films, Treating. W. R. Webb. No. 1,429,179; Sept. 12. 1,433,115; Oct. 24.
- Filter. F. B. Anderson. No. 1,403,369; Jan. 10.
- Filter. R. C. Campbell. No. 1,430,518; Sept. 26.
- Filter. A. M. Capro. No. 1,429,488; Sept. 19.
- Filter. J. G. Ellis. No. 1,433,357; Oct. 24.
- Filter. M. Elrod. No. 1,422,190; July 11.
- Filter. J. H. Fleetwood. No. 1,412,557; Apr. 11.
- Filter. W. E. Gallagher. No. 1,418,785; June 6.
- Filter. D. A. Jones and C. R. Martin. No. 1,421,948; July 4.
- Filter. J. S. Keithline. No. 1,430,234; Sept. 26.
- Filter. G. Kneuper. No. 1,439,706; Dec. 26.
- Filter. A. Jordahl. No. 1,426,196; Aug. 15.
- Filter. M. Kessler. No. 1,410,017; Mar. 21.
- Filter. G. Knock. No. 1,414,137; Apr. 25.
- Filter. F. L. McGahan. No. 1,432,351; Oct. 17.
- Filter. M. A. Menke. No. 1,434,905; Nov. 7.
- Filter. L. D. Mills. No. 1,433,966; Oct. 31.
- Filter. E. J. Sweetland. No. 1,432,134; Oct. 17.
- Filter. C. H. Torley. No. 1,408,785; Mar. 7.
- Filter agitator, Drum. E. S. Pettis. No. 1,410,221; Mar. 21.
- Filter, Air. C. E. and S. C. Dailey. No. 1,439,151; Dec. 19.
- Filter and filter press. G. C. Hurrell. No. 1,414,132; Apr. 25.
- Filter and hydraulic press, Combined. F. E. Stevenson. No. 1,404,490; Jan. 24.
- Filter and producing same. R. Zsigmondy and W. Bachmann. No. 1,421,341; June 27.
- Filter bags, Supporting frame for. S. L. Goldman. No. 1,435,637; Nov. 14.
- Filter-bottom construction. J. E. Williamson. No. 1,429,477; Sept. 19.
- Filter, Centrifugal. W. Mauss. No. 1,404,157; Jan. 17.
- Filter, Centrifugal. T. H. Parker, S. G. Gassaway, and J. W. Whitson. No. 1,410,264; Mar. 21.
- Filter, Centrifugal. T. H. Parker, S. G. Gassaway, and J. W. Whitson. No. 1,411,582; Apr. 4.
- Filter, Ferment. M. Klutsi. No. 1,412,818; Apr. 11.
- Filter for cane sirup. A. D. Stevens. No. 1,404,667; Jan. 24.
- Filter press. A. Burger. No. 1,409,281; Mar. 14.
- Filter press. R. D. Lucas. No. 1,415,461; May 9.
- Filter, Sand. N. M. Barron. No. 1,411,201; Mar. 28.
- Filter, Sand. L. E. Raimbert. No. 1,410,121; Mar. 7.
- Filter, Self-cleaning. C. F. Bennett. No. 1,433,254; Oct. 24.
- Filter, Vacuum. W. Mauss. No. 1,419,286; June 13.
- Filter, Vacuum-cleaned. C. W. Sirch. No. 1,408,228; Feb. 28.
- Filter, Water. M. L. Crandall. No. 1,430,950; Oct. 3.
- Filter, Water. H. Giessel. No. 1,433,714; Oct. 31.
- Filter, Wave. W. H. Martin. No. 1,434,555; Nov. 7.
- Filtering. B. W. Collins. No. 1,413,457; Apr. 18.
- Filtering and purifying device. A. Sellin. No. 1,405,873; Feb. 7.
- Filtering apparatus. L. Ewald. No. 1,408,279; Feb. 28.
- Filtering apparatus. A. L. Genter. No. 1,405,406; Feb. 7.
- Filtering apparatus. E. W. W. Keene. No. 1,429,913; Sept. 19.
- Filtering apparatus. R. E. Langston. No. 1,407,763; Feb. 28.
- Filtering apparatus. F. Morel and L. Tuloup. No. 1,431,411; Oct. 10.
- Filtering material. G. W. Matson. No. 1,411,975; Apr. 4.
- Filtering systems, etc., Sprinkler for. B. Wilkie. No. 1,409,268; Mar. 14.
- Filters, Cleansing. C. A. Brown. No. 1,406,340; Feb. 14.
- Filters, Scraper for rotary. J. S. Bates. No. 1,415,859; May 16.
- Filters, Shaking device for cleaning. W. F. L. Beth. No. 1,433,115; Oct. 24.
- Filtration apparatus. M. B. Tark. No. 1,418,687; June 6.
- Finder. W. A. Riddell. No. 1,437,817; Dec. 5.
- Finder. F. A. Wenman. No. 1,406,124; Feb. 7.
- Finder, Focusing. M. Unger. No. 1,434,933; Nov. 7.
- Finger guard in writing. G. Segesser. No. 1,402,319; Jan. 3.
- Finger-nail buffer. H. E. Davis. No. 1,416,619; May 16.
- Finger-nail trimmer. C. S. and H. P. Carter. No. 1,436,010; Nov. 21.
- Finger piece. J. S. Popper. No. 1,427,017; Aug. 22.
- Finger-print composition. C. F. Glass. No. 1,429,338; Sept. 19.
- Finger-print stand. E. L. Burwell. No. 1,404,432; Jan. 24.
- Finger prints and their classification, Device for studying. G. Williams. No. 1,425,157; Aug. 8.
- Finger ring. E. C. Blaicher. No. 1,422,819; July 18.
- Finger ring. D. P. Fontana. No. 1,409,138; Mar. 7.
- Finger ring, Expandable. M. H. Ballard. No. 1,434,981; Nov. 7.
- Finger-tip protector. J. A. Boehringer. No. 1,408,070; Feb. 28.
- Finger-tip-tapering device. B. R. Strahl. No. 1,404,906; Jan. 31.
- Finger-training device. W. Schmitt-Marcel. No. 1,423,033; July 13.
- Finishing and like machines, Roll for. T. Caddell. No. 1,435,583; Nov. 14.
- Fire alarm. E. H. Field. No. 1,430,067; Sept. 26.
- Fire alarm. T. Halagarda. No. 1,435,894; Nov. 14.
- Fire alarm. M. D. S. Riccio. No. 1,425,287; Aug. 8.
- Fire-alarm attachment. J. Schneiderman. No. 1,425,797; Aug. 15.
- Fire alarm, Automatic. C. A. Anderson. No. 1,405,251; Jan. 31.
- Fire alarm, Automatic. F. A. Swan. (Reissue.) No. 1,5436; Aug. 22.
- Fire-alarm box. R. Zakrzewski and K. Sulek. No. 1,429,668; Sept. 19.
- Fire-alarm system and controlling means therefor. L. C. Miller. No. 1,435,323; Nov. 14.
- Fire-alarm system, Magnet. A. Wellert. No. 1,424,963; Aug. 8.
- Fire and emergency alarm, Combined. A. A. Taylor and H. J. Schatz. No. 1,433,756; Oct. 31.
- Fire apparatus. J. J. Kaiser. No. 1,410,190; Mar. 21.
- Firearm. E. B. Andes. No. 1,415,976; May 16.
- Firearm. G. H. Ball. No. 1,418,862; June 6.
- Firearm. J. M. Browning. No. 1,424,553; Aug. 1.
- Firearm. F. Feederle. No. 1,413,109; Apr. 18.
- Firearm. G. Hammond. No. 1,432,182; Oct. 17.
- Firearm. B. B. Holmes. No. 1,416,828; May 23.
- Firearm. I. M. Lewis. No. 1,430,661; Oct. 3.
- Firearm. O. V. Payne. No. 1,424,773; Aug. 8.
- Firearm. J. D. Pedersen. Nos. 1,410,265-70; Mar. 21.
- Firearm. J. D. Pedersen. No. 1,423,358; July 18.
- Firearm. J. D. Pedersen. No. 1,429,621; Sept. 19.
- Firearm. A. B. Pratt. No. 1,433,514; Oct. 24.
- Firearm. C. G. Sweblius. Nos. 1,422,237-8; July 11.
- Firearm attachment. D. Wetmore. No. 1,427,042; Aug. 22.
- Firearm, Automatic. A. Bardelli. No. 1,425,627; Aug. 15.
- Firearm, Automatic. K. A. Bräuning. No. 1,411,473; Apr. 4.
- Firearm, Automatic. J. J. Reifgraber. No. 1,418,021; May 30.
- Firearm, Automatic. C. G. Sweblius. No. 1,402,459; Jan. 3.
- Firearm, Takedown. C. G. Sweblius. No. 1,412,298; Apr. 11.
- Firearms, Aim indicating apparatus for. W. Paterson and G. A. Rannie. No. 1,432,254; Oct. 17.
- Firearms, Box magazine for. F. F. Burton. No. 1,407,633; Feb. 21.
- Firearms, Buffer stop for. J. C. White. No. 1,410,436; Mar. 21.
- Firearms, Extractor mechanism for. C. A. Nelson. No. 1,435,327; Nov. 14.
- Firearms, Firing mechanism for. G. Hammond. No. 1,410,248; Mar. 21.
- Firearms, Manually-actuated action for. C. A. Braunger. No. 1,440,332; Dec. 26.
- Firearms, Operating. I. N. Lewis. No. 1,430,660; Oct. 3.
- Firearms, Rear sight for. F. F. Burton. No. 1,438,694; Dec. 12.
- Firearms, Sight for. F. W. Gordon. No. 1,405,834; Feb. 7.
- Firearms, Sight for. A. Perrin. No. 1,428,115; Sept. 5.
- Firearms, Trigger mechanism for automatic. I. N. Lewis. No. 1,439,903; Dec. 26.
- Fire at elevated targets, Sighting apparatus for ordnance adapted to. O. Graubeding. No. 1,411,721; Apr. 4.
- Fireback. E. L. Barton. No. 1,431,209; Oct. 10.
- Fire bar. E. Ruffo and V. Calderaro. No. 1,433,480; Oct. 24.
- Fire block, Metal. B. E. Hamilton. No. 1,412,736; Apr. 11.
- Fire box. A. Burkart. No. 1,432,835; Oct. 24.
- Fire box. F. L. McGaban. Nos. 1,423,346-7; July 18.
- Fire-box structure. J. P. Neff. No. 1,426,404; Aug. 22.
- Fire boxes, Fire pan construction for oil-burning. R. J. Himmelright and A. H. Willett. No. 1,406,732; Feb. 14.
- Fire boxes, Suction means for feeding powdered fuel to. F. L. McGaban. No. 1,438,539; Dec. 12.
- Fire-brick arch and brick therefor. A. H. Willett. No. 1,433,583; Oct. 31.
- Firecracker holder. M. Keeton. No. 1,401,985; Jan. 3.
- Fire door. A. J. Boehm. No. 1,419,807; June 13.
- Fire door. F. W. Dean. No. 1,408,867; Mar. 7.
- Fire door. R. W. Kaucher and J. W. Barr. No. 1,425,973; Aug. 15.
- Fire door or shutter. A. S. Barrows. No. 1,421,146; June 27.
- Fire door, safety gate, and the like. H. Backman. No. 1,415,977; May 16.
- Fire door, Ventilated. W. B. Gervais. No. 1,427,282; Aug. 29.
- Fire doors, Automatic releasing mechanism for. E. A. Lowe. No. 1,404,534; Jan. 24.
- Fire engine and rail coach or truck, Motor. H. H. Carter. No. 1,405,278; Jan. 31.
- Fire-engine pumps, Dual water control for. A. P. House. No. 1,427,899; Sept. 5.

- Fire escape. C. C. Abbott and W. E. and B. L. Bassett. No. 1,419,532; June 13.
- Fire escape. C. C. Abbott, W. E., B. L., and I. L. Bassett. No. 1,435,366; Nov. 14.
- Fire escape. P. F. Jensen. No. 1,431,001; Oct. 3.
- Fire escape. R. Kalkusch. No. 1,411,438; Apr. 4.
- Fire escape. P. A. Stephens. No. 1,437,920; Dec. 5.
- Fire escape, Automatic. H. Vieregg. No. 1,438,880; Dec. 12.
- Fire escapes, Extensible ladder for. R. Glasser. No. 1,423,104; July 18.
- Fire extinguisher. F. C. Bargar. No. 1,422,406; July 11.
- Fire extinguisher. A. L. Johnson. No. 1,409,725; Mar. 14.
- Fire extinguisher. H. S. Mitchell. No. 1,421,979; July 4.
- Fire extinguisher. G. T. Pearsons. No. 1,403,191; Jan. 10.
- Fire extinguisher. G. T. Pearsons. No. 1,417,559; May 30.
- Fire extinguisher. G. T. Pearsons. Nos. 1,431,179-80; Oct. 10.
- Fire extinguisher. G. T. Pearsons. No. 1,439,709; Dec. 26.
- Fire extinguisher. E. J. Smith and H. V. Glos. No. 1,408,541; Mar. 7.
- Fire extinguisher, Automatic. D. M. Bett. No. 1,411,903; Apr. 4.
- Fire-extinguisher bracket. E. W. Hatch. No. 1,437,303; Nov. 28.
- Fire extinguisher, Hand. W. H. Tibbals. No. 1,425,297; Aug. 8.
- Fire extinguisher, Portable. G. Schworetzky. No. 1,415,717; May 9.
- Fire-extinguisher systems, Valve for. C. D. Allan. No. 1,436,932; Nov. 28.
- Fire extinguishers, Antifreezing charge for. F. Cremer. No. 1,410,735; Mar. 28.
- Fire-extinguishing agent. G. E. Ferguson and L. E. Eckelmann. No. 1,421,436; July 4.
- Fire extinguishing apparatus. O. R. Erwin and C. B. Flory. (Reissue.) No. 15,355; May 16.
- Fire-extinguishing apparatus. O. R. Erwin and C. B. Flory. No. 1,426,368; Aug. 22.
- Fire-extinguishing apparatus. O. R. Erwin. No. 1,437,097; Nov. 28.
- Fire-extinguishing apparatus. O. R. Erwin. No. 1,438,430; Dec. 12.
- Fire-extinguishing apparatus. A. C. Rowley. No. 1,438,864; Dec. 12.
- Fire-extinguishing apparatus. G. T. Pearsons. No. 1,431,178; Oct. 10.
- Fire-extinguishing composition. A. Biddle. No. 1,428,207; Sept. 5.
- Fire-extinguishing composition. E. A. Louder. No. 1,430,745; Oct. 3.
- Fire-extinguishing composition. M. R. Resanovich. No. 1,411,901; Apr. 4.
- Fire-extinguishing composition and preparing same. J. B. Miller. No. 1,421,527; July 4.
- Fire-extinguishing liquid and using same. S. H. Hamilton. No. 1,431,789; Oct. 10.
- Fire-extinguishing material. J. B. Ellery and A. Drumtra. No. 1,435,957; Nov. 21.
- Fire-extinguishing solution. L. E. Eckelmann. No. 1,421,428; July 4.
- Fire-extinguishing system. F. A. Epps. No. 1,421,433; July 4.
- Fire-extinguishing system. D. W. Patterson. No. 1,403,621; Jan. 17.
- Fire-fighting apparatus. J. D. Wolf. No. 1,418,505; June 6.
- Fire-hose bridge. J. S. Kingston. No. 1,435,072; Nov. 7.
- Fire indicator. O. D. Purington. No. 1,415,390; May 9.
- Fire-kindling device. C. M. Mayfield. No. 1,411,118; Mar. 28.
- Fireplace. E. Brammer. No. 1,419,810; June 13.
- Fireplace. J. Beckett. No. 1,429,184; Sept. 12.
- Fireplace. G. T. Brander. No. 1,434,033; Oct. 31.
- Fireplace. M. M. Deaderick. No. 1,411,609; Apr. 4.
- Fireplace. J. E. Langford. No. 1,406,037; Feb. 7.
- Fireplace. J. O. Neikirk. No. 1,410,341; Mar. 21.
- Fireplace. O. Taylor. No. 1,411,132; Mar. 28.
- Fireplace damper. J. M. Goodwin. No. 1,413,472; Apr. 18.
- Fireplace damper. J. J. Kohler. No. 1,432,189; Oct. 17.
- Fireplace heater. J. M. Aizpuru. No. 1,433,520; Oct. 31.
- Fireplace heater. W. D. Harper. No. 1,432,551; Oct. 17.
- Fireplace water back. G. Gabet. No. 1,426,976; Aug. 22.
- Fireplace water back. J. M. Goodwin. No. 1,430,982; Oct. 3.
- Fireplaces, Device for increasing combustion in. R. E. Ackroyd. No. 1,430,781; Oct. 3.
- Fire plugs, Valve attachment for. C. F. Schultis. No. 1,402,182; Jan. 3.
- Fire pot. F. L. Lindhorst. No. 1,428,790; Sept. 12.
- Fire pot. G. R. Pratt. No. 1,412,133; Apr. 11.
- Fireproof accounting cabinet. V. G. Moss. No. 1,409,756; Mar. 14.
- Fireproof building fabric and making the same, Composite. W. R. Seigle. No. 1,436,914; Nov. 28.
- Fireproof building material, Making. A. M. Mitchell. No. 1,408,760; Mar. 7.
- Fireproof Christmas wreath, Electrically-illuminated. J. Andresen. No. 1,436,003; Nov. 21.
- Fireproof door. W. C. Broughton. No. 1,416,943; May 23.
- Fireproof door. A. V. Kelly. No. 1,408,302; Feb. 28.
- Fireproof door. E. R. Leonard. No. 1,402,874; Jan. 10.
- Fireproof furniture. E. T. Holmberg. No. 1,412,784; Apr. 11.
- Fireproof lock box. C. G. Bennet. No. 1,421,150; June 27.
- Fireproof, Method and composition for rendering materials. F. C. Wheeler. No. 1,414,609; May 2.
- Fireproof stone. G. Yamanouchi. No. 1,409,329; Mar. 14.
- Fireproof structures, Lock for. E. Ohnstrand. No. 1,440,169; Dec. 26.
- Fireproof wall. W. Geraerds. No. 1,427,372; Aug. 29.
- Fireproofing and heat-conservation purposes, Thermal insulator for. F. Ottman. No. 1,435,416; Nov. 14.
- Fire-protection apparatus. H. J. M. Howard. No. 1,413,275; Apr. 18.
- Fire-resistant composition. G. S. Pease. No. 1,429,451; Sept. 19.
- Fire-resisting composition. C. E. Welles. No. 1,436,618; Nov. 21.
- Fire-resisting structure. C. F. Meilink. No. 1,428,340; Sept. 5.
- Fire screen. J. E. Sanders. No. 1,425,341; Aug. 8.
- Fire-screen joint, Sectional. J. P. Smith. No. 1,413,364; Apr. 18.
- Fires, Apparatus for extinguishing. J. B. and O. R. Erwin. No. 1,403,596; Jan. 17.
- Fires, Means for preventing oil-tank. R. E. Johnston. No. 1,417,605; May 30.
- Fire stop. R. M. Dyar. No. 1,428,881; Sept. 12.
- Fire stop. R. M. Dyar. No. 1,433,606; Oct. 31.
- Firewood-cutting machine. F. W. Casey. No. 1,438,943; Dec. 19.
- First-aid outfit. W. A. Reed. No. 1,437,359; Nov. 28.
- First-aid packet. W. H. Sharp. No. 1,434,566; Nov. 7.
- Fish and the like, Cooling and freezing of. J. J. Pique. No. 1,431,328; Oct. 10.
- Fish bait, Artificial. W. Schmid. No. 1,417,574; May 30.
- Fish box. W. T. Pettet. No. 1,405,865; Feb. 7.
- Fish-catching device. G. P. Riza. No. 1,405,740; Feb. 7.
- Fish, Container for transporting live. E. C. Fearnow. No. 1,419,549; June 13.
- Fish cutting and cleaning machine. H. D. Severance. No. 1,403,269; Jan. 10.
- Fish-dressing device. D. E. Bowe. No. 1,438,091; Dec. 5.
- Fish, fish fry, and fish eggs, Container for transporting and storing live. E. C. Fearnow. No. 1,435,457; Nov. 14.
- Fish gaff. D. D. Smith. No. 1,413,139; Apr. 18.
- Fish gutting and cleaning machine. J. Kellington. No. 1,430,816; Oct. 3.
- Fish holder. H. Matthews and R. J. Seator. No. 1,418,595; June 6.
- Fishhook. J. O. Aspelin. No. 1,417,482; May 30.
- Fishhook. S. Christensen. No. 1,430,626; Oct. 3.
- Fisherman's bob. J. A. Frost. No. 1,434,335; Oct. 31.
- Fishing appliance. W. J. Lloyd. No. 1,410,817; Mar. 28.
- Fishing bait, Artificial. E. H. Peckinbaugh. No. 1,435,177; Nov. 14.
- Fishing bait, Weed attachment for. W. C. Brown. No. 1,419,540; June 13.
- Fishing chair. J. C. McCoy. No. 1,406,571; Feb. 14.
- Fishing hook. R. W. Bailey. No. 1,419,903; June 13.
- Fishing-line float. A. P. Lower. No. 1,418,944; June 6.
- Fishing-line reel. C. Hertenstein. No. 1,420,428; June 20.
- Fishing-line reel. W. E. Hodges and C. F. Larzelere. No. 1,407,537; Feb. 21.
- Fishing-lines, Attachment for. J. M. Bley, sr. No. 1,438,476; Dec. 12.
- Fish-mouth opener and holder. H. C. Schwartz. No. 1,433,041; Oct. 24.
- Fishing net. J. K. Dukas. No. 1,430,221; Sept. 26.
- Fishing net. W. F. Massey. No. 1,439,908; Dec. 26.
- Fishing reel. E. A. Erickson. No. 1,432,988; Oct. 24.
- Fishing reel. B. M. W. Hanson. No. 1,406,005; Feb. 7.
- Fishing reel. G. J. Oitsch. No. 1,426,594; Aug. 22.
- Fishing reel. C. S. Parks. No. 1,434,626; Nov. 7.
- Fishing reel. H. E. Rawson. No. 1,430,753; Oct. 3.
- Fishing reel. S. G. Russell. No. 1,417,632; May 30.
- Fishing reel. S. G. Russell. No. 1,425,141; Aug. 8.
- Fishing reel. S. G. Russell. No. 1,439,762; Dec. 26.
- Fishing reel. C. Teutsch. No. 1,439,926; Dec. 26.
- Fishing reel. G. W. Upton. No. 1,402,811; Jan. 10.
- Fishing reel. J. T. Welch. No. 1,434,976; Nov. 7.
- Fishing reel. J. A. Wherry. No. 1,413,816; Apr. 25.
- Fishing-reel oil-cap protector. S. T. Thorpe. No. 1,405,729; Feb. 7.
- Fishing reels, Antibacklash attachment for. W. L. Adams. No. 1,420,804; June 27.
- Fishing rod. J. C. Caldwell. No. 1,415,310; May 9.
- Fishing rod. E. J. Condeley. No. 1,409,282; Mar. 14.
- Fishing rod. J. Madaj. No. 1,406,268; Feb. 14.
- Fishing-rod holder. G. R. Cowdery. No. 1,410,798; Mar. 28.
- Fishing-rod support. A. J. Schumacher. No. 1,435,085; Nov. 7.
- Fishing-snell carrier. C. B. Trumble. No. 1,416,142; May 16.
- Fishing tackle. Baron E. Coppens d'Eeckenbrugge. No. 1,405,300; Jan. 31.

Alphabetical list of inventions—Continued.

- Fishing tool. D. A. Ball. No. 1,416,930; May 23.
 Fishing tool. A. H. Brandon. No. 1,439,687; Dec. 26.
 Fishing tool. H. C. Cooper. No. 1,415,995; May 16.
 Fishing tool. W. O. Kimmell. No. 1,439,244; Dec. 19.
 Fishing tool. R. V. McMullen. No. 1,417,616; May 30.
 Fishing tool. V. W. Moyer. No. 1,407,878; Feb. 28.
 Fishing tool. G. A. Robinson. No. 1,409,197; Mar. 14.
 Fishing tool. H. I. Smith. No. 1,402,677; Jan. 3.
 Fishing tool. C. Strand. No. 1,418,212; May 30.
 Fishing tool. R. R. Winger. No. 1,411,546; Apr. 4.
 Fishing tool for wells, Magnetic. A. H. Brandon. No. 1,439,686; Dec. 26.
 Fishing tools, Socket and bowl for. E. U. Keller. No. 1,407,867; Feb. 28.
 Fishline reel. W. Schmid. No. 1,417,633; May 30.
 Fishline reel. W. Schmid. No. 1,421,839; July 4.
 Fish lines, Device for taking in, holding, and paying out. H. Nelson. No. 1,405,546; Feb. 7.
 Fish lure. G. T. Buddle. No. 1,418,229; May 30.
 Fish lure. C. M. Rodgers and A. W. Wenger. No. 1,421,991; July 4.
 Fish lures, Controller for. C. M. Rodgers and A. W. Wenger. No. 1,423,025; July 18.
 Fish, Machine for separating flesh from the skin and bones of. J. J. Barry. No. 1,415,296; May 9.
 Fish meal, Apparatus for producing. E. T. Meakin. No. 1,421,283; June 27.
 Fish net. G. T. Warren, Sr. No. 1,420,396; June 20.
 Fish of the shark family and from offal of these and other fish, Recovering products from whole. R. M. Thompson. No. 1,413,200; Apr. 18.
 Fishplate. G. W. Hanner. No. 1,439,413; Dec. 19.
 Fish-positioning machine. W. F. Butler. No. 1,416,687; May 23.
 Fish scaler. R. C. Hartleb. No. 1,424,722; Aug. 1.
 Fish screen. J. L. Walker. No. 1,420,508; June 20.
 Fish-splitting machine. A. Webb. W. A. Belton, and C. P. B. Reingach. No. 1,402,982; Jan. 10.
 Fish stringer. D. Fiske. No. 1,423,203; July 18.
 Fish stringer. T. B. McNiece. No. 1,417,759; May 30.
 Fish-stringing device. W. F. C. Reimers. No. 1,407,221; Feb. 21.
 Fishtail bit. W. R. Gardner. No. 1,428,774; Sept. 12.
 Fish trap. S. fu A. Bitonti. No. 1,412,649; Apr. 11.
 Fish trap. A. Ftyklo. No. 1,407,744; Feb. 28.
 Fish trap. H. Podolsky. No. 1,427,321; Aug. 29.
 Fish, Treating. A. C. Eaton and W. R. Cameron. No. 1,404,352; Jan. 24.
 Fixture holder or mounting, Combination shade and drape. C. L. Fitchet. No. 1,435,830; Nov. 14.
 Fixture stem, Universal. C. H. Rocky. No. 1,410,602; Mar. 28.
 Flag holder. C. Selisnik. No. 1,427,646; Aug. 29.
 Flag holder and classification lamp. O. F. Kloetzer. No. 1,406,034; Feb. 7.
 Flag holder, Cross-. H. W. Leutner. No. 1,404,777; Jan. 31.
 Flag ornament. H. Scharek. No. 1,439,644; Dec. 19.
 Flagpole. L. P. Bolander. No. 1,438,166; Dec. 12.
 Flag retainer. H. A. Switzer. No. 1,435,993; Nov. 21.
 Flagstaff. C. W. Allman. No. 1,416,669; May 23.
 Flaking device. H. E. Gale and W. D. Banes. No. 1,410,008; Mar. 21.
 Flame and cutting tools, Plate for resisting. R. S. Edmondson. No. 1,423,652; July 25.
 Flame spreader. E. F. Drake. No. 1,427,096; Aug. 29.
 Flange curling and counting machine. F. Rudolphi. No. 1,440,179; Dec. 26.
 Flange joints, Folding insulation for. C. G. Sodergreen. No. 1,411,386; Apr. 4.
 Flange wrench. A. L. Dennis. No. 1,406,824; Feb. 14.
 Flange wrench. R. B. Foster. No. 1,425,845; Aug. 15.
 Flange wrench. J. P. Slattery. No. 1,413,362; Apr. 18.
 Flanged article. E. C. George. (Reissue.) No. 15,429; Aug. 8.
 Flanged products, Reenforced flange for. E. J. Fowler and C. Kellie. No. 1,407,791; Feb. 28.
 Flanging machine. R. O. Hendrickson and K. E. Moree. No. 1,420,427; June 20.
 Flanging machine. H. McCabe. No. 1,408,106; Feb. 28.
 Flash hider and recoil absorber. J. S. Butler and E. Fowler. No. 1,415,919; May 16.
 Flashing and counterflashing for roofs, etc. H. C. Maxwell. No. 1,419,287; June 13.
 Flashing receptacle and brace. G. E. Swenson. No. 1,427,921; Sept. 5.
 Flash light. R. M. Eaton. No. 1,438,586; Dec. 12.
 Flash light. F. Evans. Nos. 1,411,613-16; Apr. 4.
 Flash light. F. Evans. No. 1,436,798; Nov. 28.
 Flash light. F. L. Ferris. No. 1,439,408; Dec. 19.
 Flash light. C. C. Keller. No. 1,438,531; Dec. 12.
 Flash light. A. S. Lyhne. No. 1,408,527; Mar. 7.
 Flash light. L. C. Matson. No. 1,421,093; June 27.
 Flash light. L. A. Miller. No. 1,421,528; July 4.
 Flash light. F. M. Rosenfeld. No. 1,405,630; Feb. 7.
 Flash light. C. W. Swingle. No. 1,422,239; July 11.
 Flash light. J. Vince. No. 1,404,077; Jan. 17.
 Flash-light apparatus. E. L. Johnson. No. 1,439,821; Dec. 26.
 Flash light, Electric. E. Ludescher. No. 1,410,335; Mar. 21.
 Flash-light gun. E. L. Johnson. No. 1,434,438; Nov. 7.
 Flash-light holster. J. E. Wright. No. 1,416,153; May 16.
 Flash light or battery hand lamp. A. W. Wellington. No. 1,420,261; Sept. 19.
 Flash light, Pocket. A. S. Lyhne. No. 1,408,526; Mar. 7.
 Flash-light stand. T. A. Williams. No. 1,403,725; Jan. 17.
 Flash lights, Circuit controller for. B. Benedict. No. 1,406,964; Feb. 21.
 Flash lights, Portable adjustable holder for. E. G. Quarstroum. No. 1,403,707; Jan. 17.
 Flash-proofing fabrics. W. K. Lewis and H. C. Weber. No. 1,434,549; Nov. 7.
 Flask: Sec—
 Dental flask.
 Flask. F. E. Roach. No. 1,434,408; Nov. 7.
 Flask-charging apparatus. F. J. Stephenson. No. 1,437,382; Nov. 28.
 Flask fitting. E. J. Byerlein. No. 1,438,633; Dec. 12.
 Flasks, Clamping device for molding. H. Urlass. No. 1,435,189; Nov. 14.
 Flasks, Eccentric hinge for molding. J. Fisher. No. 1,416,629; May 16.
 Flasks, Hinge for molding. J. Fisher. No. 1,416,630; May 16.
 Flasks, Leveling device for molders'. W. Lewis. No. 1,412,882; Apr. 18.
 Flatiron, Electric. E. S. Avery and O. O. Fusch. No. 1,433,061; Oct. 24.
 Flatiron, Electric. W. A. Morgan. No. 1,430,830; Oct. 3.
 Flatiron, Electric. E. Muntwyler. No. 1,402,245; Jan. 3.
 Flatiron, Electrically heated. E. Stranszky. No. 1,417,421; May 23.
 Flatiron switch, Electric-. C. W. Mabey. No. 1,410,262; Mar. 21.
 Flavoring extract and preparing same. J. B. Albach. No. 1,403,473; Jan. 17.
 Flax-breaking machines, Adjusting mechanism for the breaking rollers of. I. Etrich. No. 1,405,989; Feb. 7.
 Flax-deseeding machine. H. L. Larson. No. 1,408,896; Mar. 7.
 Flax fiber, Process for recovering. R. E. Rindfusz and V. Voorhees. No. 1,430,115; Sept. 26.
 Flax, Machine for deseeding. G. Michot. No. 1,436,185; Nov. 21.
 Flax-pulling mechanism. J. Magill. No. 1,403,262; Jan. 10.
 Flax scutching and dressing apparatus. W. McEwen and W. Robinson. No. 1,408,460; Mar. 7.
 Flexible articles, Method and apparatus for manipulating. J. R. Gammett. No. 1,421,450; July 4.
 Flexible chain. N. C. Levy. No. 1,426,885; Aug. 22.
 Flexible coupling. I. Hupp. No. 1,431,401; Oct. 10.
 Flexible coupling. M. R. Karge. No. 1,429,147; Sept. 12.
 Flexible coupling. R. A. Smith and J. J. Serrell. No. 1,403,271; Jan. 10.
 Flexible coupling. C. W. Spicer. No. 1,416,134; May 16.
 Flexible coupling. C. W. Spicer. No. 1,438,273; Dec. 12.
 Flexible coupling. G. L. Tarbox. No. 1,425,616; Aug. 15.
 Flexible coupling. M. C. Travis. No. 1,402,688; Jan. 3.
 Flexible coupling. G. A. Ungar. No. 1,406,112; Feb. 7.
 Flexible coupling. G. A. Ungar. No. 1,422,638; July 11.
 Flexible operating mechanism. P. L. Billingsley. No. 1,424,148; Aug. 1.
 Flexible power coupling. R. A. Smith and J. J. Serrell. No. 1,403,272; Jan. 10.
 Flexible wrench. H. Austin. No. 1,431,208; Oct. 10.
 Flier. W. O. Aldrich. No. 1,426,443; Aug. 22.
 Float gauge. O. H. Avers. No. 1,414,927; May 2.
 Float, Stabilizing. S. O. Jacobson. No. 1,405,036; Jan. 31.
 Float switch. H. E. Boe. No. 1,419,352; June 13.
 Floor. M. Taillardat. No. 1,434,756; Nov. 7.
 Floor and surfacing machine. J. Kigas. No. 1,435,967; Nov. 21.
 Floor boards or the like, Inlaying designs in. M. Uman. No. 1,431,067; Oct. 3.
 Floor construction. A. G. Hatch. No. 1,415,554; May 9.
 Floor construction. T. G. Nicholson. No. 1,427,625; Aug. 29.
 Floor construction. C. W. Stevens. No. 1,418,742; June 6.
 Floor construction. J. J. Whitacre. No. 1,409,984; Mar. 21.
 Floor construction, Reenforced. P. H. Bevier. No. 1,432,100; Oct. 17.
 Floor covering. W. H. Frazier and W. J. O'Neill. No. 1,425,847; Aug. 15.
 Floor covering. R. P. Perry. No. 1,409,768; Mar. 14.
 Floor covering. W. G. Thomas, Jr. No. 1,427,655; Aug. 29.
 Floor coverings and the like, Strip for. M. Patterson. No. 1,423,143; July 18.
 Floor form. L. H. Garlinghouse. No. 1,428,953; Sept. 12.
 Floor-forming form. R. E. Richmond. No. 1,420,863; June 27.
 Floor furnace. A. Gamble. No. 1,415,234; May 9.
 Floor grating. W. L. Pattison. No. 1,421,827; July 4.
 Floor loading buck. E. S. Evans. No. 1,426,164; Aug. 15.
 Floor-planing machine. T. J. Power. No. 1,418,328; June 6.
 Floor rack, Sectional. G. F. Zaun. No. 1,405,655; Feb. 7.
 Floor set. J. Keyzer. No. 1,431,463; Oct. 10.
 Floor, Stall. J. Hotz. No. 1,402,613; Jan. 8.

Alphabetical list of inventions—Continued.

- Floor structure. V. E. Rowland. No. 1,424,422; Aug. 1.
 Floor structure, Combined. J. H. Toupet. No. 1,404,710; Jan. 24.
 Floor-surfacing machine. H. H. Wolfe. No. 1,438,283; Dec. 12.
 Floor tiling, etc., Composition for making. J. H. Ingoldsby. No. 1,403,786; Jan. 17.
 Floor waxer and polisher. J. T. Garton. No. 1,432,994; Oct. 24.
 Flooring. C. J. Carter. No. 1,412,506; Apr. 11.
 Flooring. F. L. Davis. No. 1,404,279; Jan. 24.
 Flooring construction. W. E. Ruthrauff. No. 1,407,679; Feb. 21.
 Flooring, Construction of. J. T. Sentrop, Jr. No. 1,410,768; Mar. 28.
 Flooring material and making same. R. Jeschke. No. 1,421,086; June 27.
 Floors and other surfaces, Scraper device for cleaning. J. C. Davidson. No. 1,438,750; Dec. 12.
 Floors, Preparation for the treatment of dancing. J. L. Murray. No. 1,404,216; Jan. 24.
 Floral hanger. J. C. James. No. 1,418,801; June 6.
 Floss carrier. F. W. Edwards. No. 1,439,076; Dec. 19.
 Floss holder. L. C. Ball. No. 1,438,939; Dec. 19.
 Flotation agent. J. H. James. No. 1,439,107; Dec. 19.
 Flotation agent and making same. A. and M. Hirsch. No. 1,407,749; Feb. 28.
 Flotation agent and producing same. R. E. Sayre. No. 1,415,899; May 16.
 Flotation apparatus. A. W. Fahrenwald. No. 1,417,895; May 30.
 Flotation apparatus. J. T. Shimmmin and C. E. Bushnell. No. 1,402,099; Jan. 3.
 Flotation process. R. Luckenbach. No. 1,425,327; Aug. 8.
 Flour-bin holder. F. H. Elwert. No. 1,430,960; Oct. 3.
 Flour bins, Gate control for. E. Gase. No. 1,419,556; June 13.
 Flour feeder. J. W. Benedict. No. 1,421,896; July 4.
 Flour, Maturing and bleaching. J. C. Baker. No. 1,404,922; Jan. 31.
 Flour-milling process. A. W. Woolcott. No. 1,424,608; Aug. 1.
 Flour, Prepared. W. P. M. Grelek. No. 1,428,628; Sept. 12.
 Flour, Producing wood. J. J. Cunningham. No. 1,406,938; Feb. 14.
 Flour to improve its baking qualities, Aging wheaten. R. Hutchinson. No. 1,422,102; July 11.
 Flour weighing, blending, elevating, and sifting machine. F. X. Lauterbur. No. 1,434,618; Nov. 7.
 Flow-control device. H. B. Morrill. No. 1,419,640; June 13.
 Flow meter. A. R. Long and H. H. Turner. No. 1,416,220; May 16.
 Flow-regulating apparatus. L. De Florez. No. 1,426,718; Aug. 22.
 Flow tube. H. H. Mapelsden and C. F. Bullock. No. 1,419,876; June 13.
 Flower and making it, Artificial. E. B. Austin. No. 1,415,764; May 9.
 Flower, Artificial. M. Erman and J. Lamovšek. No. 1,439,539; Dec. 19.
 Flower, Artificial. J. E. Stevens. No. 1,418,846; June 6.
 Flower, Artificial. L. P. Welch. No. 1,413,438; Apr. 18.
 Flower box. A. Hassig. No. 1,420,191; June 20.
 Flower box. D. E. Shrauger. No. 1,433,043; Oct. 24.
 Flower holder. G. Skidmore. No. 1,402,904; Jan. 10.
 Flower holder, Earth-embedded. J. Buss. No. 1,439,143; Dec. 19.
 Flowerpot. C. H. Bailey. No. 1,426,808; Aug. 22.
 Flowerpot or bouquet holder. T. C. Waters. No. 1,421,327; June 27.
 Flowerpots, Machine for manufacturing and finishing. H. H. Montague. No. 1,439,970; Dec. 26.
 Flower receptacle. J. Brettschneider. No. 1,423,906; July 25.
 Flower stand. Y. Noda. No. 1,431,679; Oct. 10.
 Flue and flue section. W. M. Connery. No. 1,416,334; May 16.
 Flue cap. J. K. Pennington. No. 1,420,141; June 20.
 Flue cleaner. L. M. Davis. No. 1,408,934; Mar. 7.
 Flue cleaner. S. S. Poole. No. 1,415,950; May 16.
 Flue cleaner. H. D. Gill. No. 1,414,943; May 2.
 Flue cleaner. A. W. Terrell. No. 1,414,840; May 2.
 Flue-cleaning apparatus. E. M. Jenkins and R. E. Jackson. No. 1,416,209; May 16.
 Flue clean-out. F. Newman. No. 1,435,078; Nov. 7.
 Flue expander, Sectional. H. V. Stevens. No. 1,440,032; Dec. 26.
 Flue, Linter. J. H. Morgan. No. 1,431,021; Oct. 3.
 Flue-wall facing. W. N. Blackburn. No. 1,436,750; Nov. 28.
 Flues and the like, Damper for. B. Gentrup. No. 1,413,469; Apr. 18.
 Fluid apparatus for controlling the flow of. J. L. Fitts. No. 1,438,031; Dec. 5.
 Fluid brake. F. L. Jones. No. 1,403,031; Jan. 10.
 Fluid clutch. E. A. Biller. No. 1,404,571; Jan. 24.
 Fluid combustibles, Calorimeter of the continuous and recording type for determining the calorific power of. J. Aguilón. No. 1,435,783; Nov. 14.
 Fluid compressor. S. W. Calhoun. No. 1,413,388; Apr. 18.
 Fluid compressor. C. B. Van Horn. No. 1,415,852; May 9.
 Fluid compressor. C. W. Metzgar. No. 1,427,835; Sept. 5.
 Fluid compressor. C. W. Metzgar. No. 1,430,577; Oct. 3.
 Fluid compressor. E. P. Oswald. No. 1,431,593; Oct. 10.
 Fluid computing and recording device. G. W. Harness. No. 1,439,163; Dec. 19.
 Fluid condensing or heating device. L. F. Forseille. No. 1,410,561; Mar. 28.
 Fluid-controlling device. M. E. Gates. No. 1,427,455; Aug. 29.
 Fluid-current conveyor. G. T. Lewis. No. 1,439,249; Dec. 19.
 Fluid-current motor. H. G. Lloyd and C. A. Spon. No. 1,413,411; Apr. 18.
 Fluid-current motor. D. G. White. No. 1,436,843; Nov. 28.
 Fluid-dispensing device. G. R. Barksdale. No. 1,434,982; Nov. 7.
 Fluid drier. R. H. Moore. No. 1,402,784; Jan. 10.
 Fluid engine. C. P. Salgee. No. 1,427,701; Aug. 29.
 Fluid fuel, Burner for. W. Dederich and S. Willner. No. 1,417,146; May 23.
 Fluid gauge. J. G. Collison, J. W. Wright, H. M. Filbert, and W. Frank. No. 1,423,191; July 18.
 Fluid gauge, Visible. M. W. Joy. No. 1,424,104; July 25.
 Fluid heater. G. M. Hollenback. No. 1,408,198; Feb. 28.
 Fluid leakage through points and bearings, Means for controlling. L. E. Shaw. No. 1,426,416; Aug. 22.
 Fluid masses, Apparatus for agitating. B. A. Hook. No. 1,427,210; Aug. 29.
 Fluid-measuring apparatus. N. B. Gardiner. No. 1,429,232; Sept. 19.
 Fluid meter. E. Claassen. No. 1,431,511; Oct. 10.
 Fluid meter. H. N. Packard. No. 1,416,572; May 16.
 Fluid, Method and apparatus for metering. G. H. Rowe and C. W. Humphrey. No. 1,436,778; Nov. 28.
 Fluid mixer. H. G. Levy. No. 1,417,927; May 30.
 Fluid-mixing device. W. W. Cummings. No. 1,421,130; June 27.
 Fluid motor. J. Gasser. No. 1,412,400; Apr. 11.
 Fluid motor. I. D. Geiger. No. 1,434,336; Oct. 31.
 Fluid motor. G. H. Gilman. No. 1,437,513; Dec. 5.
 Fluid motor. C. Sechrist. No. 1,419,772; June 13.
 Fluid-operated motor. O. E. Clark. No. 1,424,156; Aug. 1.
 Fluid-pressure-actuated clamp, particularly for rock-drill mounting. J. H. Veasey. No. 1,404,179; Jan. 17.
 Fluid-pressure-actuated motor. T. Laurent. No. 1,412,878; Apr. 18.
 Fluid-pressure brake. J. W. Cloud. No. 1,403,846; Jan. 17.
 Fluid-pressure brake. E. E. Hewitt. No. 1,434,385; Nov. 7.
 Fluid-pressure brake. E. M. Richards. No. 1,424,033; July 25.
 Fluid-pressure brake. T. H. Thomas. No. 1,428,997; Sept. 12.
 Fluid-pressure brake device. T. R. Bristol. No. 1,403,839; Jan. 17.
 Fluid-pressure brake device. C. C. Farmer. Nos. 1,432,449-50; Oct. 17.
 Fluid-pressure brake device. T. H. Thomas. No. 1,432,427; Oct. 17.
 Fluid-pressure controller. V. V. Veenshoten. No. 1,419,331; June 13.
 Fluid-pressure controller. V. V. Veenshoten. No. 1,430,127; Sept. 26.
 Fluid-pressure gauge. J. Cutts and W. C. Gillott. No. 1,406,616; Feb. 14.
 Fluid-pressure motor. W. H. Keller, M. Maximilian, and A. Schinkez. No. 1,427,157; Aug. 29.
 Fluid, semifluid, and plastic substances, Device for feeding. F. McLaughlin. No. 1,427,758; Aug. 29.
 Fluid system. G. G. Earl. No. 1,407,993; Feb. 28.
 Fluid system. G. G. Earl. No. 1,430,731; Oct. 3.
 Fluid systems, Fitting for high-pressure. J. Hanson. No. 1,403,773; Jan. 17.
 Fluid-tight joint. W. H. Sumbling. No. 1,429,303; Sept. 19.
 Fluid-translating device. H. F. Schmidt. (Reissue.) No. 1,5315; Mar. 21.
 Fluid-translating device. H. F. Schmidt. Nos. 1,421,840-5; July 4.
 Fluid transmission. A. J. Farrar and L. D. Putney. No. 1,431,642; Oct. 10.
 Fluid trap. J. P. Lippert. No. 1,420,045; June 20.
 Fluids, Apparatus for heating or vaporizing. C. Dué. No. 1,403,594; Jan. 17.
 Fluids, Apparatus for moving and mixing. B. Skidmore, Jr. No. 1,434,848; Nov. 7.
 Fluids, Apparatus for proportioning flowing. H. N. Packard. No. 1,437,611; Dec. 5.
 Fluids, Automatic mechanism for controlling the flow of. A. S. Miller. No. 1,438,847; Dec. 12.
 Fluids, Conduit for volatilized. E. B. Fahnestock. No. 1,430,892; Oct. 3.
 Fluids, Device for measuring or controlling the velocity of flowing. B. Graemiger. No. 1,407,060; Feb. 21.
 Fluids for injection purposes, Container for. J. J. Seelman. No. 1,424,187; Aug. 1.
 Fluids, High-temperature preheater for. P. St. Clair, Jr. No. 1,439,340; Dec. 19.

Alphabetical list of inventions—Continued.

- Fluids, Means for controlling elastic. A. C. Ionides, Jr., and S. V. Cooke. No. 1,437,311; Nov. 28.
- Fluids, Means for controlling the flow of. C. H. Cochran. No. 1,423,831; July 25.
- Fluids, Method and apparatus for pumping. A. G. M. Michell. No. 1,421,976; July 4.
- Fluids, Method of and apparatus for controlling the flow of. J. C. Wilson. Nos. 1,437,626-7; Dec. 5.
- Fluids, Preserving lacteal. S. J. Davis. No. 1,436,947; Nov. 28.
- Fluids, Self-cleaning strainer for. G. W. Collin. No. 1,438,983; Dec. 19.
- Fluids, Treating. P. A. Kober. No. 1,409,185; Mar. 14.
- Flume. H. K. Dutcher. No. 1,413,528; Apr. 18.
- Flume construction. A. H. Stowell. No. 1,415,274; May 9.
- Flume gratings, Device for cleaning. W. O. Randlett. No. 1,420,283; June 20.
- Flume gratings, Device for cleaning. W. O. Randlett. No. 1,429,629; Sept. 19.
- Fluorescent indicator or signal, Hand-carried. P. R. Shailer. No. 1,402,382; Jan. 3.
- Fluoroscopic unit, Vertical. H. F. Waite. No. 1,420,395; June 20.
- Flush bowl. G. H. Van Eck. No. 1,432,141; Oct. 17.
- Flush bowl, Sanitary. A. D. Grant. No. 1,419,498; June 13.
- Flush switch. H. G. Pape. No. 1,408,630; Mar. 7.
- Flush tank. E. Leeberg. No. 1,426,203; Aug. 15.
- Flush tank. B. O. Tilden. No. 1,429,304; Sept. 19.
- Flush-tank-operating lever. H. MacMillan. No. 1,436,628; Nov. 21.
- Flushing apparatus. H. Beaumont and J. W. Polhemus. No. 1,402,137; Jan. 3.
- Flushing apparatus. A. M. Houser and W. B. Morris. No. 1,408,883; Mar. 7.
- Flushing apparatus. L. Solhéid. No. 1,423,634; July 25.
- Flushing apparatus. W. Weber. No. 1,428,728; Sept. 12.
- Flushing apparatus, Automatic. H. D. Moise. No. 1,413,484; Apr. 18.
- Flushing apparatus, Conduit. W. Weber. No. 1,426,135; Aug. 15.
- Flushing apparatus, Street-. A. Fricker. No. 1,405,831; Feb. 7.
- Flushing device. D. E. Gulick. No. 1,437,650; Dec. 5.
- Flushing device, Automatic sewer. R. A. Maddox. No. 1,437,000; Nov. 28.
- Flushing mechanism. O. H. Theleen. No. 1,423,888; July 25.
- Flushing receptacle. E. J. Schneider. No. 1,429,643; Sept. 19.
- Flushing tank. F. D. Leslie. No. 1,430,571; Oct. 3.
- Flushing tank. A. J. Lundberg. No. 1,436,350; Nov. 21.
- Flushing tank. H. L. Phillips. No. 1,417,280; May 23.
- Flushing tank. F. C. Rood. No. 1,426,509; Aug. 22.
- Fluting machine. W. E. Estep, A. E. Hamilton, and E. L. Simonson. No. 1,415,819; May 9.
- Fluting machine. R. T. Murray and J. W. Tasker. No. 1,435,025; Oct. 24.
- Flux. B. F. Pyle. No. 1,416,871; May 23.
- Flycatcher. M. Maxian. No. 1,428,384; Sept. 5.
- Fly exterminator. E. J. Marchand. No. 1,422,287; July 11.
- Fly-killing device, Electrical. C. Pandolfo. No. 1,429,691; Sept. 19.
- Fly screen. F. S. Russell. No. 1,435,982; Nov. 21.
- Fly swatter. J. C. Field. No. 1,420,536; June 20.
- Fly swatter. R. Zohm. No. 1,425,622; Aug. 15.
- Flytrap. S. Alseith. No. 1,427,050; Aug. 22.
- Flytrap. M. W. Becket. No. 1,413,155; Apr. 18.
- Flytrap. C. A. Carlyle. No. 1,424,619; Aug. 1.
- Flytrap for use with live stock. J. W. Gibbons. No. 1,427,204; Aug. 29.
- Flytrap, Hanging. E. A. Keckler. No. 1,419,859; June 13.
- Flying machine. H. Baumeister. No. 1,439,993; Dec. 26.
- Flying machine. A. Bennett. No. 1,408,496; Mar. 7.
- Flying machine. F. W. Budig. No. 1,419,447; June 13.
- Flying machine. G. Caproni. No. 1,420,620; June 27.
- Flying machine. O. R. Cassell. No. 1,406,344; Feb. 14.
- Flying machine. W. W. Christmas. No. 1,413,258; Apr. 18.
- Flying machine. J. P. Dorman. No. 1,436,243; Nov. 21.
- Flying machine. H. D. Eastly. No. 1,406,545; Feb. 14.
- Flying machine. J. G. Faust. No. 1,420,247; June 20.
- Flying machine. T. M. Finley. No. 1,426,369; Aug. 22.
- Flying machine. R. Goldschmidt. No. 1,431,111; Oct. 3.
- Flying machine. F. G. Haney. No. 1,409,850; Mar. 14.
- Flying machine. A. P. Hedberg. No. 1,417,602; May 30.
- Flying machine. K. Herrmann. No. 1,426,639; Aug. 22.
- Flying machine. D. B. Holson. No. 1,414,186; Apr. 25.
- Flying machine. W. S. Hull. Nos. 1,435,235-6; Nov. 14.
- Flying machine. A. L. Marple. No. 1,408,899; Mar. 7.
- Flying machine. G. Matta. No. 1,408,115.
- Flying machine. J. E. McWorter. No. 1,438,929; Dec. 12.
- Flying machine. G. E. Moir. No. 1,403,909; Jan. 17.
- Flying machine. N. F. Overturf. No. 1,407,079; Feb. 21.
- Flying machine. J. Papiez. No. 1,407,437; Feb. 21.
- Flying machine. L. Schaeffer. No. 1,431,129; Oct. 3.
- Flying machine. F. D. Shepperd. No. 1,431,698; Oct. 10.
- Flying machine. F. E. Skrobback. No. 1,434,922; Nov. 7.
- Flying machine. H. P. Sorensen. No. 1,432,213; Oct. 17.
- Flying machine. T. Van Voorst. No. 1,428,066; Sept. 5.
- Flying machine. T. Vula. No. 1,423,636; July 25.
- Flying machine. I. Williams. No. 1,408,918; Mar. 7.
- Flying-machine construction. G. Caproni. No. 1,416,167; May 16.
- Flying-machine cover. C. Dornier. No. 1,427,448; Aug. 29.
- Flying machine, Direct-ascent. P. van Leggelo. No. 1,435,190; Nov. 14.
- Flying machine, Heavier-than-air. J. Higginbottom. No. 1,403,322; Jan. 10.
- Flying-machine structure. C. Dornier. No. 1,430,220; Sept. 26.
- Flying-machine wings, Sustaining element or feather for. F. M. Rilleau. No. 1,428,559; Sept. 12.
- Flying machines, Armor plate for. A. H. G. Fokker. No. 1,433,359; Oct. 24.
- Flying machines, Arrangement of radiators in. L. Wagen-seil. No. 1,412,073; Apr. 11.
- Flying machines, Buoying and driving mechanism for. G. Hedén. No. 1,426,870; Aug. 22.
- Flying machines, Controlling mechanism for. R. E. Mitton and W. M. Braley. No. 1,422,288; July 11.
- Flying machines, Gas control for. T. M. Finley. No. 1,426,370; Aug. 22.
- Flying machines, Stabilization of. H. Junkers. No. 1,407,425; Feb. 21.
- Flying machines, Towing connection for. A. H. G. Fokker. No. 1,418,783; June 6.
- Flying machines, Vibrating wing for. R. Goldschmidt. No. 1,412,346; Apr. 11.
- Flying switch. F. W. Henrikson. No. 1,424,198; Aug. 1.
- Flywheel. V. W. Page. No. 1,407,568; Feb. 21.
- Fly-wheel attachment. W. R. Hill. No. 1,409,109; Mar. 7.
- Fly wheel, Resilient. A. E. Schein. No. 1,418,330; June 6.
- Focusing device. C. E. Godley. No. 1,417,053; May 23.
- Focusing device. C. E. Godley. No. 1,426,857; Aug. 22.
- Focusing device. C. E. Godley. No. 1,435,156; Nov. 14.
- Focusing device. C. E. Godley. No. 1,439,095; Dec. 19.
- Focusing device. A. F. Jobke. No. 1,404,440; Jan. 24.
- Focusing device. K. G. Lee. No. 1,414,193; Apr. 25.
- Focusing device. W. G. Wood. No. 1,416,394; May 16.
- Fodder cutter. J. Dick. No. 1,438,365; Dec. 12.
- Fodder, Unloading device relative to unloading. L. E. Hoelscher. No. 1,415,034; May 9.
- Foghorn for motor crafts. O. Håkensen. No. 1,428,587; Sept. 12.
- Foil and foil package, Sealing. E. J. Conley. No. 1,433,800; Oct. 31.
- Foil package and forming the same, Sealed. E. J. Conley. No. 1,433,801; Oct. 31.
- Foldable box. W. E. Scott. No. 1,409,417; Mar. 14.
- Foldable carton. E. Steudel. No. 1,423,272; July 18.
- Foldable easy chair, Automatic adjustable and. H. Bauerle. No. 1,414,064; Apr. 25.
- Folder. G. S. Potter. No. 1,408,531; Mar. 7.
- Folder and picture frame, Combination. D. S. Karr. No. 1,426,649; Aug. 22.
- Folding and slitting machine. H. Ehlig. No. 1,439,805; Dec. 26.
- Folding and strip-attaching mechanism. A. B. Wales. No. 1,416,310; May 16.
- Folding box. J. A. H. Bellamy. No. 1,433,062; Oct. 24.
- Folding box. C. and O. A. Flagstad. No. 1,432,173; Oct. 17.
- Folding box. E. G. Gereke. (Reissue.) No. 15,453; Sept. 12.
- Folding box. A. O. Hubbard. No. 1,431,232; Oct. 10.
- Folding box. J. F. Lyons. No. 1,433,288; Oct. 24.
- Folding box. C. C. Miller. No. 1,421,526; July 4.
- Folding box, Collapsible. S. F. Sutherland. No. 1,425,068; Aug. 8.
- Folding bracket. N. J. Lundeen. No. 1,437,063; Nov. 28.
- Folding carrier. M. Meyerson. No. 1,431,974; Oct. 17.
- Folding chair. W. B. Anselm. No. 1,426,140; Aug. 15.
- Folding chair. H. E. Barrows. No. 1,423,594; July 25.
- Folding chair. E. P. Elzey. No. 1,430,732; Oct. 3.
- Folding chair. J. N. Olsen. No. 1,412,194; Apr. 11.
- Folding chair. P. H. Peters. No. 1,424,031; July 25.
- Folding chair. G. D. Schermerhorn. No. 1,436,202; Nov. 21.
- Folding chair. J. Shoemaker. No. 1,440,248; Dec. 26.
- Folding device. L. L. Salfisberg. No. 1,432,211; Oct. 17.
- Folding device. S. Wheeler. No. 1,436,302; Nov. 21.
- Folding frame, Covered. C. R. Kositzky. No. 1,422,450; July 11.
- Folding machine. H. H. Allen. No. 1,402,035; Jan. 3.
- Folding machine. A. D. Elliott. Nos. 1,420,474-5; June 20.
- Folding machine. P. R. Glass. No. 1,406,371; Feb. 14.
- Folding machine. J. Glendon. No. 1,405,776; Feb. 7.
- Folding machine. C. H. Jones. No. 1,416,298; May 16.
- Folding machine. R. S. Latimer. No. 1,416,099; May 16.
- Folding machines, Combined guide and work-holding device for. C. F. Althouse. No. 1,416,660; May 16.
- Folding machines, Die holder for. G. A. Schreiner. No. 1,432,264; Oct. 17.
- Folding machines, Slitting mechanism for. W. T. Lautenschlager. No. 1,431,590; Oct. 10.
- Folding seat. A. Carlson. No. 1,421,167; June 27.
- Folding table. W. S. Graffam. No. 1,416,815; May 23.
- Folding table. W. A. Johnson. No. 1,432,465; Oct. 17.
- Folding table. L. J. Miller. No. 1,416,048; May 16.
- Folding table. T. H. Musselman. No. 1,431,172; Oct. 10.

- Folding table. G. J. Nichols and B. F. Orear. No. 1,402,174; Jan. 3.
- Folding table. L. Noltz. No. 1,421,541; July 4.
- Folding table. J. K. Zielonko. No. 1,424,610; Aug. 1.
- Folding table, Knockdown. J. A. Malarkey. No. 1,424,419; Aug. 1.
- Fondant or chocolate soft cream centers, Preparing. H. S. Paine and J. Hamilton. No. 1,437,816; Dec. 5.
- Fonting apparatus. L. B. and M. F. Benton. No. 1,418,057; May 30.
- Food. M. A. Fritz-Williams. No. 1,402,347; Jan. 3.
- Food. B. F. Swezey. No. 1,416,588; May 16.
- Food and package carrier, Automatic. M. Dodge. No. 1,411,845; Apr. 4.
- Food and preparing the same, Cooked cereal. G. Beck. No. 1,435,794; Nov. 14.
- Food and producing same, Malted. R. Wahl. No. 1,410,973 Mar. 28.
- Food, Apparatus for preparing stock. H. S. Wikel and M. F. Thatcher. No. 1,420,008; June 20.
- Food, Article of. M. Schenk. No. 1,411,192; Mar. 28.
- Food box. J. W. Argubright. No. 1,431,085; Oct. 3.
- Food chopper. I. M. Lentuch. No. 1,434,298; Oct. 31.
- Food chopper. P. Liebelt. No. 1,420,933; June 27.
- Food compound. J. A. Lawson. No. 1,403,122; Jan. 10.
- Food containers, Exhausting. J. F. Anderson. No. 1,429,392; Sept. 19.
- Food cutters, Drip cup for. H. T. Waldner. No. 1,426,025; Aug. 15.
- Food dispenser. I. J. Van Fleet. No. 1,429,260; Sept. 19.
- Food-dispensing apparatus. C. J. Vann. No. 1,416,764; May 23.
- Food ingredients, Treating nut kernels to produce. H. R. and L. E. Scott. No. 1,416,128; May 16.
- Food machine. J. and H. Trust. No. 1,415,735; May 9.
- Food machine. J. and H. Trust. Nos. 1,418,107-8; May 30.
- Food machine. J. and H. Trust. No. 1,418,749; June 6.
- Food machine. J. and H. Trust. No. 1,422,391; July 11.
- Food, Making prepared. D. M. Anderson. No. 1,415,137; May 9.
- Food, Medicine and hygienic. J. C. Richard. No. 1,417,412; May 23.
- Food, Precooked. E. S. Stoddard and C. S. Miner. No. 1,402,108; Jan. 3.
- Food, Preserving. A. B. A. Fich. No. 1,420,373; June 20.
- Food product. M. Bloch. (Reissue). No. 15,474; Oct. 24.
- Food product. S. Luft. No. 1,420,661; June 27.
- Food product. C. S. Miner. No. 1,434,498; Nov. 7.
- Food product. H. Mock. No. 1,414,576; May 2.
- Food product. J. H. Morgan, sr., and J. H. Morgan, jr. No. 1,430,670; Oct. 3.
- Food product. C. O. Phillips. No. 1,410,345; Mar. 21.
- Food product. J. Starrels. No. 1,414,675; May 2.
- Food product and making same. J. W. Barwell. No. 1,409,435; Mar. 14.
- Food product and making same. W. R. Huston. No. 1,414,022; Apr. 25.
- Food product and making same. D. G. Sell. No. 1,416,387; May 16.
- Food product and preparing the same. W. T. Gamage. No. 1,408,803; Mar. 7.
- Food product and process. G. Moore. No. 1,415,893; May 16.
- Food product and producing same, Flaked. N. Mininberg. No. 1,411,641; Apr. 4.
- Food product and producing the same, Puffed. N. Mininberg. No. 1,426,756; Aug. 22.
- Food product, Frozen. W. B. Smith. No. 1,434,070; Oct. 31.
- Food products and preparing same. S. Luft. No. 1,424,927; Aug. 8.
- Food products and producing same, Preservative waterproof and moldproof compound for wrapped. C. G. Ferrari. No. 1,407,400; Feb. 21.
- Food products, Apparatus for making. T. Charlton. No. 1,406,170; Feb. 14.
- Food products, Apparatus for preparing. F. G. T. O'Brien. No. 1,409,463; Mar. 14.
- Food products, Drying. B. S. Harrison. No. 1,414,275; Apr. 25.
- Food products, Mechanism for conveying and stacking. E. E. Lawrence. No. 1,433,511; Oct. 24.
- Food, Production of yeast. A. H. Gallagher. No. 1,431,448; Oct. 10.
- Food regulator, Proportional. L. E. Maxey. No. 1,427,405; Aug. 29.
- Food safe. C. Eaton. No. 1,411,272; Apr. 4.
- Foodstuffs and beverages, Freezing machine for. P. Werder. No. 1,434,174; Oct. 31.
- Foodstuffs, Apparatus for chopping. G. W. Gregory. No. 1,421,458; July 4.
- Foodstuffs, Insulated box for refrigerating or cooking. L. W. Getchell. No. 1,408,937; Mar. 7.
- Food substances to dry powdered form, Reducing semi-fluid. J. C. MacLachlan. No. 1,417,083; May 23.
- Foods, Bleaching. I. Hochstadter. No. 1,412,523; Apr. 11.
- Foods, Device for testing preserved. O. Carrasco. No. 1,434,771; Nov. 7.
- Foods, Preparing. W. H. Cloud. No. 1,411,479; Apr. 4.
- Foods, Preparing stable predigested. E. Monti. No. 1,416,372; May 16.
- Foot, Artificial. G. E. and W. L. Marks. No. 1,420,330; June 20.
- Football and other gameball. A. T. Edwards. No. 1,438,226; Dec. 12.
- Football and other sportball. K. Büchner and F. Stöcklein. No. 1,436,630; Nov. 21.
- Football, punch ball, net ball, and the like. F. A. Turner. No. 1,439,456; Dec. 19.
- Footboard, One-piece. C. W. Meldrum. No. 1,408,116; Feb. 28.
- Foot corrector. L. K. Bunch. No. 1,402,834; Jan. 10.
- Foot covering. E. A. Wagner. No. 1,438,072; Dec. 5.
- Foot-impression-taking device. G. G. Rosino. No. 1,435,943; Nov. 21.
- Foot presses, Safety device for. H. C. Paecht. No. 1,407,765; Feb. 28.
- Foot rest. M. C. Montville. No. 1,432,776; Oct. 24.
- Foot rest. D. Pappas. No. 1,434,561; Nov. 7.
- Foot rest. V. L. Roberson. No. 1,430,755; Oct. 3.
- Foot rest. E. Santoniello. No. 1,435,744; Nov. 14.
- Footstool, Adjustable. M. Weingarten. No. 1,402,698; Jan. 3.
- Foot support. L. Gutmann. No. 1,417,989; May 30.
- Foot support. H. Patten. No. 1,408,712; Mar. 7.
- Foot support. A. Roth. No. 1,423,456; July 18.
- Foot throttle control. C. A. Deschner. No. 1,416,798; May 23.
- Foot, toe, and ankle brace, Automatic. G. F. Madinger. No. 1,429,604; Sept. 19.
- Footwear. J. F. Teehan. No. 1,420,461; June 20.
- Footwear and making same. J. J. Byers. No. 1,408,265; Feb. 28.
- Footwear, Finishing. K. B. Mathes. No. 1,439,743; Dec. 26.
- Footwear, Stud for. E. A. Plant. No. 1,433,411; Oct. 24.
- Footwear, Surgical. L. Chevrier. No. 1,402,282; Jan. 3.
- Ford machines, Back connecting-rod wrench for. D. F. Bratton. No. 1,440,272; Dec. 26.
- Forge. J. A. Mueller. No. 1,405,146; Jan. 31.
- Forge clamp. P. A. Leach. No. 1,423,123; July 18.
- Forges, Gas burner for well-drilling. E. A. Clark. No. 1,406,346; Feb. 14.
- Forging. E. D. Lowell. No. 1,433,213; Oct. 24.
- Forging and heat-treating furnace, Electric. F. G. Dawson. No. 1,430,438; Sept. 26.
- Forging machine. F. A. Halleck. No. 1,405,116; Jan. 31.
- Forging machine. F. A. Halleck. No. 1,416,635; May 16.
- Forging method and apparatus. A. J. Larcher. No. 1,434,215; Oct. 31.
- Forging press. T. M. Phillips. No. 1,431,681; Oct. 10.
- Forging process and apparatus. A. J. Larcher. No. 1,403,696; Jan. 17.
- Forging yokes. J. A. Lamont and A. Walcher. No. 1,431,238; Oct. 10.
- Fork: See—
Motor-cycle spring fork.
- Fork or paddle. A. K. Johnson. No. 1,432,108; Oct. 17.
- Form, Foldable. A. Z. Baker. No. 1,438,083; Dec. 5.
- Forming die. C. G. Cornell, Jr. No. 1,420,970; June 27.
- Forming machine. C. M. Brehm. No. 1,420,468; June 20.
- Forming machine. C. G. Grottnes. No. 1,407,148; Feb. 21.
- Forming machine. W. E. Wade and T. H. Seely. No. 1,406,307; Feb. 14.
- Fort, Collapsible. H. Wylie. No. 1,437,699; Dec. 5.
- Foul-air remover. J. McNulty. No. 1,430,460; Sept. 26.
- Foul-air removers, Collapsible jacket for. J. McNulty. No. 1,430,459; Sept. 26.
- Foundation, Sanitary. E. C. Hodges. No. 1,433,205; Oct. 24.
- Foundations, Method and apparatus for making. M. Blumenthal. No. 1,404,925; Jan. 31.
- Foundry molding material. F. G. Dokkenwadel. No. 1,425,457; Aug. 8.
- Foundry operations, Independent zone plan for continuous. C. K. Prince. No. 1,421,305; June 27.
- Fountain: See—
Bubbler fountain. Drinking fountain.
- Fountain and the like, Coating. A. C. V. Malm. No. 1,417,931; May 30.
- Fountain attachment. L. F. Veil. No. 1,437,695; Dec. 5.
- Fountain for live stock, Drinking. C. Long. No. 1,438,770; Dec. 12.
- Fountain mixing tool. J. H. Glasgow. No. 1,408,584; Mar. 7.
- Fountain, Sanitary drinking. K. D. Perkins and A. D. Karr. No. 1,430,848; Oct. 3.
- Fountain sponge. G. F. Strieff. No. 1,410,620; Mar. 28.
- Fountain washing device. F. M. Brabrook. No. 1,424,874; Aug. 8.
- Fountains, Faucet for soda. F. W. A. Brockmiller. No. 1,427,148; Aug. 29.
- Fountains, Regulator for antifreezing drinking. K. Murdock. No. 1,419,292; June 13.
- Fourdrinier machine. A. J. Davies. No. 1,425,240; Aug. 8.
- Fowl cleaner. W. A. Bruck. No. 1,421,397; July 4.
- Fowl retainer or holder. C. J. Baker. No. 1,410,640; Mar. 28.
- Fowls, Houses for. O. H. Hyde and P. A. Zimmerman. No. 1,404,963; Jan. 31.
- Fractional condensation. J. F. W. Schulze. No. 1,418,885; June 6.

Alphabetical list of inventions—Continued.

- Fractionating apparatus. H. L. Allan. No. 1,421,886; July 4.
- Frame: See—
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| Automobile frame. | Measuring frame. |
| Automobile lifting frame. | Metallic frame. |
| Baby-net frame. | Motor-cycle frame. |
| Bag frame. | Number-plate frame. |
| Beehive frame. | Pedestal truck side frame. |
| Beehive comb frame. | Photographic-printing frame. |
| Brood frame. | Picture frame. |
| Cam-holder frame. | Printing frame. |
| Cap-spinning frame. | Printing-press frame. |
| Casserole frame. | Reel frame. |
| Clock frame. | Sash frame. |
| Core frame. | Saw frame. |
| Curtain-light frame. | Screen frame. |
| Drying frame. | Sectional bed frame. |
| Embroidery frame. | Sewing-machine frame. |
| Eyeglass frame. | Side frame. |
| Foldable sunshade frame. | Spring-seat frame. |
| Folding frame. | Switchboard frame. |
| Furnace-door frame. | Target frame. |
| Grate frame. | Truck frame. |
| Hack-saw frame. | Truck side frame. |
| Heddle frame. | Vehicle window frame. |
| Honeycomb frame. | Weaving frame. |
| Lens frame. | Window frame. |
| Loom heddle frame. | Wringer frame. |
| Mattress frame. | |
- Frame and journal-box combination, Side. J. A. Lamont. No. 1,436,632; Nov. 21.
- Frame and spring members, Machine for assembling. C. H. Ziler. No. 1,422,326; July 11.
- Frame bender, Pneumatic. C. N. McCallum. No. 1,410,691; Mar. 28.
- Frame construction. A. G. Borchert. No. 1,415,775; May 9.
- Frame or foundation for cut flowers, Supporting. C. H. Fox. No. 1,433,808; Oct. 31.
- Frame shoe, Interlocking adjustable. J. O. Wagner. No. 1,435,270; Nov. 14.
- Frame stretcher. A. E. Maynard. No. 1,428,444; Sept. 5.
- Frame support. F. M. A'Hearn. No. 1,422,164; July 11.
- Framing apparatus. C. Horton. No. 1,418,570; June 6.
- Framing clamp. T. H. Kane. No. 1,431,527; Oct. 10.
- Framing device. E. S. Porter. No. 1,433,475; Oct. 24.
- Frames, Apparatus for wiring. S. J. Morrison. No. 1,407,435; Feb. 21.
- Frames, Tensioning means for tube. C. Lea. No. 1,408,704; Mar. 7.
- Free wheel. A. Carter. No. 1,412,336; Apr. 11.
- Freezer. A. T. Light. No. 1,435,246; Nov. 14.
- Freezing can. A. J. Bentley. Nos. 1,427,936-8; Sept. 5.
- Freezing can. A. J. Bentley. No. 1,437,165; Nov. 28.
- Freezing-point composition, Low-. C. V. Steinhart. No. 1,436,823; Nov. 28.
- Freezing tank. F. Kaiser. No. 1,435,643; Nov. 14.
- Freight and passenger elevator. D. V. Reedy. No. 1,435,082; Nov. 7.
- Freight, Apparatus for transferring and classifying. W. H. Mason. No. 1,437,536; Dec. 5.
- Freight carrier, Sliding knockdown. G. C. Kennedy. No. 1,415,244; May 9.
- Freight, express, etc., Handling. A. H. Smith. No. 1,407,596; Feb. 21.
- Freight-handling apparatus. J. J. Shea, Jr. No. 1,402,257; Jan. 3.
- Freight-handling system. E. B. Grace and W. J. Laffey. No. 1,417,242; May 23.
- Freight System for transporting. B. F. Fitch. No. 1,404,948; Jan. 31.
- Freight, System of handling. B. F. Fitch. No. 1,404,947; Jan. 31.
- Freight, Transferring and classifying. W. H. Mason. No. 1,437,535; Dec. 5.
- Freight-transferring apparatus. B. F. Fitch. No. 1,437,968; Dec. 5.
- Freight-transferring mechanism. B. F. Fitch. No. 1,437,965; Dec. 5.
- Frequency changer. A. H. Mittag. No. 1,423,959; July 25.
- Frequency-control system. O. B. Blackwell. No. 1,403,835; Jan. 17.
- Frequency-control system. J. R. Carson. No. 1,403,841; Jan. 17.
- Frequency impulses, Method of and apparatus for detecting, measuring, and utilizing low-. R. A. Fessenden. No. 1,429,497; Sept. 19.
- Frequency meter. N. Tesla. No. 1,402,025; Jan. 3.
- Frequency regulator. L. Espenschied. No. 1,423,518; July 25.
- Friction and spanner wrench, Combined. J. A. Schlsicher. No. 1,422,308; July 11.
- Friction brake. G. L. Smith. No. 1,422,006; July 4.
- Friction cap, Double-seal. E. Scofield. No. 1,426,917; Aug. 22.
- Friction closure for containers. C. Hammer. (Reissue.) No. 15,259; Jan. 3.
- Friction-clutch lever lock. E. Sanders. No. 1,405,336; Jan. 31.
- Friction composition and making same. W. Achtmeyer. No. 1,418,607; June 6.
- Friction coupling. J. S. Worth. No. 1,438,077; Dec. 5.
- Friction device. C. J. Pihl. No. 1,420,281; June 20.
- Friction drive coupling. B. C. White. No. 1,425,305; Aug. 8.
- Friction driving device. H. C. Egerton. No. 1,422,550; July 11.
- Friction element and making the same. J. P. Baldwin. No. 1,438,572; Dec. 12.
- Friction facing. F. C. Stanley. No. 1,414,383; May 2.
- Friction facing. F. C. Stanley. No. 1,417,779; May 30.
- Friction facings, Making. F. C. Stanley. No. 1,417,778; May 30.
- Friction facings, Making. W. C. Swift. No. 1,426,842; Aug. 22.
- Friction lining. H. Cory and O. D. Gray. No. 1,421,412; July 4.
- Friction-top and wax-sealed can, Combined. J. P. Wells. No. 1,432,506; Oct. 17.
- Frog switch. S. Maxwell. No. 1,437,944; Dec. 5.
- Frogless switch. M. Walsh. No. 1,425,619; Aug. 15.
- Fruit and producing same, Artificial. J. H. Emery. No. 1,436,024; Nov. 21.
- Fruit and vegetable case, Ventilated. J. J. Willenborg. No. 1,407,107; Feb. 21.
- Fruit and vegetable cutter. M. Kirnbauer. No. 1,415,449; May 9.
- Fruit and vegetable cutting machine. E. R. Jagenburg. No. 1,418,443; June 6.
- Fruit and vegetables, Machine for washing and polishing. F. L. Webster. No. 1,407,501; Feb. 21.
- Fruit, Apparatus for and process of stemming. W. E. Urschel. Nos. 1,409,802-3; Mar. 14.
- Fruit, Apparatus for preserving. R. E. Wheeler. No. 1,408,915; Mar. 7.
- Fruit box, Collapsible. R. E. Lowey. No. 1,430,455; Sept. 26.
- Fruit catcher. G. Boelman. No. 1,415,863; May 16.
- Fruit conveyer. G. R. Paranteau. No. 1,429,093; Sept. 12.
- Fruit corer and slicer. J. B. Underwood. No. 1,431,854; Oct. 10.
- Fruit coring, sizing, and slicing machine. E. J. Lewis. No. 1,415,458; May 9.
- Fruit cutter. C. F. Garman. No. 1,421,207; June 27.
- Fruit cutting and coring device. G. Vafiades and J. Koukos. No. 1,422,066; July 4.
- Fruit-cutting apparatus. J. A. Gray. No. 1,417,666; May 30.
- Fruit, Device for use in picking. A. E. Pim. No. 1,404,163; Jan. 17.
- Fruit-drying tray. W. H. Jones. No. 1,414,649; May 2.
- Fruit from leaves, Separating. J. Buckley. No. 1,459,985; May 16.
- Fruit harvester. F. Dale. No. 1,410,379; Mar. 21.
- Fruit jar. W. D. Green. No. 1,436,587; Nov. 21.
- Fruit jar and like receptacle. C. W. Thompson. No. 1,410,142; Mar. 21.
- Fruit-jar-capping machine. G. E. Frazier. No. 1,426,056; Aug. 15.
- Fruit-jar caps, etc., Remover for. E. A. Asplund. No. 1,402,731; Jan. 10.
- Fruit-jar cover. W. R. Nipper. No. 1,422,883; July 18.
- Fruit jar, Crushed-. A. W. Eichman. No. 1,419,921; June 20.
- Fruit jar, etc. C. W. Thompson. No. 1,420,892; June 27.
- Fruit-juice extractor. C. B. Blessing. No. 1,412,996; Apr. 18.
- Fruit-juice extractor. P. During. No. 1,432,166; Oct. 17.
- Fruit-juice extractor. R. Stein. No. 1,411,813; Apr. 4.
- Fruit juices, Clarifying. A. Gusmer. No. 1,406,554; Feb. 14.
- Fruit juices, Gathering and preserving. J. W. and H. F. Cheney. No. 1,403,072; Jan. 10.
- Fruit juices, Treating. J. G. F. Hieber. No. 1,429,679; Sept. 10.
- Fruit, Machine and process for stemming. W. E. Urschel. No. 1,409,804; Mar. 14.
- Fruit, Machine for treating. G. E. Fisher. No. 1,430,069; Sept. 26.
- Fruit, Machine for treating. A. E. Stanley. No. 1,430,124; Sept. 26.
- Fruit-marking machine, Electric. L. Neuenschwander. No. 1,421,292; June 27.
- Fruit-packing machine. A. Babb and E. B. Harris. No. 1,412,991; Apr. 18.
- Fruit picker. G. J. Kostakis. No. 1,435,534; Nov. 14.
- Fruit picker. S. A. Mickels and A. Newman. No. 1,418,599; June 6.
- Fruit picker. J. Moore. No. 1,415,945; May 16.
- Fruit pitter. R. B. Wilcox. No. 1,421,333; June 27.
- Fruit-pitting machine. L. R. Barber. No. 1,424,436; Aug. 1.
- Fruit-pitting machine. T. H. Elliott. No. 1,432,282; Oct. 17.
- Fruit-pitting machine. R. Fourchy. No. 1,407,524; Feb. 21.
- Fruit-pitting machine. C. C. Herbert. No. 1,438,526; Dec. 12.
- Fruit press. J. G. F. Hieber. No. 1,435,232; Nov. 14.
- Fruit seeder and slicer. G. Vafiades and J. Koukos. No. 1,423,490; July 18.
- Fruit snow flaker. J. B. Ingram. No. 1,414,953; May 2.
- Fruit, Stemmer for deciduous. R. P. Frist. No. 1,403,399; Jan. 10.

- Fruit-transferring device. G. R. Paranteau. No. 1,429,092; Sept. 12.
- Fruit trimmer and slicer. T. Whittam. No. 1,408,051; Feb. 28.
- Fruit washer. G. Glass. No. 1,402,490; Jan. 3.
- Fruits, Machine for grating, mashing, and pressing. E. Maurer and G. Wernli. No. 1,413,866; Apr. 25.
- Fruits, Machine for removing the stalks from. P. O. Navarre. No. 1,414,889; May 2.
- Fruits, Tool for sectionalizing citrus. R. B. Polk. No. 1,420,341; June 20.
- Fruits, vegetables, and other foods, Dehydrator for. R. Rea. No. 1,410,719; Mar. 28.
- Fruits, vegetables, and other substances, Apparatus for drying. G. H. Benjamin. No. 1,415,010; May 9.
- Frustrater, Holdup. J. F. Fenton. No. 1,407,399; Feb. 21.
- Fuel. B. R. Tunison. No. 1,423,048; July 18.
- Fuel agitation. H. F. Smith. No. 1,417,637; May 30.
- Fuel and air, Obtaining a combustible mixture of. C. A. Orr. No. 1,434,020; Oct. 31.
- Fuel and apparatus therefor, Burning. R. F. Metcalfe. No. 1,402,243; Jan. 3.
- Fuel and making same. C. Ellis. No. 1,412,233; Apr. 11.
- Fuel and making same, Artificial. C. J. Greenstreet. No. 1,432,178; Oct. 17.
- Fuel and making same, Solid. N. C. Tomassi and H. Danneel. No. 1,407,101; Feb. 21.
- Fuel and water, Method and means for burning carbonaceous. E. E. Murphy. No. 1,430,832; Oct. 3.
- Fuel, Apparatus for burning comminuted. J. H. Cooper. No. 1,413,323; Apr. 18.
- Fuel, Apparatus for forming a liquid. A. Hayes. No. 1,416,291; May 16.
- Fuel attachment. R. P. Anderson. No. 1,403,998; Jan. 17.
- Fuel-briquette material, Fluxer for. G. Komarek. No. 1,430,384; Sept. 26.
- Fuel briquettes, Artificial. W. W. Strafford. No. 1,430,767; Oct. 3.
- Fuel burner. H. O'Neill and E. Fandrich. No. 1,429,090; Sept. 12.
- Fuel burner. A. W. Smith and G. A. Collins. No. 1,414,438; May 2.
- Fuel burner, Fluid-. T. S. Derr. No. 1,423,312; July 18.
- Fuel burner, Fluid-. C. W. Mummery. No. 1,431,124; Oct. 3.
- Fuel burner Gaseous-. A. C. Lonides, Jr. No. 1,419,054; June 6.
- Fuel burner, Gaseous-. W. Ruff. No. 1,423,155; July 18.
- Fuel burner, Liquid-. J. Wegman. No. 1,420,003; June 20.
- Fuel burner, Solid artificial. G. A. Smith. No. 1,403,132; Jan. 10.
- Fuel burners, Air-control register for. W. R. Purnell. No. 1,434,406; Nov. 7.
- Fuel burners, Connection for liquid-. G. C. Lorenz. No. 1,416,221; May 16.
- Fuel-burning apparatus. E. C. Jacobson. (Reissue.) No. 15,281; Feb. 7.
- Fuel-burning apparatus. E. C. Jacobsen. No. 1,432,464; Oct. 17.
- Fuel-burning apparatus. C. D. Mosher. No. 1,440,095; Dec. 26.
- Fuel-burning apparatus, Liquid-. W. N. Best. No. 1,407,511; Feb. 21.
- Fuel, Comminuted. W. L. McLaughlin. No. 1,435,540; Nov. 14.
- Fuel control, Automatic. G. N. Blanchard. (Reissue.) No. 15,354; May 16.
- Fuel-control system. F. L. McGahan. No. 1,428,793; Sept. 12.
- Fuel, Device for effecting the combination of. A. Sauer. No. 1,430,327; Sept. 26.
- Fuel distributor. H. F. Smith. No. 1,425,145; Aug. 8.
- Fuel economizer. A. Johnson. No. 1,412,208; Apr. 11.
- Fuel economizer. T. Pitsanis. No. 1,439,575; Dec. 19.
- Fuel, Engine. M. C. Whitaker. No. 1,421,879; July 4.
- Fuel feed. E. T. Adams. No. 1,409,991; Mar. 21.
- Fuel-feed apparatus. W. J. Frisbie. No. 1,415,026; May 9.
- Fuel-feed device, Vacuum. J. C. Coulombe. No. 1,421,067; June 27.
- Fuel-feed device, Vacuum. E. Kumler. No. 1,409,455; Mar. 14.
- Fuel-feed system. F. E. Edwards. No. 1,415,162; May 9.
- Fuel-feed system. F. E. Edwards. No. 1,418,548; June 6.
- Fuel-feed system, Liquid-. E. R. Huntley. No. 1,410,013; Mar. 21.
- Fuel feeder and mixer, Pulverized-. H. I. Gentine. No. 1,419,730; June 13.
- Fuel feeding and drying apparatus. W. R. Wood. No. 1,432,509; Oct. 17.
- Fuel-feeding and suction-inducing device. J. C. Coulombe. No. 1,424,715; Aug. 1.
- Fuel-feeding apparatus. P. A. Kinzie. No. 1,424,486; Aug. 1.
- Fuel-feeding apparatus. E. M. Okins. No. 1,424,258; Aug. 1.
- Fuel-feeding device. W. L. Bickle. No. 1,436,568; Nov. 21.
- Fuel-feeding mechanism. A. B. Fahnstock. No. 1,415,927; May 16.
- Fuel-feeding mechanism. C. F. Miller and R. M. Allen. No. 1,414,746; May 2.
- Fuel-feeding mechanism. J. F. Rogers. No. 1,439,912; Dec. 26.
- Fuel-feeding system, Pulverized-. W. O. Amsler. No. 1,412,642; Apr. 11.
- Fuel-feeding system, Vacuum. W. O. Chase. No. 1,439,691; Dec. 26.
- Fuel for briquetting purposes, Treating. G. Komarek. No. 1,430,386; Sept. 26.
- Fuel, Forming. D. Markle. No. 1,407,700; Feb. 28.
- Fuel furnace, Liquid-. I. Pribble. No. 1,408,468; Mar. 7.
- Fuel, Gaseous. E. A. Charbonneau. No. 1,420,622; June 27.
- Fuel, Gaseous. J. R. Rose and J. Harris. Nos. 1,404,219-37; Jan. 24.
- Fuel heater. G. O. Olsen. No. 1,413,607; Apr. 25.
- Fuel heater. H. W. Roeling, E. H. Williams, and J. G. Bauer. No. 1,402,658; Jan. 3.
- Fuel, Hopper for use in feeding finely-divided. J. Fisher. No. 1,414,870; May 2.
- Fuel injector. S. A. Hasbrouck. No. 1,418,566; June 6.
- Fuel lifting and carbureting device. W. A. Edwards. No. 1,437,048; Nov. 28.
- Fuel, Liquid. A. A. Backhaus. No. 1,419,910; June 20.
- Fuel, Liquid. B. R. Tunison. No. 1,423,050; July 18.
- Fuel, Liquid. M. C. Whitaker. No. 1,405,809; Feb. 7.
- Fuel, Making motor. L. de Florez. No. 1,437,045; Nov. 28.
- Fuel, Manufacture of motor. C. M. Alexander. No. 1,407,619; Feb. 21.
- Fuel, Means for continuous predrying of. O. Nordström and A. Mörc. No. 1,423,728; July 25.
- Fuel, Means for preheating volatile. G. H. Woodhouse. No. 1,413,090; Apr. 18.
- Fuel mixer. F. N. Livingston. No. 1,406,398; Feb. 14.
- Fuel mixer. M. L. Packer. No. 1,420,277; June 20.
- Fuel mixer and ejector. C. T. McElvaney and W. H. Wilson. No. 1,430,912; Oct. 3.
- Fuel mixer, Gaseous-. E. C. Angel. No. 1,419,710; June 13.
- Fuel mixer, Proportional. G. W. McKee. No. 1,404,211; Jan. 24.
- Fuel mixer, Rotary. F. Funke. No. 1,424,244; Aug. 1.
- Fuel-mixing device. W. D. M. Howard. No. 1,413,227; Apr. 18.
- Fuel, Motor. A. S. Ramage. No. 1,409,404; Mar. 14.
- Fuel, Motor. F. W. Rohrs. No. 1,425,136; Aug. 8.
- Fuel, Motor. E. W. Stevens. No. 1,414,759; May 2.
- Fuel of liquid type. B. R. Tunison. No. 1,423,049; July 18.
- Fuel-oil burner. D. J. Dorsey. No. 1,410,389; Mar. 21.
- Fuel-oil burner. A. J. Fuetter. No. 1,417,819; May 30.
- Fuel-oil burner. F. Hardinge. No. 1,403,952; Jan. 17.
- Fuel-oil burner. W. M. Hoffman. No. 1,419,380; June 13.
- Fuel-oil burner. J. P. Svanda. No. 1,402,268; Jan. 3.
- Fuel pressure-feed system. L. R. Buckendale. No. 1,407,374; Feb. 21.
- Fuel, Producing liquid. W. T. Schreiber. No. 1,405,806; Feb. 7.
- Fuel product and making same. C. J. Greenstreet. No. 1,431,225; Oct. 10.
- Fuel-regulating system. R. H. Irving. No. 1,407,422; Feb. 21.
- Fuel-reserve-supply system. C. F. Green and H. W. Lindsey, Jr. No. 1,419,373; June 13.
- Fuel-reserve-supply system. H. W. Lindsey, Jr. No. 1,410,104; Mar. 21.
- Fuel-reserve-supply system. J. G. O'Brien and F. A. Picard. No. 1,409,310; Mar. 14.
- Fuel saver. A. Oschmann. No. 1,415,607; May 9.
- Fuel saver, Automatic. C. A. Norall. No. 1,432,610; Oct. 17.
- Fuel-supply device. C. F. Kettering. No. 1,410,682; Mar. 28.
- Fuel-supply system. C. F. Kettering. No. 1,404,152; Jan. 17.
- Fuel-supply system. F. R. Porter. No. 1,437,861; Dec. 5.
- Fuel-supply tank. P. J. Garrison. No. 1,411,010; Mar. 28.
- Fuel tank. T. Midgley, Jr. No. 1,424,369; Aug. 1.
- Fuel tank. V. W. Page. No. 1,419,896; June 13.
- Fuel tank. S. Slisman. No. 1,437,823; Dec. 5.
- Fuel tanks, Attachment for. J. J. Metheny. No. 1,432,714; Oct. 17.
- Fuel tanks, Reserve provider for. J. J. Richards, Jr. No. 1,432,259; Oct. 17.
- Fuel tanks, Reserve-supply valve for liquid-. J. J. Sullivan. No. 1,413,069; Apr. 18.
- Fuel, Treating pulverized. R. E. H. Pomeroy. No. 1,423,150; July 18.
- Fuel vaporizer. W. H. Hill. No. 1,436,100; Nov. 21.
- Fuel vaporizer. F. R. Perry. Nos. 1,431,326-7; Oct. 10.
- Fuel vaporizing and economizing apparatus. C. V. Stevenson. No. 1,421,606; July 4.
- Fuels, Burner for gaseous and liquid. H. Nettgens. No. 1,415,383; May 9.
- Fuels, Burning liquid. A. Doble. No. 1,402,747; Jan. 10.
- Fuels, Carbureting liquid. O. P. Amend. No. 1,423,064; July 18.
- Fuels, Plant for utilizing pulverized solid. A. Assereto and L. Caccioppoli. No. 1,420,904; June 27.
- Fuels, Producing liquid. W. T. Schreiber. No. 1,405,805; Feb. 7.
- Fulcrum and making same, Reversible. A. H. Peycke. No. 1,405,801; Feb. 7.

Alphabetical list of inventions—Continued.

- Fulcrum and making the same. C. E. Bauer. No. 1,426,705; Aug. 22.
 Fulcrum and making the same. C. E. Bauer. No. 1,427,932; Sept. 5.
 Fulcrum and producing same, Brake-beam. C. E. Bauer. No. 1,402,392; Jan. 3.
 Fulcrum arrangement, Reversible. W. C. Hedgcock. No. 1,425,649; Aug. 15.
 Fulcrum arrangement, Reversible. W. C. Hedgcock. No. 1,434,820; Nov. 7.
 Fulcrum arrangement, Reversible. A. Sparrow. No. 1,425,064; Aug. 8.
 Fulcrum construction, Reversible. W. C. Hedgcock. No. 1,434,818; Nov. 7.
 Fulcrum means, Reversible. W. C. Hedgcock. No. 1,425,651; Aug. 15.
 Fulcrum mechanism. W. C. Hedgcock. No. 1,426,074; Aug. 15.
 Fulcrum mechanism, Reversible. W. C. Hedgcock. No. 1,425,650; Aug. 15.
 Fulcrum mechanism, Reversible. W. C. Hedgcock. No. 1,436,801; Nov. 28.
 Fulcrum, Reversible. W. C. Hedgcock. No. 1,434,817; Nov. 7.
 Fulcrum, Reversible. W. C. Hedgcock. Nos. 1,439,704-5; Dec. 26.
 Fulcrum, Reversible. A. H. Peycke. No. 1,418,734; June 6.
 Fulcrum structure, Reversible. W. C. Hedgcock. No. 1,426,075; Aug. 15.
 Fulcrums, Making reversible. A. H. Peycke. No. 1,407,886; Feb. 28.
 Full-stroke mechanism, Frictionally-operated. H. Enders. No. 1,414,728; May 2.
 Fuller ball. P. Mueller. No. 1,413,764; Apr. 25.
 Fume-control device. V. K. Boynton. No. 1,414,722; May 2.
 Fume generator. R. A. Phelan and H. A. Weguelin. No. 1,405,802; Feb. 7.
 Fumigating apparatus. S. Bateman. No. 1,426,536; Aug. 22.
 Fumigator. A. W. Clark. No. 1,413,321; Apr. 18.
 Fumigator, Iodine. W. L. Capell. No. 1,427,515; Aug. 29.
 Funnel. C. Breiel. No. 1,405,266; Jan. 31.
 Funnel. J. E. Jones and F. C. Newton. No. 1,425,100; Aug. 8.
 Funnel. W. R. Libert. No. 1,411,284; Apr. 4.
 Funnel, Collapsible. S. S. Cowell. No. 1,408,865; Mar. 7.
 Funnel, Fruit. M. L. Little. No. 1,416,101; May 16.
 Furnace: See—
 Annealing furnace. Metallurgical furnace.
 Automatic furnace. Muffle furnace.
 Blast furnace. Oil and gas furnace.
 Blowtorch furnace. Oil-burning furnace.
 Boiler furnace. Ore-treating furnace.
 Charcoal furnace. L'air furnace.
 Copper-coating furnace. Pipeless furnace.
 Cremation furnace. Plumber's furnace.
 Crucible furnace. Portable furnace.
 Cupola furnace. Pulverized-fuel furnace.
 Dental furnace. Recuperative furnace.
 Downward-draft furnace. Regenerative furnace.
 Electric furnace. Retort furnace.
 Electric induction furnace. Reverberating furnace.
 Electric reverberatory furnace. Reverberatory furnace.
 Electrical furnace. Sherardizing furnace.
 Electrically-heated furnace. Smelting furnace.
 Electrode furnace. Steam boiler with forced-draft furnace.
 Floor furnace. Stoker furnace.
 Gas furnace. Stove and furnace.
 Grate furnace. Sulphur-combustion furnace.
 Heat-treating furnace. Tilting furnace.
 Hot-air furnace. Tool-tempering furnace.
 Incinerating furnace. Underfeed furnace.
 Induction furnace. Warm-air furnace.
 Kiln furnace. Wash furnace.
 Liquid-fuel furnace.
 Melting furnace.
 Furnace. D. S. Barrows. No. 1,416,438; May 16.
 Furnace. A. H. Blackburn. No. 1,404,568; Jan. 24.
 Furnace. W. K. Booth. No. 1,418,773; June 6.
 Furnace. A. A. Bruder. No. 1,419,011; June 6.
 Furnace. E. J. Chaszar. No. 1,435,955; Nov. 21.
 Furnace. R. Cloutier. No. 1,437,167; Nov. 28.
 Furnace. E. P. Cole. No. 1,405,187; Jan. 31.
 Furnace. H. A. Cole. No. 1,402,743; Jan. 10.
 Furnace. G. M. Crossen. No. 1,436,437; Nov. 21.
 Furnace. T. S. Curtis. No. 1,405,762; Feb. 7.
 Furnace. A. A. Gabriel. No. 1,440,071; Dec. 26.
 Furnace. J. A. Gaskill. No. 1,417,478; May 23.
 Furnace. G. H. Gibson. No. 1,417,374; May 23.
 Furnace. H. R. Griffiths. No. 1,433,452; Oct. 24.
 Furnace. J. Harrington. No. 1,402,419; Jan. 3.
 Furnace. N. M. Hartzell. No. 1,414,276; Apr. 25.
 Furnace. L. C. Harvey. No. 1,416,406; May 16.
 Furnace. J. H. Hedmark. No. 1,432,178; Apr. 11.
 Furnace. G. P. Jackson. No. 1,437,182; Nov. 28.
 Furnace. H. Johnson. No. 1,417,829; May 30.
 Furnace. J. D. Keillor. No. 1,439,003; Dec. 19.
 Furnace. R. Marx. No. 1,420,204; June 20.
 Furnace. D. J. McNeerney. No. 1,428,488; Sept. 5.
 Furnace. W. L. Mersfelder. No. 1,416,111; May 16.
 Furnace. R. P. Moodie. No. 1,417,095; May 23.
 Furnace. C. N. Morrison. No. 1,411,450; Apr. 4.
 Furnace. C. D. Mosher. No. 1,410,708; Mar. 28.
 Furnace. C. D. Mosher. No. 1,420,441; June 20.
 Furnace. P. Murphy. No. 1,415,107; May 9.
 Furnace. A. Nilson. No. 1,434,140; Oct. 31.
 Furnace. W. F. Payne. No. 1,423,145; July 18.
 Furnace. T. A. Peebles. (Reissue.) No. 15,399; July 4.
 Furnace. G. L. Perrine. No. 1,416,055; May 16.
 Furnace. P. L. Pfanenschmidt. No. 1,413,932; Apr. 25.
 Furnace. R. W. L. Phillips and J. R. Blaikie. No. 1,435,621; Nov. 14.
 Furnace. A. Smallwood. No. 1,403,202; Jan. 10.
 Furnace. A. Smallwood. No. 1,421,852; July 4.
 Furnace. H. F. Smith. No. 1,416,990; May 23.
 Furnace. L. S. Spallone. No. 1,436,297; Nov. 21.
 Furnace. N. W. Taplin. No. 1,438,469; Dec. 12.
 Furnace. J. Van Brunt. No. 1,423,251; July 18.
 Furnace. H. G. Weidenthal. No. 1,410,086; Mar. 21.
 Furnace. F. H. Wolkenhauer. No. 1,410,049; Mar. 21.
 Furnace. G. T. Wyatt. No. 1,440,327; Dec. 26.
 Furnace. C. Zulver and L. E. Smith. No. 1,402,703; Jan. 3.
 Furnace and blowtorch, Gas. G. Clements. No. 1,431,633; Oct. 10.
 Furnace and force draft for the same, Grateless. A. I. Thomas. No. 1,410,141; Mar. 21.
 Furnace and method, Heat-treating. C. J. Kirk. No. 1,418,446; June 6.
 Furnace arch. F. H. Waite. 1,436,923; Nov. 28.
 Furnace attachment. W. H. Kurtz. No. 1,427,483; Aug. 29.
 Furnace attachment. C. D. Mosher. No. 1,433,903; Oct. 31.
 Furnace-bridge wall construction. F. A. Hurlbut. No. 1,428,636; Sept. 12.
 Furnace casing and front. H. L. Wood. No. 1,410,789; Mar. 28.
 Furnace-casing top. E. Kreutzberg and F. Moulton. No. 1,406,875; Feb. 14.
 Furnace-charging apparatus, Blast-. T. McDonald. No. 1,433,633; Oct. 31.
 Furnace-charging device. W. E. Moore. No. 1,430,397; Sept. 26.
 Furnace, Combination double-muffle preheating and heat-treating. J. A. Gaskill. No. 1,403,313; Jan. 10.
 Furnace construction. J. Farris. No. 1,410,664; Mar. 28.
 Furnace construction. W. G. Wise. No. 1,422,160; July 11.
 Furnace construction. H. L. Wood. No. 1,412,989; Apr. 18.
 Furnace construction, Electric-. W. E. F. Bradley. No. 1,427,436; Aug. 29.
 Furnace control mechanism. C. R. Abbott. No. 1,428,516; Sept. 12.
 Furnace covers, Seat for pit-. J. D. Adams. No. 1,432,737; Oct. 24.
 Furnace-door frame. J. Thornton. No. 1,407,708; Feb. 28.
 Furnace-door mechanism. P. Capozza. No. 1,410,887; Mar. 28.
 Furnace-door pedal. L. Schaumburger and H. H. Clark. No. 1,429,108; Sept. 12.
 Furnace draft controller. H. M. Browne. No. 1,405,749; Feb. 7.
 Furnace, Electric H. G. Weidenthal. (Reissue.) No. 15,378; June 6.
 Furnace-flue closure. W. E. F. Bradley. No. 1,411,157; Mar. 28.
 Furnace for burning pulverized fuel. T. Donaldson. No. 1,411,846; Apr. 4.
 Furnace for hardening or tempering steel tools or for heating or annealing metals, glass, pottery, or the like. J. R. C. August. No. 1,432,946; Oct. 24.
 Furnace for producing chemical changes. A. M. Duckham. No. 1,436,582; Nov. 21.
 Furnace for the destruction of house and garden refuse. G. Watson. No. 1,433,438; Oct. 24.
 Furnace for the heat treatment of metals. L. C. Josephs, jr., and G. Wirrer. No. 1,425,660; Aug. 15.
 Furnace front. C. W. Hume. No. 1,402,362; Jan. 3.
 Furnace front. J. H. Hume. No. 1,425,095; Aug. 8.
 Furnace fronts, Cooling system for open. E. J. Russell. No. 1,411,186; Mar. 28.
 Furnace grate. J. Murdo. No. 1,413,286; Apr. 18.
 Furnace grate. J. Van Brunt. No. 1,435,948; Nov. 21.
 Furnace grate bar. J. Van Brunt. No. 1,409,205; Mar. 14.
 Furnace grates of the checkerboard type, Tile for. C. V. Turner. No. 1,437,328; Nov. 28.
 Furnace, Hardening and annealing. B. M. Walpole. No. 1,412,152; Apr. 11.
 Furnace, Hot-air. D. A. Brunett. (Reissue.) No. 15,372; June 6.
 Furnace humidifier. C. McVeety. No. 1,438,318; Dec. 12.
 Furnace, kiln, or the like. A. Bigot. No. 1,404,427; Jan. 24.
 Furnace linings, Preparing. M. Unger. No. 1,429,909; Sept. 19.
 Furnace linings, Preserving electric-. H. C. Sicard. No. 1,416,584; May 16.
 Furnace pipe. H. A. Acer. No. 1,429,822; Sept. 19.
 Furnace platform, Electric-. H. F. Priwer. No. 1,436,723; Nov. 28.
 Furnace port. W. C. Frank. No. 1,439,360; Dec. 19.

- Furnace-regulator construction. T. Olinger. No. 1,407,802; Feb. 28.
- Furnace retort. C. H. Smith and E. B. Edwards. No. 1,417,113; May 23.
- Furnace retort and discharge mechanism therefor. C. H. Smith. No. 1,409,599; Mar. 14.
- Furnace retort, Carbonizing. C. H. Smith. Nos. 1,409,597-8; Mar. 14.
- Furnace structure. W. H. Dixon. No. 1,404,744; Jan. 31.
- Furnaces, Adjustable-air-shutter construction for. L. Budd. No. 1,407,516; Feb. 21.
- Furnaces, Air filter for hot-air. D. Handelan. No. 1,402,601; Jan. 3.
- Furnaces, Air heater for. W. F. Keenan, Jr. No. 1,421,247; June 27.
- Furnaces, Air-inlet-control means for. W. G. Carrico. No. 1,418,776; June 6.
- Furnaces, Air-preheating device for. H. R. Brunner. No. 1,430,936; Oct. 3.
- Furnaces and cupolas, Drilling machine for tapping out hot metal of. J. E. Judy. No. 1,424,483; Aug. 1.
- Furnaces and flues, Device for inspecting combustion in. J. G. W. Hintze. No. 1,410,181; Mar. 21.
- Furnaces, Apparatus for controlling the draft on. J. W. Drake. No. 1,414,631; May 2.
- Furnaces, Apparatus for feeding fuel to. V. Karycheff and P. E. Gagarine. No. 1,422,867; July 13.
- Furnaces, Ash-discharge device for. H. Stepmann. No. 1,405,029; Jan. 31.
- Furnaces, Automatic air circulator for heating. H. W. Neal. No. 1,426,900; Aug. 22.
- Furnaces, Automatic control of electrical. T. E. Niblock. No. 1,430,104; Sept. 26.
- Furnaces, Automatic fan system for hot-air. N. B. Wales. No. 1,424,958; Aug. 8.
- Furnaces, Automatic regulation for boiler. W. J. Manhire. No. 1,415,940; May 16.
- Furnaces, Automatic stoker construction for. F. H. C. Coppus. No. 1,405,189; Jan. 31.
- Furnaces, Baffle device for puddling. E. L. Ford. No. 1,433,195; Oct. 24.
- Furnaces, etc., Combustion-controlling device for. D. F. Morton. No. 1,402,083; Jan. 3.
- Furnaces, Conductor for electric. K. C. Randall and H. A. Travers. No. 1,435,256; Nov. 14.
- Furnaces, Controlling device for boiler. R. F. Metcalfe. No. 1,422,369; July 11.
- Furnaces, Conveying apparatus for annealing. G. W. and G. M. Lange. No. 1,420,115; June 20.
- Furnaces, Deflecting damper for pipeless. J. A. Tarte. No. 1,418,988; June 6.
- Furnaces, Draft regulator for. C. R. McCollum. No. 1,434,902; Nov. 7.
- Furnaces, Draft regulator for. N. W. Van Husen. No. 1,406,305; Feb. 14.
- Furnaces, Drying fuel supplied to. W. R. Wood. No. 1,427,045; Aug. 22.
- Furnaces, Fine-fuel-feeding means for. B. G. Griggs and W. E. O'Brien. No. 1,437,342; Nov. 28.
- Furnaces, Fire-brick structure for. T. Matson. No. 1,436,279; Nov. 21.
- Furnaces, Front wall for open-hearth. J. O. Griggs. No. 1,415,630; May 9.
- Furnaces, Fuel-saving attachment for. C. A. Ryerson. No. 1,408,536; Mar. 7.
- Furnaces, Fuel-saving attachment for. C. A. Ryerson. No. 1,438,611; Dec. 12.
- Furnaces, Gas and air mixer for glass. E. Majot. No. 1,438,842; Dec. 12.
- Furnaces, Gas burner for. C. L. Sharp. No. 1,422,891; July 18.
- Furnaces, Gas heater for. F. C. Baluss. No. 1,405,386; Feb. 7.
- Furnaces, Gas heater for hot-air. G. W. Turner. No. 1,436,300; Nov. 21.
- Furnaces, Grate for stoker. J. S. Skelly. No. 1,438,190; Dec. 12.
- Furnaces, Liquid-cooled conduit for. H. A. Poppenhusen. No. 1,423,540; July 25.
- Furnaces, Machine for charging sheet and tin-plate bars into. T. V. Allis. No. 1,402,036; Jan. 3.
- Furnaces, Means for feeding goods into and removing goods from annealing and other. M. Van Marle. No. 1,402,551; Jan. 3.
- Furnaces, Method and apparatus for firing. C. A. Kellogg. No. 1,402,773; Jan. 10.
- Furnaces, Method of and means for reducing ores in electric blast. E. Fornander. No. 1,430,971; Oct. 3.
- Furnaces, Moistener for hot-air flues for hot-air. P. J. A. Schnoor. No. 1,408,404; Feb. 28.
- Furnaces, Observation window for. M. Curry and S. H. Barnum. No. 1,417,976; May 30.
- Furnaces, Operating. H. E. Yarrow. No. 1,427,046; Aug. 22.
- Furnaces, Operating electric. I. Rennerfelt. No. 1,428,910; Sept. 12.
- Furnaces, Premelting scrap for open-hearth. C. B. Johnson. No. 1,439,961; Dec. 26.
- Furnaces, Refractory cover for electric. M. S. Clawson. No. 1,410,654; Mar. 28.
- Furnaces, Regenerator for smelting. P. Kühn. No. 1,421,259; June 27.
- Furnaces, Reversing apparatus for heating. G. H. Isley. No. 1,408,946; Mar. 7.
- Furnaces, Roof construction for reverberatory. A. N. Jette. No. 1,416,716; May 23.
- Furnaces, Rotary apparatus for removing material to be dumped from. G. Schwabach. No. 1,427,026; Aug. 22.
- Furnaces, Skimming means for tank. H. J. Travis. No. 1,410,782; Mar. 28.
- Furnaces, Stationary grate for. H. Goeltz. No. 1,413,400; Apr. 18.
- Furnaces, Supporting apparatus for use in tempering. G. M. Eaton. No. 1,416,006; May 16.
- Furnaces, Tilting mechanism for. J. R. Wyatt. No. 1,432,007; Oct. 17.
- Furnaces, Trash-feed attachment for. L. V. Kent. No. 1,435,070; Nov. 7.
- Furnaces, Wind bung for melting. D. S. Barrows. No. 1,416,439; May 16.
- Furnaces with powdered fuel, Apparatus for firing. J. J. C. Brand. No. 1,432,317; Oct. 17.
- Furniture. A. G. Girard. No. 1,407,405; Feb. 21.
- Furniture. J. Howson. No. 1,411,660; Apr. 4.
- Furniture. D. M. Rosenthal. No. 1,412,895; Apr. 18.
- Furniture. M. Skolnik. No. 1,436,057; Nov. 21.
- Furniture, Article of. B. A. Kaszinski. No. 1,405,420; Feb. 7.
- Furniture, Article of. W. L. Shepherdson. No. 1,419,647.
- Furniture attachment. J. P. Horn. No. 1,430,997; Oct. 3.
- Furniture, Camping. C. R. Fetterman. No. 1,407,463; Feb. 21.
- Furniture, Caster for cylindrical rail. W. F. Herold. No. 1,436,302; Nov. 28.
- Furniture, Combination. R. Coopersmith. No. 1,426,463; Aug. 22.
- Furniture, Combination. N. J. Greeniscn. No. 1,427,588; Aug. 29.
- Furniture, Combination. J. A. Scanlan. No. 1,402,542; Jan. 3.
- Furniture, Combination. R. L. Smith. No. 1,437,782; Dec. 5.
- Furniture, Combination article of. F. C. Hall. No. 1,416,018; May 16.
- Furniture, Convertible. C. E. James and W. E. Smith. No. 1,413,279; Apr. 18.
- Furniture, Convertible. S. Katz. No. 1,430,740; Oct. 3.
- Furniture, Convertible. L. W. Miller. No. 1,419,465; June 13.
- Furniture, Convertible automobile. C. D. Moore. No. 1,408,708; Mar. 7.
- Furniture, Corner joint for folding. R. Wedemann. No. 1,408,553; Mar. 7.
- Furniture, Device for use in connection with movable. P. F. Williams. No. 1,433,922; Oct. 31.
- Furniture drawer. W. F. Sherer. No. 1,410,769; Mar. 28.
- Furniture, Expansion device for. H. E. Schneider. No. 1,407,582; Feb. 21.
- Furniture fittings. E. A. Graham and A. C. Brockies. No. 1,435,060; Nov. 7.
- Furniture fixture. L. Keachler. No. 1,427,958; Sept. 5.
- Furniture, In-a-wall. J. P. Prost. No. 1,428,707; Sept. 12.
- Furniture, Leg attachment for. R. H. Lewis. No. 1,440,158; Dec. 26.
- Furniture-leveling device. F. E. Henry. No. 1,435,006; Nov. 14.
- Furniture, Metallic. M. O. Shriner. No. 1,427,861; Sept. 5.
- Furniture, Reed. J. J. Croft. No. 1,427,581; Aug. 29.
- Furniture, Sectional. E. Morris. No. 1,434,220; Oct. 31.
- Furniture, Sectional lighting. A. J. Sweet. No. 1,438,344; Dec. 12.
- Furniture, Self-leveling. C. Lenardic. No. 1,414,291; Apr. 25.
- Furniture spring. F. W. Morse. No. 1,430,248; Sept. 26.
- Furniture structure. R. S. Monger. No. 1,402,432; Jan. 3.
- Furniture with multiple combinations, Demountable article of. E. G. Leconte. No. 1,431,823; Oct. 10.
- Furrow opener or drill tooth. A. E. Nightingale. No. 1,431,247; Oct. 10.
- Furrow-opening apparatus. V. and J. Ruszczak. No. 1,404,795; Jan. 31.
- Fuse. D. F. Asbury. No. 1,428,203; Sept. 5.
- Fuse. H. H. Baker. No. 1,405,254; Jan. 31.
- Fuse. H. H. Baker. No. 1,406,434; Feb. 14.
- Fuse. H. H. Baker. No. 1,421,876; July 4.
- Fuse. C. M. Daly. No. 1,436,239; Nov. 21.
- Fuse. A. L. Eustice. No. 1,411,332; Apr. 4.
- Fuse. W. J. Hawkins. No. 1,418,710; June 6.
- Fuse. P. M. Hengstenberg. No. 1,404,858; Jan. 31.
- Fuse. F. H. Miller. No. 1,438,606; Dec. 12.
- Fuse. F. H. Miller and J. H. Proctor. No. 1,438,607; Dec. 12.
- Fuse. T. E., Jr., and J. B. Murray. No. 1,435,651; Nov. 14.
- Fuse. J. A. Nelson. No. 1,422,122; July 11.
- Fuse. T. S. Perkins. No. 1,438,609; Dec. 12.
- Fuse. G. R. Rohn. No. 1,404,322; Jan. 24.
- Fuse-cap protector. H. F. Mitzel. No. 1,416,856; May 23.
- Fuse carrier. F. M. Burton. No. 1,405,271; Jan. 31.
- Fuse cartridge. J. B. Glowacki. No. 1,435,155; Nov. 14.
- Fuse device. J. P. Mentzer. No. 1,405,533; Feb. 7.
- Fuse, Electric. E. N. Conant. No. 1,439,870; Dec. 26.
- Fuse, Electric. E. Parradee. No. 1,410,835; Mar. 28.
- Fuse, Electric safety. R. C. Cole. No. 1,407,785; Feb. 28.

Alphabetical list of inventions—Continued.

- Fuse, Electrical. P. J. Smith. No. 1,419,114; June 6.
 Fuse, Emplacing and removing implement. H. B. Bush. No. 1,422,830; July 18.
 Fuse for electric irons. W. H. Fayle and W. G. Crowle. No. 1,416,008; May 16.
 Fuse-gripping device. H. B. Bush. No. 1,430,053; Sept. 26.
 Fuse head and manufacturing same, Electrical. C. C. Jessen. No. 1,407,157; Feb. 21.
 Fuse holder. G. F. Kohn. No. 1,404,323; Jan. 24.
 Fuse, Impact. S. G. Malby. No. 1,424,112; July 25.
 Fuse implement, Blasting. H. Prince. No. 1,431,421; Oct. 10.
 Fuse, Inclosed. A. L. Eustice. No. 1,419,724; June 13.
 Fuse links, Making. A. L. Eustice. No. 1,426,827; Aug. 22.
 Fuse-mounting device. G. B. Wadsworth. No. 1,402,123; Jan. 3.
 Fuse, Percussion. E. J. T. Wennerström. No. 1,440,191; Dec. 26.
 Fuse plug. R. B. Benjamin. No. 1,427,895; Sept. 5.
 Fuse plug. F. W. Boyd. No. 1,416,602; May 16.
 Fuse plug. T. F. Côté. No. 1,424,714; Aug. 1.
 Fuse plug. H. N. Davis. No. 1,414,864; May 2.
 Fuse plug. W. S. MacLewes. No. 1,410,695; Mar. 28.
 Fuse plug. B. L. Moss and J. Schury. No. 1,437,905; Dec. 5.
 Fuse plug, Magazine. P. M. Carmichael. No. 1,426,040; Aug. 15.
 Fuse plug, Multiple. B. L. Moss and J. Schury. No. 1,437,906; Dec. 5.
 Fuse-plug puller. C. W. Carlson. No. 1,410,888; Mar. 28.
 Fuse plug, Refillable. E. H. Baxter. No. 1,407,117; Feb. 21.
 Fuse plug, Renewable. N. Bohlin and S. Forner. No. 1,429,672; Sept. 19.
 Fuse puller. G. F. Rohn. No. 1,404,324; Jan. 24.
 Fuse, Refillable. S. W. Farnsworth. No. 1,431,940; Oct. 17.
 Fuse, Refillable. G. H. Gors. No. 1,404,114; Jan. 17.
 Fuse, Refillable. J. H. Procter and M. J. Sandin. No. 1,425,692; Aug. 15.
 Fuse, Refillable. M. J. Sandin. No. 1,425,699; Aug. 15.
 Fuse, Refillable electric. G. H. Drabenstott. No. 1,429,938; Sept. 26.
 Fuse, Refillable multiple. O. Gravenhorst and L. Hüllrigl. No. 1,405,778; Feb. 7.
 Fuse, Renewable. W. A. Brunelle. No. 1,414,977; May 2.
 Fuse, Renewable. G. A. Burnham. No. 1,404,576; Jan. 24.
 Fuse, Renewable. F. N. Conant. Nos. 1,422,419-20; July 11.
 Fuse, Renewable. J. L. Fay. No. 1,428,768; Sept. 12.
 Fuse, Renewable. H. Goodwin. No. 1,405,682; Feb. 7.
 Fuse, Renewable. I. Marcus. No. 1,435,317; Nov. 14.
 Fuse, Renewable. R. J. McLean, jr. No. 1,439,830; Dec. 26.
 Fuse, Renewable. W. O. Smith. No. 1,436,919; Nov. 28.
 Fuse, Renewable. W. O. Smith and J. E. Grenache. No. 1,407,706; Feb. 28.
 Fuse, Renewable. M. J. West. No. 1,411,946; Apr. 4.
 Fuse, Renewable cartridge. T. A. Both. No. 1,417,966; May 30.
 Fuse, Self-renewing. S. H. Brooks. No. 1,416,258; May 16.
 Fuse, Shell. O. D. Lucas. No. 1,415,593; May 9.
 Fuse, Supersensitive. C. G. Young. No. 1,420,300; June 20.
 Fuses, Indicator for renewable. M. J. West. No. 1,421,051; June 27.
 Fusing implement, Electrically-heated. E. W. Putnam. No. 1,415,479; May 9.
 Fusee, Time burning railway signal. F. Dutcher. No. 1,430,959; Oct. 3.
 Gaff hook. J. Hanson. No. 1,404,117; Jan. 17.
 Galley, One-piece metallic. H. W. Bolens. No. 1,420,363; June 20.
 Galvanometer. C. F. Hindle. No. 1,416,824; May 23.
 Game. J. B. Abele. No. 1,421,656; July 4.
 Game. H. E. Ankener and L. A. Demarco. No. 1,405,705; Feb. 7.
 Game. W. W. Ayre. No. 1,420,400; June 20.
 Game. T. P. Barrett. No. 1,408,065; Feb. 28.
 Game. L. B. Beresford. No. 1,433,336; Oct. 24.
 Game. G. V. Clink. No. 1,439,946; Dec. 26.
 Game. V. E. Erwin. No. 1,405,988; Feb. 7.
 Game. J. W. Fischer. No. 1,425,464; Aug. 8.
 Game. R. E. Flajshans. No. 1,404,108; Jan. 17.
 Game. F. H. Haines and E. B. Parsons. No. 1,425,087; Aug. 8.
 Game. J. W. Hall. No. 1,407,027; Feb. 21.
 Game. T. H. Johnson. No. 1,427,156; Aug. 29.
 Game. A. E. Kaiser. No. 1,436,962; Nov. 28.
 Game. F. A. Koelle, Jr. No. 1,408,952; Mar. 7.
 Game. E. H. Lederer. No. 1,417,336; May 23.
 Game. J. E. Mann. No. 1,411,574; Apr. 4.
 Game. G. Miller. No. 1,402,637; Jan. 3.
 Game. W. E. Olson. No. 1,430,838; Oct. 3.
 Game. G. S. Parker. No. 1,428,054; Sept. 5.
 Game. C. M. Philo and F. O. Bowers. No. 1,419,074; June 6.
 Game. C. C. Roberts. No. 1,436,909; Nov. 28.
 Game. A. E. D. B. Rod. No. 1,421,570; July 4.
 Game. H. B. Rose. No. 1,407,223; Feb. 21.
 Game. F. A. Schaeetzke. No. 1,416,068; May 16.
 Game. E. F. Schmidt. No. 1,421,575; July 4.
 Game. A. H. Sebastian. No. 1,437,202; Nov. 28.
 Game. R. Sewell. No. 1,406,691; Feb. 14.
 Game. C. F. Staudenmayer. No. 1,410,618; Mar. 28.
 Game. T. J. Sylvester. No. 1,418,214; May 30.
 Game. C. Taketoshi. No. 1,433,919; Oct. 31.
 Game. F. Tenney. No. 1,427,135; Aug. 29.
 Game. G. W. Wakeham. No. 1,433,437; Oct. 24.
 Game. H. E. Wenrich. No. 1,414,106; Apr. 25.
 Game, Amusement. T. H. Pope. No. 1,416,506; May 16.
 Game apparatus. L. M. Adams. No. 1,420,230; June 20.
 Game apparatus. A. Alexander. No. 1,416,593; May 16.
 Game apparatus. W. E. Blackburn. No. 1,432,830; Oct. 24.
 Game apparatus. F. P. Cawley. No. 1,403,967; Feb. 7.
 Game apparatus. L. M. Derby. No. 1,412,204; Apr. 11.
 Game apparatus. R. Diehl. No. 1,439,616; Dec. 19.
 Game apparatus. A. Dunhill. No. 1,431,879; Oct. 10.
 Game apparatus. E. W. Ford. No. 1,425,376; Aug. 8.
 Game apparatus. F. W. Ganse. No. 1,419,554; June 13.
 Game apparatus. C. W. Hamel. No. 1,411,723; Apr. 4.
 Game apparatus. J. Hampson. No. 1,428,482; Sept. 5.
 Game apparatus. H. P. Harsha. No. 1,416,556; May 16.
 Game apparatus. F. T. H. D. Krauth. No. 1,427,482; Aug. 29.
 Game apparatus. L. La Borie. No. 1,413,481; Apr. 18.
 Game apparatus. C. J. H. Miller. No. 1,406,473; Feb. 14.
 Game apparatus. P. D. Riordan. No. 1,409,029; Mar. 7.
 Game apparatus. W. Roth. No. 1,415,267; May 9.
 Game apparatus. R. S. Terry. No. 1,425,617; Aug. 15.
 Game apparatus. F. T. Wakefield. No. 1,418,409; June 6.
 Game apparatus. C. Weslow. No. 1,403,214; Jan. 10.
 Game apparatus, Batting device for baseball. A. W. Weeden. No. 1,416,918; May 23.
 Game apparatus, Football. C. H. Wilkins. No. 1,412,987; Apr. 18.
 Game apparatus, Mechanical race. C. F. Bigmore. No. 1,436,935; Nov. 28.
 Game apparatus, Race. J. D. Holm. No. 1,402,423; Jan. 3.
 Game, Appliance for playing an indoor or outdoor. W. M. Short. No. 1,404,149; Jan. 17.
 Game, Arithmetical. H. Verneau. No. 1,403,989; Jan. 17.
 Game, Ball. J. F. Smiley. No. 1,409,033; Mar. 7.
 Game, Baseball. A. M. Bell. No. 1,435,688; Nov. 14.
 Game, Baseball. S. F. Hines. No. 1,417,063; May 23.
 Game, Baseball. A. L. Pepper. No. 1,412,960; Apr. 18.
 Game, Basketball. H. L. Post. No. 1,407,215; Feb. 21.
 Game board. A. J. Barber. No. 1,428,411; Sept. 5.
 Game board. J. R. Donnelly. No. 1,422,042; July 4.
 Game board. J. Maher. No. 1,416,107; May 16.
 Game board. M. C. Neuner. No. 1,420,334; June 20.
 Game board. F. W. Popp and S. B. Clark. No. 1,426,599; Aug. 22.
 Game board. W. E. Williams. No. 1,430,778; Oct. 3.
 Game board and game. R. G. Ebert. No. 1,421,678; July 4.
 Game boards, Catapult for. L. Grasso. No. 1,403,402; Jan. 10.
 Game, Card. L. Crossland. No. 1,415,019; May 9.
 Game, Card. I. T. Smith. No. 1,409,035; Mar. 7.
 Game, Card. J. H. Tiennen. No. 1,426,928; Aug. 22.
 Game, Child's racing. I. Paris. No. 1,406,484; Feb. 14.
 Game counter. D. McDonald. No. 1,419,871; June 13.
 Game device. L. F. Ryan. No. 1,402,799; Jan. 10.
 Game device. H. J. Schumacher and F. Rice. No. 1,422,383; July 11.
 Game, Educational. B. M. Estes. No. 1,439,359; Dec. 19.
 Game, Educational. J. R. Williams. No. 1,414,849; May 2.
 Game, Golf. C. Orr. No. 1,403,345; Jan. 10.
 Game, Mathematical. A. Tegtmeyer and L. Schneider. No. 1,402,807; Jan. 10.
 Game of nine. J. H. Fitzpatrick. No. 1,405,195; Jan. 31.
 Game of skill. R. W. Hood. No. 1,430,903; Oct. 3.
 Game of skill. J. Irsch. No. 1,433,888; Oct. 31.
 Game of skill. J. Keckeis. No. 1,415,364; May 9.
 Game of skill, Apparatus or appliance for use in playing a. C. F. Glenny. No. 1,404,599; Jan. 24.
 Game or puzzle. H. L. Post. No. 1,425,793; Aug. 15.
 Game or toy. M. L. Greenstreet and F. G. Roedell. No. 1,402,596; Jan. 3.
 Game, Phonograph. C. H. Maier. No. 1,437,472; Dec. 5.
 Game, Race. M. Condé. No. 1,406,155; Feb. 7.
 Game-tallying device, Pool. C. H. Ritzman. No. 1,430,262; Sept. 26.
 Game, Target. G. J. Palaith. No. 1,413,770; Apr. 25.
 Game trap. A. McMullen. No. 1,430,242; Sept. 26.
 Game trap. M. J. Svehla. Nos. 1,421,610-11; July 4.
 Game traps, Forming jaws for. H. G. Greene. No. 1,413,722; Apr. 25.
 Games, Appliance for playing race. W. J. Parsons. No. 1,414,788; May 2.
 Games, Cards for playing. R. C. Johnson. No. 1,410,922; Mar. 28.
 Games, Impelling device for. W. E. Stonebridge. No. 1,429,656; Sept. 19.
 Games, Self instructor for. A. H. H. Lewis. No. 1,410,811; Mar. 28.
 Games, such as golf, Device for use in play or practising certain. C. A. Whitney. No. 1,405,081; Jan. 31.
 Gaming apparatus. O. P. Spilman. No. 1,439,199; Dec. 19.
 Garage. S. M. Dick. No. 1,435,153; Nov. 14.

- Garage. H. P. Sturges. No. 1,432,131; Oct. 17.
Garage building. T. Z. Humphries. No. 1,418,714; June 6.
Garage construction. B. F. Mullaney. No. 1,420,494; June 20.
Garage-door control. E. B. Hyatt. No. 1,410,314; Mar. 21.
Garages, etc., Indicator for. J. A. Granstrom. No. 1,410,292; Mar. 21.
Garbage and refuse of towns, Apparatus for working. G. Beccari. (Reissue.) No. 15,417; July 25.
Garbage can. A. Hagan. No. 1,435,962; Nov. 21.
Garbage can, Sanitary. P. Kane. No. 1,422,064; July 4.
Garbage cans, Cover for. T. V. Marigan. No. 1,409,387; Mar. 14.
Garbage, Collecting and trucking. E. B. Stuart. No. 1,405,952; Feb. 7.
Garbage container. C. C. Huber. No. 1,427,472; Aug. 29.
Garbage-disposal device. D. Rodgers. No. 1,434,066; Oct. 31.
Garbage disposal, Method and apparatus for. C. G. Armstrong. No. 1,415,290; May 9.
Garbage or ash can. W. J. Boyle, Sr. No. 1,402,830; Jan. 10.
Garbage receiver. I. J. Frost. No. 1,436,494; Nov. 21.
Garbage receptacle. C. B. Morgan. No. 1,408,957; Mar. 7.
Garbage reducer and distillator. P. L. Goodman. No. 1,419,135; June 13.
Garden-hose support. F. G. Algeo. No. 1,435,786; Nov. 14.
Garden tool. Z. T. Clark. No. 1,438,095; Dec. 5.
Garden tool. D. S. Dickie. No. 1,422,090; July 11.
Garden tool. J. E. Gilson. No. 1,420,423; June 20.
Garden tool. A. Miller. No. 1,423,865; July 25.
Garment. A. Baillie. No. 1,411,601; Apr. 4.
Garment. E. Borgenicht. No. 1,407,319; Feb. 21.
Garment. J. W. Burgess. No. 1,410,648; Mar. 28.
Garment. D. C. Collier and F. M. Murphy. No. 1,404,273; Jan. 24.
Garment. H. Fels. No. 1,414,349; May 2.
Garment. D. L. Fine. No. 1,426,973; Aug. 22.
Garment. D. Freeman. No. 1,421,446; July 4.
Garment. L. Garwitt. No. 1,431,736; Oct. 10.
Garment. A. B. Gribbie. No. 1,412,683; Apr. 11.
Garment. H. B. Heilmann. No. 1,404,855; Jan. 31.
Garment. B. Lustgarten. No. 1,408,375; Feb. 28.
Garment. M. E. Menaker. No. 1,406,203; Feb. 14.
Garment. J. J. Olson. No. 1,418,965; June 6.
Garment. M. Reingold. No. 1,402,089; Jan. 3.
Garment. A. Ross. No. 1,414,155; Apr. 25.
Garment, Adjustable bust-confining. V. A. Smith. No. 1,406,692; Feb. 14.
Garment, Apparel. W. Kops. No. 1,431,744; Oct. 10.
Garment, Belt-laced. C. Munter. No. 1,407,705; Feb. 28.
Garment box. R. F. Cuthbert. No. 1,417,144; May 23.
Garment box. H. F. Tiedemann. No. 1,435,673; Nov. 14.
Garment, Child's. S. Ballin. No. 1,420,176; June 20.
Garment, Child's. A. M. Cahn. No. 1,439,502; Dec. 19.
Garment, Child's. L. B. Thomas. No. 1,411,816; Apr. 4.
Garment clasp. M. M. Maxwell. No. 1,403,907; Jan. 17.
Garment clasp. C. A. Squires. No. 1,426,611; Aug. 22.
Garment, Combination. J. M. Atkinson. No. 1,405,962; Feb. 7.
Garment, Combination. N. Hatch. No. 1,439,100; Dec. 19.
Garment, Combination. E. A. Van Winkle. No. 1,434,169; Oct. 31.
Garment construction. J. Seewald. No. 1,421,849; July 4.
Garment, Convertible. F. H. Schwartz. No. 1,406,764; Feb. 14.
Garment-display support. B. G. Spilsbury. No. 1,404,803; Jan. 31.
Garment-displaying device. J. A. Launder. No. 1,410,930; Mar. 28.
Garment fastener. G. Del Favero. No. 1,437,727; Dec. 5.
Garment fastener. A. F. Hanney. No. 1,411,091; Mar. 28.
Garment fastener. I. N. Heatwole. No. 1,405,688; Feb. 7.
Garment fastener. R. J. Mulvey. No. 1,411,060; Mar. 28.
Garment fastener. R. J. Mulvey. No. 1,423,813; July 25.
Garment fastener. R. J. Mulvey. No. 1,429,292; Sept. 19.
Garment fastener. A. M. Nadell. No. 1,425,038; Aug. 8.
Garment fastener. O. F. Nilsson. No. 1,404,471; Jan. 24.
Garment fastener. A. Rocke. No. 1,409,030; Mar. 7.
Garment fastener. D. Stamey. No. 1,437,206; Nov. 28.
Garment fastener. W. J. Starn. No. 1,427,561; Aug. 29.
Garment fastener. A. N. Turnquist. No. 1,424,953; Aug. 8.
Garment fastener. W. Zimmerman. No. 1,423,590; July 25.
Garment for children. C. R. Janzow. No. 1,403,030; Jan. 10.
Garment form. J. J. Gould. No. 1,439,160; Dec. 19.
Garment-gloss-eliminating press. D. H. Benjamin. No. 1,409,652; Mar. 14.
Garment hanger. H. L. Biener. No. 1,429,835; Sept. 19.
Garment hanger. A. M. Edgar. No. 1,432,448; Oct. 17.
Garment hanger. L. V. Hanson. No. 1,406,007; Feb. 7.
Garment hanger. W. N. Hartzell and H. A. Weiss. No. 1,421,003; June 27.
Garment hanger. J. P. Hatch. No. 1,437,655; Dec. 5.
Garment hanger. F. H. Hoerning. No. 1,436,714; Nov. 28.
Garment hanger. C. S. Rattan. No. 1,422,782; July 11.
Garment hanger. E. F. Selby. No. 1,432,419; Oct. 17.
Garment hanger. E. Sutton and S. M. Ward. No. 1,420,890; June 27.
Garment hanger. H. Taubman. No. 1,421,614; July 4.
Garment hanger. P. D. Weeks. No. 1,415,747; May 9.
Garment hanger. J. W. Woodward. No. 1,417,009; May 23.
Garment hanger. J. B. Zorn. No. 1,438,350; Dec. 12.
Garment hanger and brush. C. L. Leonard. No. 1,409,738; Mar. 14.
Garment hanger and protector, Combined collapsible. G. Lipp. No. 1,406,879; Feb. 14.
Garment hanger and the like. J. A. Launder. No. 1,434,712; Nov. 7.
Garment-hanger bracket. C. B. Corbin. No. 1,415,316; May 9.
Garment, Knee. H. L. Snow. No. 1,404,489; Jan. 24.
Garment, Lady's. A. Emerson. No. 1,402,404; Jan. 3.
Garment, Leg. D. Sorel and M. Sarlabous. No. 1,437,564; Dec. 5.
Garment marker. A. Herd. No. 1,414,643; May 2.
Garment marker. A. R. Price. No. 1,404,318; Jan. 24.
Garment, Neck. S. S. Sampliner. No. 1,405,744; Feb. 7.
Garment, Nether. J. Stein. No. 1,439,649; Dec. 19.
Garment, Outer. H. Gendel. No. 1,405,405; Feb. 7.
Garment pattern. F. Koewing. No. 1,419,634; June 13.
Garment pattern. J. Latimore. No. 1,417,612; May 30.
Garment pocket closure. A. B. Jardin. No. 1,419,735; June 13.
Garment press. S. Byer. No. 1,402,049; Jan. 3.
Garment press. J. B. Spencer and P. E. Geldhof. No. 1,421,120; Aug. 15.
Garment presser, Electrically-heated. B. W. Macy. No. 1,420,636; June 27.
Garment presses, Locking and release treadle mechanism for. W. E. Andr  e. No. 1,403,826; Jan. 17.
Garment-pressing machine. F. E. and O. R. Deckert. No. 1,430,954; Oct. 3.
Garment-pressing machine. L. T. Sheheen. No. 1,436,540; Nov. 21.
Garment, Protective. A. C. Brown. No. 1,418,526; June 6.
Garment protector for auto-seats. E. L. and A. L. Tuchs. No. 1,415,626; May 9.
Garment rack. T. W. Harvey. No. 1,409,852; Mar. 14.
Garment retainers, Retaining device for. E. W. Hawley. No. 1,413,659; Apr. 25.
Garment, Reversible. C. F. Zitting. No. 1,430,715; Oct. 3.
Garment seam. W. G. Flatow. No. 1,403,308; Jan. 10.
Garment support. W. H. Brasher. No. 1,414,336; May 2.
Garment support. T. Hall. No. 1,427,104; Aug. 29.
Garment support or the like. M. L. Hawks. No. 1,439,165; Dec. 19.
Garment supporter. G. D. Able. No. 1,412,033; Apr. 11.
Garment supporter. B. S. Alsop. No. 1,404,181; Jan. 24.
Garment supporter. T. L. Caudle. No. 1,411,160; Mar. 28.
Garment supporter. H. V. Clausen. No. 1,416,609; May 16.
Garment supporter. H. V. Clausen. No. 1,421,171; June 27.
Garment supporter. H. A. Coles. No. 1,404,094; Jan. 17.
Garment supporter. A. Graydon. No. 1,411,014; Mar. 28.
Garment supporter. H. W. Lakin. No. 1,414,476; May 2.
Garment supporter. E. V. Norris. No. 1,428,250; Sept. 5.
Garment supporter. T. H. Reinhardt and J. A. Merkle. No. 1,402,378; Jan. 3.
Garment supporter. M. L. Russell. No. 1,405,445; Feb. 7.
Garment supporter. Q. D. Scott. No. 1,402,899; Jan. 10.
Garment supporter. F. L. Werner. No. 1,413,696; Apr. 25.
Garment supporter. J. P. Wilson. No. 1,406,796; Feb. 14.
Garment supporter and fastener. J. K. Seymour. No. 1,431,262; Oct. 10.
Garment-supporting device. E. Bowler. No. 1,423,749; July 25.
Garment turner. T. E. Scully. No. 1,439,844; Dec. 26.
Garment, Union. J. M. Atkinson. No. 1,405,963; Feb. 7.
Garment, Union. J. M. Atkinson. No. 1,410,870; Mar. 28.
Garment, Union. W. S. Skelton. No. 1,430,409; Sept. 26.
Garment, Union working. L. F. Metcalf. Nos. 1,411,119-20; Mar. 28.
Garment, Work. G. E. Keck and F. K. Cuddy. No. 1,405,421; Feb. 7.
Garment, Workman's. G. W. Weaver. No. 1,409,805; Mar. 14.
Garments and the like. L. Macheroux. No. 1,416,486; May 16.
Garments, Eye for. L. M. Rabinowitz. No. 1,425,897; Aug. 15.
Garments, Fastening attachment for. O. M. Pollack. No. 1,440,241; Dec. 26.
Garments, Knitted neck for. J. C. Lang. No. 1,404,305; Jan. 24.
Garments, Slide for the straps of. C. E. Anderson. No. 1,423,639; July 25.
Garter. J. Rear. No. 1,425,571; Aug. 15.
Garter. R. M. Byers. No. 1,424,801; Aug. 8.
Garter. E. O. Hammerberg. No. 1,417,244; May 23.
Garter. E. S. Hersperger. No. 1,415,030; May 9.
Garter. R. A. Moore. No. 1,406,995; Feb. 21.
Garter. C. M. Postl. No. 1,404,719; Jan. 24.

Alphabetical list of inventions—Continued.

- Garter and garment supporter. R. N. Klass. No. 1,430,742; Oct. 3.
 Garter and making same. L. Platt. No. 1,410,533; Mar. 21.
 Garter clasp. W. J. Dempsey. No. 1,402,403; Jan. 3.
 Garter, Man's. W. H. Baer. No. 1,434,729; Nov. 7.
 Garter, Man's. M. B. Hammond and H. H. Taylor. No. 1,419,924; June 20.
 Garter or suspender. C. V. Fulton. No. 1,405,199; Jan. 31.
 Garters, etc., Clasp for. E. Helm. No. 1,424,301; Aug. 1.
 Gas-analyzing apparatus. O. Rodhe. (Reissue.) No. 15,409; July 11.
 Gas-analyzing apparatus, Volumetric. J. W. Hogg. No. 1,435,846; Nov. 14.
 Gas and air mixer. W. H. Cain. No. 1,407,346; Feb. 21.
 Gas and flexible metal tubing, Device for forming coupling ends for. P. J. Burke. No. 1,426,037; Aug. 15.
 Gas and for carbonizing coal, Producing combustible. H. L. Doherty. No. 1,426,159; Aug. 15.
 Gas and like meter. F. and H. T. Thorp. No. 1,424,220; Aug. 1.
 Gas and oil burner, Combination. W. W. Stevenson and O. H. Bathgate. No. 1,406,238; Feb. 14.
 Gas and oil burner, Combination. W. W. Stevenson and O. H. Bathgate. No. 1,435,991; Nov. 21.
 Gas and oil engine. A. G. Pace. No. 1,404,718; Jan. 24.
 Gas and oil separator. H. Wirshing. No. 1,440,197; Dec. 26.
 Gas and producing same, Fuse for blasting with liquefied. A. Kowatsch. No. 1,424,487; Aug. 1.
 Gas and product thereof, Treating natural. H. E. Thompson. No. 1,429,175; Sept. 12.
 Gas, Apparatus for and process of purifying. A. L. Stevens. No. 1,423,696; July 25.
 Gas, Apparatus for purifying coal. F. Soddy. No. 1,422,008; July 4.
 Gas, Apparatus for recovering gasoline from natural. J. B. Garner and S. C. Preston. No. 1,437,101; Nov. 28.
 Gas, Art of and means for burning domestic or producer. A. H. Thompson. No. 1,434,256; Oct. 31.
 Gas-boostor regulator. P. Hoffman and F. C. Reed. No. 1,422,573; July 11.
 Gas burner. W. J. Barber. Nos. 1,412,767-8; Apr. 11.
 Gas burner. A. Beler. No. 1,420,405; June 20.
 Gas burner. P. J. Bohan. No. 1,415,141; May 9.
 Gas burner. W. M. Britten. No. 1,406,925; Feb. 14.
 Gas burner. M. Burgstaller. No. 1,426,815; Aug. 22.
 Gas burner. H. E. Coley and D. H. Dickson. No. 1,436,333; Nov. 21.
 Gas burner. N. B. Denison. No. 1,412,044; Apr. 11.
 Gas burner. H. R. Humphrey. No. 1,425,097; Aug. 8.
 Gas burner. G. Keith. No. 1,413,661; Apr. 25.
 Gas burner. J. Knudsen. No. 1,407,871; Feb. 28.
 Gas burner. S. P. Larrison and S. S. Sadler. No. 1,430,821; Oct. 3.
 Gas burner. P. Moquist. No. 1,433,218; Oct. 24.
 Gas burner. F. J. Pioch. No. 1,409,465; Mar. 14.
 Gas burner. H. D. Schroeder. No. 1,428,400; Sept. 5.
 Gas burner. E. H. and M. C. Shuler. No. 1,421,591; July 4.
 Gas burner. V. Sjöström. No. 1,438,505; Dec. 12.
 Gas burner. F. W. Skinner. No. 1,434,159; Oct. 31.
 Gas burner. E. Turner. No. 1,405,360; Jan. 31.
 Gas burner. M. E. Vezie. No. 1,408,716; Mar. 7.
 Gas burner. N. T. Wheelock. No. 1,403,215; Jan. 10.
 Gas burner. F. H. Whelcox. No. 1,436,132; Nov. 21.
 Gas-burner attachment. I. W. Baecker. No. 1,429,826; Sept. 19.
 Gas-burner attachment. P. Moellendick. No. 1,414,146; Apr. 25.
 Gas burners, Delayed cut-off for. R. D. Smith. No. 1,415,062; May 9.
 Gas burners, Safety lighting attachment for. G. F. Shafer. No. 1,433,101; Oct. 24.
 Gas by means of charcoal, Method of stripping the illuminants from and of purifying coal. F. Soddy. No. 1,422,007; July 4.
 Gas cock and jet plug therefor. E. L. Claus. No. 1,422,033; July 4.
 Gas-collecting means. C. V. McIntire. No. 1,433,634; Oct. 31.
 Gas compressor and refrigerating unit, Fluid-. J. Frankenberg. No. 1,412,237; Apr. 11.
 Gas-conduit control means, Automatic. H. Jervis. No. 1,416,831; May 23.
 Gas-controlling device, Automatic. E. A. T. Holden. No. 1,420,702; June 27.
 Gas, Cooling, cleaning, and filtering device for. D. J. Smith. No. 1,402,676; Jan. 3.
 Gas cut-off, Automatic safety. P. P. Catalano. No. 1,416,169; May 16.
 Gas detector. A. B. Lamb and A. T. Larson. No. 1,416,361; May 16.
 Gas diffuser. E. J. Sweetland. No. 1,403,578; Jan. 17.
 Gas engine. T. W. Hainline. No. 1,417,730; May 30.
 Gas engine. J. E. Smith. No. 1,418,209; May 30.
 Gas engine. E. J. and J. F. Woolf. No. 1,429,818; Sept. 19.
 Gas engine, Rotary. J. H. McCarthy. No. 1,439,629; Dec. 19.
 Gas engine, Rotary. E. W. Stowe. No. 1,412,296; Apr. 11.
 Gas engines, Valve mechanism for. E. H. Ryon. No. 1,422,138; July 11.
 Gas-exhauster governor. C. R. Houghton. No. 1,440,297; Dec. 26.
 Gas extractor. W. L. Remick. No. 1,410,599; Mar. 28.
 Gas fires, Burner for. J. H. Grayson. No. 1,424,760; Aug. 8.
 Gas fixture. J. Gentile. No. 1,424,351; Aug. 1.
 Gas furnace. W. C. Peterson. No. 1,416,746; May 23.
 Gas furnace. J. Zander. No. 1,406,713; Feb. 14.
 Gas furnaces, Retort for. G. Horn. No. 1,429,346; Gas generating and heating apparatus, Safety device for. W. G. Chausse. No. 1,423,080; July 18.
 Gas-generating apparatus, Acetylene-. P. B. Sullivan. No. 1,412,901; Apr. 18.
 Gas-generating plant. J. Lowe. No. 1,416,042; May 16.
 Gas generator. C. J. and G. J. Cleifton. No. 1,417,974; May 30.
 Gas generator. P. Dorsey. No. 1,422,938; July 18.
 Gas generator. T. R. Ernest. No. 1,410,393; Mar. 21.
 Gas generator. F. G. Farr. No. 1,407,850; Feb. 28.
 Gas generator. S. Moore. No. 1,418,158; May 30.
 Gas generator. W. B. Moore. No. 1,402,785; Jan. 10.
 Gas generator, Acetylene-. G. Nott. No. 1,414,329; Apr. 25.
 Gas generator and burner. J. A. Kenworthy. No. 1,417,745; May 30.
 Gas generator and burner, Hydrocarbon-. H. C. Sillett. No. 1,427,129; Aug. 29.
 Gas generator and retort apparatus, Combined. G. P. Lewis. No. 1,430,452; Sept. 26.
 Gas generator, Electrolytic. I. H. Levin. No. 1,434,548; Nov. 7.
 Gas generator for oil burners. N. J. Verret. No. 1,418,407; June 6.
 Gas generator, Hydropneumatic. J. W. Duntley. No. 1,424,160; Aug. 1.
 Gas generators, Automatic feed for acetylene-. O. J. Warman. No. 1,436,128; Nov. 21.
 Gas generators, Fuel feeder for. J. E. Sharp and A. J. Bassett. No. 1,439,192; Dec. 19.
 Gas governor. C. E. Barnes. No. 1,406,817; Feb. 14.
 Gas-heat retainer and flame cleanser. E. G. Neuschwanger. No. 1,414,664; May 2.
 Gas heater. W. D. Antrim. No. 1,406,523; Feb. 14.
 Gas heater. B. C. Bartlebaugh. No. 1,403,730; Jan. 17.
 Gas heater. A. T. Broch. No. 1,438,092; Dec. 5.
 Gas heater. C. E. Epworth. No. 1,421,190; June 27.
 Gas heater. W. C. Herbert. No. 1,404,151; Jan. 17.
 Gas heater. G. A. Hoffman. No. 1,410,807; Mar. 28.
 Gas heater. H. R. Humphrey. No. 1,407,750; Feb. 28.
 Gas heater. H. E. Loebe. No. 1,430,391; Sept. 26.
 Gas heater. J. Sebold. No. 1,402,183; Jan. 3.
 Gas heater. A. H. Wolff. No. 1,410,236; Mar. 21.
 Gas heater. A. H. Wolff. No. 1,410,280; Mar. 21.
 Gas heater and vaporizer. T. W. Gorman. No. 1,424,898; Aug. 8.
 Gas heaters, Burner for. H. Kielberg. No. 1,438,041; Dec. 5.
 Gas heating apparatus. J. A. Hardel. No. 1,410,806; Mar. 28.
 Gas heating burner. W. V. Malone. No. 1,440,227; Dec. 26.
 Gas humidifier. R. Moyer. No. 1,405,062; Jan. 31.
 Gasifier. L. J. May. No. 1,420,616; June 20.
 Gas in and out of connection with one another, Device for putting pipe conduits for. E. A. Johansson. No. 1,436,174; Nov. 21.
 Gas in another, Method of and apparatus for detecting the presence of one. C. H. M. Roberts. No. 1,421,720; July 4.
 Gas jets, Controlling device for. J. S. Kraker. No. 1,433,462; Oct. 24.
 Gas, Lachrymatory. H. H. Dow. No. 1,411,422; Apr. 4.
 Gaslighter. J. Grimm. No. 1,408,288; Feb. 28.
 Gaslighter. C. F. Larsen. No. 1,416,098; May 16.
 Gas line cut-off, Automatic. T. Tolla and E. W. Boots. No. 1,410,852; Mar. 28.
 Gas, Liquid-producer plant and forming combustible. G. L. Reichhelm. No. 1,434,025; Oct. 31.
 Gas lock, Automatic. R. Miller. No. 1,419,884; June 13.
 Gas making. E. L. Hall. No. 1,409,709; Mar. 14.
 Gas making. J. U. McDonald. (Reissue.) No. 15,320; Mar. 28.
 Gas-making apparatus, Vertical-retort. R. M. Scarle. No. 1,427,078; Aug. 22.
 Gas, Making sulphur-free water. C. S. Palmer. No. 1,405,863; Feb. 7.
 Gas mantles, Manufacture of incandescent. J. P. H. Soper and T. Terrell, Jr. No. 1,436,296; Nov. 21.
 Gas mantles, Treatment of fabrics for. J. T. Robin. No. 1,436,359; Nov. 21.
 Gas, Manufacturing water. H. L. Doherty. No. 1,409,682; Mar. 14.
 Gas, Means for cooling a. E. Jordan. No. 1,425,019; Aug. 8.
 Gas meter. E. E. W. Anderson. No. 1,421,138; June 27.
 Gas meter. M. Anniger. No. 1,421,140; June 27.
 Gas meter. T. Horton. No. 1,423,217; July 18.
 Gas meter. G. K. V. Johanson. No. 1,417,998; May 30.
 Gas meter. G. A. Lane. No. 1,431,122; Oct. 3.
 Gas meter. T. G. Molnar. No. 1,439,185; Dec. 19.
 Gas meter. H. F. Tolhurst. No. 1,432,809; Oct. 24.

Alphabetical list of inventions—Continued.

- Gas meter and gas consumption, Apparatus for regulating fluid and gas pressure between. P. Lavarello fu Giuseppe. No. 1,425,105; Aug. 8.
- Gas meter, Prepayment. F. Smith. No. 1,404,167; Jan. 17.
- Gas meters, Means for and method of proving. R. L. Dezendorf. No. 1,422,089; July 11.
- Gas, Method and apparatus for increasing the yield of hydrogen in coal. J. H. West and A. Jaques. No. 1,424,749; Aug. 1.
- Gas, Method of and apparatus for manufacturing. A. F. Kersting. No. 1,420,041; June 20.
- Gases, Method of and apparatus for producing dry compressed. M. H. Roberts. No. 1,439,911; Dec. 26.
- Gas mixer. G. S. Barrows. No. 1,437,883; Dec. 5.
- Gas mixer. B. W. Dunn and K. Moodie. No. 1,430,803; Oct. 3.
- Gas mixer. J. Needham. Nos. 1,411,062-3; Mar. 28.
- Gas mixer. C. A. Peterson. No. 1,407,476; Feb. 21.
- Gas-mixing device. E. M. White. No. 1,426,695; Aug. 22.
- Gas mixtures containing nitrogen oxides, Treating. A. A. Noyes and C. L. Burdick. No. 1,433,969; Oct. 31.
- Gas mixtures, Instrument for measuring carbon dioxide in. J. W. McNairy. No. 1,436,273; Nov. 21.
- Gas mixtures, Preparing purified. J. C. Clancy. No. 1,425,577; Aug. 15.
- Gas motors or internal-combustion engines, Mechanical starter for. E. C. Howard. No. 1,406,018; Feb. 7.
- Gas or other substance, Means for removing one or more ingredients of. F. F. Uehling. No. 1,412,790; Apr. 11.
- Gas-pipe cleaner. A. A. Brooks. No. 1,435,277; Nov. 14.
- Gas-pipe-manipulating apparatus. W. Richter. No. 1,427,699; Aug. 29.
- Gas plant. A. L. Clark. No. 1,403,590; Jan. 17.
- Gas plate. C. A. Kirkwood. No. 1,405,521; Feb. 7.
- Gas-pressure regulator. I. C. Taylor. No. 1,411,228; Mar. 28.
- Gas producer. F. M. E. Blass. No. 1,414,109; Apr. 25.
- Gas producer. W. B. Chapman. No. 1,412,921; Apr. 18.
- Gas producer. L. Fornas. No. 1,422,093; July 11.
- Gas producer. A. L. Galusha. No. 1,429,578; Sept. 19.
- Gas producer. C. Garner. No. 1,409,440; Mar. 14.
- Gas producer. J. R. George. No. 1,406,637; Feb. 14.
- Gas producer. H. G. Johnston. No. 1,412,118; Apr. 11.
- Gas producer. J. C. Miller and A. Isles. No. 1,435,322; Nov. 14.
- Gas producer. D. Nelson. No. 1,408,465; Mar. 7.
- Gas producer. D. J. Smith. No. 1,439,647; Dec. 19.
- Gas producer. J. Wells. No. 1,422,643; July 11.
- Gas producer and process. E. M. Braxton. No. 1,424,077; July 25.
- Gas-producer construction. O. T. Brown. No. 1,403,890; Jan. 17.
- Gas-producer feed. O. T. Brown. No. 1,433,109; Oct. 24.
- Gas producer, Method of and apparatus for preventing the accumulation of sticky condensed products of a gas producer upon the relatively movable engaging surfaces of the fuel-feeding mechanism applied to a. C. C. Hoffman and J. M. Caslin. No. 1,415,238; May 9.
- Gas producers, Apparatus for protecting. W. C. Dayton. No. 1,402,721; Jan. 3.
- Gas producers, Attachment for. A. L. Galusha. No. 1,409,941; Mar. 21.
- Gas producers, Feed hopper for. G. L. Robinson. No. 1,425,901; Aug. 15.
- Gas producers, Feeding mechanism for. C. W. Lummis. No. 1,425,115; Aug. 8.
- Gas producers, Fuel-feed mechanism for. J. F. Rogers. No. 1,435,942; Nov. 21.
- Gas producers or furnaces, Coal feed for. O. T. Brown. No. 1,429,711; Sept. 19.
- Gas producers, Poker for. E. H. Wilson. No. 1,419,342; June 13.
- Gas producers, Regulating mechanism for. C. W. Lummis. No. 1,425,875; Aug. 15.
- Gas-producing apparatus. W. E. Elliott. No. 1,430,633; Oct. 3.
- Gas-producing apparatus, Re'ort for. S. F. Sworski and F. F. Ratajczak. No. 1,418,745; June 6.
- Gas, Producing chlorine. G. N. Blanchard. No. 1,430,785; Oct. 3.
- Gas, Production of protective. J. Muchka. No. 1,413,285; Apr. 18.
- Gas purification. H. F. Smith. No. 1,430,696; Oct. 3.
- Gas-purification process. C. J. Ramsburg. No. 1,436,196; Nov. 21.
- Gas reclaimers. H. E. Tracy. No. 1,427,337; Aug. 29.
- Gas, Recovering gasoline from natural. J. B. Garner and S. C. Preston. No. 1,437,102; Nov. 28.
- Gas-release packer, Automatic. W. J. Cummings. No. 1,412,275; Apr. 11.
- Gas saver. A. L. Miller. No. 1,403,517; Jan. 17.
- Gas separator, Oil-seal. K. L. Reynolds. No. 1,432,208; Oct. 17.
- Gas-set controls, Alarm-signal system for automatic water. J. H. Taussig. No. 1,434,072; Oct. 31.
- Gas shut-off, Automatic safety. I. B. Laskowitz. No. 1,418,082; May 30.
- Gas-shut-off device. J. W. Christian. No. 1,402,837; Jan. 30.
- Gas supply systems, Safety cut-out device for use on. G. Keith and J. E. Poinson. No. 1,427,821; Sept. 5.
- Gas tanks, Truck for. G. W. Richards. No. 1,408,400; Feb. 28.
- Gas trap. S. J. Dickey. No. 1,413,160; Apr. 18.
- Gas-trap float. M. J. Trumble. No. 1,432,221; Oct. 17.
- Gas under variable atmospheric pressure, Automatic regulator for the distribution of predetermined quantities of. J. C. J. de Lestang-Parade. No. 1,434,103; Oct. 31.
- Gaseous emanations from organic matter, Deodorizing offensive. Y. Henderson and H. W. Haggard. No. 1,410,249; Mar. 21.
- Gaseous fluids, Controlling and regulating device for. J. C. J. de Lestang-Parade. No. 1,434,102; Oct. 31.
- Gaseous-fuel burner. G. A. Hoffman. No. 1,405,214; Jan. 31.
- Gaseous hydrocarbon mixtures, Treating. G. O. Curme, Jr. No. 1,422,182; July 11.
- Gaseous liquids, Appliance for delivering. W. R. Tate. No. 1,412,321; Apr. 11.
- Gaseous mixture of CH_4 and H, Apparatus and method for the production of a. L. Colson. No. 1,428,879; Sept. 12.
- Gaseous mixtures, Apparatus for extracting vapors from. G. A. Burrell, G. G. Oberfell, and C. L. Voress. No. 1,402,340; Jan. 3.
- Gaseous mixtures, Apparatus for the separation of. P. E. Haynes. No. 1,429,903; Sept. 19.
- Gaseous mixtures, Separating the constituents of. G. Claude. No. 1,426,461; Aug. 22.
- Gaseous mixtures, Separation of. P. E. Haynes. No. 1,429,242; Sept. 19.
- Gaseous mixtures, Treating. G. O. Curme, Jr. No. 1,422,183; July 11.
- Gaseous strata, Device for effecting the mixing of. R. W. Burckhardt. No. 1,419,216; June 13.
- Gases and concentration of their sulphur content, Purification of sulphur-bearing. M. F. Coolbaugh. No. 1,412,452; Apr. 11.
- Gases and gaseous substances, Method and apparatus for treating. A. B. Lamb. No. 1,422,211; July 11.
- Gases, Apparatus for automatic and continuous analysis and recording of. W. D. R. Brown and W. T. Pickston. No. 1,422,080; July 11.
- Gases, Apparatus for deposition and collection of suspended matter in. G. C. Lewis. No. 1,402,302; Jan. 3.
- Gases, Apparatus for electrical precipitation of suspended particles from. G. A. Witte. No. 1,407,311; Feb. 21.
- Gases, Apparatus for purifying and treating. H. Hernu. No. 1,408,736; Mar. 7.
- Gases, Apparatus for removing suspended matter from. J. P. Fisher. No. 1,420,986; June 27.
- Gases, Apparatus for separating. M. von Recklinghausen. No. 1,403,723; Jan. 17.
- Gases, Compressing. L. Block. No. 1,425,938; Aug. 15.
- Gases containing sulphur dioxide, Enriching metallurgical. G. C. Howard. No. 1,417,066; May 23.
- Gases, Desulphurizing. A. Mittasch and M. Schumann. No. 1,430,920; Oct. 3.
- Gases, Detecting. E. P. S. Newman. No. 1,419,685; June 13.
- Gases, Device for measuring the velocity of. H. Bacharach. No. 1,419,798; June 13.
- Gases, Discharging smelter. W. H. Howard. No. 1,422,575; July 11.
- Gases dissolved in liquids, as, for instance, acetylene, Porous charge for containers serving for storage of explosive. E. Klebert. No. 1,419,862; June 13.
- Gases, Distributing. M. H. Roberts. No. 1,435,555; Nov. 14.
- Gases, Extracting cyanides from. M. E. Mueller. No. 1,413,762; Apr. 25.
- Gases, Extracting hydrocyanic acid from. M. E. Mueller. No. 1,413,763; Apr. 25.
- Gases, Filling high-pressure vessels with liquefiable. P. Heylandt. No. 1,414,359; May 2.
- Gases from internal-combustion engines, Arrangement for purifying and rendering odorless the exhaust. P. Wachtel. No. 1,415,418; May 9.
- Gases from liquids, Apparatus for removing. H. Fothergill. No. 1,416,632; May 16.
- Gases from liquids, Apparatus for removing. L. D. Mills. No. 1,433,965; Oct. 31.
- Gases from liquids, Apparatus for separating. B. Skidmore, Jr. No. 1,403,650; Jan. 17.
- Gases, Means for distributing the combustion of. H. Burgi. No. 1,433,778; Oct. 31.
- Gases, Means for regulating the flow of compressed. A. E. Bawtree. No. 1,421,381; July 4.
- Gases, Means for utilizing waste furnace. G. A. Witte. No. 1,407,717; Feb. 28.
- Gases, Method and apparatus for determining the calorific value of. C. H. Lanphier. No. 1,432,472; Oct. 17.
- Gases, Method and apparatus for electrical precipitation of suspended particles from. E. Anderson. No. 1,409,901; Mar. 21.
- Gases, Method of and apparatus for producing. I. Hechenbleikner. No. 1,409,295; Mar. 14.
- Gases, Method of and apparatus for promoting chemical reactions between. S. Ruben. No. 1,431,047; Oct. 3.
- Gases of cement kilns, Utilizing waste heat. J. E. Bell. No. 1,421,386; July 4.
- Gases or air in which they are carried in suspension, Apparatus for extracting dust and fumes from. H. Milliken. No. 1,405,613; Feb. 7.
- Gases, Portable apparatus for generating poisonous. J. W. Van Meter. No. 1,419,653; June 13.

Alphabetical list of inventions—Continued.

- Gases, Process and apparatus for collecting suspended material from furnace. W. A. Schmidt. No. 1,413,877; Apr. 25.
- Gases, Process and apparatus for electrical separation of suspended particles from. S. H. Rhodes. No. 1,413,993; Apr. 25.
- Gases, Process of and apparatus for extracting, liquefying, and separating liquefiable constituents of. E. Schill and P. Wardick. No. 1,415,058; May 9.
- Gases, Process and apparatus for recovery of by-products from distillate. C. S. Lomax. No. 1,408,105; Feb. 28.
- Gases, Process and apparatus for reparation of suspended material from. E. R. Wolcott. No. 1,416,769; May 23.
- Gases, Production of hydrogen sulfide from sulphurous. W. J. Browning. No. 1,407,323; Feb. 21.
- Gases, Purifying and drying. J. C. Clancy. No. 1,403,391; Jan. 10.
- Gases, Recovery of valuable products from coal. A. Mittasch, J. Jannet, and G. Wietzel. No. 1,412,954; Apr. 18.
- Gases, Treating. J. C. W. Frazer. No. 1,418,246; May 30.
- Gases, Vaporizer for liquefied. E. S. Andrews. No. 1,417,292; May 23.
- Gases, Water valve for controlling flow of. J. S. Bradford. No. 1,439,602; Dec. 19.
- Gasket. C. Tasso and H. B. Daly. No. 1,424,691; Aug. 1.
- Gasket and making same. E. A. Nelson. No. 1,430,103; Sept. 26.
- Gasket and similar material, Manufacture of. C. H. Van Nostrand. No. 1,409,206; Mar. 14.
- Gasket, Collapsible expansion. L. Friedman and D. Wallace. No. 1,427,099; Aug. 29.
- Gasket cutter. C. H. Hennings. No. 1,430,373; Sept. 26.
- Gasket for intake manifolds. G. Kunz. No. 1,415,656; May 9.
- Gasket liners, Machine and method for cutting and applying. C. W. Graham. No. 1,432,849; Oct. 24.
- Gasket-making machine, Automatic. E. A. Rybicki. No. 1,404,899; Jan. 31.
- Gasket, packing, etc. E. O. Benjamin. No. 1,409,276; Mar. 14.
- Gasket, Pneumatic. F. M. Shaw. No. 1,439,452; Dec. 19.
- Gasket, Screen. W. H. Betts. No. 1,422,916; July 18.
- Gasket-sealed containers, Ready opener for. A. M. Bernard. No. 1,436,007; Nov. 21.
- Gasket, Vaporizing. J. H. Baker. No. 1,407,113; Feb. 21.
- Gaskets and the like, Aligning clip for. W. C. Anderson. No. 1,435,887; Nov. 14.
- Gasoline and oil saver. W. A. Richey and C. H. Rowles. No. 1,421,567; July 4.
- Gasoline and the like, Producing. J. C. Clancy. No. 1,423,709; July 25.
- Gasoline, Apparatus for cracking mineral oil to produce. B. Van Steenberg. No. 1,407,339; Feb. 21.
- Gasoline, Apparatus for the manufacture of. H. A. Dreflein. No. 1,413,327; Apr. 18.
- Gasoline can, Emergency. E. C. Staples and H. H. Dean. No. 1,417,951; May 30.
- Gasoline clarifier and purifier. F. V. Ross. No. 1,437,153; Nov. 28.
- Gasoline, Device for dispensing. J. F. Mixer. No. 1,408,901; Mar. 7.
- Gasoline dispensing device. E. Crouse. (Reissue.) No. 15,432; Aug. 22.
- Gasoline engines, Fuel mixer for. L. R. Mabee. No. 1,418,877; June 6.
- Gasoline, etc., Indicator for. S. M. Wessoleck. No. 1,406,312; Feb. 14.
- Gasoline-feed system. E. R. Huntley. No. 1,414,952; May 2.
- Gasoline filling stations, Automatic vacuum device for. C. O. McGraw and J. L. Martin. No. 1,413,560; Apr. 18.
- Gasoline filter. G. Giovannoni. No. 1,401,976; Jan. 3.
- Gasoline from casing-head gas, Apparatus for recovery of. W. R. McGinnis. No. 1,418,876; June 6.
- Gasoline from natural gas, Recovering. E. A. Starke. No. 1,439,921; Dec. 26.
- Gasoline gauge. R. F. MacMichael. No. 1,406,201; Feb. 14.
- Gasoline-line lock. D. R. Cox and D. A. Kinnie. No. 1,426,154; Aug. 15.
- Gasoline, Manufacture of. R. F. Bacon and B. T. Brooks. No. 1,439,633; Dec. 26.
- Gasoline, Manufacture of. A. M. McAfee. No. 1,405,054; Jan. 31.
- Gasoline. Means for filtering. H. A. Decks. No. 1,427,196; Aug. 29.
- Gasoline-measuring device. S. J. White. No. 1,404,502; Jan. 24.
- Gasoline meter. R. Lossing. No. 1,414,964; May 2.
- Gasoline purifier. W. J. Sedelbauer. No. 1,423,970; July 25.
- Gasoline-reserve device. W. H. Muzzy. No. 1,407,800; Feb. 28.
- Gasoline soldering iron. W. Cohen. No. 1,422,740; July 11.
- Gasoline tank. W. F. Schwiosow. No. 1,434,846; Nov. 7.
- Gasoline-tank filler and indicator. C. H. Dunfee and A. L. Spence. No. 1,431,573; Oct. 10.
- Gasoline-tank indicator. C. E. Cox. No. 1,432,157; Oct. 17.
- Gasoline tanks, Level indicator for. F. Le Plane. No. 1,432,069; Oct. 17.
- Gasoline tanks, Water drain for. J. Widme. No. 1,430,425; Sept. 26.
- Gasoline, Treating mineral oil for the production of. B. Van Steenberg. No. 1,407,340; Feb. 21.
- Gate: See—
- Automatic gate. Mill-spout gate.
- Automatic railway gate. Portable gate.
- Barrier gate. Railway gate.
- Bin gate. Railway-crossing gate.
- Car safety gate. Sand gate.
- Elevator gate. Segment gate.
- Farm gate. Sign gate.
- Film gate. Swinging gate.
- Hydraulic water gate. Train-operated gate.
- Irrigation gate. Water gate.
- Gate. N. J. Bishop. No. 1,433,929; Oct. 31.
- Gate. H. F. Butler. No. 1,439,604; Dec. 19.
- Gate. T. J. Drake. No. 1,421,422; July 4.
- Gate. A. Hampton. No. 1,411,697; Apr. 4.
- Gate. J. C. Hart. No. 1,413,403; Apr. 18.
- Gate. W. V. Hart. No. 1,426,474; Aug. 22.
- Gate. H. Langeberg. No. 1,420,932; June 27.
- Gate. A. E. Miller. No. 1,437,671; Dec. 5.
- Gate. A. B. Parker. No. 1,409,018; Mar. 7.
- Gate. H. S. Rand. No. 1,428,904; Sept. 12.
- Gate. F. Reading, Jr. No. 1,409,468; Mar. 14.
- Gate. F. S. Richardson. No. 1,430,851; Oct. 3.
- Gate. J. B. Woytassek. No. 1,434,180; Oct. 31.
- Gate-actuating mechanism. D. S. Bain. No. 1,432,436; Oct. 17.
- Gate-actuating mechanism. R. R. Hage. No. 1,432,750; Oct. 24.
- Gate and hinge. J. Lange. No. 1,425,986; Aug. 15.
- Gate and post construction. A. N. Griffin. No. 1,407,062; Feb. 21.
- Gate construction. C. C. Cameron. No. 1,413,157; Apr. 18.
- Gate fastener. H. H. Schaefer. No. 1,421,573; July 4.
- Gate hinge. H. T. Hacker. No. 1,423,321; July 18.
- Gate-hinge construction. R. McLaughlin. No. 1,417,758; May 30.
- Gate, Irrigation. T. C. Jameson. No. 1,403,248; Jan. 10.
- Gate latch. W. L. Myers. No. 1,402,436; Jan. 3.
- Gate opening and closing mechanism. L. Johnson. No. 1,421,088; June 27.
- Gate-opening attachment. J. H. Pratt. No. 1,439,838; Dec. 26.
- Gate-operating device. F. Kale. No. 1,402,512; Jan. 3.
- Gate-operating means. R. X. Williams. No. 1,436,845; Nov. 28.
- Gate-operating mechanism. G. L. Curtis. No. 1,439,951; Dec. 26.
- Gate-operating mechanism. F. Kahler. No. 1,424,913; Aug. 8.
- Gate-operating mechanism, Locking device for. C. O. Lydick. No. 1,413,674; Apr. 25.
- Gate-releasing device. J. Lesjak. No. 1,429,597; Sept. 19.
- Gates, Adjusting device for flexible. W. K. Voorhees. No. 1,428,067; Sept. 5.
- Gates, Means for operating elevator. G. P. A. P. J. Drolet. No. 1,407,392; Feb. 21.
- Gathering and cocking machine. L. Pagel. No. 1,416,972; May 23.
- Gathering reel. G. W. Packer. No. 1,438,394; Dec. 12.
- Gauge: See—
- Absolute-pressure gauge. Liquid-fuel gauge.
- Adjustable limit gauge. Liquid gauge.
- Air gauge. Liquid-level gauge.
- Automobile wheel gauge. Measuring gauge.
- Axle gauge. Micrometer gauge.
- Back gauge. Micrometer height gauge.
- Bearing gauge. Mortise gauge.
- Bit gauge. Oil gauge.
- Bore gauge. Outage gauge.
- Butter-fat gauge. Plug gauge.
- Calliper gauge. Pressure gauge.
- Caliper screw gauge. Pressure draft gauge.
- Center gauge. Printer's type gauge.
- Cock gauge. Raker gauge.
- Combination gauge. Rain gauge.
- Compensating gauge. Register gauge.
- Dental pressure gauge. Ring gauge.
- Dent or liquid-level gauge. Ring thread gauge.
- Drill and wire gauge. Saw-filing gauge.
- Drill gauge. Saw gauge.
- Electric gauge. Screw gauge.
- Expansion-plug gauge. Self-acting gauge.
- Float gauge. Shingle gauge.
- Fluid gauge. Shingling gauge.
- Fluid-pressure gauge. Skirt gauge.
- Gasoline gauge. Snap gauge.
- Grinding gauge. Surface gauge.
- Hammer gauge. Tank gauge.
- Heel gauge. Tank-registering gauge.
- Hole gauge. Thickness gauge.
- Indicating gauge. Tire gauge.
- Indicator gauge. Tire-pressure gauge.
- Inflating gauge. Track gauge.
- Inside gauge. Universal gauge.
- Internal-circumference gauge. Vacuum gauge.
- Lamp gauge. Vapor-regulator gauge.
- Lever-limit gauge. Visible fluid gauge.
- Line gauge. Watch-crystal gauge.
- Lining gauge. Water gauge.
- Water-level gauge.

- Gauge. A. O. Abbott, Jr. No. 1,409,907; Mar. 21.
 Gauge. C. C. Allen. No. 1,419,004; June 6.
 Gauge. E. L. Aschenbach. No. 1,414,165; Apr. 25.
 Gauge. H. E. Clifford and R. H. C. Grunewald. No. 1,438,634; Dec. 12.
 Gauge. V. L. Darnell. No. 1,402,056; Jan. 3.
 Gauge. A. L. De Leeuw. No. 1,416,694; May 23.
 Gauge. M. Dubowik. No. 1,411,685; Apr. 4.
 Gauge. W. A. Dunkum. No. 1,432,979; Oct. 24.
 Gauge. D. C. Egbert. No. 1,403,804; Jan. 10.
 Gauge. J. A. Green. No. 1,433,076; Oct. 24.
 Gauge. A. M. Guillet. No. 1,428,690; Sept. 12.
 Gauge. J. Harris. No. 1,437,176; Nov. 28.
 Gauge. R. H. Henemier. No. 1,411,727; Apr. 4.
 Gauge. H. P. Kraft and M. C. Schweinert. No. 1,421,501; July 4.
 Gauge. J. Lippert. No. 1,403,795; Jan. 17.
 Gauge. R. H. Parker. No. 1,436,354; Nov. 21.
 Gauge. H. M. Rockwell. No. 1,415,054; May 9.
 Gauge. R. F. Runge. No. 1,435,501; Nov. 14.
 Gauge. A. A. Straub and E. B. Priebe. No. 1,402,187; Jan. 3.
 Gauge. H. Volis. No. 1,417,001; May 23.
 Gauge. I. F. Woodrow. No. 1,422,161; July 11.
 Gauge and aligning device, Combined slidable. E. L. Patterson. No. 1,407,803; Feb. 28.
 Gauge and straightener, Connecting-rod. F. W. Nuerwell. No. 1,408,023; Feb. 28.
 Gauge block. B. H. Blood. No. 1,407,833; Feb. 28.
 Gauge cock. H. A. Frackelton. No. 1,430,368; Sept. 26.
 Gauge-cock-operating tool. S. T. Kunkel. No. 1,422,771; July 11.
 Gauge-glass guard. C. A. Anderson. No. 1,434,645; Nov. 7.
 Gauge-hole cover. S. H. Brooks. No. 1,403,735; Jan. 17.
 Gauge mechanism, Break off. J. H. Matthews. No. 1,408,219; Feb. 28.
 Gauge, more particularly for use for gauging tapered holes. B. Draper. No. 1,428,948; Sept. 12.
 Gauge pin. E. L. Megill. No. 1,408,756; Mar. 7.
 Gauge, Pressure. A. B. Low. No. 1,403,429; Jan. 10.
 Gauge, Pressure. A. B. Low. No. 1,422,278; July 11.
 Gauge, Self-acting. R. Dédet. No. 1,407,388; Feb. 21.
 Gauges, formed bars, profile pieces, etc., Manufacturing counter pieces to. K. Rosak. No. 1,423,154; July 18.
 Gauges, Indicator for amplifying. F. L. Walter. No. 1,431,999; Oct. 17.
 Gauging and measuring instrument. F. A. G. Pirwitz. No. 1,424,941; Aug. 8.
 Gauging apparatus. A. G. Cooke. No. 1,424,556; Aug. 1.
 Gauging articles, Projection apparatus for. F. Twyman. No. 1,421,042; June 27.
 Gauging machine, Roll. B. M. Kent. No. 1,406,193; Feb. 14.
 Gauging wrench. H. W. Wallin. No. 1,410,432; Mar. 21.
 Gear. H. A. Pearce. No. 1,412,706; Apr. 11.
 Gear. C. V. Wright. No. 1,435,571; Nov. 14.
 Gear and screw cutting mechanism. J. P. Johnson. No. 1,406,985; Feb. 21.
 Gear and sheave, Combined. F. E. Turner. No. 1,409,204; Mar. 14.
 Gear and wheel puller. C. Willis. No. 1,409,506; Mar. 14.
 Gear assembly, Keyed. R. T. Hazelton. No. 1,438,036; Dec. 5.
 Gear case. C. Bethel. No. 1,419,351; June 13.
 Gear case. E. Kogler. No. 1,409,302; Mar. 14.
 Gear case for jackshafts. H. A. Houston. No. 1,428,846; Sept. 12.
 Gear case with members of stamped metallic plate easily removable and adjustable in length. E. M. Borgo. No. 1,402,044; Jan. 3.
 Gear casing. W. G. Burns. No. 1,431,721; Oct. 10.
 Gear casing. D. R. Scholes. No. 1,427,914; Sept. 5.
 Gear casing, Tractor. J. A. Snyder. No. 1,440,250; Dec. 26.
 Gear casings, Supporting mechanism for. F. A. Whitten. No. 1,406,316; Feb. 14.
 Gear, Change-speed. H. C. Blanc-Garin. No. 1,405,391; Feb. 7.
 Gear, Change-speed. A. Garelli. No. 1,425,002; Aug. 8.
 Gear, Change-speed. F. F. Haustgen. No. 1,413,114; Apr. 18.
 Gear, Change-speed. A. Savary. No. 1,423,458; July 18.
 Gear, Change-speed. M. Van Bakel. No. 1,414,063; Apr. 25.
 Gear, Change-speed. E. P. Wood. No. 1,411,232; Mar. 28.
 Gear, Change-speed. A. Zwyssig. No. 1,426,700; Aug. 22.
 Gear, Compensating. W. O. Lum. No. 1,434,063; Oct. 31.
 Gear construction. G. Fuegel and H. Schmid. No. 1,415,542; May 9.
 Gear-control attachment, Steering. O. Meill and P. Blumberg. No. 1,405,854; Feb. 7.
 Gear, Cushioned. A. C. Hamilton. No. 1,422,440; July 11.
 Gear cutter. M. Tibbetts. No. 1,411,390; Apr. 4.
 Gear cutting, Indexing in. F. R. Jones. No. 1,438,528; Dec. 12.
 Gear-cutting machine. J. E. Gleason. No. 1,406,001; Feb. 7.
 Gear-cutting machine. F. R. Jones. Nos. 1,438,529-30; Dec. 12.
 Gear-cutting machine. A. L. Stewart and E. Finsen. No. 1,403,526; Jan. 17.
 Gear-cutting machine. L. A. Woodard and H. H. Talbot. No. 1,421,116; June 27.
 Gear-cutting machine. I. H. Wright. No. 1,423,062; July 18.
 Gear-cutting machine, Multiple. J. L. Perkins, F. W. Sickles, and J. Oakley. No. 1,409,766; Mar. 14.
 Gear-cutting machine, Multiple. J. L. Perkins, F. W. Sickles, and J. Oakley. No. 1,430,252; Sept. 26.
 Gear cutting, slotting, and like machine. J. H. Melloy and W. J. Owen. No. 1,422,462; July 11.
 Gear, Differential. R. L. Dodge. No. 1,431,572; Oct. 10.
 Gear, Differential. D. E. Ross. No. 1,429,100; Sept. 12.
 Gear, Draft. A. C. Davidson. No. 1,410,736; Mar. 28.
 Gear-driving mechanism. G. L. McCain. No. 1,434,620; Nov. 7.
 Gear, Epicyclic. W. G. Wilson. No. 1,404,675; Jan. 24.
 Gear-generating machine. A. Alexay. No. 1,408,792; Mar. 7.
 Gear guard. H. Dalton. No. 1,408,866; Mar. 7.
 Gear, Harrow draft. T. E. Marshall. No. 1,435,075; Nov. 7.
 Gear housing. J. A. Neathammer. No. 1,423,675; July 25.
 Gear-indexing mechanism. M. O. Cross. No. 1,426,552; Aug. 22.
 Gear indicator. T. Farmer, Jr. No. 1,417,048; May 23.
 Gear, Involute-toothed. J. C. O'Brien. No. 1,412,889; Apr. 18.
 Gear, Lever-ratchet. C. Schürmann. No. 1,436,407; Nov. 21.
 Gear, Locomotive valve. E. T. Diden. No. 1,404,936; Jan. 31.
 Gear-making machine. J. F. Crawford. No. 1,428,219; Sept. 5.
 Gear material. J. M. Taylor. No. 1,438,875; Dec. 12.
 Gear mechanism, Change. C. Bouillon. No. 1,415,515; May 9.
 Gear mechanism, Change-speed. H. J. Mansell and C. D. Fry. No. 1,421,799; July 4.
 Gear, Molded. F. H. Tupper. No. 1,424,267; Aug. 1.
 Gear, Motor-vehicle steering. W. Bowker. No. 1,438,809; Dec. 12.
 Gear particularly applicable to carding engines, Reversing. R. Taylor. No. 1,410,966; Mar. 28.
 Gear, Planetary. O. R. Wikander. No. 1,425,430; Aug. 8.
 Gear puller. C. P. Brockway. No. 1,436,081; Nov. 21.
 Gear puller. G. L. Hunt. No. 1,435,397; Nov. 14.
 Gear rack. G. F. Cane. No. 1,424,237; Aug. 1.
 Gear, Ratchet-wheel. O. Hajek. No. 1,404,604; Jan. 24.
 Gear remover or plion puller. G. T. McClarran. No. 1,417,265; May 23.
 Gear, Running. G. R. Richardson. No. 1,423,153; July 18.
 Gear, Running. E. R. Shnablen and J. R. Quinn. No. 1,431,699; Oct. 10.
 Gear, Running. C. O. Wyman. No. 1,425,734; Aug. 15.
 Gear, Safety friction. C. A. Schlafly. No. 1,427,025; Aug. 22.
 Gear shift. H. S. Myers. No. 1,414,038; Apr. 25.
 Gear-shift control, Automatic. J. S. Alspaugh. No. 1,413,561; Apr. 25.
 Gear-shift-controlling mechanism. F. C. Higgins. No. 1,416,466; May 16.
 Gear-shift indicator. A. Raich. No. 1,427,415; Aug. 29.
 Gear-shift-lever lock. E. W. Seaholm. No. 1,406,231; Feb. 14.
 Gear-shift levers and the like, Lock for. J. Drexler. No. 1,437,795; Dec. 5.
 Gear-shift lock. G. B. M. Gray. No. 1,422,353; July 11.
 Gear-shift-locking mechanism. A. V. E. S. Berry. No. 1,407,458; Feb. 21.
 Gear shift, Mechanical. G. T. Randol. No. 1,419,518; June 13.
 Gear shift, Mechanical. W. D. Schmidt. No. 1,411,748; Apr. 4.
 Gear-shift mechanism. J. S. Alspaugh. No. 1,431,207; Oct. 10.
 Gear-shift mechanism. E. B. Wiles. No. 1,424,790; Aug. 8.
 Gear shifter. W. G. Stevens, Jr. No. 1,417,213; May 23.
 Gear-shifting mechanism. J. S. Alspaugh. No. 1,402,131; Jan. 3.
 Gear-shifting mechanism. N. M. Lower. No. 1,404,984; Jan. 31.
 Gear-shifting mechanism. D. Noble. No. 1,404,049; Jan. 17.
 Gear-shifting mechanism. F. H. Ragan. No. 1,432,902; Oct. 24.
 Gear-shifting mechanism. W. C. Stevens. No. 1,424,784; Aug. 8.
 Gear-shifting mechanism. W. C. Stevens. No. 1,439,924; Dec. 26.
 Gear-shifting mechanism. G. W. Woodward. No. 1,425,227; Aug. 8.
 Gear-shifting mechanism. H. T. Woolson. No. 1,434,643; Nov. 7.
 Gear-shifting mechanism, Electric. F. H. Gibson. No. 1,433,130; Oct. 24.
 Gear, Speed-changing. A. E. Cook and T. Van Tuyl. No. 1,417,797; May 30.
 Gear, Speedometer driving. E. D. Myers. No. 1,420,054; June 20.
 Gear, Speed-reduction. L. E. G. Buehler. No. 1,408,689; Mar. 7.

Alphabetical list of inventions—Continued.

- Gear, Steering. J. R. Clark and H. A. Flogaus. No. 1,415,798; May 9.
- Gear, Steering. A. Hansen. No. 1,403,318; Jan. 10.
- Gear structure, Differential-. C. E. Mills. No. 1,409,389; Mar. 14.
- Gear structure, Reverse-. C. E. Mills. No. 1,415,673; May 9.
- Gear system, Intermittently-operating. J. L. Adams, Jr. No. 1,409,900; Mar. 21.
- Gear system, Transmission-. W. F. Penrod. No. 1,424,210; Aug. 1.
- Gear teeth, Machine for rounding the ends of. V. Colliau. No. 1,410,657; Mar. 28.
- Gear tooth. F. J. Bostock and S. Bramley-Moore. No. 1,434,987; Nov. 7.
- Gear, Transmission. C. Bearens. No. 1,420,514; June 20.
- Gear, Transmission. L. J. Mobley and A. V. Hays. No. 1,424,208; Aug. 1.
- Gear, Transmission. C. H. Taylor and B. B. Neuteboom. No. 1,433,575; Oct. 31.
- Gear, Transmission. T. von Zweigbergk. No. 1,403,658; Jan. 17.
- Gear transmission, Automatic gear-shifting mechanism for sliding. E. A. Thompson. No. 1,435,430; Nov. 14.
- Gear two toothed gears, Device for automatically and gradually throwing into. G. Fornaca. No. 1,403,022; Jan. 10.
- Gear, Variable-speed. P. A. Amundson. No. 1,422,072; July 11.
- Gear, Variable-speed. E. L. Firth. No. 1,409,536; Mar. 14.
- Gear, Variable-speed. P. G. Tacchi. No. 1,408,421; Feb. 28.
- Gear wheel. E. L. Aiken. No. 1,427,892; Sept. 5.
- Gear wheel. G. M. Eaton. No. 1,424,240; Aug. 1.
- Gear wheel. J. L. Florin. No. 1,422,351; July 11.
- Gear wheel. H. Keller. No. 1,424,203; Aug. 1.
- Gear wheel. A. Nutini. No. 1,425,042; Aug. 8.
- Gear wheel. J. C. Wegstein. No. 1,404,816; Jan. 31.
- Gear wheel. C. H. Willis. No. 1,436,787; Nov. 28.
- Gear wheel, Noiseless. M. O. Christenson. No. 1,427,721; Aug. 29.
- Gear wheel, Resilient. O. Kjelsberg. No. 1,412,355; Apr. 11.
- Gear wheels, Cutting longitudinally-curved teeth on. H. D. Williams. No. 1,404,504; Jan. 24.
- Gear wheels with helical or straight teeth, Machine for cutting bevel. V. G. Dartois. No. 1,409,086; Mar. 7.
- Gearing. G. M. Cameron-Cowburn. No. 1,425,172; Aug. 8.
- Gearing. J. V. E. Erickson. No. 1,405,509; Feb. 7.
- Gearing. W. H. George. No. 1,419,247; June 13.
- Gearing. E. Glass. No. 1,427,374; Aug. 29.
- Gearing. C. L. Heisler. No. 1,415,556; May 9.
- Gearing. C. L. Heisler. No. 1,434,697; Nov. 7.
- Gearing. E. R. Huntley. No. 1,425,496; Aug. 8.
- Gearing. E. H. Hopper. No. 1,438,307; Dec. 12.
- Gearing. A. H. Leipert. No. 1,418,447; June 6.
- Gearing. A. F. Mackay. No. 1,403,430; Jan. 10.
- Gearing. T. H. Mars. No. 1,421,800; July 4.
- Gearing. C. E. J. Nilson. No. 1,432,609; Oct. 17.
- Gearing. J. W. Parker. No. 1,438,134; Dec. 5.
- Gearing. J. W. Pearson. No. 1,439,636; Dec. 19.
- Gearing. W. S. Pierce, Jr. No. 1,418,461; June 6.
- Gearing. J. C. Ross. No. 1,402,094; Jan. 3.
- Gearing. A. E. Schuette. No. 1,422,792; July 11.
- Gearing. H. Sieben. No. 1,423,037; July 18.
- Gearing. W. Stoeckicht. No. 1,416,905; May 23.
- Gearing. B. C. White. No. 1,425,304; Aug. 8.
- Gearing. J. Wilkinson and E. D. Dickinson. No. 1,403,531; Jan. 17.
- Gearing, Alternating rotary. F. E. Williamson. No. 1,420,599; June 20.
- Gearing, Automatic self-locking differential. K. P. MacDonald. No. 1,431,535; Oct. 10.
- Gearing, Belt. C. E. McGill. No. 1,437,767; Dec. 5.
- Gearing, Cam. H. J. Schmick. No. 1,422,000; July 4.
- Gearing, Change-speed. A. H. Asprooth. No. 1,430,526; Oct. 3.
- Gearing, Change-speed. A. Broadmeyer. No. 1,404,739; Jan. 31.
- Gearing, Change-speed. J. G. Fay. No. 1,428,326; Sept. 5.
- Gearing, Change-speed. M. C. Frins. No. 1,409,289; Mar. 14.
- Gearing, Change-speed. G. F. Pope. No. 1,410,347; Mar. 21.
- Gearing, Change-speed. G. Q. Seaman, Jr. No. 1,419,770; June 13.
- Gearing, Differential. F. E. Crawford. No. 1,404,836; Jan. 31.
- Gearing, Differential. F. V. Elbertz. No. 1,409,535; Mar. 14.
- Gearing, Differential. W. O. Isaacson. No. 1,435,473; Nov. 14.
- Gearing, Differential. B. Kosuboski. No. 1,409,347; Mar. 14.
- Gearing, Differential. J. Krohn. Nos. 1,413,855-6; Apr. 25.
- Gearing, Differential. A. T. Nogrady. No. 1,404,791; Jan. 31.
- Gearing, Differential. L. Pondelick. No. 1,431,036; Oct. 3.
- Gearing, Differential. R. L. Tolson. No. 1,437,692; Dec. 5.
- Gearing, Differential clutch. G. W. Myers. No. 1,406,211; Feb. 14.
- Gearing, Differential transmission. P. V. Troupe. No. 1,405,359; Jan. 31.
- Gearing, Epicycloidal. F. F. Dorsey. No. 1,435,821; Nov. 14.
- Gearing for milling machines, Adjustable. C. Gabrielson. No. 1,425,848; Aug. 15.
- Gearing, Friction. F. Ljungström. No. 1,406,665; Feb. 14.
- Gearing, Frictional tractor. A. E. Cain. No. 1,435,584; Nov. 14.
- Gearing, Intermittent-motion. J. Regen. No. 1,432,494; Oct. 17.
- Gearing, Magneto. C. B. Kirkham. No. 1,423,334; July 18.
- Gearing, Manually-controlled variable-speed transmission. R. Louat. No. 1,438,444; Dec. 12.
- Gearing, Manufacturing. A. H. Leipert. No. 1,412,185; Apr. 11.
- Gearing mechanism. M. Schuyler. No. 1,408,407; Feb. 28.
- Gearing, Power-transmission. W. G. and O. R. Humphreys. No. 1,419,383; June 13.
- Gearing, Reducing. E. G. Johanson. No. 1,427,599; Aug. 29.
- Gearing, Reduction. C. A. Schellens. No. 1,437,913; Dec. 5.
- Gearing, Reduction. H. F. Schmidt. No. 1,434,965; Nov. 7.
- Gearing, Reduction. W. E. Simpson. No. 1,432,090; Oct. 17.
- Gearing, Toothed. H. J. Schmick. No. 1,425,144; Aug. 8.
- Gearing, Toothed-wheel. J. de Freudenreich and A. Spoerry. No. 1,408,568; Mar. 7.
- Gearing, Transmission. P. H. Bailly. No. 1,410,445; Mar. 21.
- Gearing, Transmission. A. E. Osborn. No. 1,412,214; Apr. 11.
- Gearing, Transmission. G. W. Stone. No. 1,418,338; June 6.
- Gearing, Transmission. G. W. Youngs. No. 1,433,866; Oct. 31.
- Gearing, Variable-leverage. F. V. Elbertz. No. 1,406,627; Feb. 14.
- Gearing, Variable-speed. M. F. L. A. Aymard. No. 1,423,067; July 18.
- Gearing, Variable-speed. G. E. and C. A. Krantz. No. 1,429,439; Sept. 19.
- Gearing, Variable-speed. G. M. Linden and A. G. Hojer. No. 1,405,237; Jan. 31.
- Gearing, Variable-speed. E. M. Miller. No. 1,405,713; Feb. 7.
- Gearing, Windmill. J. F. Struble. No. 1,440,035; Dec. 26.
- Gearings, Casing for transmission. W. S. Wright. No. 1,430,346; Sept. 26.
- Gears and pinions, Method and means for inserting teeth in. W. D. Troutner. No. 1,406,110; Feb. 7.
- Gears, Apparatus for forming the teeth of bevel. F. M. Lewis. No. 1,412,311; Apr. 11.
- Gears, Apparatus for the control of variable-speed. C. ter Cock. No. 1,414,933; May 2.
- Gears by grinding, Forming. P. Brown and F. J. Bostock. No. 1,415,016; May 9.
- Gears, Cutting. H. D. Williams. No. 1,404,505; Jan. 24.
- Gears, Forming. T. B. Morris. No. 1,407,704; Feb. 28.
- Gears, Hob for worm. D. Fitzpatrick. No. 1,436,159; Nov. 21.
- Gears, Machine for cutting spiral bevel. J. H. Geffroy and P. Fleury. No. 1,403,113; Jan. 10.
- Gears, Machine for planing. E. H. Carroll. No. 1,436,431; Nov. 21.
- Gears or other articles from a shaft, Machine for forcing. E. C. Coston. No. 1,439,611; Dec. 19.
- Gears, Planing helical teeth more particularly for bevel. H. Brandenberger. No. 1,436,938; Nov. 28.
- Gears, Producing spur. F. W. England. No. 1,431,155; Oct. 10.
- Gears to shafts, Means for attaching. G. H. Follows. No. 1,403,309; Jan. 10.
- Gearless differential. W. R. Sheckler. No. 1,437,453; Dec. 5.
- Gelatin, Manufacturing sheets of. R. A. McQuitty. No. 1,407,075; Feb. 21.
- Gem. H. H. Welch. No. 1,421,329; June 27.
- Gem setting. B. Mestekin. No. 1,440,229; Dec. 26.
- Gem setting. J. Zalowitz. No. 1,421,339; June 27.
- Generating plant. E. P. Oswald. No. 1,415,385; May 9.
- Generator. See—
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| Acetylene generator. | Motor generator. |
| Current generator. | Oscillation generator. |
| Electric generator. | Ozone generator. |
| Electrical oscillation generator. | Portable oxyacetylene welding generator. |
| Electrostatic generator. | Power generator. |
| Fume generator. | Pressure generator. |
| Gas generator. | Radio oscillation generator. |
| Hydrocarbon generator. | Steam generator. |
| Magneto generator. | |
- Generator and motor support. A. N. Sammarone. No. 1,414,900; May 2.

- Generator driving. W. L. Conwell and W. I. Thomson. No. 1,439,797; Dec. 26.
- Generator regulator. A. F. Brotz. No. 1,434,365; Nov. 7.
- Generator stream lining. W. H. Kempton, B. J. Gudge, and F. P. Lauffer. No. 1,433,730; Oct. 31.
- Generators. Coking chamber for. P. Jaworski. No. 1,422,206; July 11.
- Generators, Means for starting and operating motor. J. C. Lincoln. No. 1,413,747; Apr. 25.
- Generators, Means of producing constant-current regulation of. O. A. Kenyon. No. 1,404,442; Jan. 24.
- Geographical location or movement of bodies, Method and apparatus for indicating the. W. W. Connors. No. 1,432,384; Oct. 17.
- Geographical location or movement of bodies, Method and apparatus for indicating the. W. W. Connors. No. 1,437,400; Dec. 5.
- Geological-fault guide. W. H. Sheppard. No. 1,425,705; Aug. 15.
- Geometric instrument. T. J. and W. J. Sullivan. No. 1,436,415; Nov. 21.
- Gig. J. D. Woods and D. J. Palmer. No. 1,422,805; July 11.
- Gill boxes, Cam-operating mechanism for. C. C. Hedrick. No. 1,418,568; June 6.
- Gin attachment. C. A. Hooton. No. 1,429,947; Sept. 26.
- Gin or linter saw teeth, Rotary cutter for forming or renewing. W. H. Camp and R. H. Butters. No. 1,419,917; June 20.
- Gin, Pneumatic disk. J. C. Garner. No. 1,406,635; Feb. 14.
- Gin, Pneumatic roller. J. C. Garner. No. 1,406,634; Feb. 14.
- Gin-rib structure. H. D. Clarke. No. 1,407,984; Feb. 28.
- Gins, Doffing mechanism for. A. A. Vardell. No. 1,426,689; Aug. 22.
- Ginger-ale settler. H. S. Nesbitt. No. 1,402,528; Jan. 3.
- Gip-cutting machine. J. L. Gjerseeth. No. 1,409,943; Mar. 21.
- Girder or frame. L. S. Lachman. No. 1,419,274; June 13.
- Girth, Reenforcing. J. W. Leslie. No. 1,437,525; Dec. 5.
- Girths, Machine for forming reenforcing. A. S. Kux. No. 1,424,831; Aug. 8.
- Gladstone bag. I. Silber. No. 1,434,967; Nov. 7.
- Gland, Ring-rolled. W. B. Sparks. No. 1,420,585; June 20.
- Glare-deflector. H. O. Hanna. No. 1,409,340; Mar. 14.
- Glare extinguisher. R. Pratt. No. 1,434,750; Nov. 7.
- Glare screen. R. T. Newton. No. 1,408,386; Feb. 28.
- Glass. F. M. Locke. No. 1,431,166; Oct. 10.
- Glass. E. C. Sullivan and W. C. Taylor. No. 1,408,145; Feb. 28.
- Glass. W. C. Taylor. No. 1,411,134; Mar. 28.
- Glass. W. C. Taylor. No. 1,414,715; May 2.
- Glass. W. C. Taylor and H. P. Gage. No. 1,411,133; Mar. 28.
- Glass and apparatus therefor. Grinding or polishing. F. E. Slocombe. No. 1,404,553; Jan. 24.
- Glass and making same. E. W. Enequist. No. 1,403,752; Jan. 17.
- Glass and the like substances, Method of and appliance for polishing. W. Taylor. No. 1,409,888; Mar. 14.
- Glass-annealing leer. Plate-. E. E. Milner and W. J. Lytle. No. 1,426,310; Aug. 15.
- Glass apparatus. J. F. Rule. No. 1,438,402; Dec. 12.
- Glass, Apparatus for and method of drawing sheet. J. P. Crowley. No. 1,428,533; Sept. 12.
- Glass, Apparatus for and method of drawing sheet. A. E. Fowle and J. P. Crowley. No. 1,435,958; Nov. 21.
- Glass, Apparatus for and method of producing charges of molten. L. D. Soubier. No. 1,428,994; Sept. 12.
- Glass, Apparatus for drawing sheet. J. Whittemore. No. 1,425,225; Aug. 8.
- Glass, Apparatus for feeding molten. K. E. Peiler. No. 1,405,936; Feb. 7.
- Glass, Apparatus for the production of spun. G. von Pazsiczky. No. 1,427,014; Aug. 22.
- Glass-article carrier. H. F. Clark. No. 1,405,757; Feb. 7.
- Glass articles and apparatus for carrying out the same, Forming. R. W. Erdle. No. 1,439,698; Dec. 26.
- Glass articles, Apparatus for manufacturing. W. J. Miller. No. 1,428,855; Sept. 12.
- Glass articles, Machine for the manufacture of. R. F. Hall. No. 1,408,939; Mar. 7.
- Glass articles, Method of and apparatus for finishing blown-. D. E. Gray. No. 1,409,847; Mar. 14.
- Glass-baking dish. G. D. Sailer. No. 1,413,063; Apr. 18.
- Glass-blowing machines, Initial puff mechanism for. J. Weisenberger. No. 1,410,857; Mar. 28.
- Glass bottles for chloride of ethyl and other volatile products, Means for closing. J. Bengué. No. 1,414,169; Apr. 25.
- Glass canes, Apparatus for the manufacture of. W. Westbury. No. 1,439,855; Dec. 26.
- Glass composition. H. T. Bellamy and B. F. Sweely. No. 1,415,980; May 19.
- Glass, Composition for coating. J. Walsh. No. 1,434,514; Nov. 7.
- Glass containers, Apparatus for testing. O. C. K. Hutchinson. No. 1,427,817; Sept. 5.
- Glass cutter. A. A. Arnold. No. 1,427,052; Aug. 22.
- Glass cutter. W. W. Ratcliff. No. 1,402,961; Jan. 10.
- Glass cutter. H. A. Ryther. No. 1,419,310; June 13.
- Glass cutter. J. R. Scohy. No. 1,411,524; Apr. 4.
- Glass cutter. J. R. Scohy. No. 1,435,985; Nov. 21.
- Glass cutter, Rotary. C. F. Doerr. No. 1,421,921; July 4.
- Glass cutter, Rotary. C. F. Doerr. No. 1,424,625; Aug. 1.
- Glass-cutting board. F. Bukachek and O. A. Garbush. No. 1,438,157; Dec. 5.
- Glass-cutting machine. J. A. Milliken. No. 1,402,457; Jan. 3.
- Glass-cutting mechanism. H. S. Deputy. No. 1,407,736; Feb. 28.
- Glass-cutting mechanism. R. La France. No. 1,439,368; Dec. 19.
- Glass-cutting square. H. E. Johnson. No. 1,415,650; May 9.
- Glass-cutting table. H. M. Barbeau. No. 1,410,153; Mar. 21.
- Glass-cylinder cutter. J. R. Scohy. No. 1,420,867; June 27.
- Glass-drawing apparatus. A. P. Whittemore. No. 1,415,133; May 9.
- Glass-drawing apparatus and drawing glass, Sheet-. J. R. Scohy. No. 1,420,868; June 27.
- Glass-drawing machine, Sheet-. O. M. Cox and C. C. Rose. No. 1,423,195; July 18.
- Glass-drawing mechanism, Sheet-. R. P. Callard. No. 1,402,145; Jan. 3.
- Glass, Embellishing. P. E. Correll. No. 1,437,131; Nov. 28.
- Glass-fastening device. M. Grossman. No. 1,428,955; Sept. 12.
- Glass, Field. E. K. Dunne. No. 1,428,478; Sept. 5.
- Glass-finishing machine. A. H. Heisey. No. 1,436,878; Nov. 28.
- Glass-finishing tool. A. J. Sanford. No. 1,436,825; Nov. 28.
- Glass-flow-off controller. F. O'Neill. No. 1,413,183; Apr. 18.
- Glass from a molten mass, Apparatus for gathering. A. C. Pilkington and J. Gaskell. No. 1,417,684; May 30.
- Glass furnaces and the like, Recuperator for. W. McLaughlin. No. 1,432,706; Oct. 17.
- Glass furnaces, Automatic electric heating device for. W. G. Clark. No. 1,420,181; June 20.
- Glass, Gauge. J. H. and W. J. Hanlon. No. 1,424,642; Aug. 1.
- Glass-grinding machine. H. M. Barbeau. No. 1,430,879; Oct. 3.
- Glass-grinding machine. E. A. Ryon. No. 1,429,106; Sept. 12.
- Glass-handling apparatus. E. G. Chase. No. 1,414,547; May 2.
- Glass holder, Drinking-. B. V. Czarnecki. No. 1,422,676; July 11.
- Glass holder, Water-gauge-. T. L. Berkeley. No. 1,407,627; Feb. 21.
- Glass in continuous sheets, Apparatus for the manufacture of. E. Rowart. No. 1,413,238; Apr. 18.
- Glass in continuous tank furnaces, Stirring molten. W. F. Brown. No. 1,414,008; Apr. 25.
- Glass machines, Vacuum capacity for. R. Le France. No. 1,413,742; Apr. 25.
- Glass manufacture. R. Good. No. 1,421,124; June 27.
- Glass, Manufacture of sheet. H. F. Clark. No. 1,424,155; Aug. 1.
- Glass-manufacturing machinery. S. E. Winder. No. 1,431,436; Oct. 10.
- Glass, Means for feeding charges of molten. R. La France. No. 1,439,369; Dec. 19.
- Glass, Means for guiding molten. R. La France. No. 1,416,725; May 23.
- Glass-melting tanks, Means for filling. S. B. Henshaw. No. 1,409,716; Mar. 14.
- Glass, Method and apparatus for drawing. C. P. Byrnes. No. 1,425,746; Aug. 15.
- Glass, Method and apparatus for drawing sheet. J. P. Crowley. No. 1,435,956; Nov. 21.
- Glass, Method and apparatus for drawing sheet. F. E. Deulin. No. 1,411,079; Mar. 28.
- Glass, Method and apparatus for drawing wire. C. A. Rowley. No. 1,425,218; Aug. 8.
- Glass, Method and apparatus for making. H. A. Myers. No. 1,413,766; Apr. 25.
- Glass, Method and apparatus for making continuous sheet. J. Whittemore. No. 1,436,421; Nov. 21.
- Glass, Method and apparatus for marvering. D. E. Gray and F. E. Bardrof. No. 1,410,803; Mar. 28.
- Glass, Method and apparatus for producing sheet. J. P. Crowley and C. A. Rowley. No. 1,422,036; July 4.
- Glass, Method of and apparatus for the manufacture of. R. Good. No. 1,421,210; June 27.
- Glass, Method and means for forming and transferring gobs of molten. J. F. Rule. No. 1,413,788; Apr. 25.
- Glass mold. T. A. Bragg. No. 1,439,355; Dec. 19.
- Glass, Obtaining. J. M. Said. No. 1,424,184; Aug. 1.
- Glass outlets, Closure for molten-. V. Mulholland. No. 1,421,810; July 4.
- Glass-plate manufacture. A. A. Icenhour. No. 1,407,036; Feb. 21.
- Glass presses, etc., Ring mold for. P. Kucera. No. 1,412,358; Apr. 11.
- Glass, Process and apparatus for feeding. W. J. Miller. No. 1,413,757; Apr. 25.

Alphabetical list of inventions—Continued.

- Glass, Process and apparatus for making sheet. J. C. Crowley. (Reissue.) No. 15,452; Sept. 12.
- Glass, Process of and mixture for making. A. L. D. d'Adrian. No. 1,430,725; Oct. 3.
- Glass, Producing nonshatterable. O. S. Marckworth. No. 1,421,974; July 4.
- Glass sheets or like articles, Machine for cutting. J. Waterloo. No. 1,439,043; Dec. 19.
- Glass surfaces and preparing same, Frost and obscuring condensation preventive. P. Sherman. No. 1,410,839; Mar. 28.
- Glass surfaces, Composition for preventing the accumulation of moisture on. W. H. Brabant. No. 1,404,829; Jan. 31.
- Glass tanks, Faucet for. W. R. Smith. No. 1,439,198; Dec. 19.
- Glass tanks, Means for controlling discharge from. E. S. Hutton. No. 1,423,220; July 18.
- Glass to molds, Apparatus for feeding. E. T. Ferngren. No. 1,414,561; May 2.
- Glass to molds, Means of transferring. L. D. Soubier. No. 1,439,384; Dec. 19.
- Glass, Treating and working. E. T. Ferngren. No. 1,415,824; May 9.
- Glass-treating fabric and emulsion. A. L. Clapp. No. 1,411,409; Apr. 4.
- Glassware, Apparatus for annealing. I. H. Freese. No. 1,439,305; Dec. 19.
- Glass-washing apparatus. C. E. Seeley. No. 1,436,861; Nov. 21.
- Glassware, Conveyor for heated. A. Samuelson. No. 1,414,212; Apr. 25.
- Glassware-ejecting mechanism. E. H. Lorenz and K. E. Peiler. No. 1,406,045; Feb. 7.
- Glassware, Machine for making hollow. J. B. Graham. No. 1,405,204; Jan. 31.
- Glassware to leers mechanism for transferring. R. La France. No. 1,413,741; Apr. 25.
- Glass-working machines, Ware steadier for. J. W. Lynch. No. 1,406,400; Feb. 14.
- Glassworking mechanism. N. W. Hartman. No. 1,407,800; Feb. 28.
- Glasses and the like, Fastening means for instrument. H. H. Boyce. No. 1,430,721; Oct. 3.
- Glasses and vessels, Washer for drinking. F. Boesser. No. 1,433,337; Oct. 24.
- Glasses for flyers, casters, welders, etc., Protective. N. R. G. Ekwall. No. 1,415,536; May 9.
- Glasses for preserved fruits and the like, Closure for. H. Schwieger, née Kipp. No. 1,427,128; Aug. 29.
- Glasses, Machine for angular-grinding spectacle. O. Henker. No. 1,409,546; Mar. 14.
- Glasses, Machine for cutting noncircular. A. Steinle. No. 1,418,492; June 6.
- Glasses, Machine for grinding beveled rim surfaces on spectacle. O. Henker. No. 1,422,055; July 4.
- Glazing construction. F. Eberl. No. 1,411,882; Apr. 4.
- Globe, Geographical. M. H. E. Beckley. No. 1,419,604; June 13.
- Globe holder. H. E. Ruttle. No. 1,437,448; Dec. 5.
- Globe support. A. Bongiovanni. No. 1,436,474; Nov. 21.
- Globe retainer. G. Woodliff, Jr., and J. N. May. No. 1,412,588; Apr. 11.
- Globe, Spherical. W. J. Corbett. No. 1,409,082; Mar. 7.
- Globes and reflectors for indirect and concentrated lighting, Suspension device for. O. P. Cramer. No. 1,414,627; May 2.
- Globes, Holder for. B. Newland. No. 1,417,939; May 30.
- Glove. S. A. Guerin. No. 1,424,639; Aug. 1.
- Glove. A. Kyle. No. 1,437,318; Nov. 28.
- Glove. J. W. Lynn. No. 1,404,453; Jan. 24.
- Glove. R. Mizuno. No. 1,404,214; Jan. 24.
- Glove. J. Scharman. No. 1,404,655; Jan. 24.
- Glove. J. A. Smith. No. 1,418,103; May 30.
- Glove and making same. G. P. Bosworth. No. 1,424,072; July 25.
- Glove and mitten, Combined. M. L. Lipson. No. 1,404,398; Jan. 24.
- Glove attachment. A. Lenneberg. No. 1,416,653; May 16.
- Glove, Baseball. B. Kennedy. No. 1,435,478; Nov. 14.
- Glove, Baseball. R. Raymond. No. 1,421,308; June 27.
- Glove, Baseball. W. P. Whitely. No. 1,436,131; Nov. 21.
- Glove, Fielder's. W. L. Doak. No. 1,426,824; Aug. 22.
- Glove, Gauntlet. O. R. G. Mühlenbruch. No. 1,433,145; Oct. 24.
- Glove, Ice-skater's. N. T. Fogg. No. 1,402,346; Jan. 3.
- Glove-knitting mechanism. G. P. Bosworth. No. 1,428,318; Sept. 5.
- Glove or mitten. C. E. Young. No. 1,426,029; Aug. 15.
- Glove, Reversible. J. L. Speer. No. 1,423,546; July 25.
- Glove, Scrubbing. A. E. Pinson. No. 1,403,817; Jan. 17.
- Glove, Swimmer's. J. B. Ingram. No. 1,437,310; Nov. 28.
- Glove, Swimming. H. F. J. Clarke. No. 1,413,967; Apr. 25.
- Gloves, Handkerchief retainer for. E. D. Wangelin. No. 1,426,797; Aug. 22.
- Glowlamps, Exhausting and sealing electrical. K. Finckh. No. 1,410,665; Mar. 28.
- Glue and the like from glue material, Making. O. Röhm. No. 1,405,741; Feb. 7.
- Glue, Apparatus for manufacturing. C. H. Crowell. No. 1,401,965; Jan. 3.
- Glue applicator. W. E. Bowersock. No. 1,439,464; Dec. 19.
- Glue, gelatine, and the like, Apparatus for the extraction of. F. H. Tunnell. No. 1,421,620; July 4.
- Glue mixing and preserving apparatus. E. B. Applegate and W. H. Yeomans. No. 1,422,811; July 18.
- Glue roll. P. Zalkind. No. 1,421,654; July 4.
- Gluer for blanks. L. E. La Bombard and W. H. Sidebotham. No. 1,412,471; Apr. 11.
- Gluer, Top. L. E. La Bombard and M. H. Sidebotham. No. 1,423,567; July 25.
- Gluing clamp and drier. F. Diehl. No. 1,420,244; June 20.
- Gluing machine. W. A. Weightman and C. H. Nitsch. No. 1,437,285; Nov. 28.
- Gluing sheets edge to edge, Method of and apparatus for. G. R. Meyerord. No. 1,418,597; June 6.
- Gluing strips edge to edge, Machine for. A. Elmendorf. No. 1,436,023; Nov. 21.
- Glycerin by fermentation, Production of. A. T. Cocking and C. H. Lilly. No. 1,425,838; Aug. 15.
- Glycerin from the weak glycerinous liquors obtained in fermentation processes, Continuous distillation of. E. A. Barbet. No. 1,416,318; May 16.
- Glycerin, Recovering. J. A. Steffens. No. 1,423,042; July 18.
- Glycol, Making. W. H. Rodebush. No. 1,402,317; Jan. 3.
- Gocart, Child's. H. O. Herrmann. No. 1,411,496; Apr. 4.
- Gocart, Collapsible. H. R. Olsen. No. 1,429,966; Sept. 26.
- Gocart, Collapsible. G. B. Scarlett. No. 1,409,787; Mar. 14.
- Gocart, Folding. C. A. Pippin. No. 1,409,312; Mar. 14.
- Gocart, Folding. A. N. Fleury and C. F. Mayer. No. 1,434,535; Nov. 7.
- Gocarts and invalid chairs, Robe for children's. E. R. C. Buchard. No. 1,423,908; July 25.
- Goggles. F. H. Day. No. 1,408,349; Feb. 28.
- Goggles. G. W. King. No. 1,405,787; Feb. 7.
- Goggles. E. B. Meyrowitz. No. 1,432,406; Oct. 17.
- Goggles, Bright and black. L. W. Bugbee. No. 1,420,964; June 27.
- Goggles, Eye. H. S. Cover. No. 1,433,676; Oct. 31.
- Gold and apparatus therefor, Recovering. O. C. Knipe. No. 1,426,746; Aug. 22.
- Gold and other precious metals, Device for saving. S. J. Marsh. No. 1,429,750; Sept. 19.
- Gold pan. E. O. C. Ord. No. 1,419,405; June 13.
- Gold-leaf character and preparing the same, Indestructible. A. Devore. No. 1,417,596; May 30.
- Gold-saving machine, Fine. R. Fergusson. No. 1,435,825; Nov. 14.
- Gold-saving machine, Portable. H. S. Back. No. 1,439,055; Dec. 19.
- Gold washing and saving apparatus. E. C. Rowdon. No. 1,430,592; Oct. 3.
- Golf and link bag. C. G. Barthwick. No. 1,410,989; Mar. 28.
- Golf apparatus. E. E. Winkley. No. 1,407,109; Feb. 21.
- Golf appliance and exercising device. H. W. Smith. No. 1,439,338; Dec. 19.
- Golf bag. R. F. Hanaford. No. 1,414,875; May 2.
- Golf bag. N. Nesser. No. 1,424,317; Aug. 1.
- Golf bag. C. Marwood and A. Kidd. No. 1,434,621; Nov. 7.
- Golf bag. A. Wells. No. 1,409,323; Mar. 14.
- Golf-bag ball receptacle. C. B. Kemp. No. 1,421,955; July 4.
- Golf bag, Self-supporting. E. G. Watrous. No. 1,404,559; Jan. 24.
- Golf-ball ejector. G. W. Waddell. No. 1,402,026; Jan. 3.
- Golf balls, Treating. H. A. Hoffman. No. 1,405,845; Feb. 7.
- Golf club. C. W. Booth. No. 1,412,650; Apr. 11.
- Golf club. J. H. Boye. No. 1,437,463; Dec. 5.
- Golf club. A. Craig. No. 1,429,569; Sept. 19.
- Golf club. C. W. Dayton. No. 1,436,579; Nov. 21.
- Golf club. J. A. Denner. No. 1,428,015; Sept. 5.
- Golf club. F. L. Plant. No. 1,409,966; Mar. 21.
- Golf club. M. B. Reach. No. 1,433,150; Oct. 24.
- Golf club. H. M. Rhind. No. 1,433,744; Oct. 31.
- Golf club. C. H. Rodwell. No. 1,420,946; June 27.
- Golf club. W. B. Stout. No. 1,409,612; Mar. 14.
- Golf club. S. Tousey. Nos. 1,418,038-9; May 30.
- Golf-club carrier. E. Moore, jr. No. 1,437,349; Nov. 28.
- Golf-club carrier. R. S. Parmater. No. 1,418,093; May 30.
- Golf-club head. C. L. Lawton. No. 1,431,313; Oct. 10.
- Golf-club head. M. B. Reach. No. 1,402,537; Jan. 3.
- Golf-club rack. A. F. Robertson and G. J. Moe. No. 1,404,893; Jan. 31.
- Golf-club separator. H. F. Hatch. No. 1,417,380; May 23.
- Golf clubs, Insert for. G. W. Mattern. No. 1,435,318; Nov. 14.
- Golf clubs and the like, Bag or carrier for. H. G. Kerlogue. No. 1,438,311; Dec. 12.
- Golf clubs and the like, Shaft for. A. E. Lard. No. 1,426,202; Aug. 15.
- Golf clubs, Head for. A. A. Kraeuter. No. 1,413,854; Apr. 25.
- Golf clubs, Striker plate for. G. A. Lippincott. No. 1,423,341; July 18.
- Golf, Device for use in playing. V. S. Flood. No. 1,418,637; June 6.
- Golf head. D. S. Griffin. No. 1,414,124; Apr. 25.

- Golf or caddy bag. A. Rothschild. No. 1,438,263; Dec. 12.
- Golf players, Test and practice apparatus for. J. M. MacDonald. No. 1,419,636; June 13.
- Golf-practice apparatus. R. Gray. No. 1,437,591; Dec. 5.
- Golf-practice net. J. R. Bolton. No. 1,430,280; Sept. 26.
- Golf practicing and exercising device. H. W. Smith. No. 1,439,339; Dec. 19.
- Golf-practicing apparatus. E. M. Long. No. 1,427,538; Aug. 29.
- Golf putting, Artificial hole for indoor. E. M. Long. No. 1,427,537; Aug. 29.
- Golf stand. G. W. Frey. No. 1,408,876; Mar. 7.
- Golf-stick handle. W. C. Yerger. No. 1,419,795; June 13.
- Golf-stroke counter. A. Deichmann. No. 1,421,070; June 27.
- Golf-stroke-guiding device. D. W. Flint. No. 1,414,012; Apr. 25.
- Golf strokes, Device for instruction in. J. D. Edgar. No. 1,409,688; Mar. 14.
- Golf tee. J. W. Sibbald. No. 1,413,496; Apr. 18.
- Golf tee. W. L. Walker. No. 1,436,222; Nov. 21.
- Golf training, exercising, and practicing apparatus. E. M. Long. No. 1,427,536; Aug. 29.
- Golfing appliance. C. J. McDermott. No. 1,431,968; Oct. 17.
- Goods, Means for raising and lowering. F. J. Drysdale. No. 1,434,880; Nov. 7.
- Gopher trap. J. F. Koukal. No. 1,404,032; Jan. 17.
- Governing mechanism. A. T. Kasley. No. 1,440,224; Dec. 26.
- Governing mechanism, Centrifugal. W. W. Dean. No. 1,431,379; Oct. 10.
- Governor. E. J. Anderson. No. 1,402,994; Jan. 10.
- Governor. W. K. Andrew. No. 1,405,178; Jan. 31.
- Governor. E. J. Blake. No. 1,421,660; July 4.
- Governor. W. F. Bouché. No. 1,415,981; May 16.
- Governor. L. O. Christmann. No. 1,407,126; Feb. 21.
- Governor. A. J. Donovan and F. Pokorny, jr. (Reissue.) No. 15,492; Nov. 21.
- Governor. J. H. Doran. No. 1,411,991; Apr. 4.
- Governor. R. Espie. No. 1,410,742; Mar. 28.
- Governor. T. Hall. No. 1,438,824; Dec. 12.
- Governor and indicator. N. B. Converse. No. 1,411,412; Apr. 4.
- Governor, Automatic speed. J. and W. S. Binfield. No. 1,433,596; Oct. 31.
- Governor, Centrifugal. W. W. Dean. No. 1,431,377; Oct. 10.
- Governor, Centrifugal. H. S. Hasselquist. No. 1,407,413; Feb. 21.
- Governor-controlled or force feed for oil engines. C. V. Fite and C. C. Coddington. No. 1,439,625; Dec. 19.
- Governor, Engine. T. B. Funk and C. M. Eason. No. 1,410,462; Mar. 21.
- Governor for electric circuits. E. J. Tomlinson. No. 1,415,496; May 9.
- Governor for electrical circuits. E. J. Tomlinson. No. 1,415,495; May 9.
- Governor for internal-combustion engines, Speed. J. A. Zuehlke. No. 1,409,639; Mar. 14.
- Governor for internal-combustion motors. E. Knauss. No. 1,436,963; Nov. 28.
- Governor for self-feeders, Speed. N. R. Krause. No. 1,425,782; Aug. 15.
- Governor for tractor engines. C. G. Hartley. No. 1,409,170; Mar. 14.
- Governor, High pressure automatic burner. W. R. Ray. No. 1,425,338; Aug. 8.
- Governor, Internal-combustion-engine. C. A. Welling. No. 1,411,650; Apr. 4.
- Governor, Marine-engine. T. Jackson. Nos. 1,413,585-6; Apr. 25.
- Governor, Motor. G. A. Strom. No. 1,429,795; Sept. 19.
- Governor oil. J. H. Doran. No. 1,411,992; Apr. 4.
- Governor, Speed. S. M. Kintner. No. 1,409,553; Mar. 14.
- Governor, Suction-controlled. L. A. La Fond. No. 1,411,735; Apr. 4.
- Governor, Variable-speed. T. B. Funk and C. M. Eason. No. 1,410,463; Mar. 21.
- Governors, Adjusting device for throttle. O. B. Whisenand. No. 1,424,270; Aug. 1.
- Governors, Automatic shut-down device for pressure. M. Haerberlein. No. 1,411,348; Apr. 4.
- Grab. J. M. Wellington and D. G. Mackenzie. No. 1,416,768; May 23.
- Grab-bucket construction, Single-line. A. M. Shearer. No. 1,422,003; July 4.
- Grabber, Bowlder. E. T. Haun. No. 1,439,549; Dec. 19.
- Grader. C. J. Clear. No. 1,427,264; Aug. 29.
- Grader. H. L. Dever. No. 1,422,754; July 11.
- Grader. F. W. Schweitzer. No. 1,413,687; Apr. 25.
- Grader and material transporting vehicle, Combined. J. T. Leinberger and J. L. Roth. No. 1,415,880; May 16.
- Grader and packer, Road. E. Hayford. No. 1,406,553; Feb. 14.
- Grader blade. A. Anderson and C. O. Wold. No. 1,406,325; Feb. 14.
- Grader, Potato. S. A. Adamson. No. 1,409,353; Mar. 14.
- Grader, Road. R. S. Bates. No. 1,405,256; Jan. 31.
- Grader, Road. F. B. King. No. 1,413,664; Apr. 25.
- Grading and excavating machines, Scoop-attaching means for. P. M. Cadwell. No. 1,410,162; Mar. 21.
- Grading apparatus. R. W. and W. V. Beal. No. 1,437,884; Dec. 5.
- Grading machine. H. L. Dever. No. 1,422,753; July 11.
- Grading machine. W. E. McCain. No. 1,406,743; Feb. 14.
- Grading machine. F. R. Morton. No. 1,435,413; Nov. 14.
- Grading machine. S. W. Parker. No. 1,431,030; Oct. 3.
- Grading machine. E. Prendergast. No. 1,421,559; July 4.
- Grading machine. R. E. Reynolds. No. 1,432,906; Oct. 24.
- Grading machine, Road-. P. J. Oswald. No. 1,431,594; Oct. 10.
- Grading material, Grizzly or screen for. W. Ross. No. 1,414,156; Apr. 25.
- Grading or screening materials. R. S. Jacobsen. No. 1,403,326; Jan. 10.
- Gradometer. D. P. Corcoran. No. 1,422,743; July 11.
- Grailling machine. A. S. Donaldson. No. 1,426,364; Aug. 22.
- Grain and bean feeder. F. R. Skinner. No. 1,435,342; Nov. 14.
- Grain and a product for effecting the same, Cooking. H. M. Greene. No. 1,424,132; July 25.
- Grain and seed grader and separator. E. D. Eddy. No. 1,430,293; Sept. 26.
- Grain and soil treating process and apparatus, Antismut. J. H. Mitchell. No. 1,409,564; Mar. 14.
- Grain, Apparatus for unloading. C. Bentham. No. 1,407,510; Feb. 21.
- Grain bin. F. R. Edwards. No. 1,415,816; May 9.
- Grain bin. A. D. W. Johnson. No. 1,419,142; June 13.
- Grain bin. R. C. Stone. No. 1,438,275; Dec. 12.
- Grain-bin door and door frame. L. H. Dickelman. No. 1,419,236; June 13.
- Grain bin, Drying. J. F. Green. No. 1,417,316; May 23.
- Grain blower. J. F. Vallentyne. No. 1,412,031; Apr. 4.
- Grain, Bulk storage and handling of. W. H. Bull. No. 1,406,928; Feb. 14.
- Grain carrier. O. B. Hall. No. 1,423,609; July 25.
- Grain chute. H. W. Davissou. No. 1,428,763; Sept. 12.
- Grain chute. J. Westfall. No. 1,437,459; Dec. 5.
- Grain cleaner. F. Fowler. No. 1,426,270; Aug. 15.
- Grain cleaner. C. Mettler, Sr. (Reissue.) No. 15,275; Jan. 24.
- Grain-cleaning machine. T. W. Humphries and L. E. Mackenzie. No. 1,428,093; Sept. 5.
- Grain conveyer. J. W. Montague and V. G. Patrick. No. 1,420,726; June 27.
- Grain cradle. G. W. Brown. No. 1,419,609; June 13.
- Grain crib. W. A. Caldwell. No. 1,421,763; July 4.
- Grain crib. G. B. Read. No. 1,428,710; Sept. 12.
- Grain-cut-off holder, Automatic. H. M. Lehr. No. 1,401,991; Jan. 3.
- Grain cutting and grading machine. O. P. Smith. No. 1,403,455; Jan. 10.
- Grain door. C. H. Licht. No. 1,432,879; Oct. 24.
- Grain door forcing device. W. H. McGann. (Reissue.) No. 15,306; Mar. 14.
- Grain-door forcing device. W. A. McGann. (Reissue.) No. 15,397; July 4.
- Grain drill. C. L. Fowle and W. Bills. No. 1,413,845; Apr. 25.
- Grain drills, Hopper construction for. H. B. Bozard. No. 1,404,510; Jan. 24.
- Grain, Dry-pickling seed. A. A. Lawrence. No. 1,409,144; Mar. 7.
- Grain elevator. O. H. Brown. No. 1,422,534; July 11.
- Grain elevator. W. B. Hauter. No. 1,437,415; Dec. 5.
- Grain elevator. W. McMeans. No. 1,434,134; Oct. 31.
- Grain elevator. R. C. Stone. No. 1,433,754; Oct. 31.
- Grain elevators, Nonchokable boot for. J. G. Wears. No. 1,440,257; Dec. 26.
- Grain-feeding spreader. R. L. Owens. No. 1,422,297; July 11.
- Grain-grinding machine. J. K. Strachan. No. 1,423,275; July 18.
- Grain-handling means. E. C. Starnes and E. C. Willis. No. 1,405,692; Feb. 7.
- Grain mill. M. Povilaitis. No. 1,436,404; Nov. 21.
- Grain-milling machine. J. B. Righter. No. 1,429,908; Sept. 19.
- Grain separator. C. W. Carter. No. 1,437,042; Nov. 28.
- Grain separator. F. H. Vaughn. No. 1,428,926; Sept. 12.
- Grain pan, Rotary. R. C. Himmel. No. 1,402,068; Jan. 3.
- Grain-polishing device. W. C. Brenner. No. 1,408,978; Mar. 7.
- Grain-saving device. A. G. Norskog. No. 1,415,684; May 9.
- Grain separator. H. Downing. No. 1,405,766; Feb. 7.
- Grain separator. D. Hryniewicz. No. 1,415,568; May 9.
- Grain-separator. W. T. Merzenich. No. 1,416,489; May 16.
- Grain separator. R. L. Owens. Nos. 1,422,298-9; July 11.
- Grain shoe. H. W. Campbell. No. 1,416,331; May 16.
- Grain-spout holder. E. C. Starnes and E. C. Willis. No. 1,410,132; Mar. 21.
- Grain stacker. I. Birkeland. No. 1,430,784; Oct. 3.
- Grain-washing machine. C. F. Miller and R. R. Lee. No. 1,403,092; Jan. 10.
- Grain weigher. F. J. Ashwell. No. 1,409,612; Mar. 14.
- Graining tool. F. A. Gstaider. No. 1,407,150; Feb. 21.
- Gramophone. J. Butler. No. 1,408,798; Mar. 7.
- Gramophone. G. Yamanouchi. No. 1,407,111; Feb. 21.

Alphabetical list of inventions—Continued.

- Gramophone and like sound-producing instrument. J. Jofeh. No. 1,427,211; Aug. 29.
- Gramophone, Collapsible. J. Green. No. 1,429,340; Sept. 19.
- Gramophone-record brush. J. Priespilis. No. 1,414,302; Apr. 25.
- Gramophones, Automatic stop for. O. O. Storle. No. 1,423,044; July 18.
- Gramophones, Soundbox of. A. T. R. Cotton. No. 1,409,047; Mar. 7.
- Grandstand. G. Hadden. No. 1,433,547; Oct. 31.
- Granules, Coated. C. P. McNeil. No. 1,421,271; June 27.
- Grape juice. G. L. Johnston. No. 1,427,902; Sept. 5.
- Grape-juice product. G. L. Johnston. No. 1,427,903; Sept. 5.
- Graph, Flexible. R. E. Fox. No. 1,420,249; June 20.
- Graphic recorder. C. B. Thwing. No. 1,418,183; May 30.
- Graphite, Apparatus for producing. T. F. Baily. No. 1,434,519; Nov. 7.
- Graphite, Apparatus for separating. S. J. Swanson. No. 1,432,921; Oct. 24.
- Graphite, Producing. T. F. Baily. No. 1,420,512; June 20.
- Graphitized material, Making. A. P. Sullivan. No. 1,411,537; Apr. 4.
- Graphophone. L. Roberto. No. 1,414,898; May 2.
- Graphophone record disk and forming same. H. Pake-man. No. 1,409,568; Mar. 14.
- Graphophone stop. F. L. Casper. No. 1,434,366; Nov. 7.
- Graphophone stop mechanism. C. C. Brooks and E. O. Klemm. No. 1,437,959; Dec. 5.
- Graphophones, Automatic stop and repeating means for. C. C. Brooks and E. O. Klemm. Nos. 1,406,604-8; Feb. 14.
- Graphophones, Control means for. E. O. Klemm. No. 1,417,747; May 30.
- Graphophones, Control mechanism for. E. O. Klemm. No. 1,417,748; May 30.
- Grapple. C. H. Brown. No. 1,421,159; June 27.
- Grapple. G. P. Hemstreet. No. 1,413,225; Apr. 18.
- Grapple. R. H. Varicle. No. 1,406,704; Feb. 14.
- Grapple, Plate-lifting. E. W. Walter. No. 1,402,326; Jan. 3.
- Grappling tool. C. C. West. No. 1,439,458; Dec. 19.
- Grass and thistle digger. A. H. Pohl. No. 1,430,583; Oct. 3.
- Grass catcher. J. T. Madigan. No. 1,411,289; Apr. 4.
- Grass cutter. O. J. Heimann. No. 1,428,284; Sept. 5.
- Grass destroyer, Quack. H. Beuning. No. 1,429,563; Sept. 19.
- Grass digger, Quack. R. Lucy. No. 1,417,537; May 30.
- Grass-edge trimmer. A. McWhorter. No. 1,416,106; May 16.
- Grass shears. H. E. Goodwin. No. 1,432,241; Oct. 17.
- Grate. O. W. Petersen. No. 1,424,937; Aug. 8.
- Grate. L. H. Simmons. No. 1,434,847; Nov. 7.
- Grate. H. Spillman. No. 1,408,481; Mar. 7.
- Grate. C. J. Traub. No. 1,410,628; Mar. 28.
- Grate and water back, Fireplace. W. E. De Armond. No. 1,432,538; Oct. 17.
- Grate bar. H. Budd. No. 1,429,486; Sept. 19.
- Grate bar. G. C. Riddell. No. 1,402,795; Jan. 10.
- Grate, Camping. R. R. Seiling. No. 1,435,747; Nov. 14.
- Grate-cleaning appliance. W. J. Dray. No. 1,437,749; Dec. 5.
- Grate, Fire. C. Coleatti. No. 1,440,135; Dec. 26.
- Grate frame. E. B. Smith. No. 1,418,483; June 6.
- Grate, Furnace. S. B. Mott. No. 1,429,757; Sept. 19.
- Grate, Rotary furnace. L. Tréfois. No. 1,427,383; Aug. 29.
- Grate, Shaker. S. H. Sorrell. No. 1,421,598; July 4.
- Grate, Stoker. T. J. Courtney, W. A. Quinn, and J. F. Connors. No. 1,437,931; Dec. 5.
- Grate, Vertical. C. F. Schilling. No. 1,436,054; Nov. 21.
- Grater. K. L. Bonin. No. 1,420,017; June 20.
- Grater. A. Conte. No. 1,415,315; May 9.
- Grater. B. F. and G. P. Mertz. No. 1,414,657; May 2.
- Grater. J. Mohr. No. 1,408,762; Mar. 7.
- Grater, Potato. F. Kiekutis. No. 1,433,554; Oct. 31.
- Grater, Universal household. W. M. Lambdin. No. 1,411,634; Apr. 4.
- Grates, Center rest for boiler. L. H. Simmons. No. 1,416,131; May 16.
- Grates, Fuel feeder for. O. D. Cotton. No. 1,436,794; Nov. 28.
- Grates, Guard for. W. S. Board. No. 1,430,488; Sept. 26.
- Grating. W. H. Hess. No. 1,426,736; Aug. 22.
- Grating. W. H. Hess. No. 1,428,230; Sept. 5.
- Grating or ventilator. W. H. Lown. No. 1,416,484; May 16.
- Grave closure, Automatic. C. J. Jansky. No. 1,418,716; June 6.
- Grave covering. B. I. Dilger. No. 1,431,154; Oct. 10.
- Grave lining. A. L. Rhedans and A. M. Hitzert. No. 1,426,600; Aug. 22.
- Grave marker. V. Beroud. No. 1,425,361; Aug. 8.
- Gravitational separator. J. V. Slade. No. 1,405,022; Jan. 31.
- Gravity carrier. W. H. Riedel. No. 1,406,228; Feb. 14.
- Gravity carriers, Gate for. F. A. Rider. No. 1,418,024; May 30.
- Gravity unloader. C. A. McDonald. No. 1,409,053; Mar. 7.
- Grease cellar. W. F. Mitchell. No. 1,423,502; July 18.
- Grease cup. L. N. Bourdeau. No. 1,405,566; Feb. 7.
- Grease cup. W. Dottle. No. 1,435,916; Nov. 21.
- Grease cup. C. H. Kelley. (Reissue.) No. 15,300; Mar. 1.
- Grease cup. J. Lees. No. 1,438,384; Dec. 12.
- Grease cup. J. H. Main. No. 1,419,282; June 13.
- Grease cup. C. F. Vaughan. No. 1,426,929; Aug. 22.
- Grease cup. L. N. Vincent. No. 1,439,853; Dec. 26.
- Grease cup. S. S. Williamson. No. 1,432,818; Oct. 24.
- Grease cup and bushing anchor, Nondisplaceable. L. H. Stroud. No. 1,429,115; Sept. 12.
- Grease cup and making same. A. D. Waters. No. 1,411,821; Apr. 4.
- Grease-cup-attaching means. A. J. Migl. No. 1,432,716; Oct. 17.
- Grease cup, Lubricating. F. S. Craven and J. Mihalyi. No. 1,424,557; Aug. 1.
- Grease-cup plug. M. P. McLaughlin. No. 1,430,458; Sept. 26.
- Grease-cup plug. J. Roszmann. No. 1,430,591; Oct. 3.
- Grease-cup tool. L. W. Grein. No. 1,415,440; May 9.
- Grease cups, Automatic filler for. S. Hough. No. 1,422,978; July 18.
- Grease from solid material, Extraction of. F. J. Stokes. No. 1,438,194; Dec. 12.
- Grease-gun holder. H. R. Kennedy. No. 1,418,263; May 30.
- Grease or oil dispensing apparatus. H. M. Boe. (Reissue.) No. 15,427; Aug. 1.
- Grease-plug attachment. F. L. Fisher. No. 1,416,808; May 23.
- Grease retainer. S. B. Collier. No. 1,422,741; July 11.
- Grease retainer. C. E. Pittenger. No. 1,437,381; Nov. 28.
- Grease retainer and dust cap. L. A. T. Soldane and V. V. Van Nattan. No. 1,428,267; Sept. 5.
- Greenhouse construction. P. L. McKee. No. 1,434,250; Oct. 31.
- Grenade thrower or gun. S. P. Johnson. No. 1,412,017; Apr. 4.
- Gripple. E. E. McCargar. No. 1,410,818; Mar. 28.
- Grid-lining method and machine. E. W. Neal. No. 1,434,836; Nov. 7.
- Grid resistance, Variable. A. R. Goodwin. No. 1,420,189; June 20.
- Grid resistances, Manufacture of. L. Satchwell. No. 1,418,834; June 6.
- Grinder. C. L. Cook. No. 1,422,035; July 4.
- Grinder. O. H. Feucht. No. 1,418,433; June 6.
- Grinder. W. F. Fraser. No. 1,424,398; Aug. 1.
- Grinder. J. A. Gutenson. No. 1,429,135; Sept. 12.
- Grinder. G. H. McFeaters. No. 1,425,121; Aug. 8.
- Grinder. L. Quarles. No. 1,425,286; Aug. 8.
- Grinder and shredder. H. J. Shelton. No. 1,421,731; July 4.
- Grinder attachment, Disk. G. R. Barksdale. No. 1,419,535; June 13.
- Grinder-bar cage. M. F. Williams. No. 1,420,355; June 20.
- Grinder, Combined drill and valve. P. MacKenzie. No. 1,425,402; Aug. 8.
- Grinder, Combined drill and valve. V. Matalavage. No. 1,429,361; Sept. 19.
- Grinder, Cylinder. J. E. Powell. No. 1,437,548; Dec. 5.
- Grinder, Feed. M. F. Williams. No. 1,419,089; June 6.
- Grinder, Fine. H. M. Plaisted. No. 1,418,735; June 6.
- Grinder fixture. A. C. Lindholm. No. 1,426,366; May 16.
- Grinder, Ignition-point. D. H. Greenfield. No. 1,422,097; July 11.
- Grinder, Portable cylinder. J. L. Garner. No. 1,408,578; Mar. 7.
- Grinder, Power tool. A. M. McLeran. No. 1,432,402; Oct. 17.
- Grinder, Rail. E. P. Simard. No. 1,405,019; Jan. 31.
- Grinder, Roughage. J. H. Letz. No. 1,403,698; Jan. 17.
- Grinder, Surface. C. Knowles. No. 1,424,764; Aug. 8.
- Grinder, Thread. J. Bath and R. H. C. Grunewald. No. 1,438,682; Dec. 12.
- Grinder, Tool. E. E. Anthony. No. 1,407,455; Feb. 21.
- Grinder, Universal. J. H. Letz. No. 1,404,981; Jan. 31.
- Grinder-wheel mounting. E. Bockshe. No. 1,404,339; Jan. 24.
- Grinder, Wood-pulp. H. E. Tidmarsh. No. 1,405,356; Jan. 31.
- Grinders, Attachment for food. H. F. Bruck. No. 1,427,719; Aug. 29.
- Grinders, Operating stand for. V. Toth. No. 1,409,042; Mar. 7.
- Grinders, Safety attachment for meat. M. Mayer. No. 1,412,536; Apr. 11.
- Grinding, Abrasive wheel for form. L. L. Katzenstein. No. 1,403,416; Jan. 10.
- Grinding and lapping machine. F. C. Weaver. No. 1,422,505; July 11.
- Grinding and mixing and agitating machine and the like. P. B. Jagger. No. 1,436,262; Nov. 21.
- Grinding and polishing machine. J. Carrie. No. 1,430,214; Sept. 26.
- Grinding and polishing machine. E. C. Springer. No. 1,405,454; Feb. 7.
- Grinding and polishing machine, Suction. A. Weiss. No. 1,408,851; Mar. 7.
- Grinding and reaming machine, Cylinder. G. M. Brandt and L. V. Davis. No. 1,430,933; Oct. 3.
- Grinding apparatus. H. Branden. No. 1,434,037; Oct. 31.
- Grinding apparatus. J. J. Walther. No. 1,412,985; Apr. 18.

- Grinding attachment. H. G. Kennedy. No. 1,428,289; Sept. 5.
- Grinding block. C. A. Yehle. No. 1,405,474; Feb. 7.
- Grinding curved trimming blades, Machine for. A. B. Fowler. No. 1,424,196; Aug. 1.
- Grinding device. C. Shlagel. No. 1,428,497; Sept. 5.
- Grinding disk. A. M. Dellinger. No. 1,415,808; May 9.
- Grinding gauge. F. J. Pratt. No. 1,425,283; Aug. 8.
- Grinding machine. C. V. Alquist. No. 1,402,704; Jan. 3.
- Grinding machine. J. E. Anderson. No. 1,409,641; Mar. 14.
- Grinding machine. L. A. Casgrain. No. 1,410,551; Mar. 28.
- Grinding machine. W. J. Collins. No. 1,418,235; May 30.
- Grinding machine. W. C. Coryell. No. 1,401,961; Jan. 3.
- Grinding machine. W. C. Coryell. No. 1,402,215; Jan. 3.
- Grinding machine. W. De Coursey. No. 1,431,444; Oct. 10.
- Grinding machine. E. F. Frost. No. 1,436,309; Nov. 21.
- Grinding machine. B. M. W. Hanson. Nos. 1,416,462-3; May 16.
- Grinding machine. H. W. Hill. No. 1,440,148; Dec. 26.
- Grinding machine. A. Kirkland. No. 1,410,761; Mar. 28.
- Grinding machine. R. F. Knight. No. 1,419,271; June 13.
- Grinding machine. J. B. Kronable. No. 1,419,740; June 13.
- Grinding machine. E. S. Mummert and J. O. Dixon. No. 1,413,928; Apr. 25.
- Grinding machine. C. Munthe. No. 1,431,024; Oct. 3.
- Grinding machine. C. W. Olson. No. 1,425,331; Aug. 8.
- Grinding machine. M. O. Reeves. No. 1,410,956; Mar. 28.
- Grinding machine. M. O. Reeves. No. 1,430,754; Oct. 3.
- Grinding machine. R. Siefertson. No. 1,412,715; Apr. 11.
- Grinding machine. J. M. Strehl. No. 1,437,620; Dec. 5.
- Grinding machine. T. J. Sturtevant. No. 1,412,026; Apr. 4.
- Grinding machine. W. B. Swindell, Jr. No. 1,402,911; Jan. 10.
- Grinding machine. W. Taylor. No. 1,432,093; Oct. 17.
- Grinding machine. W. E. Trent. No. 1,406,109; Feb. 7.
- Grinding machine. G. B. Vernon. No. 1,412,725; Apr. 11.
- Grinding machine. E. F. Wieneke. No. 1,409,208; Mar. 14.
- Grinding machine. E. W. Worth. No. 1,429,819; Sept. 19.
- Grinding-machine attachment. H. E. Rintoul. No. 1,420,286; June 20.
- Grinding machine, Automatic. L. A. Sorby. No. 1,428,269; Sept. 5.
- Grinding machine, Button-blank. E. C. Carris. No. 1,419,489; June 13.
- Grinding machine, Cutlery. F. P. and C. H. Hemming. No. 1,439,889; Dec. 26.
- Grinding machine, Cylinder. G. R. Ward. No. 1,414,386; May 2.
- Grinding machine, Drill. D. A. Wallace. No. 1,417,364; May 23.
- Grinding machine, Electrically-driven. H. W. Dunbar and A. Turner. No. 1,429,025; Sept. 12.
- Grinding machine, Ring. E. B. Gardner. No. 1,436,750; Nov. 28.
- Grinding machine, Ring. V. Winquist. No. 1,402,700; Jan. 3.
- Grinding machine, Screw-thread. M. S. Cumner and F. W. Geissenhainer. No. 1,412,778; Apr. 11.
- Grinding machine, Surface. J. C. Hansen. No. 1,404,605; Jan. 24.
- Grinding machine, Tool. H. Lutz. No. 1,434,131; Oct. 31.
- Grinding machines, Clamping support for. B. Bethke. No. 1,404,337; Jan. 24.
- Grinding machines, Reversing control for. A. C. Krull. No. 1,427,756; Aug. 29.
- Grinding machines, Wheel guard for. C. Knowles. No. 1,405,922; Feb. 7.
- Grinding machines, Work support for. M. G. Zongaro. No. 1,430,426; Sept. 26.
- Grinding mechanism. A. O. S. Taylor. No. 1,422,635; July 11.
- Grinding mechanism, Roll. J. F. Gail. No. 1,404,691; Jan. 24.
- Grinding mill. M. O. Anthony. No. 1,402,468; Jan. 3.
- Grinding mill. M. O. Anthony. No. 1,425,161; Aug. 8.
- Grinding mill. F. D. Bradley. No. 1,440,002; Dec. 26.
- Grinding mill. A. Punteney. No. 1,409,238; Mar. 14.
- Grinding mill. J. B. Sedberry. No. 1,433,042; Oct. 24.
- Grinding mill. J. B. Sedberry. No. 1,439,581; Dec. 19.
- Grinding mill, etc. P. T. Lindhard. No. 1,437,599; Dec. 5.
- Grinding mill, Conical or cylinder. A. C. Bittner. No. 1,430,432; Sept. 26.
- Grinding or polishing machines, Work holding and feeding device for. R. W. Fuller. No. 1,421,205; June 27.
- Grinding plate. H. and R. Buckley. No. 1,424,615; Aug. 1.
- Grinding sausage meat, Machine for. J. E. Bennett. No. 1,435,796; Nov. 14.
- Grinding taps, Machine for. O. S. Bickford. No. 1,402,473; Jan. 3.
- Grinding tool. P. U. Lovelace. No. 1,415,664; May 9.
- Grinding tool. A. E. Maynard. No. 1,405,424; Feb. 7.
- Grinding wheel. E. B. Gardner. No. 1,415,331; May 9.
- Grinding wheel. H. E. Harris. No. 1,422,200; July 11.
- Grinding-wheel-balancing device. C. H. Norton. No. 1,402,312; Jan. 3.
- Grinding-wheel carriages, Positioning means for. P. Stoner. No. 1,416,994; May 23.
- Grinding wheels, Device for truing. O. Sender. No. 1,407,954; Feb. 28.
- Grinding wheels, Forming or truing up the peripheries of. E. Buswell. No. 1,440,338; Dec. 26.
- Grindstone mounting. W. E. Rosebush. No. 1,405,335; Jan. 31.
- Grindstones and the like, Method of and apparatus for pressing. F. W. Roberts. No. 1,413,060; Apr. 18.
- Grindstones, Apparatus for dressing pulp-wood. W. P. Hilkin. No. 1,406,138; Feb. 7.
- Grip. F. A. Foxhall. No. 1,435,634; Nov. 14.
- Grip handle. J. M. Chambers. No. 1,426,357; Aug. 22.
- Grip, Handle. R. H. Phillips. No. 1,421,098; June 27.
- Grip handle bar. N. Gerson. No. 1,409,142; Mar. 7.
- Grip handle, Renewable. J. Mosher. No. 1,425,534; Aug. 15.
- Grip hook. L. Handy. No. 1,417,378; May 23.
- Grip or suitcase. J. I. Warren and G. Q. Shaffer. No. 1,436,617; Nov. 21.
- Gripping and pulling tool. H. Dalitz. No. 1,422,185; July 11.
- Gripping device. L. J. Berkeley. No. 1,417,294; May 23.
- Gripping device. J. F. Moody. No. 1,422,289; July 11.
- Gripping device, Ground-. P. J. McNamee. No. 1,430,243; Sept. 26.
- Grizzly, Revolving. C. C. Clifford and C. J. Mott. No. 1,408,799; Mar. 7.
- Grocery commodities, Vending machine for. W. J. Goudeau. No. 1,403,599; Jan. 17.
- Grommet. J. Vodka. No. 1,430,129; Sept. 26.
- Grommets, Apparatus for applying. R. E. Maloy. No. 1,440,308; Dec. 26.
- Grommets, Apparatus for making. A. C. Pratt. No. 1,414,828; May 2.
- Grommets, Machine for making. W. N. Lurcott. No. 1,432,767; Oct. 24.
- Groove cutter. J. I. Mitrovich. No. 1,411,864; Apr. 4.
- Groove cutter, Purfling-. B. J. Roy. No. 1,432,910; Oct. 24.
- Groove-forming machine. C. H. Duckworth. No. 1,438,754; Dec. 12.
- Grooves, Making circumferential. H. J. Schmick. No. 1,434,410; Nov. 7.
- Grooving plane. A. N. Wigtil. No. 1,433,321; Oct. 24.
- Ground-treating implement. A. Sprague. No. 1,424,857; Aug. 8.
- Ground-working implements, Spring tooth for. J. J. Kovar. No. 1,418,808; June 6.
- Grubber, Power. E. Thompson. No. 1,417,425; May 23.
- Guanidine, Preparation of. T. L. Davis. No. 1,417,369; May 23.
- Guard cage and robber trap, Combined. G. F. Briggs. No. 1,430,788; Oct. 3.
- Guard for machines. E. Z. Marksberry and J. J. Sauregret. No. 1,402,630; Jan. 3.
- Guard for machines, Safety. E. J. Boehmer. No. 1,412,814; Apr. 11.
- Guard, Safety. F. S. Benedict. No. 1,432,098; Oct. 17.
- Guard, Safety. E. J. Roland. No. 1,409,075; Mar. 7.
- Guard, Safety. W. Kuehnle. No. 1,407,203; Feb. 21.
- Guide. I. A. Rommer. No. 1,429,166; Sept. 12.
- Guide bars, Aligning instrument for crosshead. A. R. Bateman. No. 1,421,895; July 4.
- Guide, Board. F. L. Lane. No. 1,405,599; Feb. 7.
- Guide buffer and matrix-delivery-belt-entrance cover, Assembling. E. Villarreal. No. 1,403,360; Jan. 10.
- Guide or signal, Traffic. W. L. Brown. No. 1,414,173; Apr. 25.
- Guidepost, Highway. A. Ruebsamen. No. 1,412,632; Apr. 11.
- Guide, Rolling-mill. L. M. Ekstrand. No. 1,405,985; Feb. 7.
- Guitars, Fingering attachment for. W. Spartinento. No. 1,437,026; Nov. 28.
- Gum, Chewing. W. A. Steinemann. No. 1,416,242; May 16.
- Gum, Cumaron-resin chewing. H. M. Weber. No. 1,402,817; Jan. 10.
- Gumming device. H. F. Affelder. No. 1,409,908; Mar. 21.
- Gun. F. O. Conill. No. 1,405,291; Jan. 31.
- Gun. V. H. Czegka. No. 1,413,903; Apr. 25.
- Gun. C. E. Grill. No. 1,402,159; Jan. 3.
- Gun. H. J. Johnson. No. 1,419,968; June 20.
- Gun. J. F. Ludwikoski. No. 1,404,986; Jan. 31.
- Gun. O. V. Payne. No. 1,403,623; Jan. 17.
- Gun. F. B. Suttiff. No. 1,414,714; May 2.
- Gun. K. Völler. No. 1,413,076; Apr. 18.
- Gun, Air. F. H. Fairweather. No. 1,404,689; Jan. 24.
- Gun, Air. G. A. Hertlein. No. 1,403,029; Jan. 10.
- Gun, Air. E. S. Roe. No. 1,419,308; June 13.
- Gun, Air. L. C. Schneider. No. 1,405,012; Jan. 31.
- Gun and reel, Casting. E. M. Boggess. No. 1,434,768; Nov. 7.
- Gun and similar weapon, Machine. H. P. Martin and O. D. Lucas. No. 1,412,252; Apr. 11.
- Gun, Automatic. J. T. Thompson. No. 1,425,810; Aug. 15.
- Gun, Automatic machine. C. Sutter. No. 1,431,057; Oct. 3.
- Gun, Automatic rapid-fire machine. F. Bangarter. No. 1,424,751; Aug. 8.
- Gun barrel built of an A-tube and a breech piece. J. Vollmer. No. 1,404,558; Jan. 24.

Alphabetical list of inventions—Continued.

- Gun-barrel cleaner. J. F. McCanna. No. 1,435,647; Nov. 14.
- Gun, Barrel-recoil. F. Finckh. No. 1,404,516; Jan. 24.
- Gun barrel with a breech piece screwed on an A-tube. J. Vollmer. No. 1,412,151; Apr. 11.
- Gun barrel with breech pieces screwed on A-tubes. J. Vollmer. No. 1,427,137; Aug. 29.
- Gun, Burglar. F. S. Jobson. No. 1,422,865; July 18.
- Gun-carriage trailer with combined propulsion by wheels and by endless track members. I. Roy. No. 1,426,219; Aug. 15.
- Gun carriage with spread-out trail, Wheeled. F. Stock. No. 1,403,818; Jan. 17.
- Gun carriages, Device for adjusting the recoil length of fluid brakes for. N. Koch. No. 1,417,922; May 30.
- Gun casing, Machine-. E. Fowler. No. 1,434,812; Nov. 7.
- Gun, Centrifugal. V. H. Czegka. No. 1,404,378; Jan. 24.
- Gun, Centrifugal. L. W. Lombard. No. 1,420,660; June 27.
- Gun, Centrifugal. J. H. Parsons. No. 1,408,137; Feb. 28.
- Gun-cleaning device. J. H. Cumpston. No. 1,427,582; Aug. 29.
- Gun deflection-angle and range-measuring instrument. J. E. Lewis. No. 1,409,303; Mar. 14.
- Gun, Dry-spray. W. H. Rose. Nos. 1,406,903-4; Feb. 14.
- Gun, Dust. J. F. Lemons. No. 1,423,125; July 18.
- Gun firing at high elevations. K. Völler. No. 1,413,077; Apr. 18.
- Gun, Flash-light. J. O. Jackson. No. 1,436,715; Nov. 28.
- Gun for destruction of gophers, etc. H. H. and W. B. Joliff. No. 1,410,406; Mar. 21.
- Gun, Fort disappearing. C. Ottolini. No. 1,422,296; July 11.
- Gun, Grease. G. E. Hazard. No. 1,434,117; Oct. 31.
- Gun, Grease. L. Ullman. No. 1,435,034; Nov. 7.
- Gun, Grease. W. A. Yeagher, jr. No. 1,424,547; Aug. 1.
- Gun, Lubricant. S. C. Joiner. No. 1,404,967; Jan. 31.
- Gun, Lubricating. C. W. Manzel. No. 1,424,504; Aug. 1.
- Gun, Machine. E. A. L. Bourdelles. No. 1,402,564; Jan. 3.
- Gun, Machine. J. C. R. McCrudden. No. 1,406,404; Feb. 14.
- Gun, Machine. B. Putnam. No. 1,429,370; Sept. 19.
- Gun magazines, Loader for machine. F. M. Case. No. 1,436,083; Nov. 21.
- Gun mechanism. T. H. Eickhoff. No. 1,433,945; Oct. 31.
- Gun mount. A. L. Loomis. No. 1,435,073; Nov. 7.
- Gun-mount brake. E. F. Norelius. No. 1,429,450; Sept. 19.
- Gun mounted on endless tracks for varying the height of the line of fire of the gun, Trail carriage. E. Schneider. No. 1,429,109; Sept. 12.
- Gun mounting. E. H. T. d'Eyncourt and F. Skeens. No. 1,402,407; Jan. 3.
- Gun mounting, Hydraulic relay for. J. B. Henderson. No. 1,413,162; Apr. 18.
- Gun platform. E. Slizewski. No. 1,414,100; Apr. 25.
- Gun, Pneumatic. H. Boileau. No. 1,405,664; Feb. 7.
- Gun, Powder. J. L. Skeldon. No. 1,406,233; Feb. 14.
- Guns, Projectile for line-throwing. G. Norman. No. 1,418,963; June 6.
- Gun, Putty. V. W. J. Coffin. No. 1,429,019; Sept. 12.
- Gun, Puttying. M. Muehl. No. 1,435,908; Nov. 14.
- Gun rest, Belt. A. W. Dumas. No. 1,406,827; Feb. 14.
- Gun retracting mechanism. B. P. Joyce. No. 1,424,105; July 25.
- Gun sight. T. S. Catlin. No. 1,433,177; Oct. 24.
- Gun sight. L. C. Dear. No. 1,406,620; Feb. 14.
- Gun sight. I. H. Eickhoff. No. 1,408,276; Feb. 28.
- Gun sight. S. G. Green. No. 1,405,580; Feb. 7.
- Gun sight. C. Pohl. No. 1,421,553; July 4.
- Gun sight, Adjustable. W. M. Miller. No. 1,428,389; Sept. 5.
- Gun sight, Front. L. H. Bradley. No. 1,431,926; Oct. 17.
- Gun sight, Luminous. J. S. Butler. No. 1,423,184; July 18.
- Gun, Signal. H. Russell and C. L. Paulus. No. 1,436,534; Nov. 21.
- Gun silencer, flash cover, and recoil check. G. A. Goodwin. No. 1,427,802; Sept. 5.
- Gun, Sporting. B. Petrik. Nos. 1,434,627-8; Nov. 7.
- Gun, Spray. T. Birkenmaier. No. 1,436,145; Nov. 21.
- Gun support. M. Drescher. No. 1,426,967; Aug. 22.
- Gun, Trapper's spring. V. M. Brown. No. 1,424,614; Aug. 1.
- Gun turret for submarines. H. Lecoq. No. 1,440,020; Dec. 26.
- Gun with independent sighting line. W. Heilemann. No. 1,422,099; July 11.
- Gun with laterally-adjustable barrel. R. Schürmann. No. 1,428,611; Sept. 12.
- Gun wrench, Grease-. A. T. Derby. No. 1,404,434; Jan. 24.
- Guns, Apparatus for reducing the length of recoil in. E. Schneider. No. 1,435,084; Nov. 7.
- Guns, Attachment for machine. M. Kovaleff. No. 1,412,287; Apr. 11.
- Guns, Automatic fuse setter for machine. R. V. Morse. No. 1,409,195; Mar. 14.
- Guns, Balancing and recoil attachment for. G. O. Fisher. No. 1,437,796; Dec. 5.
- Guns, Balancing attachment for. G. O. Fisher. No. 1,437,797; Dec. 5.
- Guns, Bowden trigger control for machine. H. O. Russell and C. L. Paulus. No. 1,436,535; Nov. 21.
- Guns, Breech closure for. T. H. Eickhoff. No. 1,406,546; Feb. 14.
- Guns, Breech lock for machine. A. H. G. Fokker. No. 1,426,851; Aug. 22.
- Guns, Breech mechanism for. J. T. Thompson. No. 1,425,808; Aug. 15.
- Guns, combined with devices for correcting transverse and longitudinal inclinations of the gun carriage, Sighting and aiming apparatus for field. E. Schneider. No. 1,424,594; Aug. 1.
- Guns, Compressed air recuperator for. E. Schneider. No. 1,421,576; July 4.
- Guns, Crank-operating gear for moving the breech in machine. A. H. G. Fokker. No. 1,427,079; Aug. 22.
- Guns, Device for actuating control gears for machine. A. H. G. Fokker. No. 1,426,849; Aug. 22.
- Guns, Fire control for automatic. T. H. Eickhoff. No. 1,437,889; Dec. 5.
- Guns, Fore end for. T. L. Bozeman. No. 1,410,054; Mar. 21.
- Guns from a central station, Controlling system for simultaneously firing a number of. P. Kaminski. No. 1,438,833; Dec. 12.
- Guns, Fuse-setter controller for antiaircraft. R. V. Morse. No. 1,413,927; Apr. 25.
- Guns, Gas-controlling attachment for gas-operated. C. Sutter. No. 1,431,059; Oct. 3.
- Guns, Lateral-dispersion device for machine. K. v. Rauffuss and E. Jaeschke. No. 1,413,936; Apr. 25.
- Guns, Lock mechanism for machine. H. O. Russell and C. L. Paulus. No. 1,427,855; Sept. 5.
- Guns, Magazine for machine. J. C. R. McCrudden. No. 1,425,120; Aug. 8.
- Guns, Measuring the so-called firing delay in naval. L. Schön. No. 1,409,788; Mar. 14.
- Guns, Muzzle support for automatic. C. Sutter. No. 1,431,058; Oct. 3.
- Guns, Practice tube adapted for quick-firing. A. T. Dawson and G. T. Buckham. No. 1,437,402; Dec. 5.
- Guns, Recoil and counter-recoil brake for. E. E. Honsberg. No. 1,411,627; Apr. 4.
- Guns, Safety trigger guard on machine. A. H. G. Fokker. No. 1,426,850; Aug. 22.
- Guns, searchlights, or other instruments on a distant point, System for simultaneously directing. P. Kaminski. No. 1,438,832; Dec. 12.
- Guns, Sighting apparatus for use with antiaircraft. T. C. Sinclair. No. 1,404,662; Jan. 24.
- Guns, Sighting device for. K. Völler. No. 1,413,207; Apr. 18.
- Guns, Sighting device for armored portable. R. Schürmann. No. 1,430,193; Sept. 26.
- Guns, Spade grip for machine. H. O. Russell and L. J. Eyer. No. 1,436,536; Nov. 21.
- Guns, Tripod for machine. J. F. O'Malley. No. 1,407,567; Feb. 21.
- Guns, Wire-cutting device for. M. Hrab. No. 1,406,387; Feb. 14.
- Gutter hanger. C. Meunier. No. 1,438,127; Dec. 5.
- Gutter hanger. C. Meunier. No. 1,438,774; Dec. 12.
- Gutter hanger. W. Peirez. No. 1,434,221; Oct. 31.
- Gutters and curbing, Mode of and apparatus for molding. R. Wilson. No. 1,410,355; Mar. 21.
- Gutters, Drainage means for combination. F. J. Hacker. No. 1,412,685; Apr. 11.
- Gypsum rock, Calcining. C. R. Birdsey. No. 1,412,203; Apr. 11.
- Gypsum wall board. J. W. Emerson. No. 1,439,954; Dec. 26.
- Gyrating machines, Supporting device for the driving shafts of. S. Snyder. No. 1,426,514; Aug. 22.
- Gyratory crusher. F. H. Edwards. No. 1,410,244; Mar. 21.
- Gyratory motion, Driving mechanism for producing. B. Neal and G. H. Hebebrand. No. 1,423,871; July 25.
- Gyroclinometer, Luminous. E. E. J. Bonneau, Y. P. G. Le Prieur, and G. Derrien. No. 1,412,997; Apr. 18.
- Gyrocompasses, Correction device for. H. L. Tanner. No. 1,412,760; Apr. 11.
- Gyrocompasses, Repeater for. S. G. Brown. No. 1,419,010; June 6.
- Gyro rotor, Wire-wound. E. A. Sperry. No. 1,426,339; Aug. 15.
- Gyroscope. J. A. Flint. No. 1,429,577; Sept. 19.
- Gyroscope, Unloading device for the shaft and bearing of a vertical. H. Sundhaussen. No. 1,404,329; Jan. 24.
- Gyroscopes and launching torpedoes, Means for spinning. W. Dieter. No. 1,402,745; Jan. 10.
- Gyroscopes, Damping means for. H. L. Tanner. No. 1,405,807; Feb. 7.
- Gyroscopes, Rotor for. E. A. Sperry. No. 1,426,336; Aug. 15.
- Gyroscopic apparatus. J. F. Hayford and L. J. Briggs. No. 1,429,588; Sept. 19.
- Gyroscopic stabilizers, Driving system for. B. G. Lamme. No. 1,416,038; May 16.
- Hack saw. E. M. Lang. No. 1,434,295; Oct. 31.
- Hack saw. G. T. Parsley. No. 1,413,348; Apr. 18.
- Hack-saw machine. B. L. Calkins. No. 1,437,225; Nov. 28.

Alphabetical list of inventions—Continued.

- Hairbrush, Electric. B. Harvey. No. 1,436,957; Nov. 28.
 Hairbrush, Fountain. H. F. Beyermann. No. 1,413,384; Apr. 18.
 Hair clasp with pins. R. Heüssner. No. 1,434,895; Nov. 7.
 Hair-clasping device. B. E. Beadle. No. 1,408,247; Feb. 28.
 Hair-clasping device. B. E. Beadle. No. 1,434,425; Nov. 7.
 Hair clipper. F. Fugitt. No. 1,427,587; Aug. 29.
 Hair clipper. N. V. Ghettia. No. 1,422,352; July 11.
 Hair clipper. C. Monroe. No. 1,416,242; May 16.
 Hair clipper. C. Monroe. No. 1,417,094; May 23.
 Hair clipper, Electric. L. David. No. 1,423,756; July 25.
 Hair clipper, Electric. L. David. (Reissue.) No. 15,506; Dec. 19.
 Hair clipper, Power-driven. J. Campbell. No. 1,428,836; Sept. 12.
 Hair-clipping machine, Electric. W. W. Quinn. No. 1,438,136; Dec. 5.
 Hair comb. L. A. Moberry. No. 1,419,579; June 13.
 Hair crimper. J. F. Donnelly. No. 1,438,585; Dec. 12.
 Hair curler. E. D. Baker. No. 1,416,596; May 16.
 Hair curler. G. B. Battersby. No. 1,437,334; Nov. 28.
 Hair curler. H. S. Brewington. No. 1,407,981; Feb. 28.
 Hair curler. J. De Ruvo. No. 1,404,587; Jan. 24.
 Hair curler. E. A. Ferris. No. 1,436,490; Nov. 21.
 Hair curler. J. Goldsmith, jr. No. 1,424,897; Aug. 8.
 Hair curler. E. J. Guenzel. No. 1,406,375; Feb. 14.
 Hair curler. M. L. Henry. No. 1,402,356; Jan. 3.
 Hair curler. M. D. Meserole. No. 1,416,301; May 16.
 Hair curler. M. D. Meserole. No. 1,437,347; Nov. 28.
 Hair curler. D. D. Nielsen. No. 1,408,131; Feb. 28.
 Hair curler. A. Schärer. No. 1,429,167; Sept. 12.
 Hair curler. O. Scheib. No. 1,406,586; Feb. 14.
 Hair curler. L. M. Smidt. No. 1,439,271; Dec. 19.
 Hair curler. E. F. Suter. No. 1,426,020; Aug. 15.
 Hair curler. A. A. West. No. 1,402,275; Jan. 3.
 Hair curler and waver. A. V. P. Martin. No. 1,422,593; July 11.
 Hair curlers, Making. J. W. Schloss. No. 1,439,449; Dec. 19.
 Hair-curling device. J. Goldsmith, jr. No. 1,406,639; Feb. 14.
 Hair-curling device. J. Goldsmith, jr. No. 1,434,489; Nov. 7.
 Hair-curling device. E. Roessner. No. 1,406,083; Feb. 7.
 Hair-curling iron. A. Torrent. No. 1,411,817; Apr. 4.
 Hair cutter. F. L. Gray. No. 1,404,603; Jan. 24.
 Hair cutter. A. Langlais. No. 1,430,512; Sept. 26.
 Hair cutter. L. J. Sigorsky. No. 1,426,226; Aug. 15.
 Hair cutter. W. J. Van Osdel. No. 1,409,207; Mar. 14.
 Hair-cutting apparatus. O. Hermann. No. 1,407,748; Feb. 28.
 Hair-cutting appliance. S. Severson. No. 1,423,363; July 18.
 Hair-cutting device. F. J. Price and M. W. Galloway. No. 1,417,200; May 23.
 Hair-cutting machine. P. A. Malvick. No. 1,430,173; Sept. 26.
 Hair-cutting machine. E. B. Powell. No. 1,421,350; June 27.
 Hair-cutting machine. S. Severson. No. 1,404,798; Jan. 31.
 Hair-drawing machine. M. Perkins. No. 1,405,626; Feb. 7.
 Hair-dressing device. E. B. Pentecost. No. 1,437,440; Dec. 5.
 Hair-dressing device. F. A. Schmidt. No. 1,438,141; Dec. 5.
 Hair drier. G. J. Qualman. No. 1,437,015; Nov. 28.
 Hair duster. P. A. Dinardo. No. 1,425,242; Aug. 8.
 Hair dye. I. H. Stoll. No. 1,405,458; Feb. 7.
 Hair fastener. S. M. Kitson. No. 1,424,654; Aug. 1.
 Hair form and tie, Combination. R. and G. Scheanblum. No. 1,413,360; Apr. 18.
 Hair form and tie, Combined. R. and G. Scheanblum. No. 1,413,359; Apr. 18.
 Hair foundation. B. Hurewich. No. 1,409,720; Mar. 14.
 Hair, Method and apparatus for waving. M. Kayser. No. 1,419,933; June 20.
 Hair nets, Method and means for wrapping. J. Lindgren. No. 1,417,752; May 30.
 Hairpin. W. H. Burns. No. 1,430,434; Sept. 26.
 Hairpin. R. S. Busby. No. 1,429,712; Sept. 19.
 Hairpin. W. A. P. Cathcart. No. 1,419,017; June 6.
 Hairpin. G. T. Chase. No. 1,425,367; Aug. 8.
 Hairpin. C. L. Christoferson. No. 1,405,815; Feb. 7.
 Hairpin. L. E. Dillon. No. 1,432,162; Oct. 17.
 Hairpin. A. O. Frear. No. 1,438,755; Dec. 12.
 Hairpin. T. Gregory. No. 1,423,606; July 25.
 Hairpin. F. Karol. No. 1,431,004; Oct. 3.
 Hairpin. F. Kirsten. No. 1,413,408; Apr. 18.
 Hairpin. M. M. Meisel. No. 1,437,770; Dec. 5.
 Hairpin. W. J. Miller. No. 1,410,948; Mar. 28.
 Hairpin. W. R. Noe. No. 1,434,961; Nov. 7.
 Hairpin. C. L. Schulz. No. 1,433,238; Oct. 24.
 Hairpin. H. Sweeney. No. 1,404,493; Jan. 24.
 Hairpin. A. Wenger. No. 1,429,816; Sept. 19.
 Hairpin. M. J. Williams. No. 1,410,981; Mar. 28.
 Hairpin box. S. H. Goldberg. No. 1,424,471; Aug. 1.
 Hairpin-crimping machinery. H. P. Smith. No. 1,430,337; Sept. 26.
 Hairpin-forming machine and forming hairpins. W. H. Hermsdorf. No. 1,410,675; Mar. 28.
 Hairpin separating and measuring machine. H. P. Smith. No. 1,406,587; Feb. 14.
 Hairpins or similar article, Machine for forming. S. H. Goldberg. No. 1,414,080; Apr. 25.
 Hairpins or similar articles, Machine for making. S. H. Goldberg. No. 1,424,473; Aug. 1.
 Hair, Producing permanent waves in the. E. Martin. No. 1,440,163; Dec. 26.
 Hair-puff device. I. W. Strahan. No. 1,415,729; May 9.
 Hair-rinsing means. A. de Velasco. No. 1,438,099; Dec. 5.
 Hair slide. O. E. Buley. No. 1,423,644; July 25.
 Hair straightener, Safety. E. S. Lee. No. 1,431,241; Oct. 10.
 Hair-straightening device, Safety. E. S. Lee. No. 1,432,251; Oct. 17.
 Hair-treating kit. B. T. Goldman. No. 1,403,114; Jan. 10.
 Hair-undulating device. J. A. Mariner. No. 1,403,512; Jan. 17.
 Hair-wave former. M. E. Thompson. No. 1,403,146; Feb. 28.
 Hair waver. P. A. Anderson and M. T. Peck. No. 1,439,498; Dec. 19.
 Hair waver. G. A. Franz. No. 1,428,585; Sept. 12.
 Hair waver. H. H. Klein. No. 1,425,527; Aug. 15.
 Hair waver. C. F. Porter. No. 1,412,963; Apr. 18.
 Hair waver. M. Spiter. No. 1,412,494; Apr. 11.
 Hair-waving device. A. Diaz. No. 1,418,291; June 6.
 Hair-waving heater. Z. Popin. No. 1,416,750; May 23.
 Hair-waving means. E. O. Fredericks. No. 1,425,956; Aug. 15.
 Hair, Waving or curling. A. Craig. No. 1,424,991; Aug. 8.
 Halogen compounds, Preparation of. W. O. Snelling. No. 1,421,733; July 4.
 Halogen derivatives of indigo and its homologues, Obtaining. M. Bouvier. No. 1,414,335; May 2.
 Halter. P. W. Jensen. No. 1,410,573; Mar. 28.
 Ham boiler, Hand-operated. H. Adelmann. No. 1,408,153; Feb. 28.
 Ham boiler, Power-operated. H. Adelmann. No. 1,412,590; Apr. 11.
 Ham-boning device. A. Reubold. No. 1,435,877; Nov. 14.
 Hams and other meats, Device for use in cooking and slicing. J. G. Jones. No. 1,431,234; Oct. 10.
 Hame and trace connection. F. F. Hodges. No. 1,406,735; Feb. 14.
 Hame and trace connector. F. H. Hapgood. No. 1,406,008; Feb. 7.
 Hame fastener. S. C. Stimson. No. 1,407,495; Feb. 21.
 Hames. A. Thompson. No. 1,412,322; Apr. 11.
 Hammer. J. A. Bartosz. No. 1,408,162; Feb. 28.
 Hammer. M. D. Davis. No. 1,428,838; Sept. 12.
 Hammer. C. H. Fisher. No. 1,411,567; Apr. 4.
 Hammer. F. W. Foley. No. 1,424,161; Aug. 1.
 Hammer. C. Hansen. No. 1,422,262; July 11.
 Hammer. R. D. Huislander. No. 1,409,449; Mar. 14.
 Hammer. C. H. Johnson. No. 1,411,918; Apr. 4.
 Hammer. F. E. Shourds. No. 1,415,956; May 16.
 Hammer. C. C. Smith. No. 1,404,150; Jan. 17.
 Hammer, Air. A. G. Mack. No. 1,436,512; Nov. 21.
 Hammer, Air. J. W. Wolfe. No. 1,416,086; May 16.
 Hammer-blade attachment. G. Milliken. No. 1,439,572; Dec. 19.
 Hammer, Carpenter's. A. B. Coleman. No. 1,425,369; Aug. 8.
 Hammer, Claw. P. J. Luttrell. No. 1,410,407; Mar. 21.
 Hammer construction. T. H. Eickhoff. No. 1,403,492; Jan. 17.
 Hammer, Coved pivoted. M. F. Williams. No. 1,424,225; Aug. 1.
 Hammer crusher. W. H. Hartman. No. 1,422,761; July 11.
 Hammer, Electric. L. Paulero. No. 1,429,094; Sept. 12.
 Hammer, Fluid-actuated. H. C. Inslee. No. 1,440,082; Dec. 26.
 Hammer, Fluid-power. E. J. Fritsch and R. W. Nazel. No. 1,429,421; Sept. 19.
 Hammer for crushers, Rotary pivoted. E. B. Campbell. No. 1,410,455; Mar. 21.
 Hammer gauge. P. F. Johnson. No. 1,419,567; June 13.
 Hammer, Lumberman's. S. P. Sharron. No. 1,432,794; Oct. 24.
 Hammer, Marking. A. J. Aselin. No. 1,425,357; Aug. 8.
 Hammer, Portable riveting. H. G. Westmore. No. 1,433,053; Oct. 24.
 Hammer, Power. W. E. Sheehy. No. 1,428,612; Sept. 12.
 Hammer, Radial riveting. E. H. Chapman. No. 1,404,512; Jan. 24.
 Hammer, Reducing-mill. F. R. Cornwall. No. 1,403,013; Jan. 10.
 Hammer, Rotary pivoted. E. B. Campbell. No. 1,413,652; Apr. 25.
 Hammer, Rotary pivoted. H. M. Plaisted. No. 1,413,611; Apr. 25.
 Hammer, Self-feeding. N. M. Purviance. No. 1,435,978; Nov. 21.
 Hammer shank and collar machine, Jack. R. C. Hartin. No. 1,437,653; Dec. 5.
 Hammer, Spin. W. P. Seng. No. 1,430,692; Oct. 3.

Alphabetical list of inventions—Continued.

- Hammers, Adjustable guide for. B. Paul. No. 1,405,799; Feb. 7.
- Hammers, Attachment for riveting. J. E. Malzi. No. 1,410,696; Mar. 28.
- Hammers, Work clamping and cushioning attachment for pneumatic. T. A. Dicks. No. 1,430,292; Sept. 26.
- Hammering silver, Device for. L. Moses. No. 1,409,230; Mar. 14.
- Hammock. H. Mintz. No. 1,414,433; May 2.
- Hammock and bedstead, Convertible porch. H. L. Hoy. No. 1,406,737; Feb. 14.
- Hammock, Baby. W. J. Godsell. No. 1,431,299; Oct. 10.
- Hammock, Couch. H. Mintz. No. 1,414,432; May 2.
- Hammock stand. A. Pittoni. No. 1,434,841; Nov. 7.
- Hammocks, Support for. A. Melniker and S. Calmanson. No. 1,431,408; Oct. 10.
- Hampers, Top for square. J. G. Boyd. No. 1,409,820; Mar. 14.
- Hand, Artificial. R. F. Armstrong. No. 1,409,513; Mar. 14.
- Hand, Artificial. O. L. Dilworth. No. 1,415,809; May 9.
- Hand, Artificial. J. J. Everson. No. 1,416,180; May 16.
- Hand, Artificial. H. G. Knobel. No. 1,426,481; Aug. 22.
- Hand bag. M. Brill. No. 1,415,305; May 9.
- Hand bag. P. Cohen. No. 1,416,690; May 23.
- Hand bag. J. O. Doersching. No. 1,414,866; May 2.
- Hand bag. A. C. Fisher. No. 1,435,704; Nov. 14.
- Hand bag. S. H. Levy. No. 1,432,877; Oct. 24.
- Hand bag. F. Reguluski. No. 1,425,217; Aug. 8.
- Hand-bag catch. B. P. Cullen and M. J. Wochna. No. 1,422,748; July 11.
- Hand-bag construction. M. Tannenbaum. No. 1,430,768; Oct. 3.
- Hand-bag frame, toilet article, and vanity case. C. Dahmen. No. 1,404,379; Jan. 24.
- Hand-bag lock. B. J. Richardson and C. S. Barber. No. 1,431,758; Oct. 10.
- Hand bag or satchel, Traveler's. O. I. Singer. No. 1,430,597; Oct. 3.
- Hand bags, etc., Top for. C. C. Holden. No. 1,426,078; Aug. 15.
- Handbox. T. Honma. No. 1,428,092; Sept. 5.
- Hand brake. W. A. Geiger. No. 1,403,155; Jan. 10.
- Hand brake. J. F. O'Connor. Nos. 1,403,187-8; Jan. 10.
- Hand brake. J. F. O'Connor. No. 1,405,621; Feb. 7.
- Hand brake. J. F. O'Connor. No. 1,421,823; July 4.
- Hand brake. W. H. Sauvage. Nos. 1,420,150-1; June 20.
- Hand brake. F. B. Townsend. No. 1,403,210; Jan. 10.
- Hand brake. K. Williams. No. 1,439,390; Dec. 19.
- Hand covering. A. Wolf. No. 1,432,005; Oct. 17.
- Handcuff. E. B. Foster. No. 1,410,802; Mar. 28.
- Handcuff holster. J. B. O'Leary. No. 1,413,290; Apr. 18.
- Hand drill. A. H. Sweetland. No. 1,411,538; Apr. 4.
- Hand grenades, projectiles, and mines, Ignition mechanism for. F. N. Brindley. No. 1,416,662; May 16.
- Handhole plate. W. C. Jacobs. No. 1,429,739; Sept. 19.
- Handhole-plates, Tool for removing. W. C. Reed. No. 1,410,597; Mar. 28.
- Hand, Jointed artificial. P. A. Ingold. No. 1,422,714; July 11.
- Hand lamp, Battery. C. F. Burgess. No. 1,421,399; July 4.
- Hand, Mechanical. W. Schimmel. No. 1,409,415; Mar. 14.
- Hand mechanism, Artificial. W. T. Carnes. No. 1,402,476; Jan. 3.
- Hand or arm amputated persons, Working claw for. A. Thiele. No. 1,421,322; June 27.
- Hand-picking table. A. R. Stephen. No. 1,414,598; May 2.
- Handrail column. J. G. Blunt. No. 1,428,746; Sept. 12.
- Hand rake. M. Pantiga. No. 1,435,492; Nov. 14.
- Handsaw. G. Forton. No. 1,438,175; Dec. 12.
- Handsaw attachment. T. Guerriero. No. 1,411,017; Mar. 28.
- Handsaw, buffer, etc., Electrically-operated. C. Sandlin. No. 1,424,593; Aug. 1.
- Handsaw, Motor-driven. C. M. Geiger. No. 1,417,726; May 30.
- Handsaw type, Mechanic's tool of the. A. Neron. No. 1,425,536; Aug. 15.
- Handsaws, Gauge for. J. O. Flynn. No. 1,409,048; Mar. 7.
- Hand tool. H. I. Adams. No. 1,413,698; Apr. 25.
- Handwheel. C. A. Browne. No. 1,433,118; Oct. 24.
- Handwheel. H. W. Dover. No. 1,411,239; Mar. 28.
- Handwheel. H. W. Dover. No. 1,412,678; Apr. 11.
- Handkerchief retainer. T. B. Lamb. No. 1,408,610; Mar. 7.
- Handkerchief set. I. S. Bach. No. 1,419,658; June 13.
- Handle. See—
- Adjustable handle. Golf-stick handle.
- Agitator handle. Grip handle.
- Air-brake handle. Lantern handle.
- Ax handle. Lifting-jack handle.
- Broom and brush handle. Locking handle.
- Brush handle. Mop handle.
- Casket handle. Pump handle.
- Chisel handle. Razor handle.
- Coffin handle. Rotary handle.
- Crank handle. Saw handle.
- Detachable handle. Switch handle.
- Distock-oiling handle. Tool handle.
- Dish handle. Wheelbarrow handle.
- Extension handle. Wrench handle.
- Handle. G. E. Curtiss. No. 1,405,971; Feb. 7.
- Handle. A. Foster. No. 1,411,209; Mar. 28.
- Handle. R. W. Griswold. No. 1,422,355; July 11.
- Handle. F. S. Herbert. No. 1,428,285; Sept. 5.
- Handle. F. L. Lindhorst. No. 1,420,851; June 27.
- Handle. F. A. Morgan. No. 1,429,446; Sept. 19.
- Handle. S. W. Parsons. No. 1,407,167; Feb. 21.
- Handle. H. A. Riggs. No. 1,432,413; Oct. 17.
- Handle. J. F. Smart. No. 1,422,630; July 11.
- Handle. E. A. Weibel. No. 1,424,052; July 25.
- Handle, Adjustable. W. A. Field. No. 1,429,940; Sept. 26.
- Handle, Adjustable. H. Lewis. No. 1,405,712; Feb. 7.
- Handle and connected part. C. A. Bailey. No. 1,403,375; Jan. 10.
- Handle and crank, Combination. P. L. Streit. No. 1,423,469; July 18.
- Handle and making same. S. Ringer. No. 1,418,095; May 30.
- Handle assembling and soldering machine. R. L. Drake. No. 1,404,746; Jan. 31.
- Handle bar. M. Rosenstein. No. 1,435,662; Nov. 14.
- Handle extension. B. G. Hackett. No. 1,417,990; May 30.
- Handle-fastening device. J. Herick. No. 1,410,755; Mar. 28.
- Handle grip. H. W. Smith. No. 1,435,088; Nov. 7.
- Handle holder. J. Selinger. No. 1,440,030; Dec. 26.
- Handle joint. W. E. Seastrom. No. 1,421,848; July 4.
- Handle, Rotary. G. I. Rockwood and H. G. Carlson. No. 1,403,977; Jan. 17.
- Handling and transporting articles in factories and the like, System for. A. Hirt. No. 1,436,171; Nov. 21.
- Handling apparatus for material in bulk. J. B. Wilkie and F. E. Bagnall. No. 1,431,497; Oct. 10.
- Handling apparatus, Material and article. D. W. Cameron. No. 1,431,216; Oct. 10.
- Handling articles and apparatus therefor. W. H. Francis. No. 1,434,883; Nov. 7.
- Handling machine, Material. R. T. Quaas. No. 1,436,907; Nov. 28.
- Handles and the like, Attaching. U. A. Valente. No. 1,416,532; May 16.
- Handles for cups, etc., Die for forming. E. Brookes. No. 1,417,967; May 30.
- Handles, Method and means for securing wooden. F. R. Plumb. No. 1,426,316; Aug. 15.
- Hanger. See—
- Adjustable skirt hanger. Joist hanger.
- Ball-bearing hanger. Map hanger.
- Beam hanger. Metal telephone-directory hanger.
- Belt hanger. Photographic-film-strip hanger.
- Book hanger. Radiator hanger.
- Brake-beam hanger. Screen hanger.
- Clothes hanger. Shade and curtain hanger.
- Clothesline hanger. Spring hanger.
- Crank handle. Sucker-rod hanger.
- Curtain hanger. Suit hanger.
- Door hanger. Swing hanger.
- Eaves-trough hanger. Towel hanger.
- Floral hanger. Trolley hanger.
- Folding bedclothes hanger. Trolley-track hanger.
- Garment hanger. Wardrobe hanger.
- Gutter hanger. Window-screen hanger.
- Harness hanger.
- Hat hanger.
- Hanger. B. L. Heater. No. 1,414,127; Apr. 25.
- Hanger. J. R. Helden. No. 1,433,616; Oct. 31.
- Hanger. W. L. Rivers and G. B. Dixon. No. 1,423,455; July 18.
- Hanger support. E. J. Hoffman. No. 1,433,617; Oct. 31.
- Hanging and display device, Compact portable. C. G. Shepherd. No. 1,435,183; Nov. 14.
- Hanging strap. T. R. Treiber and W. H. McWhorter. No. 1,431,852; Oct. 10.
- Harbor-improvement apparatus. G. W. Chance. No. 1,432,530; Oct. 17.
- Hardness-testing apparatus. A. Repper. No. 1,430,261; Sept. 26.
- Hardness-testing machine. J. G. Ayers, jr. No. 1,429,481; Sept. 19.
- Harness. H. C. Egerton. No. 1,419,450; June 13.
- Harness, Child's. M. Connor. No. 1,431,570; Oct. 10.
- Harness hanger. C. Sievert. No. 1,429,784; Sept. 19.
- Harness hook. H. W. Rager. No. 1,422,128; July 11.
- Harness, Rein spreader and guide for. S. W. Reynolds. No. 1,406,415; Feb. 14.
- Harness retractor. A. H. Landry. No. 1,427,604; Aug. 29.
- Harness spreader. C. H. Horton. No. 1,413,734; Apr. 25.
- Harp. M. A. Clark. No. 1,406,347; Feb. 14.
- Harp, Jew's. G. B. Dushinberre. No. 1,434,736; Nov. 7.
- Harpoon. S. Hansen. No. 1,414,084; Apr. 25.
- Harpoon. F. G. Hinsdale. No. 1,403,550; Jan. 17.
- Harrow. F. G. Biggerstaff. No. 1,422,173; July 11.
- Harrow. D. M. Clevenger. No. 1,428,360; Sept. 5.
- Harrow. G. W. Ferrell. No. 1,415,825; May 9.
- Harrow. A. Fossel. No. 1,402,590; Jan. 3.
- Harrow. W. R. Holder. No. 1,431,229; Oct. 10.
- Harrow. E. J. Mann. No. 1,430,311; Sept. 26.
- Harrow. A. J. Smith. No. 1,411,196; Mar. 28.
- Harrow. W. T. Wertman. No. 1,424,966; Aug. 8.
- Harrow. J. N. Wilkin. No. 1,425,819; Aug. 15.
- Harrow. D. S. Wolverton. No. 1,430,483; Sept. 26.
- Harrow-angling device. E. A. Johnston. No. 1,433,013; Oct. 24.

- Harrow attachment. D. J. Erwin. No. 1,402,586; Jan. 3.
Harrow cart. L. F. McFarland and P. B. Boden. No. 1,413,044; Apr. 18.
Harrow, Disk. S. W. Cady. No. 1,433,063; Oct. 24.
Harrow draft device. A. C. Cox. No. 1,435,107; Nov. 7.
Harrow, Packer and circular. O. Voelker. No. 1,414,842; May 2.
Harrow, Plow or disk. F. L. Paige. No. 1,419,585; June 13.
Harrow, Reversible. H. R. Traphagen. No. 1,410,144; Mar. 21.
Harrow, Revolving toothed-disk. O. A. Olson. No. 1,405,860; Feb. 7.
Harrow, Rotary. F. Kirschke. No. 1,418,933; June 6.
Harrow seat, Adjustable. E. R. Lowrey. No. 1,411,856; Apr. 4.
Harrow, Soil or turf renovating brush. B. B. Brook. No. 1,421,060; June 27.
Harrow, Tandem disk. A. S. Krotz. No. 1,409,218; Mar. 14.
Harrow, Tandem disk. C. S. Sharp. No. 1,429,462; Sept. 19.
Harrow, Tandem disk. C. E. Ward and F. W. Harris. No. 1,421,048; June 27.
Harrow-tooth clip. J. A. Thomas. No. 1,435,092; Nov. 7.
Harrow, Toothed. C. Andeen. No. 1,438,513; Dec. 12.
Harrow, Tractor disk. V. F. Lassagne. No. 1,402,236; Jan. 3.
Harrows, Draft means for tandem disk. F. H. French. No. 1,436,391; Nov. 21.
Harrows, Shifting mechanism for disk. C. E. Ward. No. 1,421,047; June 27.
Harvester. C. W. Woodson. No. 1,405,885; Feb. 7.
Harvester, Bean. F. V. Scott. No. 1,429,168; Sept. 12.
Harvester, Beet. A. G. Bimson. No. 1,410,880; Mar. 28.
Harvester, Beet. W. R. Carlson. No. 1,408,986; Mar. 7.
Harvester, Beet. M. A. Greene. No. 1,411,015; Mar. 28.
Harvester, Beet. W. Hoagg. No. 1,436,501; Nov. 21.
Harvester, Beet. W. R. Howard. No. 1,436,502; Nov. 21.
Harvester, Beet. M. S. Montague. No. 1,434,834; Nov. 7.
Harvester, Beet. G. W. Welton, Sr. No. 1,403,929; Jan. 17.
Harvester, Beet and vegetable. C. M. Ewing and H. N. Bryan. No. 1,417,309; May 23.
Harvester, Cane. H. O. Scranton. No. 1,406,093; Feb. 7.
Harvester, Corn. J. W. From. No. 1,411,009; Mar. 28.
Harvester, Corn. F. H. Gilkey. No. 1,439,884; Dec. 26.
Harvester, Corn. N. Varler. No. 1,404,813; Jan. 31.
Harvester, Cotton. A. W. Marmon. No. 1,403,433; Jan. 10.
Harvester cutting mechanism. P. J. Shaw. No. 1,430,408; Sept. 26.
Harvester, Grain. C. Maul. Nos. 1,435,724-6; Nov. 14.
Harvester, Potato. R. W. Muir. No. 1,440,232; Dec. 26.
Harvester, Power-propelled. F. D. Wilson and R. C. Livesay. No. 1,419,433; June 13.
Harvester, Root. J. Honsinger. No. 1,436,396; Nov. 21.
Harvester, Root-crop. H. I. Pettengill. No. 1,426,767; Aug. 22.
Harvester, Salt. C. A. Cunningham, A. Christensen, and F. W. Bartlett. No. 1,407,189; Feb. 21.
Harvester, Self-propelled heading and thrashing. J. Fric. No. 1,405,774; Feb. 7.
Harvester thrashers, Straw spreader for. E. H. Linscheid. No. 1,420,716; June 27.
Harvesters and the like, Conveyer-chain guide for cane. F. C. D. Wilkes and F. K. Flynn. No. 1,429,991; Sept. 26.
Harvesters, Endless apron for. W. Weber. No. 1,429,470; Sept. 19.
Harvesters, Grain wheel for. F. D. Wilson. No. 1,426,937; Aug. 22.
Harvesters, Stacker for. D. M. Graham. No. 1,412,238; Apr. 11.
Harvesters, Trailer hitch for. W. E. Cook. No. 1,418,700; June 6.
Harvesters, Vacuum nozzle for cotton. J. T. Skillins. No. 1,439,270; Dec. 19.
Harvesters, Vine separator for potato. D. M. Susi and N. H. Barrows. No. 1,412,426; Apr. 11.
Harvesting device, Hand. O. J. Robinson. No. 1,439,126; Dec. 19.
Harvesting flax, Machine for. C. A. Choate. No. 1,431,372; Oct. 10.
Harvesting machine. W. L. Hendricks. No. 1,424,746; Aug. 1.
Harvesting machine. G. T. O'Donnell. No. 1,440,168; Dec. 26.
Harvesting machine. F. Schulze. No. 1,431,330; Oct. 10.
Harvesting machine. S. J. Wilson. No. 1,435,569; Nov. 14.
Harvesting machine, Rice. G. I. Dill. No. 1,418,542; June 6.
Harvesting machines, Stalk-arm attachment for corn. W. S. Baird. No. 1,419,347; June 13.
Hasp lock. C. L. Bell. No. 1,434,280; Oct. 31.
Hasp lock. E. Knapp. Nos. 1,403,252-3; Jan. 10.
Hat. J. C. Gordinho. No. 1,411,622; Apr. 4.
Hat. H. N. Neppell. No. 1,418,198; May 30.
Hat. C. A. Peters. No. 1,411,509; Apr. 4.
Hat and coat hanger. D. W. Ohaver. No. 1,403,815; Jan. 17.
Hat and umbrella holder. J. M. Thomas. No. 1,420,891; June 27.
Hatbox. A. Fogel. No. 1,421,443; July 4.
Hatbox. B. Levy. No. 1,405,050; Jan. 31.
Hat brim, Welt-edge. A. A. Hadshon. No. 1,404,291; Jan. 24.
Hat construction. J. M. Mayleas. No. 1,412,479; Apr. 11.
Hat-creaser retainer. B. Reichard. No. 1,406,078; Feb. 7.
Hat-crown form. H. B. Goldstein. No. 1,432,995; Oct. 2.
Hat fastener. F. Henderson. No. 1,403,118; Jan. 10.
Hat form retainer. J. Powels. No. 1,495,517; June 13.
Hat, Fringed. L. Krause. No. 1,428,891; Sept. 12.
Hat guard. J. J. Donlin. No. 1,406,622; Feb. 14.
Hat hanger. J. Lewis. No. 1,418,190; May 30.
Hat holder. A. G. Barker. No. 1,435,889; Nov. 14.
Hat holder. J. P. Glenn. No. 1,410,468; Mar. 21.
Hat holder. W. Sands. No. 1,402,800; Jan. 10.
Hat holder. W. Sands. No. 1,419,945; June 20.
Hat holder. P. Schmidt. No. 1,416,385; May 16.
Hat holder. J. A. Storm. No. 1,419,325; June 13.
Hat-machine press. J. Lake, jr. No. 1,429,083; Sept. 12.
Hat-pad-securing means. F. J. Greene. No. 1,428,026; Sept. 5.
Hatpin. A. H. Claus. No. 1,408,722; Mar. 7.
Hatpin. H. Muehle. No. 1,424,666; Aug. 1.
Hatpin. C. E. Rombough. No. 1,420,500; June 20.
Hatpin guard. C. Hasper. No. 1,409,714; Mar. 14.
Hatpin, Lady's. W. Hoffenberg. No. 1,403,780; Jan. 17.
Hatpin protector. F. H. George. No. 1,425,194; Aug. 8.
Hatpin, Safety. J. Michaels. No. 1,413,231; Apr. 18.
Hat protector. W. K. Un. No. 1,402,550; Jan. 3.
Hatrack. C. F. A. Beckers. No. 1,403,004; Jan. 10.
Hat-rounding machine, Soft. F. C. Craw. No. 1,418,288; June 6.
Hat shield or pad. W. J. Anderson. No. 1,421,139; June 27.
Hat stretcher and shaper. D. Freedline. No. 1,426,285; Aug. 15.
Hat support. F. B. Leonard. No. 1,424,833; Aug. 8.
Hat-sweatband attachment. W. A. Hardman. No. 1,434,743; Nov. 7.
Hats and like headwear, Grease shield for. E. Chetham. No. 1,434,201; Oct. 31.
Hats, caps, or the like, Sun-protecting lining for. I. Mourmoutzeff and E. I. Landress. No. 1,405,061; Jan. 31.
Hats, Forming lining surfaces in. A. W. Mitchell. No. 1,429,364; Sept. 19.
Hats, Machine for stitching sweatbands in. R. Becker. No. 1,430,530; Oct. 3.
Hats, Making. F. H. Doub. No. 1,432,280; Oct. 17.
Hats, Shape-retaining means for. J. C. Doran. No. 1,439,299; Dec. 19.
Hatch fastener. F. W. Watson. No. 1,413,081; Apr. 18.
Hatchet, Lather's. C. S. Cason. No. 1,426,151; Aug. 15.
Hatchet, Shingling. J. R. Hazen. No. 1,404,764; Jan. 31.
Hay carrier. J. G. Mayer. No. 1,435,123; Nov. 7.
Hay carrier. G. Scheising. No. 1,421,102; June 27.
Hay-carrier track. F. P. Tisler. No. 1,410,780; Mar. 28.
Hay cutter. A. Groff. No. 1,427,733; Aug. 29.
Hay distributor. P. C. Philip. No. 1,407,571; Feb. 21.
Hayfork. J. W. Collins. No. 1,408,342; Feb. 28.
Hayfork, Automatic nonrigid. A. B. Lanty. No. 1,434,710; Nov. 7.
Hayforks, Attachment for. A. W. Burnham. No. 1,439,603; Dec. 19.
Hay knife, Power-actuated. F. Cabalka. No. 1,415,789; May 9.
Hay loader. A. H. Daehlin. No. 1,413,009; Apr. 18.
Hay loader. J. Dain. No. 1,411,958; Apr. 4.
Hay loader. O. H. Eller. No. 1,406,946; Feb. 14.
Hay loader. P. L. Forbes. No. 1,422,432; July 11.
Hay loader. A. Wendel. No. 1,418,997; June 6.
Hay loaders, Attachment for. J. G. Taylor and H. Stoker. No. 1,405,808; Feb. 7.
Hay press. F. A. Brown. No. 1,435,102; Nov. 7.
Hayrack. K. and G. Bratteig. No. 1,418,774; June 6.
Hayrack. E. M. Bromley. No. 1,425,171; Aug. 8.
Hayrack. C. W. Warden. No. 1,417,125; May 23.
Hay rack and wagon, Combined. L. L. Willour. No. 1,402,988; Jan. 10.
Hayrack fastener. W. Schumaker. No. 1,432,914; Oct. 24.
Hayrack lift. J. A. Johnson. No. 1,423,328; July 18.
Hayrack unloader. V. G. Ouellette. No. 1,405,862; Feb. 7.
Hayrake. W. Kouns. No. 1,407,663; Feb. 21.
Hayrake. E. F. Stansberry. No. 1,406,506; Feb. 14.
Hayrake and tedder, Combined side-delivery. A. Grieves. No. 1,435,293; Nov. 14.
Hay-sling take-up. T. L. Glazebrook. No. 1,407,406; Feb. 21.
Haystacker. G. S. Beemer. No. 1,405,659; Feb. 7.
Haystacker. E. J. Cantwell. No. 1,422,924; July 18.
Haystacker. J. F. Chladek. No. 1,422,667; July 11.
Haystacker. C. Cooley. No. 1,404,158; Aug. 1.
Haystacker. C. C. Cope. No. 1,421,175; June 27.
Haystacker. J. H. Cope. No. 1,426,961; Aug. 22.
Haystacker. J. H. Cope. No. 1,436,014; Nov. 21.
Haystacker. K. D. Hankins. No. 1,411,099; Mar. 28.
Haystacker. A. T. Loftsgarden. No. 1,425,399; Aug. 8.
Haystacker attachment. J. A. Bliton. No. 1,420,548; June 20.

Alphabetical list of inventions—Continued.

- Haystacker, Automatic. L. and C. Oertli and H. Turnell. No. 1,422,611; July 11.
- Haying implement. G. H. Carlson. No. 1,439,942; Dec. 26.
- Headed articles, Method and apparatus for forming. O. H. de Lapotterie. No. 1,417,806; May 30.
- Headed articles, Method of and apparatus for making. D. R. Ward. No. 1,402,027; Jan. 3.
- Headed machine parts, Method and apparatus for making. D. E. Johnson and T. A. Madsen. No. 1,422,274; July 11.
- Headed stopper. J. A. Paulsen. No. 1,425,539; Aug. 15.
- Header. M. W. Kesterson and J. H. Latimer. No. 1,424,648; Aug. 1.
- Header. R. L. Wilcox. No. 1,405,174; Jan. 31.
- Heading machine, Metal-. H. L. Smith. No. 1,437,918; Dec. 5.
- Heading machines, Ejecting attachment for. W. L. Clouse. No. 1,412,844; Apr. 18.
- Heading machines, Feed mechanism for. H. L. Smith. No. 1,439,532; Dec. 19.
- Heading machines, Knock-out mechanism for. H. L. Smith. No. 1,437,919; Dec. 5.
- Heading machines, Punch-transfer mechanism for. A. H. Gaess. No. 1,437,935; Dec. 5.
- Headlamp, Automatic automobile. J. D. N. Simpson. No. 1,418,982; June 6.
- Headlamp, Dirigible. G. H. Anthony. No. 1,412,911; Apr. 18.
- Headlamp, Dirigible. F. S. See. No. 1,404,148; Jan. 17.
- Headlamp for automobiles. R. Brown. No. 1,430,433; Sept. 26.
- Headlamps, Reflector for automobile. W. F. Little. No. 1,427,216; Aug. 29.
- Headlight. C. H. Allen. No. 1,416,434; May 16.
- Headlight. E. H. Belden. No. 1,410,155; Mar. 21.
- Headlight. C. D. Chandler and F. B. Roland. No. 1,403,291; Jan. 10.
- Headlight. C. W. Dake. No. 1,433,703; Oct. 31.
- Headlight. W. T. Delony. No. 1,435,108; Nov. 7.
- Headlight. C. E. Dull. No. 1,419,449; June 13.
- Headlight. W. S. Elsey. No. 1,437,731; Dec. 5.
- Headlight. C. E. Godley. No. 1,429,236; Sept. 19.
- Headlight. R. W. Harris. No. 1,434,383; Nov. 7.
- Headlight. J. M. Hunt. No. 1,407,544; Feb. 21.
- Headlight. F. W. Ingols. No. 1,406,648; Feb. 14.
- Headlight. F. W. Ingols. No. 1,432,292; Oct. 17.
- Headlight. E. E. James. No. 1,406,025; Feb. 7.
- Headlight. F. S. Kern. No. 1,417,607; May 30.
- Headlight. A. S. Limpert. No. 1,421,506; July 4.
- Headlight. C. G. Melanson. No. 1,408,306; Feb. 28.
- Headlight. C. G. Melanson. Nos. 1,428,109-10; Sept. 5.
- Headlight. P. V. Mertzinger. No. 1,418,319; June 6.
- Headlight. W. L. Peabody. No. 1,434,253; Oct. 31.
- Headlight. T. W. Post. No. 1,416,235; May 16.
- Headlight. T. W. Post. No. 1,423,253; July 18.
- Headlight. C. C. Somers. No. 1,429,113; Sept. 12.
- Headlight. E. W. Sommer. No. 1,437,161; Nov. 28.
- Headlight. G. Trippe. No. 1,413,811; Apr. 25.
- Headlight. J. S. Wheeler. No. 1,425,562; Aug. 15.
- Headlight. W. M. Whitmer. No. 1,408,788; Mar. 7.
- Headlight. J. Whyte. No. 1,427,505; Aug. 29.
- Headlight. W. G. Wood. No. 1,403,280; Jan. 10.
- Headlight. W. G. Wood. No. 1,419,482; June 13.
- Headlight, Adjustable. O. L. Chesnutt. No. 1,410,370; Mar. 21.
- Headlight adjuster. L. N. Cotterman. No. 1,433,802; Oct. 31.
- Headlight and direction indicator, Combined. W. H. Sheehan. No. 1,422,629; July 11.
- Headlight and number mark. C. W. Dake. No. 1,402,054; Jan. 3.
- Headlight apparatus. S. F. Arbuckle. No. 1,409,912; Mar. 21.
- Headlight, Automobile. J. A. Ayala. No. 1,427,085; Aug. 29.
- Headlight, Automobile. H. F. Graham and H. Haynes. No. 1,432,458; Oct. 17.
- Headlight, Automobile. J. M. Head. No. 1,435,296; Nov. 14.
- Headlight, Automobile. B. E. Horton. No. 1,432,395; Oct. 17.
- Headlight, Automobile. W. L. Kaufmann. No. 1,412,470; Apr. 11.
- Headlight, Automobile. E. H. Mueller. No. 1,416,375; May 16.
- Headlight, Automobile. E. E. Peck. No. 1,410,077; Mar. 21.
- Headlight, Automobile. F. A. Reece. No. 1,409,469; Mar. 14.
- Headlight, Automobile. G. A. Schaper. No. 1,435,504; Nov. 14.
- Headlight, Automobile. G. Stern. No. 1,429,173; Sept. 12.
- Headlight circuits, Current regulator for automobile. H. E. Wallace. No. 1,410,977; Mar. 28.
- Headlight construction for automobiles, Dirigible. M. Ross. No. 1,434,505; Nov. 7.
- Headlight control, Automobile. W. Müller. No. 1,410,587; Mar. 28.
- Headlight control for automobiles. F. Grodi. No. 1,429,283; Sept. 19.
- Headlight control, Automobile. H. R. Fitzgerald and H. H. Walton. No. 1,417,172; Oct. 17.
- Headlight-control mechanism. E. B. Kaylor. No. 1,433,080; Oct. 24.
- Headlight-controlling device. I. C. Brown and T. Hille. No. 1,409,661; Mar. 14.
- Headlight-controlling mechanism. W. F. Harrington. No. 1,421,775; July 4.
- Headlight deflector. C. B. Kyle. No. 1,439,110; Dec. 19.
- Headlight-deflector device, Motor-vehicle. C. A. Hartmann. No. 1,440,292; Dec. 26.
- Headlight dimmer. H. H. Debolt. No. 1,412,654; Apr. 11.
- Headlight dimmer. O. A. Kubat. No. 1,433,731; Oct. 31.
- Headlight dimmer. G. R. Marcotte. No. 1,434,302; Oct. 31.
- Headlight dimmer. E. McPeck. No. 1,413,415; Apr. 18.
- Headlight dimmer. N. A. Oliver. No. 1,429,762; Sept. 19.
- Headlight, Dirigible. G. Acid. No. 1,411,147; Mar. 28.
- Headlight, Dirigible. O. L. Beam. No. 1,419,603; June 13.
- Headlight, Dirigible. H. E. Beasley and W. Byrd. No. 1,425,439; Aug. 8.
- Headlight, Dirigible. A. L. Brogden. No. 1,422,025; July 4.
- Headlight, Dirigible. H. E. Cary and T. T. McGuire. No. 1,417,497; May 30.
- Headlight, Dirigible. G. W. Clevenger. No. 1,439,796; Dec. 26.
- Headlight dirigible. G. W. J. Crabb. No. 1,426,963; Aug. 22.
- Headlight, Dirigible. W. W. Dart. No. 1,425,751; Aug. 15.
- Headlight, Dirigible. A. N. Goodwin and W. Sutherland. No. 1,416,014; May 16.
- Headlight, Dirigible. B. A. Gritzmacher. No. 1,436,800; Nov. 28.
- Headlight, Dirigible. G. L. Horton. No. 1,428,436; Sept. 5.
- Headlight, Dirigible. J. F. Keller. No. 1,415,243; May 9.
- Headlight, Dirigible. W. R. Koesterer. No. 1,431,820; Oct. 10.
- Headlight, Dirigible. J. P. Ladyman. No. 1,404,303; Jan. 24.
- Headlight, Dirigible. R. L. Leatherman and S. L. Walker. No. 1,431,240; Oct. 10.
- Headlight, Dirigible. J. R. McCosh. No. 1,411,048; Mar. 28.
- Headlight, Dirigible. E. Q. Ormiston. No. 1,408,627; Mar. 7.
- Headlight, Dirigible. F. Otremba. No. 1,437,544; Dec. 5.
- Headlight, Dirigible. C. D. Reeves. No. 1,410,508; Mar. 21.
- Headlight, Dirigible. E. D. and H. A. Temperle. No. 1,438,672; Dec. 12.
- Headlight, Dirigible auto. C. F. Andersen and J. R. Mitchell. No. 1,428,353; Sept. 5.
- Headlight, Electric. C. B. Goodwin and W. T. Thurmond. No. 1,435,002; Nov. 7.
- Headlight-focusing device. C. E. Godley. No. 1,414,567; May 2.
- Headlight for automobiles. J. P. Quest. No. 1,413,356; Apr. 18.
- Headlight for automobiles, Dirigible. C. A. Bliven and C. F. Moyer. No. 1,408,068; Feb. 28.
- Headlight for automobiles, Dirigible. H. A. Herpst. No. 1,436,959; Nov. 28.
- Headlight for automobiles, Dirigible. N. E. Phillips and J. E. Mathers. No. 1,430,320; Sept. 26.
- Headlight for automobiles, Dirigible automatically-operable. E. S. Jones. No. 1,428,235; Sept. 5.
- Headlight for automobiles, Dirigible turning. M. Dalyai. No. 1,438,520; Dec. 12.
- Headlight for bicycles, magnetic drive. F. Evans. No. 1,411,617; Apr. 4.
- Headlight for locomotives, Dirigible. G. H. Anthony. No. 1,421,368; July 4.
- Headlight for locomotives, Pivoted. E. Payne. No. 1,407,766; Feb. 28.
- Headlight for motor vehicles, Dirigible. R. D. Innis. No. 1,430,380; Sept. 26.
- Headlight for motor vehicles, Dirigible. J. M. McGuire. No. 1,434,392; Nov. 7.
- Headlight for motor vehicles, Dirigible. E. T. Ramsay. No. 1,428,859; Sept. 12.
- Headlight for road vehicles or the like. D. Lely, jr. No. 1,431,964; Oct. 17.
- Headlight for vehicles, Dirigible. R. A. Perry. No. 1,423,148; July 18.
- Headlight glare reducer. J. A. Landis. No. 1,439,313; Dec. 19.
- Headlight indicator. G. B. McInroy. No. 1,412,411; Apr. 11.
- Headlight lens. F. C. Ashe. No. 1,432,047; Oct. 17.
- Headlight lens. L. O. Grondahl. No. 1,414,125; Apr. 25.
- Headlight, Locomotive. J. Banaszak. No. 1,440,268; Dec. 26.
- Headlight mechanism, Automobile dirigible. P. M. Schlamp. No. 1,437,556; Dec. 5.
- Headlight mechanism, Dirigible. J. G. Flood. No. 1,425,759; Aug. 15.
- Headlight mechanism for vehicles. C. A. Litchfield. No. 1,434,218; Oct. 31.
- Headlight, Motor-vehicle. P. Ring. No. 1,439,712; Dec. 26.

- Headlight, Movable. H. D. Boughter. No. 1,422,732; July 11.
- Headlight, Movable. W. H. McLeod. No. 1,411,924; Apr. 4.
- Headlight, Movable. W. H. McLeod. No. 1,420,564; June 20.
- Headlight, Movable. J. G. McNish. No. 1,411,925; Apr. 4.
- Headlight, Nonglare. C. E. Post and P. G. Wagner. (Re-issue.) No. 1,5449; Sept. 5.
- Headlight regulator. E. M. Soreng. No. 1,411,754; Apr. 4.
- Headlight screen. E. W. Lodge. No. 1,428,895; Sept. 12.
- Headlight screen. E. W. Lodge. No. 1,430,390; Sept. 26.
- Headlight shield. C. L. Simon. No. 1,439,193; Dec. 19.
- Headlight suspension. J. R. Townsend. No. 1,435,763; Nov. 14.
- Headlight, Tilting. W. G. Northrup. No. 1,437,542; Dec. 5.
- Headlight-turning device. E. E. Throp and R. J. Sutton. No. 1,432,642; Oct. 17.
- Headlight, Vehicle. R. A. Gibbs. No. 1,415,236; May 9.
- Headlight, Vehicle. O. J. Reickert. No. 1,419,942; June 20.
- Headlight, Vehicle. W. D. Ryan. No. 1,428,662; Sept. 12.
- Headlight, Vehicle. R. Verch. No. 1,406,115; Feb. 7.
- Headlights, Controlling device for automobile. J. E. Gray. No. 1,437,732; Dec. 5.
- Headlights, Focusing device for. C. E. Godley. Nos. 1,426,858-9; Aug. 22.
- Headlights, Lens holder for. V. D. Renwick, Jr. No. 1,404,649; Jan. 24.
- Headlights, Nonglaring attachment for. C. Schopke. No. 1,421,847; July 4.
- Headlights, Reflecting attachment for. H. J. Seely. No. 1,424,525; Aug. 1.
- Headlights, etc., Reflector for automobile. C. A. Lester. No. 1,417,926; May 30.
- Headlights, Tilting mechanism for automobile. C. P. Woodford. No. 1,418,769; June 6.
- Headrest attachment. G. A. Hippler. No. 1,432,555; Oct. 17.
- Headwear. L. H. Ensten. No. 1,414,558; May 2.
- Headwear. M. E. Heinrich. No. 1,437,244; Nov. 28.
- Healing apparatus, Magnetic. S. Maeshima. No. 1,421,516; July 4.
- Heat and its application for heating liquids and other purposes, Production of. D. La Cour. No. 1,417,075; May 23.
- Heat-collecting apparatus, Solar. W. G. Cartter and E. D. Arthur. No. 1,425,174; Aug. 8.
- Heat-conserving apparatus. R. N. Ehrhart. No. 1,432,281; Oct. 17.
- Heat-controlled cut-out, Automatic. W. C. Newell. No. 1,439,707; Dec. 26.
- Heat-controlling device. R. G. Barzen. No. 1,416,544; May 16.
- Heat-controlling regulator, Thermostatic. J. J. Lawler. No. 1,415,584; May 9.
- Heat-distributing device. A. G. Scherer. No. 1,417,772; May 30.
- Heat economizer, Waste-. J. E. Bell. No. 1,423,826; July 25.
- Heat-exchange apparatus. E. Harter. No. 1,403,319; Jan. 10.
- Heat exchanger. C. P. Astrom. No. 1,439,283; Dec. 19.
- Heat exchanger. H. V. Barclay. No. 1,416,320; May 16.
- Heat exchanger. E. Prat. No. 1,409,967; Mar. 21.
- Heat exchanger. J. I. Thompson. No. 1,411,313; Apr. 4.
- Heat exchanger or condenser. P. St. Clair, jr. No. 1,423,695; July 25.
- Heat exchanger, Tubular. C. A. Brown. No. 1,410,548; Mar. 28.
- Heat-exchanging bodies, Production of. H. F. B. Jørgensen. No. 1,428,638; Sept. 12.
- Heat flow through pipes, Meter for measuring the. H. L. Covert. No. 1,411,165; Mar. 28.
- Heat from fluids, Apparatus for abstracting. P. R. McCrary. No. 1,432,705; Oct. 17.
- Heat-insulated receptacle. G. C. Anthon. No. 1,426,446; Aug. 22.
- Heat insulation for piping, Composite. C. S. Waldo. No. 1,439,653; Dec. 19.
- Heat interchanger. A. R. Lawrence. No. 1,429,149; Sept. 12.
- Heat, Measuring the consumption of. V. S. K. Petersen. No. 1,437,614; Dec. 5.
- Heat motor. W. J. H. Strong. No. 1,420,672; June 27.
- Heat, Producing. W. S. Bowen. Nos. 1,415,780-1; May 9.
- Heat-producing element and applications thereof to apparatus or articles, Electric. C. H. Roddis. No. 1,404,063; Jan. 17.
- Heat-radiating device. E. G. McGlaudin. No. 1,422,282; July 11.
- Heat-radiation apparatus or oven, Diffused-. D. Guelbaum. No. 1,409,293; Mar. 14.
- Heat reflecting and retaining device. R. J. Schmidt. No. 1,413,620; Apr. 25.
- Heat-storing and water-evaporating plant. H. Pfenninger. No. 1,418,460; June 6.
- Heat-treating apparatus. H. A. Lewis. No. 1,425,499; Aug. 8.
- Heat-treating furnace. E. F. Collins. No. 1,414,180; Apr. 25.
- Heat treating metallic articles, Method of and apparatus for. H. P. Macdonald. No. 1,414,366; May 2.
- Heat treatment. L. C. Josephs, Jr., and G. Wirrer. No. 1,402,723; Jan. 3.
- Heat treatment and furnace therefor. A. G. E. Hultgren. No. 1,401,983; Jan. 3.
- Heat treatment of metals, Apparatus for. L. C. Josephs, Jr., and G. Wirrer. No. 1,402,722; Jan. 3.
- Heat-utilizing device. J. F. Syrett. No. 1,417,215; May 23.
- Heat value, Apparatus for maintaining constant. H. F. Smith. No. 1,417,635; May 30.
- Heater: See—
- Aero heater.
 - Air heater.
 - Alcohol heater.
 - Automatic water heater.
 - Automobile heater.
 - Automobile body heater.
 - Automobile radiator water heater.
 - Camp heater.
 - Car heater.
 - Carburetor heater.
 - Circulating-air heater.
 - Combination electric and gas heater.
 - Electric heater.
 - Electric immersion heater.
 - Electric liquid heater.
 - Electric resistance heater.
 - Electric water heater.
 - Electrical heater.
 - Electrical water heater.
 - Electrically - controlled heater.
 - Feed-water heater.
 - Fireplace heater.
 - Flexible water heater.
 - Fluid heater.
 - Forced hot-air heater.
 - Fuel heater.
 - Gas heater.
 - Hair-waving heater.
 - Hot-air heater.
 - Hot-water heater.
 - Hydrocarbon heater.
 - Immersion heater.
 - Induction heater.
 - Interposed water heater.
 - Liquid heater.
 - Locomotive - feed - water heater.
 - Lubricating heater.
 - Manifold heater.
 - Oil heater.
 - Oil-well heater.
 - Orchard heater.
 - Plate heater.
 - Portable heater.
 - Reflector heater.
 - Sand-pipe heater.
 - Soldering-iron heater.
 - Steering-wheel heater.
 - Storage heater.
 - Submergible heater.
 - Tank heater.
 - Tank and water heater.
 - Tank-car heater.
 - Water heater.
- Heater. R. G. Boone. No. 1,416,255; May 16.
- Heater. L. F. Clausing. No. 1,418,361; June 6.
- Heater. A. R. J. Dearden. No. 1,429,193; Sept. 12.
- Heater. R. Gaertner and H. Klein. No. 1,434,603; Nov. 7.
- Heater. W. H. Hawley. No. 1,409,854; Mar. 14.
- Heater. W. R. Jones. No. 1,408,743; Mar. 7.
- Heater. D. B. MacMillan. No. 1,437,812; Dec. 5.
- Heater. C. Martin. No. 1,413,539; Apr. 18.
- Heater. G. S. Meikle. No. 1,415,890; May 16.
- Heater. E. A. Merrill. No. 1,437,538; Dec. 5.
- Heater. G. H. Mowe. No. 1,435,900; Nov. 14.
- Heater. J. S. Nagel. No. 1,414,299; Apr. 25.
- Heater. E. W. Neal. No. 1,405,064; Jan. 31.
- Heater. J. L. Robinson. No. 1,406,900; Feb. 14.
- Heater. G. W. Sharp. No. 1,405,943; Feb. 7.
- Heater. H. N. Smith and G. A. Wartman. No. 1,430,413; Sept. 26.
- Heater. L. H. Solomon. No. 1,427,028; Aug. 22.
- Heater. H. E. Strunk. No. 1,431,993; Oct. 17.
- Heater and cooker, Portable. I. C. Popper. No. 1,437,073; Nov. 28.
- Heater and ventilator. J. A. Greene. No. 1,416,346; May 16.
- Heater and ventilator, Combined. R. G. Boone. No. 1,416,601; May 16.
- Heater base. C. G. Walker. No. 1,416,916; May 23.
- Heater element, Electric. W. S. Hadaway, jr. No. 1,432,064; Oct. 17.
- Heater for topping-stills, Oil. J. E. Bell. No. 1,418,272; June 6.
- Heater humidifier. R. N. Murphy. No. 1,419,582; June 13.
- Heater support. R. E. Gove. No. 1,427,375; Aug. 29.
- Heater system. J. W. F. Macdonald. No. 1,437,187; Nov. 28.
- Heater unit. H. A. Silverman. No. 1,423,742; July 25.
- Heaters and burners, Vaporizer for fuel. G. P. Kittel. No. 1,430,383; Sept. 26.
- Heaters and lamps, Safety device for oil. W. K. Bassford. No. 1,428,132; Sept. 5.
- Heaters, Heating-element support for water. W. M. Wright. No. 1,435,364; Nov. 14.
- Heating air, Apparatus for. H. A. M. Pedersen. No. 1,404,638; Jan. 24.
- Heating and agitating tank. W. D. Croy and J. Z. Lawson. No. 1,411,417; Apr. 4.
- Heating and drying apparatus. G. Keith and D. B. Bain. No. 1,411,729; Apr. 4.
- Heating and ventilating construction. E. Pemberton. No. 1,433,843; Oct. 31.
- Heating apparatus. R. O. Anderson. No. 1,439,988; Dec. 26.
- Heating apparatus. A. B. Chantraine. No. 1,402,568; Jan. 3.
- Heating apparatus. S. D. Chapman. No. 1,405,281; Jan. 31.
- Heating apparatus. A. H. Des Perois. Nos. 1,422,087-8; July 11.
- Heating apparatus. W. F. Doeffing. No. 1,430,159; Sept. 26.

Alphabetical list of inventions—Continued.

- Heating apparatus. J. Harrington. No. 1,418,871; June 6.
- Heating apparatus. M. P. Hatchett. No. 1,415,345; May 9.
- Heating apparatus. J. I. Herbert. No. 1,416,025; May 16.
- Heating apparatus. E. H. Kennedy. No. 1,420,264; June 20.
- Heating apparatus. F. H. Longacre. No. 1,436,887; Nov. 28.
- Heating apparatus. A. McGary. No. 1,429,085; Sept. 12.
- Heating apparatus. W. S. Scott. No. 1,430,596; Oct. 3.
- Heating apparatus. S. Trood. No. 1,413,203; Apr. 18.
- Heating apparatus. R. Wade. No. 1,410,431; Mar. 21.
- Heating apparatus. R. P. Wise. No. 1,429,121; Sept. 12.
- Heating apparatus, Electric. J. C. Cavitt. No. 1,424,340; Aug. 1.
- Heating apparatus, Electric. E. Muntwyler. No. 1,402,246; Jan. 3.
- Heating apparatus, Electric. E. Phillipson. No. 1,431,418; Oct. 10.
- Heating apparatus, Electric. W. B. Smits. No. 1,414,226; Apr. 25.
- Heating apparatus, Electrical. H. Geisenhoner. Nos. 1,406,550-1; Feb. 14.
- Heating apparatus, Electrically-operated. C. P. Speck. No. 1,437,119; Nov. 28.
- Heating apparatus, Vaporizing device for. E. Delémont. No. 1,428,150; Sept. 5.
- Heating appliance, Electrical. L. Sykes. No. 1,406,776; Feb. 14.
- Heating bag. H. Gingras. No. 1,439,094; Dec. 19.
- Heating bag. L. J. Wertheimer. No. 1,434,576; Nov. 7.
- Heating-bar terminal. G. Egly. No. 1,418,633; June 6.
- Heating chambers, Thermostatic control device for. G. W. Collin. No. 1,410,658; Mar. 28.
- Heating core, Electric. W. W. Hicks. No. 1,421,084; June 27.
- Heating device. A. E. Dutton. No. 1,429,130; Sept. 12.
- Heating device. D. Griffith. No. 1,417,987; May 30.
- Heating device. J. Johnston. No. 1,432,864; Oct. 24.
- Heating device. G. Menger. No. 1,406,204; Feb. 14.
- Heating device. M. J. Whelan. No. 1,428,349; Sept. 5.
- Heating device, Electric. W. F. Lebzelter. No. 1,417,079; May 23.
- Heating device, Electric. W. F. Lebzelter. No. 1,423,806; July 25.
- Heating device, Electric. J. R. Rose. No. 1,431,184; Oct. 10.
- Heating device, Electric. L. T. Weidrick. No. 1,432,505; Oct. 17.
- Heating device, Electrical. T. C. Russell. No. 1,419,309; June 13.
- Heating devices, Fuel feed for. F. S. Seymour. No. 1,424,041; July 25.
- Heating drum. C. A. De Jaco. No. 1,423,651; July 25.
- Heating element. C. C. Armstrong. No. 1,438,424; Dec. 12.
- Heating element. C. J. Heiser. No. 1,435,392; Nov. 14.
- Heating element. M. Schey. No. 1,422,379; July 11.
- Heating element, Electric. F. W. Moffat. (Reissue.) No. 1,547,77; Oct. 24.
- Heating gem duck, Method and apparatus for. F. C. Fix. No. 1,402,484; Jan. 3.
- Heating iron, Electric. N. A. Nelson. No. 1,425,040; Aug. 8.
- Heating metal, Apparatus for and method of. W. W. Kemp and W. H. Van Horn. No. 1,404,615; Jan. 24.
- Heating or cooling chocolate and other plastic materials, Apparatus for. W. E. Prescott. No. 1,408,827; Mar. 7.
- Heating pad, Electric. A. Longoria. No. 1,416,481; May 16.
- Heating plant for houses and buildings in general. G. Scapin. No. 1,428,187; Sept. 5.
- Heating system. J. H. Brown. No. 1,421,902; July 4.
- Heating system. E. Davock. No. 1,407,990; Feb. 28.
- Heating system. G. Gabet. No. 1,422,556; July 11.
- Heating system. T. A. Holmberg. No. 1,426,643; Aug. 22.
- Heating system. H. C. Mierille. No. 1,410,025; Mar. 21.
- Heating system. T. J. Mooney. No. 1,410,706; Mar. 28.
- Heating system. R. N. Murphy. No. 1,409,231; Mar. 14.
- Heating system. L. Pirdun. No. 1,438,056; Dec. 5.
- Heating system. W. H. Shoonmaker. No. 1,418,835; June 6.
- Heating system, Automatic gas-burning. N. B. Wales. No. 1,419,116; June 6.
- Heating system, Electric. D. Hill. No. 1,437,420; Dec. 5.
- Heating system, Electric. R. Sudiah. No. 1,432,133; Oct. 17.
- Heating system, High-temperature. B. S. Harrison. No. 1,408,458; Mar. 7.
- Heating system, Hot-water. A. R. M. and O. Lincke. No. 1,418,583; June 6.
- Heating system, Oil-burning. L. L. Scott. No. 1,427,700; Aug. 29.
- Heating system, Steam or vapor. W. S. Haven. No. 1,406,556; Feb. 14.
- Heating system, Vapor. W. K. Simpson. No. 1,408,478; Mar. 7.
- Heating systems, Air exhaust for vapor. A. P. Crosby. No. 1,425,370; Aug. 8.
- Heating systems, Burner for oil. H. M. Sheer. No. 1,427,704; Aug. 29.
- Heating systems, Priming device for. M. A. Hemsing and M. H. Christopherson. No. 1,436,038; Nov. 21.
- Heating system, Regulator for vapor. L. A. Cherry. No. 1,423,492; July 18.
- Heating systems, Thermostatic electric control for. E. E. Gold. No. 1,424,896; Aug. 8.
- Heating transformer. P. H. Bardill. No. 1,409,647; Mar. 14.
- Heating unit. C. C. Abbott. No. 1,432,434; Oct. 17.
- Heating unit, Electric. C. B. Rogers. No. 1,426,411; Aug. 22.
- Heating unit or hot plate, Electric. L. R. Hamlin. No. 1,436,034; Nov. 21.
- Heddle. H. Ruegg, jr. (Reissue.) No. 1,550,9; Dec. 19.
- Heddle frame. S. G. Bennett. No. 1,434,189; Oct. 31.
- Hedge and like trimming apparatus. E. R. Janes and C. H. Adams. No. 1,426,989; Aug. 22.
- Hedges, shrubbery, etc., Shearing device for trimming. G. Szucs and L. Haberstroh, jr. No. 1,434,858; Nov. 7.
- Heel. H. Bonawitz. No. 1,439,600; Dec. 19.
- Heel. C. H. Hall. No. 1,415,442; May 9.
- Heel. G. C. Seymour. No. 1,438,143; Dec. 5.
- Heel. R. E. Tabor. No. 1,409,615; Mar. 14.
- Heel. A. Twarogowski. No. 1,409,431; Mar. 14.
- Heel attaching. F. E. Bertrand. No. 1,409,359; Mar. 14.
- Heel-attaching machine. T. Lund. No. 1,406,990; Feb. 21.
- Heel attachment. F. Ramsay. No. 1,403,523; Jan. 17.
- Heel binder. E. W. Wood. No. 1,424,609; Aug. 1.
- Heel-blank-building machine. J. E. Mitchell and D. Parks. No. 1,432,080; Oct. 17.
- Heel-blank-clamping device. H. B. Munson. No. 1,432,082; Oct. 17.
- Heel-breasting machine. D. W. Bunker. No. 1,426,354; Aug. 22.
- Heel-breasting machine. R. C. Simmons. No. 1,423,743; July 25.
- Heel-building machine. T. Lund. No. 1,439,014; Dec. 19.
- Heel-building machine. R. C. Simmons. No. 1,430,032; Sept. 26.
- Heel-building machine. E. E. Winkley. No. 1,407,182; Feb. 21.
- Heel-building machine. E. E. Winkley. No. 1,427,884; Sept. 5.
- Heel-building machines, Heel-forming attachment for. J. E. Mitchell and D. Parks. No. 1,403,184; Jan. 10.
- Heel-burnishing machine. T. Lund. No. 1,412,085; Apr. 11.
- Heel-clamping device. J. P. Huber. No. 1,409,446; Mar. 14.
- Heel-clamping device for use in trimming unattached heels. H. B. Munson. No. 1,409,565; Mar. 14.
- Heel-clamping device, Wood. F. A. Reardon. No. 1,425,543; Aug. 15.
- Heel-covering trimming apparatus. P. R. Glass. No. 1,406,370; Feb. 14.
- Heel cushion. P. Lloy. No. 1,403,970; Jan. 17.
- Heel, Cushion. A. K. Pomeroy. No. 1,432,617; Oct. 17.
- Heel, Cushion. G. J. Winter. No. 1,407,506; Feb. 21.
- Heel, Detachable. H. S. Aramian. No. 1,408,964; Mar. 7.
- Heel, Detachable. M. Juriss. No. 1,432,340; Oct. 17.
- Heel, Detachable shoe. A. J. Berube. No. 1,435,797; Nov. 14.
- Heel fastener. L. Cerf. No. 1,423,787; July 25.
- Heel for ladies' shoes. D. Berger. No. 1,411,264; Apr. 4.
- Heel for women's shoes. A. A. Fortunato. No. 1,417,156; May 23.
- Heel gauge. J. S. Lansill. No. 1,423,859; July 25.
- Heel-gouging and lip-cutting machine. J. H. Pope. (Reissue.) No. 15,448; Sept. 5.
- Heel-lift container. T. Lund. No. 1,433,560; Oct. 31.
- Heel-lift graders, Work support and feed for. L. A. Cogswell. No. 1,433,873; Oct. 31.
- Heel lifts, Device for forming. F. V. Hart. No. 1,411,351; Apr. 4.
- Heel lifts, Machine for cutting and assembling sectional. J. H. Pope. No. 1,436,722; Nov. 28.
- Heel lining for repairing shoes. H. F. Weston. No. 1,418,855; June 6.
- Heel-log-cutting machine. J. E. Mitchell and D. Parks. No. 1,423,621; July 25.
- Heel-making machine. R. C. Simmons. No. 1,407,337; Feb. 21.
- Heel, Metal. F. H. Anthos. No. 1,417,881; May 30.
- Heel, Metallic. R. R. Kirsch. No. 1,412,081; Apr. 11.
- Heel, Metallic. R. R. Kirsch. No. 1,425,866; Aug. 15.
- Heel-mold-washing device. W. D. Kment. No. 1,407,757; Feb. 28.
- Heel-nailing machine. G. M. Pettengill. No. 1,425,540; Aug. 15.
- Heel-nailing machines, Cement-applying device for. G. M. Pettengill. No. 1,412,571; Apr. 11.
- Heel or lift, Double-cushioned shoe. M. G. Hart. No. 1,422,854; July 18.
- Heel plate. N. Harris. No. 1,426,186; Aug. 15.
- Heel-preparing machine, Shoe. A. Perri. No. 1,405,800; Feb. 7.
- Heel protector for ladies' shoes. F. E. Miller. No. 1,417,934; May 30.
- Heel reinforcement, Shoe. M. Signoff. No. 1,402,671; Jan. 3.
- Heel, Removable. H. J. Champagne. No. 1,427,261; Aug. 29.

Alphabetical list of inventions—Continued.

- Heel, Resilient. W. H. Clarke. No. 1,425,509; Aug. 15.
 Heel, Resilient. T. M. Conger. No. 1,440,060; Dec. 26.
 Heel, Resilient. E. Fuzessery. No. 1,416,279; May 16.
 Heel, Resilient. A. Troiano. No. 1,409,070; Mar. 7.
 Heel rest. W. Bernstein. No. 1,431,623; Oct. 10.
 Heel rest, Adjustable. H. Snyder. No. 1,433,859; Oct. 31.
 Heel-seat-fitting machine. D. W. Bowie. No. 1,432,524; Oct. 17.
 Heel-seat-shaping machine. S. Stella. No. 1,412,375; Apr. 11.
 Heel-seating machine. Wood. L. B. Whipple. No. 1,429,309; Sept. 19.
 Heel-shaping machine. N. L. Gulliford. No. 1,433,002; Oct. 24.
 Heel-shaping machines, Swinging bracket for. J. H. Vinton. No. 1,405,879; Feb. 7.
 Heel, Shoe. L. S. Barron. No. 1,424,975; Aug. 8.
 Heel, Shoe. H. E. Boswell. No. 1,414,545; May 2.
 Heel, Shoe. F. Redman. Nos. 1,439,757-8; Dec. 26.
 Heel, Shoe. B. Summerfield. No. 1,426,019; Aug. 15.
 Heel, Shoe. A. Weiss. No. 1,409,983; Mar. 21.
 Heel, Shoe. F. F. Williams. No. 1,404,822; Jan. 31.
 Heel, Spring. E. L. White. No. 1,422,511; July 11.
 Heel-turning machine. Wood. L. B. Whipple. No. 1,412,910; Apr. 18.
 Heel, Wood. R. A. Wentworth. No. 1,435,677; Nov. 14.
 Heels, Antiskid device for shoe. G. H. Rives. No. 1,431,045; Oct. 3.
 Heels, Attachment for shoe. F. R. Chaudet. No. 1,431,933; Oct. 17.
 Heels, Fastening device for detachable shoe. L. Iannelle. No. 1,430,168; Sept. 26.
 Heels, Machine for concaving the breast edges of. W. Hubbard. No. 1,435,234; Nov. 14.
 Heels, Means for securing shoe. S. Elfman. No. 1,439,301; Dec. 19.
 Heels to shoes, Clamping device for attaching. E. N. Chase. No. 1,405,098; Jan. 31.
 Heeling machine. B. F. Mayo. No. 1,415,941; May 16.
 Helical ramming machines, Flask-centering device for. J. Montgomery. No. 1,434,960; Nov. 7.
 Helicals on rollers, and the like, Reversing mechanism for machines cutting right and left hand. O. Shaw and W. F. Roberts. No. 1,438,405; Dec. 12.
 Helicopter. W. Haupt. No. 1,414,410; May 2.
 Helicopter machines, System of propellers of variable incidence and differential motion for. R. P. Pescara. No. 1,403,624; Jan. 17.
 Helm-limiting device. A. D. Trenor. No. 1,405,078; Jan. 31.
 Helmet. J. H. Gilson. No. 1,434,607; Nov. 7.
 Helmet, Diving. T. A. Wood. No. 1,409,808; Mar. 14.
 Hemoglobinometer and illuminating device therefor. A. Dare. No. 1,414,261; Apr. 25.
 Hemoglobinometers, Prism for. K. Fuchs. No. 1,429,072; Sept. 12.
 Hemp or other fibrous material, Machine for treating or breaking and scutching. W. A. Shely. No. 1,410,416; Mar. 21.
 Hencoop. A. E. Pickering. No. 1,436,109; Nov. 21.
 Hernia bandage for infants. W. J. Ream. No. 1,404,891; Jan. 31.
 Hexamethylene tetramine, Manufacture of. H. Plauson. No. 1,408,826; Mar. 7.
 Hide splitters, Stamping attachment for. J. F. Neiley. No. 1,416,967; May 23.
 Hides and hide-treating apparatus, Treating. C. J. Glasel. No. 1,414,404; May 2.
 Hides and preparing the same, Tanning substance for tanning animal. O. Löw-Beer. No. 1,421,701; July 4.
 Hides and skins, Machine for treating. C. P. Bossert. No. 1,421,662; July 4.
 Hides and skins, Tanning. E. W. Merry. No. 1,427,221; Aug. 29.
 Hides, Apparatus for treating. E. J. Allhiser. No. 1,411,249; Apr. 4.
 Hides, Machine for ungraining and softening. C. Franson. No. 1,425,467; Aug. 8.
 High and low speed wrench. W. F. Adams. No. 1,409,510; Mar. 14.
 High-capacity spring. J. F. O'Connor. Nos. 1,439,374-5; Dec. 19.
 High chair, Baby. J. W. Franz. No. 1,437,175; Nov. 28.
 High chair, Combination convertible. T. and H. G. Ernst. No. 1,427,795; Sept. 5.
 High-potential switch. G. T. Southgate. No. 1,417,420; May 23.
 High pressure, Device for generating. A. E. Guy. No. 1,419,844; June 13.
 High-speed cutting tools, Making. J. H. L. De Bats. No. 1,415,021; May 9.
 High-speed jack. J. C. Kopf and F. H. Schwerin. No. 1,410,577; Mar. 28.
 High-speed tools material. A. Boerder. No. 1,415,085; May 9.
 Hinge. W. C. Baxter. No. 1,422,651; July 11.
 Hinge. J. Brower. No. 1,438,215; Dec. 12.
 Hinge. F. Burns. No. 1,409,663; Mar. 14.
 Hinge. W. L. Evans, Jr. Nos. 1,407,739-40; Feb. 28.
 Hinge. W. L. Evans, Jr. No. 1,407,790; Feb. 28.
 Hinge. W. L. Evans, Jr. Nos. 1,412,107-9; Apr. 11.
 Hinge. L. Faust. No. 1,433,607; Oct. 31.
 Hinge. V. Flonowicz. No. 1,427,279; Aug. 29.
 Hinge. C. M. French. No. 1,427,800; Sept. 5.
 Hinge. F. J. Fritgen. No. 1,439,542; Dec. 19.
 Hinge. F. A. Fuller. No. 1,408,727; Mar. 7.
 Hinge. F. Goblet. No. 1,420,481; June 20.
 Hinge. R. L. Hall. No. 1,418,919; June 6.
 Hinge. A. S. Hedstrom. No. 1,418,076; May 30.
 Hinge. J. B. Kunkel. No. 1,402,871; Jan. 10.
 Hinge. F. A. Langston and G. A. Hoard. No. 1,416,039; May 16.
 Hinge. F. D. Leslie. No. 1,429,513; Sept. 19.
 Hinge. S. W. Lyman. No. 1,416,656; May 16.
 Hinge. J. R. Moody. No. 1,423,004; July 18.
 Hinge. J. R. Moody. No. 1,423,812; July 25.
 Hinge. H. A. Paul. No. 1,429,527; Sept. 19.
 Hinge. E. J. G. Phillips. No. 1,432,782; Oct. 24.
 Hinge. C. J. Soss. No. 1,402,103; Jan. 3.
 Hinge. I. L. Van Etten. No. 1,405,362; Jan. 31.
 Hinge. P. C. Wallace. No. 1,404,498; Jan. 24.
 Hinge. V. Webber. No. 1,419,479; June 13.
 Hinge, Adjustable. W. B. McDonald. No. 1,423,350; July 18.
 Hinge and door holder, Combined. T. W. Fade. No. 1,429,416; Sept. 19.
 Hinge and stop for desk lids, Combined. C. A. Brown. No. 1,423,513; July 25.
 Hinge, Antifriction. F. E. Howard. No. 1,435,907; Nov. 14.
 Hinge, Butt. F. A. Myers. No. 1,409,461; Mar. 14.
 Hinge check. G. Vuille. No. 1,423,784; July 25.
 Hinge, Concealed. N. J. Lundeen. No. 1,420,326; June 20.
 Hinge construction, Spring-. P. T. Simmons and R. I. Rhodes. No. 1,416,895; May 23.
 Hinge, Door. H. H. Shults. No. 1,410,840; Mar. 23.
 Hinge, Door or gate. E. L. Holmwood. No. 1,436,765; Nov. 28.
 Hinge, Farm-gate. R. McLaughlin. No. 1,421,794; July 4.
 Hinge, Fastening. J. A. Brady. No. 1,404,087; Jan. 17.
 Hinge for doors. H. W. Govin. No. 1,433,272; Oct. 24.
 Hinge for gates and other closures. A. H. Neller. No. 1,437,736; Dec. 5.
 Hinge, Gate. W. E. Connolly. No. 1,437,722; Dec. 5.
 Hinge, Hood. G. A. Lyon. No. 1,407,941; Feb. 28.
 Hinge, Invisible. W. Bobek. No. 1,410,052; Mar. 21.
 Hinge joint. G. W. Goodridge. No. 1,422,048; July 4.
 Hinge joint. W. G. Wehrman. No. 1,419,791; June 13.
 Hinge lock. L. Seger. No. 1,437,204; Nov. 28.
 Hinge pintle, Self-oiling. R. E. Peary. No. 1,433,095; Oct. 24.
 Hinge, Safety. N. Knuth. No. 1,412,875; Apr. 18.
 Hinge, Screen-door. P. J. Glancey. No. 1,408,583; Mar. 7.
 Hinge snap. J. McGiveney. No. 1,425,995; Aug. 15.
 Hinge, Spring. C. E. Bailey. No. 1,427,929; Sept. 5.
 Hinge, Spring. C. Bock. No. 1,425,939; Aug. 15.
 Hinge, Spring. F. X. Maier. No. 1,417,084; May 23.
 Hinge structure. J. Ledwinka. No. 1,412,881; Apr. 18.
 Hinge structure. E. H. Phipps. No. 1,417,563; May 30.
 Hinge, Window. F. Schlais. No. 1,417,110; May 23.
 Hitch. W. E. Cook. No. 1,404,928; Jan. 31.
 Hitch. E. Newman. No. 1,417,344; May 23.
 Hitch and draw bar attachment. J. B. Bleoo. No. 1,412,834; Apr. 18.
 Hitch device. R. J. Altgelt. No. 1,428,517; Sept. 12.
 Hitch device, Universal. A. G. and A. Ronning. No. 1,406,418; Feb. 14.
 Hitch rack. L. H. Jacobs. No. 1,417,385; May 23.
 Hitch, Release. R. B. Johnston. No. 1,419,265; June 13.
 Hitch, Shifting. J. C. Porterfield. No. 1,428,903; Sept. 12.
 Hitching element. E. N. Butterfield. No. 1,412,840; Apr. 18.
 Hives, Apparatus for raising sections of. N. Giard. No. 1,436,586; Nov. 21.
 Hob. C. J. Irwin. No. 1,431,402; Oct. 10.
 Hob and making it. W. F. Zimmermann. No. 1,430,485; Sept. 26.
 Hobbyhorse. C. H. Lister. No. 1,424,364; Aug. 1.
 Hockey stick. Z. A. Hall. No. 1,438,030; Dec. 5.
 Hod elevator. C. W. Anderson. No. 1,416,395; May 16.
 Hoe. C. H. Clark. No. 1,428,680; Sept. 12.
 Hoe. J. F. Stekley. No. 1,404,666; Jan. 24.
 Hoe drill. W. H. Mitchell. No. 1,415,674; May 9.
 Hoe, Power. H. D. Pratt. No. 1,437,358; Nov. 28.
 Hoe, Wheel. C. E. Curtiss. No. 1,428,581; Sept. 12.
 Hog brooder and feeder, Combination. A. Ford. No. 1,439,157; Dec. 19.
 Hog-catching device. E. E. Pennington. No. 1,430,847; Oct. 3.
 Hog-farrowing guard rail. P. W. Stanke. (Reissue.) No. 15,287; Feb. 14.
 Hog feeder. G. W. Smidley. No. 1,417,212; May 23.
 Hog-ringing apparatus. W. L. Eckery. No. 1,438,814; Dec. 12.
 Hog scrapers, Beater belt for. K. E. Kersten. (Reissue.) No. 15,318; Mar. 28.
 Hog-scraping knife. T. W. Stewart. No. 1,405,457; Feb. 7.
 Hogs, Singeing. R. D. MacLaurin. No. 1,422,217; July 11.
 Hoist. W. H. Baltes. No. 1,402,469; Jan. 3.
 Hoist. W. C. Briggs. No. 1,432,741; Oct. 24.
 Hoist. J. Ditson. No. 1,421,183; June 27.
 Hoist. F. E. Drake. No. 1,426,264; Aug. 15.
 Hoist. C. B. Johnson. No. 1,412,527; Apr. 11.

Alphabetical list of inventions—Continued.

- Hoist. E. S. Kimball. No. 1,411,733; Apr. 4.
 Hoist. A. H. Neller. No. 1,432,409; Oct. 17.
 Hoist. L. and F. Pignani. No. 1,425,792; Aug. 15.
 Hoist. W. Prockter. No. 1,410,118; Mar. 21.
 Hoist brake. H. S. Myers. No. 1,413,421; Apr. 18.
 Hoist buckets. Bail for skip. W. E. Hale. No. 1,430,985; Oct. 3.
 Hoist cages, Safety arrangement for charging devices of L. Thallmayer. No. 1,435,564; Nov. 14.
 Hoist. Combination locomotive and coach. S. T. Sjoberg. No. 1,438,341; Dec. 12.
 Hoist. Double-drum. J. Ditson. No. 1,417,041; May 23.
 Hoist. Dump. C. Losch. No. 1,414,426; May 2.
 Hoist. Dump-body. J. R. Junkin. No. 1,440,155; Dec. 26.
 Hoist. Equalizing. W. S. Livengood. No. 1,417,187; May 23.
 Hoist. Fluid. J. P. Heil. No. 1,421,469; July 4.
 Hoist for sugar cane and the like, Weighing. H. F. Rugles. No. 1,436,727; Nov. 28.
 Hoist. Hog. L. A. Kramer. No. 1,428,336; Sept. 5.
 Hoist. Mechanical. F. E. Ackerman. No. 1,423,638; July 25.
 Hoist. Mechanical. A. W. Waern. No. 1,419,181; June 13.
 Hoist. Piano. S. B. Bilger. No. 1,428,875; Sept. 12.
 Hoist. Traveling. R. L. Neubert. (Reissue.) No. 15,295; Feb. 28.
 Hoist. Trolley, Dredging. J. Perna. No. 1,428,114; Sept. 5.
 Hoisting and conveying device. D. S. Andrews. Nos. 1,417,014-15; May 23.
 Hoisting and conveying device. D. S. Andrews. No. 1,429,012; Sept. 12.
 Hoisting and conveying machine. D. S. Andrews. No. 1,417,013; May 23.
 Hoisting and straw-conveying machine. T. A. and W. T. Wood. No. 1,439,047; Dec. 19.
 Hoisting apparatus. W. E. Boehck. No. 1,417,022; May 23.
 Hoisting apparatus. H. S. Gardner. No. 1,428,160; Sept. 5.
 Hoisting apparatus. W. H. Insley and A. C. Rasmussen. No. 1,428,888; Sept. 12.
 Hoisting apparatus. L. H. Kiesling. No. 1,435,859; Nov. 14.
 Hoisting apparatus. F. H. Laue. No. 1,408,522; Mar. 7.
 Hoisting apparatus. G. F. Meyers. No. 1,427,310; Aug. 29.
 Hoisting apparatus. W. J. Nelson. No. 1,412,956; Apr. 18.
 Hoisting apparatus. A. E. Norris. No. 1,419,167; June 13.
 Hoisting apparatus. A. C. Rasmussen and C. G. Schmid. No. 1,428,906; Sept. 12.
 Hoisting apparatus. C. C. Scharpenberg and L. G. Gates. No. 1,437,685; Dec. 5.
 Hoisting apparatus. C. E. Smith. No. 1,428,971; July 25.
 Hoisting apparatus. L. T. Tucker. No. 1,422,904; July 18.
 Hoisting apparatus. Control mechanism for. S. Arnold. 3d. No. 1,425,569; Aug. 15.
 Hoisting apparatus. Portable. A. J. Arwine. No. 1,429,216; Sept. 19.
 Hoisting device. C. E. Allison. No. 1,413,884; Apr. 25.
 Hoisting device. T. Carlson. No. 1,434,478; Nov. 7.
 Hoisting device. J. M. Kryl. No. 1,439,174; Dec. 19.
 Hoisting device. M. D. Potter. No. 1,426,503; Aug. 22.
 Hoisting device. H. Stahl. No. 1,434,457; Nov. 7.
 Hoisting devices. Automatic brake for. G. Kleber. No. 1,408,209; Feb. 28.
 Hoisting drum. P. Barney. No. 1,436,375; Nov. 21.
 Hoisting drum. J. R. Suman and A. R. Gamble. No. 1,414,795; May 2.
 Hoisting-drum control. L. D. Ekin. No. 1,417,465; May 23.
 Hoisting engines. Swinging drum for. A. J. Imhoff. No. 1,419,855; June 13.
 Hoisting hook. W. C. Carey. No. 1,434,991; Nov. 7.
 Hoisting machine. C. W. Anderson. No. 1,426,139; Aug. 15.
 Hoisting machine. J. G. Johnson. No. 1,417,386; May 23.
 Hoisting machines. Combination automatic and lowering brake for. F. A. Rundle. (Reissue.) No. 15,302; Mar. 7.
 Hoisting materials. Apparatus for. H. S. Gardner. No. 1,420,310; June 20.
 Hoisting means. T. M. Nichols. No. 1,434,624; Nov. 7.
 Hoisting mechanism. H. C. Beckwith. No. 1,431,090; Oct. 3.
 Hoisting mechanism. R. E. Gurley. No. 1,404,287; Jan. 24.
 Hoisting mechanism. W. F. Irrgang. No. 1,430,655; Oct. 3.
 Hoisting mechanism. D. R. Knapp. No. 1,439,245; Dec. 19.
 Hoisting mechanism. D. F. Lepley. No. 1,419,155; June 13.
 Hoisting mechanism. F. J. Schuman and B. S. Rothwell. No. 1,408,645; Mar. 7.
 Hoisting mechanism. B. S. Snow. No. 1,429,653; Sept. 19.
 Hoists. Apron-feed loader for skip. W. E. Hale. No. 1,413,401; Apr. 18.
 Hoists. Brake for. W. S. Livengood. No. 1,425,600; Aug. 15.
 Hoists. Limit switch for electric-driven. R. E. Rice. No. 1,423,624; July 25.
 Hoists. Means for actuating ammunition. H. W. Lee and J. W. Swindale. No. 1,428,171; Sept. 5.
 Hoists. Overspeed control for. D. F. Lepley. No. 1,419,154; June 13.
 Holddown device. J. A. Kearney. No. 1,429,952; Sept. 26.
 Holder. A. D. Avery. No. 1,403,464; Jan. 10.
 Holder. P. Dahl. No. 1,436,484; Nov. 21.
 Holder. M. Glass. No. 1,423,415; July 18.
 Holder. A. H. and G. W. Markert. No. 1,436,814; Nov. 28.
 Holder. I. Tudor. No. 1,438,794; Dec. 12.
 Holder. S. B. T. Worden. No. 1,433,167; Oct. 24.
 Holder bracket. L. B. Cole. No. 1,439,067; Dec. 19.
 Holder. Indicating and advertising means. Combined. C. M. Feist. No. 1,436,583; Nov. 21.
 Holder or stand. Article. O. K. Boyette. No. 1,407,721; Feb. 28.
 Holder or support. G. H. Backmire. No. 1,438,808; Dec. 12.
 Holding and lifting by means of suckers. Apparatus for. F. B. Waldron. No. 1,426,692; Aug. 22.
 Holding and weighing mechanism. A. S. Samuels. No. 1,407,224; Feb. 21.
 Holding appliances while heated. Instrument for. R. H. W. Strang. No. 1,415,414; May 9.
 Holding device. T. Herkert. No. 1,434,614; Nov. 7.
 Holding device. R. Ploch. No. 1,412,019; Apr. 4.
 Holding means. F. Chumbley. No. 1,432,052; Oct. 17.
 Hole cutter. Square. A. Lysiak. No. 1,402,510; Jan. 3.
 Hole gauge. M. Bartholdy. No. 1,420,951; June 27.
 Holes. Device for drilling square. H. Swift. No. 1,408,042; Feb. 28.
 Holes. Means for drilling polygonal. R. Bartholomäus. No. 1,423,072; July 18.
 Hollow articles. Making. S. H. Heist. No. 1,402,293; Jan. 3.
 Hollow construction. members. Making. H. Junkers. No. 1,427,904; Sept. 5.
 Hollow metal articles. Process and apparatus for enlarging. W. H. Mason. No. 1,409,562; Mar. 14.
 Holster and supporting belt. J. A. Hay and C. E. Dixon. No. 1,439,310; Dec. 19.
 Homogenizer. L. J. Phelps. No. 1,423,488; July 18.
 Homogenizer. E. M. White. No. 1,423,170; July 18.
 Hones. Holder for sharpening. H. Skreberg. No. 1,433,855; Oct. 31.
 Honey. Apparatus for producing sticks of comb. G. W. Babcock. No. 1,407,244; Feb. 21.
 Honeycomb and cappings melter. C. Smedley. No. 1,405,023; Jan. 31.
 Honeycomb frame. H. C. Hartman. No. 1,411,094; Mar. 28.
 Honey extractor. B. M. Crawford. No. 1,414,260; Apr. 25.
 Honey extractor. W. D. Peel. No. 1,437,737; Dec. 5.
 Hood and helmet. Pure air. J. W. Knoblock. No. 1,410,926; Mar. 28.
 Hood fastener. H. B. Gape. No. 1,422,691; July 11.
 Hood fastener. A. L. Shutter. No. 1,435,668; Nov. 14.
 Hoods to articles. Machine for applying. T. G. McGirr. No. 1,423,237; July 18.
 Hook. *See—*
 Anchor hook. Hoisting hook.
 Auto skid-chain hook. Lacing hook.
 Bale hook. Latching hook.
 Bucket-loading hook. Logging hook.
 Butt hook. Metal hook.
 Buttonhook. Mud hook.
 Cant hook. Picture hook.
 Car-door-locking hook. Releaseable hook.
 Chain hook. Releasing hook.
 Cord fastening hook. Safety hook.
 Corn hook. Safety lifting hook.
 Corn-husking hook. Snap hook.
 Drapery hook. Spring hook.
 Electrolysis suspension hook. Supporting hook.
 Fishing hook. Tackle hook.
 Gaff hook. Tire-chain hook.
 Grip hook. Touting hook.
 Harness hook. Towing hook.
 Hook. J. O. Erickson. No. 1,439,302; Dec. 19.
 Hook. R. J. Kent. No. 1,420,487; June 20.
 Hook. C. Marona and B. Villiott. No. 1,420,724; June 27.
 Hook and eye. M. D. Forrest. No. 1,418,244; May 30.
 Hook and eye. H. V. Rau. No. 1,407,482; Feb. 21.
 Hook and eye tape. A. M. Hess. No. 1,429,343; Sept. 19.
 Hook fastener. Flat. J. A. Storm. No. 1,419,326; June 13.
 Hook hold. H. L. Whiteley. No. 1,402,330; Jan. 3.
 Hook positioner. W. T. Hurst. No. 1,424,479; Aug. 1.
 Hook. Safety. P. Protis. No. 1,402,652; Jan. 3.
 Hook snatch block. Sister. S. D. Le Clair. No. 1,436,348; Nov. 21.
 Hook-switch mechanism. R. H. Manson. No. 1,427,160; Aug. 29.
 Hooks. Guard for. F. E. Abbott. No. 1,411,549; Apr. 4.
 Hoop. *See—*
 Cheese hoop. Playing hoop.
 Hoop. J. A. Penney. No. 1,434,312; Oct. 31.
 Hoop. Adjustable. J. Lynn. No. 1,424,661; Aug. 1.
 Hoop fastening. G. A. Le Fevre and H. Hutchinson. No. 1,419,392; June 13.

- Hoop-forming machine. W. W. Putney. No. 1,421,829; July 4.
- Hoop-forming machine. J. E. Wright. No. 1,426,028; Aug. 15.
- Hoop guide. J. Cole. No. 1,427,070; Aug. 22.
- Hoop holder, Order-. O. F. Kloetzer. No. 1,439,557; Dec. 19.
- Hoop-stretching device. W. B. Gilbert. No. 1,421,935; July 4.
- Hopper and chute, Loading. A. L. Stephens. No. 1,417,780; May 30.
- Hopper construction, Sand-. D. J. Campbell. No. 1,405,398; Feb. 7.
- Hopper-door-locking device. W. F. Cremean. No. 1,440,280; Dec. 26.
- Hopper-door mechanism. C. H. Williamson. No. 1,423,287; July 18.
- Hopper, Portable. P. Neary. No. 1,428,605; Sept. 12.
- Horizon, Artificial. E. G. Fischer. No. 1,409,938; Mar. 21.
- Horizontal bar. F. Williams and L. H. Stenvig. No. 1,410,149; Mar. 21.
- Horn. J. Levy. No. 1,403,424; Jan. 10.
- Horn and return ball, Combined. J. J. and C. W. Hopps. No. 1,415,350; May 9.
- Horn attachment. J. B. Fey. No. 1,437,049; Nov. 28.
- Horn, Diaphragm. G. J. Seiss. No. 1,435,340; Nov. 14.
- Horn, Diaphragm warning. L. E. Cowey. No. 1,416,452; May 16.
- Horn, Driving. L. F. Seclar and F. G. Neal. No. 1,431,050; Oct. 3.
- Horn, Mechanically-operated. G. J. Seiss. No. 1,419,313; June 13.
- Horn, Pneumatic. W. A. Garratt. No. 1,427,281; Aug. 29.
- Horn, Pneumatic. W. A. Garratt. No. 1,434,656; Nov. 7.
- Horn, Priming. J. S. and A. G. Sherman. No. 1,439,917; Dec. 26.
- Horns, Bulb for pneumatic warning. F. J. Smith. No. 1,427,497; Aug. 29.
- Horny materials, Manufacture of articles of. E. Norzi. No. 1,421,095; June 27.
- Horse-blanket retainer. W. F. Warneford. No. 1,425,301; Aug. 8.
- Horse collar. R. S. Lene. No. 1,430,513; Sept. 26.
- Horse overshoes, Central connecting member for. E. A. Conner. No. 1,416,333; May 16.
- Horse protector. K. Naudulaitis. No. 1,425,676; Aug. 15.
- Horses, Apparatus for use in shoeing. A. Szabo. No. 1,420,349; June 20.
- Horseshoe. A. A. Bumbaugh. No. 1,403,387; Jan. 10.
- Horseshoe. G. J. Capewell. No. 1,403,071; Jan. 10.
- Horseshoe. J. Cisek. No. 1,426,958; Aug. 22.
- Horseshoe. C. Danielson. No. 1,413,324; Apr. 18.
- Horseshoe. J. B. Gillies. No. 1,429,583; Sept. 19.
- Horseshoe. M. Herger. No. 1,428,167; Sept. 5.
- Horseshoe. J. Hudson, jr. No. 1,435,066; Nov. 7.
- Horseshoe. J. Kosman and M. Grzesik. No. 1,436,810; Nov. 28.
- Horseshoe. A. Len. No. 1,404,208; Jan. 24.
- Horseshoe. A. Lysiak. No. 1,435,169; Nov. 14.
- Horseshoe. M. Michelsen. No. 1,416,658; May 16.
- Horseshoe. T. Wozny. No. 1,424,275; Oct. 31.
- Horseshoe. F. D. Young. No. 1,416,541; May 16.
- Horseshoe antislip device. B. P. Gray. No. 1,419,251; June 13.
- Horseshoe blanks, Machine for making heels on. E. Boone. No. 1,420,517; June 20.
- Horseshoe calk. A. Bulski. No. 1,424,800; Aug. 8.
- Horseshoe, Lawn. C. Zingre. No. 1,424,869; Aug. 8.
- Horseshoe nonskid device. E. C. W. Meyer. No. 1,420,331; June 20.
- Horseshoe pad. H. S. Caryl. No. 1,407,379; Feb. 21.
- Horseshoe pad. R. H. Henemier. No. 1,402,768; Jan. 10.
- Horseshoes, Making heeled. E. Boone. No. 1,420,518; June 20.
- Hose and making same. N. S. Dodge. No. 1,416,400; May 16.
- Hose and rope reel. E. Lamb. No. 1,437,597; Dec. 5.
- Hose, Apparatus for housing. L. E. Baker. No. 1,417,484; May 30.
- Hose clamp. J. S. Anderson. No. 1,435,684; Nov. 14.
- Hose clamp. J. Chaloupka. No. 1,413,003; Apr. 18.
- Hose clamp. C. S. and C. A. Cook. No. 1,406,443; Feb. 14.
- Hose clamp. J. Gentile. No. 1,416,012; May 16.
- Hose clamp. U. H. Hill. No. 1,408,507; Mar. 7.
- Hose clamp. F. Lobl. No. 1,432,882; Oct. 24.
- Hose clamp. J. R. Lowrey. No. 1,426,086; Aug. 15.
- Hose clamp. A. Matuschak. No. 1,412,562; Apr. 11.
- Hose clamp. L. Palmer. No. 1,419,897; June 13.
- Hose clamp. H. A. Schroeder. No. 1,407,583; Feb. 21.
- Hose clamp. H. A. Schroeder. No. 1,432,572; Oct. 17.
- Hose clamp. E. V. Szyperski. No. 1,406,242; Feb. 14.
- Hose clamp. P. H. Wilkinson. No. 1,413,818; Apr. 25.
- Hose, Clamp for cylinder-outlet. A. E. Fry. No. 1,409,696; Mar. 14.
- Hose connection. A. R. Johnson. No. 1,410,405; Mar. 21.
- Hose connection. J. W. Patterson. No. 1,429,766; Sept. 19.
- Hose connections, Cap for. A. C. Rowley. No. 1,404,895; Jan. 31.
- Hose coupling. J. J. Armstrong. No. 1,437,082; Nov. 28.
- Hose coupling. J. P. Eastman. No. 1,428,949; Sept. 12.
- Hose coupling. A. H. Handlan, jr. No. 1,427,105; Aug. 29.
- Hose coupling. A. Kriescher. No. 1,436,317; Nov. 21.
- Hose coupling. A. Williams. No. 1,432,583; Oct. 17.
- Hose coupling, Automatic. W. F. Wall. No. 1,417,433; May 23.
- Hose, Coupling for train-pipe-connection. M. E. Keehan and J. J. Glass. No. 1,429,593; Sept. 19.
- Hose-coupling gasket. E. H. Gold. No. 1,409,373; Mar. 14.
- Hose coupling, Pneumatic. F. A. Jimerson. No. 1,430,558; Oct. 3.
- Hose coupling, Steam. P. M. Griffin. No. 1,402,598; Jan. 3.
- Hose-coupling tool. R. F. Kerben. No. 1,435,071; Nov. 7.
- Hose draining and drying reel. E. P. Endlich. No. 1,427,273; Aug. 29.
- Hose drum and coupling, Combined. W. A. Cox. No. 1,417,459; May 23.
- Hose, Flexible metal. E. Witzemann. No. 1,424,057; July 25.
- Hose holder. D. Souter. No. 1,414,834; May 2.
- Hose-leg supporter. H. B. Newton. No. 1,424,771; Aug. 8.
- Hose, Manufacture of flexible metal. E. Schröder. No. 1,407,001; Feb. 21.
- Hose of predetermined action under pressure. L. A. Subers. No. 1,425,148; Aug. 8.
- Hose protector. V. H. Fairless. No. 1,423,409; July 18.
- Hose support. A. P. Schein. No. 1,405,164; Jan. 31.
- Hose support, Wire garden. A. R. Smith. No. 1,439,383; Dec. 19.
- Hose supporter. H. A. Austin. No. 1,409,355; Mar. 14.
- Hose supporter. L. F. Dion. No. 1,433,535; Oct. 31.
- Hose supporter. C. J. Hazelton. No. 1,432,693; Oct. 17.
- Hose supporter. M. Hawie. Nos. 1,426,635-6; Aug. 22.
- Hose supporter. W. J. Kelly. No. 1,407,200; Feb. 21.
- Hose supporter. N. M. Lancaster. No. 1,416,650; May 16.
- Hose supporter. J. Leonard. No. 1,427,960; Sept. 5.
- Hose supporter. J. Patterson, Jr. No. 1,416,866; May 23.
- Hose supporter. I. N. Pollinger. No. 1,407,082; Feb. 21.
- Hose-supporter button. C. J. Hazelton. No. 1,432,694; Oct. 17.
- Hose supporter clasp. I. Brown. No. 1,421,061; June 27.
- Hose supporters, Button for. C. J. Hazelton. No. 1,432,692; Oct. 17.
- Hose supporters, Loop for. J. F. Hartnett. No. 1,421,222; June 27.
- Hose stand. B. E. Stone. No. 1,425,067; Aug. 8.
- Hosiery. E. Boyd. No. 1,434,941; Nov. 7.
- Hosiery. M. H. Wichmann. No. 1,437,123; Nov. 28.
- Hosiery and making the same, Fashioned. G. P. Bosworth. No. 1,418,617; June 6.
- Hosiery, Drying and shaping structure for drying lace. P. O'Connell. No. 1,402,532; Jan. 3.
- Hosiery-finishing machine. A. Hélot. No. 1,436,037; Nov. 21.
- Hosiery, Means for manufacturing castings for shaping and drying. A. E. Cottom. No. 1,422,675; July 11.
- Hosiery mill waste, Utilization of. H. T. Fleisher. No. 1,424,458; Aug. 1.
- Hospital and maternity use, Apparatus for. W. H. Smith. No. 1,409,255; Mar. 14.
- Hot-air screen. D. E. Matson. No. 1,416,733; May 23.
- Hot-air furnace. W. Abigt. No. 1,431,078; Oct. 3.
- Hot-air furnace. C. A. Beggs. No. 1,414,395; May 2.
- Hot-air furnace. S. P. Kay. No. 1,413,122; Apr. 18.
- Hot-air furnace. J. B. Koehler. No. 1,411,037; Mar. 28.
- Hot-air furnace. A. C. Mott, jr. No. 1,428,047; Sept. 5.
- Hot-air furnace. A. Parviainen. No. 1,436,900; Nov. 28.
- Hot-air furnace. D. A. Scott. No. 1,417,775; May 30.
- Hot-air furnace. A. L. Smith. No. 1,428,665; Sept. 12.
- Hot-air furnace, Tubular. R. Hitchen. No. 1,426,642; Aug. 22.
- Hot-air heater. T. C. Sebring. No. 1,437,451; Dec. 5.
- Hot-air heater, Forced-. H. Harlow. No. 1,407,411; Feb. 21.
- Hot-air regulator. G. P. B. Hoyt. No. 1,412,245; Apr. 11.
- Hotbed. F. Scherler and J. Lamche. No. 1,410,036; Mar. 21.
- Hotbed border. F. F. Sklenka. No. 1,414,593; May 2.
- Hot mill, Continuous. H. G. O'Brien. No. 1,425,537; Aug. 15.
- Hot mills, Plate lifting mechanism for. T. McCabe. No. 1,418,815; June 6.
- Hot water and heating system, Auxiliary. D. A. Brunett. No. 1,402,045; Jan. 3.
- Hot-water heater. B. F. Crisenberry and F. M. Andres. No. 1,402,216; Jan. 3.
- Hot-water-motor appliance. C. C. Rumery and F. G. Spates. No. 1,414,751; May 2.
- Hot-water tanks, Return-pipe connections for. A. R. Watson. No. 1,425,427; Aug. 8.
- House. See—
Aero lighthouse. Toy house.
Sheet-metal house.
House boats and means for propelling the same, Scow or float for. G. C. Hawley. No. 1,421,226; June 27.
House construction. L. Brandt. No. 1,421,124; June 27.
Househeating system. J. Oster. No. 1,426,004; Aug. 15.

Alphabetical list of inventions—Continued.

- Household implement. C. W. Bauer. No. 1,402,470; Jan. 3.
- Housing device, Portable. J. S. White. No. 1,416,146; May 16.
- Hub. E. Juelson. No. 1,419,568; June 13.
- Hub and plate, Locomotive wheel. F. D. Lambert. No. 1,434,444; Nov. 7.
- Hub attachment. L. W. Hensley. No. 1,407,533; Feb. 21.
- Hub-cap-locking device. E. Ibach. No. 1,424,480; Aug. 1.
- Hub for vehicle wheels, Pneumatic. B. v. Loutzkoy. Nos. 1,426,887-8; Aug. 22.
- Hub, Elastic wheel. E. Melin. No. 1,433,638; Oct. 31.
- Hub pull and attachment. T. P. Cain. No. 1,403,389; Jan. 10.
- Hub, Spring. S. N. Bloomdale. No. 1,430,002; Sept. 26.
- Hub spring. H. E. Saverley. No. 1,404,409; Jan. 24.
- Hub, Wheel. E. E. Einfeldt. No. 1,409,161; Mar. 14.
- Hub, Wheel. W. C. George and F. N. Nofsger. No. 1,429,501; Sept. 19.
- Hub, Wheel. J. L. Hecht. No. 1,409,174; Mar. 14.
- Hub, Wheel. M. Van Meter. No. 1,417,119; May 23.
- Hubs and housings, Tool for inserting raceways in. H. R. Hurlbut. No. 1,438,039. Dec. 5.
- Hubs, Making metal wheel. J. L. Hecht. No. 1,409,175; Mar. 14.
- Hubs, Making wheel. E. E. Einfeldt. No. 1,409,213; Mar. 14.
- Hubs, Rotational driving connection such as detachable wheel. J. V. Pugh. No. 1,424,211; Aug. 1.
- Hull construction. R. W. Davis. No. 1,439,153; Dec. 19.
- Hull construction, Sectional. F. S. and F. W. Crossley. No. 1,418,629; June 6.
- Huller: See—
Strawberry huller.
- Huller rib. W. E. B. Jordan. No. 1,424,727; Aug. 1.
- Hullers, Beater adjustment for almond. A. R. Stephen. No. 1,405,726; Feb. 7.
- Hulls, Construction of ships'. H. A. Nickolson. No. 1,402,530; Jan. 3.
- Humidifier. B. M. Mills. No. 1,439,319; Dec. 19.
- Humidifier and palette attachment, Combined. E. Bruck. No. 1,414,338; May 2.
- Humidifying air. P. de Clamecy. No. 1,422,839; July 18.
- Humidifying apparatus. O. D. Hogue. No. 1,430,548; Oct. 3.
- Humidity control. A. W. Lissauer. No. 1,409,221; Mar. 14.
- Humidity controller. A. Roesch. No. 1,429,973; Sept. 26.
- Humidity controller. A. Roesch. No. 1,430,853; Oct. 3.
- Humidor. F. Oakford. No. 1,423,356; July 18.
- Humidor. J. V. Sprague. No. 1,414,381; May 2.
- Humidor, Electric. J. E. Blount. No. 1,424,979; Aug. 8.
- Husker. G. W. Zeier. No. 1,424,060; July 25.
- Huskers and shredders, Snapping rolls for. B. R. Benjamin and G. M. Merwin. No. 1,418,424; June 6.
- Husking and shredding machine, Combined. G. A. Lowry. No. 1,404,779; Jan. 31.
- Husking machine. R. A. Register. No. 1,412,489; Apr. 11.
- Husking mitten. M. Sautter. No. 1,423,543; July 25.
- Husking peg. A. S. Wannemacker. No. 1,430,343; Sept. 26.
- Hutch. J. F. McKim. No. 1,422,283; July 11.
- Hydrant-draining device. L. T. Buckler. No. 1,433,110; Oct. 24.
- Hydrate of terpin, Preparing. R. Marchand. No. 1,411,859; Apr. 4.
- Hydration apparatus. J. C. Schaffer. No. 1,420,153; June 20.
- Hydraulic apparatus. J. Hanson. No. 1,410,100; Mar. 21.
- Hydraulic apparatus. F. O. Wallene. No. 1,411,945; Apr. 4.
- Hydraulic apparatus, Tandem steam. E. N. Gilling. No. 1,407,146; Feb. 21.
- Hydraulic classifier. C. Allen. No. 1,410,152; Mar. 21.
- Hydraulic elevator. T. P. Carson. No. 1,412,920; Apr. 18.
- Hydraulic elevator, Steam. W. H. and E. B. Ridgway. No. 1,419,761; June 13.
- Hydraulic machine. H. P. Binder. No. 1,404,712; Jan. 24.
- Hydraulic machine. N. W. Humphrey. No. 1,404,717; Jan. 24.
- Hydraulic motor. J. Planche. No. 1,413,188; Apr. 18.
- Hydraulic power apparatus. W. L. Shepard. No. 1,409,249; Mar. 14.
- Hydraulic press. J. N. Wood. No. 1,429,665; Sept. 19.
- Hydraulic swivel. W. E. King. No. 1,432,109; Oct. 17.
- Hydraulic transportation system. B. M. Jones. No. 1,419,143; June 13.
- Hydraulic water gate. J. Bergdorf. No. 1,405,390; Feb. 7.
- Hydrazobenzol and its homologues, Deriving. W. H. Mahler. No. 1,405,732; Feb. 7.
- Hydroaeroplane. J. B. Anderson. No. 1,420,606; June 20.
- Hydroaeroplane. J. W. Bowen, S. M. Hart, and J. E. Bowen. No. 1,427,257; Aug. 29.
- Hydroaeroplane. G. H. Curtiss. No. 1,420,609; June 20.
- Hydroaeroplane off the water into the air, Getting a. G. H. Curtiss. No. 1,420,610; June 20.
- Hydrocarbon blast burner. W. C. Buell and W. H. Scheib. No. 1,404,429; Jan. 24.
- Hydrocarbon burner. E. C. Corado. No. 1,404,343; Jan. 24.
- Hydrocarbon burner. C. E. Corado. No. 1,413,968; Apr. 25.
- Hydrocarbon burner. C. E. Corado. No. 1,422,930; July 18.
- Hydrocarbon burner. F. V. Detwiler. No. 1,422,752; July 11.
- Hydrocarbon burner. J. C. Higgins. No. 1,404,610; Jan. 24.
- Hydrocarbon burner. J. C. Hurley. No. 1,406,739; Feb. 14.
- Hydrocarbon burner. J. R. Karr and C. L. Sheppard. No. 1,407,283; Feb. 21.
- Hydrocarbon burner. F. H. McFall. No. 1,433,392; Oct. 24.
- Hydrocarbon burner. E. G. Mummery. No. 1,410,214; Mar. 21.
- Hydrocarbon burner. C. A. Orr. No. 1,434,021; Oct. 31.
- Hydrocarbon burner. F. H. Schulenberg. No. 1,411,749; Apr. 4.
- Hydrocarbon burner. F. Schulz. No. 1,415,123; May 9.
- Hydrocarbon burner. D. M. Syme. No. 1,430,415; Sept. 26.
- Hydrocarbon burner. B. F. Weber. No. 1,434,238; Oct. 31.
- Hydrocarbon-burner apparatus. C. A. Orr. No. 1,415,384; May 9.
- Hydrocarbon containers, Attachment for. J. Bingman. No. 1,424,068; July 25.
- Hydrocarbon engine. W. Dinwiddie. No. 1,426,049; Aug. 15.
- Hydrocarbon engine. C. J. Kierum. No. 1,418,307; June 6.
- Hydrocarbon engine. G. Loeffler and M. J. Cohen. No. 1,414,987; May 2.
- Hydrocarbon engine. H. R. Ricardo. No. 1,425,054; Aug. 8.
- Hydrocarbon engines, Oil-purifying apparatus for. J. A. Watson. Nos. 1,431,346-7; Oct. 10.
- Hydrocarbon from aluminum chloride, Separating. E. V. Owen. No. 1,430,109; Sept. 26.
- Hydrocarbon fuel, Burner for liquid. F. P. Schmitt. No. 1,421,031; June 27.
- Hydrocarbon-gas burner. C. L. Torrey. No. 1,403,656; Jan. 17.
- Hydrocarbon generator. G. N. Blanchard. No. 1,416,328; May 16.
- Hydrocarbon heater. G. S. Barrows. No. 1,408,433; Mar. 7.
- Hydrocarbon material, Making unsaturated. A. A. Wells. No. 1,418,414; June 6.
- Hydrocarbon motor. L. Blackmore. No. 1,410,361; Mar. 21.
- Hydrocarbon motor. H. D. Church. No. 1,403,540; Jan. 17.
- Hydrocarbon motor. H. D. Church. No. 1,415,086; May 9.
- Hydrocarbon motor. H. D. Church. No. 1,422,338; July 11.
- Hydrocarbon motor. H. P. Doolittle. No. 1,424,394; Aug. 1.
- Hydrocarbon motor. O. E. Hunt. No. 1,402,863; Jan. 10.
- Hydrocarbon motor. T. J. Little, jr. No. 1,434,129; Oct. 31.
- Hydrocarbon motor. C. R. Short. No. 1,403,350; Jan. 10.
- Hydrocarbon motor. J. G. Vincent. No. 1,409,073; Mar. 7.
- Hydrocarbon motor. J. G. Vincent. No. 1,415,067; May 9.
- Hydrocarbon motor. J. G. Vincent. No. 1,418,408; June 6.
- Hydrocarbon motor. J. G. Vincent. No. 1,424,428; Aug. 1.
- Hydrocarbon motor. J. G. Vincent. No. 1,431,435; Oct. 10.
- Hydrocarbon motor. J. G. Vincent. No. 1,434,638; Nov. 7.
- Hydrocarbon motor. D. M. White. No. 1,419,654; June 13.
- Hydrocarbon motor. L. M. Woolson. No. 1,415,080; May 9.
- Hydrocarbon motor. L. M. Woolson. No. 1,424,430; Aug. 1.
- Hydrocarbon motors, Fuel-heating device for. C. R. Short. No. 1,431,335; Oct. 10.
- Hydrocarbon motors, Propeller drive for. O. E. Hunt. No. 1,415,092; May 9.
- Hydrocarbon motors, Vibration damper for. J. G. Vincent. No. 1,422,324; July 11.
- Hydrocarbon product and making same. H. H. Culmer. No. 1,430,538; Oct. 3.
- Hydrocarbon products, Producing. C. L. Lighthome. No. 1,434,300; Oct. 31.
- Hydrocarbons and the like, Manufacture of light. W. F. Rittman. No. 1,419,121; June 6.
- Hydrocarbons and their oxidation products, Oxidizing. G. Teichner. No. 1,436,214; Nov. 21.
- Hydrocarbons, Apparatus for cracking. E. V. Stone. No. 1,403,458; Jan. 10.
- Hydrocarbons, Apparatus for refining. W. O. Snelling. No. 1,402,455; Jan. 3.
- Hydrocarbons, Apparatus for the production of halogenated. A. A. Backhaus. No. 1,403,338; Jan. 3.
- Hydrocarbons, Constructive conversion of. H. R. Berry. No. 1,429,910; Sept. 19.
- Hydrocarbons from a water mixture, Separating and toping. W. A. Brown. No. 1,410,610; June 13.

- Hydrocarbons from heavier hydrocarbons, Process of and apparatus for producing lighter. C. V. Woegerer. No. 1,429,992; Sept. 26.
- Hydrocarbons from oil shale, Process and apparatus for recovery of. C. W. Thompson. No. 1,428,458; Sept. 5.
- Hydrocarbons from petroleum oils, Continuous production of low-boiling-point. R. W. Hanna. No. 1,419,378; June 13.
- Hydrocarbons, Making low-boiling. C. M. Alexander. No. 1,404,725; Jan. 31.
- Hydrocarbons, Making low-boiling. C. M. Alexander. No. 1,411,255; Apr. 4.
- Hydrocarbons, Manufacture of chlorinated derivatives of. G. T. Koch. No. 1,432,761; Oct. 24.
- Hydrocarbons, Method of and apparatus for producing. W. Munder. No. 1,431,246; Oct. 10.
- Hydrocarbons motor. J. Be Gole. No. 1,437,708; Dec. 5.
- Hydrocarbons of petroleum vapors by partial condensation thereof, Separating constituent. H. C. Smart. No. 1,437,689; Dec. 5.
- Hydrocarbons, Oxidizing liquid. E. Zerner. No. 1,436,136; Nov. 21.
- Hydrocarbons, Producing aromatic. A. S. Ramage. No. 1,430,585; Oct. 3.
- Hydrocarbons, Producing light. C. R. Burke. No. 1,426,149; Aug. 15.
- Hydrocarbons, Production of halogenated. A. A. Backhaus. No. 1,402,337; Jan. 3.
- Hydrocarbons, Production of low-boiling-point. J. C. Black. No. 1,426,813; Aug. 22.
- Hydrocarbons, Refining liquid. A. E. Dunstan. No. 1,435,824; Nov. 14.
- Hydrocarbons, shale, etc., Apparatus for distilling heavy. W. D. P. Aims. No. 1,405,704; Feb. 7.
- Hydrocarbons, Sublimation of. W. B. Murphy and W. G. Dunning. No. 1,409,897; Mar. 14.
- Hydrocarbons to produce those of lower boiling points, Process and apparatus for treating. J. C. Black. No. 1,431,772; Oct. 10.
- Hydrocarbons, Treating. W. F. Rittman. No. 1,419,125; June 6.
- Hydrocarbons, Treatment of. G. F. Forwood. No. 1,440,286; Dec. 26.
- Hydrocarbons, Treatment of. W. F. Rittman. No. 1,419,122; June 6.
- Hydrochemical cleaner. B. McCarty. No. 1,421,971; July 4.
- Hydrochinon, Making. H. Von Bramer. No. 1,421,869; July 4.
- Hydrochlorite solutions, Manufacturing. C. F. Wallace and J. C. Baker. No. 1,403,993; Jan. 17.
- Hydrogen and hydrogen-nitrogen mixtures, Generating. J. C. Clancy. No. 1,425,579; Aug. 15.
- Hydrogen and nitrogen, Process to produce mixtures of. B. Szarvasy. No. 1,417,952; May 30.
- Hydrogen, Generating. H. S. Taylor. No. 1,411,760; Apr. 4.
- Hydrogen, Making. C. S. Palmer. No. 1,403,189; Jan. 10.
- Hydrogen, Manufacture of. E. B. Maxted. No. 1,438,387; Dec. 12.
- Hydrogen, Manufacture of compressed. G. Claude. No. 1,438,581; Dec. 12.
- Hydrogen, Preparing. J. C. Clancy. No. 1,425,578; Aug. 15.
- Hydrogen production. G. Claude. No. 1,426,462; Aug. 22.
- Hydrogen sulphide, Production of. H. Howard. No. 1,435,471; Nov. 14.
- Hydrogenating apparatus. W. B. Allbright. No. 1,404,709; Jan. 24.
- Hydrogenating catalyzer. G. Teichner. No. 1,427,037; Aug. 22.
- Hydrogenating process. W. B. Allbright. No. 1,404,708; Jan. 24.
- Hydrogenation and the preparation thereof, Catalyzer for. C. Ellis. No. 1,426,629; Aug. 22.
- Hydromed, hydroaeroplane, and the like. A. G. Bell, and F. W. Baldwin. Nos. 1,410,874-6; Mar. 28.
- Hydromed, hydroaeroplane, and the like. A. G. Bell, F. W. Baldwin, and S. S. Breese. No. 1,410,877; Mar. 28.
- Hydromagnesite, Means for calcining. C. E. Oliver. No. 1,436,520; Nov. 21.
- Hydrometer. W. E. Biebow. No. 1,405,094; Jan. 31.
- Hydrometer. B. L. Campbell. No. 1,406,342; Feb. 14.
- Hydrometer. L. P. Larose. No. 1,410,929; Mar. 28.
- Hydrometer. C. E. Linebarger. No. 1,424,730; Aug. 1.
- Hydrometer. J. O. Luthy. No. 1,424,108; July 23.
- Hydrometer. T. Midgeley, Jr. No. 1,412,884; Apr. 18.
- Hydrometer. T. Midgeley, Jr. No. 1,432,773; Oct. 24.
- Hydroplane. R. P. Erhard. No. 1,424,811; Aug. 8.
- Hydroplane. R. E. Ventress, sr. No. 1,436,552; Nov. 21.
- Hydrostatic jack. J. L. Harper. No. 1,409,441; Mar. 14.
- Hygrometer. J. Lynn. No. 1,435,247; Nov. 14.
- Hygrometric device. F. F. Bahnsen. No. 1,439,217; Dec. 19.
- Hyperdermic needles while sharpening the same, Device for holding. D. Crowther. No. 1,426,965; Aug. 22.
- Hypochlorite solutions, Electrolytic apparatus for preparing. D. M. Rogers and A. T. Masterman. No. 1,409,782; Mar. 14.
- Hypodermic needles, Adjustable and safety regulating device for. G. Gaschke. No. 1,436,707; Nov. 28.
- Ice anchor. J. P. Lacour. No. 1,429,210; Sept. 12.
- Ice and salt packing same in tubs, Machine for mixing. W. R. Myers. No. 1,404,135; Jan. 17.
- Ice and salt dispenser. W. R. Myers. No. 1,433,027; Oct. 24.
- Ice box. M. Gonzalez. No. 1,425,854; Aug. 15.
- Ice box. A. D. Sohmer. No. 1,436,324; Nov. 21.
- Ice box, Butcher's. E. Friedrich. No. 1,420,088; June 20.
- Ice boxes, Scale attachment for. H. J. Long. No. 1,409,872; Mar. 14.
- Ice boxes, Water-cooling attachment for. S. Kessler. No. 1,411,969; Apr. 4.
- Ice cakes, Apparatus for molding. W. Latham. No. 1,428,892; Sept. 12.
- Ice can. H. G. Tallerdar. No. 1,423,278; July 18.
- Ice-chest alarm. F. Fortier. No. 1,412,612; Apr. 11.
- Ice-chest construction. E. L. Condon. No. 1,413,576; Apr. 25.
- Ice chipper. C. S. Woods. No. 1,409,989; Mar. 21.
- Ice chipper, Scoop. C. W. Halsley. No. 1,435,061; Nov. 7.
- Ice conserver. G. L. Holland. No. 1,424,477; Aug. 1.
- Ice conveyer. L. F. Pixley. No. 1,423,732; July 25.
- Ice cracker. J. B. Zorn. No. 1,408,677; Mar. 7.
- Ice-cracking box. J. Sziget. No. 1,406,589; Feb. 14.
- Ice-cream base and making same. D. F. Hosman. No. 1,440,011; Dec. 26.
- Ice-cream-brick center punch. F. R. Carter, O. A. Otten, and J. C. Willard. No. 1,429,405; Sept. 19.
- Ice-cream-brick-cutting machine. W. R. Abraham. No. 1,436,001; Nov. 21.
- Ice-cream cabinet. P. Fritz. No. 1,435,286; Nov. 14.
- Ice-cream cabinet. C. J. Nilsson. No. 1,424,373; Aug. 1.
- Ice-cream-can holder. J. Goldsmith. No. 1,407,853; Feb. 28.
- Ice-cream-carton filler. P. D. Pearce and S. Vanden Hoek. No. 1,434,500; Nov. 7.
- Ice-cream-cone carrier. P. Brown. No. 1,427,440; Aug. 29.
- Ice-cream-cone machine. R. Miglietta. No. 1,418,195; May 30.
- Ice-cream-cone-molding mechanism. S. E. Winder. No. 1,413,369; Apr. 18.
- Ice-cream-cone protector. W. A. Chadwick. No. 1,436,754; Nov. 28.
- Ice-cream cones, Apparatus for the manufacture of. L. Lewison. (Reissue.) No. 15,327; Apr. 4.
- Ice-cream cones, Sanitary paper wrapper for. E. J. Hamer. No. 1,403,771; Jan. 17.
- Ice-cream container. R. K. Dent. No. 1,425,241; Aug. 8.
- Ice cream, Device for cutting. R. H. Schultz. No. 1,431,692; Oct. 10.
- Ice-cream dipper. J. M. Gibbs. No. 1,430,979; Oct. 3.
- Ice-cream-dispensing machine. W. J. Guerin. No. 1,422,198; July 11.
- Ice-cream freezer. C. A. Duren. No. 1,438,523; Dec. 12.
- Ice-cream freezer. W. S. Edmonds. No. 1,414,727; May 2.
- Ice-cream freezer. A. T. Light. No. 1,430,572; Oct. 3.
- Ice-cream freezer. E. Thompson. No. 1,407,044; Feb. 21.
- Ice-cream freezer. T. L. Valerius and O. Larsen. No. 1,425,814; Aug. 15.
- Ice-cream freezers and other appliances, Power unit for driving. C. U. Norcross. No. 1,418,962; June 6.
- Ice-cream freezers, Support for. F. D. Rugg. No. 1,421,724; July 4.
- Ice cream, Freezing. J. G. Peck. No. 1,408,774; Mar. 7.
- Ice cream, Machine for cutting brick. W. C. Walsh. No. 1,430,342; Sept. 26.
- Ice cream, Making. A. R. Sanna. Nos. 1,414,213-14; Apr. 25.
- Ice cream, Means for making. J. M. Long. No. 1,417,847; May 30.
- Ice-cream mix and making it. P. W. Turney. No. 1,424,603; Aug. 1.
- Ice-cream mix, Clarifying. A. R. Sanna. No. 1,414,215; Apr. 25.
- Ice-cream mix, Making. A. R. Sanna. No. 1,415,715; May 9.
- Ice-cream mix, Producing. P. W. Turney. No. 1,424,602; Aug. 1.
- Ice-cream overrun tester. W. J. McLaughlin. No. 1,416,730; May 23.
- Ice cream, Production of. L. H. P. Maynard. No. 1,415,669; May 9.
- Ice-cream remover. J. Priskey. No. 1,425,337; Aug. 8.
- Ice-cream-storage apparatus. C. A. Kulenkampf. No. 1,429,887; Sept. 19.
- Ice-cream tubs and making same, Reinforcement for. L. Roman. No. 1,432,123; Oct. 17.
- Ice creeper. H. Jubber. No. 1,408,516; Mar. 7.
- Ice creeper. R. Shoemaker. No. 1,440,182; Dec. 26.
- Ice creeper. G. M. Smith. No. 1,431,989; Oct. 17.
- Ice cutter. F. F. Zavatsky. No. 1,412,500; Apr. 11.
- Ice-delivery mechanism. W. R. Myers. No. 1,433,026; Oct. 24.
- Ice fishing indicator. H. and P. Larsen. No. 1,406,038; Feb. 7.
- Ice-holding device. W. D. Barton. No. 1,410,238; Mar. 21.
- Ice into snow, Device for transforming. J. Anderson. No. 1,428,829; Sept. 12.
- Ice-making apparatus. A. J. Bentley. Nos. 1,406,167-8; Feb. 14.
- Ice-making apparatus. A. J. Bentley. No. 1,427,935; Sept. 5.
- Ice-making apparatus. A. C. Davis. No. 1,414,330; Apr. 25.

Alphabetical list of inventions—Continued.

- Ice-making apparatus. M. B. Hill. No. 1,426,640; Aug. 22.
- Ice manufacture. R. Ellis. No. 1,415,325; May 9.
- Ice-marking machine. R. M. Penning. No. 1,406,999; Feb. 21.
- Ice-men, Protector for. A. F. Kleiminger. No. 1,414,136; Apr. 25.
- Ice, Method and apparatus for scoring. M. J. Uline. No. 1,420,788; June 27.
- Ice pan. M. A. Wicks. No. 1,407,614; Feb. 21.
- Ice-pan signal. G. H. Bouekemper. No. 1,409,818; Mar. 14.
- Ice pick. H. E. Keeler. No. 1,437,425; Dec. 5.
- Ice pick. R. E. McGahey. No. 1,435,866; Nov. 14.
- Ice pick. J. A. McWilliams. No. 1,415,887; May 16.
- Ice pick. G. Trumpeter. No. 1,424,221; Aug. 1.
- Ice scraper. W. S. Van Sant. No. 1,431,344; Oct. 10.
- Ice-shaving machine. A. Horwitz. No. 1,432,186; Oct. 17.
- Ice-shaving machine. H. M. Jerome. No. 1,426,742; Aug. 22.
- Ice tongs. E. Reed. No. 1,413,358; Apr. 18.
- Icing machine. P. R. Janney. No. 1,418,715; June 6.
- Identification and coding system. J. F. Gelnaw. No. 1,423,763; July 25.
- Identification device. H. F. Waite. No. 1,438,508; Dec. 12.
- Identification holder. C. E. Ziegler. No. 1,427,891; Sept. 5.
- Identification means. J. C. Reeves. No. 1,410,598; Mar. 28.
- Igniter. L. V. Aronson. No. 1,436,635; Nov. 28.
- Igniter, Flash. F. A. Gauger and R. W. Johnson. No. 1,417,501; May 30.
- Igniter for cigars, Electric. M. Garl. No. 1,410,176; Mar. 21.
- Igniter for internal-combustion engines. R. Soyer. No. 1,409,887; Mar. 14.
- Igniter, Making friction. K. Arnold. No. 1,404,261; Jan. 24.
- Igniter trip mechanism. A. R. Baker. No. 1,419,711; June 13.
- Igniter, Vulcanizer. H. A. Sheetz, jr. No. 1,428,862; Sept. 12.
- Igniting apparatus. C. E. Pearson. No. 1,420,340; June 20.
- Ignition and lighting switch. L. D. Kellogg. No. 1,421,493; July 4.
- Ignition and propulsion tube. C. A. Braunger. No. 1,440,334; Dec. 26.
- Ignition apparatus. F. F. Dorsey. No. 1,405,979; Feb. 7.
- Ignition apparatus. E. Schroedter. No. 1,411,587; Apr. 4.
- Ignition apparatus. L. M. Wolffsohn. No. 1,430,870; Oct. 3.
- Ignition apparatus. L. M. Woolson. No. 1,430,873; Oct. 3.
- Ignition apparatus, Distributor for. F. Conrad. No. 1,417,717; May 30.
- Ignition apparatus, Driving attachment for. W. F. Schwarzmann and C. H. Alvord. No. 1,414,753; May 2.
- Ignition apparatus, Electric. F. Billon. No. 1,428,134; Sept. 5.
- Ignition apparatus, Electric. L. W. Rosenthal and G. J. Lang. No. 1,431,261; Oct. 10.
- Ignition contact points, Facing device for. H. O. Bucey. No. 1,402,046; Jan. 3.
- Ignition-control apparatus. A. A. Kent. No. 1,407,284; Feb. 21.
- Ignition-control apparatus. A. A. Kent. No. 1,407,466; Feb. 21.
- Ignition cut-out. A. Mayer. No. 1,438,388; Dec. 12.
- Ignition device. G. R. Wright. No. 1,411,703; Apr. 4.
- Ignition device, Make-and-break. M. Murray. No. 1,423,137; July 18.
- Ignition generators, Driving mechanism for. J. L. Milton. No. 1,412,414; Apr. 11.
- Ignition machine, Electrical. K. H. Mörck. No. 1,412,792; Apr. 11.
- Ignition magneto. J. R. Stark. No. 1,407,099; Feb. 21.
- Ignition magnetos, Automatic spark control and timing coupling for. H. O. Putt. No. 1,427,847; Sept. 5.
- Ignition plug. A. Ruprecht. No. 1,412,751; Apr. 11.
- Ignition plug, Externally-heatable. A. Peter. No. 1,417,766; May 30.
- Ignition plugs, Spark intensifier for. H. E. Murray. No. 1,406,480; Feb. 14.
- Ignition-point-grinding device. J. Thomas. No. 1,429,801; Sept. 19.
- Ignition starting and lighting, Instrument for generating electric currents for. K. F. Ries. No. 1,411,643; Apr. 4.
- Ignition switch. D. B. Beavers. No. 1,405,260; Jan. 31.
- Ignition system. H. T. Duket. No. 1,416,802; May 23.
- Ignition system. V. A. Fynn. No. 1,425,001; Aug. 8.
- Ignition system. J. H. Hunt. No. 1,406,190; Feb. 14.
- Ignition system. J. H. Hunt. No. 1,426,873; Aug. 22.
- Ignition system. J. H. Hunt. No. 1,428,635; Sept. 12.
- Ignition system. C. F. Kettering. No. 1,435,966; Nov. 21.
- Ignition system. W. O. Pennington. (Reissue.) No. 15,408; July 11.
- Ignition systems, Automatic flux control for. H. H. Gordon. No. 1,412,933; Apr. 18.
- Ignition systems, Circuit controller for. J. H. Lehman. No. 1,415,370; May 9.
- Ignition systems, Circuit controller for. J. H. Stearns. No. 1,404,328; Jan. 24.
- Ignition systems, Distributor for. P. N. Scott. No. 1,418,836; June 6.
- Ignition systems, Interrupter for. W. W. Dean. No. 1,413,905; Apr. 25.
- Ignition tester, spark intensifier, and grounding device, Combination. O. R. Nordgren. No. 1,432,118; Oct. 17.
- Ignition timer. W. H. Hutchins. No. 1,432,337; Oct. 17.
- Illuminated signal. C. A. Christofferson. No. 1,422,669; July 11.
- Illuminated tool. C. L. Cotharin. No. 1,439,404; Dec. 19.
- Illuminating and projection apparatus. E. D. Tillyer. No. 1,434,268; Oct. 31.
- Illuminating apparatus. F. D. Collins. No. 1,412,675; Apr. 11.
- Illuminating apparatus. E. A. Hawthorne. No. 1,402,353; Jan. 3.
- Illuminating apparatus. J. A. Lockwood. No. 1,421,509; July 4.
- Illuminating apparatus. C. H. Wheeler. No. 1,434,862; Nov. 7.
- Illuminating appliance. W. A. Dorey. No. 1,420,977; June 27.
- Illuminating device. C. A. B. Halvorson, jr. No. 1,436,655; Nov. 28.
- Illuminating device. L. F. Verain. No. 1,403,139; Jan. 10.
- Illuminating means, Aisle. L. Roth. No. 1,420,059; June 20.
- Illuminating mechanism. D. W. Schaeffer. No. 1,421,838; July 4.
- Illuminating system for vehicles. S. V. Gramlich. No. 1,426,060; Aug. 15.
- Ilusionary box. D. E. Hamburger. No. 1,430,643; Oct. 3.
- Illustrating installations of mercantile equipment. W. T. Hormes. No. 1,404,613; Jan. 24.
- Illustration. R. M. Sutphen. No. 1,407,498; Feb. 21.
- Image and making the same, Bleached and colored. W. V. D. Kelley. No. 1,411,968; Apr. 4.
- Image effects, Device for producing multiple. L. F. Douglass. No. 1,410,557; Mar. 28.
- Immersion heater. J. F. McCloskey. No. 1,438,121; Dec. 5.
- Immersion heater, Electric. D. H. Clark. No. 1,413,322; Apr. 18.
- Impact-producing implement. N. Epstein. No. 1,403,753; Jan. 17.
- Impaling pin, Consecutive-order. F. T. Loftin. No. 1,420,717; June 27.
- Impedance bond. H. A. Anderson and H. R. Smith. No. 1,439,680; Dec. 26.
- Impeller. M. J. Nusim. Nos. 1,437,609-10; Dec. 5.
- Implement, Combination. J. Senio. No. 1,433,659; Oct. 31.
- Implement, Hand. B. Himelfarb. No. 1,427,898; Sept. 5.
- Implement holder. N. J. Lahr. No. 1,404,866; Jan. 31.
- Implement, Holding. H. T. Inghram. No. 1,420,925; June 27.
- Implement-raising and depth-regulating mechanism. E. Moss. No. 1,406,273; Feb. 14.
- Impregnating and coating composition and preparing same. E. T. Oakes. No. 1,411,371; Apr. 4.
- Impregnating material, Method of and apparatus for. L. L. Frederick. No. 1,414,462; May 2.
- Impressing machine. M. O. Rehffuss. No. 1,432,568; Oct. 17.
- Impulse-correcting repeater. H. B. Brown. No. 1,435,206; Nov. 14.
- Impulse sender. G. Thompson. No. 1,432,925; Oct. 24.
- Impulse-starter coupling. A. Erickson. No. 1,411,080; Mar. 28.
- Inaccessible point, Process and apparatus for determining the position of an. E. J. A. Schultz. No. 1,428,861; Sept. 12.
- Incandescent lighting, Process and apparatus for the manufacture of incandescent mantles for inverted. L. Severin. No. 1,411,459; Apr. 4.
- Incense burner. S. C. Ghosh. No. 1,412,516; Apr. 11.
- Incense burner and perfumer. L. Weidlich and A. J. Flauder. No. 1,421,633; July 4.
- Incense sticks, Machine for making. L. Lucas. No. 1,438,446; Dec. 12.
- Incinerating furnace. I. Helseth. No. 1,403,243; Jan. 10.
- Incinerator. A. H. Heimbach. No. 1,435,297; Nov. 14.
- Incinerator. E. M. Jones. No. 1,402,233; Jan. 3.
- Incinerator. W. Fetzler, J. G. Freres, and O. A. Elliott. No. 1,404,749; Jan. 31.
- Incinerator. P. F. McMahon. No. 1,439,675; Dec. 19.
- Incinerator, Portable. C. W. Eshelman. No. 1,440,141; Dec. 26.
- Inclinometer. H. C. Hornbeck. No. 1,426,645; Aug. 22.
- Inclosure, Sectional. G. C. Kennedy. No. 1,406,192; Feb. 14.
- Incubating, Apparatus for. C. M. Heck. No. 1,424,821; Aug. 8.
- Incubation, Eggs. E. B. De La Rue. No. 1,433,262; Oct. 24.
- Incubator. F. Baba. No. 1,413,887; Apr. 25.

- Incubator. L. A. Brown. No. 1,414,858; May 2.
 Incubator. V. C. Getz. No. 1,421,075; June 27.
 Incubator. F. Giommi. No. 1,434,286; Oct. 31.
 Incubator. M. T. Glaeser. No. 1,420,092; June 20.
 Incubator. S. A. Keller. No. 1,410,065; Mar. 21.
 Incubator. A. T. Pope. No. 1,407,671; Feb. 21.
 Incubator. W. W. Smith. No. 1,428,813; Sept. 12.
 Incubator. A. C. Thériault. No. 1,415,732; May 9.
 Incubator, Automatic electric. W. J. Anderson. No. 1,406,164; Feb. 14.
 Incubator, Bacteriological. W. O. Frohring and J. J. Mojonner. No. 1,432,176; Oct. 17.
 Incubator egg tray. W. L. Morse. No. 1,417,550; May 30.
 Incubator heaters, Boiler for. D. M. Holbrook. No. 1,417,522; May 30.
 Incubator tray. A. G. Markisen. No. 1,432,115; Oct. 17.
 Incubator tray. J. Kovak. No. 1,412,659; Apr. 11.
 Incubators and brooders, Tray for. C. B. Wilson. No. 1,436,744; Nov. 28.
 Incubators, brooders, and the like, Heating system for. H. M. Sheer. Nos. 1,432,574-6; Oct. 17.
 Incubators, brooders, waterers, and the like, Heat-insulator structure for. E. J. Raymond. No. 1,436,458; Nov. 21.
 Incubators, Heater for. J. W. Osborne. No. 1,412,704; Apr. 11.
 Incubators, Heating element for. R. P. Rhodes. No. 1,408,308; Feb. 28.
 Index. S. Anthony. No. 1,419,194; June 13.
 Index. C. M. Cott. No. 1,437,168; Nov. 28.
 Index. G. C. Parsons. No. 1,404,541; Jan. 24.
 Index. J. H. Rand. Nos. 1,418,466-7; June 6.
 Index. R. C. Russell. Nos. 1,435,663-4; Nov. 14.
 Index. L. A. Wernery. No. 1,440,119; Dec. 26.
 Index book for filing systems. C. F. McBee. No. 1,418,315; June 6.
 Index cards, Sheath for. J. H. Rand. No. 1,432,036; Oct. 17.
 Index cases, Follower block for card. L. Hoffman. No. 1,415,035; May 9.
 Index. Cross-reference-catalogue. H. Paulson. No. 1,403,622; Jan. 17.
 Index element. J. H. Rand. No. 1,428,298; Sept. 5.
 Index guide. C. W. Phalen. No. 1,437,773; Dec. 5.
 Index or display device. J. H. Rand, jr. No. 1,435,081; Nov. 7.
 Index or file. C. S. Campbell and W. H. Day. No. 1,421,670; July 4.
 Index, Rotary. E. R. Smith. No. 1,414,754; May 2.
 Index tab. C. F. Brenne. No. 1,424,338; Aug. 1.
 Index tab. J. H. Rand. No. 1,427,549; Aug. 29.
 Index tab. R. J. Turner. No. 1,416,529; May 16.
 Indexed handle or handwheel. K. O. Pfeiffer. No. 1,402,013; Jan. 3.
 Indexing means, Mechanical. J. E. Mack. No. 1,410,941; Mar. 28.
 Indexing mechanism. A. L. Stewart and E. C. Head. No. 1,404,243; Jan. 24.
 Indexing mechanism. G. D. Sundstrand. No. 1,425,716; Aug. 15.
 Indicating and recording apparatus. A. C. Johnson. No. 1,422,207; July 11.
 Indicating apparatus. C. B. Lord. No. 1,417,928; May 30.
 Indicating device. S. E. Bradley. No. 1,402,395; Jan. 3.
 Indicating device. R. F. MacMichael. No. 1,406,200; Feb. 14.
 Indicating device, Electric. F. Hülss. No. 1,433,078; Oct. 24.
 Indicating devices, Circuit closer for. T. E. Wallis. No. 1,402,696; Jan. 3.
 Indicating gauge. B. L. Gates. No. 1,425,193; Aug. 8.
 Indicating gauge. O. Schlaupitz. No. 1,432,212; Oct. 17.
 Indicating gauge. O. Schlaupitz. No. 1,435,666; Nov. 14.
 Indicating instrument. W. D. Dreiske. No. 1,428,363; Sept. 5.
 Indicating mechanism. E. E. Kleinschmidt. No. 1,419,146; June 13.
 Indicating system, Electrical. W. A. Lurie. No. 1,416,435; May 16.
 Indicating the deviations of a borehole from the vertical, Apparatus for. J. Choppinet, G. Gillon, and V. Defays. No. 1,404,580; Jan. 24.
 Indicator. *See—*
 Aeronautical balance indicator.
 Air-distance indicator.
 Automobile direction indicator.
 Automobile indicator.
 Automobile theft indicator.
 Automobile time indicator.
 Baling-press indicator.
 Center and surface testing indicator.
 Deflection indicator.
 Direction indicator.
 Egg-laying indicator.
 Electric liquid-level indicator.
 Electrical indicator.
 Fire indicator.
 Gasoline-tank indicator.
 Gear indicator.
 Headlight indicator.
 Ice fishing indicator.
 Liquid-level indicator.
 Locomotive cut-off indicator.
 Meter indicator.
 Motor direction indicator.
 Oil-level indicator.
 Piezo-electrical voltage indicator.
 Position indicator.
 Pressure indicator.
 Railway station indicator.
 Railway-track indicator.
 Road indicator.
 Rotary speed indicator.
 Shock indicator.
 Speed indicator.
 Station indicator.
 Street and station indicator.
 Street indicator.
 Surface-test indicator.
 Tack indicator.
 Temperature indicator.
 Test indicator.
 Thermostatic indicator.
 Time indicator.
 Tire indicator.
 Traffic indicator.
 Turn indicator.
 Universal test indicator.
 Vacuum-feed indicator.
 Valve-leak indicator.
 Vehicle direction indicator.
 Vending-machine indicator.
 Water-level indicator.
 Weight indicator.
 X-ray angle indicator.
 Indicator. A. M. Deutsch and W. V. Dupre. No. 1,402,220; Jan. 3.
 Indicator. O. E. Grosbell. No. 1,432,460; Oct. 17.
 Indicator. H. J. Krebs. No. 1,424,310; Aug. 1.
 Indicator. J. Lewis and S. Davies. No. 1,416,847; May 23.
 Indicator. J. C. Montero. No. 1,414,298; Apr. 25.
 Indicator gauge, Reliable adjustable inside. W. Wittner. No. 1,431,615; Oct. 10.
 Indicator hand. S. N. Hurt. No. 1,409,299; Mar. 14.
 Indicator lock. L. J. Corbitt. No. 1,421,411; July 4.
 Indicator, Turn. L. B. Sperry. No. 1,433,102; Oct. 24.
 Indigos, Making brominated. C. J. Strosacker and H. J. Rupright. No. 1,431,606; Oct. 10.
 Inductance. L. F. Bird. No. 1,439,995; Dec. 26.
 Inductance device. H. J. Power. No. 1,429,453; Sept. 19.
 Induction apparatus, Stationary. W. O. Dwyer. No. 1,412,782; Apr. 11.
 Induction apparatus, Stationary. J. S. Lennox. No. 1,436,968; Nov. 28.
 Induction furnace. J. L. Brown. No. 1,402,832; Jan. 10.
 Induction furnace. W. Rohn. No. 1,431,686; Oct. 10.
 Induction heater. M. Unger. No. 1,431,997; Oct. 17.
 Induction machines, System of speed control for. R. E. Hellmund. No. 1,425,652; Aug. 15.
 Induction motors, Starting. J. Bruncken. No. 1,437,886; Dec. 5.
 Inductive-interference-suppression device. H. S. Osborne. No. 1,422,470; July 11.
 Industrial establishments, Automatic signaling system for. W. L. Jacoby and R. M. Hopkins. No. 1,432,600; Oct. 17.
 Inflammable and other liquids within tanks and piping out of contact with the air, Safety apparatus for the storage and distribution of. P. A. P. V. Maucière. No. 1,419,880; June 13.
 Inflating coupling. E. C. Bevins. No. 1,416,781; May 23.
 Inflating gauge. R. W. Zimmerman. No. 1,436,000; Nov. 21.
 Inflation mechanism. E. L. Fuller. No. 1,419,038; June 6.
 Ingot. B. P. Hazeltine. No. 1,417,246; May 23.
 Ingot mold. L. R. Custer. No. 1,409,084; Mar. 7.
 Ingot mold. E. Gathmann. No. 1,419,454; June 13.
 Ingot mold. S. E. Hitt and J. I. Peyton. No. 1,422,572; July 11.
 Ingot mold and feeder. B. H. Howard and E. J. Turner. No. 1,431,804; Oct. 10.
 Ingot mold, Hot-top. J. I. Peyton and S. E. Hitt. No. 1,429,251; Sept. 19.
 Ingot molds, Feeder for. B. H. Howard and E. J. Turner. No. 1,431,803; Oct. 10.
 Ingot molds, Feeder for. E. J. Turner and B. H. Howard. No. 1,431,853; Oct. 10.
 Ingots, Apparatus for casting. G. Beatty. No. 1,414,394; May 2.
 Ingots, Making. G. E. Thackray. No. 1,409,040; Mar. 7.
 Ingots, Means for casting. A. MacMichael and C. Schink. No. 1,417,269; May 23.
 Inhaler. F. C. Dörment. No. 1,410,556; Mar. 28.
 Inhaler. B. C. Tabor. No. 1,418,182; May 30.
 Inhaling device. R. Palmer. No. 1,431,177; Oct. 10.
 Inhaling device for use in the treatment of asthmatic, catarrhal, and other affections. A. P. Stokes. No. 1,429,545; Sept. 19.
 Injector. E. Blauhorn. No. 1,406,145; Feb. 7.
 Ink. B. Dates. No. 1,404,345; Jan. 24.
 Ink. A. B. Dick and E. W. Hill. No. 1,439,356; Dec. 19.
 Ink. H. W. Doughty. Nos. 1,439,695-6; Dec. 26.
 Ink. E. E. Schmidt. No. 1,420,289; June 20.
 Ink and making same. E. S. Garvey. No. 1,422,957; July 18.
 Ink-bottle holder. W. B. McConnell. No. 1,417,081; May 23.
 Ink composition. J. W. Balser. No. 1,439,658; Dec. 19.
 Ink, Copying. M. Shinozaki. No. 1,439,489; Dec. 19.
 Ink-distributing mechanism. E. T. Waters. No. 1,427,988; Sept. 5.
 Ink-distributing mechanism, Continuous. H. A. W. Wood. No. 1,419,189; June 13.
 Ink distributor. H. H. Kreiling. No. 1,429,148; Sept. 12.
 Ink distributor. W. J. Ramsaier. No. 1,415,480; May 9.
 Ink-fountain-drive mechanism. L. R. Barber. No. 1,412,766; Apr. 11.
 Ink-fountain partition. C. P. Klorer. No. 1,433,954; Oct. 31.
 Ink fountains, Page cut-off device for. H. A. W. Wood. No. 1,422,017; July 4.
 Ink from printed paper, Removing. H. R. Eyrich and J. A. Schreiber. No. 1,421,195; June 27.

Alphabetical list of inventions—Continued.

- Ink, Invisible. C. F. Morse. No. 1,423,346; July 18.
 Ink pad and making the same. R. H. Kee. No. 1,429,354; Sept. 19.
 Ink, Printing. W. W. Evans and B. Dales. No. 1,404,355; Jan. 24.
 Ink, Printing. K. Ishida. No. 1,410,572; Mar. 28.
 Ink, Printing or lithographing. H. N. Holmes and D. H. Cameron. No. 1,410,012; Mar. 21.
 Ink, Printing process. G. W. Brenizer and C. C. Hutson. No. 1,436,856; Nov. 28.
 Inking, coating, and impregnating machine. L. M. and H. W. A. Dixon. No. 1,404,589; Jan. 24.
 Inking mechanism. C. L. Post. No. 1,437,444; Dec. 5.
 Inking rollers, Apparatus for forming. L. La Tour and A. F. Munnell. No. 1,420,849; June 27.
 Inks, Antismearing composition for printing. L. L. Farkas. No. 1,439,623; Dec. 19.
 Inks, Solvent for printer's. H. G. Ghegan. No. 1,406,183; Feb. 14.
 Inkstand. E. Salzmann. No. 1,424,216; Aug. 1.
 Inkstand, Blotting. J. G. Schwartz. No. 1,405,558; Feb. 7.
 Inkwell. J. Bachrach. No. 1,404,681; Jan. 24.
 Inkwell. E. H. Oakman. No. 1,416,862; May 28.
 Inlaid work, Producing. J. Kaufman. No. 1,416,212; May 16.
 Innersole. A. T. Berry. No. 1,412,603; Apr. 11.
 Innersoles, Machine for making reinforced. T. F. Hart. No. 1,412,521; Apr. 11.
 Inner tube. F. E. Bessler. Nos. 1,419,442-3; June 13.
 Inner tube. F. E. Bessler. No. 1,439,221; Dec. 19.
 Inner tube. H. M. Dodge. No. 1,414,331; Apr. 25.
 Inner tube. B. G. Goble. No. 1,424,162; Aug. 1.
 Inner tube. J. B. Mundell. No. 1,438,256; Dec. 12.
 Inner tube. J. H. Talor. No. 1,427,036; Aug. 22.
 Inner-tube cover. E. J. Rudolph. No. 1,406,086; Feb. 7.
 Inner tube, Multiple-cell. R. R. Mundell. No. 1,438,257; Dec. 12.
 Inner-tube protector. W. C. Guild. No. 1,420,655; June 27.
 Inner-tube-stripping post. W. H. Perrine. No. 1,419,752; June 13.
 Inner-tube tester. E. Knott. No. 1,416,649; May 16.
 Insect catcher. A. Bridgen. Nos. 1,414,068-9; Apr. 25.
 Insect catcher and destroyer. F. Pfeiffer, Sr. No. 1,411,931; Apr. 4.
 Insect destroyer. J. L. Franks. No. 1,419,900; June 13.
 Insect destroyer. J. P. Owens. No. 1,435,656; Nov. 14.
 Insect destroyer. O. Rannefeld. No. 1,402,960; Jan. 10.
 Insect destroyer. D. D. Smith. No. 1,433,856; Oct. 31.
 Insect exterminator. P. B. Clausen. No. 1,427,723; Aug. 29.
 Insect exterminator. J. T. Fuller. No. 1,433,885; Oct. 31.
 Insect exterminator. P. E. Hebert. No. 1,436,958; Nov. 28.
 Insect exterminator. M. W. Rogers. No. 1,405,334; Jan. 31.
 Insect, Ornamental. J. Messenger. No. 1,408,017; Feb. 28.
 Insect swatter. H. E. Little. No. 1,412,312; Apr. 11.
 Insect trap. J. P. Dillin. No. 1,439,874; Dec. 26.
 Insect trap. A. S. Erickson. No. 1,405,822; Feb. 7.
 Insect trap. C. T. Harned. No. 1,410,298; Mar. 21.
 Insect trap. S. Kesling. No. 1,437,251; Nov. 28.
 Insecticidal fumigator. H. L. Schulz. No. 1,412,065; Apr. 11.
 Insecticide. N. E. Morgan. No. 1,405,856; Feb. 7.
 Insecticide. M. L. Tower. No. 1,416,526; May 16.
 Insecticide and making same. H. H. Dow. No. 1,420,978; June 27.
 Insecticides, Making. H. H. Dow. No. 1,417,232; May 23.
 Insecticides, Making arsenate. W. H. Swenarton. No. 1,418,848; June 6.
 Insert, Self-aligned. W. W. White. No. 1,405,372; Jan. 31.
 Insert tab. A. J. Macy. No. 1,433,636; Oct. 31.
 Inserting, folding, and wrapping machine. W. P. Dun Lany. No. 1,407,646; Feb. 21.
 Inside gauge. M. Bartholdy. No. 1,429,556; Sept. 19.
 Insole. L. E. Topham. No. 1,421,619; July 4.
 Insole, Adjustable. H. C. George. No. 1,418,250; May 30.
 Insole-heel-seat-trimming machine. T. Lund. No. 1,431,967; Oct. 17.
 Insole reinforcing and trimming machine. F. Fix. No. 1,404,356; Jan. 24.
 Insole-rounding machine. C. C. Blake. No. 1,430,210; Sept. 26.
 Insole, Wooden. H. L. Haskell. No. 1,411,021; Mar. 28.
 Inspecting material, Method and apparatus for. R. A. Fessenden. No. 1,414,077; Apr. 25.
 Inspirators, Capacity block for. T. M. Stewart. No. 1,434,927; Nov. 7.
 Instrument board. C. E. Jeffers. No. 1,407,751; Feb. 28.
 Instrument for holding appliances while heated. R. W. Strang. No. 1,415,414; May 9.
 Instrument panel. E. N. Jacobi. No. 1,437,660; Dec. 5.
 Insulated fastening, Making. B. G. Jansson. No. 1,435,069; Nov. 7.
 Insulated receptacle, Heat. L. V. Blair. No. 1,435,199; Nov. 14.
 Insulated receptacle, Heat. H. M. Smith. No. 1,431,189; Oct. 10.
 Insulated wire, Making. W. E. Cook. Nos. 1,415,151-6; May 9.
 Insulating and brine and waterproof material, Making. J. P. Elliott. No. 1,406,174; Feb. 14.
 Insulating and resistant articles and products thereof, Manufacturing. F. T. Lahey. No. 1,422,720; July 11.
 Insulating and resisting material, Heat. E. T. Holmberg. No. 1,404,438; Jan. 24.
 Insulating bases, Support for. J. C. Regan. No. 1,410,035; Mar. 21.
 Insulating composition. J. Najarian. No. 1,427,621; Aug. 29.
 Insulating composition. R. R. Williams. No. 1,415,076; May 9.
 Insulating construction. C. B. Lawton. No. 1,413,169; Apr. 18.
 Insulating container and the like. W. L. Wright. No. 1,421,649; July 4.
 Insulating covering for pipes. C. Read. No. 1,419,171; June 13.
 Insulating flat-wire conductors. J. A. Heany. No. 1,426,065; Aug. 15.
 Insulating head. F. A. Tibbals. No. 1,411,676; Apr. 4.
 Insulating material. F. Salathe, Jr. No. 1,427,230; Aug. 29.
 Insulating material and making same. R. E. Ottman. No. 1,418,730; June 6.
 Insulating material and manufacturing the same. F. C. Emrick. No. 1,426,163; Aug. 15.
 Insulating material, Ceramic. J. A. Jeffery. No. 1,438,598; Dec. 12.
 Insulating material, Forming. J. A. Van Der Nolle. No. 1,403,822; Jan. 17.
 Insulating material, Treating peat for manufacturing an. R. Graeffe. No. 1,429,503; Sept. 19.
 Insulating objects, Process for producing electrical. A. Sidler. No. 1,430,266; Sept. 26.
 Insulating screen or curtain. F. C. Fuller. (Reissue.) No. 15,273; Jan. 24.
 Insulating substance. H. S. Ashenhurst. No. 1,402,133; Jan. 3.
 Insulating tube. W. Hier. No. 1,431,798; Oct. 10.
 Insulation and like structures, Apparatus for building up laminate. C. W. Davis and W. S. Brown. No. 1,420,911; June 27.
 Insulation and making same. W. H. Kempton. No. 1,416,036; May 16.
 Insulation and making same, Molded. W. H. Kempton. No. 1,431,962; Oct. 17.
 Insulation for rail joints, Sectional. C. A. Disbrow. No. 1,429,934; Sept. 26.
 Insulation, Furnace-base. C. R. Kline. No. 1,428,548; Sept. 12.
 Insulation in liquid form to wire, Machine for applying. M. D. Shiverick. No. 1,432,795; Oct. 24.
 Insulation mounting. L. F. Bird. No. 1,439,997; Dec. 26.
 Insulation of hollow cables and product thereof, Filling the. H. W. Fisher and R. W. Atkinson. No. 1,418,369; June 6.
 Insulation, Pliers for cutting. H. Perlman. No. 1,406,486; Feb. 14.
 Insulation-testing device. J. A. Heany. No. 1,407,693; Feb. 28.
 Insulation testing, Method of and apparatus for. C. L. Kasson and T. H. Haines. No. 1,407,069; Feb. 21.
 Insulation, Transparent. E. J. Pegler. No. 1,428,056; Sept. 5.
 Insulator. G. I. Gilchrist. No. 1,435,225; Nov. 14.
 Insulator. W. T. Goddard. No. 1,426,981; Aug. 22.
 Insulator. H. D. Seavey. No. 1,429,110; Sept. 12.
 Insulator. L. Steinberger. No. 1,403,717; Jan. 17.
 Insulator. L. Steinberger. No. 1,426,516; Aug. 22.
 Insulator. L. Steinberger. No. 1,426,789; Aug. 22.
 Insulator. N. J. A. Wahlberg. No. 1,404,814; Jan. 31.
 Insulator and switch, Section. H. E. Conrad. No. 1,437,961; Dec. 5.
 Insulator, Cementless strain. F. J. Stevens. No. 1,412,759; Apr. 11.
 Insulator changers, Pole grab for. T. F. Johnson, Jr. No. 1,432,561; Oct. 17.
 Insulator, Condenser cemented sectional. S. S. Sonneborn. No. 1,426,421; Aug. 22.
 Insulator, Heat. H. Mock. No. 1,433,088; Oct. 24.
 Insulator, Oil-seal. G. R. Lewers. No. 1,429,914; Sept. 19.
 Insulator, Sectional. S. S. Matthes. No. 1,405,608; Feb. 7.
 Insulator, Sectional. S. S. Matthes. No. 1,410,700; Mar. 28.
 Insulator, Self-cooling strain. L. Steinberger. Nos. 1,406,696-7; Feb. 14.
 Insulator, Spark-plug. T. G. McDougal. No. 1,434,133; Oct. 31.
 Insulator, Splice and sectional. Z. Grass. No. 1,420,541; June 20.
 Insulator, Split. C. W. Kettron. No. 1,429,079; Sept. 12.
 Insulator, Storage-battery. F. J. Erickson. No. 1,439,155; Dec. 19.
 Insulator, Strain. W. T. Goddard. No. 1,406,953; Feb. 14.
 Insulator, Strain. L. Steinberger. No. 1,406,698; Feb. 14.
 Insulator strain member. L. Steinberger. No. 1,426,788; Aug. 22.
 Insulator support. H. O. Rockwell. No. 1,439,840; Dec. 26.
 Insulator-supporting mechanism. E. O. Sessions. No. 1,434,565; Nov. 7.

- Insulators, Connecting the parts of line. A. F. E. Bültemann. No. 1,440,003; Dec. 26.
- Intake and exhaust manifold, Combined. E. W. Graef. No. 1,428,841; Sept. 12.
- Intake burner apparatus. J. Good. No. 1,431,910; Oct. 10.
- Intake manifold. G. H. Peterson. No. 1,402,886; Jan. 10.
- Integrating devices, Correction mechanism for. E. Meitner. No. 1,415,601; May 9.
- Integrating variable quantities as regards the time, Apparatus for. H. A. Witt. No. 1,432,375; Oct. 17.
- Integration calculations, Integrating apparatus for graphic. L. Sparr. No. 1,416,519; May 16.
- Intercommunicating system. L. D. Barrows. No. 1,410,545; Mar. 28.
- Interest computer. O. Krems. No. 1,426,484; Aug. 22.
- Interference, Means and method of avoiding. H. S. Osborne. No. 1,432,781; Oct. 24.
- Interfolding machine. P. J. Christman, jr. No. 1,440,133; Dec. 26.
- Interlacing machines, Feed-roll gearing for. D. Strand. No. 1,404,245; Jan. 24.
- Interlocking relay. F. E. Lull. No. 1,439,905; Dec. 26.
- Intermittent-feeding mechanism. M. J. Vinik. No. 1,428,927; Sept. 12.
- Intermittent-grip device. S. S. Morton. No. 1,423,007; July 18.
- Intermittent mechanism. P. J. Messer. No. 1,435,319; Nov. 14.
- Intermittent-operating mechanism. G. A. Shaffer. No. 1,437,779; Dec. 5.
- Intermittently-operating apparatus. E. E. Littlefield. No. 1,404,155; Jan. 17.
- Internal-circumference gauge. R. H. Parker. No. 1,436,355; Nov. 21.
- Internal-combustion and hot-air engine. A. Bagnulo. No. 1,423,705; July 25.
- Internal-combustion engine. J. O. Almen. No. 1,411,556; Apr. 4.
- Internal-combustion engine. J. O. Almen. (Reissue.) No. 15,442; Sept. 5.
- Internal-combustion engine. J. O. Almen. No. 1,430,275; Sept. 26.
- Internal-combustion engine. W. D. Appel. No. 1,422,810; July 18.
- Internal-combustion engine. D. L. Arnold. No. 1,433,060; Oct. 24.
- Internal-combustion engine. S. B. Arnold. No. 1,438,937; Dec. 19.
- Internal-combustion engine. L. Atwood. No. 1,418,351; June 6.
- Internal-combustion engine. L. Atwood. No. 1,438,887; Dec. 12.
- Internal-combustion engine. G. L. Badger. No. 1,413,213; Apr. 18.
- Internal-combustion engine. C. G. Barrett. No. 1,415,858; May 16.
- Internal-combustion engine. E. V. Beals. No. 1,434,801; Nov. 7.
- Internal-combustion engine. A. W. Beauchamp and E. C. Davidson. No. 1,428,412; Sept. 5.
- Internal-combustion engine. E. L. Beecher. No. 1,405,093; Jan. 31.
- Internal-combustion engine. W. H. Bennett. No. 1,413,567; Apr. 25.
- Internal-combustion engine. C. E. Berg. No. 1,417,133; May 23.
- Internal-combustion engine. F. H. Berger. No. 1,412,266; Apr. 11.
- Internal-combustion engine. F. Birchbauer. No. 1,423,477; July 18.
- Internal-combustion engine. A. J. Bohman. No. 1,420,236; June 20.
- Internal-combustion engine. J. T. Booth. No. 1,405,747; Feb. 7.
- Internal-combustion engine. P. P. Bourne. No. 1,415,864; May 16.
- Internal-combustion engine. C. P. Brockway. Nos. 1,437,928-9; Dec. 5.
- Internal-combustion engine. B. L. Campbell. No. 1,410,886; Mar. 28.
- Internal-combustion engine. G. J. Carter and L. G. McFarlane. No. 1,429,016; Sept. 12.
- Internal-combustion engine. A. W. Chase. No. 1,411,710; Apr. 4.
- Internal-combustion engine. W. H. Clowry. No. 1,434,093; Oct. 31.
- Internal-combustion engine. C. R. Colt. No. 1,436,574; Nov. 21.
- Internal-combustion engine. W. W. Connors. No. 1,436,434; Nov. 21.
- Internal-combustion engine. W. R. Crider. No. 1,413,519; Apr. 18.
- Internal-combustion engine. K. I. Crossley and W. L. Webb. No. 1,410,894; Mar. 28.
- Internal-combustion engine. K. I. Crossley and W. L. Webb. Nos. 1,423,085-7; July 18.
- Internal-combustion engine. J. Davidson. No. 1,414,072; Apr. 25.
- Internal-combustion engine. D. P. Davies. No. 1,417,804; May 30.
- Internal-combustion engine. H. A. Douglas. No. 1,407,519; Feb. 21.
- Internal-combustion engine. P. Dougall. No. 1,423,407; July 18.
- Internal-combustion engine. E. P. du Pont. No. 1,408,179; Feb. 28.
- Internal-combustion engine. H. J. Edwards. No. 1,404,015; Jan. 17.
- Internal-combustion engine. J. E. and T. R. Everett. No. 1,405,403; Feb. 7.
- Internal-combustion engine. E. W. Farris. No. 1,432,451; Oct. 17.
- Internal-combustion engine. G. Feriani. No. 1,428,426; Sept. 5.
- Internal-combustion engine. W. Fisher. No. 1,428,376; Sept. 5.
- Internal-combustion engine. J. C. Fredricksen. No. 1,406,839; Feb. 14.
- Internal-combustion engine. J. Frelloehr. No. 1,437,051; Nov. 28.
- Internal-combustion engine. C. George. No. 1,432,596; Oct. 17.
- Internal-combustion engine. G. B. Gereau. No. 1,417,727; May 30.
- Internal-combustion engine. W. A. Gile. No. 1,439,958; Dec. 26.
- Internal-combustion engine. L. T. Godfrey-Evans. No. 1,414,356; May 2.
- Internal-combustion engine. W. W. Gore. No. 1,411,343; Apr. 4.
- Internal-combustion engine. H. B. Grant. No. 1,409,093; Mar. 7.
- Internal-combustion engine. S. M. Halton. No. 1,404,366; Jan. 24.
- Internal-combustion engine. J. F. Haussmann. No. 1,402,494; Jan. 3.
- Internal-combustion engine. R. O. Hendrickson. No. 1,407,694; Feb. 28.
- Internal-combustion engine. W. C. Heymann. No. 1,403,245; Jan. 10.
- Internal-combustion engine. R. Howe. No. 1,438,915; Dec. 12.
- Internal-combustion engine. C. H. Hutchinson. No. 1,437,757; Dec. 5.
- Internal-combustion engine. C. H. Hutchinson. No. 1,440,150; Dec. 26.
- Internal-combustion engine. N. Isachsen. No. 1,423,718; July 25.
- Internal-combustion engine. G. W. Jessup, Jr. No. 1,406,391; Feb. 14.
- Internal-combustion engine. C. A. Joy. No. 1,402,866; Jan. 10.
- Internal-combustion engine. L. B. Kershaw. No. 1,430,817; Oct. 3.
- Internal-combustion engine. S. L. G. Knox. No. 1,420,266; June 20.
- Internal-combustion engine. A. F. Krause. No. 1,410,019; Mar. 21.
- Internal-combustion engine. A. J. Krause. No. 1,436,177; Nov. 21.
- Internal-combustion engine. W. E. Laird. No. 1,418,875; June 6.
- Internal-combustion engine. J. O. W. Lavalley. No. 1,437,428; Dec. 5.
- Internal-combustion engine. C. M. Leech. No. 1,407,468; Feb. 21.
- Internal-combustion engine. J. Lemaire. No. 1,406,877; Feb. 14.
- Internal-combustion engine. R. M. Lovejoy. No. 1,415,374; May 9.
- Internal-combustion engine. R. M. Lovejoy. No. 1,431,473; Oct. 10.
- Internal-combustion engine. H. L. Meeder. No. 1,410,946; Mar. 28.
- Internal-combustion engine. H. C. Michelsen. No. 1,406,271; Feb. 14.
- Internal-combustion engine. J. W. Mowbray. No. 1,434,448; Nov. 7.
- Internal-combustion engine. O. L. Neisler. No. 1,414,149; Apr. 25.
- Internal-combustion engine. A. L. Nelson. No. 1,429,159; Sept. 12.
- Internal-combustion engine. A. E. Nicholls. No. 1,423,677; July 25.
- Internal-combustion engine. G. H. Nobbs. No. 1,418,668; June 6.
- Internal-combustion engine. M. Nuta. No. 1,406,886; Feb. 14.
- Internal-combustion engine. A. E. Osborn. No. 1,411,064; Mar. 28.
- Internal-combustion engine. A. E. Osborn. No. 1,419,512; June 13.
- Internal-combustion engine. W. F. Pagel. No. 1,439,377; Dec. 19.
- Internal-combustion engine. C. T. Peigler. No. 1,419,688; June 13.
- Internal-combustion engine. H. Péquignot. No. 1,408,775; Mar. 7.
- Internal-combustion engine. F. L. H. Pfeil. No. 1,423,680; July 25.
- Internal-combustion engine. F. R. Porter. No. 1,428,858; Sept. 12.
- Internal-combustion engine. A. L. Powell. Nos. 1,433,649-50; Oct. 31.
- Internal-combustion engine. A. L. Powell. Nos. 1,434,146-7; Oct. 31.
- Internal-combustion engine. T. Pratt. No. 1,431,754; Oct. 10.

Alphabetical list of inventions—Continued.

- Internal-combustion engine. C. R. Pryor. No. 1,427,632; Aug. 29.
- Internal-combustion engine. J. T. Ramsey. No. 1,429,164; Sept. 12.
- Internal-combustion engine. R. C. Reed. No. 1,413,541; Apr. 18.
- Internal-combustion engine. F. J. Reed. No. 1,415,481; May 9.
- Internal-combustion engine. E. A. Riotte. No. 1,437,016; Nov. 28.
- Internal-combustion engine. H. E. Robinson. No. 1,410,601; Mar. 28.
- Internal-combustion engine. R. M. Roof. No. 1,416,977; May 23.
- Internal-combustion engine. A. J. Rowledge. No. 1,425,057; Aug. 8.
- Internal-combustion engine. F. E. Rupright. No. 1,405,009; Jan. 31.
- Internal-combustion engine. H. J. Sallee. No. 1,407,336; Feb. 21.
- Internal-combustion engine. W. A. Schaffer. No. 1,411,384; Apr. 4.
- Internal-combustion engine. J. J. Schiller. No. 1,414,307; Apr. 25.
- Internal-combustion engine. A. C. F. Schultz, Jr. No. 1,419,693; June 13.
- Internal-combustion engine. H. R. Setz. No. 1,404,550; Jan. 24.
- Internal-combustion engine. J. M. Seymour. No. 1,404,551; Jan. 24.
- Internal-combustion engine. C. H. Sheasley. No. 1,409,886; Mar. 14.
- Internal-combustion engine. A. C. Sinclair. No. 1,431,188; Oct. 10.
- Internal-combustion engine. A. I. Sletten. No. 1,421,594; July 4.
- Internal-combustion engine. H. Smith and M. H. Paine. No. 1,413,363; Apr. 18.
- Internal-combustion engine. C. P. Smith. Nos. 1,431,547-8; Oct. 10.
- Internal-combustion engine. W. J. Snadecki. No. 1,422,143; July 11.
- Internal-combustion engine. F. A. Standiford. No. 1,417,697; May 30.
- Internal-combustion engine. S. Tamura and M. Watanabe. No. 1,402,111; Jan. 3.
- Internal-combustion engine. G. W. Teasdale. No. 1,408,422; Feb. 28.
- Internal-combustion engine. L. L. Turney. No. 1,427,984; Sept. 5.
- Internal-combustion engine. T. H. Venn. No. 1,430,041; Sept. 26.
- Internal-combustion engine. J. H. Wedig. No. 1,421,632; July 4.
- Internal-combustion engine. R. G. Wells. No. 1,424,965; Aug. 8.
- Internal-combustion engine. G. G. Westerfield. No. 1,421,878; July 4.
- Internal-combustion engine. W. B. S. Whaley. No. 1,430,480; Sept. 26.
- Internal-combustion engine. D. L. Winters. No. 1,403,218; Jan. 10.
- Internal-combustion engine. T. D. Wishart. No. 1,424,226; Aug. 1.
- Internal-combustion engine and controlling combustion therein. R. H. Folsom. No. 1,415,025; May 9.
- Internal-combustion engine attachment. R. L. Skinner. No. 1,415,060; May 9.
- Internal-combustion engine, Cooling. G. Bradshaw. No. 1,420,684; June 27.
- Internal-combustion engine, Double-acting. J. B. Price. No. 1,429,695; Sept. 19.
- Internal-combustion engine, Four-cycle. W. L. Webb and K. I. Crossley. No. 1,407,453; Feb. 21.
- Internal-combustion engine, Four-stroke-cycle. F. Sonal. No. 1,417,694; May 30.
- Internal-combustion-engine fuel. M. C. Whitaker. Nos. 1,420,006-7; June 20.
- Internal-combustion engine, High-powered multicylinder. J. H. Heuser. No. 1,429,877; Sept. 19.
- Internal-combustion engine, Liquid-fuel. G. C. Bingham. No. 1,410,241; Mar. 21.
- Internal-combustion engine, Oscillating. J. V. Rice, jr. No. 1,429,254; Sept. 19.
- Internal-combustion engine, Revolving-cylinder. J. D. Roots. No. 1,437,447; Dec. 5.
- Internal-combustion engine, Rotary. W. K. Davis. No. 1,402,057; Jan. 3.
- Internal-combustion engine, Rotary. A. R. Long. No. 1,408,753; Mar. 7.
- Internal-combustion engine, Two-cycle. J. Hutchinson. No. 1,429,078; Sept. 12.
- Internal-combustion engine, Two-cycle. A. G. L. and H. C. W. Neighbour. No. 1,423,578; July 25.
- Internal-combustion engine, Two-cycle. H. R. Setz. No. 1,407,585; Feb. 21.
- Internal-combustion engine, Two-cycle. D. L. Winters. No. 1,408,329; Feb. 28.
- Internal-combustion engine, Two or multi cylinder. A. O. L. Wennerby. No. 1,418,415; June 6.
- Internal-combustion engine, Two-stroke-cycle. J. C. M. MacLagan. No. 1,436,596; Nov. 21.
- Internal-combustion engine, Two-stroke-cycle. C. Webb. No. 1,436,130; Nov. 21.
- Internal-combustion engine, Two-stroke-cycle opposed-piston. W. B. Bronander. No. 1,432,320; Oct. 17.
- Internal-combustion engines, Combustion chamber for. E. H. Tartrais. No. 1,419,702; June 13.
- Internal-combustion gas and oil engine, Horizontal. K. I. Crossley and W. L. Webb. No. 1,425,946; Aug. 15.
- Internal-combustion motor. A. Behn and J. G. Schmitt. No. 1,423,073; July 18.
- Internal-combustion motor. E. W. Christie. No. 1,428,322; Sept. 5.
- Internal combustion motor. J. F. Cook. No. 1,403,736; Jan. 17.
- Internal-combustion motor. W. J. Dunn. No. 1,407,393; Feb. 21.
- Internal-combustion motor. W. H. Murphy. No. 1,430,747; Oct. 3.
- Internal-combustion rotary engine. E. E. Bidwell. No. 1,427,053; Aug. 22.
- Internal-combustion rotary engine. T. G. Mahon and J. P. Burnes. No. 1,427,692; Aug. 29.
- Interpupillary and bridge measure, Precision. W. H. Oldach. No. 1,413,606; Apr. 25.
- Interrupter mechanism. W. H. Richter. No. 1,418,881; June 6.
- Intersection-operating system. S. E. McFarland. No. 1,407,209; Feb. 21.
- Inventory, envelope, and ticket, Combined. S. E. Kearney. No. 1,413,123; Apr. 18.
- Investment composition. J. G. Saravia. No. 1,407,774; Feb. 28.
- Investment material. L. J. Gilbert. No. 1,432,545; Oct. 17.
- Invoice sheet. W. A. Kelly. No. 1,428,102; Sept. 5.
- Invoice sheet. W. A. Kelly. No. 1,429,436; Sept. 19.
- Invoice sheet. J. A. B. Smith. No. 1,428,266; Sept. 5.
- Iodine, Obtaining. O. von Faber. No. 1,438,071; Dec. 5.
- Iodine, Tablet for producing. L. Davis. No. 1,429,276; Sept. 19.
- Iodine to diseased and injured portions of the body, Applying. H. C. Harding. No. 1,426,633; Aug. 22.
- Iris diaphragm. P. J. Marks. No. 1,422,461; July 11.
- Iris diaphragm. F. Meyer. No. 1,411,219; Mar. 28.
- Iron: See—
- Angle iron. Gasoline soldering iron.
 - Branding iron. Hair-curling iron.
 - Creasing iron. Marcel iron.
 - Curling iron. Pancake iron.
 - Electric iron. Plane iron.
 - Electric flatiron. Press iron.
 - Electric heating iron. Soldering iron.
 - Electric press iron. Soldering iron.
 - Electric soldering iron. Waffle iron.
 - Electrolytic iron.
- Iron. J. W. McGilvray and J. Wellersdick. No. 1,403,432; Jan. 10.
- Iron and eliminating objectionable gases and oxides, Purifying cast. J. R. Billings. No. 1,412,077; Apr. 11.
- Iron and its alloys, Composition for treating. W. H. Fisher and P. Chambers. No. 1,405,678; Feb. 7.
- Iron and steel, Direct manufacture of. L. P. Basset. No. 1,435,686; Nov. 14.
- Iron and steel, Manufacture of. T. Rouse. No. 1,428,061; Sept. 5.
- Iron and steel, Producing. W. E. F. Bradley. No. 1,422,733; July 11.
- Iron and steel scrap, Producing finished sections from. C. Johns. No. 1,425,971; Aug. 15.
- Iron arrangement, Carry-. F. B. Ernst. No. 1,428,685; Sept. 12.
- Iron bar, Rolled. H. Gockel. No. 1,422,694; July 11.
- Iron from its ores, Extracting. A. J. Moxham. Nos. 1,420,128-9; June 20.
- Iron from solutions containing aluminum, Removing. T. Majdell. No. 1,421,804; July 4.
- Iron or steel, Making. L. P. Basset. No. 1,419,801; June 13.
- Iron or steel plate tightener. O. Johnson and P. Nordang. No. 1,434,345; Oct. 31.
- Iron or steel preparation for lead and tin-coating. J. H. Maddy. No. 1,413,343; Apr. 18.
- Iron oxide and other products from spent iron sludge, Recovering. C. V. Bacon. No. 1,428,521; Sept. 12.
- Iron oxides, Apparatus for making. T. French. No. 1,438,372; Dec. 12.
- Iron, Producing. D. M. Crist. No. 1,434,484; Nov. 7.
- Iron sponge from iron ore according to the dry reduction process, Production of. A. Sinding-Larsen. No. 1,433,854; Oct. 31.
- Iron, steel, and alloys thereof, Heat treatment for articles of. W. M. Mordey. No. 1,412,484; Apr. 11.
- Iron, steel, and alloys thereof, Method and means for carburizing. A. J. P. Bertschy. No. 1,408,686; Mar. 7.
- Iron, titanium, and vanadium, Treating minerals containing. B. P. F. Kjellberg. No. 1,419,971; June 20.
- Iron, Treating ore to produce pure. A. J. Moxham. No. 1,420,127; June 20.
- Ironers, Feeding device for flat-work. D. D. Canfield. No. 1,406,823; Feb. 14.
- Ironing and clothes chest, Combination. D. Hansen. No. 1,440,009; Dec. 26.
- Ironing and folding machine, Combined. L. M. Kohn. No. 1,417,255; May 23.
- Ironing appliance. M. V. Keller. No. 1,431,740; Oct. 10.
- Ironing board. J. L. Liale. No. 1,413,482; Apr. 18.

Alphabetical list of inventions—Continued.

- Ironing board. J. W. Lucus. No. 1,431,673; Oct. 10.
 Ironing board. W. C. Marks. No. 1,427,963; Sept. 5.
 Ironing board. W. L. McGowan. No. 1,433,897; Oct. 31.
 Ironing board. W. McCrory. No. 1,435,407; Nov. 14.
 Ironing board. W. W. Milan. No. 1,420,206; June 20.
 Ironing board. A. Swanson. No. 1,415,961; May 16.
 Ironing board. J. L. Wilcox. No. 1,406,515; Feb. 14.
 Ironing board and clothes hanger, Combined. J. P. Gibson. No. 1,437,589; Dec. 5.
 Ironing board and table, Combined. G. A. Stein. No. 1,402,024; Jan. 3.
 Ironing-board attachment. M. E. Koehler. No. 1,429,081; Sept. 12.
 Ironing-board Cabinet. W. P. Ballard and W. D. Perry. No. 1,427,343; Aug. 29.
 Ironing board, Cabinet. F. W. Mazsick. No. 1,428,967; Sept. 12.
 Ironing-board cloths, Clamp for. B. Ehrmans, S. and C. M. Jobanson, and P. M. Peterson. No. 1,420,027; June 20.
 Ironing-board cover. S. C. Lefkovits. No. 1,403,088; Jan. 10.
 Ironing board, Foldable. J. H. Richardson. No. 1,407,821; Feb. 28.
 Ironing board, Folding. H. R. Meyer. No. 1,425,030; Aug. 8.
 Ironing board, stepladder, and house truck, Combined. H. C. Snook. No. 1,423,366; July 18.
 Ironing chest. D. O. Himebaugh. No. 1,428,435; Sept. 5.
 Ironing machine. W. E. Baker. No. 1,423,068; July 18.
 Ironing machine. W. E. Baker. No. 1,431,279; Oct. 10.
 Ironing machine. T. W. Behan. No. 1,433,980; Oct. 31.
 Ironing machine. C. L. Braley. No. 1,415,302; May 9.
 Ironing machine. E. I. Flateboe. No. 1,411,776; Apr. 4.
 Ironing machine. J. A. Luyben. No. 1,431,592; Oct. 10.
 Ironing machine. J. J. Marx. No. 1,417,622; May 30.
 Ironing machine. J. Mikulasek. No. 1,417,625; May 30.
 Ironing machine. F. E. Ormsby. No. 1,438,715; Dec. 12.
 Ironing machine. C. W. Swanson. No. 1,432,639; Oct. 17.
 Ironing machine. E. L. York. No. 1,403,582; Jan. 17.
 Ironing machine, Yoke. C. L. Braley. No. 1,415,303; May 9.
 Ironing machines, Gas burner for. M. G. Higgins. No. 1,433,721; Oct. 31.
 Ironing machines, Padding element for. T. J. Yates. No. 1,432,940; Oct. 24.
 Ironing table. E. R. Houston. No. 1,406,386; Feb. 14.
 Ironing table. C. L. Leonard. No. 1,411,854; Apr. 4.
 Ironing table. R. D. Springer. No. 1,432,215; Oct. 17.
 Ironing table, Folding. J. W. H. Glass. No. 1,408,880; Mar. 7.
 Irons, Method of and form for bending chute. G. S. Tibbits. No. 1,436,549; Nov. 21.
 Irons, Stand and automatic switch for electric. A. J. Shirk and S. Cohen. No. 1,421,586; July 4.
 Irons, Stand and automatic switch for electric. A. J. Shirk and S. Cohen. No. 1,421,850; July 4.
 Irrigating machine. J. C. Mitchell. No. 1,429,756; Sept. 19.
 Irrigation apparatus. R. N. Werstler. No. 1,410,434; Mar. 21.
 Isatin- α -arylides with sulphur dioxide, Preparation of compound of. C. Stephan. No. 1,427,863; Sept. 5.
 Jack. *See*—
 Adjustable jack. Oil-well pump jack.
 Auto jack. Pile-lifting jack.
 Automobile jack. Pneumatic lifting jack.
 Automobile combination jack. Power jack.
 Autopower - transmitting jack. Pump jack.
 Carriage-lifting jack. Pumping jack.
 Clevis jack. Railway motor jack.
 Conduit-forming jack. Roller jack.
 Double-gear jack. Screw jack.
 Electric lifting jack. Self-lowering jack.
 High-speed jack. Shoemaker's jack.
 Hydrostatic jack. Spudding jack.
 Knitting - machine - needle jack. Track-lining jack.
 Lift jack. Truck jack.
 Lifting jack. Universal joint.
 Log-loading jack. Vehicle jack.
 Lumber jack. Vehicle roller jack.
 Mining-machine jack. Wagon jack.
 Muntin joint. Well-drill jack.
 Wheel-rim jack.
 Jack. H. Baron. No. 1,430,144; Sept. 26.
 Jack. W. L. Couture. No. 1,435,452; Nov. 14.
 Jack. T. H. Cyrus. No. 1,415,805; May 9.
 Jack. J. B. Hasty. No. 1,427,459; Aug. 29.
 Jack. W. Hendry. No. 1,409,377; Mar. 14.
 Jack. W. C. Kirk, Sr. No. 1,418,654; June 6.
 Jack. G. F. Kuehn. No. 1,420,114; June 20.
 Jack. G. F. Kuehn and L. W. Rosenthal. No. 1,420,113; June 20.
 Jack. A. F. Lanier. No. 1,426,201; Aug. 15.
 Jack. H. Lorenzen. No. 1,406,881; Feb. 14.
 Jack. H. C. Newman. No. 1,435,128; Nov. 7.
 Jack. F. R. Sunderman. No. 1,427,241; Aug. 29.
 Jack. W. J. Trumpour and W. Wirth. No. 1,416,912; May 23.
 Jack. W. J. Werner. No. 1,414,004; Apr. 25.
 Jack for removing pinions, etc., from shafts. E. V. Carter and A. W. Sprague. No. 1,403,893; Jan. 17.
 Jacking apparatus. J. Gutmann, Jr. No. 1,416,633; May 16.
 Jacks, Operating mechanism for. G. I. Hipple. No. 1,434,698; Nov. 7.
 Jackscrew. J. M. Lydick. No. 1,422,279; July 11.
 Jacket. Hunting and fishing. J. A. Thureson. No. 1,426,024; Aug. 15.
 Jar. *See*—
 Candy jar. Well drill jar.
 Fruit jar.
 Jar-cap former. L. F. Kuip. No. 1,418,939; June 6.
 Jar clamp. J. Dudek. No. 1,410,390; Mar. 21.
 Jar clamp and holder, Fruit. N. N. Farlow. No. 1,408,184; Feb. 28.
 Jar-closing machine. T. L. Taliaferro. No. 1,407,901; Feb. 28.
 Jar closure. O. C. Davis. No. 1,427,151; Aug. 29.
 Jar closure. Q. A. Gates. No. 1,438,033; Dec. 5.
 Jar closure. C. R. Keeran. No. 1,425,594; Aug. 15.
 Jar closure. A. W. Krowicki. No. 1,411,171; Mar. 28.
 Jar closure. J. W. Limbert. No. 1,432,764; Oct. 24.
 Jar closure. N. T. Toffing. No. 1,415,908; May 16.
 Jar-closure device. H. Rubinson. No. 1,426,605; Aug. 22.
 Jar cover and gasket. A. Foltz. No. 1,440,349; Dec. 26.
 Jar holder. T. G. Melish. No. 1,421,705; July 4.
 Jar holder. G. H. Scott. No. 1,430,328; Sept. 26.
 Jar holder. Collapsible fruit. A. C. Burlingame. No. 1,429,675; Sept. 19.
 Jar holder, Fruit. L. H. Shank. No. 1,422,626; July 11.
 Jar lifter. A. May. No. 1,420,273; June 20.
 Jar opener. H. L. Blood. No. 1,411,835; Apr. 4.
 Jar opener. A. L. Cole. No. 1,432,670; Oct. 17.
 Jar opener and sealer, Combination fruit. E. V. Phillips. No. 1,429,452; Sept. 19.
 Jar opener, Fruit. J. H. Burck. No. 1,407,632; Feb. 21.
 Jar top. E. N. Kindland. No. 1,436,346; Nov. 21.
 Jar-top fastener. L. O. Culver. No. 1,436,576; Nov. 21.
 Jar top or closure. C. Von Allmen. No. 1,437,029; Nov. 28.
 Jar, Weldless drill. G. R. Watson. No. 1,405,468; Feb. 7.
 Jarring machine. C. F. Shumaker. No. 1,436,295; Nov. 21.
 Jars, bottles and other receptacles, Closure for. A. and H. Ingram. No. 1,430,084; Sept. 26.
 Jars, Cover for preserving. J. H. Paige. No. 1,425,212; Aug. 8.
 Jars, Device for applying, removing, and sealing covers of Mason. J. T. Tillman and P. Schweich. No. 1,407,710; Feb. 28.
 Jars, Making battery. S. H. Heist. No. 1,414,326; Apr. 25.
 Jars, Method and device for handling preserving. G. Winkler. No. 1,415,618; May 9.
 Jars of steam tables, Lid for. V. S. Corder. No. 1,431,288; Oct. 10.
 Jars, Sealing device for. B. E. Taylor. No. 1,407,008; Feb. 21.
 Jaw, Brake-rod. E. M. Summerhays. No. 1,405,877; Feb. 7.
 Jewel, Artificial. R. Shand. No. 1,406,502; Feb. 14.
 Jewel bearing, Synthetic. T. G. McDougal and S. J. McDowell. No. 1,438,188; Dec. 12.
 Jewel case. G. E. Kissick. No. 1,414,025; Apr. 25.
 Jewel setting. J. W. Mayer. No. 1,435,936; Nov. 21.
 Jewel-setting machine. L. E. Garnett. No. 1,415,235; May 9.
 Jeweler's loupe. E. W. Paddison. No. 1,424,848; Aug. 8.
 Jeweler's tray. E. H. Brown. No. 1,436,233; Nov. 21.
 Jewelry. G. Grand and C. S. Trattner. No. 1,403,600; Jan. 17.
 Jewelry. C. G. Wetzel. No. 1,420,897; June 27.
 Jewellery and manufacturing the same. H. W. Fishel. No. 1,425,188; Aug. 8.
 Jewellery, Article of. W. J. Fuermann. No. 1,428,158; Sept. 5.
 Jewelry container. L. E. Baer. No. 1,420,232; June 20.
 Jewelry coupling. A. Bippart. No. 1,421,388; July 4.
 Jewelry coupling. F. and A., Sr., Fraus. No. 1,403,192; Jan. 10.
 Jewelry guard. L. J. Schloss. No. 1,431,689; Oct. 10.
 Jewelry, Moving display apparatus for. C. E. Chapman. No. 1,425,508; Aug. 15.
 Jewelry setting. R. Greenfield. No. 1,434,886; Nov. 7.
 Jewelry, Setting for. J. Hyman. No. 1,431,734; Oct. 10.
 Jewelry snap fastener. A. Knopf. No. 1,405,227; Jan. 31.
 Jewelry, Snap for. C. A. Ford. No. 1,406,179; Feb. 14.
 Jewelry tray. C. E. Chapman. No. 1,425,317; Aug. 8.
 Jewelry unit and method and apparatus for making the same. O. Heyman. No. 1,433,819; Oct. 31.
 Jib crane and the like. W. H. Watkins. No. 1,434,076; Oct. 31.
 Jibbing buffer. J. S. Gendall. No. 1,433,199; Oct. 24.
 Jig. O. E. Barber. No. 1,433,252; Oct. 24.
 Jig, Aligning. W. A. Forbess and C. R. Ames. No. 1,428,224; Sept. 5.
 Jig, Babbitting. E. L. Daily. No. 1,438,637; Dec. 12.
 Jig, Bending. F. C. Fischer. No. 1,419,550; June 13.
 Jig, Wing. E. T. Musson. No. 1,434,559; Nov. 7.
 Jimmyproof lock. M. Forlander. No. 1,428,367; Sept. 5.
 Job presses, Gripper for. R. B. Rice. No. 1,402,090; Jan. 3.

Alphabetical list of inventions—Continued.

- Jock strap. T. La Maida. No. 1,429,510; Sept. 19.
- Jogging machine. H. C. Gammeter. No. 1,411,964; Apr. 4.
- Jogger-rack attachment. O. D. Miller. No. 1,434,907; Nov. 7.
- Joiner's trenching tool. T. H. Lodge. No. 1,432,072; Oct. 17.
- Joint. *See*—
- Adjustable clamping joint. Pipe joint.
 - Anticorrosion expansion joint. Pipe and tool joint.
 - Box joint. Rail joint.
 - Crossing-bar joint. Railway-rail joint.
 - Expansion joint. Reinforced joint.
 - Fluid-tight joint. Sectional fire-screen joint.
 - Handle joint. Steam packing joint.
 - Hinge joint. Thrust joint.
 - Knee joint. Universal joint.
 - Lock joint. Universal pipe joint.
 - Miter joint. Welded joint.
 - Mortise joint. Wood joint.
- Joint. J. Choppinet, G. Gillon, and V. Defays. No. 1,436,573; Nov. 21.
- Joint. R. M. Spencer. No. 1,433,860; Oct. 31.
- Joint. G. A. Ungar. No. 1,403,064; Jan. 10.
- Joint and forming the same. A. R. Earnshaw. No. 1,412,556; Apr. 11.
- Joint and hinge, Combined. S. T. French. No. 1,417,984; May 30.
- Joint and making the same, Universal. M. L. Emet. No. 1,421,072; June 27.
- Joint casing, Universal. B. B. Neuteboom. No. 1,428,799; Sept. 12.
- Joint construction, Expandable. W. C. Parmley and C. Gilman. No. 1,435,175; Nov. 14.
- Joint for coupling shafts, Universal. C. M. Spangler. No. 1,429,980; Sept. 26.
- Joint for laceplate doors, Hinge. G. B. Thomas. No. 1,434,971; Nov. 7.
- Joint or connection. A. Lysiak. No. 1,428,792; Sept. 12.
- Joint, Universal. W. M. Ziegler. No. 1,407,617; Feb. 21.
- Joint with regulation of the lateral play, Self-lubricating pivot. A. De Coninck. No. 1,439,297; Dec. 19.
- Jointed rod. A. M. Stewart. No. 1,435,028; Nov. 7.
- Jointer clamp. R. P. Viar. No. 1,410,984; Mar. 21.
- Joints, Forming hinge. N. B. Douglass. No. 1,406,727; Feb. 14.
- Joints, Lubricant feed for universal. D. Mac Tavish. No. 1,438,605; Dec. 12.
- Joist-boring machine, Collapsible. R. H. Henderson. No. 1,426,476; Aug. 22.
- Joist construction form, Floor-. E. T. McAbee. No. 1,417,614; May 30.
- Joist banger. W. L. Caldwell. No. 1,406,723; Feb. 14.
- Journal bearing. S. McMillen. No. 1,419,506; June 13.
- Journal bearing and lubricating means therefor, Car. F. Radcliffe. No. 1,426,102; Aug. 15.
- Journal bearing, Lubricating. H. F. Schmidt. No. 1,416,884; May 23.
- Journal-bearing seal. F. J. Heidman. No. 1,435,391; Nov. 14.
- Journal bearings, Means for indicating the wear in. T. R. Miller. No. 1,433,217; Oct. 24.
- Journal box. W. Friedrich. No. 1,436,872; Nov. 28.
- Journal box. J. A. Lamont. No. 1,436,633; Nov. 21.
- Journal box. A. C. McCord. No. 1,403,613; Jan. 17.
- Journal box. A. E. Ostrander and H. H. Williams. No. 1,415,045; May 9.
- Journal box. A. E. Ostrander and H. H. Williams. Nos. 1,415,108-9; May 9.
- Journal box. A. E. Ostrander and H. H. Williams. No. 1,432,200; Oct. 17.
- Journal box. W. C. Skeels. No. 1,420,156; June 20.
- Journal box. H. B. Williams. No. 1,413,549; Apr. 18.
- Journal box and mounting. L. K. Stafford. No. 1,406,099; Feb. 7.
- Journal-box cooler. J. Hinson. No. 1,421,473; July 4.
- Journal-box ends, Tool for surfacing. J. R. Lewis. No. 1,413,920; Apr. 25.
- Journal-box hinge pin. W. F. Kiesel, jr. No. 1,433,379; Oct. 24.
- Journal-box lid. L. W. Hostettler. No. 1,425,092; Aug. 8.
- Journal-box lids, Making. L. W. Hostettler. No. 1,425,093; Aug. 8.
- Journal boxes and producing the same, Cooling compound for hot. J. Q. Gill. No. 1,423,103; July 18.
- Journal boxes, Dust guard for. F. S. Barks. No. 1,406,816; Feb. 14.
- Journal boxes, Jack for. C. E. Raiber. No. 1,409,024; Mar. 7.
- Journal boxes, Waste retainer for. R. G. McKee. No. 1,416,105; May 16.
- Journal lubricator. J. J. Hennessy. Nos. 1,423,850-1; July 25.
- Journal lubricator. J. J. Hennessy. No. 1,430,372; Sept. 26.
- Journal, Roller-bearing. E. Posson. No. 1,406,279; Feb. 14.
- Journal truing or turning tool. H. A. Lee. No. 1,411,441; Apr. 4.
- Juice-extraction apparatus. J. I. Thornycroft. No. 1,409,797; Mar. 14.
- Juices, jellies, and jams from vegetable substances such as fruits and vegetables, Making. O. Biemann. No. 1,429,834; Sept. 19.
- Junction box. M. Hirshfeld. No. 1,402,769; Jan. 10.
- Juvenile blocks. W. C. Badley. No. 1,403,948; Jan. 17.
- Kaidscope. H. E. House. No. 1,414,469; May 2.
- Kapok and other fibers incombustible, Method to render. R. C. Valls. No. 1,422,242; July 11.
- Kapok, Handling. L. G. Broel. No. 1,421,663; July 4.
- Keg, Metallic. R. W. Blanton. No. 1,420,220; Sept. 19.
- Keg or barrel, Fiber. J. C. Heron, F. H. Bragdon, and W. J. Clark. No. 1,439,890; Dec. 26.
- Kerosene burner. D. MacDonald. No. 1,434,715; Nov. 7.
- Kerosene burner. J. S. Noel. No. 1,430,105; Sept. 26.
- Kettle. J. A. Samuels. No. 1,407,088; Feb. 21.
- Kettle cover. B. M. Shaddrick and D. F. Dee. No. 1,433,484; Oct. 24.
- Kettle-lid holder. E. P. Sidle. No. 1,408,410; Feb. 28.
- Kettle tilter and cover holder. C. Sands. No. 1,410,128; Mar. 21.
- Kettles, Alembic combined distilling and sterilizing attachment for. J. Tashima. No. 1,432,136; Oct. 17.
- Kettles, Attachment for evaporating. M. E. Henderson. No. 1,431,523; Oct. 10.
- Key. *See*—
- Brake-shoe key. Switching key.
 - String-instrument key.
- Key. G. Fuegel and H. Schmid. No. 1,417,161; May 23.
- Key. B. P. Hayes. No. 1,415,029; May 9.
- Key and fitting the same, Driving. R. A. Smith. No. 1,439,769; Dec. 26.
- Key and switch, Combined. F. Lowenstein. No. 1,419,460; June 13.
- Keyboard tape perforator. E. E. Kleinschmidt. No. 1,420,931; June 27.
- Key bolt. J. P. Northey. No. 1,424,319; Aug. 1.
- Key bolt. J. P. Northey. No. 1,439,635; Dec. 19.
- Key bolt. C. W. Walther. No. 1,409,626; Mar. 14.
- Key bolt. A. H. Weston and J. Zilliox. No. 1,420,005; June 20.
- Key bolts, Making. A. H. Weston and J. Zilliox. No. 1,403,365; Jan. 10.
- Key-carrying chain. B. Urich. No. 1,423,280; July 18.
- Key case. B. Biehl, Sr. No. 1,418,059; May 30.
- Key case. F. G. Bowen. No. 1,404,736; Jan. 31.
- Key case. W. R. Buxton. No. 1,423,909; July 25.
- Key case. A. Largman. No. 1,403,087; Jan. 10.
- Key case. W. L. Thaler and H. H. Glazer. No. 1,435,033; Nov. 7.
- Key case, Flexible. I. Eisenstark. No. 1,403,898; Jan. 17.
- Key-case holder. D. I. Reiter. No. 1,403,445; Jan. 10.
- Key clasp. J. P. Henry. No. 1,425,089; Aug. 8.
- Key-cutting machine. R. D. King. No. 1,410,683; Mar. 28.
- Key device, Self-fitting. R. A. Smith. No. 1,433,770; Dec. 26.
- Key-duplicating machine. S. Segal. No. 1,439,382; Dec. 19.
- Key-duplicating machine. W. C. Wetherholt. No. 1,422,155; July 11.
- Key fastener. W. C. Brandt and J. A. Lewis. No. 1,410,527; Mar. 21.
- Key fastener. W. A. Uttz. No. 1,438,198; Dec. 12.
- Key-forming machines, Ejecting device for. J. Neenan. No. 1,432,199; Oct. 17.
- Key holder. B. Berman. No. 1,412,602; Apr. 11.
- Key holder. J. M. Bryson. No. 1,436,694; Nov. 28.
- Key holder. L. Moen. No. 1,410,213; Mar. 21.
- Key holder. C. L. Oberlander. No. 1,420,335; June 20.
- Key holder. G. R. Perry. No. 1,423,147; July 18.
- Key holder. W. G. Staples. No. 1,424,121; July 25.
- Keyhole guard. J. G. Stolpe. No. 1,413,300; Apr. 18.
- Keyhole protector. J. A. Warren. No. 1,405,368; Jan. 31.
- Keyless lock. W. Leon. No. 1,403,256; Jan. 10.
- Keyless lock, Combination. G. E. Thum. No. 1,437,028; Nov. 28.
- Key lock. J. Junkunc. No. 1,411,280; Apr. 4.
- Key-locking device. W. A. Holquist. No. 1,418,872; June 6.
- Key-operated lock. F. Horak. No. 1,403,472; Jan. 10.
- Key placing and removing tool. H. L. Berman. No. 1,421,152; June 27.
- Key pouch. M. Schweinschaut. No. 1,426,782; Aug. 22.
- Key retainer. E. W. Eggebrecht. No. 1,432,985; Oct. 24.
- Key ring. E. Böhm. No. 1,412,011; Apr. 4.
- Key ring. J. Husar. No. 1,439,738; Dec. 26.
- Key ring. P. Hoff. No. 1,415,934; May 16.
- Key ring. H. G. Johnson. No. 1,402,072; Jan. 3.
- Key ring. R. Morris. No. 1,427,836; Sept. 5.
- Key ring. L. E. Polhemus. No. 1,427,016; Aug. 22.
- Key ring and holder. L. E. Polhemus. No. 1,419,408; June 13.
- Key-ring holder. R. L. Cooper. No. 1,414,181; Apr. 25.
- Key-ring holder. F. Crawford. No. 1,432,016; Oct. 17.
- Key-ring holder. F. Hachmann. No. 1,408,589; Mar. 7.
- Key-ring holder. P. J. Scherlis. No. 1,418,979; June 6.
- Key-seating machine. C. Winkler. No. 1,420,600; June 20.
- Key seats, Machine for cutting. R. J. Miller. No. 1,438,324; Dec. 12.
- Key stop. N. White. No. 1,437,286; Nov. 28.
- Keyway locator. K. W. Couse. No. 1,422,746; July 11.
- Keyway-slotting device. W. F. Schmidt. No. 1,436,826; Nov. 28.

Alphabetical list of inventions—Continued.

- Keys and the like, Case for. W. R. Buxton. Nos. 1,439,863-4; Dec. 26.
- Keys, Luminous indicating button for. H. Levey. No. 1,438,839; Dec. 12.
- Keys, Machine for duplicating. C. A. Berry. No. 1,408,166; Feb. 28.
- Kiln: *See—*
- Dry kiln. Pottery kiln.
- Drying kiln. Rotary kiln.
- Limekiln. Tunnel kiln.
- Kiln. R. T. Kyle. No. 1,426,655; Aug. 22.
- Kiln. R. K. Meade. No. 1,416,657; May 16.
- Kiln. F. Peiter. No. 1,434,023; Oct. 31.
- Kiln. J. B. Riffle and L. H. Hartman. No. 1,411,871; Apr. 4.
- Kiln and process, Drying. M. L. Mueller. No. 1,423,136; July 18.
- Kiln, Continuous. W. G. de Steigner. No. 1,407,192; Feb. 21.
- Kiln, Dry. N. H. and H. L. Henderson. No. 1,422,202; July 11.
- Kiln, Dry. R. W. Kent. No. 1,403,417; Jan. 10.
- Kiln drying, Method and apparatus for. M. L. Mueller. No. 1,437,385; Nov. 28.
- Kiln for burning cement, Rotating. N. Winqvist. No. 1,415,970; May 16.
- Kiln furnace. F. M. Marris. No. 1,407,288; Feb. 21.
- Kiln furnaces, Discharging device for. R. von Steiger. No. 1,412,811; Apr. 11.
- Kiln, Rotary. A. B. Carstens. No. 1,415,990; May 16.
- Kiln, Rotary. J. S. Fasting. No. 1,404,381; Jan. 24.
- Kiln with heating chambers and cooling chambers. V. Gelpke. No. 1,426,287; Aug. 15.
- Kilns, Air seal for. W. F. Sellers. No. 1,434,796; Nov. 7.
- Kilns and other structures, Heating device for. G. C. Heilman. No. 1,439,103; Dec. 19.
- Kilns and the like, Furnace-drawing apparatus for lime and cement. C. Candlot. No. 1,429,925; Sept. 26.
- Kilns, Drawing apparatus for. U. S. Speed. No. 1,438,407; Dec. 12.
- Kilns, System of. L. Weeks. No. 1,404,412; Jan. 24.
- Kilometer per liter register. R. Schiske. No. 1,435,422; Nov. 14.
- Kindling device. H. Grossmann. No. 1,422,698; July 11.
- Kinograph mechanism, Film gate for. L. Brown. No. 1,404,707; Jan. 24.
- Kinograph movement. G. A. Mitchell. No. 1,403,339; Jan. 10.
- Kinetographs, Magazine and magazine attachment for. L. Brown. No. 1,428,138; Sept. 5.
- King bolt. A. Egbert and E. Holmes. No. 1,421,768; July 4.
- Kit-holding bracket. R. F. Webber. No. 1,430,525; Sept. 26.
- Kitchen and culinary uses, Household apparatus for. A. L. Holcomb. No. 1,437,056; Nov. 28.
- Kitchen and ironing table, Combined. J. A. Malarkey. No. 1,424,418; Aug. 1.
- Kitchen cabinet. D. Turbeville. No. 1,424,531; Aug. 1.
- Kitchen, Rolling. J. Morrison. No. 1,422,603; July 11.
- Kitchen table. A. R. Stephens. No. 1,436,546; Nov. 21.
- Kitchen utensil. H. S. Britton. No. 1,427,439; Aug. 29.
- Kitchen utensil. R. W. Charlton. No. 1,417,453; May 23.
- Kitchenette. K. M. Murchison. No. 1,438,713; Dec. 12.
- Kitchenette, Portable. J. H. Johnson. No. 1,407,158; Feb. 21.
- Kitchenette, Portable. F. B. Purdie. No. 1,406,758; Feb. 14.
- Kite. C. C. Reid. No. 1,425,419; Aug. 8.
- Kite, Balloon. J. M. Allison. No. 1,432,515; Oct. 17.
- Kite reel. G. D. Wanner. No. 1,414,237; Apr. 25.
- Kneading and mixing machine. G. B. Eggert. No. 1,411,610; Apr. 4.
- Kneecap or elbow bandage. J. D. Willmott. No. 1,428,465; Sept. 5.
- Knee joint, Artificial. A. Habermann. No. 1,421,216; June 27.
- Knee pad. P. H. Rylander. No. 1,436,537; Nov. 21.
- Knee protector. D. F. Abrahamson. No. 1,440,121; Dec. 26.
- Knee protector. J. S. Swope. Nos. 1,404,722-3; Jan. 24.
- Knee rest. J. G. Laycock. No. 1,439,006; Dec. 19.
- Knee rest. H. C. McCord. No. 1,409,746; Mar. 14.
- Knickers. P. Leiken. No. 1,423,668; July 25.
- Knife: *See—*
- Cigar-maker's knife. Self-opening pocketknife.
- Hog-scraping knife. Spade knife.
- Pocket knife. Trimming knife.
- Race knife.
- Knife. H. D. Ball and E. L. Bradbury. No. 1,413,954; Apr. 25.
- Knife. E. C. Delsing. No. 1,439,507; Dec. 19.
- Knife. J. O. Hughes. No. 1,434,388; Nov. 7.
- Knife. E. Krafft. No. 1,416,723; May 23.
- Knife. M. Neft. No. 1,428,296; Sept. 5.
- Knife. M. Neft. No. 1,431,835; Oct. 10.
- Knife and fork, Combined. J. H. Crawford. No. 1,425,750; Aug. 15.
- Knife-blade switch. G. L. Christman. No. 1,427,359; Aug. 29.
- Knife-blade switch. R. Freund. No. 1,416,185; May 16.
- Knife-blade switch. A. H. Trumbull. No. 1,424,266; Aug. 1.
- Knife blanks, Machine for serrating. G. T. Thatcher. No. 1,420,786; June 27.
- Knife handles and blades, Connection for. J. A. Richard. No. 1,420,342; June 20.
- Knife, Miner's. H. Kallio. No. 1,440,014; Dec. 26.
- Knife, Race. A. E. Wolter. No. 1,413,308; Apr. 18.
- Knife, Faring. E. K. Lien. No. 1,436,811; Nov. 28.
- Knife, Faring, Splitting, and coring. D. P. Steeples. No. 1,431,764; Oct. 10.
- Knife pouch. J. H., J. F., and F. J. Puke. No. 1,431,487; Oct. 10.
- Knife, Pruning. J. C. Cashman. No. 1,439,225; Dec. 19.
- Knife, Ring. P. P. Binkis. No. 1,432,316; Oct. 17.
- Knife-setting machine. N. A. Lockwood. No. 1,405,790; Feb. 7.
- Knife wiper. C. F. Willsie. No. 1,435,077; Nov. 7.
- Knives for table use, Manufacturing one-piece rustless. R. G. Lee and T. B. Lashar. No. 1,407,794; Feb. 28.
- Knives, Machine for grinding. A. Hughes. No. 1,427,900; Sept. 5.
- Knives, Protecting device for the edge of butchers'. F. C. Hammar. No. 1,426,184; Aug. 15.
- Knives, Revolving cane. W. G. Hall. No. 1,401,978; Jan. 3.
- Knit fabric, Vertically-striped. R. Fisher. No. 1,431,643; Oct. 10.
- Knitted cap. A. Cohn. No. 1,431,287; Oct. 10.
- Knitted cap. B. Spector and L. E. Rosenberg. No. 1,421,602; July 4.
- Knitted fabric. H. T. Ballard. No. 1,432,739; Oct. 24.
- Knitted fabric. V. Lombardi. No. 1,426,576; Aug. 22.
- Knitted fabric. F. P. Walter. No. 1,407,343; Feb. 21.
- Knitted fabric. E. H. Walter. No. 1,436,326; Nov. 21.
- Knitted glove and making same. G. P. Bosworth. No. 1,413,314; Apr. 18.
- Knitted glove and making same. G. P. Bosworth. No. 1,428,939; Sept. 12.
- Knitted glove and making same. F. E. Jones. No. 1,413,537; Apr. 18.
- Knitted hosiery. A. Landry. No. 1,413,337; Apr. 18.
- Knitted rib fabric. H. T. Ballard. No. 1,440,267; Dec. 26.
- Knitting device. R. J. Petermann. No. 1,418,967; June 6.
- Knitting instruments, Overthrow guard for. J. F. Wilcomb. No. 1,403,931; Jan. 17.
- Knitting lace work, Pattern mechanism for machine for. J. Eppler. No. 1,405,769; Feb. 7.
- Knitting machine. G. L. Ballard. No. 1,402,038; Jan. 3.
- Knitting machine. H. T. Ballard. No. 1,406,253; Feb. 14.
- Knitting machine. H. T. Ballard. No. 1,423,175; July 18.
- Knitting machine. H. T. Ballard. No. 1,424,274; Aug. 1.
- Knitting machine. G. P. Bosworth. No. 1,428,317; Sept. 5.
- Knitting machine. G. P. Bosworth. No. 1,433,172; Oct. 24.
- Knitting machine. P. H. Fryer. No. 1,416,186; May 16.
- Knitting machine. I. M. Kelley. No. 1,437,109; Nov. 28.
- Knitting machine. M. Laveen. No. 1,425,106; Aug. 8.
- Knitting machine. J. Lawson. No. 1,433,386; Oct. 24.
- Knitting machine. P. P. La Montagne. Nos. 1,435,713-16; Nov. 14.
- Knitting machine. J. S. Pecker. No. 1,435,176; Nov. 14.
- Knitting machine and method of knitting. E. E. Randall. No. 1,435,736; Nov. 14.
- Knitting-machine attachment. G. W. Wilson. No. 1,406,128; Feb. 7.
- Knitting machine, Circular. G. S. Weinerth. No. 1,406,514; Feb. 14.
- Knitting machine, Circular-rib. B. Hoffman. No. 1,433,454; Oct. 24.
- Knitting machine for producing zigzag stripes. H. T. Ballard. No. 1,440,266; Dec. 26.
- Knitting machine, Glove. G. P. Bosworth. No. 1,413,452; Apr. 18.
- Knitting machine, Glove. F. E. Jones. No. 1,428,332; Sept. 5.
- Knitting-machine latch needle. F. W. Corey. No. 1,433,123; Oct. 24.
- Knitting-machine needle. J. C. Egly. No. 1,415,322; May 9.
- Knitting-machine needle. E. M. Witherell. No. 1,418,345; June 6.
- Knitting-machine needle and making same. F. W. Corey. No. 1,425,239; Aug. 8.
- Knitting-machine-needle jack. P. Egan. No. 1,434,108; Oct. 31.
- Knitting-machine-needle-knocking-over means. E. E. Preston. No. 1,436,529; Nov. 21.
- Knitting machine, Split-work. A. Landry. No. 1,415,583; May 9.
- Knitting machine, Spring-needle. G. P. Bosworth. No. 1,416,257; May 16.
- Knitting machine, Warp. R. K. Boadwee. No. 1,439,999; Dec. 26.
- Knitting machine, Warp. J. S. Pecker. No. 1,440,238; Dec. 26.
- Knitting machines, Attachment for fast-warp. J. C. Markman. No. 1,431,828; Oct. 10.
- Knitting machines, Automatic stop for. J. G. Carlson. No. 1,414,546; May 2.
- Knitting machines, Automatic stitch-controlling means for. O. F. Oakes. No. 1,430,836; Oct. 3.
- Knitting machines, Automatic tension-controlling means for. J. Lawson. No. 1,424,025; July 25.

Alphabetical list of inventions—Continued.

- Knitting machines, Cam mechanism for. E. A. Hirmer. No. 1,411,355; Apr. 4.
- Knitting machines, Cam mechanism for. K. Howie and W. O. Taylor. No. 1,424,725; Aug. 1.
- Knitting machines, Electrical stop motion for. E. S. Hine-line. No. 1,417,914; May 30.
- Knitting machines, Fancy-knitting attachment for. L. Tucka. No. 1,427,983; Sept. 5.
- Knitting machines, Let-off mechanism for. H. T. Ballard. No. 1,435,948; Oct. 24.
- Knitting machines, Loop-regulating mechanism for. M. Zwicky. No. 1,417,289; May 23.
- Knitting machines, Needle cylinder for. H. T. Ballard. No. 1,406,254; Feb. 14.
- Knitting machines, Needle-pressing means for. K. Howie. No. 1,407,684; Feb. 21.
- Knitting machines, Pattern-controlled knock-off means for the stop motions of. R. A. Lukens. No. 1,403,332; Jan. 10.
- Knitting machines, Selvage-reinforcing attachment for full-fashioned. M. Zwicky. No. 1,417,290; May 23.
- Knitting machines, Sinkers-cam positioner for. F. E. Jones. No. 1,413,334; Apr. 18.
- Knitting machines, Sinkers wheel for. W. T. Barratt. No. 1,435,196; Nov. 14.
- Knitting machines, Splicing mechanism for circular. G. P. Bosworth and E. M. Gunning. No. 1,402,394; Jan. 3.
- Knitting machines, Stop motion for. J. Schutz. No. 1,414,218; Apr. 25.
- Knitting machines, Stop motion for circular. A. Z. Hall and W. A. Hughes. No. 1,434,950; Nov. 7.
- Knitting machines, Striping mechanism for. F. W. Robinson. No. 1,428,398; Sept. 5.
- Knitting machines, Thread-carrier stop mechanism for full-fashioned. M. Zwicky. No. 1,402,033; Jan. 3.
- Knitting machines, Transferring webs to. M. C. Miller. No. 1,434,718; Nov. 7.
- Knitting machines, Tucking and drop-stitch mechanism for. F. W. Robinson. No. 1,402,379; Jan. 3.
- Knitting machines, Tucking attachment for. H. E. Katzenmoyer. No. 1,404,124; Jan. 17.
- Knitting machines, Tucking mechanism for. F. W. Robinson. No. 1,425,288; Aug. 8.
- Knitting machines, Yarn control for. W. P. Drumbeller. No. 1,420,530; June 20.
- Knitting machines, Yarn-holding device for. A. E. Page. No. 1,436,521; Nov. 21.
- Knitting machines, Yarn-moistening attachment for. B. J. Faucette. No. 1,428,021; Sept. 5.
- Knitting machines, Yarn stand for. E. M. Witherell. No. 1,428,573; Sept. 12.
- Knitting mechanism and knitting gores and the like. F. E. Jones. No. 1,430,814; Oct. 3.
- Knitting, Sinkers mechanism for forming openwork. E. M. Witherell. No. 1,413,951; Apr. 25.
- Knobs, Making. C. P. Swick and F. O. Krantz. No. 1,407,960; Feb. 28.
- Knockdown box. L. Frankenfeld. No. 1,436,163; Nov. 21.
- Knockdown box. J. L. Kolbe. No. 1,432,563; Oct. 17.
- Knockdown structure. C. H. Rasmussen. No. 1,437,195; Nov. 28.
- Knockdown structures, Assembling devices for locking together. C. H. Smith. No. 1,403,981; Jan. 17.
- Knockdown table. J. D. Adams. No. 1,422,246; July 11.
- Knotters, Knives for self-binder. M. M. Arndt. No. 1,414,684; May 2.
- Knuckle-joint connection. F. F. Couch. No. 1,427,361; Aug. 29.
- Knuckle-joint connection. W. Jones. No. 1,427,392; Aug. 29.
- Knurling tool. F. A. Reed. No. 1,414,668; May 2.
- Knurling tool, Self-opening. E. Bach. No. 1,422,649; July 11.
- L's, Making return. E. E. Slick. No. 1,426,324; Aug. 15.
- L's, Making return. E. E. Slick. No. 1,430,856; Oct. 3.
- Label. J. P. Connell. No. 1,406,541; Feb. 14.
- Label. J. E. Meredith. No. 1,414,144; Apr. 25.
- Label. T. A. Reilly. No. 1,414,830; May 2.
- Label-applying machine. E. H. Taylor. No. 1,403,720; Jan. 17.
- Label for carriers, Removable. C. R. Dumble. No. 1,428,279; Sept. 5.
- Label holder. F. F. Seidts. No. 1,433,420; Oct. 24.
- Label, Nursery. G. I. Colburn. No. 1,421,674; July 4.
- Label or stamp applying apparatus. M. Fogde and L. P. Southwick. No. 1,435,458; Nov. 14.
- Label-pasting machine. A. Scholin. No. 1,417,634; May 30.
- Labeling cylindrical packages, Machine for. L. Pierce. No. 1,434,748; Nov. 7.
- Labeling device. H. O. Benton. No. 1,439,397; Dec. 19.
- Labeling machine. E. D. Anderson and C. Beckmann. No. 1,439,052; Dec. 19.
- Labeling machine. H. Carle. No. 1,405,755; Feb. 7.
- Labeling machine. S. Cooper. No. 1,433,874; Oct. 31.
- Labeling machine. E. Donaldson. No. 1,419,546; June 13.
- Labeling machine. E. W. Durke and C. Alexanderson. No. 1,405,190; Jan. 31.
- Labeling machine. J. Peterson. No. 1,433,909; Oct. 31.
- Labeling machine. J. D. Smith. No. 1,402,262; Jan. 3.
- Labeling machine. C. S. Weeks. No. 1,425,351; Aug. 8.
- Labeling machine, Bread-. J. V. Sultzman. No. 1,406,538; Feb. 14.
- Labeling machine, Round-package-. A. A. Adamson. No. 1,435,680; Nov. 14.
- Labeling mechanism. J. A. Olson and J. E. Williamson. No. 1,418,455; June 6.
- Labeling, wrapping, or the like, Apparatus for. O. L. Stevens. No. 1,410,845; Mar. 28.
- Laboratory table, Sectional. T. Lidberg. No. 1,435,015; Nov. 7.
- Lace-braiding machine. E. Türck and E. Bösebeck. No. 1,418,521; June 6.
- Lace fastener. J. F. Paradis. No. 1,428,493; Sept. 5.
- Lace-locking means for articles of personal wear. E. J. Triay, jr. No. 1,434,723; Nov. 7.
- Lace-machine carriages, Threading board for. D. Blydenburgh. No. 1,410,051; Mar. 21.
- Lace machine, Twist-. W. Coombes. No. 1,418,130; May 30.
- Laces, Adjustable tip for corset and shoe. I. B. Ross. No. 1,420,219; June 20.
- Laces, Adjustable tip for shoe and corset. I. B. Ross. No. 1,411,746; Apr. 4.
- Laces, Forming and affixing tips to corset and shoe. S. Norden. No. 1,412,086; Apr. 11.
- Laces, Metal tip for shoe. R. M. Mikesell. No. 1,414,701; May 2.
- Lacing and unlacing device. J. B. Miller. No. 1,435,410; Nov. 14.
- Lacing, Apparel. O. Hobson. No. 1,416,203; May 16.
- Lacing device. G. W. Paine. No. 1,412,486; Apr. 11.
- Lacing device, Shoe-. P. M. Nelson. No. 1,421,291; June 27.
- Lacing hook. S. Jorundson. No. 1,439,472; Dec. 19.
- Lacing hook. B. P. Sutherland. No. 1,413,629; Apr. 25.
- Lacing hooks, Machine for inserting. W. Ochs. No. 1,429,965; Sept. 26.
- Lacing machine. H. E. Enslin. No. 1,429,414; Sept. 19.
- Lacing tips, Die for. P. Vorsteher. No. 1,411,461; Apr. 4.
- Lacing tool. W. P. Whitley. No. 1,406,793; Feb. 14.
- Lacquer, Drying Japanese. Y. Shibata and Y. Nishizawa. No. 1,429,542; Sept. 19.
- Ladder. J. D. and W. R. Anderson. No. 1,436,138; Nov. 21.
- Ladder. H. H. Brann and G. H. Tenbrook. No. 1,430,281; Sept. 26.
- Ladder. F. J. Bryant. No. 1,406,972; Feb. 21.
- Ladder. C. D. Harmon. No. 1,428,370; Sept. 5.
- Ladder. S. C. Hoen. No. 1,412,179; Apr. 11.
- Ladder. W. R. Reed. No. 1,435,420; Nov. 14.
- Ladder. J. A. Taylor. No. 1,437,691; Dec. 5.
- Ladder, Aircraft. K. Stahl. No. 1,439,030; Dec. 19.
- Ladder and manufacturing same. W. A. Bilger and A. C. Walker. No. 1,422,654; July 11.
- Ladder attachment. C. M. Perrier. No. 1,414,893; May 2.
- Ladder attachment. J. Schaaf and W. Tomaskoff. No. 1,433,236; Oct. 24.
- Ladder attachment. F. Siemann and E. J. Cuppage. No. 1,435,988; Nov. 21.
- Ladder, Coal. W. H. Towne, O. M. Thjomoe, and W. B. Mercer. No. 1,480,659; Mar. 7.
- Ladder construction. L. H. Badger. No. 1,421,372; July 4.
- Ladder construction, Rope. R. D. Nileon. No. 1,424,115; July 25.
- Ladder extension foot. L. M. Miller. No. 1,419,748; June 13.
- Ladder foot. F. J. Rynerson. No. 1,417,353; May 23.
- Ladder-making machine. P. Broman. No. 1,426,255; Aug. 15.
- Ladder, Orchard. H. A. Thompson. No. 1,438,411; Dec. 12.
- Ladder platform and roof jack. C. J. and U. J. Mohr. No. 1,423,725; July 25.
- Ladder, Roof. H. W. Hughes. No. 1,427,294; Aug. 29.
- Ladder rungs, Foot support for engaging. L. I. Young. No. 1,437,376; Nov. 28.
- Ladder shoe. A. Waney. No. 1,431,068; Oct. 3.
- Ladder, Sidehill orchard. W. and M. H. Paterson. No. 1,424,934; Aug. 8.
- Ladder, Steel scaffolding. F. Brandt. No. 1,437,088; Nov. 28.
- Ladder, Store-service. S. B. Martin. No. 1,432,116; Oct. 17.
- Ladders, Brake for rolling. H. F. Barnes. No. 1,431,921; Oct. 17.
- Ladders, Supporting foot for. F. Hubbard. No. 1,436,804; Nov. 28.
- Ladle-nozzle-protecting device. J. E. McCullough. No. 1,406,746; Feb. 14.
- Lake and preparing same. G. W. Acheson. No. 1,431,081; Oct. 3.
- Lambrequin. J. L. Cayer and F. Gersdorff. No. 1,405,280; Jan. 31.
- Laminated body, Composite. W. H. Kempton. No. 1,414,420; May 2.
- Laminated composite wheel. H. N. Atwood and G. B. Bains. No. 1,422,813; July 18.
- Laminated fabric. M. Hirschfeld. No. 1,405,511; Feb. 7.
- Laminated fiber product and making same. J. M. Taylor. No. 1,418,891; June 6.
- Laminated structure and producing same, Composite. H. N. Atwood and G. B. Bains. No. 1,403,142; Jan. 10.
- Laminated structures, Producing composite. H. N. Atwood and G. B. Bains. No. 1,403,143; Jan. 10.

- Lamp. J. W. Brown. No. 1,413,962; Apr. 25.
 Lamp. J. Cathrill. No. 1,403,147; Jan. 10.
 Lamp. A. J. Christmas. No. 1,421,406; July 4.
 Lamp. H. A. Douglas. No. 1,415,087; May 9.
 Lamp. E. A. Hawthorne. No. 1,402,352; Jan. 3.
 Lamp. E. A. Hawthorne. No. 1,415,555; May 9.
 Lamp. E. A. Hawthorne. No. 1,427,291; Aug. 29.
 Lamp. L. C. Hill. No. 1,434,341; Oct. 31.
 Lamp. S. O. Hoffman. No. 1,425,967; Aug. 15.
 Lamp. H. J. Johnson. No. 1,408,513; Mar. 7.
 Lamp. A. A. Ketchum. No. 1,423,433; July 18.
 Lamp. E. A. Kuen. No. 1,419,062; June 6.
 Lamp. E. Lloyd and E. W. Lowry. No. 1,403,089; Jan. 10.
 Lamp. N. Macneale. No. 1,413,177; Apr. 18.
 Lamp. N. Macneale. No. 1,414,518; May 2.
 Lamp. G. H. Rolfes. No. 1,418,832; June 6.
 Lamp. H. R. Saxon. No. 1,433,972; Oct. 31.
 Lamp. W. L. Stewart. No. 1,435,427; Nov. 14.
 Lamp. Acetylene. W. J. Frisbie. No. 1,407,141; Feb. 21.
 Lamp. Acetylene. W. J. Frisbie. Nos. 1,424,463-4; Aug. 1.
 Lamp. Acetylene. W. J. Frisbie. No. 1,431,447; Oct. 10.
 Lamp. Acetylene miner's. C. H. Neussis. No. 1,420,133; June 20.
 Lamp and making bases therefor. G. H. Rolfes. No. 1,427,126; Aug. 29.
 Lamp and match box, Combined. F. C. Williams. No. 1,403,278; Jan. 10.
 Lamp and mirror, Combination. W. Leuckert. No. 1,412,690; Apr. 11.
 Lamp and phonograph, Combined. A. J. Burns. No. 1,438,631; Dec. 12.
 Lamp and similar article. Tipless incandescent. L. E. Mitchell and A. J. White. No. 1,423,956; July 25.
 Lamp and starting same, Inclosed-arc. E. Friedrich. No. 1,422,553; July 11.
 Lamp appliance, Therapeutic vapor-. F. F. Burdick and F. A. Anderson. No. 1,402,396; Jan. 3.
 Lamp attachment. A. A. Cobb. No. 1,418,128; May 30.
 Lamp attachment. S. H. Wilson. No. 1,408,328; Feb. 28.
 Lamp, Automobile. F. E. Gregory. No. 1,426,181; Aug. 15.
 Lamp, Automobile signal. W. F. Potter. No. 1,435,080; Nov. 7.
 Lamp, Base for incandescent. F. W. Lyle. No. 1,429,602; Sept. 19.
 Lamp-base exterior. O. J. Swanson. No. 1,414,315; Apr. 25.
 Lamp, Battery hand. E. Alschuler. Nos. 1,404,258-9; Jan. 24.
 Lamp, Battery hand. E. Alschuler. No. 1,436,226; Nov. 21.
 Lamp, Battery hand. C. F. Burgess. No. 1,403,538; Jan. 17.
 Lamp, Battery hand. F. G. Stimson. No. 1,433,570; Oct. 31.
 Lamp, Battery-testing. C. L. Maritzen. No. 1,415,254; May 9.
 Lamp, Berth. T. A. Legge. No. 1,404,980; Jan. 31.
 Lampblack, Making. W. H. Frost. No. 1,438,032; Dec. 5.
 Lampblack preparation. W. K. Lewis. No. 1,418,811; June 6.
 Lamp box. C. de F. Smith. No. 1,402,100; Jan. 3.
 Lamp bracket, Adjustable. R. G. Archer, sr., and R. G. Archer, jr. No. 1,438,806; Dec. 12.
 Lamp bracket for bicycles. C. W. Hambrock. No. 1,427,532; Aug. 29.
 Lamp bulbs and other vacuum tubes. Copper conductor for electric. T. Yania. No. 1,417,287; May 23.
 Lamp bulbs, Manufacture of hollow glass bodies particularly for electric glow-. E. Frank. No. 1,420,996; June 27.
 Lamp-burner tip, Acetylene-. L. E. Polhemus. No. 1,403,915; Jan. 17.
 Lamp casing. J. A. Topping. No. 1,403,924; Jan. 17.
 Lamp cleaner, Carbide-. R. Pearce. No. 1,432,255; Oct. 17.
 Lamp, Clock. C. E. Dressler. No. 1,439,075; Dec. 19.
 Lamp-cock guard. C. W. Trulock. No. 1,414,906; May 2.
 Lamp construction. C. L. De Martin and H. C. Foster. No. 1,403,672; Jan. 17.
 Lamp cover, Automobile. H. J. Calise. No. 1,409,666; Mar. 14.
 Lamp, Daylight. N. Laug. No. 1,426,395; Aug. 22.
 Lamp deflector. E. Morris. No. 1,438,390; Dec. 12.
 Lamp device, Dirigible automobile. C. E. Kistner. No. 1,431,008; Oct. 3.
 Lamp dimmer. C. W. Eisele. No. 1,426,162; Aug. 15.
 Lamp dimmer, Vehicle. G. S. Ressler. No. 1,426,774; Aug. 22.
 Lamp, Electric. A. E. Case. No. 1,428,755; Sept. 12.
 Lamp, Electric. L. C. Kuehner. No. 1,416,096; May 16.
 Lamp, Electric. E. G. Mascarenhas. No. 1,421,276; June 27.
 Lamp, Electric. R. Swimmer. No. 1,430,860; Oct. 3.
 Lamp, Electric arc. J. A. Heany. Nos. 1,403,078-9; Jan. 10.
 Lamp, Electric-arc. W. Wenderhold. No. 1,431,202; Oct. 10.
 Lamp, Electric flash. M. Goodfellow. No. 1,404,362; Jan. 24.
 Lamp, Electric flower. H. L. Lansing and J. R. Kohls. No. 1,419,152; June 13.
 Lamp, Electric pocket. A. Luzy. No. 1,440,021; Dec. 26.
 Lamp, Electric pocket. O. Pletscher. No. 1,403,107; Jan. 10.
 Lamp, Electric pocket. A. Vogt, geb. Szubert. No. 1,420,167; June 20.
 Lamp, Electric therapeutic. A. Papini. No. 1,402,374; Jan. 3.
 Lamp, Electrical. J. A. Clifford. No. 1,405,287; Jan. 31.
 Lamp extinguisher. T. H. B. Howard. No. 1,422,059; July 4.
 Lamp, Fender. H. J. Berringer. No. 1,422,528; July 11.
 Lamp fitting. E. T. R. Murray. No. 1,407,473; Feb. 21.
 Lamp, Flash. L. M. Evans and G. W. Steinmann. No. 1,406,452; Feb. 14.
 Lamp, Flash. L. Z. Fernández. No. 1,406,832; Feb. 14.
 Lamp, Flash. F. W. Wakefield. No. 1,408,664; Mar. 7.
 Lamp, Floor. E. O. Goldsmith. No. 1,433,370; Oct. 24.
 Lamp-focusing apparatus. E. G. Weston. No. 1,412,380; Apr. 11.
 Lamp for automobiles and the like, Spot. S. H. Thomson. No. 1,426,023; Aug. 15.
 Lamp for incubators. C. A. Penny. No. 1,433,645; Oct. 31.
 Lamp for internal-combustion engines, Starting. H. Brooks. No. 1,421,158; June 27.
 Lamp for liquid fuels, Incandescent. A. Kornfeld. No. 1,438,314; Dec. 12.
 Lamp for projectors, Concentrated flaming-arc. P. R. Bassett. No. 1,428,510; Sept. 5.
 Lamp for vehicles and other purposes. Z. E. Camelinat. No. 1,440,054; Dec. 26.
 Lamp for vehicles, Driving. D. C. Sharp and W. R. Diehl. No. 1,419,949; June 20.
 Lamp gauge. R. Beman. No. 1,424,067; July 25.
 Lamp-globe protector. H. C. Groh. No. 1,404,115; Jan. 17.
 Lamp guard. L. W. Horne. No. 1,432,026; Oct. 17.
 Lamp guard, Autoclamping. W. G. Wolfe. No. 1,410,150; Mar. 21.
 Lamp holder. C. T. Harned. No. 1,413,530; Apr. 18.
 Lamp holder, Magnetic. H. C. Jenkins. No. 1,405,221; Jan. 31.
 Lamp holder, Portable and adjustable. R. T. Peat. No. 1,403,863; Jan. 17.
 Lamp, Incandescent. F. A. Feldkamp. No. 1,433,807; Oct. 31.
 Lamp, Incandescent. P. E. Hohl. No. 1,439,471; Dec. 19.
 Lamp, Incandescent electric. W. J. Cameron. No. 1,433,982; Oct. 31.
 Lamp, Incandescent electric. J. A. Heany. No. 1,406,645; Feb. 14.
 Lamp, Incandescent electric. J. A. Heany. No. 1,431,158; Oct. 10.
 Lamp, Indicator. E. E. Ziefner. No. 1,426,240; Aug. 15.
 Lamp, Instrument-board. T. J. Kerwin. No. 1,429,884; Sept. 19.
 Lamp, Instrument-board. T. J. Kerwin. No. 1,434,956; Nov. 7.
 Lamp lock, Electric-. H. E. Williams. No. 1,427,883; Sept. 5.
 Lamp, Metallic filament. H. J. Jaeger. No. 1,436,807; Nov. 28.
 Lamp, Miner's. P. Miglio. No. 1,430,247; Sept. 26.
 Lamp, Miner's electric safety. A. P. Ford. No. 1,406,359; Feb. 14.
 Lamp-mounting means, Automobile. W. J. Polley. No. 1,437,355; Nov. 28.
 Lamp, Multiple-filament incandescent. L. Cammen. No. 1,419,816; June 13.
 Lamp, Oil. W. W. Webb. No. 1,417,004; May 23.
 Lamp, Parlor floor. J. Klein. No. 1,431,670; Oct. 10.
 Lamp, Photographer's. H. J. Moeckel. No. 1,430,827; Oct. 3.
 Lamp, Portable. J. A. Amos and E. Wanamaker. No. 1,435,133; Nov. 7.
 Lamp, Portable. W. T. Barnum. No. 1,412,036; Apr. 11.
 Lamp, Portable. G. F. Basan. No. 1,403,378; Jan. 10.
 Lamp, Portable. W. D. Kahn. No. 1,434,780; Nov. 7.
 Lamp, Portable. W. H. Thorpe. No. 1,432,429; Oct. 17.
 Lamp, Portable electric. A. E. Case. No. 1,430,939; Oct. 3.
 Lamp, Portable electric. C. H. Bissell. No. 1,426,707; Aug. 22.
 Lamp, Portable electric. P. J. L'Evesque. No. 1,432,876; Oct. 24.
 Lamp, Portable electric. W. A. Harvey. No. 1,438,826; Dec. 12.
 Lamp, Portable electric. J. J. Sullivan. No. 1,419,327; June 13.
 Lamp-position controller. -W. S. Nathan. No. 1,416,376; May 16.
 Lamp, Poultry. C. A. Sutliff. No. 1,411,758; Apr. 4.
 Lamp, Projection. H. R. Evans. No. 1,436,308; Nov. 21.
 Lamp, Projection. M. I. Schanberg. No. 1,411,810; Apr. 4.
 Lamp, Reflecting. H. A. Douglas. No. 1,402,844; Jan. 10.
 Lamp, Reflector. A. C. Wood. No. 1,417,123; May 23.
 Lamp ring. W. A. Bell. No. 1,422,525; July 11.
 Lamp ring. E. O. Seitz. No. 1,434,507; Nov. 7.
 Lamp, Self-extinguishing. W. J. Brass. No. 1,435,049; Nov. 7.
 Lamp shade. J. M. Crucet. No. 1,421,415; July 4.
 Lamp shade. V. W. Darling. No. 1,413,520; Apr. 18.
 Lamp shade. M. Greitzer. No. 1,423,319; July 18.

Alphabetical list of inventions—Continued.

- Lamp shade. K. Kawaguchi. No. 1,431,005; Oct. 3.
 Lamp shade. G. H. Smith. No. 1,404,663; Jan. 24.
 Lamp shade and making. A. Ziska, Jr. No. 1,415,136; May 9.
 Lamp-shade holder. C. C. Stevens. No. 1,404,066; Jan. 17.
 Lamp-shade-tilting device. A. S. Cubitt. No. 1,430,156; Sept. 26.
 Lamp, Signal. A. C. Blades. No. 1,418,615; June 6.
 Lamp, Signal. C. A. Christofferson. No. 1,422,668; July 11.
 Lamp, Signal. W. F. Cummings. No. 1,437,835; Dec. 5.
 Lamp, Signal. E. S. Robinson. No. 1,403,567; Jan. 17.
 Lamp, Signal. M. J. Strasberger. No. 1,435,754; Nov. 14.
 Lamp socket. D. E. Bown. No. 1,421,122; June 27.
 Lamp socket. W. M. Carter. No. 1,416,607; May 16.
 Lamp-socket connection. H. H. Ashinger. No. 1,402,999; Jan. 10.
 Lamp sockets, Housing and switch-operating means for. C. H. Bissell. No. 1,408,855; Mar. 7.
 Lamp sockets, Shade holder for threaded electric. G. A. Boomer. No. 1,426,951; Aug. 22.
 Lamp, Spot. E. G. K. Anderson. (Reissue.) No. 15,437; Aug. 29.
 Lamp, Spot. H. P. Thompson. No. 1,432,308; Oct. 17.
 Lamp, Spotlight. E. A. Kuen. No. 1,438,535; Dec. 12.
 Lamp stand. E. Herbeck. No. 1,427,462; Aug. 29.
 Lamp structure, Water and air cooled. F. A. Anderson. No. 1,435,192; Nov. 14.
 Lamp support. J. Berge. No. 1,420,075; June 20.
 Lamp support. J. Morgan. No. 1,406,751; Feb. 14.
 Lamp support. W. C. Neahr. No. 1,430,101; Sept. 26.
 Lamp switch, Battery hand-. A. P. Paine. No. 1,437,476; Dec. 5.
 Lamp, Switchboard. J. M. Brown. No. 1,415,984; May 16.
 Lamp switch, Hand-. G. D. Gallagher. No. 1,436,340; Nov. 21.
 Lamp switch, Electric-. E. C. Leachman. No. 1,423,228; July 18.
 Lamp, Table. S. J. Zelazo. No. 1,419,598; June 13.
 Lamp tester, Incandescent. J. Graves. No. 1,411,430; Apr. 4.
 Lamp, Theatrical. F. Mitchell. No. 1,417,935; May 30.
 Lamp, Therapeutic. P. E. Johnson. No. 1,403,119; Jan. 10.
 Lamp, Therapy. F. F. Burdick. No. 1,430,354; Sept. 26.
 Lamp-tilting device. H. H. Kunze. No. 1,410,762; Mar. 28.
 Lamp tool, Miner's. H. W. Hoff. No. 1,412,745; Apr. 11.
 Lamp, Vapor. C. A. Hoff and J. C. Steese. No. 1,414,466; May 2.
 Lamp vaporizer. L. Gudeman. No. 1,403,548; Jan. 17.
 Lamp, Vehicle. H. G. FitzGerald. No. 1,425,190; Aug. 8.
 Lamp, Vehicle. H. Peyton. No. 1,420,741; June 27.
 Lamp, Vehicle. E. S. Preston. No. 1,427,631; Aug. 29.
 Lamp, Water-cooled. F. A. Anderson. No. 1,435,193; Nov. 14.
 Lamp with mechanical electric generator, Electric pocket. A. Luzu. No. 1,429,601; Sept. 19.
 Lamp wrapper, Incandescent-. W. H. Fairchild. No. 1,428,019; Sept. 5.
 Lamp wrench. L. F. Despres. No. 1,404,349; Jan. 24.
 Lamps and accessories, Gauge for electric. H. D'Olier, Jr. No. 1,427,586; Aug. 29.
 Lamps and the like, Filament for incandescent electric. F. S. Goucher. No. 1,436,717; Nov. 28.
 Lamps, Anode for luminous arc. C. A. B. Halvorson, Jr. No. 1,422,439; July 11.
 Lamps, Apparatus for lighting and extinguishing gas burners of street. P. Bernard. No. 1,422,249; July 11.
 Lamps, Control mechanism for. E. M. Olson. No. 1,428,974; Sept. 12.
 Lamps, Controller for apparatus used in utilizing mercury arc. C. T. Evans. No. 1,437,640; Dec. 5.
 Lamps, Coupling for portable electric. H. Maras. No. 1,412,127; Apr. 11.
 Lamps, Deflecting device for automobile. A. Angelo. No. 1,417,128; May 23.
 Lamps, Delayed cut-off arrangement for mantle gas. R. D. Smith. No. 1,415,063; May 9.
 Lamps, Dimmer and sign attachment for. T. M. Atkinson. No. 1,435,952; Nov. 21.
 Lamps, Dirigible mounting for vehicle. F. M. Wiseley. No. 1,433,585; Oct. 31.
 Lamps, Display stand for incandescent electric. W. C. Neahr. No. 1,408,128; Feb. 28.
 Lamps, Economizer for inclosed-arc. T. L. Carbone. No. 1,404,341; Jan. 24.
 Lamps, Electric resistance for regulating the candlepower of electric incandescent. G. J. Bjerre. No. 1,428,834; Sept. 12.
 Lamps, Electric socket device for vehicle. F. G. Whittington. No. 1,411,947; Apr. 4.
 Lamps, Focusing device for electric. A. S. Lyhne. No. 1,408,528; Mar. 7.
 Lamps, Generator for electric. S. Rosengart. No. 1,416,513; May 16.
 Lamps, Glare-preventing attachment for projector. H. E. Ross. No. 1,409,413; Mar. 14.
 Lamps, Glass fastening for automobile. E. A. Kuen. No. 1,414,088; Apr. 25.
 Lamps, Holder for electric. J. F. King. No. 1,423,119; July 18.
 Lamps, Housing for electric incandescent. F. C. Smith and R. Stoffel. No. 1,431,988; Oct. 17.
 Lamps, Leading-in wires for incandescent electric. F. Hoge. No. 1,422,443; July 11.
 Lamps, Light director and reflector for automobile. P. L. Caldwell. No. 1,403,840; Jan. 17.
 Lamps, Manufacture of incandescent electric. F. Harrison. No. 1,416,197; May 16.
 Lamps, Match-scratching attachment for. E. A. Miller. No. 1,414,995; May 2.
 Lamps, Means for positioning. E. A. Kuen. No. 1,438,534; Dec. 12.
 Lamps, Nonglaring device for. F. J. Dole. No. 1,429,067; Sept. 12.
 Lamps, Process and apparatus for sealing. R. Le Rosignol. No. 1,430,118; Sept. 26.
 Lamps, Reel for portable electric. M. Dorion. No. 1,411,206; Mar. 28.
 Lamps, Reflector for Christmas-tree. B. H. Shapiro. No. 1,435,024; Nov. 7.
 Lamps, Renewal of the filaments in metal-filament electric. S. Coxon and W. A. Williams. No. 1,422,747; July 11.
 Lamps, Rheostat for electric. J. H. Wagenhorst. No. 1,434,172; Oct. 31.
 Lamps, Socket clamp for. H. C. Foster. No. 1,404,751; Jan. 31.
 Lamps, Tilting reflector for. S. F. Arbuckle. No. 1,424,793; Aug. 8.
 Lamps, Vehicular and other. W. T. Coulson. No. 1,420,524; June 20.
 Lamps, Weather protecting ring for street. W. G. Barclay. No. 1,427,344; Aug. 29.
 Land-care mechanism. F. H. Kerr. No. 1,428,242; Sept. 5.
 Land leveler. H. R. Lytle. No. 1,429,516; Sept. 19.
 Land leveler, Fluid-controlled. W. Adams. No. 1,435,575; Nov. 14.
 Lantern. J. C. Frostad. No. 1,424,293; Aug. 1.
 Lantern. W. S. Hamm. Nos. 1,415,634-5; May 9.
 Lantern. W. S. Hamm and F. A. Schuetz. No. 1,415,633; May 9.
 Lantern. G. Humber. No. 1,414,414; May 2.
 Lantern. M. H. Terry. No. 1,428,923; Sept. 12.
 Lantern. R. Thorne. No. 1,413,244; Apr. 18.
 Lantern attachment. E. F. Nassoiy and G. E. Johnson. No. 1,413,486; Apr. 18.
 Lantern construction. H. Barkschat. No. 1,421,058; June 27.
 Lantern construction. J. J. Hughes. No. 1,426,295; Aug. 15.
 Lantern, Electric. C. W. Conger. (Reissue.) No. 15,317; Mar. 28.
 Lantern, Electric. G. J. Hollander. No. 1,438,179; Dec. 12.
 Lantern, Electric. G. Humber. No. 1,414,415; May 2.
 Lantern, Electric. A. S. Lyhne. No. 1,432,348; Oct. 17.
 Lantern handle. J. W. Knoblock. No. 1,417,608; May 30.
 Lantern, Portable electric. A. D. Cardwell. No. 1,423,911; July 25.
 Lantern, Portable electric. C. S. Rhoads, jr. No. 1,432,907; Oct. 24.
 Lantern, Projector. W. L. Isbills. No. 1,429,244; Sept. 19.
 Lantern, Railway. P. Genesy. No. 1,410,671; Mar. 28.
 Lantern, Railway. E. D. Griffith. No. 1,429,074; Sept. 12.
 Lantern slides, Means for automatically displaying. P. E. Petherick. No. 1,402,791; Jan. 10.
 Lanterns, Bail holder for. G. H. Rolfes. No. 1,405,007; Jan. 31.
 Lanterns, Slide for projecting. F. W. Schmidt. No. 1,406,420; Feb. 14.
 Lap. L. S. Rasmussen and H. B. Carlson. No. 1,428,658; Sept. 12.
 Lapboard, Lunch or game. C. I. Bush. No. 1,436,859; Nov. 28.
 Lap, Expandable. R. S. Taylor. No. 1,428,126; Sept. 5.
 Lap-forming machine. A. E. Maynard and W. A. Gunning. No. 1,408,305; Feb. 28.
 Lapping machine. W. S. Becker. No. 1,421,659; July 4.
 Lapping machine. J. Y. Fields. No. 1,418,552; June 6.
 Lapping machine. F. A. Kershaw. No. 1,434,824; Nov. 7.
 Lapping machine. J. R. Ricketts. No. 1,420,751; June 27.
 Lapping mechanism. R. S. Smith and T. Hansen. No. 1,417,580; May 30.
 Lapping press. R. S. Smith and T. Hansen. No. 1,417,581; May 30.
 Lard, etc., Apparatus for cooling. C. S. Hardy. No. 1,405,584; Feb. 7.
 Lard, Device for rendering. W. C. Hollowell. No. 1,432,754; Oct. 24.
 Larder. A. A. Klein. No. 1,433,894; Oct. 31.
 Last. W. A. Krentler. No. 1,410,477; Mar. 21.
 Last. J. C. Schelter. No. 1,423,740; July 25.
 Last. W. C. Stewart. No. 1,432,217; Oct. 17.
 Last. W. Thierman. No. 1,414,316; Apr. 25.
 Last. L. B. Whipple. No. 1,407,050; Feb. 21.
 Last. M. W. White. No. 1,404,252; Jan. 24.
 Last, Adjustable. H. F. Crawford. No. 1,424,343; Aug. 1.
 Last for forming repair patches. J. Robertson, Jr. No. 1,409,582; Mar. 14.

Alphabetical list of inventions—Continued.

- Last-finishing machine. G. Clausung. No. 1,431,568; Oct. 10.
- Last lathe. F. S. Buck. No. 1,438,978; Dec. 19.
- Last-pulling machine. B. F. Mayo. No. 1,409,192; Mar. 14.
- Last, Self-locking. R. C. Webster. No. 1,426,428; Aug. 22.
- Last, Shoe. M. E. Kreidler. No. 1,410,324; Mar. 21.
- Last, Shoemaker's. J. C. Torchia. No. 1,413,636; Apr. 25.
- Last, Shoemaker's. H. E. Treat. No. 1,429,702; Sept. 19.
- Last, Reversible and adjustable metal cobbling shoe. G. M. Baker. No. 1,434,669; Nov. 7.
- Last, Sliding hinged. J. F. Breen. No. 1,407,723; Feb. 28.
- Lasting machine. C. F. Adams. No. 1,412,032; Apr. 11.
- Lasting machine. C. F. Adams. No. 1,413,697; Apr. 25.
- Lasting machine. M. Brock. No. 1,404,188; Jan. 24.
- Lasting machine. M. Brock. No. 1,417,493; May 30.
- Lasting machine. A. Perri. No. 1,420,572; June 20.
- Lasting machine. C. F. Pym. No. 1,413,613; Apr. 25.
- Lasting machine. M. M. Sørensen. No. 1,427,498; Aug. 29.
- Lasting mechanism. C. F. Pym. No. 1,413,614; Apr. 25.
- Lasts and machine used in such method, Turning. H. F. Loewer. No. 1,410,333; Mar. 21.
- Lasts, Machine for shaping uppers to. B. Jorgensen. No. 1,406,260; Feb. 14.
- Lasts, Machine for shaping uppers to. R. F. McFeely. No. 1,409,190; Mar. 14.
- Lasts, Mechanism for automatically positioning. L. E. Topham. No. 1,436,065; Nov. 21.
- Latch. J. N. Brown. No. 1,415,786; May 9.
- Latch. E. Crompton and C. L. Crooks. No. 1,419,230; June 13.
- Latch. S. P. Gehret. No. 1,415,871; May 16.
- Latch. J. D. Karle. No. 1,436,447; Nov. 21.
- Latch. T. J. MacKenzie, Jr. No. 1,412,363; Apr. 11.
- Latch. M. J. C. A. Maurer. No. 1,416,370; May 16.
- Latch. E. Ohnstrand. No. 1,407,884; Feb. 28.
- Latch. L. Ottinger. No. 1,436,050; Nov. 21.
- Latch. J. L. Pollock. No. 1,415,192; May 9.
- Latch. R. J. Roath. No. 1,403,638; Jan. 17.
- Latch. J. L. Seaver. No. 1,430,330; Sept. 26.
- Latch. T. A. Watts. No. 1,422,504; July 11.
- Latch. J. A. Whittaker. No. 1,427,991; Sept. 5.
- Latch, Auxiliary. W. N. Morse. No. 1,436,892; Nov. 28.
- Latch bolt. M. E. Daly. No. 1,431,571; Oct. 10.
- Latch cabinet. A. Claud-Mantie. No. 1,437,793; Dec. 5.
- Latch, Combination keyless night. J. Somora. No. 1,417,777; May 30.
- Latch-controlling mechanism. H. Lewis and C. H. Petty. No. 1,405,236; Jan. 31.
- Latch, Cylindrical mortise. J. E. Hjort. No. 1,414,019; Apr. 25.
- Latch device. O. H. Orendorff. No. 1,424,673; Aug. 1.
- Latch device, Door-. W. H. Appleby. No. 1,427,252; Aug. 29.
- Latch device for vehicle, Doors. K. Forbes. No. 1,417,239; May 23.
- Latch, Door. O. A. Anderson. No. 1,426,445; Aug. 22.
- Latch, Door. A. L. Brown. No. 1,435,581; Nov. 14.
- Latch, Door. C. Munzner. No. 1,416,495; May 16.
- Latch, Door. V. J. Williams. No. 1,439,348; Dec. 19.
- Latch, Gate. W. L. Weintz. No. 1,429,389; Sept. 19.
- Latching device. C. Aalborg. No. 1,432,433; Oct. 17.
- Latch, Mine-door. V. D. Reynolds. No. 1,432,258; Oct. 17.
- Latch, Farm-gate. H. H. and G. H. Berg. No. 1,403,732; Jan. 17.
- Latch for furnace doors. W. Schoch. No. 1,425,904; Aug. 15.
- Latch for motor-vehicle doors, Safety. G. L. Simpson. No. 1,410,841; Mar. 28.
- Latch for steering controllers, Safety. J. Hoffman. No. 1,421,475; July 4.
- Latch for vehicle doors. R. V. Kaimer and C. E. Ritter. No. 1,415,839; May 9.
- Latch, Gate. S. A. Rzakiewicz. No. 1,418,174; May 30.
- Latch, Gate. F. Strosnider. No. 1,411,129; Mar. 28.
- Latch, Gate. C. I. Terrill. No. 1,411,963; Apr. 4.
- Latch-operating means, Adjustable. E. L. Teich. No. 1,405,695; Feb. 7.
- Latch, Self-closing. M. W. Fischer. No. 1,417,815; May 30.
- Latch-tripping mechanism, Stop-. D. F. Lopley. No. 1,403,124; Jan. 10.
- Latch, Vehicle door. R. V. Kaimer. No. 1,411,107; Mar. 28.
- Latch, Window. J. Szalay. No. 1,424,048; July 25.
- Latch, Window-sash. B. Spielmann. No. 1,402,907; Jan. 10.
- Latches, Handle-attaching means for door. L. Ottinger. No. 1,411,581; Apr. 4.
- Latching hook. D. W. Davis. No. 1,420,912; June 27.
- Latching mechanism. C. Pearson. No. 1,424,936; Aug. 8.
- Latex, Process and apparatus for treating. C. E. Bradley and J. G. Coffin. No. 1,428,526; Sept. 12.
- Lath. W. D. Hicks. No. 1,430,080; Sept. 26.
- Lath board and making same. W. D. Hicks. No. 1,406,188; Feb. 14.
- Lath board, Making. G. H. Ellis. No. 1,437,503; Dec. 5.
- Lath, Building. A. P. White. No. 1,431,550; Oct. 10.
- Lath, Expanded wood. J. A. Waller. No. 1,427,246; Aug. 29.
- Lath, Machine for manufacturing metal. W. C. Weightman. No. 1,412,434; Apr. 11.
- Lath, Plastering. H. J. Mark. No. 1,408,217; Feb. 28.
- Lathing. H. E. Marks. No. 1,436,453; Nov. 21.
- Lathing, Producing ribbed expanded metal. C. W. Dickinson. No. 1,436,866; Nov. 28.
- Lathing structure. A. P. White. No. 1,402,028; Jan. 3.
- Lathe. W. Buttrum. No. 1,426,546; Aug. 22.
- Lathe. W. Dross. No. 1,433,605; Oct. 31.
- Lathe. A. Drummond. No. 1,402,582; Jan. 3.
- Lathe. A. Drummond. No. 1,415,228; May 9.
- Lathe. A. V. Carroll. No. 1,414,176; Apr. 25.
- Lathe. F. S. Flocter. No. 1,420,987; June 27.
- Lathe. N. F. Fretter. No. 1,408,997; Mar. 7.
- Lathe. G. Haumann. No. 1,417,521; May 30.
- Lathe. J. S. Lapp. No. 1,427,213; Aug. 29.
- Lathe. J. F. Robbin. No. 1,439,125; Dec. 19.
- Lathe. C. H. Schmidt and O. B. Norgren. No. 1,409,243; Mar. 14.
- Lathe. G. D. Sundstrand. No. 1,428,816; Sept. 12.
- Lathe attachment. C. C. Craley. No. 1,405,670; Feb. 7.
- Lathe attachment. J. V. Dille. No. 1,425,076; Aug. 22.
- Lathe attachment. R. Hervig. No. 1,432,247; Oct. 17.
- Lathe attachment. J. Waitch. No. 1,421,324; June 27.
- Lathe, Automatic turret. J. C. Potter. No. 1,433,033; Oct. 24.
- Lathe-bed construction. A. Weiss. No. 1,406,789; Feb. 14.
- Lathe body. A. Drummond. No. 1,415,227; May 9.
- Lathe, Boring. R. L. Hibbard. No. 1,425,202; Aug. 8.
- Lathe center. R. F. Lusk. No. 1,416,102; May 16.
- Lathe, Crank-shaft. H. Baerbalck. No. 1,431,919; Oct. 17.
- Lathe dog. A. M. Fraser. No. 1,419,452; June 13.
- Lathe dog. V. T. Julin. No. 1,425,862; Aug. 15.
- Lathe dog, Safety. G. T. Burrows. No. 1,409,334; Mar. 14.
- Lathe headstock. G. E. Greenleaf and C. F. Randolph. No. 1,422,098; July 11.
- Lathe, Last. F. S. Buck. No. 1,407,727; Feb. 28.
- Lathe, Last. L. B. Whipple. No. 1,407,728; Feb. 28.
- Lathe or milling-machine attachment. E. S. Bradford. No. 1,407,515; Feb. 21.
- Lathe, Propeller. L. B. Whipple. No. 1,425,563; Aug. 15.
- Lathe slide. A. Drummond. No. 1,415,226; May 9.
- Lathe-steadying device. H. C. Waterer. No. 1,419,786; June 13.
- Lathe, Strut. L. B. Whipple. No. 1,434,516; Nov. 7.
- Lathe tool. G. E. Madison. No. 1,405,605; Feb. 7.
- Lathe tool. E. J. Willis. No. 1,419,432; June 13.
- Lathe tool holder. P. V. Townsend. No. 1,418,992; June 6.
- Lathe-tool holder. W. O. Wille. No. 1,420,171; June 20.
- Lathe tool, Portable. C. A. de Giers. No. 1,407,015; Feb. 21.
- Lathe, Tube-wrapping. A. L. Chandler. No. 1,432,531; Oct. 17.
- Lathe turning tool. T. O. Martin. No. 1,414,520; May 2.
- Lathes, Abutment for the lead screws of. A. Drummond. No. 1,424,628; Aug. 1.
- Lathes, Angle-cutting guide for. G. A. Magnuson. No. 1,435,408; Nov. 14.
- Lathes, Apron mechanism for. A. H. Ingle and W. E. Ward. No. 1,404,027; Jan. 17.
- Lathes, Attachment for. S. C. Bliss. No. 1,401,954; Jan. 3.
- Lathes, Attachment for. T. E. Brown and J. N. Etheredge. No. 1,407,249; Feb. 21.
- Lathes, Centering gauge for. E. Novitzky. No. 1,414,483; May 2.
- Lathes, Change-speed wheel gear for. K. and A. H. Olsson. No. 1,420,939; June 27.
- Lathes, Cylinder-grinding attachment for. W. A. Jennings. No. 1,425,592; Aug. 15.
- Lathes, Cylinder-grinding attachment for. F. J. Robertson and W. S. Peterson. No. 1,413,061; Apr. 18.
- Lathes, Demountable headstock for. A. L. Ligon. No. 1,422,994; July 18.
- Lathes, Driving mechanism for wheel. J. K. Cullen. No. 1,424,754; Aug. 8.
- Lathes, Headstock for. P. Stoner. No. 1,428,190; Sept. 5.
- Lathes, Headstock of. A. Drummond. No. 1,424,629; Aug. 1.
- Lathes, Length-grading mechanism for copying. S. E. Boynton. No. 1,402,737; Jan. 10.
- Lathes, Milling and keyway-cutting attachment for. W. G. and C. Edwards. No. 1,405,909; Feb. 7.
- Lathes, Revolving cutter head for spoke-turning. H. Flick. No. 1,426,167; Aug. 15.
- Lathes, Rotatable tool holder for. J. C. Steiner. No. 1,425,804; Aug. 15.
- Lathes, shaping, planing, and other like machines, Tool holder for. R. Miller and S. C. Icke. No. 1,405,714; Feb. 7.
- Lathes, Slide rest of. A. Drummond. No. 1,426,365; Aug. 22.
- Lathes, Taper attachment for. W. Avery. No. 1,427,510; Aug. 29.
- Lathes, Taper-boring mechanism for. A. H. Ingle. No. 1,428,095; Sept. 5.
- Lathes, Thread-milling attachment for. J. R. Beckett. No. 1,414,853; May 2.

Alphabetical list of inventions—Continued.

- Lathes, Tool-grinding attachment for. M. G. Husted. No. 1,407,419; Feb. 21.
- Lathes, Tool slide of. A. Drummond. No. 1,402,581; Jan. 3.
- Laundering method and material. R. A. Phair. No. 1,435,332; Nov. 14.
- Laundering tub. R. Kowalczyk. No. 1,414,138; Apr. 25.
- Laundries, Handling groups of flat pieces in. W. S. and J. L. Williams. No. 1,406,516; Feb. 14.
- Laundry apparatus. F. L. Smith and H. P. Harris. No. 1,402,020; Jan. 3.
- Laundry assorting apparatus. R. W. Barrier. No. 1,405,964; Feb. 7.
- Laundry bundling, packing, and wrapping device. R. W. Barrier. No. 1,416,160; May 16.
- Laundry-counting device. J. G. Sibert. No. 1,413,295; Apr. 18.
- Laundry device. E. T. Baskin. No. 1,425,828; Aug. 15.
- Laundry drier. C. L. Braley. No. 1,431,213; Oct. 10.
- Laundry drier. C. L. Braley. Nos. 1,434,193-4; Oct. 31.
- Laundry irons, Thermostatic circuit closer for. A. E. Fitzgerald. No. 1,415,829; May 9.
- Laundry, Machine for marking articles sent to the. G. E. Mathiasen. No. 1,436,599; Nov. 21.
- Laundry machines, Driving mechanism for. F. J. Couch. No. 1,417,300; May 23.
- Laundry machines, Gear mechanism for. W. Bartholomew. No. 1,430,209; Sept. 26.
- Laundry marker. E. S. Mix. No. 1,409,391; Mar. 14.
- Laundry-marking machine. C. W. Canine. No. 1,435,378; Nov. 14.
- Laundry preparation. P. L. Mabrey. No. 1,435,541; Nov. 14.
- Laundry trays, etc., Stopper for. N. B. Le Duc. No. 1,403,423; Jan. 10.
- Laundry-tub cover. L. Hirschberg. No. 1,423,215; July 18.
- Lavatories, Faucet attachment for. J. F. Kelly. No. 1,424,251; Aug. 1.
- Lavatory. J. F. Kelly. No. 1,406,030; Feb. 7.
- Lavatory. J. F. Kelly. No. 1,424,250; Aug. 1.
- Lavatory. W. A. Rowe. No. 1,408,830; Mar. 7.
- Lavatory. H. W. Rubel. No. 1,403,348; Jan. 10.
- Lavatory fixture. W. B. Stratton. No. 1,417,583; May 30.
- Lawn cleaner. C. M. Chaffin. No. 1,417,032; May 23.
- Lawn edger. B. C. Gochenour. No. 1,422,693; July 11.
- Lawn-edge trimmer. C. W. Griffin. No. 1,410,247; Mar. 21.
- Lawn-edge trimmer. W. Lenehan. No. 1,428,696; Sept. 12.
- Lawn rake. C. F. Hamilton. No. 1,430,227; Sept. 26.
- Lawn sprinkler. N. H. Goodbar. No. 1,419,843; June 13.
- Lawn sprinkler. A. Williams. No. 1,418,763; June 6.
- Lay figure, model, or doll, Jointed. C. de Grasse, née Fould. No. 1,422,840; July 18.
- Lay-mark preventer. A. E. Ravenelle. No. 1,409,778; Mar. 14.
- Lead and zinc extraction. W. G. Waring. No. 1,430,270; Sept. 26.
- Lead blocks, Spar-tree protector and fastening device for high-. W. R. Allen and T. K. McRea. No. 1,423,292; July 18.
- Lead-cab-t-covering press. R. Poliakoff. No. 1,427,698; Aug. 29.
- Lead-coating process. R. J. Shoemaker. No. 1,405,167; Jan. 31.
- Lead-joint runner. J. A. Spencer. No. 1,420,586; June 20.
- Lead, Production of white. H. Gregory. No. 1,435,707; Nov. 14.
- Lead, Refining of. H. Harris. No. 1,418,148; May 30.
- Leaders, gears, and the like, Making. M. E. Fernald. No. 1,431,787; Oct. 10.
- Leading rack. F. H. Kinsman. No. 1,403,789; Jan. 17.
- Leading-in conductor. J. W. Radu. No. 1,426,771; Aug. 22.
- Leaf device, Loose-. J. Kahn. No. 1,438,378; Dec. 12.
- Leaf-spring connection. J. J. Rath. No. 1,423,255; July 18.
- Leaf-spring lubricant. C. T. Thompson. No. 1,410,967; Mar. 28.
- Leaf spring, Self-lubricating. W. H. Woodman. No. 1,427,840; Aug. 29.
- Leaf-upsetting device. C. R. Fargo. No. 1,405,993; Feb. 7.
- Leafed article. G. S. Lewis. No. 1,420,324; June 20.
- Leather and products thereof, Making artificial. C. E. Arnold. No. 1,408,061; Feb. 28.
- Leather, Apparatus for drying. C. A. Bechstein and E. E. Kornitz. No. 1,438,355; Dec. 12.
- Leather expander, Cup-. T. E. Drummond. No. 1,412,231; Apr. 11.
- Leather-fitting machine. E. B. Lyons. No. 1,404,399; Jan. 24.
- Leather, Gauging. M. H. Reymond. No. 1,437,683; Dec. 5.
- Leather, Making artificial. R. B. Respass. No. 1,416,064; May 16.
- Leather, Manufacturing synthetic. H. W. Morgan. No. 1,436,106; Nov. 21.
- Leather, Manufacturing synthetic colored. H. W. Morgan. No. 1,436,107; Nov. 21.
- Leather of all kinds and for oil tanning, Means for greasing. O. Röhm. No. 1,414,044; Apr. 25.
- Leather-polishing machine. C. Ruhe. No. 1,419,522; June 13.
- Leather, Preparation for treating. R. E. Tommerson. No. 1,407,449; Feb. 21.
- Leather press. I. Mitchell. No. 1,437,002; Nov. 28.
- Leather roller, Sole-. T. W. Berry. No. 1,438,689; Dec. 12.
- Leather roller surfaces, Composition for treatment of. M. J. Ferreira. No. 1,403,944; Jan. 17.
- Leather-splitting machine. J. A. Meyer. No. 1,410,703; Mar. 28.
- Leather-splitting machine. J. A. Meyer. No. 1,434,019; Oct. 31.
- Leather-stitching machines, Automatic presser foot mechanism for. C. F. Miller. No. 1,431,479; Oct. 10.
- Leather-stitching machines, Thread-measuring device for. C. F. Miller. No. 1,431,478; Oct. 10.
- Leather-straightening machine. J. B. Hadaway. No. 1,427,806; Sept. 5.
- Leather substitute. W. and W. L. King. No. 1,409,301; Mar. 14.
- Leather substitute, Making a. R. B. Respass. No. 1,411,376; Apr. 4.
- Leather, Treatment and utilization of scrap or waste. S. C. Lansdown and P. Magnus. No. 1,405,600; Feb. 7.
- Leather, Utilization of wastes or scraps of. M. Nakayama and K. Adachi. No. 1,402,085; Jan. 3.
- Leather-working machine. C. A. Sawyer, jr. No. 1,436,114; Nov. 21.
- Leather yarn and article, Making. W. M. Cavanaugh. No. 1,415,313; May 9.
- Leathers and skins, Tanning. H. Morin. No. 1,404,633; Jan. 24.
- Ledger and the like, Loose-leaf. J. S. King. No. 1,431,404; Oct. 10.
- Ledger back, Loose-leaf metal. J. Schade. No. 1,439,264; Dec. 19.
- Ledger, Loose-leaf. C. M. Jewell. No. 1,428,377; Sept. 5.
- Ledger sheet. J. A. B. Smith. No. 1,415,904; May 16.
- Ledger sheet. J. A. B. Smith. No. 1,416,239; May 16.
- Ledgers, Loose-leaf stand for. B. R. Dutcher. No. 1,403,393; Jan. 10.
- Leer and operating same, Rotating. J. Bailey. No. 1,416,595; May 16.
- Leer feeder. J. P. Mingle. No. 1,436,455; Nov. 21.
- Leer, feeder. R. W. Niver. No. 1,427,164; Aug. 29.
- Leer feeder. B. H. Purcell. No. 1,431,895; Oct. 10.
- Leer-operating mechanism. L. J. Pierce and W. Famariss. No. 1,431,682; Oct. 10.
- Leg, Artificial. A. Beurdeley. No. 1,407,369; Feb. 21.
- Leg, Artificial. O. H. Erickson. No. 1,405,191; Jan. 31.
- Leg block. S. Battaglia. No. 1,406,144; Feb. 7.
- Legs, Back check and controller for artificial. A. Forster. No. 1,415,329; May 9.
- Legs, Matrices for stump. J. F. Rowley. No. 1,404,896; Jan. 31.
- Legging. J. D. Cline. No. 1,440,340; Dec. 26.
- Legging. W. P. Manning. No. 1,424,207; Aug. 1.
- Legging. B. W. Nutt. No. 1,426,593; Aug. 22.
- Legging. M. Rosenwasser. No. 1,430,030; Sept. 26.
- Lemon squeezer. W. E. Gray. No. 1,422,196; July 11.
- Lens. O. Aslanian. No. 1,434,276; Oct. 31.
- Lens. T. W. Cooper. No. 1,425,452; Aug. 8.
- Lens. H. H. Marriott. No. 1,416,109; May 16.
- Lens. J. H. Old. No. 1,430,580; Oct. 3.
- Lens. E. D. Tillyer. No. 1,406,782; Feb. 14.
- Lens and making same, Trifocal. L. W. Bugbee. No. 1,427,192; Aug. 29.
- Lens and making the same, Multifocal. T. B. Drescher. No. 1,415,535; May 9.
- Lens and manufacturing same, Bifocal. H. J. Stead. No. 1,413,945; Apr. 25.
- Lens, Bifocal. L. W. Bugbee. No. 1,427,577; Aug. 29.
- Lens, Bifocal. H. J. Stead. No. 1,407,176; Feb. 21.
- Lens, Bifocal or multifocal. T. B. Drescher. No. 1,414,117; Apr. 25.
- Lens-blank holder. T. B. Drescher. No. 1,436,156; Nov. 21.
- Lens blanks, Edge-fusing ophthalmic-. A. J. Cross. No. 1,432,235; Oct. 17.
- Lens-block-molding machine. H. W. Hill. No. 1,433,818; Oct. 31.
- Lens-blocking machine. H. W. Hill. No. 1,415,560; May 9.
- Lens-cutting machine. L. Q. Presby. No. 1,417,468; May 23.
- Lens-cutting machine. O. Wittel. No. 1,406,798; Feb. 14.
- Lenses, Apparatus for grinding. E. J. Fink. No. 1,438,909; Dec. 12.
- Lenses, Indicia plate for. V. A. Quagliano. No. 1,426,770; Aug. 22.
- Lens grinding. G. S. Dey. No. 1,438,100; Dec. 5.
- Lens-grinding machine. L. W. Bugbee and R. L. Gordon. No. 1,439,063; Dec. 19.
- Lenses, Making bifocal. L. W. Bugbee. No. 1,410,367; Mar. 21.
- Lenses, Making bifocal. L. W. Bugbee. No. 1,416,444; May 16.
- Lenses, Making multifocal. E. D. Tillyer. No. 1,436,217; Nov. 21.
- Lenses, Manufacturing. C. L. Rost. No. 1,438,139; Dec. 5.

- Lenses, Means for polishing multifocal. L. W. Bugbee. No. 1,406,927; Feb. 14.
 Lenses, Mounting for reading. J. J. Bausch. No. 1,415,511; May 9.
 Lenses, Rim for ophthalmic. E. R. Durgin. No. 1,409,534; Mar. 14.
 Lens-forming process. G. S. Dey. No. 1,416,947; May 23.
 Lens frame, Ophthalmic test-. M. Poser. No. 1,422,303; July 11.
 Lens-grinding apparatus. G. P. Miller. No. 1,406,407; Feb. 14.
 Lens grinding machine. A. J. DeWille. No. 1,427,787; Sept. 5.
 Lens-grinding machine. H. W. Hill. No. 1,436,255; Nov. 21.
 Lens-grinding machine. L. G. Simpson. No. 1,415,613; May 9.
 Lens-grinding machine. J. Spaander. No. 1,436,626; Nov. 21.
 Lens-grinding machinery. H. W. Hill. No. 1,434,896; Nov. 7.
 Lens guard and dimmer. J. M. Larson and J. F. Sievers. No. 1,420,848; June 27.
 Lens, Lantern. A. J. Kloneck. No. 1,407,427; Feb. 21.
 Lens machinery. H. W. Hill. No. 1,412,867; Apr. 18.
 Lens-marking machine. A. E. Covelle. No. 1,438,519; Dec. 12.
 Lens mount and forming same. H. C. Rees. No. 1,430,114; Sept. 26.
 Lens mount, Focusing. J. Tessier. No. 1,405,463; Feb. 7.
 Lens mounting. A. T. Jacobson. No. 1,417,326; May 23.
 Lens mounting, Detachable. G. Lowenstein. No. 1,435,586; Nov. 14.
 Lens, Multifocal ophthalmic. A. J. Cross. No. 1,415,318; May 9.
 Lens, Ophthalmic. C. Sheard and E. D. Tillyer. No. 1,426,513; Aug. 22.
 Lens, Projection. W. A. Dorey. No. 1,410,898; Mar. 28.
 Lens, Projection. W. H. Repp. No. 1,415,002; May 2.
 Lens series and making same, Toric-. L. W. Bugbee. Nos. 1,426,146-8; Aug. 15.
 Lens, Signal. O. Kroehle. Nos. 1,432,872-3; Oct. 24.
 Lens support. W. Wenderhold. No. 1,439,775; Dec. 26.
 Lens, Toric spectacle. A. Gleichen. No. 1,438,820; Dec. 12.
 Lens-testing device. R. M. Wahlgren and E. J. R. Beattley. No. 1,406,118; Feb. 7.
 Let-off. H. J. Sattler, Sr. No. 1,418,025; May 30.
 Let-off mechanism, Friction band for. C. H. Slinger. No. 1,423,780; July 25.
 Letter and cover and the like, Combined. H. Chambon. No. 1,409,828; Mar. 14.
 Letter and envelope stuffer or the like, Combined. E. P. Shurick. No. 1,417,211; May 23.
 Letter folder, Hand. J. L. Cowen. No. 1,424,881; Aug. 8.
 Letter, Interchangeable. T. N. Evens. No. 1,405,991; Feb. 7.
 Letter-reproducing device. J. P. Bannigan. No. 1,427,254; Aug. 29.
 Letter sheet. H. B. Campbell. No. 1,423,910; July 25.
 Letter sheet. H. J. Lunger. No. 1,439,428; Dec. 19.
 Letter sheet. M. G. Major. No. 1,428,503; Sept. 5.
 Letter sheet and envelope, Combined. W. G. Gruber. No. 1,427,590; Aug. 29.
 Letter sheet and envelope, Combined. T. Rubovits. No. 1,413,875; Apr. 25.
 Letter sheet, check, envelope, and carbon copy, Combined. W. E. Lover. No. 1,424,837; Aug. 8.
 Lettering. A. N. Sandt. No. 1,403,449; Jan. 10.
 Lettering instrument. O. A. Olson. No. 1,416,411; May 16.
 Lettering process. E. L. Merritt. No. 1,429,445; Sept. 19.
 Letters, Combination for printing facsimiles of typewritten. J. B. Buffalo. No. 1,411,381; Apr. 4.
 Leucitic rocks for the purpose of rendering potassium compounds available, Treatment of. G. A. Blanc and F. Jourdan. No. 1,418,356; June 6.
 Level. F. Bachila. No. 1,437,164; Nov. 28.
 Level. G. Bredeson. No. 1,426,454; Aug. 22.
 Level. G. B. Cocayne. No. 1,430,535; Oct. 3.
 Level. H. A. Cook. No. 1,409,833; Mar. 14.
 Level. C. L. Klapproth. No. 1,403,606; Jan. 17.
 Level. C. D. Luce. No. 1,433,513; Oct. 24.
 Level. H. J. Ziemann. No. 1,435,365; Nov. 14.
 Level. C. E. Wyckoff. No. 1,424,229; Aug. 1.
 Level and grade finder, Combined. T. Henri. No. 1,404,393; Jan. 24.
 Level and plumb, Angle-indicating. E. F. Cerveny. No. 1,440,275; Dec. 26.
 Level and plumb, Spirit. H. C. Drummond. No. 1,435,054; Nov. 7.
 Level and transit, Convertible builder's. W. F. Kiefer and J. H. Warren. No. 1,429,437; Sept. 19.
 Level, Hand. J. H. Carman. No. 1,417,496; May 30.
 Level indicator, Distant boiler-water-. H. S. Parks. No. 1,421,711; July 4.
 Level, Mechanic's. J. F. Dodge. No. 1,418,544; June 6.
 Level, plumb, square, and measure, Combined. J. Stanley. No. 1,422,231; July 11.
 Level-registering means. F. W. Merritt and A. E. Watts. No. 1,422,118; July 11.
 Level, Universal. H. M. Franzen. No. 1,409,537; Mar. 14.
 Levels, Extension stock for plumb. H. L. Hunter. No. 1,430,904; Oct. 3.
 Leveler, Land. O. W. Beach. No. 1,403,831; Jan. 17.
 Leveler, Land. O. W. Beach. No. 1,403,934; Jan. 17.
 Leveling and plowing machine-. S. L. G. Knox. No. 1,419,866; June 13.
 Leveling apparatus, Self-. L. I. Henry. No. 1,404,523; Jan. 24.
 Leveling device. C. A. Eltag and J. M. Thoennes. No. 1,403,676; Jan. 17.
 Leveling device. F. C. Furlow. (Reissue.) No. 15,342; Apr. 25.
 Leveling device. L. L. Whitney. No. 1,404,917; Jan. 31.
 Leveling implement, Ridge-. R. J. Altgelt. No. 1,405,086; Jan. 31.
 Leveling instrument. H. Ritow. No. 1,410,958; Mar. 28.
 Leveling instrument. G. G. Townsend. No. 1,437,327; Nov. 28.
 Lever. A. Grieves. No. 1,427,684; Aug. 29.
 Lever adjustment. W. J. Burchett. No. 1,409,922; Mar. 21.
 Lever-carried latch-handle lock. W. A. Swonger. No. 1,435,030; Nov. 7.
 Lever, Control. A. H. Stroupe. No. 1,431,056; Oct. 3.
 Lever, clutch release. L. E. Blanchard. No. 1,404,174; Jan. 17.
 Lever, Clutch - release. J. R. Edick. No. 1,413,837; Apr. 25.
 Lever, Eccentric. A. Anderson. No. 1,421,136; June 27.
 Lever escapement. G. Galloway. No. 1,433,611; Oct. 31.
 Lever, Hand. C. Esping. No. 1,428,951; Sept. 12.
 Lever, Latch. J. P. Seaholm. No. 1,428,988; Sept. 12.
 Lever-limit gauge, Indicating-. M. Bartholdy. No. 1,422,169; July 11.
 Lever lock. O. Miller. No. 1,421,021; June 27.
 Lever lock. C. W. Ribble. No. 1,408,225; Feb. 28.
 Lever, Locking. A. G. Stephenson. No. 1,413,805; Apr. 25.
 Lever-locking means. G. L. McCain. No. 1,403,557; Jan. 17.
 Lever openings, Guard for. J. C. Harper. No. 1,402,603; Jan. 3.
 Lever stops, Closure for. F. L. Hunt. No. 1,405,135; Jan. 31.
 Lever switch lock, Safety. J. O. Norris. No. 1,428,800; Sept. 12.
 Lever with braked motion, Control hand. R. J. C. Tampion. No. 1,406,103; Feb. 7.
 Levers, Bearing support for scale-pit. J. J. Magrady. No. 1,436,769; Nov. 28.
 Levers, Lock for controlling. H. J. Menard. No. 1,434,556; Nov. 7.
 Levers, Lock for controlling. H. J. Menard and A. C. Saxton. No. 1,437,853; Dec. 5.
 Levers, Lock for controlling. A. C. Saxton. No. 1,437,555; Dec. 5.
 Levers, Means for gauging the distance between the knife edges or pivots of. J. Howell and A. W. Brown. No. 1,405,218; Jan. 31.
 Levers, Stop device for. T. Pidgeon. No. 1,427,969; Sept. 5.
 Levoglucosane, Manufacture of. A. Pictet. No. 1,437,615; Dec. 5.
 License holder. J. M. Brady. No. 1,436,854; Nov. 28.
 License holder. J. Oppman. No. 1,429,091; Sept. 12.
 License holder, Driver's. B. A. Cunningham. No. 1,408,566; Mar. 7.
 License-number holder and illuminator, Vehicle. J. E. Rutherford. No. 1,422,480; July 11.
 License-number plate and tail light, Illuminated. L. Ohnstein. No. 1,418,454; June 6.
 License-number plates, Frame for. A. B. Anderson and R. L. Wood. No. 1,411,257; Apr. 4.
 License plate. C. Even. No. 1,410,662; Mar. 28.
 License plate and tail light, Combined. O. S. Gropper. No. 1,437,413; Dec. 5.
 License-plate carrier. C. E. Jones. No. 1,435,308; Nov. 14.
 License-plate holder. W. Johns. No. 1,432,560; Oct. 17.
 License-plate holder. H. Miles. No. 1,440,310; Dec. 26.
 License-plate holder. W. H. Rinebold. No. 1,436,358; Nov. 21.
 License-plate holder. S. Spitz. No. 1,407,896; Feb. 28.
 License-plate holder and illuminator therefor. G. Kramer. No. 1,411,920; Apr. 4.
 License plate holder and reflector, Illuminated. C. Clements, J. W. Swart, and C. E. Nutbrown. No. 1,414,772; May 2.
 License plate, Illuminated. E. McGarvin. No. 1,417,400; May 23.
 License plate, Illuminated. H. F. Wagner and S. G. Neeb. No. 1,433,314; Oct. 24.
 License-plates, Fastener for. G. Pendergast and R. F. Ethier. No. 1,421,548; July 4.
 License tag. J. L. Alkire. No. 1,408,059; Feb. 28.
 License tag. W. S. Ashcroft. No. 1,411,559; Apr. 4.
 License tag. C. S. Gurr. No. 1,401,977; Jan. 3.
 License-tag holder and rear signal light, Combined. J. L. Day. No. 1,413,104; Apr. 18.
 Lid adjuster and support. C. Peterson. No. 1,405,433; Feb. 7.
 Lid holder. L. N. Rebideau. No. 1,429,630; Sept. 19.
 Lid holder with drop catcher. E. Hegenberg, née Freyer. No. 1,438,706; Dec. 12.

Alphabetical list of inventions—Continued.

- Lid latch. H. A. Sadler. No. 1,414,047; Apr. 25.
 Lid support. L. J. Banks. No. 1,433,524; Oct. 31.
 Lid support. A. G. Hillson. No. 1,409,857; Mar. 14.
 Lifeboat. C. Bertschert. No. 1,437,387; Nov. 28.
 Lifeboat. A. D. Newcomb. No. 1,408,130; Feb. 28.
 Lifeboat. W. Stewart. No. 1,420,459; June 20.
 Lifeboat. J. E. Wyse. No. 1,435,040; Nov. 7.
 Lifeboat-releasing mechanism. A. D. Newcomb. No. 1,416,498; May 16.
 Lifeboats, Apparatus for handling. J. W. Wilson. No. 1,411,320; Apr. 4.
 Life preserver. A. D. Frantz. No. 1,412,803; Apr. 11.
 Life preserver. J. Strobel. No. 1,416,523; May 16.
 Life preserver, Inflatable. A. Kolberg. No. 1,419,272; June 13.
 Life-saving and swimming apparatus. J. Reiter. No. 1,429,773; Sept. 19.
 Life-saving apparatus. H. W. Walters. No. 1,403,362; Jan. 10.
 Life-saving device for submarines. J. De Stefano. No. 1,428,012; Sept. 5.
 Life-saving device, Submarine. A. Coté. No. 1,409,361; Mar. 14.
 Life-saving fender. J. E. Wyckoff. No. 1,421,650; July 4.
 Life-saving float. E. T. Willows and W. G. Austin. No. 1,410,438; Mar. 21.
 Life-saving suit. J. F. Mordica. No. 1,424,174; Aug. 1.
 Lift for stoopers, Spring. E. S. Williamson. No. 1,409,326; Mar. 14.
 Lift jack. J. Fürst. No. 1,420,831; June 27.
 Lifter: See—
 Jar lifter. Sash lifter.
 Pan lifter. Stove-lid lifter.
 Pastry lifter. Utensil lifter.
 Pipe lifter. Valve lifter.
 Plate lifter. Valve-spring lifter.
 Plunger lifter. Window lifter.
 Record lifter.
 Lifting device. J. Jolly. No. 1,403,962; Jan. 17.
 Lifting device. J. C. Jones. No. 1,410,924; Mar. 28.
 Lifting device. A. F. Klasing. No. 1,420,555; June 20.
 Lifting device. G. E. Lee. No. 1,413,039; Apr. 18.
 Lifting device. L. Wilkinson. No. 1,417,436; May 23.
 Lifting hook, Safety. W. P. Simpson. No. 1,409,068; Mar. 7.
 Lifting implement. H. W. Roos. No. 1,415,055; May 9.
 Lifting jack. E. C. Bates. No. 1,430,350; Sept. 26.
 Lifting jack. L. C. Berman. No. 1,404,735; Jan. 31.
 Lifting jack. J. B. Bostwick. No. 1,433,695; Oct. 31.
 Lifting jack. R. A. Clarke. No. 1,433,069; Oct. 24.
 Lifting jack. W. Connor. No. 1,413,655; Apr. 25.
 Lifting jack. H. L. Cook. No. 1,410,377; Mar. 21.
 Lifting jack. W. H. Griffith. No. 1,436,588; Nov. 21.
 Lifting jack. A. H. F. Hern. No. 1,429,945; Sept. 26.
 Lifting jack. H. B. Imes. No. 1,409,861; Mar. 14.
 Lifting jack. L. T. Johnson. No. 1,418,651; June 6.
 Lifting jack. L. T. and D. S. Kimmeler. No. 1,440,016; Dec. 26.
 Lifting jack. J. C. Kopf. Nos. 1,410,578-9; Mar. 28.
 Lifting jack. A. L. Mann. No. 1,404,455; Jan. 24.
 Lifting jack. C. M. Markham. No. 1,410,698; Mar. 28.
 Lifting jack. J. J. Mizer. No. 1,435,324; Nov. 14.
 Lifting jack. J. A. Morrison. No. 1,428,702; Sept. 12.
 Lifting jack. M. Mueller. No. 1,432,408; Oct. 17.
 Lifting jack. M. V. H. Perkins. No. 1,403,812; Jan. 17.
 Lifting jack. A. D. Powell. No. 1,422,781; July 11.
 Lifting jack. S. Selden. Nos. 1,413,792-3; Apr. 25.
 Lifting jack. A. and H. E. Shrieves. No. 1,421,590; July 4.
 Lifting jack. M. T. Stranahan. No. 1,424,748; Aug. 1.
 Lifting jack. C. H. H. Thode. No. 1,402,192; Jan. 3.
 Lifting jack. H. J. Tillar. No. 1,439,492; Dec. 19.
 Lifting jack. W. Williams. No. 1,404,824; Jan. 31.
 Lifting jack. W. C. Yarmolaitis. No. 1,424,390; Aug. 1.
 Lifting-jack attachment. P. E. Hawkinson. No. 1,437,055; Nov. 28.
 Lifting jack for the side cars of motor cycles. A. H. Hascall. No. 1,431,303; Oct. 10.
 Lifting-jack handle. H. Frederick. No. 1,432,846; Oct. 24.
 Lifting jack, Pneumatic. J. C. Hill. No. 1,439,105; Dec. 19.
 Lifting jack, Roller-base. T. M. Avery. No. 1,415,857; May 16.
 Lifting jack, Safety. D. C. Klausmeyer. No. 1,417,254; May 23.
 Lifting jack, Self-lowering high-speed. F. L. Gormley. No. 1,437,752; Dec. 5.
 Lifting mechanism. A. F. Klasing. No. 1,420,556; June 20.
 Light: See—
 Aerial signal light. Navigation light.
 Automobile instrument light. Parking light.
 Automobile tail light. Port light.
 Cargo light. Radium emergency light.
 Curtain light. Sadiron light.
 Curtain-window light. Safety light.
 Electric flash light. Ship's light.
 Electric light. Signal light.
 Flash light. Tail light.
 Mushroom light. Vault light.
 Motor-vehicle light. Vehicle light.
- Light and spare bulb and fuse carrier, Combined trouble-. H. A. Weaver. No. 1,434,639; Nov. 7.
 Light and structure, Combined. J. C. Hobbs. No. 1,416,467; May 16.
 Light concentrator and projector. C. G. Myers and O. C. Billman. No. 1,433,292; Oct. 24.
 Light control. K. W. Ebeling and H. J. Fanger. No. 1,426,557; Aug. 22.
 Light-control mechanism for projectors. J. O. Thomas. No. 1,436,370; Nov. 21.
 Light-control switch. C. J. White. No. 1,432,650; Oct. 17.
 Light-controlling device. J. Whyte. No. 1,427,504; Aug. 29.
 Light deflector. H. A. Rasmussen. No. 1,409,574; Mar. 14.
 Light-diffusing bowls, Holder for. H. E. Cave. No. 1,430,941; Oct. 3.
 Light-diffusing medium. V. Walsh. No. 1,412,432; Apr. 11.
 Light-diffusing medium and making the same. L. W. Eberlin and S. E. Sheppard. No. 1,421,924; July 4.
 Light dimmer. H. S. Roberts. No. 1,417,630; May 30.
 Light, Projecting device for beams of. S. Salto. No. 1,422,307; July 11.
 Light, Projection and distribution of. L. Bell. No. 1,428,936; Sept. 12.
 Light-projection display. R. Lovstrom. No. 1,406,663; Feb. 14.
 Light-projection-regulating means. A. C. Wood. No. 1,427,251; Aug. 29.
 Light-projection-regulating means. A. C. Wood. No. 1,437,124; Nov. 28.
 Light projector. L. Bell. No. 1,435,372; Nov. 14.
 Light projector. L. Bell. No. 1,438,628; Dec. 12.
 Light-ray interceptor. A. C. Wood. No. 1,439,782; Dec. 26.
 Light screen. E. Von Vargyas. No. 1,410,229; Mar. 21.
 Light-shading device. H. E. Owen. No. 1,420,443; June 20.
 Light-signal system. J. H. Hammond, jr. No. 1,430,902; Oct. 3.
 Light support and clamp, Portable. H. E. Peck. No. 1,431,485; Oct. 10.
 Light visor, Adjustable. C. H. Tumeys, Sr. No. 1,416,245; May 16.
 Lighter for carbide lights, Self-. E. A. Wisintainer. No. 1,434,419; Nov. 7.
 Lighting-accessory suspension. W. H. Spencer. No. 1,422,796; July 11.
 Lighting and ignition switch, Combination. W. Kaisling. (Reissue.) No. 15,289; Feb. 21.
 Lighting burner, Closed adjustable. D. Guelbaum. No. 1,411,273; Apr. 4.
 Lighting burner, Closed high-temperature. D. Guelbaum. No. 1,403,770; Jan. 17.
 Lighting churches. H. W. Rambusch. No. 1,412,541; Apr. 11.
 Lighting device, Writing-. J. J. Devine. No. 1,418,132; May 30.
 Lighting fixture. F. C. Baker. No. 1,420,806; June 27.
 Lighting fixture. T. H. Bullock. No. 1,434,676; Nov. 7.
 Lighting fixture. T. Dahl. No. 1,417,145; May 23.
 Lighting fixture. C. A. Diederichs. No. 1,419,721; June 13.
 Lighting fixture. G. J. Dormandy. No. 1,409,685; Mar. 14.
 Lighting fixture. A. Dvorak. No. 1,419,920; June 20.
 Lighting fixture. A. Dvorak. No. 1,437,502; Dec. 5.
 Lighting fixture. C. F. Eckhart. No. 1,405,674; Feb. 7.
 Lighting fixture. E. F. Guth. No. 1,418,302; June 6.
 Lighting fixture. M. A. Healy and W. I. Kirk. No. 1,416,664; May 16.
 Lighting fixture. K. Keller. No. 1,423,331; July 18.
 Lighting fixture. M. Klein. No. 1,431,588; Oct. 10.
 Lighting fixture. G. J. Klein. No. 1,440,301; Dec. 26.
 Lighting fixture. C. A. Kopfstein. No. 1,402,516; Jan. 3.
 Lighting fixture. F. W. Mathieu. No. 1,428,603; Sept. 12.
 Lighting fixture. C. S. Thomas. No. 1,413,242; Apr. 18.
 Lighting fixture. C. M. Wempner. No. 1,413,439; Apr. 18.
 Lighting-fixture-cleaning device. E. D. Tillson. No. 1,415,065; May 9.
 Lighting fixture, Electric. H. C. Scharff. No. 1,435,421; Nov. 14.
 Lighting fixture, Electric candle. W. R. Kahns. No. 1,407,465; Feb. 21.
 Lighting fixture for show cases. D. Biller. No. 1,435,798; Nov. 14.
 Lighting, Projection-screen. S. Pinanski. No. 1,437,442; Dec. 5.
 Lighting set. L. B. Manson. No. 1,427,489; Aug. 29.
 Lighting system. G. W. Daggett. No. 1,415,159; May 9.
 Lighting system, Colored. I. C. Wood. No. 1,405,246; Jan. 31.
 Lighting system for power tables. J. D. Karle. No. 1,415,453; May 9.
 Lighting unit. R. D. Wardell. No. 1,422,244; July 11.
 Lights, Regulating bracket for movable. R. E. Williams. No. 1,430,135; Sept. 26.
 Lightning arrester. G. R. Folds. Nos. 1,438,953-4; Dec. 19.
 Lightning arrester. G. F. Gray. No. 1,407,061; Feb. 21.
 Lightning arrester and choke coil, Combined. K. B. Narans and G. R. Gampher. No. 1,430,674; Oct. 3.

- Lightning-grounding device. E. H. Petersen. No. 1,437,613; Dec. 5.
- Lightning rods or ground wires. Retainer for. H. A. Taylor. No. 1,416,525; May 16.
- Lignite, Producing and securing products from. J. H. Reid. No. 1,403,633; Jan. 17.
- Limb and forming the same, Artificial. L. F. Greening. No. 1,436,875; Nov. 28.
- Limb, Artificial. C. A. Blatchford. No. 1,402,709; Jan. 3.
- Limb, Artificial. O. L. Dilworth. No. 1,431,292; Oct. 10.
- Limb, Artificial. H. C. Miller. No. 1,424,734; Aug. 1.
- Limb, Artificial. J. F. Rowley. No. 1,409,414; Mar. 14.
- Limb, Artificial. G. H. Shrodes. No. 1,424,264; Aug. 1.
- Limb, Artificial. R. Trautman. No. 1,412,149; Apr. 11.
- Limbs, Motion control for artificial. A. M. Opsal. No. 1,413,054; Apr. 18.
- Lime and sulphur stabilized with an aromatic compound, Compound of. M. S. Hopkins. No. 1,422,977; July 18.
- Lime, Improving the quality of mason's hydrated. F. C. Welch. No. 1,410,087; Mar. 21.
- Limekiln. V. Arnold. No. 1,439,597; Dec. 19.
- Lime, Removal of soap contained in the sludge of carbonate of. P. Krebitz. No. 1,430,017; Sept. 26.
- Lime-sulphur composition, Making dry soluble. E. H. French. No. 1,423,605; July 25.
- Lime sulphur, Manufacture of. R. Taki. No. 1,434,266; Oct. 31.
- Limit gauge, Adjustable. L. E. Olsen. No. 1,414,434; May 2.
- Limit gauge, Adjustable. L. E. Olsen. No. 1,414,484; May 2.
- Line, Artificial. R. S. Hoyt. No. 1,437,422; Dec. 5.
- Line-casting machines, Attachment for. J. E. Cranny. No. 1,405,498; Feb. 7.
- Line-casting machines, Slug-trimming knife for. S. E. Sperry. No. 1,426,231; Aug. 15.
- Line fastener. L. O. Larson. No. 1,405,423; Feb. 7.
- Line gauge, Self-adjustable. C. H. Smith. No. 1,429,785; Sept. 19.
- Line guide. S. Lawson. No. 1,435,316; Nov. 14.
- Line holder. E. J. Brown. No. 1,432,526; Oct. 17.
- Line holder. H. Monahan. No. 1,423,868; July 25.
- Line interconnecting system. F. M. Slough. No. 1,437,367; Nov. 28.
- Line or cable union. C. L. Tarket. No. 1,409,430; Mar. 14.
- Line reel. N. H. Brown. No. 1,439,726; Dec. 26.
- Line rigging. J. W. Behie. No. 1,432,096; Oct. 17.
- Line-spacing mechanism. C. Spiro. No. 1,402,266; Jan. 3.
- Line-supporting post. W. G. Banks. No. 1,402,561; Jan. 3.
- Line-throwing apparatus. G. Norman. No. 1,418,964; June 6.
- Liner. M. C. Applegate. No. 1,404,680; Jan. 24.
- Liners, Double packer for. T. H. Gallagher. No. 1,411,486; Apr. 4.
- Lining. J. Pietrafesa. No. 1,433,565; Oct. 31.
- Lining gauge. D. M. Campana. No. 1,436,791; Nov. 28.
- Lines, Instrument for producing. A. E. M. Van der Meersch. No. 1,406,785; Feb. 14.
- Lingerie clasp. F. W. Aves. No. 1,412,813; Apr. 11.
- Lingerie clasp. H. R. Johnson. No. 1,424,103; July 25.
- Lingerie clasp. C. Silverman. No. 1,416,758; May 23.
- Lingual bar. M. F. Arata. No. 1,435,909; Nov. 21.
- Lingual bar. L. J. Weinstein. No. 1,433,766; Oct. 31.
- Lingual bar. L. S. Wolfe. No. 1,433,770; Oct. 31.
- Liment. D. Mottura. No. 1,412,129; Apr. 11.
- Link. R. T. Ashley. No. 1,438,977; Dec. 19.
- Link. J. V. Sandquist. No. 1,421,997; July 4.
- Link and chain fastener, Auxiliary. C. Hanson. No. 1,408,998; Mar. 7.
- Link and drum, Jacquard. G. C. L. Tisch. No. 1,419,084; June 6.
- Link, Connecting. A. A. Tirrill. No. 1,436,786; Nov. 28.
- Link coupling, Floating. L. F. Whitney and G. A. Kay. No. 1,408,789; Mar. 7.
- Link, Detachable. J. Pavoni. No. 1,415,692; May 9.
- Link-forming machine. E. W. Austin. No. 1,431,452; Oct. 10.
- Link-forming machine. J. Sengt. No. 1,432,573; Oct. 17.
- Link, Fusible. M. K. Hopkins. No. 1,405,512; Feb. 7.
- Link, Fusible. M. K. Hopkins. No. 1,405,588; Feb. 7.
- Link, Fusible. M. K. Hopkins. No. 1,416,713; May 23.
- Link mesh, Machine for making. A. C. Pratt. No. 1,414,829; May 2.
- Link mesh, Machine for making. A. C. Pratt. No. 1,436,681; Nov. 28.
- Link mesh, Machine for making. A. C. Pratt. No. 1,438,721; Dec. 12.
- Link, Repair. L. S. Clark. No. 1,409,928; Mar. 21.
- Link, Repair. M. Tobin. No. 1,412,724; Apr. 11.
- Linoleum and linoleum cement. A. B. Craven. No. 1,438,222; Dec. 12.
- Linoleum and the like, Manufacture of. A. B. Craven. No. 1,438,221; Dec. 12.
- Linoleum, Apparatus for storing, measuring, and cutting. E. E. Eagle. No. 1,411,771; Apr. 4.
- Linoleum, Device for handling. W. Kahn. No. 1,403,692; Jan. 17.
- Linoleum, Mechanism for making. J. Tamberlin. No. 1,437,872; Dec. 5.
- Linotype and intertype machines, Cleaner for the casting pots or pot wells of. J. M. Peiffer. No. 1,429,900; Sept. 19.
- Linotype-bar cutting or broaching machine. A. J. Harder. No. 1,429,075; Sept. 12.
- Linotype machines, Attachment to. A. Coelho. No. 1,430,796; Oct. 3.
- Lint cleaner and batting machine. F. Alder and J. C. Rogers. No. 1,425,502; Aug. 15.
- Liquid aerator. J. W. Small. No. 1,429,652; Sept. 19.
- Liquid-agitating mechanism. F. M. Slough. No. 1,420,767; June 27.
- Liquid air or oxygen and a carbonaceous substance, Missile charged with. P. Heylandt. No. 1,439,237; Dec. 19.
- Liquid air, Receptacle for. G. Weber. No. 1,424,604; Aug. 1.
- Liquid body, Apparatus for removing objects from a. F. Cuttle. No. 1,412,230; Apr. 11.
- Liquid body, Apparatus for removing objects from a. F. Stebler. No. 1,430,198; Sept. 26.
- Liquid clutch and transmission. C. B. Funk. No. 1,411,485; Apr. 4.
- Liquid-coating machine. F. Coates. No. 1,439,608; Dec. 19.
- Liquid container. B. F. Germani. No. 1,422,559; July 11.
- Liquid containing organic matter, Method of concentrating. D. D. Peebles. No. 1,438,502; Dec. 12.
- Liquid-containing receptacles, Combined clamp and sealing means for. T. E. Lewis. No. 1,409,458; Mar. 14.
- Liquid conveyor. E. W. Crane. No. 1,406,158; Feb. 7.
- Liquid cooler. T. Mojonier. No. 1,437,540; Dec. 5.
- Liquid-cooling apparatus. H. W. Dyer. No. 1,415,231; May 9.
- Liquid dam preparation. E. C. Miller. No. 1,417,091; May 23.
- Liquid dispenser. G. A. and A. L. Bobrick. (Reissue.) No. 15,450; Sept. 12.
- Liquid dispenser. W. F. Wagner. No. 1,404,670; Jan. 24.
- Liquid dispenser, Coin-controlled. E. F. Kross. No. 1,428,244; Sept. 5.
- Liquid-dispensing apparatus. M. A. Beach. (Reissue.) No. 15,257; Jan. 3.
- Liquid-dispensing apparatus. A. and H. Ingram. No. 1,414,135; Apr. 25.
- Liquid-dispensing apparatus. H. E. Maurer, Jr. No. 1,419,284; June 13.
- Liquid-dispensing apparatus. C. C. Neale. No. 1,402,086; Jan. 3.
- Liquid-dispensing apparatus. E. and C. E. Sudler. No. 1,404,492; Jan. 24.
- Liquid-dispensing apparatus. N. J. Warren and A. J. Field. No. 1,408,552; Mar. 7.
- Liquid-dispensing apparatus, Automatic. M. A. Beach. No. 1,434,670; Nov. 7.
- Liquid-dispensing container. R. J. E. Craig. No. 1,426,846; Aug. 22.
- Liquid-dispensing devices, Measuring cup for. C. C. Boykin. No. 1,438,892; Dec. 12.
- Liquid-dispensing machine. C. O. McCasland. No. 1,420,327; June 20.
- Liquid-dispensing tank. F. L. Gabris. No. 1,434,948; Nov. 7.
- Liquid-distilling apparatus. L. Steinschneider. No. 1,437,566; Dec. 5.
- Liquid distributor. J. Schneeweiss. No. 1,431,492; Oct. 10.
- Liquid-distributor discharge mechanism. F. E. Bager. No. 1,421,373; July 4.
- Liquid-elevating apparatus. H. Kapferer. No. 1,405,595; Feb. 7.
- Liquid evaporator. E. Wirth-Frey. No. 1,437,698; Dec. 5.
- Liquid-feed device, Suction-operated. J. C. Coulombe. No. 1,408,801; Mar. 7.
- Liquid-feed system and method. C. L. Stokes. No. 1,430,038; Sept. 26.
- Liquid-feeding apparatus. M. Kraut. No. 1,416,840; May 23.
- Liquid-feeding means and method. W. I. Twombly. No. 1,437,283; Nov. 28.
- Liquid-feeding means and pump. W. I. Twombly. Nos. 1,437,278-80; Nov. 28.
- Liquid-feeding means and pump. W. I. Twombly. No. 1,437,282; Nov. 28.
- Liquid fuel, Apparatus for the atomization of. A. J. Donovan and F. Pokorny, jr. (Reissue.) No. 15,494; Nov. 21.
- Liquid fuel, Apparatus for use in the burning of. A. Forster. No. 1,437,300; Nov. 28.
- Liquid fuel, Apparatus for vaporizing. L. S. Chadwick. No. 1,439,146; Dec. 19.
- Liquid fuel, Atomizing. A. J. Donovan and F. Pokorny, jr. (Reissue.) No. 15,493; Nov. 21.
- Liquid-fuel burner. W. J. Barber and W. J. Irvin. No. 1,430,278; Sept. 26.
- Liquid-fuel burner. F. I. du Pont. No. 1,427,449; Aug. 29.
- Liquid-fuel burner. R. Furness and M. G. Bittel. No. 1,427,202; Aug. 29.
- Liquid-fuel burner. J. Good. No. 1,413,113; Apr. 18.
- Liquid-fuel burner. G. H. Leifheit. No. 1,426,833; Aug. 22.
- Liquid-fuel burner. A. M. Lockett. No. 1,432,071; Oct. 17.
- Liquid-fuel burner. H. C. Mann. No. 1,410,942; Mar. 28.
- Liquid-fuel burner. D. J. Nysewander. No. 1,427,227; Aug. 29.
- Liquid-fuel burner. W. R. Furnell. No. 1,413,134; Apr. 18.
- Liquid-fuel burner. J. Smith. No. 1,429,373; Sept. 19.

Alphabetical list of inventions—Continued.

- Liquid-fuel-burning apparatus. I. F. Zalewski. No. 1,406,520; Feb. 14.
- Liquid-fuel-control apparatus. N. E. Tyrrell. No. 1,432,502; Oct. 17.
- Liquid-fuel conversion, Art of and means for. O. H. Ensign. No. 1,408,278; Feb. 28.
- Liquid-fuel-delivery device. G. C. Bruhn, Jr. No. 1,402,565; Jan. 3.
- Liquid fuel, Forming a. A. Hayes. No. 1,428,885; Sept. 12.
- Liquid-fuel furnace. R. Mackie. No. 1,436,888; Nov. 28.
- Liquid-fuel gauge. H. Goranson. No. 1,410,469; Mar. 21.
- Liquid fuel, Making. G. E. Gray. No. 1,438,823; Dec. 12.
- Liquid-fuel meter. H. A. Anderson. No. 1,412,263; Apr. 11.
- Liquid-fuel motor. R. Abell. No. 1,424,705; Aug. 1.
- Liquid fuel, Reservoir for. A. Macbeth. No. 1,406,667; Feb. 14.
- Liquid-fuel strainer. M. Grimord. No. 1,432,687; Oct. 17.
- Liquid-fuel-vaporizing device. W. H. Hill. No. 1,436,099; Nov. 21.
- Liquid gauge. J. A. Orr. No. 1,405,798; Feb. 7.
- Liquid heater, Electrically-heated. C. H. Lauth. No. 1,415,457; May 9.
- Liquid heater, Portable electric. O. W. Montgomery. No. 1,425,034; Aug. 8.
- Liquid-level-condition warning system. W. W. Connors. No. 1,432,385; Oct. 17.
- Liquid-level gauge. I. Andersson. No. 1,421,365; July 4.
- Liquid-level gauge. J. H. Bauer and W. F. Kennell. No. 1,429,832; Sept. 19.
- Liquid-level gauge. A. Novick and E. Fish. No. 1,413,235; Apr. 18.
- Liquid-level indicator. S. W. Finch. No. 1,423,411; July 18.
- Liquid-level indicator. M. O. Lundin. No. 1,425,116; Aug. 8.
- Liquid-level indicator. A. Novick and E. Fish. (Reissue.) No. 15,447; Sept. 5.
- Liquid-level indicator. C. W. Wilson. No. 1,431,204; Oct. 10.
- Liquid-level indicator, Electric. W. S. La Londe. No. 1,406,196; Feb. 14.
- Liquid materials, Agitator for. W. G. Devereux. No. 1,430,362; Sept. 26.
- Liquid measuring and dispensing apparatus. T. F. Calahan. No. 1,423,305; July 18.
- Liquid-measuring apparatus. R. S. Buch. No. 1,434,807; Nov. 7.
- Liquid-measuring apparatus. F. J. Gottlieb. No. 1,433,075; Oct. 24.
- Liquid meter. R. S. Bassett. No. 1,413,214; Apr. 18.
- Liquid meter. A. J. Granberg. (Reissue.) No. 15,476; Oct. 24.
- Liquid meter. E. L. Jones. No. 1,437,806; Dec. 5.
- Liquid meter. P. J. Roach and D. Carter. No. 1,420,752; June 27.
- Liquid meters, Clamp for. E. L. Jones. No. 1,437,807; Dec. 5.
- Liquid mixer, Pedal-control. W. Meier. No. 1,418,193; May 30.
- Liquid-mixing means. M. Donauer. No. 1,430,729; Oct. 3.
- Liquid or granular material in predetermined measured quantities, Apparatus for delivering. F. P. Martin. No. 1,429,154; Sept. 12.
- Liquid phase, Recovering valuable components in a. G. B. Burnham. No. 1,424,447; Aug. 1.
- Liquid, Purification of waste. F. W. Wagner. No. 1,428,618; Sept. 12.
- Liquid, Purifying alcoholic. M. D. Mann, Jr. No. 1,413,864; Apr. 25.
- Liquid receptacles, Reserve-supply-controlling device for. A. J. Schreiner. Nos. 1,416,885-6; May 23.
- Liquid register. R. Lossing. No. 1,433,512; Oct. 24.
- Liquid-screening apparatus. G. R. Roddy. No. 1,417,205; May 23.
- Liquid separator. C. A. Sanborn. No. 1,424,522; Aug. 1.
- Liquid separator, Centrifugal. T. Collins. No. 1,426,959; Aug. 22.
- Liquid substances to change the condition thereof by evaporation, Treating. C. R. Mabee. No. 1,420,643; June 27.
- Liquid substances, Treating. C. R. Mabee. No. 1,420,644; June 27.
- Liquid substances, Treating. C. R. Mabee. No. 1,420,646; June 27.
- Liquid-testing device. C. J. Haggstrom. No. 1,429,136; Sept. 12.
- Liquid-treating apparatus. J. E. Caps. No. 1,413,898; Apr. 25.
- Liquid-treating apparatus. L. B. Tanner. No. 1,407,499; Feb. 21.
- Liquid, Treating polluted. J. T. Travers. No. 1,440,253; Dec. 26.
- Liquid-vending apparatus. F. Woodruff. No. 1,417,439; May 23.
- Liquid-vending device. J. C. Gebhart. No. 1,438,912; Dec. 12.
- Liquids and charging the same with gas by the use of snowlike carbonic anhydride, Cooling. V. Crémieu. No. 1,421,176; June 27.
- Liquids and for the separation and recovery of matters of different densities, Apparatus for treating effluent or other. L. Linden. No. 1,432,766; Oct. 24.
- Liquids and in the drying of substances, Device for evaporation of. C. R. Mabee. No. 1,402,238; Jan. 3.
- Liquids and in the drying of substances, Device for the evaporation of. C. R. Mabee. No. 1,420,649; June 27.
- Liquids and in the drying of substances, Device for the evaporation of. C. R. Mabee. No. 1,433,141; Oct. 24.
- Liquids and semiliquids, Apparatus for the drying of. J. C. Miller. No. 1,407,701; Feb. 28.
- Liquids and the production of fixed gases, Process and apparatus for the vaporization of. A. H. Eddy. No. 1,437,587; Dec. 5.
- Liquids, Apparatus for evaporating. P. Müller. No. 1,406,997; Feb. 21.
- Liquids, Apparatus for mixing. W. M. Calkins. No. 1,420,079; June 20.
- Liquids, Apparatus for purifying and filtering. R. E. Langston. No. 1,407,762; Feb. 28.
- Liquids, Apparatus for sterilizing. H. B. Rudd. No. 1,432,124; Oct. 17.
- Liquids, Apparatus for storing and distributing dangerous. P. F. A. Racine. No. 1,432,619; Oct. 17.
- Liquids, Automatic register for. E. and C. E. Sudler. No. 1,418,495; June 6.
- Liquids, Container for sterile. G. A. Persson. No. 1,417,561; May 30.
- Liquids, Container for storing. W. D. Rial. No. 1,408,829; Mar. 7.
- Liquids, Cooling. E. G. R. Angel. No. 1,435,142; Nov. 14.
- Liquids, Dispensing apparatus for. D. A. Zurbrigg. No. 1,431,860; Oct. 10.
- Liquids, Distillation or evaporation of. J. L. Major. No. 1,415,667; May 9.
- Liquids, Electrical device for heating. H. J. Preston. No. 1,428,803; Sept. 12.
- Liquids, Emulsifying. G. Grindrod. No. 1,435,464; Nov. 14.
- Liquids, Evaporating. E. Morterud. No. 1,418,197; May 30.
- Liquids, fluids, and oils, Conversion and transformation of. J. H. Adams. No. 1,433,519; Oct. 24.
- Liquids, Foam covering for preventing the evaporation of stored. J. M. Jennings. Nos. 1,423,720-1; July 25.
- Liquids generating acid vapors, Evaporating. H. A. E. Nilsson. No. 1,440,026; Dec. 26.
- Liquids in a frozen state, Obtaining pure. R. H. Hemphill. No. 1,437,518; Dec. 5.
- Liquids in containers, Apparatus for measuring or indicating the density of. W. H. Porter. No. 1,410,836; Mar. 28.
- Liquids in evaporating apparatus, Means for controlling the level of. W. H. P. Creighton. No. 1,419,824; June 13.
- Liquids, Inspissating. E. Wirth-Frey. No. 1,405,244; Jan. 31.
- Liquids, Method and apparatus for treating. D. G. MacGregor, G. B. Milleu, and J. C. W. Stanley. No. 1,420,046; June 20.
- Liquids, Method of and apparatus for purifying. F. W. Mitchell and J. E. Pfeffer. No. 1,431,245; Oct. 10.
- Liquids, Multicellular arrangement for the raising of. G. A. Caruelle. No. 1,417,886; May 30.
- Liquids of different density, Separator employed for the separation of. W. H. Bateman. No. 1,421,658; July 4.
- Liquids or semiliquids, Mixing. W. Mauss. No. 1,438,843; Dec. 12.
- Liquids or semisolds, Ampullar container for. L. W. Cyrenius. No. 1,434,531; Nov. 7.
- Liquids, Process and apparatus for concentrating. E. Zahm. No. 1,405,085; Jan. 31.
- Liquids, Purification and filtration of. A. Y. and R. E. H. Blomeley. No. 1,404,185; Jan. 24.
- Liquids, Purifying. C. W. Sirch. No. 1,416,899; May 23.
- Liquids, Stable foam for preventing the evaporation of stored. J. M. Jennings. No. 1,423,719; July 25.
- Liquids, Thermoelectric apparatus for heating flowing. R. C. Masseroni. No. 1,436,889; Nov. 28.
- Liquids, Transferring. E. B. Thompson and E. B. Carr. No. 1,419,478; June 13.
- Liquids, vapors, and gases, Combination of pyramidal surfaces for the purification of. P. H. A. Gaillet. No. 1,403,311; Jan. 10.
- Liquids, Weighing apparatus for. C. I. Lindau. No. 1,412,410; Apr. 11.
- Liquids with dry material, Method and means for mixing. T. B. Peterson. No. 1,415,851; May 9.
- Liquor, Utilizing waste. C. J. Thatcher. No. 1,405,954; Feb. 7.
- Liquors and apparatus therefor, Evaporating. W. Gensecke. No. 1,425,005; Aug. 8.
- Liquors, Evaporating. E. Josse and W. Gensecke. No. 1,425,020; Aug. 8.
- Liquors, Purification of phenol-containing. H. S. Davis and S. D. Semenow. No. 1,437,401; Dec. 5.
- Liquors, Purification of phenol-contaminated. R. L. Brown. No. 1,437,394; Dec. 5.
- Liquors, Selective removal of organic material from. C. L. Peck. No. 1,426,596; Aug. 22.
- Liquors with SO₂, Gassing. F. M. Allen. No. 1,422,327; July 11.

Alphabetical list of inventions—Continued.

- Lister and cultivator, Convertible. E. H. Grantham. No. 1,409,846; Mar. 14.
- Lister, Double-row. A. G. Wood. No. 1,402,276; Jan. 3.
- Litharge from sugar residues, Recovering. A. S. Ramage. No. 1,433,034; Oct. 24.
- Lithograph rolls, Process and apparatus for covering. J. A. Ny. No. 1,407,163; Feb. 21.
- Lithographic-ink composition. F. C. Fitzgerald. No. 1,406,837; Feb. 14.
- Lithographic printing machine for direct or offset printing, Rotary. C. L. Stern. No. 1,423,165; July 18.
- Lithographic printing machines, Moisture-supplying device for. M. L. Strawn. No. 1,438,408; Dec. 12.
- Lithographic printing surfaces and making same, Master sheet for use in making. A. Grass. No. 1,416,706; May 23.
- Lithographic solution and treating lithographic plates. D. P. Barrette, jr. No. 1,433,111; Oct. 24.
- Lithographing. G. B. Wedow. No. 1,416,311; May 16.
- Lithopone, Apparatus for manufacturing. J. H. Singmaster and F. G. Breyer. No. 1,411,647; Apr. 4.
- Lithopone, Manufacture of. F. G. Breyer, P. R. Croll, and C. W. Farber. No. 1,411,645; Apr. 4.
- Lithopone, Manufacture of. J. A. Singmaster and F. G. Breyer. No. 1,411,646; Apr. 4.
- Lithopone, Manufacture of. J. A. Singmaster and F. G. Breyer. No. 1,414,793; May 2.
- Lithopone, Manufacture of. J. A. Singmaster, F. G. Breyer, and C. W. Farber. No. 1,411,648; Apr. 4.
- Lithoprinting table. M. C. Hale. No. 1,437,140; Nov. 28.
- Live-bait box. R. S. Carpenter. No. 1,439,690; Dec. 26.
- Load-engaging means, Pneumatic. F. B. Waldron. No. 1,426,930; Aug. 22.
- Load-handling system. N. T. Harrington. No. 1,435,605; Nov. 14.
- Load-indicating device. R. S. Gans. No. 1,409,699; Mar. 14.
- Loader. W. E. Mayhew. No. 1,412,952; Apr. 18.
- Loader. G. C. Nuesse. No. 1,416,118; May 16.
- Loader. H. H. Petersen. No. 1,426,212; Aug. 15.
- Loader device. L. D. Potter and T. C. Nolan. No. 1,423,878; July 25.
- Loader, Log. R. F. Dudley. No. 1,409,368; Mar. 14.
- Loading and transporting apparatus. L. B. Boreiko. No. 1,422,252; July 11.
- Loading and unloading apparatus. N. T. Harrington. No. 1,435,604; Nov. 14.
- Loading and unloading apparatus. C. B. Hastings. No. 1,423,765; July 25.
- Loading and unloading apparatus. A. S. Hecker. No. 1,409,715; Mar. 14.
- Loading and unloading device. J. Dillon. No. 1,435,820; Nov. 14.
- Loading and unloading machine. C. J. Glasel. No. 1,411,842; Apr. 4.
- Loading and unloading machine. J. Simons. No. 1,426,116; Aug. 15.
- Loading and unloading mechanism. A. A. Frantz. No. 1,408,576; Mar. 7.
- Loading apparatus. F. L. Caye. No. 1,428,472; Sept. 5.
- Loading apparatus. W. Kemmerer. No. 1,428,240; Sept. 5.
- Loading apparatus. J. Morrow. No. 1,436,517; Nov. 21.
- Loading apparatus. L. W. Palmer. No. 1,408,136; Feb. 28.
- Loading chute. W. R. Pendry. No. 1,408,466; Mar. 7.
- Loading machine. F. Billings and R. P. Greenleaf. No. 1,420,681; June 27.
- Loading machine. R. K. Giffen. No. 1,426,855; Aug. 22.
- Loading machine. R. P. Greenleaf. No. 1,435,920; Nov. 21.
- Loading machine. A. J. Hinz. No. 1,432,393; Oct. 17.
- Loading machine. W. E. Moody. No. 1,420,207; June 20.
- Loading machine. N. A. Newdick. No. 1,413,129; Apr. 18.
- Loading machine. W. Schuler, Jr. No. 1,415,485; May 9.
- Loading machine. W. Willcox. No. 1,431,857; Oct. 10.
- Loading-machine attachment. F. K. Holmsted and T. W. Mitchell. No. 1,433,011; Oct. 24.
- Loading-machine attachment. J. W. Houghton and T. W. Harvey. No. 1,433,012; Oct. 24.
- Loading machine, Coal. N. A. Newdick. No. 1,413,128; Apr. 18.
- Loading machines, Wad bushing for. F. W. Olin. No. 1,419,941; June 20.
- Loading means, Freight. T. S. Grannis. No. 1,412,861; Apr. 18.
- Loading mechanism. H. O. Scranton. No. 1,437,914; Dec. 5.
- Loading mechanism. J. C. Sell. No. 1,435,879; Nov. 14.
- Loading, Method of and apparatus for. W. L. Saunders. No. 1,416,515; May 16.
- Loading unit. W. Fondiller. No. 1,436,244; Nov. 21.
- Locating and displacing mechanism, Automatic. B. V. King. No. 1,408,096; Feb. 28.
- Location and actual movement of bodies, Method of and apparatus for determining the actual. W. W. Connors. No. 1,433,070; Oct. 24.
- Lock. *See—*
- Adjustable lock.
- Auto lock.
- Auto chain lock.
- Automatic lock.
- Automatic magnetic lock.
- Automobile lock.
- Automobile door lock.
- Automobile hood lock.
- Automobile ignition lock.
- Automobile pedal lock.
- Automobile steering-wheel lock.
- Automobile time lock.
- Automobile tire lock.
- Bag lock.
- Bag-frame lock.
- Bed lock.
- Binuer lock.
- Bobbin-case lock.
- Brake-shoe key lock.
- Cable lock.
- Cap lock.
- Car lock.
- Car-door lock.
- Caster lock.
- Chain lock.
- Clutch lock.
- Clutch-control lock.
- Clutch-pedal lock.
- Coin-controlled lock.
- Coin-operated lock.
- Combination lock.
- Cooker lock.
- Corner lock.
- Cushion lock.
- Cycle lock.
- Cylinder lock.
- Derail lock.
- Desk-drawer lock.
- Dial lock.
- Digester pressure lock.
- Door lock.
- Door and window lock.
- Doorknob lock.
- Dowel-pin lock.
- Electric lock.
- Electric swivel-coupling lock.
- Electrical combination lock.
- Elevator lock.
- Elevator-door lock.
- Friction-clutch lever lock.
- Gas lock.
- Gasoline-line lock.
- Gear-shift lock.
- Gear-shift-lever lock.
- Hand-bag lock.
- Hasp lock.
- Hinge lock.
- Indicator lock.
- Jimmyproof lock.
- Key-lock.
- Key-operating lock.
- Keyless lock.
- Lamp lock.
- Lever lock.
- Lever-carried latch-handle lock.
- Lever switch lock.
- Mail-bag lock.
- Meter lock.
- Micrometer lock.
- Mortise lock.
- Motometer lock.
- Movable-parts lock.
- Necktie-holder lock.
- Nut lock.
- Nut and bolt lock.
- Panel lock.
- Pedal lock.
- Permutation lock.
- Permutation switch lock.
- Pin-tumbler lock.
- Platen lock.
- Presser-foot lock.
- Pulley key lock.
- Railway-rail lock.
- Railway-switch lock.
- Recording lock.
- Rim lock.
- Rowlock.
- Safe-deposit lock.
- Safety lock.
- Sanitary milk-bottle lock.
- Sash lock.
- Selective elevator lock.
- Sheet-metal tumbler lock.
- Sliding window lock.
- Spindle lock.
- Stake lock.
- Steering-system lock.
- Steering-wheel lock.
- Switch lock.
- Table lock.
- Tank-closure lock.
- Telephone lock.
- Tire lock.
- Tire-rim lock.
- Tool-joint lock.
- Transmission lock.
- Trunk lock.
- Tumbler lock.
- Umbrella lock.
- Valve lock.
- Vehicle lock.
- Vehicle door lock.
- Vehicle steering lock.
- Ventilating window lock.
- Window-closing lock.
- Wheel lock.
- Window lock.
- Lock. A. Abell. No. 1,433,591; Oct. 31.
- Lock. A. A. Alexander and B. Morgenthau. No. 1,426,805; Aug. 22.
- Lock. J. Allain. No. 1,435,682; Nov. 14.
- Lock. F. W. Andrew. No. 1,438,164; Dec. 12.
- Lock. P. F. Augenbraun. No. 1,426,702; Aug. 22.
- Lock. V. W. Balzer and J. M. Ballou. No. 1,438,011; Dec. 5.
- Lock. P. S. Barbay. No. 1,434,080; Oct. 31.
- Lock. G. J. Baumstark. No. 1,412,500; Apr. 11.
- Lock. G. Becherer. No. 1,411,401; Apr. 4.
- Lock. A. Block. No. 1,406,437; Feb. 14.
- Lock. A. Block. No. 1,422,820; July 18.
- Lock. A. Boge. No. 1,423,553; July 25.
- Lock. J. J. Boner. No. 1,438,089; Dec. 5.
- Lock. J. M. Boryk. No. 1,404,007; Jan. 17.
- Lock. F. C. Brown. No. 1,434,325; Oct. 31.
- Lock. B. J. Cobon and L. Moskowitz. No. 1,439,229; Dec. 19.
- Lock. W. O. Coleman. No. 1,423,397; July 18.
- Lock. L. P. Dages. No. 1,417,038; May 23.
- Lock. A. G. Delph and R. C. Hemphill. No. 1,422,936; July 18.
- Lock. R. De Sevo. No. 1,420,186; June 20.
- Lock. W. F. Diesel and W. R. Price. No. 1,417,148; May 23.
- Lock. A. J. Fallon. No. 1,423,656; July 25.
- Lock. A. Ferrara. No. 1,421,197; June 27.
- Lock. B. Greenison. No. 1,409,094; Mar. 7.
- Lock. M. Hackländer. No. 1,407,269; Feb. 21.
- Lock. D. Hoffman and F. Easton. No. 1,407,538; Feb. 21.
- Lock. J. Junkunc. No. 1,404,968; Jan. 31.
- Lock. G. S. R. Kampmann. No. 1,435,855; Nov. 14.
- Lock. A. Kendecky. No. 1,415,651; May 9.
- Lock. W. D. Kennedy. No. 1,407,755; Feb. 28.
- Lock. O. K. Klein. No. 1,407,868; Feb. 28.
- Lock. T. Knight. No. 1,438,652; Dec. 12.
- Lock. J. J. Langer. No. 1,410,581; Mar. 28.
- Lock. H. G. Levy. No. 1,415,662; May 9.

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- Lock. E. Long. No. 1,411,111; Mar. 28.
 Lock. E. Long. No. 1,420,853; June 27.
 Lock. G. A. Long. No. 1,439,012; Dec. 19.
 Lock. R. J. Lozon. No. 1,419,393; June 13.
 Lock. A. Mantanel. No. 1,406,573; Feb. 14.
 Lock. F. J. Matchette. No. 1,439,566; Dec. 19.
 Lock. W. E. Mauldin. No. 1,434,787; Nov. 7.
 Lock. G. F. Mayer. No. 1,421,522; July 4.
 Lock. F. A. McCabe. No. 1,431,316; Oct. 10.
 Lock. C. M. Mersch. No. 1,435,124; Nov. 7.
 Lock. J. and A. C. Messina. No. 1,435,320; Nov. 14.
 Lock. R. M. Meunier. No. 1,404,463; Jan. 24.
 Lock. L. Meyers. No. 1,411,220; Mar. 28.
 Lock. W. R. Michael. No. 1,429,609; Sept. 19.
 Lock. J. Michalek. No. 1,416,855; May 23.
 Lock. D. K. Miller. No. 1,430,176; Sept. 26.
 Lock. A. E. Morgan. No. 1,431,481; Oct. 10.
 Lock. B. Morgenthau. No. 1,410,828; Mar. 28.
 Lock. B. Morgenthau. No. 1,410,829; Mar. 28.
 Lock. B. Morgenthau. No. 1,424,136; July 25.
 Lock. T. Nadolny. No. 1,411,123; Mar. 28.
 Lock. S. W. Pelsue and E. W. Cudworth. No. 1,439,021; Dec. 19.
 Lock. P. Penner. No. 1,437,072; Nov. 28.
 Lock. C. Pike. No. 1,420,215; June 20.
 Lock. J. J. Pomeranz. No. 1,419,516; June 13.
 Lock. M. E. Powers. No. 1,433,651; Oct. 31.
 Lock. C. A. Prescott. No. 1,435,874; Nov. 14.
 Lock. E. Ratner. No. 1,402,962; Jan. 10.
 Lock. A. Re. No. 1,432,785; Oct. 24.
 Lock. L. Rzepka. No. 1,438,140; Dec. 5.
 Lock. R. Schoell. No. 1,420,760; June 27.
 Lock. A. Schulte. No. 1,439,332; Dec. 19.
 Lock. S. Segal. No. 1,403,127; Jan. 10.
 Lock. P. Seweryn. No. 1,428,915; Sept. 12.
 Lock. J. H. Shaw. No. 1,437,781; Dec. 5.
 Lock. M. Sheinman. No. 1,413,137; Apr. 18.
 Lock. C. P. Skublin. No. 1,425,221; Aug. 8.
 Lock. J. S. Sibley. No. 1,421,316; June 27.
 Lock. C. W. Snedeker. No. 1,430,196; Sept. 26.
 Lock. F. Soley. No. 1,428,455; Sept. 5.
 Lock. A. Sprung. No. 1,404,556; Jan. 24.
 Lock. L. Stern. No. 1,426,122; Aug. 15.
 Lock. E. B. Stone. No. 1,419,526; June 13.
 Lock. E. B. Stone. No. 1,424,046; July 25.
 Lock. S. Tanski. No. 1,409,429; Mar. 14.
 Lock. E. L. Teich. No. 1,437,785; Dec. 5.
 Lock. T. Thompson. (Reissue.) No. 15,307; Mar. 14.
 Lock. T. Thompson. No. 1,411,314; Apr. 4.
 Lock. D. M. Tulloch and W. Bodge. No. 1,417,430; May 23.
 Lock. G. B. Varnum and L. G. Sexton. No. 1,439,042; Dec. 19.
 Lock. H. G. Voight. No. 1,424,696; Aug. 1.
 Lock. H. G. Voight. No. 1,434,513; Nov. 7.
 Lock. H. J. Young. No. 1,407,312; Feb. 21.
 Lock. A. Yurov. No. 1,415,503; May 9.
 Lock. M. Zawistowski. No. 1,417,963; May 30.
 Lock. J. Zuckerman. No. 1,413,450; Apr. 13.
 Lock and alarm. Combined. A. S. Cummings. No. 1,423,554; July 25.
 Lock and key. J. W. Kovach and T. Markovich. No. 1,426,573; Aug. 22.
 Lock and seal. P. W. Funston. No. 1,404,593; Jan. 24.
 Lock and utility instrument, Emergency-door. M. J. Silverstein. No. 1,434,411; Nov. 7.
 Lock bolt and nut. G. H. Thamann. No. 1,414,761; May 2.
 Lock, Combination. R. Elcock. No. 1,405,987; Feb. 7.
 Lock, Combination. C. E. Huff. No. 1,403,783; Jan. 17.
 Lock construction. J. Soss. No. 1,402,104; Jan. 3.
 Lock for receptacles, Permutation. G. B. Keplinger. No. 1,403,328; Jan. 10.
 Lock for train-pipe angle cocks, Automatic. P. Tague. No. 1,410,849; Mar. 28.
 Lock for vault-lock mechanism, Auxiliary. W. C. Dillon. No. 1,410,800; Mar. 28.
 Lock guard. M. Zultman. No. 1,413,883; Apr. 25.
 Lock joint, Safety. E. Tilton. No. 1,425,724; Aug. 15.
 Lock mechanism, Transmission. P. W. Pomeroy. No. 1,410,116; Mar. 21.
 Lock nut. H. L. Davis. No. 1,422,750; July 11.
 Lock nut. M. Jacobs. No. 1,428,545; Sept. 12.
 Lock nut. G. W. Lester. No. 1,406,043; Feb. 7.
 Lock nut. R. L. Passauer. No. 1,433,410; Oct. 24.
 Lock nut. T. J. Tollackson. No. 1,433,433; Oct. 24.
 Lock or latch. E. Crompton and C. L. Crooks. Nos. 1,434,370-3; Nov. 7.
 Lock-protecting device. L. E. Bumpass. No. 1,413,573; Apr. 25.
 Lock protector. W. T. Coats. No. 1,439,868; Dec. 26.
 Lock protector. F. Gillom. No. 1,432,546; Oct. 17.
 Lock protector. L. Schonwald. No. 1,408,477; Mar. 7.
 Lock suitable for cycle lock, Keyless. A. K. J. Bauers. No. 1,408,434; Mar. 7.
 Lock switch, Push. S. F. Briggs and E. N. Jacobi. No. 1,434,769; Nov. 7.
 Lock switch. H. C. Raber. No. 1,408,395; Feb. 28.
 Lock washer. E. S. Ensign. No. 1,427,946; Sept. 5.
 Lock washer. E. A. Halbleib. No. 1,427,807; Sept. 5.
 Lock washers, Machine for making. A. Moore. No. 1,404,994; Jan. 31.
 Locker. J. B. O'Connor. No. 1,438,547; Dec. 12.
 Locker, Air and water service hose. C. E. Hill. No. 1,422,359; July 11.
 Locking and signaling apparatus, Combination pneumatic. E. M. Boyle. No. 1,418,226; May 30.
 Locking and unlocking mechanism. D. M. Alexander. No. 1,419,095; June 6.
 Locking apparatus, Larceny-proof. F. Sexton. No. 1,403,131; Jan. 10.
 Locking device. A. Bevere, G. Greco, and A. G. Rizzolo. No. 1,408,854; Mar. 7.
 Locking device. H. Brunner. No. 1,413,572; Apr. 25.
 Locking device. A. R. Collier. No. 1,420,910; June 27.
 Locking device. C. M. Corbett. No. 1,423,194; July 18.
 Locking device. C. F. Dotts. No. 1,407,326; Feb. 21.
 Locking device. A. Houston and H. P. Stephenson. No. 1,418,571; June 6.
 Locking device. M. A. Johnson. No. 1,420,926; June 27.
 Locking device. J. D. Karle. No. 1,418,379; June 6.
 Locking device. R. Spencer. No. 1,436,207; Nov. 21.
 Locking device. J. H. Taillefer. No. 1,437,923; Dec. 5.
 Locking device. L. E. Wallace. No. 1,434,031; Oct. 31.
 Locking device, Bolt. G. Larson. No. 1,414,140; Apr. 25.
 Locking device for motor vehicles. R. Baer and H. Kopp. (Reissue.) No. 15,353; May 16.
 Locking devices with electric locking of the releasing means, Electromagnet for momentarily releasable. K. F. Kappes. No. 1,421,951; July 4.
 Locking handle. L. W. Gates. No. 1,424,245; Aug. 1.
 Locking jaws. I. W. Weppis. No. 1,411,824; Apr. 4.
 Locking means. D. A. Raggio. No. 1,421,563; July 4.
 Locking mechanism. T. W. Bell. No. 1,427,934; Sept. 5.
 Locking mechanism. T. Lund. No. 1,426,398; Aug. 22.
 Locking mechanism. J. F. Schaefer. No. 1,406,289; Feb. 14.
 Locking mechanism. J. S. Power and J. W. Pearson. No. 1,432,492; Oct. 17.
 Locking mechanism, Pneumatic. M. Zebich. No. 1,409,210; Mar. 14.
 Locking nut. A. B. Morse. No. 1,427,313; Aug. 29.
 Locking switch. S. F. Briggs and E. N. Jacobi. No. 1,437,716; Dec. 5.
 Locking washer. P. A. Trepier. No. 1,425,725; Aug. 15.
 Locks and tool therefor, Loading pin-tumbler. J. S. Bradley, jr. No. 1,437,832; Dec. 5.
 Locks, Cover for. E. L. Teich. No. 1,439,038; Dec. 19.
 Locks, Key-guide for. G. W. Aldeen. No. 1,437,878; Dec. 5.
 Locks, Reinforced ring for pin-tumbler. M. C. Maxwell. No. 1,407,472; Feb. 21.
 Locks, Safety seal for. W. Hughes. No. 1,403,604; Jan. 17.
 Locks, Slot guard for coin-controlled. W. C. Rees. No. 1,434,224; Oct. 31.
 Locket. W. E. Willis. No. 1,412,765; Apr. 11.
 Locomotive. R. N. Chamberlain. No. 1,417,498; May 30.
 Locomotive. A. T. Kasley. No. 1,405,848; Feb. 7.
 Locomotive. W. F. Kiesel, jr. Nos. 1,416,717-18; May 23.
 Locomotive. W. F. Kiesel, jr. No. 1,428,441; Sept. 5.
 Locomotive. F. Ljungström. No. 1,429,746; Sept. 19.
 Locomotive. J. Macleod. No. 1,438,319; Dec. 12.
 Locomotive. W. W. Sloane. No. 1,436,205; Nov. 21.
 Locomotive arch brick. W. Schuttler. No. 1,420,764; June 27.
 Locomotive ash pan. C. T. Westlake. No. 1,410,978; Mar. 28.
 Locomotive blow-off and refill system. S. Otis and F. S. Wichman. No. 1,435,655; Nov. 14.
 Locomotive boilers, Means for automatically regulating the draft in. W. J. McCarroll. No. 1,437,766; Dec. 5.
 Locomotive boilers, Means for effecting draft in. F. Ljungström. No. 1,420,380; June 20.
 Locomotive booster motors, Controlling mechanism for. F. R. Peters. No. 1,425,277; Aug. 8.
 Locomotive-cab construction. V. J. Shepard. No. 1,437,078; Nov. 28.
 Locomotive cabs, Seat for engineers in. B. B. Brittell. No. 1,403,483; Jan. 17.
 Locomotive condenser. F. Ljungström and I. Broberg. No. 1,407,072; Feb. 21.
 Locomotive connecting rods, Bushing tightener for. H. G. Martin and M. H. Newgirk. No. 1,424,505; Aug. 1.
 Locomotive-crane underframe. K. S. Howard. No. 1,409,378; Mar. 14.
 Locomotive cranes and the like, Jib hoist and automatic interlocking device for. W. Ferris. No. 1,428,539; Sept. 12.
 Locomotive cranes, Control means for. P. Burke. No. 1,422,082; July 11.
 Locomotive curtain. A. C. Olson. No. 1,421,293; June 27.
 Locomotive cut-off indicator. W. E. Woodard. No. 1,433,586; Oct. 31.
 Locomotive cylinders, Steam-supply means for. S. H. Lewis. No. 1,438,928; Dec. 12.
 Locomotive draft appliances, Means for centering and aligning. D. Love. No. 1,438,771; Dec. 12.
 Locomotive draft device. L. Prat. No. 1,410,718; Mar. 28.
 Locomotive driving box. C. Atherton. No. 1,418,822; Apr. 25.
 Locomotive driving box. A. T. Kuehner. Nos. 1,425,492-3; Aug. 8.
 Locomotive driving boxes, Lateral-motion appliance for. A. W. Bruce. Nos. 1,414,455-6; May 2.

- Locomotive driving boxes, Lateral-motion appliance for. A. W. Bruce. No. 1,428,625; Sept. 12.
- Locomotive driving boxes, Lateral-motion appliance for. F. F. Scoville. No. 1,430,329; Sept. 26.
- Locomotive driving connection. A. W. Bruce. No. 1,413,317; Apr. 18.
- Locomotive, Geared. W. E. Bouschor. No. 1,435,374; Nov. 14.
- Locomotive, Electric. K. Rushton. No. 1,411,185; Mar. 28.
- Locomotive, Electric. L. Schön. No. 1,418,977; June 6.
- Locomotive, Electric. A. Wallace. No. 1,411,142; Mar. 28.
- Locomotive-engineer's seat. O. Johnson. No. 1,423,855; July 25.
- Locomotive feed-water heater. E. A. Averill. No. 1,412,597; Apr. 11.
- Locomotive fire box. J. T. Anthony. No. 1,402,132; Jan. 3.
- Locomotive fire box. R. J. Himmelright. Nos. 1,402,161-3; Jan. 3.
- Locomotive fire box. L. Parish. No. 1,403,816; Jan. 17.
- Locomotive fire box. A. H. Willett. No. 1,402,198; Jan. 3.
- Locomotive for light railways. F. H. Dutton. No. 1,416,625; May 16.
- Locomotive frames, Jig for assembling. J. P. Sykes and S. R. Limerick. No. 1,425,296; Aug. 8.
- Locomotive furnace construction. R. J. Himmelright. No. 1,417,667; May 30.
- Locomotive grate. A. W. and J. W. Hulson. No. 1,413,986; Apr. 25.
- Locomotive journal lubricator. J. J. Hennessy. No. 1,412,740; Apr. 11.
- Locomotive-journal-turning machine, Portable. C. E. Marsh. No. 1,417,621; May 30.
- Locomotive journals, Lubricator for. J. J. Hennessy. No. 1,412,739; Apr. 11.
- Locomotive journals, Lubricator for. J. J. Hennessy. No. 1,412,741; Apr. 11.
- Locomotive, Mining. T. E. Pray. No. 1,410,596; Mar. 28.
- Locomotive-oiling apparatus. F. Hollemon. No. 1,432,557; Oct. 17.
- Locomotive provided with air cooler for condensing purposes. F. Ljungström. No. 1,429,356; Sept. 19.
- Locomotive provided with condenser. F. Ljungström. No. 1,429,357; Sept. 19.
- Locomotive sander. J. Frantz. No. 1,409,538; Mar. 14.
- Locomotive shaker bars, Lock for. R. C. Hyde. No. 1,412,181; Apr. 11.
- Locomotive shed or the like. N. G. H. Frenne. No. 1,419,964; June 20.
- Locomotive smoke fronts, Removing cranes for. A. T. Kuehner. No. 1,405,555; Feb. 7.
- Locomotive, Steam. J. H. Stannard, sr. No. 1,437,478; Dec. 5.
- Locomotive, Steam-driven. C. Kohler. No. 1,429,596; Sept. 19.
- Locomotive step. P. F. Cunningham. No. 1,409,677; Mar. 14.
- Locomotive stoker. R. E. Jackson and B. O. Yearwood. No. 1,425,322; Aug. 8.
- Locomotive stoker. C. H. Jeffers. No. 1,423,221; July 18.
- Locomotive stoker. N. M. Lower. No. 1,410,687; Mar. 28.
- Locomotive stokers, Driving mechanism for. J. W. Rohrer. No. 1,421,994; July 4.
- Locomotive, Storage-battery. C. A. Pratt. No. 1,424,849; Aug. 8.
- Locomotive, Storage-battery. F. W. Schellentrager and B. E. Clarkson. No. 1,413,686; Apr. 25.
- Locomotive tender. F. Hogg. No. 1,417,322; May 23.
- Locomotive tender. N. M. Lower. No. 1,404,983; Jan. 31.
- Locomotive tenders, Feeding device for. L. Richardson. No. 1,426,675; Aug. 22.
- Locomotive terminal. A. W. Towsley and S. Otis. No. 1,413,365; Apr. 18.
- Locomotive terminal fire-drawing station. S. Otis. No. 1,413,346; Apr. 18.
- Locomotive trailer truck. C. T. Westlake. No. 1,402,983; Jan. 10.
- Locomotive truck and cradle frame. W. M. Sheehan. No. 1,410,962; Mar. 28.
- Locomotive, Turbine-driven. F. Ljungström. No. 1,422,111; July 11.
- Locomotive, Turbine-driven. F. Ljungström. No. 1,437,321; Nov. 28.
- Locomotives, Alarm device for. F. Böhm. No. 1,408,257; Feb. 28.
- Locomotives and analogous constructions, Wear plate for journal boxes of. D. F. Gonware. No. 1,433,685; Oct. 31.
- Locomotives and other automotive machines, Booster appliance for. F. V. De Armand. No. 1,417,302; May 23.
- Locomotives and tenders, Vestibule for. F. J. Cole. No. 1,414,459; May 2.
- Locomotives and tenders, Vestibule for. F. F. Scoville. No. 1,431,693; Oct. 10.
- Locomotives, Armature bearing for railway. N. D. Levin. No. 1,404,306; Jan. 24.
- Locomotives, Ash-pan hanger for. K. Rushton. No. 1,433,418; Oct. 24.
- Locomotives, Closure for front ends of. C. Harter. No. 1,407,858; Feb. 28.
- Locomotives, Condensing system for. C. E. Sayer. No. 1,426,113; Aug. 15.
- Locomotives, Control of booster motors for. W. M. Sheehan. No. 1,413,688; Apr. 25.
- Locomotives, Controlling device for electric. S. W. Farnham. No. 1,425,375; Aug. 8.
- Locomotives, Draft controller for. H. M. Rice. No. 1,428,840; Aug. 22.
- Locomotives, Elastic fixing of the armatures of electric motors upon the driving axles of. R. Hoffmann. No. 1,439,240; Dec. 19.
- Locomotives, Equalizing gear for. E. M. Shannon. No. 1,422,793; July 11.
- Locomotives, Feed-water superheater for. L. G. Plant. No. 1,435,496; Nov. 14.
- Locomotives, Gathering-reel mounting for mine. W. E. Wolfe. No. 1,409,328; Mar. 14.
- Locomotives, Means for supplying live blower steam and smoke-lifter steam in. W. F. Kiesel, jr. No. 1,437,662; Dec. 5.
- Locomotives, Noiseless blower for. H. E. Harris and L. O. Swaim. No. 1,416,954; May 23.
- Locomotives, Quill drive for electric. A. H. Ehle. No. 1,435,056; Nov. 7.
- Locomotives, Spark arrester for. C. S. Chalfant. No. 1,408,075; Feb. 28.
- Locomotives, Steam drifter mechanism for. F. B. Searle. No. 1,423,688; July 25.
- Locomotives, Steam-generating system for. J. P. Badenhhausen. No. 1,404,420; Jan. 24.
- Locomotives, Switch system for mine. W. E. Wolfe. No. 1,413,250; Apr. 18.
- Locomotives, Tool for facilitating the adjustment of the driving shoes of. C. Guggenbuehler. No. 1,423,795; July 25.
- Locomotives, Tubular heater for the air for combustion of steam. H. Boltshauser. No. 1,438,088; Dec. 5.
- Locomotives, Valve cut-off and speed indicator for. V. Z. Caracristi and A. F. Wallbillich. No. 1,422,832; July 18.
- Log bunk. W. G. White. No. 1,424,330; Aug. 1.
- Log loading and unloading grapple. O. Newlin. No. 1,429,161; Sept. 12.
- Log-loading jack. W. A. Archibald. No. 1,430,717; Oct. 3.
- Log-turning mechanism. M. R. Rawson. No. 1,426,409; Aug. 22.
- Logging blocks, Lubricating system for. O. A. Wirkkala. No. 1,439,349; Dec. 19.
- Logging device. D. G. Manges. No. 1,411,053; Mar. 28.
- Logging engine. S. B. Gorbitt. No. 1,435,290; Nov. 14.
- Logging engine. H. L. Turney. (Reissue.) No. 15,335; Apr. 11.
- Logging hook. G. Betcher. No. 1,423,301; July 18.
- Logging hook. A. Martin. No. 1,430,824; Oct. 3.
- Logging hook. P. H. Shaffer. No. 1,422,228; July 11.
- Logs, etc., Hoisting apparatus for raising sunken. A. J. Zipp. No. 1,406,714; Feb. 14.
- Logwood dyeing. W. A. Felder. No. 1,412,024; Apr. 4.
- Long-stroke vertical-type press. W. R. Beatty. No. 1,406,334; Feb. 14.
- Loom. J. C. Brooks. No. 1,405,096; Jan. 31.
- Loom. J. E. Clark, W. A. Schaffer, and T. E. Clark. No. 1,409,892; Mar. 14.
- Loom. E. G. Loomis. No. 1,423,619; July 25.
- Loom. A. Teal. No. 1,404,170; Jan. 17.
- Loom. W. S. Wells. No. 1,428,406; Sept. 5.
- Loom. E. J. Wilson. No. 1,415,286; May 9.
- Loom. E. J. Wilson. No. 1,428,572; Sept. 12.
- Loom. W. Zeedyk. Nos. 1,428,409-10; Sept. 5.
- Loom and the fabric produced thereby. W. B. Campbell and C. W. Stricker. No. 1,405,274; Jan. 31.
- Loom, Automatic filling-replenishing. W. S. Southwick. No. 1,422,897; July 18.
- Loom, Automatic filling-replenishing. H. W. Youngquist. No. 1,420,901; June 27.
- Loom beam. R. Thornton. No. 1,430,865; Oct. 3.
- Loom, Circular. J. Hirst. No. 1,426,641; Aug. 22.
- Loom, Cross-weaving. G. E. Spofford. No. 1,439,029; Dec. 19.
- Loom dobby, Double-index. H. Bardsley. No. 1,437,126; Nov. 28.
- Loom feeler mechanism. A. R. Dillaber. No. 1,420,529; June 20.
- Loom, Fence-weaving. C. A. Porath. No. 1,426,007; Aug. 15.
- Loom for weaving tufted pile fabrics. C. Alford. No. 1,436,619; Nov. 21.
- Loom harness stop motion. H. M. Smith. No. 1,420,390; June 20.
- Loom having carrier which inserts weft in loop form. E. Smith. No. 1,410,518; Mar. 21.
- Loom heddle frame. O. D. Moreau. No. 1,435,615; Nov. 14.
- Loom, Leno or cross weaving. F. J. Norris. No. 1,416,410; May 16.
- Loom needle mechanism. G. F. Hutchins. No. 1,415,177; May 9.
- Loom picker. W. and Z. Dubois. No. 1,415,161; May 9.
- Loom picker. M. B. Fredericks. No. 1,416,274; May 16.
- Loom, Pile-fabric. M. R. Birmingham. No. 1,407,121; Feb. 21.
- Loom, Plain-net. E. Cavigelli. No. 1,428,756; Sept. 12.
- Loom pulley hub. A. P. Greer. No. 1,436,032; Nov. 21.
- Loom reed. G. Beckers and F. Le Hanne. No. 1,433,525; Oct. 31.

Alphabetical list of inventions—Continued.

- Loom rock-shaft bearing. J. A. Wix. No. 1,422,016; July 4.
- Loom shuttle. J. B. Daudelin. No. 1,413,103; Apr. 18.
- Loom shuttle. S. Krawczyk and A. König. No. 1,416,095; May 16.
- Loom shuttle. A. E. Rhoades. No. 1,430,187; Sept. 26.
- Loom shuttle, Automatically-threading. I. Snow. No. 1,405,452; Feb. 7.
- Loom shuttle, Narrow-fabric. W. J. Maloney. No. 1,411,639; Apr. 4.
- Loom shuttles, Automatically threading. E. S. Stimpson. No. 1,413,807; Apr. 25.
- Loom shuttles, Hand-threading. J. B. Daudelin. No. 1,413,102; Apr. 18.
- Loom stop, Automatic. N. Guzowski. No. 1,434,539; Nov. 7.
- Loom stop motion. S. Kamelgar. No. 1,433,891; Oct. 31.
- Loom temple thread cutter. J. Northrop. No. 1,421,815; July 4.
- Loom transfer mechanism. A. E. Stafford. No. 1,427,421; Aug. 29.
- Loom, Weaving. A. David. No. 1,426,717; Aug. 22.
- Looms. J. C. Brooks. No. 1,426,351; Aug. 22.
- Looms, Antislip attachment for. W. Simmons. No. 1,411,941; Apr. 4.
- Looms, Battery feed for automatic filling-replenishing. A. E. Rhoades. No. 1,417,861; May 30.
- Looms, Bobbin stripper for automatic. J. T. Malloy. No. 1,423,670; July 25.
- Looms, Cloth-roll-stand attachment for. A. B. Smith. No. 1,436,542; Nov. 21.
- Looms, Combined beaming frame and press for. H. Garnett. No. 1,431,449; Oct. 10.
- Looms, Cop-holding skewer for. W. H. Baker. No. 1,416,157; May 16.
- Looms, Counter for. W. Gross. No. 1,435,389; Nov. 14.
- Looms, etc., Device for dampening the warp on. H. Koch. No. 1,421,498; July 4.
- Looms, Drop-wire bar for. H. F. Livermore. No. 1,433,558; Oct. 31.
- Looms, Feeler mechanism for. J. Coldwell. No. 1,418,536; June 6.
- Looms, Feeler mechanism for. C. B. Lane. No. 1,405,522; Feb. 7.
- Looms, Feeler mechanism for. A. E. Rhoades. No. 1,416,510; May 16.
- Looms, Feeler mechanism for. A. E. Rhoades. No. 1,418,471; June 6.
- Looms, Feeler mechanism for. I. Snow. No. 1,405,451; Feb. 7.
- Looms, Feeler mechanism for. I. Snow. (Reissue.) Nos. 1,375-6; June 6.
- Looms, Feeler mechanism for. I. Snow. No. 1,438,563; Dec. 12.
- Looms, Feeler mechanism for. M. L. Stone. Nos. 1,437,825-6; Dec. 5.
- Looms, Feeler motion for. A. E. Rhoades. No. 1,413,784; Apr. 25.
- Looms, Filling clamping and parting means for. H. J. Hedler. No. 1,427,380; Aug. 29.
- Looms, Filling clamping and parting means for. A. E. Rhoades. No. 1,409,314; Mar. 14.
- Looms, Filling clamping and parting means for. A. E. Rhoades. Nos. 1,427,637-9; Aug. 29.
- Looms, Filling clamping and parting mechanism for. A. E. Rhoades. No. 1,418,472; June 6.
- Looms, Filling clamping and parting mechanism for. E. S. Stimpson. Nos. 1,427,422-3; Aug. 29.
- Looms, Filling clamping and parting mechanism for. E. S. Stimpson. No. 1,433,917; Oct. 31.
- Looms, Filling-end clearer for filling-replenishing. A. E. Stafford. No. 1,422,727; July 11.
- Looms, Filling-end-withdrawing means for weft-replenishing. E. S. Stimpson. No. 1,422,728; July 11.
- Looms, Filling-feeler mechanism for automatic. O. Landry. No. 1,420,560; June 20.
- Looms, Filling-grate-clearing means for. J. M. Freeman. No. 1,406,840; Feb. 14.
- Looms for weaving, Shuttle for. J. E. Haughton and G. Berry. No. 1,426,188; Aug. 15.
- Looms for weaving, Stop motion of. H. Haigh. No. 1,425,252; Aug. 8.
- Looms, Harness-operating device for. J. Wilkinson. No. 1,417,220; May 23.
- Looms, Harness stand and stop motion for. E. M. Wharton and J. W. Jones. No. 1,434,274; Oct. 31.
- Looms, Heddle for. P. A. Wagner. No. 1,413,949; Apr. 25.
- Looms, Let-off mechanism for. R. Glaser. No. 1,414,873; May 2.
- Looms, Let-off motion for. S. Ingham. No. 1,421,241; June 27.
- Looms, Magazine for weft-replenishing. R. Crompton, W. E. Woodman, and R. J. Adams. No. 1,430,005; Sept. 26.
- Looms, Misthreading device for weft-replenishing. R. Crompton and W. E. Woodman. No. 1,408,171; Feb. 23.
- Looms, Motor drive for. D. C. Leonard. No. 1,406,878; Feb. 14.
- Looms, Operating mechanism for power-driven. A. Honegger. No. 1,418,646; June 6.
- Looms, Picker buffer for. J. T. Thurston. No. 1,417,954; May 30.
- Looms, Picker-stick check for. W. F. Clayton. No. 1,421,172; June 27.
- Looms, Picker-stick check for. H. W. Youngquist. No. 1,428,739; Sept. 12.
- Looms, Reed for. P. A. Wagner. No. 1,413,950; Apr. 25.
- Looms, Replenishing mechanism for multicolor. H. ter Kuile. No. 1,423,279; July 18.
- Looms, Self-threading shuttle eye for automatic. C. J. Kelly and H. H. Shumway, jr. No. 1,433,208; Oct. 24.
- Looms, Shuttle-catcher box for weft-replenishing. S. S. Jackson. No. 1,434,211; Oct. 31.
- Looms, Shuttle-clearing means for filling-replenishing. H. W. Youngquist. No. 1,431,557; Oct. 10.
- Looms, Shuttle guard for. W. G. Fisher. No. 1,406,835; Feb. 14.
- Looms, Stop mechanism for. J. B. Ouellette. No. 1,408,773; Mar. 7.
- Looms, Stop mechanism for. J. B. Ouellette. No. 1,410,831; Mar. 28.
- Looms, Stop motion for. C. E. Vanhousebrouck. No. 1,424,956; Aug. 8.
- Looms, Swell check for. E. Lavallee. No. 1,408,010; Feb. 28.
- Looms, Thin-place preventer for. I. Snow. No. 1,437,824; Dec. 5.
- Looms, Thread-cutting temple for. E. A. Gagnon. No. 1,437,377; Nov. 28.
- Looms, Tight pulley for. E. D. Roy and E. W. Hudson. No. 1,421,100; June 27.
- Looms, Transferring mechanism for automatic filling-replenishing. E. Martin. No. 1,417,541; May 30.
- Looms, Warp stop mechanism for. I. Snow. No. 1,438,564; Dec. 12.
- Looms, Warp stop motion for. A. E. Rhoades. No. 1,405,441; Feb. 7.
- Looms, Warp stop motion for. E. S. Stimpson. Nos. 1,409,425-8; Mar. 14.
- Looms, Warp stop motion for. E. S. Stimpson. No. 1,418,494; June 6.
- Looms, Warp take-up and tensioning mechanism for. S. K. Oliver. No. 1,423,729; July 25.
- Looms, Warp-tension-locking mechanism for. A. E. Rhoades. No. 1,427,636; Aug. 29.
- Looms, Weft-feeler device for. C. A. Carlson. No. 1,429,126; Sept. 12.
- Looms, Weft-replenishing mechanism for. S. S. Jackson. No. 1,407,423; Feb. 21.
- Looms, Weft-replenishing mechanism for. J. Whittaker, R. Bradshaw, and J. Briggs. No. 1,431,348; Oct. 10.
- Looms, Whip roll for. W. B. Williams. No. 1,414,850; May 2.
- Looms, Wire motion for. J. F. Benoit. No. 1,421,897; July 4.
- Looms, Woven-in knife for pile-fabric. T. Bachofen. No. 1,418,512; June 6.
- Loop ends, Anchor or tie for. G. D. Slaymaker. No. 1,408,230; Feb. 28.
- Loop taker. K. C. Dickson. No. 1,431,380; Oct. 10.
- Looping machine. N. Yamamoto. No. 1,402,390; Jan. 3.
- Loose-leaf holder. J. W. Brady. Nos. 1,439,139-40; Dec. 19.
- Loose-leaf or card-index device. L. C. Ridge. No. 1,406,226; Feb. 14.
- Lorgnette. I. Mandeville. No. 1,415,599; May 9.
- Lotion. I. O. Foote. No. 1,427,199; Aug. 29.
- Lotion, Cosmetic. T. J. Newlyn. No. 1,408,384; Feb. 28.
- Low-voltage installations, Wire-clamping terminal for. G. Steiner and J. Bohli. No. 1,424,219; Aug. 1.
- Low-water alarm. W. S. Jackson. No. 1,408,024; Feb. 7.
- Low-water alarm. J. G. Talmage. No. 1,405,953; Feb. 7.
- Lowering apparatus for articles. G. M. French and W. B. Pavey. No. 1,411,337; Apr. 4.
- Lubricant cup. C. L. Floyd. No. 1,402,239; Jan. 10.
- Lubricant demonstrator. F. I. Cannon. No. 1,410,456; Mar. 21.
- Lubricant-stick holder. F. E. Eichelberger. No. 1,438,026; Dec. 5.
- Lubricant trap. R. L. Skinner. No. 1,435,561; Nov. 14.
- Lubricant, Wire-drawing. A. Brann. No. 1,409,658; Mar. 14.
- Lubricating apparatus. A. V. Gullborg. No. 1,404,758; Jan. 31.
- Lubricating apparatus. R. Wood. No. 1,414,610; May 2.
- Lubricating compound. D. M. Sorenson. No. 1,414,227; Apr. 25.
- Lubricating coupling. P. C. Smith. No. 1,408,836; Mar. 7.
- Lubricating cups, Locking device for. H. Batchelor. No. 1,412,993; Apr. 18.
- Lubricating device. R. L. Barnett. No. 1,424,974; Aug. 8.
- Lubricating device. C. A. Campbell. No. 1,402,051; Jan. 3.
- Lubricating device. J. J. Carney. No. 1,434,589; Nov. 7.
- Lubricating device. C. T. Coe. No. 1,419,821; June 13.
- Lubricating device. G. Fuegel and H. Schmid. No. 1,421,681; July 4.
- Lubricating device. F. M. Furber. No. 1,410,096; Mar. 21.
- Lubricating device. B. G. Mason. No. 1,436,454; Nov. 21.
- Lubricating device. I. Scranton. No. 1,432,496; Oct. 17.
- Lubricating device. W. P. Seng. No. 1,421,582; July 4.
- Lubricating device. L. H. Shover. No. 1,426,918; Aug. 22.

Alphabetical list of inventions—Continued.

- Lubricating device. C. W. Tomlin. No. 1,412,223; Apr. 11.
- Lubricating device. E. Wylde and T. Brady. No. 1,411,654; Apr. 4.
- Lubricating device, Spring-. E. H. Buckley. No. 1,413,963; Apr. 25.
- Lubricating emulsion. J. A. De Cew. No. 1,428,148; Sept. 5.
- Lubricating mechanism. H. B. Halvorsen. No. 1,417,057; May 23.
- Lubricating mechanism. H. C. Johansen. No. 1,417,059; May 23.
- Lubricating mechanism for compressors. H. B. Halvorsen. No. 1,417,058; May 23.
- Lubricating nipples, Cleaning implement for. C. W. Manzel. No. 1,420,123; June 20.
- Lubricating pitman. A. W. Field. No. 1,431,222; Oct. 10.
- Lubricating system. O. C. Baldwin. No. 1,429,268; Sept. 19.
- Lubricating system. J. Bliss. No. 1,411,202; Mar. 28.
- Lubricating system. G. C. Brown. No. 1,427,190; Aug. 29.
- Lubricating system. T. J. Bruce. No. 1,435,103; Nov. 7.
- Lubricating system. D. F. Fesler. No. 1,408,573; Mar. 7.
- Lubricating system. P. H. Gaskins. No. 1,411,914; Apr. 4.
- Lubricating system. P. H. Gaskins. Nos. 1,429,233-4; Sept. 19.
- Lubricating system. P. H. Gaskins. No. 1,433,612; Oct. 31.
- Lubricating system. R. G. Goldman. No. 1,406,847; Feb. 14.
- Lubricating system. J. L. Kimball. No. 1,405,039; Jan. 31.
- Lubricating system. B. H. Skelly. No. 1,414,592; May 2.
- Lubricating system. H. E. Warren. No. 1,430,867; Oct. 3.
- Lubricating system, Electropneumatic. C. F. Hooyer. No. 1,409,178; Mar. 14.
- Lubricating system, Splash. L. M. and M. A. Endres. No. 1,420,083; June 20.
- Lubricating tools, Making self-. J. B. Moore. No. 1,409,753; Mar. 14.
- Lubrication apparatus provided with pumps, Forced-. K. G. F. Hellsing. No. 1,421,470; July 4.
- Lubrication device, Dustproof. E. C. Critchlow. No. 1,419,229; June 13.
- Lubricator. *See—* Journal lubricator.
- Bearing lubricator. Leaf-spring lubricator.
- Chassis lubricator. Locomotive-journal lubricator.
- Condenser-apron lubricator. Spring lubricator.
- Diastock lubricator. Valve-stem lubricator.
- Driving-box lubricator. Vehicle spring lubricator.
- Engine lubricator.
- Force-feed lubricator.
- Lubricator. C. H. Allen. No. 1,405,375; Jan. 31.
- Lubricator. G. Bignell. No. 1,435,276; Nov. 14.
- Lubricator. C. B. Bradford. No. 1,419,210; June 13.
- Lubricator. T. E. Coleman. No. 1,429,191; Sept. 12.
- Lubricator. C. C. Crispin. No. 1,415,997; May 16.
- Lubricator. E. C. Critchlow. No. 1,437,169; Nov. 28.
- Lubricator. S. P. Jones. No. 1,421,487; July 4.
- Lubricator. L. Kassandra. No. 1,425,972; Aug. 15.
- Lubricator. L. E. Osborne. No. 1,423,011; July 18.
- Lubricator. E. Piquere. (Reissue). No. 15,503; Dec. 5.
- Lubricator. O. Swanson. No. 1,420,199; Sept. 26.
- Lubricator. E. Tatschke. No. 1,417,216; May 23.
- Lubricator. R. H. Yale. No. 1,406,320; Feb. 14.
- Lubricator control, Automatic. N. T. and F. E. Cline. No. 1,436,432; Nov. 21.
- Lubricator cup and insertable container. F. W. Vodoz. No. 1,412,638; Apr. 11.
- Lubricator-feed-converting means. A. W. Edeberg. No. 1,418,867; June 6.
- Lubricator, Force-feed. J. E. Osmer. No. 1,412,890; Apr. 18.
- Lubricator heater. W. J. Schlacks. No. 1,407,775; Feb. 28.
- Lubricator, Leaf-spring. W. Grus, Jr. No. 1,405,582; Feb. 7.
- Lubricator, Locomotive-journal. J. J. Hennessy. No. 1,416,710; May 23.
- Lug. J. A. Bentz. No. 1,402,562; Jan. 3.
- Lug box. G. X. Wendling. No. 1,438,468; Dec. 12.
- Lug, Hillside. T. H. Jacob. No. 1,410,255; Mar. 21.
- Lug strap. R. T. Powers. No. 1,406,487; Feb. 14.
- Lug-strap support. R. T. Powers. No. 1,418,396; June 6.
- Luggage and baggage carrying apparatus. B. H. Christlieb. No. 1,406,539; Feb. 14.
- Luggage carrier. J. M. Born. No. 1,418,426; June 6.
- Luggage carrier. M. A. Ford. No. 1,407,994; Feb. 28.
- Luggage carrier. R. H. Prichard. No. 1,420,445; June 20.
- Luggage carrier. R. H. Pritchard. No. 1,428,706; Sept. 12.
- Luggage carrier. G. A. Roth. Nos. 1,431,429-30; Oct. 10.
- Luggage carrier and table. E. T. Reich. No. 1,431,685; Oct. 10.
- Luggage carrier, Collapsible. C. H. Hapf, jr. No. 1,426,644; Aug. 22.
- Luggage, Garment-holding device for traveling. D. Witbeck. No. 1,438,738; Dec. 12.
- Luggage rack. F. M. Stoll. No. 1,427,173; Aug. 29.
- Luggage retainer. L. M. Boyle. No. 1,432,154; Oct. 17.
- Lumber carrier. F. C. Carstarphen. No. 1,436,351; Nov. 21.
- Lumber carrier. C. F. Gerlinger. No. 1,422,958; July 18.
- Lumber, Composite. B. C. Rockwell. No. 1,409,410; Mar. 14.
- Lumber cut-off machine. C. Johnson. No. 1,427,297; Aug. 29.
- Lumber drier. B. D. Curtis. No. 1,407,786; Feb. 28.
- Lumber-grading machine. J. G. McDonough. No. 1,436,998; Nov. 28.
- Lumber jack. O. Larson. No. 1,411,044; Mar. 28.
- Lumber-joining machine. G. H. Dickerson and A. Vanderveld. No. 1,420,976; June 27.
- Lumber-roller bracket. J. B. Hawks. No. 1,428,328; Sept. 5.
- Lumber sling. J. Maher. No. 1,405,052; Jan. 31.
- Lumber substitute. G. B. Stryker and F. A. Mantel. No. 1,436,061; Nov. 21.
- Lumber to be cut, Device for holding. M. T. Richards. No. 1,420,218; June 20.
- Lumber trimmer. J. H. Berryman. No. 1,410,156; Mar. 21.
- Luminous article and making same. W. H. Dey. No. 1,422,841; July 18.
- Luminous composition. F. N. Hering. No. 1,407,534; Feb. 21.
- Luminous devices, Manufacturing self-. R. W. Erdle. No. 1,410,741; Mar. 28.
- Luminous dobber. H. F. Wagner. No. 1,437,284; Nov. 28.
- Luminous images, Apparatus for the production of. M. Curie and M. E. Varinois. No. 1,418,240; May 30.
- Luminous letter. J. P. Sheridan. No. 1,409,595; Mar. 14.
- Luminous log. F. W. Zei and F. G. Gross. No. 1,432,942; Oct. 24.
- Luminous material, Apparatus for facilitating the application of. R. W. Erdle. No. 1,419,662; June 13.
- Luminous materials, Device for measuring and feeding. R. W. Erdle. No. 1,418,292; June 6.
- Lunch box. J. F. Tingstrom. No. 1,412,761; Apr. 11.
- Lunch box, Combination. F. H. Jenkins. No. 1,411,032; Mar. 28.
- Lunch kit. W. M. Potter. No. 1,404,405; Jan. 24.
- Lunch kit. E. H. Williamson and T. N. Richardson. No. 1,420,598; June 20.
- Lunch kit or the like. E. H. Williamson. No. 1,438,417; Dec. 12.
- Lunette bracket. L. B. Craig. No. 1,423,196; July 18.
- Lure, Trolling. T. G. McClanahan. No. 1,422,457; July 11.
- Luting composition. F. R. Schulz. No. 1,437,155; Nov. 28.
- Luting machine. J. W. Walker. No. 1,435,352; Nov. 14.
- Lye solution, Means for regulating and controlling the strength of. S. J. Dunkley. No. 1,429,129; Sept. 5.
- Macaroni machine. A. F. Terenzi and E. Raduhn. No. 1,436,063; Nov. 21.
- Macaroni-trimming machine. F. I. Rutledge. No. 1,406,497; Feb. 14.
- Machine belts, Tool for replacing. N. Davis. No. 1,410,383; Mar. 21.
- Machine board, Rotatable. S. M. Child. No. 1,401,960; Jan. 3.
- Machine brake. A. Novick. No. 1,426,092; Aug. 15.
- Machine coupling, Detachable. J. J. Hogan. No. 1,413,119; Apr. 18.
- Machine element. P. E. Henninger. No. 1,421,231; June 27.
- Machine element. J. Rosbach. No. 1,402,797; Jan. 10.
- Machine for inserting fastenings. F. L. Mackenzie. No. 1,410,694; Mar. 28.
- Machine guard. B. A. Miller. No. 1,430,918; Oct. 3.
- Machine-gun mount. H. B. Inglis. No. 1,432,756; Oct. 24.
- Machine tool. E. Anderson. No. 1,408,428; Mar. 7.
- Machine tool. A. S. Burnett. No. 1,419,812; June 13.
- Machine tool. L. E. Jolls. (Reissue). No. 15,507; Dec. 19.
- Machine tool. C. D. Oesterlein and L. H. Blood. No. 1,405,622; Feb. 7.
- Machine-tool driving mechanism. C. Bouillon. No. 1,407,834; Feb. 28.
- Machine-tool tables, Easy-start reversing mechanism for. W. F. Fraser. No. 1,439,304; Dec. 19.
- Machine tool, Universal hand-operated. M. Linotte. No. 1,404,533; Jan. 24.
- Machine tools, Apparatus for determining the position of. F. A. Richardson. No. 1,404,545; Jan. 24.
- Machine tools, Cross-feed mechanism for. C. H. Norton. No. 1,416,054; May 16.
- Machine tools, elevators, etc., Reverse pulley for. B. W. Smith. No. 1,420,502; June 20.
- Machine wrench. R. Klein and G. B. Ritzel. No. 1,429,886; Sept. 19.
- Machines and tools, Movable platform for positioning special. B. T. Andren. No. 1,408,156; Feb. 28.
- Machines having air separators, Automatic feed regulator for. P. J. Gagnon, Jr. No. 1,421,343; June 27.
- Machines or vehicles, Apparatus for checking or recording the performance or running of. A. Beaudinet. No. 1,114,324; Apr. 25.
- Machines, Safety attachment and locking device for. J. N. Selvig and R. Jongedyk. No. 1,412,974; Apr. 18.
- Machines to be driven, Device for fixing driving engines or electromotors to. J. Schröder. No. 1,428,301; Sept. 5.
- Machinery and means for lubricating same, Pedestal for supporting shafting and other rotating portions of. J. King. No. 1,405,226; Jan. 31.

Alphabetical list of inventions—Continued.

- Machinery and other apparatus, Plant for the manufacture of. W. H. Morgan. No. 1,420,730; June 27.
- Machinery repair washer, Sectional. C. N. Barton. No. 1,418,052; May 30.
- Machining work pieces, Apparatus for. F. E. Bright. No. 1,420,683; June 27.
- Magazine brace. S. J. Morgan. No. 1,425,270; Aug. 8.
- Magazine catch and release. G. Hammond. No. 1,405,685; Feb. 7.
- Magazine, Motion-picture-apparatus. R. W. Pittman. No. 1,403,522; Jan. 17.
- Magazine with blanks, Supplying a. J. Bricken. No. 1,436,644; Nov. 28.
- Magnesia from lime and preparation of water therefor, Separation of. R. A. W. Black. No. 1,436,230; Nov. 21.
- Magnesia plaster having powdered peanut shells as a constituent. R. Yamamoto. No. 1,436,747; Nov. 28.
- Magnesia, Production of. H. P. Bassett. No. 1,405,388; Feb. 7.
- Magnesium carbonate, Producing. C. Cramer. No. 1,427,444; Aug. 29.
- Magnet-locking device. O. Thompson. No. 1,404,910; Jan. 31.
- Magnetic core and making same. G. W. Eimen. No. 1,403,305; Jan. 10.
- Magnetic distortion motor. M. A. Schwartz. No. 1,431,545; Oct. 10.
- Magnetic fields, Magnetometer for measuring weak. J. L. V. da Cruz. No. 1,417,803; May 30.
- Magnetic lifting device. A. D. Wood. No. 1,432,822; Oct. 24.
- Magnetic lock, Automatic. E. M. Watson. No. 1,405,369; Jan. 31.
- Magnetic material, Apparatus for moving articles of. D. J. Angus. No. 1,406,963; Feb. 21.
- Magnetic mechanism, Operating means for permanent. W. S. Leven and E. Wiet. No. 1,403,791; Jan. 17.
- Magnetic separating process and apparatus. J. P. Bothke and R. H. Stearns. No. 1,414,170; Apr. 25.
- Magnetic separator. W. E. F. Bradley. No. 1,425,235; Aug. 8.
- Magnetic separator. G. Ullrich. No. 1,404,074; Jan. 17.
- Magnetic speedometer. A. C. Wood. No. 1,415,079; May 9.
- Magneto. H. G. Cox. No. 1,435,281; Nov. 14.
- Magneto. H. F. Geist. No. 1,428,083; Sept. 5.
- Magneto. A. H. Hyndman. No. 1,403,689; Jan. 17.
- Magneto. A. H. Hyndman. No. 1,407,421; Feb. 21.
- Magneto. A. C. Kleckner. No. 1,417,746; May 30.
- Magneto drive. F. D. Howe. No. 1,413,479; Apr. 18.
- Magneto drive. E. A. Johnston. No. 1,409,006; Mar. 7.
- Magneto, Driving-pulley. R. A. Oglesby. No. 1,408,904; Mar. 7.
- Magneto-electric machine. C. Olivetti. No. 1,423,141; July 18.
- Magneto-electric machine. A. P. Young. No. 1,427,671; Aug. 29.
- Magneto, Flywheel. A. Kagenmaier. No. 1,424,201; Aug. 1.
- Magneto generator. W. H. Chapman. No. 1,416,789; May 23.
- Magneto machines, Armature for. J. R. Stark. No. 1,422,145; July 11.
- Magneto, Oscillating. F. W. Andrew. No. 1,416,670; May 23.
- Magneto oscillator. H. O. Putt. Nos. 1,423,734-5; July 25.
- Magneto plug. H. J. Hoegg. No. 1,410,251; Mar. 21.
- Magneto, Pocket. R. K. Brewster. No. 1,437,223; Nov. 28.
- Magneto recharger. C. S. Price. No. 1,408,532; Mar. 7.
- Magneto starter. J. F. Adye. No. 1,436,467; Nov. 21.
- Magneto, Starting. W. E. Schwarzmann. No. 1,412,972; Apr. 18.
- Magnetos, Actuating mechanism for. P. Brown. No. 1,427,718; Aug. 29.
- Magnetos, Collector and distributor system for high-tension. H. O. Putt. No. 1,416,507; May 16.
- Magnetos, Contact breaker for. M. Dutten. No. 1,432,679; Oct. 17.
- Magnets, Constructing permanent. F. A. Swanson. No. 1,432,920; Oct. 24.
- Mail and coin holding device. H. O. Tebbetts. No. 1,419,179; June 13.
- Mail-bag catcher. R. H. Barnitz. No. 1,416,932; May 23.
- Mail-bag catcher. J. C. Cain, jr. No. 1,436,149; Nov. 21.
- Mail-bag catcher and deliverer. W. P. McCord. No. 1,409,349; Mar. 14.
- Mail-bag catching and delivering apparatus. J. G. Welch. No. 1,430,605; Oct. 3.
- Mail-bag-delivery apparatus. G. D. Bremner and E. E. Troutman. No. 1,418,064; May 30.
- Mail-bag lock. R. W. E. Smith. No. 1,433,858; Oct. 31.
- Mail bag mechanism. J. A. Starr. No. 1,424,853; Aug. 8.
- Mail-bag receiver. D. W. Millsaps. No. 1,425,406; Aug. 8.
- Mail-bag receiving and delivering apparatus. J. T. Hefner. No. 1,408,595; Mar. 7.
- Mail box. W. M. Chapman. No. 1,438,518; Dec. 12.
- Mail box. F. P. de Nobili. No. 1,404,099; Jan. 17.
- Mail box. O. O. Kolstad. No. 1,437,523; Dec. 5.
- Mail box. R. Lindsay. No. 1,432,881; Oct. 24.
- Mail box. W. Schlarbaum. No. 1,404,703; Jan. 24.
- Mail box. G. R. Wagenseller. No. 1,435,676; Nov. 14.
- Mail box and sign holder, Combined. J. W. Connery. No. 1,435,379; Nov. 14.
- Mail-box bracket and signal. H. E. Trekill. No. 1,430,476; Sept. 26.
- Mail box in house walls. B. T. Pennig. No. 1,423,251; July 18.
- Mail box, Rural. W. H. Dooley. No. 1,432,843; Oct. 24.
- Mail-box signal. H. E. Gustafson. No. 1,405,583; Feb. 7.
- Mail box, Signal. I. M. Semenov. No. 1,436,609; Nov. 21.
- Mail box, Stamp-canceling. E. L. Andersen. No. 1,404,182; Jan. 24.
- Mail-box support. S. L. Wright. No. 1,440,043; Dec. 26.
- Mail box, Swinging. A. Munson. No. 1,411,867; Apr. 4.
- Mail carrier. H. W. Antholz. No. 1,404,679; Jan. 24.
- Mail carrier. F. E. Poston and J. S. Humphries. No. 1,430,515; Sept. 26.
- Mail chute. J. W. Cutler. No. 1,413,902; Apr. 25.
- Mail delivery and receiving device. C. L. Biggs. No. 1,425,167; Aug. 8.
- Mail-delivery apparatus. J. A. Chambers. No. 1,405,097; Jan. 31.
- Mail-distributing apparatus. C. O. Barnes. No. 1,410,446; Mar. 21.
- Mail distributor. G. M. Kitzmiller. No. 1,425,387; Aug. 8.
- Mail-exchange device. J. E. Glass. No. 1,418,252; May 30.
- Mail-folding machine. R. W. Barggren. No. 1,436,005; Nov. 21.
- Mail matter, Envelope for registering. W. I. Leary. No. 1,436,885; Nov. 28.
- Mail-operating device. I. M. Uppercu. No. 1,439,927; Dec. 26.
- Mail or the like box. C. E. Arnold. No. 1,414,062; Apr. 25.
- Mail-pouch catcher, Automatic. R. Frick. No. 1,420,374; June 20.
- Mail receptacle, Letter-carrier's folding. M. L. Patzkowski. No. 1,431,032; Oct. 3.
- Mail sack. E. M. Smith. No. 1,418,403; June 6.
- Mailing matter, Apparatus for enveloping. F. McCarthy. (Reissue.) No. 15,385; June 13.
- Mailing wrapper. H. L. Greve. No. 1,432,685; Oct. 17.
- Mallet. M. Cohen. No. 1,419,615; June 13.
- Malted machine. S. Sigal. No. 1,418,099; May 30.
- Manhole cover. O. C. Elbert. No. 1,438,172; Dec. 12.
- Manhole frame and cover. L. Gschwind. No. 1,417,377; May 23.
- Man pack carrier. J. E. McNary. No. 1,407,290; Feb. 21.
- Mandrel. R. E. Jenkinson. No. 1,431,118; Oct. 3.
- Mandrel. O. Schlaupitz. No. 1,431,761; Oct. 10.
- Mandrel and associated members of lathes. A. Drummond. No. 1,415,229; May 9.
- Mandrel, Expanding. F. M. B. Fennimore. No. 1,433,992; Oct. 31.
- Mandrel, Self-gripping. E. O. Goordman. (Reissue.) No. 15,390; June 20.
- Manganese-containing bodies, Preparing. A. A. Wells. No. 1,412,986; Apr. 18.
- Manganese dioxide and nitric acid, Obtaining. C. J. Reed. No. 1,415,395; May 9.
- Mangle. A. R. Gustafson. No. 1,435,157; Nov. 14.
- Mangle. J. Norrie. No. 1,415,262; May 9.
- Mangle. C. H. Ramsey. No. 1,409,405; Mar. 14.
- Manicure case. S. H. Kaufmann. No. 1,424,571; Aug. 1.
- Manicure device. P. Serene. No. 1,428,564; Sept. 12.
- Manicure implement. J. D. Campbell. No. 1,433,936; Oct. 31.
- Manicure implement. N. Wiesenbergs. No. 1,426,696; Aug. 22.
- Manicuring instrument. M. H. Burk and E. M. Currier. No. 1,424,876; Aug. 8.
- Manicuring instrument. A. F. Pozdeck. No. 1,428,396; Sept. 5.
- Manifold. A. A. Bailey. No. 1,418,270; June 6.
- Manifold. H. T. Smith. No. 1,421,034; June 27.
- Manifold. W. J. Vogel. No. 1,402,122; Jan. 3.
- Manifold and carburetor. C. H. Bennett. No. 1,435,689; Nov. 14.
- Manifold bracket. E. D. Romans. No. 1,417,691; May 30.
- Manifold clamp. J. F. Seichter. No. 1,402,381; Jan. 3.
- Manifold, Combined intake and exhaust. G. B. Rait. No. 1,431,896; Oct. 10.
- Manifold, Combined intake and exhaust. R. C. Hoffman. No. 1,432,394; Oct. 17.
- Manifold, Combined intake and exhaust. A. S. Krotz. No. 1,434,353; Oct. 31.
- Manifold, Combined intake and exhaust. C. R. Short. No. 1,406,232; Feb. 14.
- Manifold, Exhaust. W. Krafe. No. 1,431,120; Oct. 3.
- Manifold heater. H. Nichols. No. 1,426,592; Aug. 22.
- Manifold heater. L. L. Parrish. No. 1,402,884; Jan. 10.
- Manifold, Intake. W. Krafe. No. 1,431,121; Oct. 3.
- Manifold mixing device, Intake. J. C. Haskett and C. A. Stubbs. No. 1,410,915; Mar. 28.
- Manifold, Valveless. J. D. Maxwell. No. 1,409,563; Mar. 14.
- Manifolding device, Electrically-operated. J. Q. Sherman and A. W. Metzner. No. 1,437,949; Dec. 5.

- Manifolding register. J. Q. Sherman. No. 1,431,266; Oct. 10.
- Manifolding sheet. F. R. McClusky. No. 1,423,808; July 25.
- Manipulator. L. Jones. No. 1,418,932; June 6.
- Manometer. C. W. Stanchiffe. No. 1,421,739; July 4.
- Manure and making same, Nondusting germ-killing lime-nitrogen. H. S. Gerdes. No. 1,405,202; Jan. 31.
- Manure carrier. J. H. Klug. No. 1,434,826; Nov. 7.
- Manure-fork attachment. D. Kundert. No. 1,434,828; Nov. 7.
- Manure loader. B. A. McAllister. No. 1,420,118; June 20.
- Manure loader. R. J. Newcomb. No. 1,423,676; July 25.
- Manure, Manufacture of a phosphatic. H. Plauson. No. 1,434,749; Nov. 7.
- Manure spreader. O. Bucklin. No. 1,433,175; Oct. 24.
- Manure spreader. H. H. Varland. No. 1,435,766; Nov. 14.
- Manure spreader. C. W. Weightman. No. 1,425,729; Aug. 15.
- Manuscript holder. H. M. Mohr. No. 1,431,834; Oct. 10.
- Map cabinet. R. M. Meyer. No. 1,438,128; Dec. 5.
- Map, Guide. A. A. Soderberg. No. 1,408,417; Feb. 28.
- Map hanger. R. M. Chunn. No. 1,405,284; Jan. 31.
- Map holder. W. E. Haskell. No. 1,429,874; Sept. 19.
- Map holder. H. Woodhouse. No. 1,430,207; Sept. 26.
- Map holder. W. W. Wright. No. 1,421,883; July 4.
- Map holder, Loose-leaf. F. H. Swanson. No. 1,434,511; Nov. 7.
- Map meter. A. Jansson. No. 1,405,417; Feb. 7.
- Map, Road. H. C. Kessler. No. 1,424,919; Aug. 8.
- Marcel iron. H. J. Pahlka. No. 1,412,485; Apr. 11.
- Marcel-wave device. H. Zinn. No. 1,424,230; Aug. 1.
- Marcel waver. H. F. Nash. No. 1,408,769; Mar. 7.
- Margarine compounds and other substances, Apparatus for making. H. Borgen and G. W. Wadsworth. No. 1,418,357; June 6.
- Marine table. A. Bulinski. No. 1,438,020; Dec. 5.
- Marker and folder, Material. A. C. Witt. No. 1,438,568; Dec. 12.
- Marker, Corn-planter. C. Mineart and H. J. Cole. No. 1,403,908; Jan. 17.
- Marker, Illuminated. E. H. Bausman. No. 1,423,641; July 25.
- Marker, Quick-equalizing. F. W. Deitz. No. 1,428,582; Sept. 12.
- Marking articles, Machine for. W. E. Choate. No. 1,406,537; Feb. 14.
- Marking articles, Machine for. W. A. Pierson. No. 1,425,280; Aug. 8.
- Marking device. M. E. Hayman. No. 1,431,522; Oct. 10.
- Marking devices, Type-holding means for. A. G. Hupfel. No. 1,422,268; July 11.
- Marking machine. E. T. Benson. No. 1,423,903; July 25.
- Marking machine. E. Douglas. No. 1,420,187; June 20.
- Marking machine. F. A. Putnam. No. 1,425,285; Aug. 8.
- Marking machine. E. W. Smith and D. A. Cabot. No. 1,433,191; Dec. 12.
- Marking machine, Electric fruit. L. Neuenschwander. No. 1,421,539; July 4.
- Marking machine, Package. R. F. Stuart. No. 1,417,781; May 30.
- Marking tool. S. A. Weaver. No. 1,403,213; Jan. 10.
- Marketing bag. W. H. Knip. No. 1,419,739; June 13.
- Mask. M. Priluker. No. 1,417,201; May 23.
- Mask for boxing pupils, Protecting. N. Lacrotte. No. 1,432,471; Oct. 17.
- Mask, Respirator. J. W. Knoblock. No. 1,410,927; Mar. 28.
- Mason's scotch. R. C. Kennedy. No. 1,430,908; Oct. 3.
- Massage apparatus. C. Arnao. No. 1,421,756; July 4.
- Massage apparatus. J. A. Mashek. No. 1,420,049; June 20.
- Massage apparatus, Electric. H. Csanyi. No. 1,433,184; Oct. 24.
- Massage device. J. Kercher. No. 1,429,594; Sept. 19.
- Massage pad, Sanitary. C. Wolfsohn. No. 1,425,158; Aug. 8.
- Massaging device. M. L. Goldberg. No. 1,433,485; Dec. 12.
- Mast, Control. H. C. Cray. No. 1,432,970; Oct. 24.
- Mast coupling. G. F. Gray. No. 1,419,251; June 13.
- Mast or pole together, Means for securing the sections of. F. Jaecle and P. Mehlhorn. No. 1,420,430; June 20.
- Mast saddle. J. F. Godfrey. No. 1,427,950; Sept. 5.
- Mast, stack, or the like. P. E. Dutcher. No. 1,408,868; Mar. 7.
- Mast top. G. F. Watts. No. 1,423,377; July 18.
- Mat: See—
Rubber mat. Traction mat.
- Mat. R. J. Bell. No. 1,425,830; Aug. 15.
- Mat. L. J. Goldberg. No. 1,438,956; Dec. 19.
- Mat. R. H. Phillips. No. 1,422,887; July 18.
- Mat. W. R. Woodward. No. 1,414,243; Apr. 25.
- Mat and luggage carrier, Combined. F. A. Ruff. No. 1,418,676; June 6.
- Mat for vehicles, Tread. W. L. Dodge. No. 1,413,265; Apr. 18.
- Mat-holding device. W. E. Bassett. No. 1,411,469; Apr. 4.
- Matting. W. J. Reilly. No. 1,408,828; Mar. 7.
- Mats for hothouses, Machine for sewing. G. Arbin. No. 1,413,511; Apr. 18.
- Mats, Lock and shield for foot. F. B. Helles. No. 1,406,186; Feb. 14.
- Mats, Making. W. J. Kent. No. 1,413,663; Apr. 25.
- Match. W. E. Faye. No. 1,402,754; Jan. 10.
- Match box. O. K. Boyett. No. 1,412,671; Apr. 11.
- Match box. E. W. Murphy. No. 1,404,186; Jan. 17.
- Match box. E. Zeschmar. No. 1,436,749; Nov. 28.
- Match-box attachment. J. Warren. No. 1,432,372; Oct. 17.
- Match boxes, Apparatus for painting and drying. J. C. Donnelly. No. 1,411,420; Apr. 4.
- Match compositions and products thereof, Treating. W. A. Fairburn. No. 1,406,176; Feb. 14.
- Match holder. J. E. Neahr. No. 1,413,391; Apr. 25.
- Match holder for hats. J. L. Warner. No. 1,418,217; May 30.
- Match machines, Waste collector for. L. E. Parker. No. 1,430,111; Sept. 26.
- Matchmaking machine. V. von Czerweny and E. Blümel. No. 1,419,999; June 20.
- Matchmaking machine. L. Henninger. No. 1,415,641; May 9.
- Matchmaking machines, Collecting apparatus for automatic. L. Henninger. No. 1,419,732; June 13.
- Match packet for advertising purposes. A. W. Graham. No. 1,414,945; May 2.
- Match packet or carton. A. W. Graham. No. 1,414,946; May 2.
- Match packet or carton. A. W. Graham. No. 1,417,729; May 30.
- Match plate, Molder's. J. J. Evans. No. 1,418,703; June 6.
- Match safe. E. Knobf. No. 1,438,120; Dec. 5.
- Match safe and igniting device, Combined. J. E. Neahr. No. 1,432,889; Oct. 24.
- Match scratcher. J. N. Dell. No. 1,425,453; Aug. 8.
- Match scratcher. F. W. Makinster. No. 1,433,393; Oct. 24.
- Matches, cigarettes, and the like, Case for. W. H. Lester. No. 1,432,473; Oct. 17.
- Matches, Machine for packing. W. J. Elder. No. 1,430,891; Oct. 3.
- Matches, Side head construction for. C. W. H. Blood and C. G. Osteman. No. 1,414,618; May 2.
- Matches, Side leg construction for. L. T. Medholdt. No. 1,406,470; Feb. 14.
- Matches without heads, Manufacturing. S. Hatakeyama. No. 1,434,893; Nov. 7.
- Material, Dispenser for fluid. G. A. Loeben. No. 1,403,426; Jan. 10.
- Material-saving device. L. L. Goheen. No. 1,429,282; Sept. 19.
- Materials, Apparatus for drying. B. S. Harrison. No. 1,408,456; Mar. 7.
- Materials, Apparatus for handling. E. H. McConnell. No. 1,407,333; Feb. 21.
- Materials, Apparatus for reducing. R. H. Warren. No. 1,424,697; Aug. 1.
- Materials, Method of and apparatus for drying. B. S. Harrison. No. 1,408,457; Mar. 7.
- Materials, Production of finely-divided. W. K. Lewis and R. E. Wilson. No. 1,433,732; Oct. 31.
- Mathematical instrument. V. L. Mattson. No. 1,419,283; June 13.
- Matrices and for producing color screens therefrom, Method and apparatus for producing. I. Kitzée. No. 1,426,996; Aug. 22.
- Matrices, Center clamp plate for record. G. H. Davis and C. T. Bowman. No. 1,401,966; Jan. 3.
- Matrices, Manufacture of printing-plate. E. E. Novotny. No. 1,410,031; Mar. 21.
- Matrices, Manufacturing. J. L. Rousseau. No. 1,422,137; July 11.
- Matrix cleaner. R. F. Reed. No. 1,425,132; Aug. 8.
- Matrix-making machine. I. N. Zeller. No. 1,423,290; July 18.
- Matrix manufacture. J. L. Rousseau. No. 1,422,136; July 11.
- Matte, Apparatus for the treatment of. J. H. Hickey. No. 1,413,116; Apr. 18.
- Mattress. A. E. Gomes. No. 1,423,416; July 18.
- Mattress. J. T. L. Lavagetto. No. 1,432,875; Oct. 24.
- Mattress. H. T. Malerstein. No. 1,421,274; June 27.
- Mattress. F. Maussner. No. 1,423,954; July 25.
- Mattress. D. Micon. No. 1,428,797; Sept. 12.
- Mattress. W. J. Rimmington. No. 1,421,028; June 27.
- Mattress. F. F. Schmitt. No. 1,420,450; June 20.
- Mattress. S. Weinschenk. No. 1,418,501; June 6.
- Mattress and cover, Combined. S. Weinschenk. No. 1,433,731; Dec. 12.
- Mattress border. J. M. Eldredge. No. 1,413,577; Apr. 25.
- Mattress covering. G. P. McEntire. No. 1,430,913; Oct. 3.
- Mattress, cushion, or pad cover. W. J. S. Herbert and C. A. Fetter. No. 1,435,640; Nov. 14.
- Mattress-filling machine. P. Baker. No. 1,429,998; Sept. 26.
- Mattress, Folding spring. L. Jénot. No. 1,438,243; Dec. 12.
- Mattress frame. F. G. Gale. No. 1,419,727; June 13.
- Mattress or cushion. D. Clagett, jr. No. 1,430,946; Oct. 3.
- Mattress package. R. W. Schwab. No. 1,430,690; Oct. 3.
- Mattress-roll-forming machine. J. W. Droll. (Reissue.) No. 15,373; June 6.

Alphabetical list of inventions—Continued.

- Mattress, Spring. B. B. Englander. No. 1,433,876; Oct. 31.
 Maximum-demand meter. L. Dorfman. No. 1,409,365; Mar. 14.
 Maximum-demand meter. P. M. Lincoln. No. 1,425,665; Aug. 15.
 Mayonnaise-mixing device. C. R. Hamilton. No. 1,408,591; Mar. 7.
 Measure, Inseum. A. R. Childs. No. 1,425,175; Aug. 8.
 Measure, Mechanical. B. P. Faltin. No. 1,408,282; Feb. 28.
 Measures and other articles, Fastener for tape. A. H. Sell. No. 1,439,645; Dec. 19.
 Measurer, Thread. E. E. Foster. No. 1,439,882; Dec. 26.
 Measuring and computing machine. A. Vanderveld. No. 1,420,612; June 20.
 Measuring and computing machine, Cloth. W. E. Hosch. No. 1,431,998; Nov. 7.
 Measuring and cost-computing machine, Cloth-. G. C. Hosch and G. B. Kyle. No. 1,421,943; July 4.
 Measuring and cost-computing machine, Fabric-. D. Turner. No. 1,415,498; May 9.
 Measuring and discharging apparatus. L. I. Yeomans. No. 1,425,735; Aug. 15.
 Measuring and dispensing apparatus, Liquid. J. Fleckenstein. No. 1,405,827; Feb. 7.
 Measuring and dispensing device. J. R. Condon. No. 1,411,000; Mar. 28.
 Measuring and dispensing device. A. M. Corson. No. 1,411,990; Apr. 4.
 Measuring and display dispensing device. H. G. Cordley and G. R. Long. No. 1,433,939; Oct. 31.
 Measuring and gasifying liquids, Apparatus for. M. J. Brown. No. 1,426,831; Aug. 22.
 Measuring apparatus. P. M. F. Dugit-Gros. No. 1,433,536; Oct. 31.
 Measuring apparatus. J. Fleckenstein. No. 1,405,826; Feb. 7.
 Measuring apparatus. C. Wagner, jr., and G. P. Schmidt. No. 1,424,429; Aug. 1.
 Measuring apparatus, Angle-. S. P. Alonso. No. 1,420,175; June 20.
 Measuring apparatus, Distortion. H. Nyquist. No. 1,435,328; Nov. 14.
 Measuring apparatus, Fluid-. S. F. Mioton. No. 1,411,503; Apr. 4.
 Measuring apparatus, Liquid-. H. R. Koehler. No. 1,421,499; July 4.
 Measuring apparatus, Liquid-. J. F. Milligan. No. 1,427,115; Aug. 29.
 Measuring apparatus, Liquid-. B. A. Yarrington. No. 1,408,557; Mar. 7.
 Measuring apparatus, Microrecording film for use in. W. Scherler. No. 1,438,403; Dec. 12.
 Measuring apparatus, Surface-. H. Thun. No. 1,426,426; Aug. 22.
 Measuring apparatus, Well-. R. C. Mason. No. 1,439,742; Dec. 26.
 Measuring chart and roller therefor, Fabric-. J. T. Pedersen. No. 1,418,162; May 30.
 Measuring device. J. H. Bevel. No. 1,417,021; May 23.
 Measuring device. E. B. Cade. No. 1,405,754; Feb. 7.
 Measuring device. C. Capuano. No. 1,433,496; Oct. 24.
 Measuring device. J. C. Daynix. No. 1,413,325; Apr. 18.
 Measuring device. A. Desbains. No. 1,411,911; Apr. 4.
 Measuring device. H. H. Gunkel. No. 1,419,374; June 13.
 Measuring device. A. Haddock. No. 1,426,861; Aug. 22.
 Measuring device. H. Hart. No. 1,438,827; Dec. 12.
 Measuring device. F. W. Hutchins. No. 1,414,571; May 2.
 Measuring device. E. H. Lord. No. 1,422,112; July 11.
 Measuring device. W. B. Nutting. No. 1,413,767; Apr. 25.
 Measuring device. G. R. Radley. No. 1,410,120; Mar. 21.
 Measuring device. F. E. Small. No. 1,425,800; Aug. 15.
 Measuring device. L. P. Thatcher. No. 1,433,757; Oct. 31.
 Measuring device, Chest-. P. B. Turner. No. 1,404,812; Jan. 31.
 Measuring device especially for leather, Surface-. H. Thun. No. 1,429,803; Sept. 19.
 Measuring device, Foot-. E. J. Bliss. No. 1,426,143; Aug. 15.
 Measuring device, Foot-. G. W. Nelson. No. 1,429,963; Sept. 26.
 Measuring device, Foot and last. H. E. Clarke. No. 1,410,002; Mar. 21.
 Measuring device, Liquid-. R. J. Lyman. No. 1,413,988; Apr. 25.
 Measuring device, Scrip-. H. F. White. No. 1,407,106; Feb. 21.
 Measuring devices, Detachable clip for. J. Straka. No. 1,406,774; Feb. 14.
 Measuring frame, Corset-. L. Margolis. No. 1,439,831; Dec. 26.
 Measuring gauge. W. Humphreys. No. 1,422,576; July 11.
 Measuring glass for measuring turpentine to be distilled from gum. J. F. Creel. No. 1,412,169; Apr. 11.
 Measuring grocery bin. J. E. Wieneke. No. 1,419,338; June 13.
 Measuring hardness and resiliency, Instrument for. S. W. Widney. No. 1,408,554; Mar. 7.
 Measuring implement, Combination tailor's. E. Galassi. No. 1,431,298; Oct. 10.
 Measuring implement, Universal. E. F. Kirgan. No. 1,416,473; May 16.
 Measuring, indicating, and recording the flow of fluid, Apparatus for. P. H. Wilson. No. 1,414,388; May 2.
 Measuring internal dimensions, Gauge for. F. A. Avander, N. A. H. Nilsson, and C. G. Ekman. No. 1,439,989; Dec. 26.
 Measuring instrument. M. Bartholdy. No. 1,425,438; Aug. 8.
 Measuring instrument. E. C. Berriman. No. 1,435,274; Nov. 14.
 Measuring instrument. W. H. Bristol. No. 1,431,626; Oct. 10.
 Measuring instrument. W. L. Chamberlin. No. 1,436,648; Nov. 28.
 Measuring instrument. F. Flaig. No. 1,407,851; Feb. 28.
 Measuring instrument. J. Hutchins. No. 1,420,105; June 20.
 Measuring instrument. K. Lauer. No. 1,405,711; Feb. 7.
 Measuring instrument. K. Lauer. No. 1,405,926; Feb. 7.
 Measuring instrument. F. Lavimodiere. No. 1,434,900; Nov. 7.
 Measuring instrument. P. MacGahan. No. 1,408,110; Feb. 28.
 Measuring instrument. C. J. Middleton. No. 1,403,972; Jan. 17.
 Measuring instrument. V. Morneau. No. 1,433,640; Oct. 31.
 Measuring instrument. F. W. Roller. No. 1,435,259; Nov. 14.
 Measuring instrument. H. P. Seelye. No. 1,437,203; Nov. 28.
 Measuring instrument, Curve-. C. W. Howland. No. 1,430,738; Oct. 3.
 Measuring instrument, Electrical. E. C. Ballman. No. 1,428,743; Sept. 12.
 Measuring instrument, Electrical. W. M. Bradshaw. No. 1,408,071; Feb. 28.
 Measuring instrument, Electrical. H. L. Decker. No. 1,418,367; June 6.
 Measuring instrument, Electrical. P. M. Lincoln. No. 1,417,671; May 30.
 Measuring instrument, Electrical. J. H. Miller. No. 1,408,110; Feb. 28.
 Measuring instrument, Electrical. J. H. Miller. No. 1,412,791; Apr. 11.
 Measuring instrument, Electrical. W. G. Mylius. No. 1,433,739; Oct. 31.
 Measuring instrument, Electrical. B. H. Smith. No. 1,406,235; Feb. 14.
 Measuring instrument, Electrical. B. H. Smith. No. 1,417,695; May 30.
 Measuring instrument, Electrical. F. N. Waterman. No. 1,426,132; Aug. 15.
 Measuring instrument, Precision. W. E. Swartout. No. 1,427,132; Aug. 29.
 Measuring instrument, Tailor's. E. C. Berriman. No. 1,435,275; Nov. 14.
 Measuring instrument, Theodolite and similar angle-. I. V. Baptista. No. 1,429,555; Sept. 19.
 Measuring instruments, Assembling electrical. J. L. Axen. No. 1,419,099; June 6.
 Measuring instruments, Clamping device for. R. P. Brown. No. 1,436,430; Nov. 21.
 Measuring machine. W. E. Hosch. No. 1,403,164; Jan. 10.
 Measuring machine, Area-. H. Thun. No. 1,412,095; Apr. 11.
 Measuring machine for gauges. R. Hill. No. 1,423,214; July 18.
 Measuring machine for leather, Surface-. H. Thun. No. 1,402,118; Jan. 3.
 Measuring machine, Lace-. F. Reichmann. No. 1,415,483; May 9.
 Measuring machine, Liquid-. G. B. Willcox. No. 1,402,820; Jan. 10.
 Measuring machine, Surface-. A. Cloutier. No. 1,413,517; Apr. 18.
 Measuring machine, Totalizing. J. L. Wheeler. No. 1,406,126; Feb. 7.
 Measuring machines, Fabric guide for. E. T. Nugent. No. 1,409,567; Mar. 14.
 Measuring machines, Feeding mechanism for fabric-. A. Houston. No. 1,437,658; Dec. 5.
 Measuring machines, Lock for notching shears of. D. Turner. No. 1,421,863; July 4.
 Measuring machines, Microscopic. M. Levy. No. 1,414,142; Apr. 25.
 Measuring machines, Register for fabric-. D. Turner. No. 1,429,983; Sept. 26.
 Measuring or computing machine, Cloth. W. E. Hosch and D. Turner. No. 1,434,999; Nov. 7.
 Measuring set. C. E. Johansson. No. 1,435,525; Nov. 14.
 Measuring speed, Apparatus for. A. Seguin. No. 1,424,384; Aug. 1.
 Measuring spindles of micrometers, measuring machines, and the like, Adjustment device for. C. E. Johansson. No. 1,431,583; Oct. 10.
 Measuring textile fabrics, Machine for. J. F. Stocke. No. 1,437,207; Nov. 28.
 Measuring the flow of fluids, Method of and apparatus for. F. W. Meyer. No. 1,411,796; Apr. 4.
 Measuring visibility, Means and method for. L. A. Jones. No. 1,437,809; Dec. 5.
 Meat and other alimentary substances, Apparatus for the preservation of. L. F. Bullöt. No. 1,414,859; May 2.
 Meat, Apparatus for smoking and curing. T. G. Crane. No. 1,414,504; May 2.

- Meat-carrying hook and support. C. McElhone. No. 1,408,481; Jan. 10.
- Meat, Chart for illustrating the subdivision of meat carcasses into cuts of. A. C. Delaplaine. No. 1,403,896; Jan. 17.
- Meat chopper. C. A. Johnson. No. 1,439,312; Dec. 19.
- Meat cutter. F. G. Walker. No. 1,427,661; Aug. 29.
- Meat defiberizer. J. Snyder. No. 1,436,363; Nov. 21.
- Meat extract in a dry state, Preparing. A. Chalas. No. 1,414,177; Apr. 25.
- Meat-handling apparatus. H. W. Brown. No. 1,416,443; May 16.
- Meat-hanging device. J. H. Giroux. No. 1,404,436; Jan. 24.
- Meat holder. R. Syiontek. No. 1,418,213; May 30.
- Meat or the like, Means for injecting liquid or gaseous matter under pressure into. G. Scheib. No. 1,425,143; Aug. 8.
- Meat, Preservation of. G. Schnabel. No. 1,406,513; Feb. 14.
- Meat preservative and making same. B. Heller. No. 1,402,354; Jan. 3.
- Meat press and filler. F. Kruse. No. 1,417,610; May 30.
- Meat product and making the same. C. H. Vogt. No. 1,408,914; Mar. 7.
- Meat safe and the like. T. G. Blood. No. 1,440,271; Dec. 26.
- Meat shaper and press. A. M. Demuth. No. 1,432,161; Oct. 17.
- Meat slicer. W. F. H. Braun. No. 1,418,063; May 30.
- Meat-slicing machine. E. G. Freed. No. 1,419,552; June 13.
- Meat-slicing machine, Feed device for. J. A. Nordin. No. 1,438,459; Dec. 12.
- Meat-slicing machines, Sharpener for. W. F. H. Braun. No. 1,424,875; Aug. 8.
- Meat tenderer. C. L. Leonard. No. 1,402,778; Jan. 10.
- Meats, Curing flesh. J. Epping. No. 1,435,057; Nov. 7.
- Meats, Prepared. E. O. Brickman. No. 1,427,438; Aug. 29.
- Mechanic bench, Collapsible. H. H. Harris. No. 1,429,587; Sept. 19.
- Mechanical connector. W. H. Michaelsen. No. 1,422,580; July 18.
- Mechanical interrupter, Electrical condenser for. W. E. Schwarzmann. No. 1,439,764; Dec. 26.
- Mechanical motion. S. W. Wardwell. No. 1,421,049; June 27.
- Mechanical movement. M. L. Barbeau and F. S. Weber. No. 1,420,360; June 20.
- Mechanical movement. L. H. Blood. No. 1,403,480; Jan. 17.
- Mechanical movement. I. C. Buckminster. No. 1,408,439; Mar. 7.
- Mechanical movement. A. E. Cranston. No. 1,417,503; May 30.
- Mechanical movement. V. R. Despard. No. 1,425,180; Aug. 8.
- Mechanical movement. H. Egil. No. 1,414,461; May 2.
- Mechanical movement. J. G. Eklund. No. 1,422,682; July 11.
- Mechanical movement. G. A. Fullips. No. 1,419,368; June 13.
- Mechanical movement. W. F. Fraser. No. 1,424,397; Aug. 1.
- Mechanical movement. F. M. Furber. No. 1,404,753; Jan. 31.
- Mechanical movement. C. H. Gill. No. 1,413,982; Apr. 25.
- Mechanical movement. G. E. and C. A. Krantz. No. 1,418,036; Apr. 18.
- Mechanical movement. H. J. Kuhlman. No. 1,412,183; Apr. 11.
- Mechanical movement. A. L. De Leeuw. No. 1,430,496; Sept. 26.
- Mechanical movement. R. Loeb. No. 1,411,855; Apr. 4.
- Mechanical movement. A. T. Moore. No. 1,405,058; Jan. 31.
- Mechanical movement. J. D. Moore. No. 1,413,417; Apr. 18.
- Mechanical movement. M. W. Muehlhauser. No. 1,404,635; Jan. 24.
- Mechanical movement. F. Müller. No. 1,429,612; Sept. 19.
- Mechanical movement. J. F. O'Connor. No. 1,407,883; Feb. 28.
- Mechanical movement. G. W. Prouty. No. 1,404,406; Jan. 24.
- Mechanical movement. H. A. Recep. No. 1,403,632; Jan. 17.
- Mechanical movement. H. A. Recen. No. 1,410,720; Mar. 28.
- Mechanical movement. G. C. Snyder. No. 1,429,654; Sept. 19.
- Mechanical movement. J. C. Stone. No. 1,407,233; Feb. 21.
- Mechanical movement. J. C. Stone. No. 1,423,973; July 25.
- Mechanical operating connection. W. G. Hartwig. No. 1,412,283; Apr. 11.
- Medal ribbon carrier. C. F. Gaunt. No. 1,413,468; Apr. 18.
- Medical appliance. L. A. Hall. No. 1,417,318; May 23.
- Medical appliance. O. Henker. No. 1,429,426; Sept. 19.
- Medical appliance. C. B. Hughes. No. 1,406,738; Feb. 14.
- Medicinal apparatus. A. F. W. Macmanus. No. 1,424,111; July 25.
- Medicinal compound. J. A. Klein. No. 1,420,634; June 27.
- Medicinal compound and producing same. J. F. Schamberg and G. W. Raiziss. No. 1,417,771; May 30.
- Medicinal package. P. S. Pittenger. No. 1,438,057; Dec. 5.
- Medicinal preparation. M. Bye and L. H. Carlson. No. 1,439,605; Dec. 19.
- Medicinal preparation. E. H. Gane. No. 1,405,999; Feb. 7.
- Medicinal substances and making same, Preparation of. J. Wershow. No. 1,404,673; Jan. 24.
- Medicine against consumption. V. G. Ruffo. No. 1,435,335; Nov. 14.
- Medicine dropper. E. C. Luedtke. No. 1,412,948; Apr. 18.
- Medicine, Providing and administering. A. T. Porter. No. 1,404,643; Jan. 24.
- Meerschlaum, Process and apparatus for coloring. R. S. Goetz and E. S. Rudick. No. 1,412,858; Apr. 18.
- Melting apparatus. F. F. Schroder. No. 1,440,244; Dec. 26.
- Melting furnace. A. J. Grindle. No. 1,420,312; June 20.
- Melting pot. J. B. McClain. No. 1,423,501; July 18.
- Melting pots, Feeder for. E. N. Lightfoot. No. 1,437,528; Dec. 5.
- Melting tank. G. C. Heilman. No. 1,422,858; July 18.
- Membrane. H. S. A. Rydberg. No. 1,411,187; Mar. 28.
- Memoranda device. J. C. Crawford. No. 1,412,043; Apr. 11.
- Memorandum apparatus. W. W. Bonnell. No. 1,409,655; Mar. 14.
- Memorandum device. E. J. Brasseur. No. 1,431,283; Oct. 10.
- Memorandum device. J. H. Rand. No. 1,408,469; Mar. 7.
- Memorandum pad. F. Zipoy. No. 1,419,190; June 13.
- Memorandum pad, stand, and pad sheets. C. W. Smith. No. 1,422,489; July 11.
- Mercurizing machines, Controlling means for. F. H. Olden. No. 1,429,525; Sept. 19.
- Merchandise-display table. J. A. Grover. No. 1,412,207; Apr. 11.
- Merchandise, Distributing and sorting. A. S. Alschuler. No. 1,440,204; Dec. 26.
- Merchandise folder. W. P. Ten Eyck. No. 1,412,635; Apr. 11.
- Mercury compounds, Extending the catalytic activity of. N. Grünstein and P. Berge. No. 1,431,301; Oct. 10.
- Mercury, Container for. W. H. Bowman. No. 1,427,351; Aug. 29.
- Mercury, Extracting. M. K. Codding. No. 1,402,742; Jan. 10.
- Mercury motor. F. C. Baier. No. 1,414,322; Apr. 25.
- Mercury motor meter. O. White. No. 1,413,817; Apr. 25.
- Merry-go-round. E. M. Maxwell. No. 1,435,648; Nov. 14.
- Merry-go-round and teeter board. Combined. A. F. Haurmerson. No. 1,421,468; July 4.
- Merry-go-round, Infant's. H. A. Fredericks. No. 1,415,831; May 9.
- Mesh or net work, Machine for the manufacture of ringlet. R. Kölsch. No. 1,417,257; May 28.
- Mesograph. C. M. Swingle. No. 1,406,775; Feb. 14.
- Message-register system. F. Avery. No. 1,409,913; Mar. 21.
- Message-registering system. L. H. Darrow. No. 1,412,458; Apr. 11.
- Meta-hydroxy-benzaldehyde. J. B. Slimm. No. 1,419,695; June 13.
- Metal alginates and product derived therefrom, Producing gelling. B. F. Erdahl. No. 1,415,849; May 9.
- Metal and its manufacture. A. Pacz. No. 1,410,499; Mar. 21.
- Metal and other sheets, Press for operating upon. C. J. Rhodes and T. H. Webb. No. 1,416,877; May 23.
- Metal anode for electrode deposition and producing same. G. B. Hogaboom. No. 1,433,618; Oct. 31.
- Metal, Apparatus for manufacture of expanded. F. C. Arey. No. 1,412,156; Apr. 11.
- Metal, Apparatus for rolling. J. R. Coe. No. 1,429,061; Sept. 12.
- Metal article, Protected. J. H. Young. Nos. 1,418,347-9; June 6.
- Metal article, Protected. J. H. Young. No. 1,421,338; June 27.
- Metal article, Protected. J. H. Young. No. 1,432,512; Oct. 17.
- Metal articles, Apparatus for polishing. R. F. Dalton. No. 1,430,886; Oct. 3.
- Metal articles, Apparatus for polishing. O. W. Sadler, Jr. No. 1,418,677; June 6.
- Metal articles, Carbonizing. T. G. Selleck. No. 1,402,449; Jan. 3.
- Metal articles, Cutting, shaping, and polishing. D. Lacy. No. 1,415,879; May 16.
- Metal articles, Hardening. G. C. Nixon. No. 1,415,260; May 9.
- Metal articles, Making composite. J. F. R. Rousseau. No. 1,416,879; May 23.
- Metal articles, Treating. J. E. Pool. No. 1,410,117; Mar. 21.

Alphabetical list of inventions—Continued.

- Metal bar of curved cross section. K. R. Schuster. No. 1,428,561; Sept. 12.
- Metal bars or rods, Power machine for bending. M. H. McKenna. No. 1,414,744; May 2.
- Metal-bending machine. D. T. Frederickson and E. L. Faulkner. No. 1,435,112; Nov. 7.
- Metal-bending machine. W. S. Mason. No. 1,418,955; June 6.
- Metal-bending tool. E. A. Mull. No. 1,420,731; June 27.
- Metal blanks, Method and apparatus for shaping hot. W. H. Morgan. No. 1,414,660; May 2.
- Metal, Blowpipe apparatus for cutting. A. Godfrey. No. 1,431,650; Oct. 10.
- Metal bodies, Art and mechanism for drawing hollow cylindrical. C. B. Higgins. No. 1,422,974; July 18.
- Metal bodies, Producing. G. Ising and H. Borofski. No. 1,431,233; Oct. 10.
- Metal body and making same, Compound. A. Ortiz. No. 1,409,017; Mar. 7.
- Metal box. A. R. Mann. No. 1,417,932; May 30.
- Metal box. J. C. Wahl and P. G. Jacobson. No. 1,428,195; Sept. 5.
- Metal boxes with vests, Machine for filling rectangular. A. F. Ney. No. 1,418,451; June 6.
- Metal, Cleaner for and method of cleaning. J. H. Gravell. No. 1,428,084; Sept. 5.
- Metal coating and apparatus therefor. E. L. Watrous. No. 1,418,412; June 6.
- Metal, Composition white. C. E. Hansen. No. 1,431,113; Oct. 3.
- Metal, Conveying and pouring device for molten. C. A. Philippi. No. 1,437,010; Nov. 28.
- Metal compound powder and production of same. W. P. Heskett. No. 1,421,471; July 4.
- Metal containers, Machine for refinishing. T. A. Jackson. No. 1,419,929; June 20.
- Metal-cutting machine. F. Müller. No. 1,429,611; Sept. 19.
- Metal-cutting machine. F. Müller. No. 1,429,615; Sept. 19.
- Metal-cutting machine. F. Müller. No. 1,429,617; Sept. 19.
- Metal-cutting-machine tool. G. C. Neth. No. 1,418,727; June 6.
- Metal-cutting mechanism. A. O. Bouvier. No. 1,412,652; Apr. 11.
- Metal-cutting tool. J. Wagner, jr. No. 1,430,604; Oct. 3.
- Metal, Device for cutting or resurfacing. E. Jarvis. No. 1,430,739; Oct. 3.
- Metal-drawing apparatus. L. H. Brinkman. No. 1,414,500; May 2.
- Metal-expanding machine. H. E. White. No. 1,411,543; Apr. 4.
- Metal-expanding machine. H. E. White. No. 1,417,706; May 30.
- Metal fabric, Expanded. N. E. Clark. No. 1,437,746; Dec. 5.
- Metal-feeding apparatus. H. C. Zenke. No. 1,417,440; May 23.
- Metal-flanging machine. H. R. Bremer. No. 1,426,253; Aug. 15.
- Metal, Forming a rust-resistant coating on. A. Mai. No. 1,440,092; Dec. 26.
- Metal-forming machine. A. J. Lewis. No. 1,417,397; May 23.
- Metal from rusting, Composition for and method of preventing. J. H. Gravell. No. 1,428,085; Sept. 5.
- Metal homogenous, Apparatus rendering. J. D. McNeill. No. 1,419,280; June 13.
- Metal hook, Pressed. W. E. Wine. No. 1,431,504; Oct. 10.
- Metal-hubbled articles, Forming. T. D. Dallmeyer. G. G. Brown, and J. R. Schultz. No. 1,410,093; Mar. 21.
- Metal-lath-attaching clip. H. M. Naugle. (Reissue.) No. 15,301; Mar. 7.
- Metal-lining machine, Centrifugal. C. A. Warn and O. B. Norgren. No. 1,433,763; Oct. 31.
- Metal machine, Expanded. W. C. Weightman. No. 1,436,554; Nov. 21.
- Metal machine for bending. J. O. Holmberg. No. 1,406,384; Feb. 14.
- Metal, Machine for drying and tarring road. J. Jack. No. 1,408,512; Mar. 7.
- Metal, Machine for shaping and tempering. H. L. Allen. No. 1,434,184; Oct. 31.
- Metal-melting furnace. G. C. Rahn. No. 1,403,265; Jan. 10.
- Metal, Method and means for treating molten. F. L. Driver, Jr. No. 1,437,405; Dec. 5.
- Metal, Method of and apparatus for forming. V. B. Ash and A. E. Allison. No. 1,439,352; Dec. 19.
- Metal mold. C. J. Amick. No. 1,420,903; June 27.
- Metal pipe, Lapping. S. J. Lindberg. No. 1,421,507; July 4.
- Metal plate, Corrugated. B. B. Milner. No. 1,425,207; Aug. 8.
- Metal plates and blanks, Machine for pickling. R. S. Smith and E. W. Burgess. No. 1,428,716; Sept. 12.
- Metal plates, Making shears for. N. Krump. No. 1,435,710; Nov. 14.
- Metal plates, Manufacturing corrugated. B. B. Milner. No. 1,425,208; Aug. 8.
- Metal plates or other like articles, Machine for indenting characters on. C. F. Gaunt. No. 1,421,074; June 27.
- Metal pot, Heating. G. J. Hagan. No. 1,436,247; Nov. 21.
- Metal, Pouring ladle for molten. K. S. Howard. No. 1,439,522; Dec. 19.
- Metal, Process of and apparatus for pouring. D. J. Ryan and L. J. Feltes. No. 1,426,110; Aug. 15.
- Ryan and L. J. Feltes. No. 1,426,110; Aug. 15.
- Metal, Reinforcing thin. E. M. Atkinson. No. 1,407,366; Feb. 21.
- Metal-routing machine. G. L. Kelley. No. 1,420,319; June 20.
- Metal shaper. A. W. Parkes. No. 1,430,180; Sept. 26.
- Metal shapes, Method and apparatus for perforating. E. S. Seavey. No. 1,414,589; May 2.
- Metal sheets or foils, Production of thin. T. A. Edison. No. 1,417,464; May 23.
- Metal sheets or foils, Production of thin. T. A. Edison. No. 1,425,184; Aug. 8.
- Metal sheets, Press for operating on. H. A. and R. H. Griffiths. No. 1,415,838; May 9.
- Metal strips and the like, Tool for the connection of. E. Hoffmann. No. 1,430,807; Oct. 3.
- Metal strips, Machine for treating. A. Sundh. No. 1,412,978; Apr. 18.
- Metal strips, Machine for treating. A. Sundh. No. 1,436,464; Nov. 21.
- Metal structure, Expanded. W. E. Ackermann. No. 1,419,709; June 13.
- Metal-supplying device. H. A. W. Wood. No. 1,418,418; June 6.
- Metal surfaces, Treating. H. G. Grant. No. 1,431,300; Oct. 10.
- Metal surfacing or abrading machine. S. R. Leavenworth. No. 1,413,171; Apr. 18.
- Metal telephone-directory hanger. S. S. Dahl. No. 1,405,298; Jan. 31.
- Metal-treating apparatus. J. F. Gillan. No. 1,425,851; Aug. 15.
- Metal tubing, Shaping. N. Christensen. No. 1,432,279; Oct. 17.
- Metal-twisting mechanism. W. J. Young. No. 1,415,502; May 9.
- Metal walls, tubes, floors, and the like, Apparatus for cleaning. H. Baschy. No. 1,404,082; Jan. 17.
- Metal wheel. G. G. Barry. No. 1,422,168; July 11.
- Metal wheel. R. J. Burrows. No. 1,405,184; Jan. 31.
- Metal wheel. R. J. Burrows. No. 1,416,330; May 16.
- Metal wheel. M. Lachman. No. 1,403,121; Jan. 10.
- Metal wheel. M. Lachman. No. 1,420,432; June 20.
- Metal wheel. M. Lachman. No. 1,426,881; Aug. 22.
- Metal wheel. J. Ledwinka. No. 1,427,747; Aug. 29.
- Metal wheel. J. H. Wagonborst. No. 1,423,373; July 18.
- Metal wheel. A. M. Loffand. No. 1,412,123; Apr. 11.
- Metal wheel. C. Schenck. No. 1,404,411; Jan. 24.
- Metal wheel and making same. E. Ibach. No. 1,404,395; Jan. 24.
- Metal wheel and making same. M. Lachman. No. 1,424,490; Aug. 1.
- Metal wheel and tire rim. G. K. Henderson. No. 1,411,783; Apr. 4.
- Metal wheel, Cast. W. H. Morgan. Nos. 1,414,661-3; May 2.
- Metal wheel, Floating-hub. L. F. Janke. No. 1,428,034; Sept. 5.
- Metal wheel, Pressed. L. Fine. No. 1,411,427; Apr. 4.
- Metal wheel, Tensioned. H. J. Foster. No. 1,414,013; Apr. 25.
- Metal wool and shavings, Apparatus for making. R. I. Schonitzer. No. 1,419,472; June 13.
- Metal wool and shavings, Making. R. I. Schonitzer. No. 1,419,473; June 13.
- Metal work, Composite. L. S. Lachman. No. 1,435,010; Nov. 7.
- Metal work, Rotary cutting apparatus for. A. T. Perinan. No. 1,418,459; June 6.
- Metal-working machine. R. K. Davis and W. J. Schaffer. No. 1,435,453; Nov. 14.
- Metal-working machine. P. R. Hahnemann. No. 1,406,004; Feb. 7.
- Metal-working machine. B. M. W. Hanson. No. 1,409,102; Mar. 7.
- Metal-working machine. B. M. W. Hanson. No. 1,412,864; Apr. 18.
- Metal-working machine. B. M. W. Hanson. No. 1,415,341; May 9.
- Metal-working machine. B. M. W. Hanson. No. 1,432,853; Oct. 24.
- Metal-working machine. J. E. Ogden and J. Kennedy. No. 1,424,671; Aug. 1.
- Metal-working machine. J. E. Ogden and J. Kennedy. No. 1,431,175; Oct. 10.
- Metal-working machines, Feeding and clamping means for. F. M. Davis. No. 1,415,530; May 9.
- Metal-working tool. W. P. Carroll. No. 1,418,125; May 30.
- Metal working tool. H. R. Kennedy. (Reissue.) No. 15,268; Jan. 17.
- Metals and making alloys, Reducing. W. B. Hamilton and T. A. Evans. No. 1,432,289; Oct. 17.
- Metals, Apparatus for die-casting. H. Hill. No. 1,403,955; Jan. 17.
- Metals, Dissolving or recovering. H. Bardt. No. 1,423,069; July 18.
- Metals, Electrolytic separation of. C. Langer. No. 1,414,423; May 2.

- Metals, Extraction of. W. J. Browning. No. 1,407,324; Feb. 21.
- Metals from ores, Extracting. S. McKirahan. No. 1,425,667; Aug. 15.
- Metals from silicates, Recovery of. F. M. McClenahan. Nos. 1,426,890-1; Aug. 22.
- Metals from solutions, Precipitating. H. Bardt. No. 1,423,070; July 18.
- Metals from their compounds, Extraction of. P. Freedman and E. Gretham. No. 1,433,541; Oct. 31.
- Metals from their ores, Extracting. A. J. Moxham. No. 1,420,130; June 20.
- Metals, Furnace for locally heating. R. Harvey and A. Holmes. No. 1,407,412; Feb. 21.
- Metals, Method and means for refining. H. M. Shimer. No. 1,403,349; Jan. 10.
- Metals, Method of and apparatus for amalgamating. E. W. Myers. No. 1,436,518; Nov. 21.
- Metals, etc., Method of and apparatus for reducing. A. Bridge. No. 1,415,516; May 9.
- Metals, Method of and apparatus for treating. A. Sundh. No. 1,412,979; Apr. 18.
- Metals, Pickling. O. Vogel. No. 1,433,579; Oct. 31.
- Metals, Pot for use in annealing and carbonizing. J. G. McCarren. No. 1,406,744; Feb. 14.
- Metals, Preparation of rare. J. W. Marden. No. 1,437,984; Dec. 5.
- Metals preparatory to welding, Means for cleaning. S. C. Cary and J. M. Betton. No. 1,419,717; June 13.
- Metals, Process of and apparatus for pickling. No. 1,434,011; Oct. 31.
- Metals, Recovering. A. L. D. d'Adrian. Nos. 1,434,485-6; Nov. 7.
- Metals, Treatment of. F. Palmer. No. 1,433,408; Oct. 24.
- Metals, Welding. J. Wattmann. No. 1,440,256; Dec. 26.
- Metals with gaseous fuel, Cutting. J. Harris. No. 1,425,856; Aug. 15.
- Metals, Working. O. C. Gilbert. Nos. 1,427,100-1; Aug. 29.
- Metaldehyde, Burner for. C. Tommasi. No. 1,431,549; Oct. 10.
- Metaldehyde, Manufacture of. H. Dannel and E. Lüscher. No. 1,432,387; Oct. 17.
- Metallic container. S. Berlotti. No. 1,426,345; Aug. 22.
- Metallic containers, Removable false head for. C. T. Draper. No. 1,422,043; July 4.
- Metallic dust, Process and apparatus for the production of. R. B. Finn. No. 1,436,983; Nov. 28.
- Metallic fencepost. C. Holsinger. No. 1,407,540; Feb. 21.
- Metallic frame. J. F. Lamb. No. 1,413,918; Apr. 25.
- Metallic joint and production. W. P. Bovard. No. 1,410,647; Mar. 28.
- Metallic leaf, Apparatus for cutting. L. M. Harwood. No. 1,437,803; Dec. 5.
- Metallic leaf, Process and apparatus for the manufacture and handling of imitation. S. Davis. No. 1,414,115; Apr. 25.
- Metallic lining, Reinforced. J. A. MacKenzie. No. 1,419,395; June 13.
- Metallic parts, Method and device for the prevention of selective corrosion of. F. von Wurstemberger. No. 1,435,268; Nov. 14.
- Metallic separation, Flotation process for. C. N. Forrest. No. 1,438,590; Dec. 12.
- Metallic shapes, Manufacturing. C. A. Witler. No. 1,408,330; Feb. 28.
- Metallic solutions, Purification of. S. Field. No. 1,429,131; Sept. 12.
- Metallic structure, Flexible. H. Maxenchs. No. 1,422,776; July 11.
- Metallic studding. J. J. Burns. No. 1,413,828; Apr. 25.
- Metallic surfaces, Coloration of. T. Rondelli and Q. Sestini. No. 1,417,413; May 23.
- Metallic table. S. Feigler. No. 1,425,582; Aug. 15.
- Metallic values from fume precipitate, Recovery of. A. Scott. Nos. 1,435,505-6; Nov. 14.
- Metallurgical apparatus. A. Donaldson. No. 1,432,842; Oct. 24.
- Metallurgical apparatus. J. Lund. No. 1,415,183; May 9.
- Metallurgical furnace. C. C. Roller. No. 1,429,777; Sept. 19.
- Metallurgical process. W. E. F. Bradley. No. 1,422,734; July 11.
- Meter: See—
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| Altitude meter. | Liquid-fuel meter. |
| Audibility meter. | Map meter. |
| Compression meter. | Maximum-demand meter. |
| Computing exposure meter. | Mercury-motor meter. |
| Current meter. | Motor meter. |
| Demand meter. | Photographic exposure meter. |
| Electric meter. | Time meter. |
| Fermentation meter. | Tire-pressure meter. |
| Flow meter. | Totalizing meter. |
| Fluid meter. | V-notch liquid meter. |
| Frequency meter. | Volt-ampere meter. |
| Gas meter. | Water meter. |
| Gasoline meter. | |
| Liquid meter. | |
- Meter. H. Blum. No. 1,423,597; July 25.
- Meter. E. B. Cade. No. 1,421,905; July 4.
- Meter. D. H. Rathbone. No. 1,406,682; Feb. 14.
- Meter box cover. J. W. Calhoun. No. 1,421,669; July 4.
- Meter-box, manhole, and like cover. J. W. Calhoun. No. 1,408,982; Mar. 7.
- Meter indicator. C. S. Cole. Nos. 1,436,381-2; Nov. 21.
- Meter lock, Motor. L. L. Winters. No. 1,423,822; July 25.
- Meter pit box. C. A. Cummings. No. 1,432,236; Oct. 17.
- Meter-test apparatus. F. Zenker and J. Schepperly. No. 1,409,637; Mar. 14.
- Meter-testing apparatus. J. W. Calhoun. No. 1,434,198; Oct. 31.
- Meter-testing device. J. L. Grayson. No. 1,424,899; Aug. 8.
- Metering granular material, Apparatus for. E. G. Bailey. No. 1,425,936; Aug. 15.
- Meters, Movable element for. D. J. Angus. No. 1,425,229; Aug. 8.
- Methyl sulphites of secondary aromatic aliphatic amines and making same. M. Bockmühl and K. Windisch. No. 1,426,348; Aug. 22.
- Methylene bodies, Producing active. C. B. Carter and A. E. Coxe. No. 1,423,753; July 25.
- Micrometer. J. Brower. No. 1,432,664; Oct. 17.
- Micrometer. H. S. Hubbell. No. 1,440,080; Dec. 26.
- Micrometer adapter. H. Johnson. No. 1,428,781; Sept. 12.
- Micrometer adjuster. F. R. Sommer. No. 1,435,025; Nov. 7.
- Micrometer attachment. J. A. Oboie. No. 1,416,573; May 16.
- Micrometer caliper. J. P. Cluley. No. 1,414,550; May 2.
- Micrometer, Direct or sight reading. J. W. Parker. No. 1,437,852; Nov. 28.
- Micrometer gauge. S. A. Foster. No. 1,416,810; May 23.
- Micrometer gauge. J. A. Schleicher. No. 1,424,383; Aug. 1.
- Micrometer gauge or caliper. A. Hetherington. No. 1,425,201; Aug. 8.
- Micrometer height gauge. V. L. Cross. No. 1,414,183; Apr. 25.
- Micrometer lock. A. Selas. No. 1,402,665; Jan. 3.
- Micrometer, Tool-adjusting. G. T. Furness and L. R. Senn. No. 1,421,073; June 27.
- Microphone. D. G. McCaa. No. 1,435,719; Nov. 14.
- Microphone mounting. E. C. Wood. No. 1,419,596; June 13.
- Microscope. A. Bauer. No. 1,429,557; Sept. 19.
- Microscope with variable enlargement and with fine adjustment, Extensible pocket. C. Hensoldt. No. 1,418,645; June 6.
- Microscopes, Illuminating device for. W. A. Beck. No. 1,427,714; Aug. 29.
- Microscopes, Objective changer or the like for. R. A. Sloan. No. 1,428,990; Sept. 12.
- Middy blouse. A. G. Winchester. No. 1,421,053; June 27.
- Milk and other food products in a sterile atmosphere, Process of and means for putting up powdered. W. P. Heath and R. M. Washburn. No. 1,406,380; Feb. 14.
- Milk and other food products, Manufacturing powdered. W. P. Heath and R. M. Washburn. No. 1,406,381; Feb. 14.
- Milk, Automatic alarm mechanism for pasteurizing. P. Malcamp. No. 1,421,517; July 4.
- Milk box. J. Ewashko. No. 1,434,810; Nov. 7.
- Milk-bottle-cap remover. R. N. Cox. No. 1,419,823; June 13.
- Milk-bottle carrier. E. M. Knudson. No. 1,421,257; June 27.
- Milk-bottle holder. R. H. Call. No. 1,419,488; June 13.
- Milk box. W. C. Young. No. 1,416,542; May 16.
- Milk can. F. G. Murray. No. 1,437,888; Oct. 24.
- Milk can. W. S. Stockton. No. 1,409,610; Mar. 14.
- Milk-can attachment. L. D. Kroff. No. 1,436,988; Nov. 28.
- Milk-can attachment. C. I. Sweet. No. 1,436,211; Nov. 21.
- Milk-can cover. E. Aussen. No. 1,409,902; Mar. 21.
- Milk-can seal. W. K. Edgar. No. 1,415,431; May 9.
- Milk-can tops, Lock for. G. S. Brewster. No. 1,420,811; June 27.
- Milk cans, Machine for ironing. W. J. Wachowitz. No. 1,420,506; June 20.
- Milk centrifuges, Lubricating device for. H. Holte. No. 1,416,640; May 16.
- Milk compound and making the same, Powdered. C. S. Stevens. No. 1,432,635; Oct. 17.
- Milk confection, Malted. L. A. Thompson. No. 1,434,667; Nov. 7.
- Milk cooler. L. G. Merkle. No. 1,418,957; June 6.
- Milk-cooling apparatus. H. M. Sprecher. No. 1,426,515; Aug. 22.
- Milk, Device for enriching. A. S. Nickerson. No. 1,412,415; Apr. 11.
- Milk, Device for straining and canning of. J. Postma. No. 1,403,108; Jan. 10.
- Milk dispenser and mixer, Malted. J. A. Franklin. No. 1,437,644; Dec. 5.
- Milk fat, Manufacture of. J. C. Baker. No. 1,413,092; Apr. 18.
- Milk food product. C. S. Stevens and C. A. Baumann. No. 1,432,634; Oct. 17.
- Milk food product and making same. C. S. Stevens and C. A. Baumann. No. 1,432,632; Oct. 17.
- Milk-handling machinery. W. J. Davis. No. 1,407,014; Feb. 21.
- Milk, Heating and cooling device for treating. S. P. Hay. No. 1,435,295; Nov. 14.

Alphabetical list of inventions—Continued.

- Milk machines, Agitator for malted-. P. E. Horton. No. 1,437,246; Nov. 28.
- Milk or evaporated-milk compound, Manufacturing of evaporated. G. Grindrod. No. 1,432,686; Oct. 17.
- Milk, Pasteurization of. K. N. Snoen. No. 1,439,027; Dec. 19.
- Milk, Preserving. C. L. Arnoldi. No. 1,403,223; Jan. 10.
- Milk, Process and apparatus for acting upon. F. A. Plummer. No. 1,430,403; Sept. 26.
- Milk product. C. S. Stevens and C. A. Baumann. No. 1,432,633; Oct. 17.
- Milk product and making it. P. G. Kinzer. No. 1,432,699; Oct. 17.
- Milk product, Making a. J. M. Colony. No. 1,434,094; Oct. 31.
- Milk product, Producing a condensed-. H. S. Mellott. No. 1,423,810; July 25.
- Milk products, Preparation of artificial-. H. T. Habbema. No. 1,403,405; Jan. 10.
- Milk skimmer. C. E. Chambers. No. 1,421,909; July 4.
- Milk-sterilizing apparatus. L. B. Comer. No. 1,432,671; Oct. 17.
- Milk tanks, Friction drive for. G. H. White. No. 1,421,641; July 4.
- Milk vinegar, Obtaining. P. F. Huberty. No. 1,410,809; Mar. 28.
- Milk, worts, and the like, Heat-exchange device for treating. M. Grubenmann. No. 1,423,794; July 25.
- Milker, Cow. E. A. Cook. No. 1,417,801; May 30.
- Milker, Mechanical cow. A. A. Rosenfield. No. 1,412,092; Apr. 11.
- Milker, Vacuum-operated cow. J. N. Williams and H. C. Middleton. No. 1,428,670; Sept. 12.
- Milking apparatus. L. Dinesen. No. 1,408,695; Mar. 7.
- Milking apparatus. L. Dinesen. No. 1,410,286; Mar. 21.
- Milking apparatus. L. Dinesen. No. 1,417,505; May 30.
- Milking apparatus. W. Morgan and C. J. Muckle. No. 1,430,022; Sept. 26.
- Milking apparatus, Pulsator for. J. A. Schmidt. No. 1,408,036; Feb. 28.
- Milking apparatus, Valve mechanism for. L. Dinesen. No. 1,408,694; Mar. 7.
- Milking machine. A. E. Anderson. No. 1,432,654; Oct. 17.
- Milking machine. C. B. Harbaugh. No. 1,408,505; Mar. 7.
- Milking machine. N. D. Rutherford. No. 1,416,880; May 23.
- Milking machine. W. A. Shippert. No. 1,405,166; Jan. 31.
- Milking machine. W. F. Turk and S. Nielsen. No. 1,417,116; May 23.
- Milking machine. S. A. Warner. No. 1,413,546; Apr. 18.
- Milking machine. J. Wilmotte. No. 1,408,326; Feb. 28.
- Milking-machine-operating system. M. Leitch. No. 1,415,882; May 16.
- Milking-machine pulsator. R. B. Forsyth. No. 1,420,421; June 20.
- Milking-machine system. C. H. Hapgood. No. 1,421,773; July 4.
- Milking-machine system. J. L. Hulbert. No. 1,407,034; Feb. 21.
- Milking machinery. N. J. Daysh and C. H. Hapgood. No. 1,405,104; Jan. 31.
- Milking machines, Master-pulsator mechanism for. C. H. Hapgood. No. 1,424,401; Aug. 1.
- Milking machines, Milk and air line connection for. F. A. Gessler. No. 1,425,585; Aug. 15.
- Milking machines, Teat cup for. F. A. Gessler. No. 1,425,584; Aug. 15.
- Milking machines, Teat cup for. N. D. Rutherford. No. 1,430,191; Sept. 26.
- Milking strap. G. Henricks. No. 1,436,253; Nov. 21.
- Mill: See—
- Ball mill. Hot mill.
- Blooming mill. Ore mill.
- Cane mill. Ore stamp mill.
- Cement mill. Pulverizing mill.
- Coffee mill. Rod mill.
- Crushing mill. Rolling mill.
- Disk grinding mill. Spar mill.
- Disk mill. Step-by-step rolling mill.
- Fanning mill. Tube mill.
- Grain mill. Tube rolling mill.
- Mill. H. P. Taylor. Nos. 1,414,602-3; May 2.
- Mill and display device, Combined. J. B. Nixon. No. 1,405,318; Jan. 31.
- Mill, Rolling. W. H. Melaney. No. 1,407,334; Feb. 21.
- Mill-spout-gate. F. B. M. Mercer and C. F. Bradburn. No. 1,427,834; Sept. 5.
- Milling and grinding apparatus. J. T. Lloyd. No. 1,434,130; Oct. 31.
- Milling and like cutting tool. R. Miller. No. 1,411,799; Apr. 4.
- Milling cutter. P. P. G. Hall. No. 1,415,339; May 9.
- Milling cutter. F. Müller. No. 1,429,618; Sept. 19.
- Milling cutter. C. G. Olson. No. 1,425,893; Aug. 15.
- Milling cutter. J. L. and A. C. Vauclair. Nos. 1,432,579-80; Oct. 17.
- Milling cutter. F. Wiard. No. 1,428,308; Sept. 5.
- Milling cutter for gears. F. Müller. No. 1,429,614; Sept. 19.
- Milling cutters, Making. F. Müller. No. 1,429,613; Sept. 19.
- Milling cutters, Making. F. Müller. No. 1,429,616; Sept. 19.
- Milling machine. J. G. Furlan. No. 1,411,718; Apr. 4.
- Milling machine. W. A. Gruenberg and D. Miller. No. 1,422,850; July 18.
- Milling machine. O. Hoppe. No. 1,419,853; June 13.
- Milling machine. G. Horn. No. 1,406,866; Feb. 14.
- Milling machine. G. Komarek. No. 1,430,385; Sept. 26.
- Milling machine. C. D. Rice. No. 1,407,820; Feb. 28.
- Milling machine. W. C. Sproul. No. 1,418,490; June 6.
- Milling machine. W. Schmid. No. 1,427,761; Aug. 29.
- Milling machine. G. D. Sundstrand. No. 1,425,717; Aug. 15.
- Milling machine. G. D. Sundstrand. No. 1,430,268; Sept. 26.
- Milling machine, Axle-. J. K. Cullen and W. T. Sears. No. 1,424,755; Aug. 8.
- Milling machine, Circular. H. C. Rose. No. 1,421,030; June 27.
- Milling-machine construction. F. H. Mayoh. No. 1,437,902; Dec. 5.
- Milling machine, Drum-type continuous. J. R. Johnson. No. 1,414,812; May 2.
- Milling machine, Portable. R. MacPherson. No. 1,437,813; Dec. 5.
- Milling machine, Rigid. O. Hoppe. No. 1,423,563; July 25.
- Milling machines, Attachment for. B. F. Johnson. No. 1,406,870; Feb. 14.
- Milling or grinding machines, Attachment for. A. C. P. Russen. No. 1,407,485; Feb. 21.
- Milling tool. C. J. Converse. No. 1,423,192; July 13.
- Milling tool. F. L. Smith and C. R. Hawkins. No. 1,410,350; Mar. 21.
- Mills, Attachment for mixing. A. O. Abbott, Jr. No. 1,405,383; Feb. 7.
- Mills, Attachment for pug. C. M. Fee. No. 1,419,833; June 13.
- Mills, Automatic control for. A. E. Jupp and R. Crooks. No. 1,416,211; May 16.
- Mills, Blade for pug. H. R. Straight. No. 1,438,276; Dec. 12.
- Mills, Outlet for conical. H. W. Hardinge. No. 1,436,877; Nov. 28.
- Mills, Spinning roll for spinning. E. H. Wilson and W. C. Ehrenfeld. No. 1,408,327; Feb. 28.
- Mills, Vacuum cylinder for pulp and paper. H. B. Tohms. No. 1,439,493; Dec. 19.
- Millinery purposes, Flower for. E. V. Dillon. No. 1,438,700; Dec. 12.
- Milliner's shears. N. O. Henault. No. 1,432,246; Oct. 17.
- Mimeograph attachment. W. L. Majors. No. 1,422,286; July 11.
- Mine. G. E. Elia. No. 1,430,161; Sept. 26.
- Mine. M. C. A. H. Pape. No. 1,410,833; Mar. 28.
- Mine and controlling same, Floating. J. H. Hammond, Jr. No. 1,407,653; Feb. 21.
- Mine cage. G. M. Johnson. No. 1,433,459; Oct. 24.
- Mine cage. N. A. Michaelson. No. 1,433,022; Oct. 24.
- Mine cage, Self-dumping. W. B. Reynolds. No. 1,410,124; Mar. 21.
- Mine cages, Safety device for. G. M. Johnson. No. 1,425,203; Aug. 8.
- Mine, Depth-controlled. E. A. Sperry, Jr. No. 1,415,614; May 9.
- Mine door, Automatic. J. L. Dealy. No. 1,432,972; Oct. 24.
- Mine-door-operating mechanism. W. Kortkamp. No. 1,413,335; Apr. 18.
- Mine doors, Operating mechanism for. C. E. Carter. No. 1,419,357; June 13.
- Mine-fire-fighting apparatus. J. Kewaneeh. No. 1,421,496; July 4.
- Mine-loading machine. J. P. Mosier and E. R. Campbell. No. 1,416,050; May 16.
- Mine-skip loader. C. L. Lawton. No. 1,415,181; May 9.
- Mine-sweeping device. M. C. A. H. Pape. No. 1,410,834; Mar. 28.
- Mine-ventilating crosscuts, Stopping for. J. F. Joy. No. 1,435,008; Nov. 7.
- Mine ventilator. E. C. Condit. No. 1,404,742; Jan. 31.
- Mining and loading machine. N. D. Levin. No. 1,437,526; Dec. 5.
- Mining and loading machine. E. C. Morgan. Nos. 1,427,118-19; Aug. 29.
- Mining and loading machine. E. C. Morgan. No. 1,430,669; Oct. 3.
- Mining and quarrying machine. F. Oldroyd. No. 1,416,742; May 23.
- Mining apparatus. C. Gallacher. No. 1,411,341; Apr. 4.
- Mining apparatus. E. L. Hopkins. No. 1,414,877; May 2.
- Mining apparatus. M. P. Holmes. No. 1,435,737; Nov. 7.
- Mining apparatus. J. A. McArdle. No. 1,410,939; Mar. 28.
- Mining apparatus. C. W. Wyman. No. 1,407,120; Feb. 21.
- Mining apparatus, Electric. H. C. Berkey. No. 1,407,119; Feb. 21.
- Mining machine. A. Ball. No. 1,403,829; Jan. 17.
- Mining machine. F. Cartledge. No. 1,417,716; May 30.
- Mining machine. G. F. Dillig. No. 1,409,532; Mar. 14.
- Mining machine. M. P. Holmes. No. 1,412,868; Apr. 18.

- Mining machine. M. P. Holmes. No. 1,428,505; Sept. 5.
Mining machine. M. P. Holmes. No. 1,428,634; Sept. 12.
Mining machine. M. P. Holmes. Nos. 1,430,521-2; Sept. 26.
Mining machine. H. A. Kuhn. No. 1,425,103; Aug. 8.
Mining machine. E. C. Morgan. Nos. 1,424,113-14; July 25.
Mining machine. H. R. Straight. No. 1,425,913; Aug. 15.
Mining-machine chain. C. L. Kenton. No. 1,435,309; Nov. 14.
Mining-machine jack. M. P. Holmes. No. 1,439,677; Dec. 19.
Mining machines, Draft device for. T. E. Pray. No. 1,411,932; Apr. 4.
Mining machines, Support for. T. E. Pray. No. 1,421,557; July 4.
Mining machinery. S. E. Odell and F. L. Clift. No. 1,413,289; Apr. 18.
Mining, Means for cutting kerfs in. J. M. Christine. No. 1,404,835; Jan. 31.
Mining sheave. A. Bandura. No. 1,426,271; Aug. 15.
Mining tool. A. L. McDonald. No. 1,427,609; Aug. 29.
Miners' drills, Socket for. P. J. Desselle. No. 1,412,676; Apr. 11.
Mines, Automatic door for. J. T. Thomas. No. 1,410,425; Mar. 21.
Mines, Electric signaling system for. A. Major. No. 1,405,853; Feb. 7.
Mines, Track-cleaning machine for. J. G. Bradley and W. F. Metz. No. 1,406,527; Feb. 14.
Mineral-classifying device. J. H. Burgess. No. 1,424,339; Aug. 1.
Mineral flotation. D. W. Patterson and H. L. Woolfenden. No. 1,412,215; Apr. 11.
Mineral particles of different degrees of specific gravity, Separating mixed. W. H. Peck. No. 1,420,138; June 20.
Mineral sampler. G. R. Delamater. No. 1,414,726; May 2.
Minerals, Apparatus for leaching. C. Bouillon. No. 1,406,525; Feb. 14.
Minerals, Collecting and purifying. W. E. Trent. No. 1,421,862; July 4.
Minerals, Flotation of. W. O. Borchardt. No. 1,440,129; Dec. 26.
Minnow and making same, Artificial. D. P. Ryan. No. 1,402,798; Jan. 10.
Minnow, Artificial. E. A. Traver. No. 1,437,694; Dec. 5.
Mirror. W. La Hodny. No. 1,437,850; Dec. 5.
Mirror adjuster. E. F. Grunewald. No. 1,407,149; Feb. 21.
Mirror and light shield, Combination. H. Hubbell. No. 1,430,379; Sept. 26.
Mirror and lighting means therefor. N. and M. Sloane. No. 1,426,228; Aug. 15.
Mirror and picture frame, Reversible. J. Urbanek. No. 1,436,615; Nov. 21.
Mirror and vanity case, Combined. R. Marcher. No. 1,416,223; May 16.
Mirror attachment. O. H. Eggert. No. 1,438,103; Dec. 5.
Mirror construction. W. H. Taylor. No. 1,434,860; Nov. 7.
Mirror, Dental. W. E. Knight. No. 1,423,225; July 18.
Mirror fastener. W. H. Holder. No. 1,416,826; May 23.
Mirror, Hand. E. C. Pease. No. 1,439,836; Dec. 26.
Mirror structure. C. L. Fitchet. No. 1,422,685; July 11.
Mirror support. W. Berwald. No. 1,419,804; June 13.
Mirror support. J. O. Reavis. No. 1,409,779; Mar. 14.
Mirror-supporting bracket. W. La Hodny. No. 1,420,268; June 20.
Mirror, Traffic. J. Mandel. No. 1,428,443; Sept. 5.
Mirrors, Adjustable support for. O. C. Poole, jr. No. 1,432,206; Oct. 17.
Mirrors, Mounting for supporting. W. La Hodny. No. 1,428,042; Sept. 5.
Mirrors, pictures, signs, etc., Mountings for. N. M. Stone. No. 1,407,177; Feb. 21.
Missile thrower. C. A. Braunger. No. 1,440,333; Dec. 26.
Miter clamp. G. R. Reeves. No. 1,416,874; May 23.
Miter-curve cutter. A. F. Nathan. No. 1,406,481; Feb. 14.
Miter joint. C. E. Smith. No. 1,416,901; May 23.
Mitten. M. J. Hollenbeck. No. 1,417,323; May 23.
Mixer: See—
Alloy mixer. Fuel mixer.
Amalgam mixer. Gas mixer.
Beverage mixer. Gas and air mixer.
Cake mixer. Hot and cold water mixer.
Concrete and asphalt mixer. Liquid mixer.
Concrete mixer. Pop-corn-candy mixer.
Dough mixer. Proportional fuel mixer.
Dough mixer. Rotary fluid mixer.
Drink mixer. Shortening mixer.
Electrical drink mixer. Water mixer.
Fluid mixer.
Mixer. C. W. Hottmann, Jr. No. 1,406,457; Feb. 14.
Mixer. L. L. Montgomery. No. 1,433,469; Oct. 24.
Mixers and the like, Protective shield for. C. Gottfredsen. No. 1,412,401; Apr. 11.
Mixers, Safety clutch device for. F. X. Lauterbur. No. 1,422,213; July 11.
Mixing. C. F. Sherwood. No. 1,434,232; Oct. 31.
Mixing and beating machine. H. Trust and F. M. Ashley. No. 1,402,914; Jan. 10.
Mixing and beating machine. H. Trust and F. M. Ashley. No. 1,430,040; Sept. 26.
Mixing and conveying apparatus. C. W. Hodgson. No. 1,423,853; July 25.
Mixing and grinding apparatus eccentrically operated. R. D. Maddox. No. 1,414,197; Apr. 25.
Mixing and kneading machine and process. A. P. Lohmann. No. 1,406,666; Feb. 14.
Mixing and proportioning device or valve. D. Guelbaum. No. 1,437,649; Dec. 5.
Mixing and proportioning device or valve, Automatic. D. Guelbaum. No. 1,419,455; June 13.
Mixing apparatus. K. W. Bartlett. No. 1,428,315; Sept. 5.
Mixing apparatus. G. B. Bates. No. 1,434,585; Nov. 7.
Mixing apparatus. R. B. Grey. No. 1,409,542; Mar. 14.
Mixing apparatus. K. Pfisterer. No. 1,404,701; Jan. 24.
Mixing device. C. E. Flatter and O. E. Christopher. No. 1,430,299; Sept. 26.
Mixing device. R. B. Fryett. No. 1,424,349; Aug. 1.
Mixing device. G. Holmgren, W. A. Scharnhorst, R. W. Trask, and E. C. Russel. No. 1,436,172; Nov. 21.
Mixing device. W. H. Van Voorhis and L. D. Van Voorhis. No. 1,406,113; Feb. 7.
Mixing-device agitator. H. G. Levy. No. 1,416,100; May 16.
Mixing, kneading, mashing, cooking, or chopping substances, Machine for. L. Heiser. No. 1,430,012; Sept. 26.
Mixing machine. E. Eger. Nos. 1,427,271-2; Aug. 29.
Mixing machine. R. H. Gerard. Nos. 1,418,641-2; June 6.
Mixing machine. A. Lackey. No. 1,408,609; Mar. 7.
Mixing machine. A. P. Lohmann. No. 1,412,532; Apr. 11.
Mixing machine. G. H. Petri. No. 1,428,704; Sept. 12.
Mixing machines, Attachment for. O. R. Read. No. 1,438,856; Dec. 12.
Mixing machine, Bituminous. J. H. Ryan. No. 1,421,757; June 27.
Mixing-machine indicator attachment. N. M. Rosendahl. No. 1,410,126; Mar. 21.
Mixing machines, Driving mechanism for. C. C. Guldbeck. No. 1,426,984; Aug. 22.
Mixing machines, Journal box for. C. L. Brown. No. 1,407,186; Feb. 21.
Mixing plant, Portable. J. C. French. No. 1,417,663; May 30.
Mobile figure. M. Sieveking. No. 1,419,694; June 13.
Moocasin. E. A. Llewellyn. No. 1,410,105; Mar. 21.
Model making. R. S. Megathlin. No. 1,417,274; May 23.
Modulating method and system. L. J. Sivian. No. 1,439,134; Dec. 19.
Modulator or detector. R. V. L. Hartley. No. 1,419,562; June 13.
Moistener. E. H. Darche. No. 1,438,638; Dec. 12.
Moistener. H. Kamp. No. 1,419,504; June 13.
Moistener and dust arrester, Air. M. A. Garrett. No. 1,431,909; Oct. 10.
Moistener and furnace, Combined. B. Macfadden. No. 1,434,135; Oct. 31.
Moistener, Finger. G. W. Jones. No. 1,412,350; Apr. 11.
Moistener for stamps, envelopes, tape, etc. C. W. Beiser. No. 1,429,058; Sept. 12.
Moistening cup, Sanitary. T. Hunt and H. R. Biersdorf. No. 1,408,201; Feb. 28.
Moistening device. R. D. Cayce. No. 1,430,492; Sept. 26.
Moistening device. F. P. Reed. No. 1,432,730; Oct. 17.
Moistening device. F. P. Reed. No. 1,432,733; Oct. 17.
Moistening device. F. P. Reed and C. Nelson. No. 1,433,036; Oct. 24.
Moistening machine, Envelope. W. F. Schweiger and W. J. Balkwill. No. 1,426,781; Aug. 22.
Moisture-absorbing device. J. A. Hamlin. No. 1,425,197; Aug. 8.
Moisture, Apparatus for determining. F. E. Greenwood. No. 1,415,546; May 9.
Moisture-controlling device. F. B. Comins. No. 1,410,999; Mar. 28.
Moisture on transparent surfaces, Preparation for preventing accumulation of. W. B. Atwater. No. 1,429,824; Sept. 19.
Mold: See—
Adjustable mold. Ingot mold.
Block mold. Metal mold.
Brick mold. Multiple brick mold.
Building-block mold. Pig mold.
Casket mold. Plastic-block mold.
Casting mold. Popcorn mold.
Cement-post mold. Pulp mold.
Cheese mold. Rotary casting-machine mold.
Column mold. Printer's strip-material mold.
Combination mold. Sectional mold.
Concrete mold. Shingle mold.
Concrete-machine mold. Spark-plug mold.
Concrete-post mold. Tire mold.
Confection mold. Wall mold.
Curved-block mold.
Curbing mold.
Glass mold.
Mold. F. H. Criner. No. 1,410,169; Mar. 21.
Mold. F. H. Criner. No. 1,437,725; Dec. 5.
Mold. G. Cuozzo. No. 1,427,945; Sept. 5.
Mold. P. Dhé. No. 1,404,588; Jan. 24.
Mold. H. W. Drews. No. 1,424,627; Aug. 1.
Mold. W. D. Druse. No. 1,418,137; May 30.

Alphabetical list of inventions—Continued.

- Mold. J. J. Earley. No. 1,412,392; Apr. 11.
Mold. T. A. Edison and C. G. Kircher. No. 1,417,463; May 23.
Mold. F. R. Hahn. No. 1,436,033; Nov. 21.
Mold. E. J. Kukac. No. 1,422,108; July 11.
Mold. O. Z. Miller. No. 1,404,310; Jan. 24.
Mold. H. B. Newton. No. 1,431,027; Oct. 3.
Mold. H. Nye. No. 1,435,020; Nov. 7.
Mold. C. Sivertson. No. 1,430,763; Oct. 3.
Mold. W. C. State. No. 1,438,160; Dec. 5.
Mold. W. M. Venatic. No. 1,413,693; Apr. 25.
Mold and making same. R. F. Knight. No. 1,419,972; June 20.
Mold and treating same. H. A. Myers. No. 1,427,226; Aug. 29.
Mold. Combination. A. L. Schavoir. No. 1,407,082; Feb. 21.
Mold-cutting mechanism. W. B. Harsel. No. 1,438,159; Dec. 5.
Mold-finishing machine. T. A. Bragg. No. 1,439,354; Dec. 19.
Mold-forming apparatus. A. S. Shimon. No. 1,434,508; Nov. 7.
Mold-handling apparatus. E. D. Cary. No. 1,425,449; Aug. 8.
Mold-opening device. A. O. Abbott, jr. No. 1,424,791; Aug. 8.
Mold-opening device. W. Finn. No. 1,418,635; June 6.
Mold support. W. Walsh and D. H. and A. Miller. No. 1,419,086; June 6.
Molded articles of pure cellulose, Producing. M. G. Olivier. No. 1,422,469; July 11.
Molded articles, Production of. T. A. Edison. No. 1,411,425; Apr. 4.
Molded material and preparation. L. E. Barringer. No. 1,439,991; Dec. 26.
Molders, Removable cutter head for motor-driven. G. H. Matthews. No. 1,426,492; Aug. 22.
Molders, Spindle adjustment for motor-driven. A. Vonneut. No. 1,436,465; Nov. 21.
Mold-forming apparatus. J. C. Pelton. No. 1,409,464; Mar. 14.
Molding. J. A. Heany. No. 1,406,730; Feb. 14.
Molding. E. S. Lidstone. No. 1,424,658; Aug. 1.
Molding and flask part therefor. D. C. Mulvihill. No. 1,414,702; May 2.
Molding and measuring machine. E. W. Knowlton. No. 1,438,315; Dec. 12.
Molding apparatus. T. P. Anthony. No. 1,425,230; Aug. 8.
Molding apparatus. R. M. Jones. No. 1,408,515; Mar. 7.
Molding apparatus. J. V. Martin. No. 1,411,739; Apr. 4.
Molding apparatus. W. E. Nelson. No. 1,433,905; Oct. 31.
Molding apparatus. J. C. Wickham. No. 1,439,776; Dec. 26.
Molding, Apparatus for. D. Berryman. No. 1,430,531; Oct. 3.
Molding apparatus for founding. E. O. Beardsley and W. F. Piper. No. 1,427,348; Aug. 29.
Molding apparatus, Holding or tying means for. S. S. Colt. No. 1,424,880; Aug. 8.
Molding composition. J. L. Keller. No. 1,421,954; July 4.
Molding compound, Apparatus for. L. F. Wilson. No. 1,428,733; Sept. 12.
Molding device. T. W. de la Hunty. No. 1,436,242; Nov. 21.
Molding flask. E. C. Hafer. No. 1,416,349; May 16.
Molding flasks, Method and apparatus for conveying. E. B. Norris. No. 1,431,248; Oct. 10.
Molding hollow bodies, Apparatus for. P. A. E. Armstrong. No. 1,416,927; May 23.
Molding machine. E. O. Beardsley and W. F. Piper. No. 1,408,493; Mar. 7.
Molding machine. E. O. Beardsley and W. F. Piper. No. 1,436,141; Nov. 21.
Molding machine. J. W. Davis. No. 1,410,172; Mar. 21.
Molding machine. F. W. Dunn. No. 1,412,046; Apr. 11.
Molding machine. R. D. Eaglesfield. No. 1,407,520; Feb. 21.
Molding machine. F. M. Her. No. 1,419,566; June 13.
Molding machine. R. McClenathen. No. 1,423,349; July 18.
Molding machine. R. McClenathen. No. 1,427,217; Aug. 29.
Molding machine. W. H. Nicholls. No. 1,403,809; Jan. 17.
Molding machine. J. T. Pokorny. No. 1,423,020; July 18.
Molding machine. N. Rappez. No. 1,416,976; May 23.
Molding machine. T. A. Reynolds. No. 1,417,568; May 30.
Molding machine. G. A. Theobald. No. 1,431,062; Oct. 3.
Molding machine. H. Tscherning. No. 1,427,339; Aug. 29.
Molding machine. C. F. Wells. No. 1,431,608; Oct. 10.
Molding machine, Portable. E. O. Beardsley and W. F. Piper. No. 1,408,796; Mar. 7.
Molding machines, Sand-throwing head for. J. S. Townsend. No. 1,436,120; Nov. 21.
Molding mixture. T. Hanna. No. 1,429,586; Sept. 19.
Molding of objects by means of centrifugal force. H. P. Amplett and E. L. Jones. No. 1,427,508; Aug. 29.
Molding press. V. G. Apple. No. 1,402,705; Jan. 3.
Molding press. C. F. Burroughs. No. 1,405,484; Feb. 7.
Molding press, Sole-. J. W. Cosgrove. No. 1,407,128; Feb. 21.
Molds and apparatus therefor, Method of making. E. de Stubner. No. 1,430,859; Oct. 3.
Molds, Appliance for foundry. H. McCorkel. No. 1,405,929; Feb. 7.
Molds, Cleaning. A. R. Payne. No. 1,430,844; Oct. 3.
Molds, Coating. A. D. Straw. No. 1,420,888; June 27.
Molds for founding, Filling. E. O. Beardsley and W. F. Piper. No. 1,427,349; Aug. 29.
Molds, Form for. H. R. Suiter. No. 1,440,185; Dec. 26.
Molds, Machine for making. E. O. Beardsley and W. F. Piper. (Reissue.) No. 15,292; Feb. 28.
Molds, Means for fixing foundry cores in. L. Courtot. No. 1,403,467; Jan. 10.
Molds, Separating material for. J. B. Jones. No. 1,406,651; Feb. 14.
Mole trap. W. W. Smith. No. 1,438,561; Dec. 12.
Molten material, Gathering and discharging means for. H. A. Myers. No. 1,437,855; Dec. 5.
Molybdenum or alloys thereof, Obtaining. F. M. Becket and J. A. Holladay. No. 1,403,477; Jan. 17.
Money-delivering apparatus. J. F. Southgate and W. Carey. No. 1,427,029; Aug. 22.
Money or like wrapper or band. N. F. Kochka. No. 1,435,165; Nov. 14.
Mono and di-oxyethyl-amino-benzoic esters, Manufacture of new. J. Altwegg and J. Landrion. No. 1,418,900; June 6.
Monolithic wall. M. J. Graham. No. 1,405,579; Feb. 7.
Monoliths, Mold and method for forming. R. F. Grady. No. 1,417,599; May 30.
Monotype machines for making border rules and dotted rules, Attachment for. A. C. De Nisson and F. D. Christie. No. 1,429,720; Sept. 19.
Monument, Built-up. H. V. Zengen. No. 1,434,182; Oct. 31.
Mooring and towing gear apparatus or system, Electric. G. H. Jett. No. 1,433,079; Oct. 24.
Mop. A. E. Bienstock. No. 1,406,966; Feb. 21.
Mop. G. Burlingame. No. 1,402,047; Jan. 3.
Mop. F. B. Casmere. No. 1,420,180; June 20.
Mop. H. D. Cowden. No. 1,420,525; June 20.
Mop. W. H. Cox. No. 1,438,748; Dec. 12.
Mop. J. C. De Roo. No. 1,419,234; June 13.
Mop. W. H. Glenn. No. 1,431,391; Oct. 10.
Mop. A. Harris. No. 1,430,988; Oct. 3.
Mop. D. Kenner. (Reissue.) No. 15,274; Jan. 24.
Mop. D. Kenner. No. 1,426,084; Aug. 15.
Mop. C. Kirkpatrick. No. 1,431,536; Oct. 10.
Mop. J. McNaughton. No. 1,423,444; July 18.
Mop. F. W. Pendergast. No. 1,427,627; Aug. 29.
Mop. C. Rasmussen. No. 1,409,916; Jan. 17.
Mop. H. T. Tucker. No. 1,406,248; Feb. 14.
Mop. J. S. Welch. No. 1,420,169; June 20.
Mop. I. B. Whyte. No. 1,437,789; Dec. 5.
Mop and supporting frame therefor. J. A. Meinhardt. No. 1,414,036; Apr. 25.
Mop and wringer. P. Ebeling. No. 1,402,344; Jan. 3.
Mop and wringing attachment therefor. R. Zieschang. No. 1,426,440; Aug. 22.
Mop-cloth holder. N. Hill. No. 1,438,644; Dec. 12.
Mop, Floor. C. A. Channell. No. 1,406,610; Feb. 14.
Mop, Fountain. F. Will. No. 1,434,176; Oct. 31.
Mop frame and handle coupling. J. A. Meinhardt. No. 1,422,368; July 11.
Mop handle. E. Finley. No. 1,415,927; May 9.
Mop head. C. M. Huguley. No. 1,430,999; Oct. 3.
Mop head. D. Kenner. No. 1,427,478; Aug. 29.
Mop head. E. H. Tate. No. 1,406,244; Feb. 14.
Mop head and fastener therefor. H. M. Sturgis. No. 1,420,639; June 27.
Mop holder. C. E. Burke. No. 1,407,123; Feb. 21.
Mop holder. J. A. Meinhardt. No. 1,414,037; Apr. 25.
Mop holder. S. L. Toplitz. No. 1,411,878; Apr. 4.
Mop holder. L. J. Wolfe. No. 1,433,326; Oct. 24.
Mop holder. E. J. Zitzman. No. 1,433,445; Oct. 24.
Mop holder and wringer. E. M. McNamara. No. 1,409,747; Mar. 14.
Mop holder, Dry-. C. Hauk, jr. No. 1,434,288; Oct. 31.
Mop, Polishing. J. J. Shickluna. No. 1,428,263; Sept. 5.
Mop wringer. R. Brownson. No. 1,426,456; Aug. 22.
Mop wringer. F. Craib and J. Barnett. No. 1,419,543; June 13.
Mop, Wringer. W. Dupré. No. 1,421,071; June 27.
Mop wringer. J. M. Eiffe. No. 1,434,534; Nov. 7.
Mop wringer. W. B. Gates. No. 1,405,201; Jan. 31.
Mop wringer. S. C. Lawlor. No. 1,428,893; Sept. 12.
Mop wringer. L. V. O. F., and J. B. Shannon. No. 1,420,872; June 27.
Mons, Protective cover for. S. L. Toplitz. No. 1,408,488; Mar. 7.
Mortar spreader. J. Giovagnoli. No. 1,423,316; July 18.
Mortise gauge. E. A. Moller. No. 1,432,485; Oct. 17.
Mortise joint. F. Isoardi. No. 1,424,481; Aug. 1.
Mortise lock. F. Lutzmann. No. 1,433,831; Oct. 31.
Mortise lock. S. Segal. No. 1,425,060; Aug. 8.
Mortise lock, Cylindrical. J. E. Hjort. No. 1,437,519; Dec. 5.
Mortising machine. G. W. Campbell. No. 1,415,790; May 9.
Mortising machine. G. K. Sprenger. No. 1,405,027; Jan. 31.
Mortising machinery. L. C. Halverson. No. 1,403,241; Jan. 10.
Moss puller. A. H. Selle. No. 1,403,574; Jan. 17.

- Motion, Mechanism for converting rotary into recipro-
catory. R. Goldschmidt. No. 1,410,010; Mar. 21.
- Motion, Mechanism for converting rotary into recipro-
catory. R. Goldschmidt. No. 1,415,335; May 9.
- Motion, Method and apparatus for converting. H. H.
Platt. No. 1,414,895; May 2.
- Motion, Reverse. C. E. Burrows. No. 1,421,163; June 27.
- Motion, Take-up. F. E. Valois. No. 1,419,996; June 20.
- Motion-translating device. B. M. W. Hanson. No.
1,432,854; Oct. 24.
- Motometer lock. W. D. Bludworth. No. 1,404,263;
Jan. 24.
- Motor: See—
- | | |
|-----------------------------|----------------------------|
| Air motor. | Magnetic distortion motor. |
| Air-cooled motor. | Mercury motor. |
| Alternating-current motor. | Operating direct-current |
| Chain motor. | motor. |
| Combustion motor. | Pneumatic motor. |
| Current motor. | Rotary motor. |
| Electric motor. | Safety-razor motor. |
| Electric starting motor. | Single-phase motor. |
| Electromagnetic motor. | Spring motor. |
| Fan motor. | Spring-operated motor. |
| Fluid motor. | Swimmer's motor. |
| Fluid current motor. | Time-controlled motor. |
| Fluid-operated motor. | Tractor motor. |
| Fluid-pressure motor. | Turbine motor. |
| Fluid - pressure - actuated | Turbo displacement motor. |
| motor. | Water motor. |
| Heat motor. | Wave motor. |
| Hydraulic motor. | Wave and tidal motor. |
| Hydrocarbon motor. | Wave-power motor. |
| Internal-combustion motor. | Wind motor. |
| Liquid-fuel motor. | |
- Motor. E. W. Brown. No. 1,423,395; July 18.
- Motor. H. H. Nielsen. No. 1,424,585; Aug. 1.
- Motor. M. Nystrom. No. 1,437,263; Nov. 28.
- Motor. L. Reichard. No. 1,429,772; Sept. 19.
- Motor. C. H. Reid. No. 1,433,037; Oct. 24.
- Motor. C. Savino. No. 1,420,864; June 27.
- Motor. M. Victorsohn. No. 1,406,250; Feb. 14.
- Motor. L. Watkins. No. 1,417,003; May 23.
- Motor adjuncts, Unit assemblage of. V. Link. No.
1,422,995; July 18.
- Motor and operating the same, Combination. F. O. Far-
well. No. 1,439,979; Dec. 19.
- Motor and other cycles, Rear brake for. F. Pletscher. No.
1,241,552; July 4.
- Motor and pump, Combined. H. B. Lindsay. No. 1,433,733;
Oct. 31.
- Motor and transmission control, Combined. E. B. Wiles.
No. 1,436,422; Nov. 21.
- Motor-balancing device. J. W. Turner. No. 1,428,404;
Sept. 5.
- Motor-brush shunts, Adapter for. D. R. Knopp. No.
1,415,577; May 9.
- Motor chair. H. E. Gladish. No. 1,429,213; Sept. 12.
- Motor control. J. Eaton. No. 1,434,689; Nov. 7.
- Motor control. G. Fornaca. No. 1,438,174; Dec. 12.
- Motor control. J. F. Tritle. No. 1,412,636; Apr. 11.
- Motor control. J. D. Wright. No. 1,426,939; Aug. 22.
- Motor-control system. J. H. Albrecht. No. 1,415,971;
May 16.
- Motor-control system. B. O. Austin. No. 1,430,528; Oct. 3.
- Motor-control system. E. M. Bouton. No. 1,406,255;
Feb. 14.
- Motor-control system. A. A. Gazda. No. 1,425,640;
Aug. 15.
- Motor-control system. A. L. Harvey. Nos. 1,406,376-7;
Feb. 14.
- Motor-control system. A. L. Harvey. Nos. 1,414,408-9;
May 2.
- Motor-control system. A. L. Harvey. No. 1,425,648;
Aug. 15.
- Motor-control system. C. T. Henderson. No. 1,434,055;
Oct. 31.
- Motor-control system. C. H. Hodgkins. No. 1,406,383;
Feb. 14.
- Motor-control system. G. R. Irwin. No. 1,416,032;
May 16.
- Motor-control system. H. D. James. No. 1,425,657;
Aug. 15.
- Motor-control system. H. D. James. No. 1,435,238;
Nov. 14.
- Motor-control system. H. D. James. No. 1,438,649;
Dec. 12.
- Motor-control system. H. H. Johnston. No. 1,433,726;
Oct. 31.
- Motor-control system. H. L. Keith. No. 1,425,662;
Aug. 15.
- Motor-control system. E. S. Lammers, Jr. No. 1,414,422;
May 2.
- Motor-control system. L. G. Riley and S. B. Schenck.
No. 1,437,075; Nov. 28.
- Motor-control system. W. H. Scott. No. 1,434,153; Oct. 31.
- Motor control system. L. J. Stephenson. No. 1,411,309;
Apr. 4.
- Motor-control system. E. R. Stockle. No. 1,426,123;
Aug. 15.
- Motor control, System and apparatus for. J. F. Tritle.
No. 1,434,758; Nov. 7.
- Motor control, System of. H. W. Rogers. No. 1,411,586;
Apr. 4.
- Motor-control system, Regenerative. S. T. Webster. No.
1,415,284; May 9.
- Motor controller. A. J. Cline. No. 1,405,493; Feb. 7.
- Motor controller. L. P. Coulter. No. 1,439,871; Dec. 26.
- Motor controller. W. T. Holmes and G. H. Whittingham.
No. 1,411,700; Apr. 4.
- Motor controller. A. J. Horton. No. 1,439,892; Dec. 26.
- Motor controller. J. X. Mathieu. No. 1,410,944; Mar. 28.
- Motor controller. N. L. Mortensen. No. 1,403,342;
Jan. 10.
- Motor controller. N. L. Mortensen. No. 1,412,568;
Apr. 11.
- Motor controller. F. H. Obeschmidt. No. 1,431,249;
Oct. 10.
- Motor controller. T. H. Rodman. No. 1,422,134; July 11.
- Motor controller. L. F. Rodman. No. 1,437,018; Nov. 28.
- Motor-controlling mechanism, Servo-. H. Zoelly and A.
Gagk. No. 1,423,786; July 25.
- Motor crank, Safety. P. L. Smith. No. 1,438,465;
Dec. 12.
- Motor-cycle. F. E. Baker and T. J. Biggs. No. 1,416,315;
May 16.
- Motor cycle. H. Hildebrand. No. 1,410,180; Mar. 21.
- Motor cycle. J. A. Peters. Nos. 1,413,350-1; Apr. 18.
- Motor cycle. J. A. Peters. No. 1,416,745; May 23.
- Motor-cycle frame. R. L. Notman. No. 1,420,638;
June 27.
- Motor-cycle guard. R. Stendel. No. 1,422,632; July 11.
- Motor-cycle side cars, Chassis for. T. Gordon. No.
1,425,380; Aug. 8.
- Motor-cycle side cars, Support of. J. W. Underwood. No.
1,434,269; Oct. 31.
- Motor-cycle spring fork. J. A. Peters. No. 1,413,352;
Apr. 18.
- Motor-cycle spring structure. M. L. Previtali. No.
1,407,218; Feb. 21.
- Motor-cycle stand. F. W. Schwinn. No. 1,435,625;
Nov. 14.
- Motor cycles, Air-cooling shield for. F. B. Schreiber. No.
1,412,634; Apr. 11.
- Motor cycles and other vehicles, Fastener for driving belts
of. A. Anthony. No. 1,402,560; Jan. 3.
- Motor cycles and other vehicles having a single steering
wheel, Elastic fork for. M. A. Violet. No. 1,424,695;
Aug. 1.
- Motor cycles, Brake for side-car. G. Parker. No. 1,431,029;
Oct. 3.
- Motor cycles, Handle-bar bracket for. C. B. Franklin.
No. 1,405,707; Jan. 31.
- Motor cycles, Jack for. K. Janeszewski. No. 1,403,690;
Jan. 17.
- Motor cycles, Leg guard for. B. Bacchi. No. 1,431,866;
Oct. 10.
- Motor cycles, Rear-drive chassis for. T. Gordon. No.
1,427,731; Aug. 29.
- Motor cycles, Seat support for. J. C. Nelson. No.
1,419,294; June 13.
- Motor device. F. P. Mansbendel. No. 1,433,562; Oct. 31.
- Motor direction indicator. M. Shachtman. No. 1,428,663;
Sept. 12.
- Motor-driven automatic machines, Automatic switch for
controlling. L. M. Potts. No. 1,403,626; Jan. 17.
- Motor driven devices, Attachment for. A. G. Blocker.
No. 1,417,228; May 23.
- Motor generator. C. H. Bunch. No. 1,405,965; Feb. 7.
- Motor-generator drive. W. Caple. No. 1,413,158; Apr. 18.
- Motor meter. H. A. Henze. No. 1,409,105; Mar. 7.
- Motor meter, Electrically-lighted. C. H. Craft. No.
1,423,753; July 25.
- Motor mounting. T. H. Field. No. 1,431,884; Oct. 10.
- Motor-operated control apparatus. P. F. Shivers. No.
1,431,738; Oct. 10.
- Motor, pump, or meter, Rotary engine adaptable as. J.
R. Kemp. No. 1,407,426; Feb. 21.
- Motor, pump, or meter, Rotary engine adaptable as. J.
R. Kemp. No. 1,407,659; Feb. 21.
- Motor road and other vehicles, Wheel for. C. S. H. Snow.
No. 1,414,594; May 2.
- Motor speed-controlling system. H. N. Hurd. No.
1,431,733; Oct. 10.
- Motor stand. C. V. Fisher. No. 1,427,153; Aug. 29.
- Motor stand. G. F. Werth. No. 1,409,266; Mar. 14.
- Motor starters, Mainspring-winding mechanism for. I. J.
Maha. No. 1,420,120; June 20.
- Motor-starting device. G. A. Burnham. No. 1,415,521;
May 9.
- Motor-starting switch. H. Christianson. No. 1,402,342;
Jan. 3.
- Motor-starting switch. S. S. Wheeler. No. 1,436,329;
Nov. 21.
- Motor support. A. L. Bausman. No. 1,427,713; Aug. 29.
- Motor-supporting board. L. J. Gerson. No. 1,413,219;
Apr. 18.
- Motor switch. D. R. Harper. No. 1,424,901; Aug. 8.
- Motor-vehicle bumper. E. Nystrom. No. 1,416,861;
May 23.
- Motor-vehicle light. E. S. Woolley. No. 1,410,864;
Mar. 28.
- Motor-vehicle radiator. J. F. Kehr. No. 1,409,865;
Mar. 14.
- Motor vehicles, Runner attachment for. P. W. Palm.
No. 1,404,052; Jan. 17.
- Motor wheel. E. T. Newton. No. 1,408,385; Feb. 28.

Alphabetical list of inventions—Continued.

- Motor with change-speed device. T. Lafitte. No. 1,408,748; Mar. 7.
- Motorists, Implement for. A. M. Yocom. No. 1,437,211; Nov. 28.
- Motors against the effects of frost, Device for the protection of the cooling means of explosion. E. E. Molas. No. 1,405,797; Feb. 7.
- Motors, Arrangement for starting and regulating direct-current electric. F. Cumont. No. 1,411,419; Apr. 4.
- Motors, Attachment for internal-combustion. F. O. Klugore. No. 1,403,693; Jan. 17.
- Motors, Automatic rewind mechanism for. W. Kabbel. No. 1,425,863; Aug. 15.
- Motors, Automatic safety device for aeronautical. N. W. Dalton. No. 1,437,466; Dec. 5.
- Motors, Automatic starting and short-circuiting device for asynchronous. J. U. F. Andersen and A. F. B. Iversen. No. 1,412,228; Apr. 11.
- Motors, Baffle plate for V-type. H. J. Edwards. No. 1,416,803; May 23.
- Motors, Big end construction for. C. L. Lawrance. Nos. 1,404,617-18; Jan. 24.
- Motors, Boat stern for detachable. W. Ferold. No. 1,409,937; Mar. 21.
- Motors, Compressing mechanism for rotary internal-combustion. L. D. Epperson. No. 1,404,354; Jan. 24.
- Motors, Constructing secondary members of induction. C. A. M. Weber. No. 1,435,357; Nov. 14.
- Motors, Control of single-phase. O. S. Jennings. No. 1,433,725; Oct. 31.
- Motors, Control switch for electric. R. Ehrenfeld. No. 1,433,707; Oct. 31.
- Motors, Control system for single-phase. R. E. Hellmund. No. 1,424,300; Aug. 1.
- Motors, Controller for alternating-current. A. Simon. No. 1,413,544; Apr. 18.
- Motors, Controller for electric. H. W. Stevens. No. 1,419,178; June 13.
- Motors, Controller for synchronous. E. W. Seeger. No. 1,414,791; May 2.
- Motors, Controlling means for electric. F. G. Warburton. (Reissue). No. 15,323; Mar. 28.
- Motors, Controlling means for fluid. J. Kiss. No. 1,435,163; Nov. 14.
- Motors, Cooling system for internal-combustion. F. Wendling. No. 1,433,440; Oct. 24.
- Motors, Device for cleaning. G. Wencker. No. 1,434,640; Nov. 7.
- Motors, Driving means for spring. A. V. Wilson. No. 1,405,649; Feb. 7.
- Motors, Electrical control for winding spring. J. A. and C. K. Boggs. No. 1,438,891; Dec. 12.
- Motors, Fan-belt pulley for internal-combustion. A. W. Jones. No. 1,424,413; Aug. 1.
- Motors, Fuel-feeding system for internal-combustion. J. C. Coulombe. No. 1,406,157; Feb. 7.
- Motors, Governor for water-driven. H. S. Crispin. No. 1,406,936; Feb. 14.
- Motors, Intermittent starting device for internal-combustion. E. M. Borgo. No. 1,406,146; Feb. 7.
- Motors, Means for and method of accelerating induction. R. E. Hellmund. Nos. 1,417,731-2; May 30.
- Motors, Method and apparatus for making spring. H. L. Pitman. No. 1,436,678; Nov. 28.
- Motors, Mounting for outboard. R. B. Owen. No. 1,421,710; July 4.
- Motors, Overload apparatus for alternating-current. H. F. Stratton. No. 1,431,135; Oct. 3.
- Motors, Piston for internal-combustion. L. P. Mooers. Nos. 1,402,308-9; Jan. 3.
- Motors, Regenerative control for single-phase. R. E. Hellmund. No. 1,411,023; Mar. 28.
- Motors, Safety clutch for booster. R. M. Brown. No. 1,437,129; Nov. 28.
- Motors, Safety crank for internal-combustion. S. C. Waits. No. 1,421,624; July 4.
- Motors, Safety device for. J. Stenzel, jr. No. 1,429,655; Sept. 19.
- Motors, Secondary winding for asynchronous. A. Lindström. No. 1,406,566; Feb. 14.
- Motors, Speed-reducing gear for aviation. M. J. B. Barbarou. No. 1,438,269; Dec. 12.
- Motors, Suspension device for electric traction. C. R. Demole. No. 1,425,454; Aug. 8.
- Motors, System of speed control for induction. R. E. Hellmund and H. G. Jungk. No. 1,417,735; May 30.
- Motors, System of speed regulation and control of induction. H. A. Laycock. No. 1,408,211; Feb. 28.
- Motors, Throttle-operating mechanism for explosion. R. Esnault-Pelterie. No. 1,438,369; Dec. 12.
- Motors, Winding device for stators and armatures of. H. Kleiber and F. Mehr. No. 1,431,819; Oct. 10.
- Motors, Winding mechanism for spring. L. K. Scottford. No. 1,436,687; Nov. 28.
- Mottled decorative effects on various surfaces, Producing. H. E. Robson. No. 1,413,429; Apr. 18.
- Mounting. F. Schwanhauser. No. 1,438,790; Dec. 12.
- Mounting board, Adjustable. H. Haugh. No. 1,439,815; Dec. 26.
- Mounting means, Flexible. L. F. Bird. No. 1,439,996; Dec. 26.
- Mouse and rat trap. E. G. Spieth. No. 1,428,918; Sept. 12.
- Mousetrap. C. E. Bellharz. No. 1,414,066; Apr. 25.
- Mousetrap. P. Bondaruk. No. 1,409,358; Mar. 14.
- Mousetrap. A. Hall. No. 1,435,841; Nov. 14.
- Mousetrap. W. F. Kopke. No. 1,405,229; Jan. 31.
- Mousetrap. S. Pytlak. No. 1,432,300; Oct. 17.
- Mousetrap. C. E. Spencer. No. 1,404,327; Jan. 24.
- Mouth appliance. J. Posa. No. 1,439,910; Dec. 26.
- Mouthpiece. C. H. Burnham. No. 1,404,008; Jan. 17.
- Mouthpiece. H. G. Pape. No. 1,419,513; June 13.
- Mouthpiece, Sanitary. N. Gelb. No. 1,425,958; Aug. 15.
- Mouth prop. J. A. Heidbrink. No. 1,415,347; May 9.
- Mouth speculum. J. J. Moyer. No. 1,420,493; June 20.
- Mouth wash. E. London. No. 1,416,666; May 16.
- Movable-parts lock. I. M. Jacobs and W. Cramer. No. 1,415,354; May 9.
- Movement, Mechanical. L. Rosen. No. 1,425,902; Aug. 15.
- Movements at a distance, Apparatus for controlling. J. L. Routin. No. 1,409,586; Mar. 14.
- Movements at a distance, Electric apparatus for indicating and repeating. E. Schneider. No. 1,406,500; Feb. 14.
- Movements at a distance, Electrical apparatus for indicating and repeating. E. Schneider. No. 1,402,096; Jan. 3.
- Movements, Producing step-by-step. F. W. Wood. No. 1,408,555; Mar. 7.
- Moving bodies, Means for stabilizing. E. E. Johnson. No. 1,437,183; Nov. 28.
- Moving elements, Apparatus for guiding independently. H. I. Washburn. No. 1,427,664; Aug. 29.
- Moving elements, Apparatus for guiding independently. H. I. Washburn. No. 1,435,485; Nov. 14.
- Mower. P. A. Campbell, F. F. Eby, and S. H. Price. No. 1,424,617; Aug. 1.
- Mower. S. P. Townsend. No. 1,413,637; Apr. 25.
- Mower and clippers, Lawn. V. P. Drake. No. 1,420,309; June 20.
- Mower and sweeper device, Interconvertible. O. E. Merrill. No. 1,439,832; Dec. 26.
- Mower, Lawn. G. F. Bull. No. 1,416,784; May 23.
- Mower, Lawn. P. A. Campbell. No. 1,423,999; July 25.
- Mower, Lawn. E. F. Copeland. No. 1,403,895; Jan. 17.
- Mower, Lawn. W. H. Fletcher. No. 1,437,508; Dec. 5.
- Mower, Lawn. J. N. M. Keyzer. No. 1,417,252; May 23.
- Mower, Lawn. G. E. Morehouse. No. 1,427,617; Aug. 29.
- Mower, Lawn. J. W. Peters. No. 1,411,584; Apr. 4.
- Mower, Lawn. E. L. Strawn. No. 1,439,583; Dec. 19.
- Mower, Lawn. J. Vannette. No. 1,412,583; Apr. 11.
- Mower, Motor. J. E. Eldridge, W. B. Burgess, C. E. Burgess, and C. N. Ashbee. No. 1,428,154; Sept. 5.
- Mower, Multiple-unit. S. P. Townsend. No. 1,437,874; Dec. 5.
- Mower pitman, Automatic. C. Pearson. No. 1,423,013; July 18.
- Mower, Power-lift. E. W. Burgess. No. 1,404,431; Jan. 24.
- Mower, roller, and the like, Power-driven lawn. G. F. Bull. No. 1,419,916; June 20.
- Mower, Tractor lawn. W. H. Baldwin. No. 1,417,485; May 30.
- Mowers, Cutter bar for lawn. P. MacKenzie and N. G. Cosman. No. 1,437,434; Dec. 5.
- Mowers, Grass catcher for lawn. E. A. Blynn. No. 1,439,724; Dec. 26.
- Mowers, Machine for sharpening lawn. A. C. Stippich. No. 1,406,298; Feb. 14.
- Mowers, Seed-collector device for. G. I. Newberry. No. 1,429,294; Sept. 19.
- Mowers, Sharpening device for lawn. G. R. Cudlipp. No. 1,413,216; Apr. 18.
- Mowing machine. C. R. Keagle. No. 1,425,489; Aug. 8.
- Mowing machine, Double-action. I. M. Starks. No. 1,410,617; Mar. 28.
- Mowing machine, Power-driven. R. C. Chattin. No. 1,439,727; Dec. 26.
- Mowing machine, Sidehill. C. A. Crossler. No. 1,426,464; Aug. 22.
- Mowing-machine swather. J. R. Hinton. No. 1,419,051; June 6.
- Mowing machines, Drive mechanism for. W. T. Blake. No. 1,410,362; Mar. 21.
- Mowing machines, Lubricating system for. S. S. Smith. No. 1,408,782; Mar. 7.
- Mowing machines, Reel attachment for. B. F. Holstein and H. L. Gunter. No. 1,402,360; Jan. 3.
- Mowing machines, Swath board for. A. T. Brown. No. 1,432,014; Oct. 17.
- Mucilage cap and spreader, Combined. A. N. Ritz. No. 1,407,949; Feb. 28.
- Mucilage holder and applicator. V. E. Wasserlein. No. 1,438,510; Dec. 12.
- Mudguard with lower elastic apron. E. M. Borgo. No. 1,408,719; Mar. 7.
- Mud hook. C. N. Gerosa. No. 1,421,452; July 4.
- Mud hook. T. H. Knisely. No. 1,413,167; Apr. 18.
- Mud, Rotary. L. S. Copelin. No. 1,411,164; Mar. 28.
- Mud shoe. G. O. Baird. No. 1,427,571; Aug. 29.
- Muff, Ear. J. Lucas. No. 1,404,452; Jan. 24.
- Muffle-flattening oven and leer. E. E. Milner and W. J. Lytle. No. 1,426,309; Aug. 15.

- Muffle furnace. J. R. C. August. No. 1,414,614; May 2.
Muffle furnace. J. R. C. August. No. 1,415,424; May 9.
Muffle furnace. J. K. Carskaddon. No. 1,432,667; Oct. 17.
Muffler. A. P. Brush. No. 1,426,352; Aug. 22.
Muffler. J. T. Malsack. No. 1,403,614; Jan. 17.
Muffler. L. H. Skeels. No. 1,432,797; Oct. 24.
Muffler. F. A. Whitten. No. 1,422,403; July 11.
Muller cut-out. W. H. Cryan. No. 1,424,624; Aug. 1.
Muller cut-out. J. M. Morse. No. 1,422,466; July 11.
Muller cut-out. R. Scheid. No. 1,424,776; Aug. 8.
Mulches, Machine for laying. L. E. Bailey. No. 1,436,139; Nov. 21.
Multicutting bar. S. H. and J. W. C. Bullard. No. 1,410,451; Mar. 21.
Multigraph machines, Arbor for. M. Hurlburt. No. 1,410,014; Mar. 21.
Multimotor, Internal-combustion. F. W. Smith. No. 1,423,365; July 18.
Multiple-effect apparatus. C. R. Mabee. No. 1,420,648; June 27.
Multiple expander. T. J. Dixon. No. 1,417,980; May 30.
Multiple socket wrench. P. E. Hawkinson. No. 1,407,860; Feb. 28.
Multiple switch. A. J. Eaves. No. 1,422,549; July 11.
Multipliers, Optician's. P. N. Hansen. No. 1,412,520; Apr. 11.
Multiplying machine. H. Landsiedel. No. 1,439,175; Dec. 19.
Multipolar switch. P. Sibley. No. 1,417,576; May 30.
Munition casing. V. Mauck. No. 1,422,219; July 11.
Munition casing. V. Mauck. No. 1,427,220; Aug. 29.
Munition casing. V. Mauck. No. 1,429,958; Sept. 26.
Muntin fastener. J. N. Ryan. No. 1,410,514; Mar. 21.
Muntin joint. R. H. Buckingham. No. 1,412,163; Apr. 11.
Mushroom light. R. F. Downey. No. 1,410,007; Mar. 21.
Mushroom spawn, Propagation and protection of. E. H. Jacob. No. 1,434,822; Nov. 7.
Music, Educational game for teaching. M. J. Allen. No. 1,406,960; Feb. 21.
Music holder. H. Stengel. No. 1,430,335; Sept. 26.
Music holder, Folding. C. I. Fuller. No. 1,419,668; June 13.
Music holder, Sheet-. R. G. Johnson. No. 1,406,872; Feb. 14.
Music-leaf turner. P. P. Brock. No. 1,438,893; Dec. 12.
Music-leaf turner. F. Hall. No. 1,434,890; Nov. 7.
Music-leaf turner. K. O. W. Lindquist. No. 1,434,015; Oct. 31.
Music machines, Driving device for the music bands or strips of pneumatic. C. Hitzegrad. No. 1,436,879; Nov. 28.
Music portfolio, Sheet-. C. W. Stalling. No. 1,416,903; May 23.
Music rack and copyholder, Pocket. F. Evans. No. 1,402,483; Jan. 3.
Music-roll cabinet. E. L. Carlson. No. 1,423,078; July 18.
Music-roll cabinet. F. Perme, sr. No. 1,428,183; Sept. 5.
Music-roll cabinet. W. C. Wright and T. I. Dean. No. 1,414,317; Apr. 25.
Music roll, Perforated. L. M. Severson and A. Livingston. No. 1,411,306; Apr. 4.
Music-roll perforator and printer. J. J. Davilla. No. 1,428,277; Sept. 5.
Music-roll-printing machine. T. H. Spence and J. A. Turnell. No. 1,416,759; May 23.
Music roll, purse, and carrying bag. J. P. La Roche. No. 1,426,485; Aug. 22.
Music-roll seal. E. S. Dwelly. No. 1,426,161; Aug. 15.
Music-roll spindle. S. L. Fisher. No. 1,402,060; Jan. 3.
Music rolls and the like, Container for. C. S. Burton. No. 1,422,829; July 18.
Music rolls, Braking means for perforated. W. A. Watson and W. Eustis. No. 1,406,430; Feb. 14.
Music rolls, Container for. C. S. Burton. No. 1,402,917; Jan. 10.
Music rolls, Core reinforcement of. E. G. Clark. No. 1,407,784; Feb. 28.
Music rolls, Machine for making perforated. A. Suehy, jr., and E. W. Hopper. No. 1,427,336; Aug. 29.
Music rolls, Manufacturing. L. M. Severson and A. Livingston. No. 1,411,307; Apr. 4.
Music rolls, Registering device for player-piano. G. Bedford. No. 1,434,186; Oct. 31.
Music-sheet feeder. B. E. Mills. No. 1,435,614; Nov. 14.
Music-sheet holder and turner. P. A. Hasselblatt. No. 1,409,171; Mar. 14.
Music sheets, Apparatus for treating. N. C. Ferris. No. 1,429,727; Sept. 19.
Musical instruction blocks. G. De La Parelle. No. 1,431,529; Oct. 10.
Musical instrument. A. H. Boettcher. No. 1,402,474; Jan. 3.
Musical instrument. C. H. de Benites. No. 1,410,002; Mar. 21.
Musical instrument. A. P. Gustafson. No. 1,403,357; Jan. 10.
Musical instrument. J. Kalaf, Jr. No. 1,417,174; May 23.
Musical instrument. P. Milito. No. 1,425,032; Aug. 8.
Musical instrument. L. J. Wing. No. 1,410,235; Mar. 21.
Musical instrument, Automatic. H. Bockisch. Nos. 1,431,359-61; Oct. 10.
Musical instrument, Automatic. R. Head. No. 1,424,903; Aug. 8.
Musical instrument, Automatic. G. M. Russell. No. 1,409,483; Mar. 14.
Musical instrument, Automatic. G. M. Russell. No. 1,409,487; Mar. 14.
Musical instrument, Automatic. C. F. Stoddard. Nos. 1,409,480-2; Mar. 14.
Musical instrument, Automatic. C. F. Stoddard. No. 1,409,492; Mar. 14.
Musical instrument, Automatic. C. F. Stoddard. Nos. 1,409,494-6; Mar. 14.
Musical instrument, Automatic. A. Swensen. No. 1,404,805; Jan. 31.
Musical instrument, Automatic electrical percussion. J. Waldman. No. 1,413,638; Apr. 25.
Musical instrument, Mechanical. G. Q. Chase. No. 1,412,386; Apr. 11.
Musical instrument, Pedal-operated. E. W. Slingsby. No. 1,409,475; Mar. 14.
Musical instrument, Pneumatically-operated. A. P. Gustafson. No. 1,428,501; Sept. 5.
Musical instrument, Stringed. F. J. Kummeth. No. 1,429,954; Sept. 26.
Musical instrument, Stringed. C. G. Post. No. 1,410,504; Mar. 21.
Musical instrument, Stringed. B. Szyslak. No. 1,420,784; June 27.
Musical instruments, Apparatus for tuning. J. C. Deagan. No. 1,402,219; Jan. 3.
Musical instruments, Attachment for adjusting the pitch of wind. R. Pinnavaia. No. 1,415,051; May 9.
Musical instruments, Attachments for reed. G. B. Humes. No. 1,409,180; Mar. 14.
Musical instruments, Automatic. G. M. Russell. No. 1,409,497; Mar. 14.
Musical instruments, Bow for. C. D. Rigg. No. 1,427,851; Sept. 5.
Musical instruments, Cutoff valve for pneumatically-operated. M. W. Obermiller. No. 1,415,894; May 16.
Musical instruments, Expression device for. J. C. Hagey. No. 1,433,716; Oct. 31.
Musical instruments, Expression device for automatic. T. Danquard. Nos. 1,413,831-2; Apr. 25.
Musical instruments, Expression device for automatic. J. C. Hagey. No. 1,422,969; July 18.
Musical instruments, Expression mechanism for. C. F. Stoddard. Nos. 1,409,488-91; Mar. 14.
Musical instruments, Expression mechanism for. C. F. Stoddard. No. 1,409,493; Mar. 14.
Musical instruments, Expression mechanism for automatic. C. F. Stoddard. Nos. 1,409,484-6; Mar. 14.
Musical instruments, Keyboard for. P. Hans. No. 1,421,464; July 4.
Musical instruments, Making plates for. F. M. Ashley. No. 1,419,440; June 13.
Musical instruments, Means for securing the strings of. L. Mazzocco. No. 1,416,568; May 16.
Musical instruments, Mouthpiece for. F. L. Hurtt. No. 1,436,631; Nov. 21.
Musical instruments, Mouthpiece for wood-wind. W. Nanjoks and E. McLaughlin. No. 1,413,929; Apr. 25.
Musical instruments, Mute for. E. A. Couturier. No. 1,425,318; Aug. 8.
Musical instruments, Pedal-operated exhaust mechanism for automatic. G. P. Brand. No. 1,420,238; June 20.
Musical instruments, Player mechanism for. W. A. Watson and W. Eustis. No. 1,430,517; Sept. 26.
Musical instruments, Quick-change valve for. E. A. Couturier. No. 1,436,085; Nov. 28.
Musical instruments, Regulating and controlling bellows for pneumatically-actuated. A. Zollinger. No. 1,411,766; Apr. 4.
Musical instruments, Stringed. L. C. Bond. No. 1,431,773; Oct. 10.
Musical instruments, Stringed. W. I. Kirk. No. 1,437,379; Nov. 28.
Musical instruments, Tracking device for automatic. A. P. Gustafson. (Reissue). No. 15,332; Apr. 11.
Musical instruments, Tune sheet for automatic. L. Köhler. No. 1,415,579; May 9.
Musical notation. O. M. Fee. No. 1,424,718; Aug. 1.
Musical notation. S. A. Reeve. No. 1,415,396; May 9.
Musical transposing chart. W. M. Meling. No. 1,436,771; Nov. 28.
Musical transposing device. N. F. Mears. No. 1,431,972; Oct. 17.
Mute. P. Mazzeri. No. 1,430,175; Sept. 26.
Mute. J. Rudzick. No. 1,411,522; Apr. 4.
Mute, Combination. G. B. Humes. No. 1,409,860; Mar. 14.
Mute for band instruments, Quick-changing. A. Pappalardi. No. 1,435,173; Nov. 28.
Muting instruments of the viol. class. B. E. Mills. No. 1,431,677; Oct. 10.
N-monoalkyl derivatives of aromatic compounds, Manufacture and production of. A. Lapworth. No. 1,431,470; Oct. 10.
Nail: See—
Sheet-metal nail.
Nail. J. A. Cross. No. 1,407,641; Feb. 21.
Nail. W. K. Frost. No. 1,417,818; May 30.
Nail. C. C. Jensen. No. 1,413,737; Apr. 25.
Nail. F. C. Overbury. No. 1,410,076; Mar. 21.
Nail. J. H. Pope. No. 1,419,981; June 20.
Nail clippers. F. Winter. No. 1,430,779; Oct. 8.

Alphabetical list of inventions—Continued.

- Nail, Coated. D. Morris. No. 1,428,247; Sept. 5.
 Nail-extracting machine. A. Geiger. No. 1,432,847; Oct. 24.
 Nail-feed mechanism. H. E. Twomley. No. 1,409,801; Mar. 14.
 Nail-feed mechanism. Selective. H. E. Twomley. No. 1,412,984; Apr. 18.
 Nail-feeding mechanism. G. Goddu and F. L. Mackenzie. No. 1,408,451; Mar. 7.
 Nail-holding device. S. Bochonok. No. 1,426,249; Aug. 15.
 Nail machine. J. B. Priesthoff. No. 1,427,845; Sept. 5.
 Nail puller. A. Schrem. No. 1,419,412; June 13.
 Nail, Roofing. E. Boley. No. 1,435,134; Nov. 7.
 Nail set. C. J. Carter. No. 1,412,507; Apr. 11.
 Nail set, Multiple. C. T. Greener. No. 1,440,072; Dec. 26.
 Nail set or center punch. A. Hanley. No. 1,409,711; Mar. 14.
 Nail, Sheet-metal. E. E. Hardy. No. 1,404,760; Jan. 31.
 Nail strings, Machine for making. A. Latham. No. 1,415,936; May 16.
 Nailing implement. B. R. Kabigting. No. 1,406,027; Feb. 7.
 Nailing machine. W. N. Oehm and G. Powell. No. 1,412,626; Apr. 11.
 Nailing machine. K. I. Signell. No. 1,409,419; Mar. 14.
 Nails, Machine for making insulated. C. C. Blake. No. 1,411,951; Apr. 4.
 Nails, Manufacture of. M. Howarth. No. 1,418,186; May 30.
 Name plate. F. A. Strassweg. No. 1,439,034; Dec. 19.
 Name-plate attachment. O. Nelson. No. 1,405,547; Feb. 7.
 Naphtha, Cracking solvent. F. E. Dodge. No. 1,409,893; Mar. 14.
 Naphthalene, Purification of. S. P. Miller. No. 1,438,710; Dec. 12.
 Naphthalene, Purifying. D. F. Gould. No. 1,431,394; Oct. 10.
 Napkin-dispensing device. J. D. Ingram. No. 1,407,156; Feb. 21.
 Napkin-dispensing device. C. R. Vinson. No. 1,423,701; July 25.
 Napkins, towels, etc., Machines for folding. L. F. Mustee. No. 1,404,636; Jan. 24.
 Nap-restoring and shine-removing machine. M. T. Donoho. No. 1,432,976; Oct. 24.
 Nap-restoring device. F. N. Stanley. No. 1,436,921; Nov. 28.
 Navigating instrument. B. W. Prall. No. 1,428,449; Sept. 5.
 Navigating the air, Machine for. S. P. Nemeth. No. 1,414,577; May 2.
 Navigation, Device for measuring danger angle in. E. Stanwood, Jr. No. 1,433,667; Oct. 31.
 Navigation light. J. A. O'Neil. No. 1,415,685; May 9.
 Nebulizer of liquids. A. W. Morse. No. 1,439,320; Dec. 19.
 Neckband. J. Feulner. No. 1,440,347; Dec. 26.
 Neckband and collar holder. J. Layden. No. 1,427,746; Aug. 29.
 Necking machine. J. A. Stock. No. 1,425,294; Aug. 8.
 Necklaces and the like, Clasp for. M. A. Fischer. No. 1,431,729; Oct. 10.
 Necklaces, etc., Fastening device for. H. Silverman and M. L. Golieb. No. 1,410,770; Mar. 28.
 Neckscarfs, Attachment for. M. Goldberg. No. 1,422,758; July 11.
 Necktie. J. M. Almedia. No. 1,438,885; Dec. 12.
 Necktie. S. R. Asch. No. 1,440,125; Dec. 26.
 Necktie. O. Kafka. No. 1,429,951; Sept. 26.
 Necktie. W. K. Meyer. No. 1,412,665; Apr. 11.
 Necktie. J. Silberman and L. Kahn. No. 1,402,903; Jan. 10.
 Necktie. M. Spiegler. No. 1,431,268; Oct. 10.
 Necktie and making up same. J. F. Horne. No. 1,435,006; Nov. 7.
 Necktie and making the same. S. Worms. No. 1,436,134; Nov. 21.
 Necktie attachment. R. P. Wallis. No. 1,434,032; Oct. 31.
 Necktie brace. J. H. Rice. No. 1,425,696; Aug. 15.
 Necktie fastener. C. O. Shannon. No. 1,434,797; Nov. 7.
 Necktie former and fastener. W. F. Olson. No. 1,431,837; Oct. 10.
 Necktie former and holder. B. R. Skinner. No. 1,414,529; May 2.
 Necktie holder. J. L. Dorward. No. 1,409,158; Mar. 14.
 Necktie holder. T. M. Gupst. No. 1,426,183; Aug. 15.
 Necktie holder. G. A. Miller. No. 1,434,120; Oct. 31.
 Necktie holder. N. V. Kline. No. 1,430,909; Oct. 3.
 Necktie holder. P. Klinkhammer. No. 1,423,498; July 18.
 Necktie holder. F. I. Laveran. No. 1,438,247; Dec. 12.
 Necktie holder. M. Magnuson. No. 1,429,086; Sept. 12.
 Necktie holder. H. O. Miller. No. 1,411,058; Mar. 28.
 Necktie holder. I. T. Reilly. No. 1,439,261; Dec. 19.
 Necktie holder. L. Waluch. No. 1,408,151; Feb. 28.
 Necktie holder and collar button, Combination. H. L. Hill. No. 1,414,412; May 2.
 Necktie holder and collar connector. R. U. Day. No. 1,403,741; Jan. 17.
 Necktie-holder lock. J. L. Dorward. No. 1,437,096; Nov. 28.
 Necktie press. E. S. Norton. No. 1,435,729; Nov. 14.
 Necktie press and holder. H. D. Brandt. No. 1,435,694; Nov. 14.
 Necktie presser. W. A. Selts. No. 1,431,334; Oct. 10.
 Necktie retainer. L. B. Brooks. No. 1,422,658; July 11.
 Necktie securing device. J. J. Arcate and T. V. Fowler. No. 1,410,728; Mar. 28.
 Necktie supporter. C. R. Wheeler. No. 1,427,139; Aug. 29.
 Neckwear. Men's. J. A. Hewes. No. 1,419,137; June 13.
 Needle. G. Pitoni. No. 1,415,698; May 9.
 Needle. J. F. Snider. No. 1,417,357; May 23.
 Needle and tweezers, Combined. S. H. Clark. No. 1,433,340; Oct. 24.
 Needle-bar for full-fashioned machines. C. F. Meyer. No. 1,420,857; June 27.
 Needle, Crochet. V. Puc. No. 1,415,472; May 9.
 Needle, Embroidery. L. D. Hover. No. 1,421,479; July 4.
 Needle, Embroidery. L. D. Hover. No. 1,428,960; Sept. 12.
 Needle, Embroidery. S. M. Riker. No. 1,428,397; Sept. 5.
 Needle, Embroidery. F. H. Webster. No. 1,407,609; Feb. 21.
 Needle-guard. J. E. Chalmers. No. 1,433,872; Oct. 31.
 Needle holder and magazine, Crochet-. P. Till. No. 1,420,893; June 27.
 Needle or stylus. G. E. Bernecker. No. 1,408,337; Feb. 28.
 Needle-plate holder, Quick-changing. R. E. Gosney. No. 1,436,496; Nov. 21.
 Needle-pointing machine. R. A. Hutchinson. No. 1,419,140; June 13.
 Needle threader. T. Balmer. No. 1,436,562; Nov. 21.
 Needles, Pressing and sustaining means for spring-beard. A. M. Pigeon. No. 1,403,105; Jan. 10.
 Negative-registering device. A. T. Koppe. No. 1,417,749; May 30.
 Negative, Transfer. M. Ullmann. No. 1,436,629; Nov. 21.
 Negatives, Production of. M. Ullmann. No. 1,436,125; Nov. 21.
 Nest. H. S. Dodson. No. 1,412,677; Apr. 11.
 Nest and flock culler, Pedigree trap. J. L. Roberts. No. 1,417,631; May 30.
 Nest, Collapsible trap. A. C. Bosel. No. 1,413,894; Apr. 25.
 Nest for poultry, Automatically-operating. E. Ohren. No. 1,436,899; Nov. 28.
 Nest, Hen. W. A. Purdy. No. 1,435,497; Nov. 14.
 Nest, Hen. W. R. Smith. No. 1,435,670; Nov. 14.
 Nest, Hen's. F. N. Backlund. No. 1,431,278; Oct. 10.
 Nest, Hen's. H. A. Hindman and G. A. Parsons. No. 1,436,039; Nov. 21.
 Nest, Hen's. L. H. Johnson. No. 1,433,460; Oct. 24.
 Nest, Hen's. J. W. Markell. No. 1,439,182; Dec. 19.
 Nest, Hen's. R. J. Miller. No. 1,412,566; Apr. 11.
 Nest, Hen's. O. K. Olson. No. 1,402,790; Jan. 10.
 Nest, Nursery. F. W. Stotler. No. 1,413,068; Apr. 18.
 Nest, Trap. D. M. Baker. No. 1,411,397; Apr. 4.
 Nest, Trap. F. A. Van Orden. No. 1,434,271; Oct. 31.
 Nesting device. I. Israel. No. 1,424,647; Aug. 1.
 Net, Dip. G. W. McManahan. No. 1,432,478; Oct. 17.
 Net frame, Baby. B. E. Akers. No. 1,418,608; June 6.
 Net, Landing. F. Bartos. No. 1,416,543; May 16.
 Nets, Trip for hay. K. H. Smelser. No. 1,402,675; Jan. 3.
 Newspaper clamp. S. Oppenheimer. No. 1,428,900; Sept. 12.
 Newspaper holder. R. Zakrzewski. No. 1,432,652; Oct. 17.
 Newspapers, books, etc., Portable kiosk for selling. D. Ihmels. No. 1,406,021; Feb. 7.
 Nickel carbonyl in manufacturing process, Applying. R. Lessing. No. 1,426,662; Nov. 28.
 Nipple and accessory lock, Filling. R. Stirling, jr. (Re-issue). No. 15,483; Oct. 31.
 Nipple chuck. J. L. Prickett. No. 1,432,121; Oct. 17.
 Nipple-expanding machine. P. Mueller and A. C. Schuermann. No. 1,415,043; May 9.
 Nipple, Flow. C. Allen. No. 1,404,724; Jan. 31.
 Nipple, Noncollapsible. D. B. Broadwater. No. 1,401,958; Jan. 3.
 Nipple, Nursing. H. A. Sellers. No. 1,431,762; Oct. 10.
 Nipples, Dust cap for lubrication. B. H. Skelly. No. 1,408,229; Feb. 28.
 Nipples on tubes, Mechanism for forming. M. Lowy. No. 1,432,073; Oct. 17.
 Nitramines, Preparation of aromatic. L. Haas. No. 1,423,494; July 18.
 Nitrate, Guanidine. T. L. Davis. No. 1,440,063; Dec. 26.
 Nitrating apparatus. G. Juer. No. 1,431,161; Oct. 10.
 Nitric fumes, Recovering waste. W. de Sveshnikoff. No. 1,406,353; Feb. 14.
 Nitric oxide, Apparatus for producing. H. A. Humphrey. No. 1,429,035; Sept. 12.
 Nitrocellulose, Apparatus for making. H. A. Kendall. No. 1,410,814; Mar. 28.
 Nitrocellulose composition. A. F. Sulzer. No. 1,429,174; Sept. 12.
 Nitrocellulose powder grains, Coating for. T. L. Davis. No. 1,432,322; Oct. 17.
 Nitrogen and carbon dioxide that are deficient in oxygen, Production of gas mixtures of. J. Muchka. No. 1,406,479; Feb. 14.
 Nitrogen Apparatus for the oxidation of atmospheric. B. Thomas. No. 1,437,569; Dec. 5.

- Nitrogen compounds, Producing. H. Specketer. No. 1,409,124; Mar. 7.
- Nitrogen fixation. C. W. Miles. No. 1,408,625; Mar. 7.
- Nitrogen, Fixation of. K. P. McElroy. No. 1,408,754; Mar. 7.
- Nitrogen, Furnace for oxidation of atmospheric. A. U. Avera. No. 1,429,013; Sept. 12.
- Nitrogen oxides, Concentration of. J. S. Blowski. No. 1,434,674; Nov. 7.
- Nitroglycerin explosive. C. A. Woodbury. No. 1,434,642; Nov. 7.
- Nitrophenols, Mercury nitrate as a reagent for the preparation of. T. L. Davis. No. 1,417,368; May 23.
- Nitrosulphone of selenium. F. Klein. No. 1,412,873; Apr. 18.
- Nitrous vapors in the form of aqueous nitric acid, Recovering. P. A. Guye. No. 1,433,004; Oct. 24.
- Noisemaker. A. L. Girard. No. 1,419,923; June 20.
- Noncorroding antifreeze mixture. A. Z. Pedersen. No. 1,405,320; Jan. 31.
- Nonflare rain-shield plate and making the same. M. Wilson. No. 1,437,580; Dec. 5.
- Nonrefillable container. A. Vermeulen. No. 1,427,245; Aug. 29.
- Nonresalable box. A. J. Brown and G. I. Paulson. No. 1,429,185; Sept. 12.
- Nonsiphon trap. S. R. Blackstone. No. 1,411,402; Apr. 4.
- Nonskid and traction device. A. Johnson and O. Landholm. No. 1,407,004; Feb. 28.
- Nonskid appliance. G. S. Cucchiara. No. 1,424,882; Aug. 8.
- Nonskid chain. J. Iverson. No. 1,418,873; June 6.
- Nonskid chain. M. R. Johnson. No. 1,423,564; July 25.
- Nonskid chain. C. I. Peak. No. 1,419,751; June 13.
- Nonskid chain device. G. S. Everhart. No. 1,407,741; Feb. 28.
- Nonskid chains, Attaching device for. G. Staples. No. 1,420,778; June 27.
- Nonskid chains, Traction device for. T. C. Ayers. No. 1,417,130; May 23.
- Nonskid device. T. M. Avery. No. 1,409,643; Mar. 14.
- Nonskid device. E. R. Devlin. No. 1,412,344; Apr. 11.
- Nonskid device. P. E. Glafcke. No. 1,402,855; Jan. 10.
- Nonskid device. E. E. Scharrow. No. 1,400,975; Mar. 21.
- Nonskid device. E. C. Spelden. No. 1,435,626; Nov. 14.
- Nonslip device. J. G. Zertuche. No. 1,411,200; Mar. 28.
- Nonskid mud and snow device. R. E. Sharp. No. 1,418,839; June 6.
- Nonskid unit, Chain. J. R. Reyburn. No. 1,416,382; May 16.
- Nonskidding device for shoes. O. Tagliaferry. No. 1,429,259; Sept. 19.
- Nose-forming machine. W. Ferrier. No. 1,436,489; Nov. 21.
- Nose grip. I. M. Schwab. No. 1,412,542; Apr. 11.
- Nose protector. G. E. Hafer. No. 1,436,313; Nov. 21.
- Nose ring. E. Glick. No. 1,424,563; Aug. 1.
- Notebook cover. E. H. Long. No. 1,426,657; Aug. 22.
- Note holder. H. Levy. No. 1,405,850; Feb. 7.
- Note sheets, Machine for use in the manufacture of perforated. C. F. Stoddard. No. 1,432,424; Oct. 17.
- Notes, System of keeping. C. H. Goodyear. No. 1,422,696; July 11.
- Novelty. R. Romine. No. 1,435,179; Nov. 14.
- Nozzle. N. P. Casorso and C. Vacher. No. 1,417,031; May 23.
- Nozzle. G. A. Gieseler. No. 1,416,013; May 16.
- Nozzle. N. S. Schaffer. No. 1,439,763; Dec. 26.
- Nozzle. W. H. Willis, jr. No. 1,426,136; Aug. 15.
- Nozzle, Air. A. P. Strong. No. 1,412,977; Apr. 18.
- Nozzle cleaner. A. Holmquist. No. 1,435,300; Nov. 14.
- Nozzle, Combined flushing and sprinkling. H. E. Olsen. No. 1,434,625; Nov. 7.
- Nozzle, Douche. J. Rose. No. 1,434,964; Nov. 7.
- Nozzle, Fluid-distributing. R. Sykora. No. 1,409,259; Mar. 14.
- Nozzle, Fuel. R. F. Metcalfe. No. 1,436,351; Nov. 21.
- Nozzle, Spray. O. Jacobsen. No. 1,431,526; Oct. 10.
- Nozzle, Spray-gun. W. A. Heinrich. No. 1,438,239; Dec. 12.
- Nozzle, Sprayer. G. J. Cassidy. No. 1,428,530; Sept. 12.
- Nozzle, Spraying. W. E. Boyce. No. 1,432,958; Oct. 24.
- Nozzle, Spraying. W. J. Brown. No. 1,430,533; Oct. 3.
- Nozzle, Spraying and distributing. P. Cameron. No. 1,415,523; May 9.
- Nozzle, Sprinkling. A. K. Brauer. No. 1,430,620; Oct. 3.
- Nozzle, Suction. W. H. K. Bennett. No. 1,425,165; Aug. 8.
- Nozzle, Traveling-screen. M. Swintek. No. 1,426,616; Aug. 22.
- Nozzle, Two-fluid spray. H. D. Binks. No. 1,433,255; Oct. 24.
- Nozzle, Vacuum-cleaner. A. C. Frank. No. 1,427,200; Aug. 29.
- Nozzles, Safety means for discharge. F. Heidberg and C. E. Vanderkleed. No. 1,405,132; Jan. 31.
- Number board. A. T. Gay. No. 1,414,271; Apr. 25.
- Number-plate frame. H. A. Thayer. No. 1,412,580; Apr. 11.
- Number-plate holder. A. G. Eklof. No. 1,403,073; Jan. 10.
- Number plate, Illuminated. G. H. Needham. No. 1,429,753; Sept. 19.
- Numbering fixture. J. Severson. No. 1,430,407; Sept. 26.
- Numbering head. C. A. Meisel. No. 1,421,525; July 4.
- Nursery chair. W. W. Chrisman. No. 1,440,132; Dec. 26.
- Nut. R. E. H. Lovelace. No. 1,405,238; Jan. 31.
- Nut. J. A. Wheeler. No. 1,421,638; July 4.
- Nut and bolt lock. J. Cashmer. No. 1,433,675; Oct. 31.
- Nut and bolt, Lock. A. L. Harrell. No. 1,413,024; Apr. 18.
- Nut and bolt lock. J. B. Whittaker. No. 1,406,315; Feb. 14.
- Nut and bolt, Quick-releasable. W. S. Alexander. No. 1,406,804; Feb. 14.
- Nut and pipe wrench, Combined. J. McGhee. No. 1,429,517; Sept. 19.
- Nut and washer. F. H. Smith. No. 1,406,423; Feb. 14.
- Nut blancher. R. A. Greene. No. 1,434,816; Nov. 7.
- Nut blank and locking nut. I. C. Woodward. No. 1,416,087; May 16.
- Nut bowl and cracker. B. L. Mallory. No. 1,429,444; Sept. 19.
- Nut, Castellated. F. O. Jaques, jr. No. 1,425,591; Aug. 15.
- Nut-castellating mechanism. A. Spear. No. 1,430,334; Sept. 26.
- Nutcracker. G. Bokor. No. 1,436,571; Nov. 21.
- Nutcracker. A. C. Guhl. No. 1,415,338; May 9.
- Nutcracker. I. Isaachsen. No. 1,420,263; June 20.
- Nutcracker. A. R. Maness. No. 1,417,272; May 23.
- Nutcracker. H. W. McClung. No. 1,412,249; Apr. 11.
- Nutcracker. H. M. Pitman. No. 1,437,860; Dec. 5.
- Nut-cracking machine. H. C. Atwood. No. 1,412,443; Apr. 11.
- Nut-cracking machine. F. A. Coari. No. 1,407,325; Feb. 21.
- Nut-cracking machine. C. B. Eaton. No. 1,408,697; Mar. 7.
- Nut-handling machine. R. F. Redwine. No. 1,410,122; Mar. 21.
- Nut holder. C. A. Mills and J. G. Baker. No. 1,431,832; Oct. 10.
- Nut interlock with feed-control lever. D. C. Klausmeyer. No. 1,414,327; Apr. 25.
- Nut lock. E. M. Bable. No. 1,418,050; May 30.
- Nut lock. J. H. Ballentine. No. 1,406,956; Feb. 14.
- Nut lock. E. H. Bechberger. (Reissue.) No. 15,379; June 13.
- Nut lock. J. A. Bilterman. No. 1,409,817; Mar. 14.
- Nut lock. A. Birchman, G. O. Matter, and J. H. McCoy. No. 1,424,978; Aug. 8.
- Nut lock. A. B. Bodie. No. 1,404,186; Jan. 24.
- Nut Lock. J. W. Broderick. No. 1,432,050; Oct. 17.
- Nut lock. T. H. Brown. No. 1,424,277; Aug. 1.
- Nut lock. J. Cappel and C. R. Edwards. No. 1,428,753; Sept. 12.
- Nut Lock. J. H. Carr and M. A. Powers. No. 1,406,169; Feb. 14.
- Nut lock. E. J. Cole. No. 1,438,097; Dec. 5.
- Nut lock. W. J. Chism. No. 1,421,127; June 27.
- Nut lock. H. H. Clark. No. 1,412,387; Apr. 11.
- Nut lock. R. L. Cochrane. No. 1,427,194; Aug. 29.
- Nut Lock. F. P. C. Davis, J. Hall, and A. G. Hall. No. 1,435,216; Nov. 14.
- Nut lock. C. L. Dunham. No. 1,409,934; Mar. 21.
- Nut lock. S. C. Enzenauer. No. 1,434,737; Nov. 7.
- Nut lock. J. J. Farrell. No. 1,427,797; Sept. 5.
- Nut lock. W. Farrell. No. 1,438,104; Dec. 5.
- Nut lock. W. L. Fees. No. 1,410,290; Mar. 21.
- Nut lock. P. T. Fiehler. No. 1,413,976; Apr. 25.
- Nut lock. J. Fields. No. 1,403,902; Jan. 17.
- Nut lock. F. J. Goodie. No. 1,411,720; Apr. 4.
- Nut lock. R. S. Hardie. No. 1,431,459; Oct. 10.
- Nut lock. E. D. Hare. No. 1,404,023; Jan. 17.
- Nut lock. R. M. Hatch. No. 1,416,292; May 16.
- Nut lock. P. Hleb. No. 1,404,290; Jan. 24.
- Nut lock. R. T. Hosking. No. 1,419,564; June 13.
- Nut Lock. H. T. Hutton. No. 1,436,805; Nov. 28.
- Nut lock. R. A. Joberty. No. 1,410,812; Mar. 28.
- Nut lock. J. E. Jones and J. L. Goodnough. No. 1,414,188; Apr. 25.
- Nut Lock. A. C. Kerwin. No. 1,438,312; Dec. 12.
- Nut lock. J. A. Kimball. No. 1,405,225; Jan. 31.
- Nut lock. M. D. Kimball. No. 1,417,334; May 23.
- Nut lock. W. K. Kiper. No. 1,433,382; Oct. 24.
- Nut lock. E. A. Kvarnstrom. No. 1,405,138; Jan. 31.
- Nut Lock. J. C. Lego. No. 1,429,955; Sept. 26.
- Nut lock. A. H. Mason. No. 1,437,346; Nov. 28.
- Nut lock. W. E. Merryman. No. 1,434,558; Nov. 7.
- Nut lock. O. R. and A. C. Miller. No. 1,404,630; Jan. 24.
- Nut Lock. H. G. Norwood. No. 1,406,065; Feb. 7.
- Nut lock. N. A. Palmgren. No. 1,420,737; June 27.
- Nut lock. T. A. Randals. No. 1,426,319; Aug. 15.
- Nut lock. J. J. Sammons. No. 1,406,161; Feb. 7.
- Nut lock. W. M. Wear and W. L. Drake. No. 1,427,566; Aug. 29.
- Nut lock. T. A. Weaver. No. 1,413,548; Apr. 18.
- Nut lock. J. V. Woodworth. No. 1,429,180; Sept. 12.
- Nut lock. W. D. Yocum. No. 1,407,779; Feb. 28.
- Nut Lock. G. A. Yungkruger. No. 1,431,076; Oct. 3.
- Nut lock. H. J. Zottel. No. 1,426,530; Aug. 22.
- Nut-locking device. T. A. Gannon. No. 1,403,312; Jan. 10.
- Nut-locking tool. A. Homann. No. 1,407,276; Feb. 21.
- Nut meats from broken nuts, Separator for. A. Stables. No. 1,416,585; May 16.
- Nut, Quick-acting. W. T. Howard. No. 1,404,296; Jan. 24.
- Nut, Rotary sectional inspective. D. C. Klausmeyer. No. 1,419,906; June 13.

Alphabetical list of inventions—Continued.

- Nut, Safety. G. L. Larson. No. 1,421,090; June 27.
 Nut-salting machine. M. Peruzzi. No. 1,423,014; July 18.
 Nut, Sectional. Inspective. D. C. Klausmeyer. No. 1,415,840; May 9.
 Nut, Self-adjusting. B. D. Allbaugh. No. 1,408,962; Mar. 7.
 Nut-shelling apparatus. H. L. Smith and H. L. Smith, Jr. No. 1,418,840; June 6.
 Nut-slotting device. F. A. Schroeder. No. 1,431,690; Oct. 10.
 Nut-tapping machine. S. B. Clay. No. 1,410,997; Mar. 28.
 Nut-tapping machine. P. N. Spurr and R. Stramitz. No. 1,416,135; May 16.
 Nut, Threaded. V. J. Van Horn. No. 1,432,043; Oct. 17.
 Nut warming and vending machine. C. W. Mabey. No. 1,425,531; Aug. 15.
 Nut wrench. M. F. Quigley. No. 1,403,059; Jan. 10.
 Nuts and article made thereby, Making. H. F. Schroeder. No. 1,429,645; Sept. 19.
 Nuts and bolts, Device for locking. C. Whitaker. No. 1,440,324; Dec. 26.
 Nuts and the like, Device for locking. O. Nettlefold. No. 1,415,681; May 9.
 Nuts, bolts, and the like, Locking means for. H. Batchelor. No. 1,423,746; July 25.
 Nuts, Declutchable safety collar for rotatable. D. C. Klausmeyer. No. 1,407,160; Feb. 21.
 Nuts, Forming. R. L. Wilcox. No. 1,408,917; Mar. 7.
 Nuts, Husking ivory. G. Baxter. No. 1,433,928; Oct. 31.
 Nuts, Machine for castellating. W. Umbdenstock. No. 1,410,145; Mar. 21.
 Nuts, Machine for manufacturing castle. J. J. Grant. No. 1,404,022; Jan. 17.
 Nuts, Machine for removing the skins from the kernels of. G. Park. No. 1,410,951; Mar. 28.
 Nuts, Machine for sawing vegetable-ivory. H. W. Crowell. No. 1,409,676; Mar. 14.
 Nuts, Means for making castellated. F. O. Jaques, Jr. No. 1,414,417; May 2.
 Nuts, Method and apparatus for cracking. S. Cooper. No. 1,439,694; Dec. 26.
 Nuts to bolts, Machine for applying. H. Thomas. No. 1,431,493; Oct. 10.
 Oar, Bow-facing. W. H. Clay. No. 1,406,932; Feb. 14.
 Oat groats and the like, Production of. H. C. Otterstedt. No. 1,423,450; July 18.
 Obesity-reducing band. T. Lawton. No. 1,440,157; Dec. 26.
 Observation apparatus, Coin controlled. D. J. Richardson and H. T. Wheeler. No. 1,434,845; Nov. 7.
 Observation post, Disappearing. G. R. Grigsby. No. 1,432,063; Oct. 17.
 Obstetrical instrument. A. Byrd. No. 1,424,984; Aug. 8.
 Odometer. F. F. Dorsey. No. 1,409,366; Mar. 14.
 Odometer, Hub. C. Carson. No. 1,424,000; July 25.
 Odometer register drive, Hub. R. R. Karich. No. 1,437,942; Dec. 5.
 Oil. W. N. Blakeman, Jr. No. 1,423,392; July 18.
 Oil and apparatus useful therefor, Transporting. F. M. Seibert and E. T. Gregg. No. 1,439,451; Dec. 19.
 Oil and carbohydrate-gas extracting process, Mineral. G. Schneiders. Nos. 1,418,097-8; May 30.
 Oil and flour from bean, Preparing odorless and colorless. Y. Yamamoto. No. 1,433,168; Oct. 24.
 Oil and fuel gas from oil shales and oil sands, Retort furnace and condensing apparatus for the education of. C. L. Buckingham. No. 1,425,074; Aug. 8.
 Oil and gas burner. W. M. Oney. No. 1,416,574; May 16.
 Oil and gas furnace, Combined. E. A. Quinn. No. 1,432,087; Oct. 17.
 Oil and gases, Treating crude. A. J. Paris, Jr. No. 1,405,153; Jan. 31.
 Oil and gasoline, Vacuum sampler for tanks of refined. C. E. Johnson. No. 1,416,354; May 16.
 Oil and grease deflector. J. H. Ram. No. 1,417,410; May 23.
 Oil and grease distributor, Force-feed. W. L. Klaserner. No. 1,428,547; Sept. 12.
 Oil and like extractor. K. F. Wilhelm. No. 1,418,503; June 6.
 Oil and making same, Paint. F. A. Levenhagen and J. W. Evans. No. 1,407,469; Feb. 21.
 Oil and the like, Apparatus for treating fish. J. C. W. Stanley. No. 1,425,803; Aug. 15.
 Oil, Apparatus for dehydrating. S. A. Giebner. No. 1,414,079; Apr. 25.
 Oil, Apparatus for elevating. W. R. Stuck. No. 1,410,228; Mar. 21.
 Oil, Apparatus for excluding water from drilled wells for. J. C. Swan. No. 1,413,197; Apr. 18.
 Oil, Apparatus for pumping. J. D. Nixon. No. 1,412,886; Apr. 18.
 Oil, Apparatus for treating. H. F. Neumeyer. No. 1,426,836; Aug. 22.
 Oil, Apparatus for treating crude. W. H. Summers. No. 1,405,876; Feb. 7.
 Oil-bearing material, Cooker for. R. A. Trace. No. 1,425,811; Aug. 15.
 Oil-bearing shale, Apparatus for treating. G. A. Heimbucher. No. 1,421,228; June 27.
 Oil box. W. H. Burns. No. 1,430,490; Sept. 26.
 Oil burner. A. H. Adox. No. 1,429,215; Sept. 19.
 Oil burner. J. F. Bannon. No. 1,424,795; Aug. 8.
 Oil burner. J. A. P. Belair. No. 1,438,634; Dec. 12.
 Oil burner. T. Boudreaux. No. 1,434,324; Oct. 31.
 Oil burner. A. H. Brainerd. No. 1,409,918; Mar. 21.
 Oil burner. L. S. Chadwick. No. 1,405,488; Feb. 7.
 Oil burner. G. S. Clyde. No. 1,404,582; Jan. 24.
 Oil burner. L. Conow. No. 1,426,361; Aug. 22.
 Oil burner. H. M. Dahl. No. 1,408,271; Feb. 28.
 Oil burner. W. H. Davidson. No. 1,414,725; May 2.
 Oil burner. J. O. Decuir. No. 1,423,650; July 25.
 Oil burner. J. Dingiroglou. No. 1,403,850; Jan. 17.
 Oil burner. J. W. Farrar. No. 1,417,371; May 23.
 Oil burner. A. N. Forler and R. W. Langs. No. 1,403,398; Jan. 10.
 Oil burner. C. Garry. No. 1,439,306; Dec. 19.
 Oil burner. E. Grossenbacher. No. 1,425,196; Aug. 8.
 Oil burner. N. Hale. No. 1,429,137; Sept. 12.
 Oil burner. F. Hardinge. No. 1,417,520; May 30.
 Oil burner. W. E. Huenefeld. No. 1,402,425; Jan. 3.
 Oil burner. T. W. Hunter. No. 1,433,822; Oct. 31.
 Oil burner. A. W. Jones. No. 1,429,434; Sept. 19.
 Oil burner. T. H. J. Kelly. No. 1,408,948; Mar. 7.
 Oil burner. J. W. Larimore. No. 1,403,421; Jan. 10.
 Oil burner. A. Larsen. No. 1,403,697; Jan. 17.
 Oil burner. C. H. Lewis. No. 1,429,598; Sept. 19.
 Oil burner. F. R. Macdonald. No. 1,431,746; Oct. 10.
 Oil burner. E. J. G. MacIntyre. No. 1,409,145; Mar. 7.
 Oil burner. W. A. Mays. No. 1,419,070; June 6.
 Oil burner. F. F. Miller. No. 1,429,521; Sept. 19.
 Oil burner. V. H. and J. H. T. Mills. No. 1,409,390; Mar. 14.
 Oil burner. C. W. Mummery. No. 1,434,835; Nov. 7.
 Oil burner. C. W. Mummery. No. 1,439,186; Dec. 19.
 Oil burner. A. T. Newman. No. 1,410,028; Mar. 21.
 Oil burner. F. Olson. No. 1,403,057; Jan. 10.
 Oil burner. T. J. H. Peirce. No. 1,410,112; Mar. 21.
 Oil burner. W. R. Quinn. No. 1,427,910; Sept. 5.
 Oil burner. W. R. Ray. No. 1,406,413; Feb. 14.
 Oil burner. G. F. Raymond. No. 1,403,565; Jan. 17.
 Oil burner. B. A. Reynolds. No. 1,439,760; Dec. 26.
 Oil burner. A. A. Riley. No. 1,423,022; July 18.
 Oil burner. J. G. Robinson and R. A. Thom. No. 1,413,615; Apr. 25.
 Oil burner. W. H. Schreff and R. A. Goudie. No. 1,403,573; Jan. 17.
 Oil burner. J. M. Seymour, Jr. No. 1,416,424; May 16.
 Oil burner. I. M. Sharp. No. 1,433,158; Oct. 24.
 Oil burner. C. Steffel. No. 1,403,986; Jan. 17.
 Oil burner. M. G. Talcott. No. 1,430,937; Sept. 26.
 Oil burner. W. R. Taylor. No. 1,431,061; Oct. 3.
 Oil burner. J. O. Turner. No. 1,439,041; Dec. 19.
 Oil burner. P. W. Trimbourn and F. J. Blum. No. 1,433,434; Oct. 24.
 Oil burner. W. A. Wallace. No. 1,430,044; Sept. 26.
 Oil burner. J. Wilkinson. No. 1,422,907; July 18.
 Oil burner. J. A. Williams. No. 1,435,778; Nov. 14.
 Oil burner. W. Wood. No. 1,431,074; Oct. 3.
 Oil burner, Crude. C. B. Eyer. No. 1,429,857; Sept. 19.
 Oil burner, Domestic. C. Warwick. No. 1,430,131; Sept. 26.
 Oil burner for lighting and heating, Wickless. D. Guelbaum. No. 1,421,215; June 27.
 Oil burner, Gas-generating. J. P. Hillman. No. 1,438,707; Dec. 12.
 Oil burner, Hydrocarbon-. G. F. Allen. No. 1,430,428; Sept. 26.
 Oil burner, Rotary. A. H. Ballard. No. 1,429,554; Sept. 19.
 Oil burner, Rotary. I. M. Sharp. No. 1,433,159; Oct. 24.
 Oil burner, Rotary-vaporizing. F. Womack. No. 1,432,227; Oct. 17.
 Oil burner, Steam-atomizing fuel-. J. McDonald and G. P. Haynes. No. 1,428,896; Sept. 12.
 Oil burner, Wickless. A. J. Blackford. No. 1,423,302; July 18.
 Oil burner, Wickless. C. A. Stockstrom. No. 1,431,054; Oct. 3.
 Oil burners, Draft system for mechanical. E. S. Hough. No. 1,432,334; Oct. 17.
 Oil-burning apparatus. J. A. Bishop. No. 1,420,957; June 27.
 Oil-burning apparatus. A. P. Broomell. No. 1,423,181; July 18.
 Oil-burning apparatus. D. E. Erickson. No. 1,412,023; Apr. 14.
 Oil-burning apparatus. H. W. Manning. No. 1,409,880; Mar. 14.
 Oil-burning apparatus. C. D. Mosher. No. 1,420,208; June 20.
 Oil-burning apparatus. E. L. Woolley. No. 1,428,574; Sept. 12.
 Oil-burning forge. C. C. Hansen. No. 1,415,553; May 9.
 Oil-burning furnace, Crude-. R. Moeller and O. Otterson. No. 1,417,092; May 23.
 Oil-burning-furnace front. J. Reid. No. 1,414,208; Apr. 25.
 Oil-burning-furnace front. T. Service. No. 1,431,763; Oct. 10.
 Oil-burning systems, Automatic control for mechanical. G. S. Blankenhorn. No. 1,430,279; Sept. 26.
 Oil by volatile solvents, Extraction of. A. W. MacIlwaine and G. F. Holdercroft. No. 1,410,822; Mar. 28.
 Oil cakes, Machine for stripping. K. C. Barton. No. 1,430,613; Oct. 3.

Alphabetical list of inventions—Continued.

- Oil casings, Portable apparatus for supporting, cutting off, and rethreading. G. M. Reading. No. 1,437,552; Dec. 5.
- Oil can. A. Benshoof. No. 1,410,878; Mar. 28.
- Oil can. W. A. Chase. No. 1,430,943; Oct. 3.
- Oil can. G. Dutton. No. 1,412,173; Apr. 11.
- Oil can. C. M. Eveleth. No. 1,411,775; Apr. 4.
- Oil can. E. Johanson. No. 1,407,657; Feb. 21.
- Oil can. C. S. Johnston. No. 1,418,576; June 6.
- Oil can. E. H. Noble. No. 1,423,503; July 18.
- Oil can. S. C. Price. No. 1,412,090; Apr. 11.
- Oil can. P. W. Rieck. No. 1,403,197; Jan. 10.
- Oil can. J. M. Rohrer. No. 1,419,988; June 20.
- Oil can. A. A. Van Orsdale. No. 1,411,542; Apr. 4.
- Oil can, Pump. M. Mayer. No. 1,426,586; Aug. 22.
- Oil cans, Support for. G. B. Jones. No. 1,417,327; May 23.
- Oil composition. J. I. O'Banion. No. 1,417,103; May 23.
- Oil containing water, Treating. O. C. Gatrell. No. 1,440,352; Dec. 26.
- Oil control. R. M. Harne. No. 1,433,613; Oct. 31.
- Oil-cracking apparatus. J. B. Edwards. No. 1,410,175; Mar. 21.
- Oil cup. F. J. Baker. No. 1,409,644; Mar. 14.
- Oil cup. L. C. Dutro. Nos. 1,408,180-1; Feb. 28.
- Oil cup. A. K. Fixary. No. 1,410,398; Mar. 21.
- Oil cup. W. J. Frisbie. No. 1,429,418; Sept. 19.
- Oil cup. F. O. Hoagland. No. 1,423,112; July 18.
- Oil cup. H. G. Noble. No. 1,429,448; Sept. 19.
- Oil cup. J. F. Wolfs. No. 1,439,350; Dec. 19.
- Oil cup, Automatic. E. L. Des Jardins. No. 1,404,347; Jan. 24.
- Oil derivative, Mineral. H. T. Maitland. Nos. 1,425,884-5; Aug. 15.
- Oil, Desulphurizing. J. C. Clancy. No. 1,423,710; July 25.
- Oil, Desulphurizing. J. C. Clancy. No. 1,423,712; July 25.
- Oil-discharge jet. H. F. Blackburn and W. J. Cummings. No. 1,412,267; Apr. 11.
- Oil dispenser. J. F. Connelly. No. 1,403,670; Jan. 17.
- Oil dispenser and display device, Lubricating. A. A. Dix. No. 1,412,780; Apr. 11.
- Oil dispenser, Lubricating. A. R. Fenaes and W. H. Kennedy. No. 1,418,142; May 30.
- Oil dispenser, Portable. G. E. Sherwood. No. 1,436,056; Nov. 21.
- Oil-dispensing apparatus, Weather-protected. A. D. Wyckoff. No. 1,428,737; Sept. 12.
- Oil-dispensing bottle, Quantitative. R. Redifer and F. E. Chadd. No. 1,437,197; Nov. 28.
- Oil displaying and dispensing systems, Visible indicating system for. C. W. E. and O. M. Kendall, and W. M. Hancock. No. 1,417,530; May 30.
- Oil-engine-feeding device. F. G. Hobart and C. B. Jahnke. No. 1,411,025; Mar. 28.
- Oil engine, Internal-combustion. K. I. Crossley and W. L. Webb. No. 1,423,088; July 18.
- Oil-feed device, Automatic. W. H. Wix. No. 1,418,046; May 30.
- Oil filter. A. H. Franke. No. 1,402,411; Jan. 3.
- Oil from submarine tanks, Apparatus for preventing escape of. G. Bauer and E. Kramer. No. 1,414,615; May 2.
- Oil, gas, and water separator. L. L. Carter. No. 1,426,955; Aug. 22.
- Oil-gas burner. E. B. Pippinger. No. 1,434,263; Oct. 31.
- Oil-gas burner. L. C. Fraser. No. 1,417,159; May 23.
- Oil gauge. C. D. Eaton. No. 1,413,836; Apr. 25.
- Oil gauge. H. T. Hops. No. 1,430,377; Sept. 26.
- Oil gauge. D. M. Martin. No. 1,434,393; Nov. 7.
- Oil gauge. A. B. Rasmussen. No. 1,407,220; Feb. 21.
- Oil guard. C. W. Francis. No. 1,429,942; Sept. 26.
- Oil guide and dust protector. A. W. Minney. No. 1,405,313; Jan. 31.
- Oil heater. G. W. Coen. No. 1,436,380; Nov. 21.
- Oil heater. W. A. Lacke. No. 1,412,620; Apr. 11.
- Oil heater. B. S. Nelson. No. 1,427,408; Aug. 29.
- Oil in gas making, Using heavy. O. B. Evans and H. G. Terzian. No. 1,418,782; June 6.
- Oil in wells and removing the oil therefrom, Increasing the quality and volume of. E. C. Hallmark. No. 1,415,552; May 9.
- Oil journal lubrication, Free. J. N. Robertson. No. 1,404,651; Jan. 24.
- Oil-level indicator. H. G. Muellerweiss and B. E. Braun. No. 1,407,670; Feb. 21.
- Oil lift. W. C. Cushing. No. 1,402,218; Jan. 3.
- Oil or fat, Apparatus for extracting. J. Arie. No. 1,437,743; Dec. 5.
- Oil, Manufacturing neutral coconut. W. S. Cookson. No. 1,407,930; Feb. 28.
- Oil, Means for burning crude. M. F. Witt. No. 1,429,478; Sept. 19.
- Oil, Mineral. W. N. Blakeman, jr. No. 1,430,882; Oct. 3.
- Oil or gas burner. A. G. Schumann. No. 1,425,343; Aug. 8.
- Oil or gas burner. A. G. Schumann. No. 1,437,201; Nov. 28.
- Oil or grease dispensing device. C. W. Gregory. No. 1,407,997; Feb. 28.
- Oil, Paint. G. I. St. John. No. 1,408,544; Mar. 7.
- Oil paintings, Reproducing. H. P. G. Steedman. No. 1,416,388; May 16.
- Oil pan. G. F. Graves. No. 1,427,377; Aug. 29.
- Oil press. G. A. Sauer. No. 1,422,225; July 11.
- Oil presses, Press mat for. C. H. Fulson. No. 1,414,693; May 2.
- Oil, Process of and apparatus for the distillation of. A. C. Armstrong. No. 1,408,242; Feb. 28.
- Oil product, Vulcanized. W. O. Snelling. No. 1,430,034; Sept. 26.
- Oil projectile. E. R. and O. H. Cramer. No. 1,416,615; May 16.
- Oil-pumping system. J. Oliphant. No. 1,440,357; Dec. 26.
- Oil purifier. F. E. Corwin. No. 1,404,931; Jan. 31.
- Oil purifier. S. L. Marsh. No. 1,438,048; Dec. 5.
- Oil purifier, Centrifugal. M. Leitch. No. 1,415,881; Jan. 31.
- Oil, Purifying and dehydrating transformer. C. H. Hapgood. No. 1,425,645; Aug. 15.
- Oil, Refining. P. T. Sharples. No. 1,416,891; May 23.
- Oil, Refining of petroleum. E. M. Clark. No. 1,413,899; Apr. 25.
- Oil reservoirs, Filler attachment for. F. B. Slater. No. 1,413,878; Apr. 25.
- Oil ring, Dustproof. W. Henry. No. 1,422,972; July 18.
- Oil-salvaging means. D. Aspinall. No. 1,414,611; May 2.
- Oil saver. C. M. Heeter. No. 1,427,811; Sept. 5.
- Oil saver, Tubing. O. A. Kraer. No. 1,433,082; Oct. 24.
- Oil separator. E. J. Beach. No. 1,405,259; Jan. 31.
- Oil separator. J. C. Goosmann. No. 1,408,454; Mar. 7.
- Oil separator. J. C. Pool. No. 1,418,970; June 6.
- Oil shales, Distilling. P. Danckwardt. No. 1,432,191; Oct. 17.
- Oil shales, Working. W. W. Hoover and T. E. Brown. No. 1,422,204; July 11.
- Oil sludges, Separation of petroleum-. S. H. Diggs. No. 1,418,781; June 6.
- Oil-stove burner-adjusting means. A. J. Kieckhefer. No. 1,433,516; Oct. 24.
- Oil strainer and filter, Duplex. C. D. Mosher. No. 1,408,822; Mar. 7.
- Oil switch. G. Cameron. No. 1,427,442; Aug. 29.
- Oil switch. B. Price. No. 1,415,114; May 9.
- Oil, Synthetic apple. F. B. Power and V. K. Chesnut. No. 1,436,290; Nov. 21.
- Oil-tank cleaner. E. Walters. No. 1,437,372; Nov. 28.
- Oil tanks, Deck for. R. R. Bloss. No. 1,404,924; Jan. 31.
- Oil tanks, Deck for. H. R. Leland and W. Schwemlein. Nos. 1,426,997-8; Aug. 22.
- Oil tanks, Floating deck for. H. R. Leland and W. Schwemlein. No. 1,426,999; Aug. 22.
- Oil-testing apparatus. C. A. McIntosh. No. 1,430,310; Sept. 26.
- Oil-testing device. A. D. Eberly. No. 1,437,730; Dec. 5.
- Oil topping plant. B. Gallsworthy. No. 1,428,159; Sept. 5.
- Oil-transfer device. A. D. Stern. No. 1,421,319; June 27.
- Oil, Transmission and motor. W. K. Boileau. No. 1,423,512; July 25.
- Oil trap and heating device. P. D. Barry. No. 1,428,205; Sept. 5.
- Oil, Treating. C. F. Kennedy. No. 1,439,171; Dec. 19.
- Oil, Treating. E. M. Johansen. No. 1,438,764; Dec. 12.
- Oil-treating mixer. M. Belcher. No. 1,417,965; May 30.
- Oil, Treating petroleum. R. Cross. No. 1,423,500; July 18.
- Oil tubes, Method of and means for cleaning and repairing crank-case. E. Allen. No. 1,430,527; Oct. 3.
- Oil well. J. Penrod and R. D. Thompson. No. 1,413,130; Apr. 18.
- Oil well. J. Penrod and R. D. Thompson. No. 1,440,100; Dec. 26.
- Oil-well apparatus, Pitman connection for. E. E. Greve. No. 1,420,033; June 20.
- Oil-well attachment. W. E. Hancock. No. 1,412,863; Apr. 18.
- Oil-well casings, Automatic outlet valve for. C. Moore. No. 1,407,562; Feb. 21.
- Oil-well drill bit. R. J. Brown. No. 1,421,396; July 4.
- Oil-well heater. H. Pennington. No. 1,426,407; Aug. 22.
- Oil-well machinery. J. D. Russ. Nos. 1,409,066-7; Mar. 7.
- Oil-well packer. C. M. Heeter. No. 1,422,704; July 11.
- Oil-well packer. C. M. Heeter. No. 1,423,213; July 18.
- Oil-well pump jack. H. R. and R. M. Willis. No. 1,428,671; Sept. 12.
- Oil-well screen. J. A. Dobson. No. 1,406,825; Feb. 14.
- Oil-well tool. G. F. Heap. No. 1,424,820; Aug. 8.
- Oil wells, Apparatus for removing obstructive deposits in. W. F. Booth. No. 1,414,171; Apr. 25.
- Oil wells, Cleaning. W. F. Muehl. No. 1,410,827; Mar. 28.
- Oil wells, Cleaning device for. W. E. Krause. No. 1,402,504; Jan. 3.
- Oil wells, Coupling device for. P. H. Burlin. No. 1,415,788; May 9.
- Oil wells, Fishing device for. S. Sorensen. No. 1,405,025; Jan. 31.
- Oil wells, Fishing tool for. O. Dhooge. No. 1,405,976; Feb. 7.
- Oil wells, Pumping valve for. E. Schnell. No. 1,405,447; Feb. 7.
- Oil wells, Rotary core drill for. P. C. Hill. No. 1,427,685; Aug. 29.
- Oil wells, Sealing of fluids in boreholes for. C. H. Liedbeck. No. 1,407,873; Feb. 28.
- Oil wells, Tug wheel for. E. M. Smith. No. 1,413,879; Apr. 25.
- Oilier. W. W. Sadler. No. 1,404,481; Jan. 24.
- Oilier, Automatic. C. L. Bubb. (Reissue.) No. 15,267; Jan. 17.
- Oilier, Automatic spring. F. E. Hogarth. No. 1,403,413; Jan. 10.

Alphabetical list of inventions—Continued.

- Oiler, Engine. C. P. Brockway. No. 1,437,927; Dec. 5.
 Oiler, Flange. C. N. Pond. No. 1,435,977; Nov. 21.
 Oiler, Forced-feed. J. H. Montgomery. No. 1,438,163; Dec. 5.
 Oiler for chains, Automatic. C. R. Weiss and C. B. Morrish. No. 1,418,802; June 6.
 Oiler, Harness. R. E. Ogden. No. 1,426,903; Aug. 22.
 Oiler, Harness and leather. A. R. Dooley. No. 1,412,345; Apr. 11.
 Oiler, Spring. J. K. Herford. No. 1,412,743; Apr. 11.
 Oiler, Spring. H. Norris. No. 1,415,263; May 9.
 Oiling device. F. W. Burke and A. J. Breeding. No. 1,423,077; July 18.
 Oiling device. M. Burke. No. 1,428,751; Sept. 12.
 Oiling device. C. W. Dake. No. 1,402,055; Jan. 3.
 Oiling device. W. Gula and M. J. Glogowski. No. 1,402,857; Jan. 10.
 Oiling device. O. G. Halvorsen. No. 1,403,684; Jan. 17.
 Oiling device. W. Y. Headley. No. 1,416,202; May 16.
 Oiling device. W. P. Seng. No. 1,421,583; July 4.
 Oiling device. B. H. Skelly. No. 1,415,124; May 9.
 Oiling device, Automatic hog-. J. W. Taylor and J. W. Osborne. No. 1,438,410; Dec. 12.
 Oiling machine, Floor-. A. Wenger. No. 1,406,123; Feb. 7.
 Oiling system. C. P. Brockway. No. 1,402,281; Jan. 3.
 Oiling system. W. A. Edwards. No. 1,428,017; Sept. 5.
 Oiling the wheels of tramway and like vehicles, Means for mechanically. T. Abbott. No. 1,416,668; May 23.
 Oiling wheel flanges, Mechanism for. J. S. Wheeler. No. 1,410,858; Mar. 28.
 Oilers, Automatic feed control for flange. F. W. Edwards. No. 1,433,449; Oct. 24.
 Oilers, Time-controlling device for automatic flange. C. F. Hooper. No. 1,438,761; Dec. 12.
 Oils and fats, Method of and apparatus for crystallizing. H. H. Doering. No. 1,426,555; Aug. 22.
 Oils and fats, Neutralization of. E. R. Bolton and E. J. Lush. No. 1,419,109; June 6.
 Oils and gases from oil wells, Recovery and refining of light hydrocarbon. J. W. Knox. No. 1,433,956; Oct. 31.
 Oils and revivifying the catalyst, Process and apparatus for catalyzing. E. V. Owen. No. 1,427,626; Aug. 29.
 Oils and the product thereof, Modifying. W. R. Seigle. No. 1,436,362; Nov. 21.
 Oils, Apparatus for burning hydrocarbon. C. E. Chapman. No. 1,419,223; June 13.
 Oils, Apparatus for cracking. W. B. D. Penniman. Nos. 1,429,622-3; Sept. 19.
 Oils, Apparatus for cracking hydrocarbon. F. T. Manley. No. 1,428,338; Sept. 5.
 Oils, etc., Apparatus for feeding and measuring. O. C. Schroeder. No. 1,410,767; Mar. 28.
 Oils, Apparatus for raising and forcing. A., D., and L. Bywater. No. 1,402,835; Jan. 10.
 Oils, Apparatus for separating. A. W. Hille. No. 1,428,590; Sept. 12.
 Oils, Apparatus for treating hydrocarbon. R. B. Day. No. 1,437,933; Dec. 5.
 Oils, Apparatus for the cracking of hydrocarbon. J. Nelson. No. 1,412,540; Apr. 11.
 Oils, Apparatus for the extraction of. H. Engel. No. 1,415,433; May 9.
 Oils, Apparatus for the treatment of petroleum. S. L. Gartlan. No. 1,430,978; Oct. 3.
 Oils, Apparatus for treating mineral. E. V. Stone. No. 1,403,457; Jan. 10.
 Oils, Central circulation dehydrator for petroleum. W. Meredith. No. 1,430,245; Sept. 26.
 Oils, Clarifying and improving the color of petroleum. M. L. Chappell and M. M. Moore. Nos. 1,404,374-5; Jan. 24.
 Oils, Continuous production of low-boiling-point hydrocarbons from petroleum. R. W. Hanna. No. 1,408,698; Mar. 7.
 Oils, Conversion of hydrocarbon. V. L. Emerson. No. 1,414,400; May 2.
 Oils, Converting. A. M. McAfee. No. 1,424,574; Aug. 1.
 Oils, Cracking. R. D. George. No. 1,420,832; June 27.
 Oils, Cracking hydrocarbon. F. T. Manley. No. 1,428,339; Sept. 5.
 Oils, Dehydrating heavy. F. W. Harris. No. 1,410,673; Mar. 28.
 Oils, Desulphurizing petroleum. E. B. Cobb. No. 1,413,005; Apr. 18.
 Oils distilled from crude petroleum, shale oil, and oil obtained from gilsonite or similar hydrocarbon-bearing materials and apparatus therefor, Cracking hydrocarbon. J. L. Murrie. No. 1,435,652; Nov. 14.
 Oils, gums, resins, and like material, Process of and apparatus for treating vaporous and gaseous constituents of fatty. P. W. Webster. No. 1,438,565; Dec. 12.
 Oils, Manufacture of varnish. A. Schwarzman. No. 1,407,952; Feb. 28.
 Oils, Means for purifying and vaporizing. L. Wirtz. No. 1,403,279; Jan. 10.
 Oils, Method and apparatus for dehydrating petroleum. F. W. Harris. No. 1,405,128; Jan. 31.
 Oils, Oil converting process for the conversion and transformation of. J. H. Adams. Nos. 1,428,311-12; Sept. 5.
 Oils, pitch, and the like from shales, coal, wood, etc. W. C. and F. E. Wells. No. 1,433,051; Oct. 24.
 Oils, Process of and apparatus for cracking. G. L. Hoxie. No. 1,418,713; June 6.
 Oils, Producing lubricating. G. D. Harper. No. 1,414,695; May 2.
 Oils, Production of low-boiling-point saturated hydrocarbons from heavy hydrocarbon. A. S. Ramage. No. 1,403,194; Jan. 10.
 Oils, Purification of petroleum. J. J. Hood. Nos. 1,404,293-4; Jan. 24.
 Oils, Purifier for lubricating. E. E. Hans. No. 1,420,837; June 27.
 Oils, Purifying. C. M. Alexander. No. 1,402,733; Jan. 10.
 Oils, Refining. M. Reynolds. No. 1,419,760; June 13.
 Oils, Refining viscous petroleum. R. W. Hanna. No. 1,404,389; Jan. 24.
 Oils, Treating. C. F. Dubbs. No. 1,411,961; Apr. 4.
 Oils, Treating hydrocarbon. D. T. Day. No. 1,411,237; Mar. 28.
 Oils, Treating hydrocarbon. R. B. Day. No. 1,437,932; Dec. 5.
 Oils, Treating hydrocarbon. H. T. Maitland. Nos. 1,425,882-3; Aug. 15.
 Oils, Treating hydrocarbon. A. S. Ramage. No. 1,407,770; Feb. 28.
 Oils, Treatment of hydrocarbon. D. T. Day. No. 1,422,038; July 4.
 Oils, Treatment of petroleum. S. L. Gartlan. No. 1,430,977; Oct. 3.
 Oils under pressure, Cracking. C. Ellis. No. 1,415,232; May 9.
 Oils, Vaporizing device for fuel. R. L. Bowman. No. 1,416,938; May 23.
 Ointment. E. L. Mullins and W. R. Collier. No. 1,411,577; Apr. 4.
 Okra machine. J. N. Economos. No. 1,425,373; Aug. 8.
 Onion from wheat, Method and apparatus for separating. C. A. Whittaker. No. 1,406,127; Feb. 7.
 Onion-topping machine. G. Heber. No. 1,413,224; Apr. 18.
 Opal glass, Composition for. A. L. Duval d'Adrian. No. 1,419,032; June 6.
 Open-hearth furnace. W. H. Sommer. No. 1,407,004; Feb. 21.
 Open-hearth-furnace device. A. Arthur. No. 1,414,451; May 2.
 Opera chair. M. Hardman. No. 1,418,709; June 6.
 Opera chair. S. M. Samter and C. L. Cobb. No. 1,411,747; Apr. 4.
 Operating mechanism. C. W. Lerner. No. 1,408,611; Mar. 7.
 Operating rod. T. N. Bourke. No. 1,438,016; Dec. 5.
 Operating table. G. C. Taplin. No. 1,437,568; Dec. 5.
 Operating tool. G. E. Frisz. No. 1,431,389; Oct. 10.
 Ophthalmic mounting. W. A. Gunning. No. 1,434,889; Nov. 7.
 Ophthalmic mounting. H. E. Kirstein and T. Leytham. No. 1,424,828; Aug. 8.
 Ophthalmic mounting. T. Leytham. No. 1,428,697; Sept. 12.
 Ophthalmic mounting. L. C. Martin. No. 1,431,971; Oct. 17.
 Ophthalmic mounting. W. E. McDonell. No. 1,439,741; Dec. 26.
 Ophthalmic mounting. H. K. Parsons. No. 1,428,393; Sept. 5.
 Ophthalmic mounting. E. L. Schumacher. No. 1,421,729; July 4.
 Ophthalmic mounting. E. L. Schumacher. No. 1,428,914; Sept. 12.
 Ophthalmic mounting. E. L. Schumacher. No. 1,433,851; Oct. 31.
 Ophthalmic mounting. E. L. Schumacher and W. H. Routelle. No. 1,410,274; Mar. 21.
 Ophthalmic mounting. E. L. Schumacher and W. H. Routelle. No. 1,415,612; May 9.
 Ophthalmic mounting. W. S. Searles. No. 1,433,482; Oct. 24.
 Ophthalmic mounting. W. S. Searles. No. 1,437,557; Dec. 5.
 Ophthalmic mounting. F. A. Stevens. (Reissue.) No. 15,425; July 25.
 Ophthalmological instrument. H. L. De Zeng. No. 1,409,680; Mar. 14.
 Ophthalmometers, Accessory for. H. Clement. No. 1,421,173; June 27.
 Optical instrument. H. L. de Zeng. Nos. 1,423,091-2; July 18.
 Optical instrument. H. L. De Zeng. No. 1,431,782; Oct. 10.
 Optical instrument. W. G. Exton. No. 1,433,877; Oct. 31.
 Optical instrument. M. Woolf. No. 1,432,821; Oct. 24.
 Optical projection apparatus. W. R. Mengel. No. 1,434,219; Oct. 31.
 Optical projection apparatus applicable particularly to optical projection lanterns, cinematograph projectors, and the like. P. E. Correll. No. 1,430,404; Sept. 26.
 Optical square. P. Nichterlein. No. 1,430,316; Sept. 26.
 Optical testing apparatus. J. A. Bell. No. 1,402,829; Jan. 10.
 Optician's tool. J. M. Lawlor. No. 1,415,659; May 9.

- Orange clipper. B. Guerrero. No. 1,438,374; Dec. 12.
- Orchard heater. H. D. Keller. No. 1,419,570; June 13.
- Orchard heater. E. Pomeroy. No. 1,435,939; Nov. 21.
- Orchards, Frost preventer for. E. S. Cobb. No. 1,411,564; Apr. 4.
- Ordinance. C. J. Cooke. No. 1,434,044; Oct. 31.
- Ordinance. A. T. Dawson and J. Horne. No. 1,423,757; July 25.
- Ordinance. B. B. Holmes. No. 1,416,827; May 23.
- Ordinance, Ammunition hoisting and loading apparatus for. A. T. Dawson and J. Horne. No. 1,402,400; Jan. 3.
- Ordinance, Ammunition hoisting and loading apparatus for. A. T. Dawson and J. Horne. No. 1,402,402; Jan. 3.
- Ordinance, Ammunition hoisting and loading apparatus for. A. T. Dawson and G. T. Buckham. No. 1,422,678; July 11.
- Ordinance, Ammunition hoisting apparatus for. A. T. Dawson and J. Horne. No. 1,402,401; Jan. 3.
- Ordinance, Ammunition-hoisting apparatus for. A. T. Dawson and J. Horne. No. 1,410,895; Mar. 28.
- Ordinance breech mechanism. A. T. Dawson and G. T. Buckham. No. 1,422,037; July 4.
- Ordinance firing mechanism. A. T. Dawson and G. T. Buckham. No. 1,420,972; June 27.
- Ordinance, High-angle. A. T. Dawson and G. T. Buckham. No. 1,423,404; July 18.
- Ordinance, Recoil apparatus of. A. T. Dawson and G. T. Buckham. No. 1,433,986; Oct. 31.
- Ordinance, Run-out apparatus of. A. T. Dawson and G. T. Buckham. No. 1,437,174; Nov. 28.
- Ordinance, Sighting device for. E. A. Sperry and E. A. Sperry, Jr. No. 1,412,758; Apr. 11.
- Ordinance, Transmitter for distant controlling apparatus for. R. Girardelli. No. 1,410,912; Mar. 28.
- Ore and other materials, Mill or machine for grinding or pulverizing. R. Hush. No. 1,436,590; Nov. 21.
- Ore and rock, Means for crushing and grinding. W. T. MacDonald. No. 1,431,475; Oct. 10.
- Ore before the ore is smelted, Removal of the impurities from tin. A. L. Jennings and J. F. Dolan. No. 1,435,303; Nov. 14.
- Ore briquette. D. B. Jones. No. 1,415,094; May 9.
- Ore classifier. R. P. Akins. No. 1,412,010; Apr. 4.
- Ore classifier. C. Allen. No. 1,429,480; Sept. 19.
- Ore classifier. E. P. Mayhew. No. 1,430,665; Oct. 3.
- Ore-concentrating table. G. A. Overstrom. No. 1,417,682; May 30.
- Ore concentration. L. Bailey. No. 1,418,514; June 6.
- Ore concentration. H. E. Fredrick. No. 1,438,435; Dec. 12.
- Ore concentration. F. Groch. Nos. 1,413,723-4; Apr. 25.
- Ore concentration. D. D. Moffat. No. 1,415,105; May 9.
- Ore concentration. L. F. Vogt. No. 1,429,550; Sept. 19.
- Ore concentrator. J. B. Arthur. No. 1,416,928; May 23.
- Ore concentrator. R. Le Roy. No. 1,421,264; June 27.
- Ore concentrator. W. C. McCoy. No. 1,423,130; July 18.
- Ore crusher, Centrifugal. G. A. Overstrom. No. 1,405,151; Jan. 31.
- Ore-grinding disk. J. T. Hogan. No. 1,435,130; Nov. 7.
- Ore jig. E. M. Daugherty. No. 1,402,303; Jan. 3.
- Ore jig. F. De Mier. No. 1,420,975; June 27.
- Ore leaching. W. Schopper. No. 1,417,947; May 30.
- Ore materials from each other, Apparatus for separating. R. S. Towne and F. B. Flinn. No. 1,410,781; Mar. 28.
- Ore, Method and apparatus for separating. R. V. Smith. No. 1,407,229; Feb. 21.
- Ore mill. H. T. Wiley. No. 1,404,560; Jan. 24.
- Ore products, Apparatus for separating the liquid and solid components of mixtures of liquids and crushed or ground. A. J. Arbuckle. No. 1,422,514; July 11.
- Ore-separating device. W. S. Brown. No. 1,423,751; July 25.
- Ore separator. A. H. Connors. No. 1,407,258; Feb. 21.
- Ore separator. E. R. Brown. No. 1,422,736; July 11.
- Ore separator, Continuous-operating. E. B. Hoover. No. 1,438,708; Dec. 12.
- Ore stamp mill. J. W. Van Meter. No. 1,405,467; Feb. 7.
- Ore, Treating. M. K. Coddington. No. 1,402,740; Jan. 10.
- Ore-treating furnace. C. C. Grimes. No. 1,430,445; Sept. 26.
- Ore treatment. E. W. Wescott. No. 1,406,595; Feb. 14.
- Ore-washing device. A. McDougall. No. 1,409,385; Mar. 14.
- Ores and also forming potassium alum from such ores, Extracting lithium and potassium from lithium-potassium. G. E. Bailey and A. E. Sedgwick. No. 1,430,877; Oct. 3.
- Ores and metallurgical products, Recovery of lead and silver from. H. Hey. No. 1,432,858; Oct. 24.
- Ores and metallurgical products, Recovery of lead and silver from sulphide. D. Avery. No. 1,402,732; Jan. 10.
- Ores and metallurgical products, Recovery of lead and silver from sulphide. H. Hey. No. 1,432,859; Oct. 24.
- Ores and other materials, Furnace for the smelting of. U. A. Garred. No. 1,439,957; Dec. 26.
- Ores and producing a combustible gas, Desulphurizing. H. Batchelor. No. 1,403,285; Jan. 10.
- Ores and producing same, Composition and substance for use in concentration of. A. Schwarz. No. 1,427,232; Aug. 29.
- Ores and product resulting therefrom, Treating nickel. L. P. Burrows. No. 1,424,711; Aug. 1.
- Ores and zinc products, Treating zinc. N. C. Christensen. No. 1,415,797; May 9.
- Ores, Apparatus for concentrating. A. F. Hilleke. No. 1,434,886; Nov. 7.
- Ores, Apparatus for grinding, classifying, and decanting ores. J. R. Broadley. No. 1,418,523; June 6.
- Ores, Apparatus for roasting and sintering. A. S. Dwight. Nos. 1,433,354-5; Oct. 24.
- Ores by flotation, Apparatus for the separation of. H. C. and E. A. Colburn. No. 1,415,314; May 9.
- Ores by flotation, Concentration of. G. E. Sheridan and G. G. Griswold, Jr. No. 1,421,585; July 4.
- Ores by volatilization, Treating. H. R. Layng. No. 1,427,765; Aug. 29.
- Ores, Composition of matter for extracting and removing mercury from sulphide. M. K. Coddington. No. 1,402,741; Jan. 10.
- Ores, Concentrating. R. Luckenbach. No. 1,417,261; May 23.
- Ores, Concentration of. R. Luckenbach. Nos. 1,417,262-3; May 23.
- Ores, Concentration of. G. E. Sheridan and G. G. Griswold, Jr. No. 1,427,235; Aug. 29.
- Ores containing galena, Treating. N. C. Christensen. No. 1,434,087; Oct. 31.
- Ores, containing oxides of copper, Treatment of. E. B. Thornhill. No. 1,407,045; Feb. 21.
- Ores containing oxidized copper compounds, Treatment of. H. L. Sulman. T. J. Taplin, Jr. W. G. Perkins, and H. F. K. Picard. No. 1,440,186; Dec. 26.
- Ores containing zinc, cadmium, and copper, Electrolytic treatment of. D. Avery, R. H. Stevens, and R. T. D. Williams. No. 1,426,703; Aug. 22.
- Ores, Extracting values from. W. A. Schlesinger. No. 1,435,180; Nov. 14.
- Ores, Flotation process of concentrating sulphide. H. E. J. Fredrick. No. 1,438,436; Dec. 12.
- Ores, Jigs for concentrating. J. R. Combs. No. 1,415,428; May 9.
- Ores, Method of and apparatus for smelting. V. Pazos y Sacio. No. 1,419,764; June 13.
- Ores of the precious metals, Cyanide process of treating. D. L. H. Forbes. No. 1,430,635; Oct. 3.
- Ores of the precious metals, Treating manganiferous. M. F. Fairlie and J. J. Denny. No. 1,417,153; May 23.
- Ores of vanadium, Treatment of. A. Gildemeister. No. 1,415,028; May 9.
- Ores of zinc, Treating sulphide. N. C. Christensen. No. 1,434,084; Oct. 31.
- Ores of zinc, Treating sulphide. N. C. Christensen. No. 1,434,086; Oct. 31.
- Ores of zinc, Treating sulphide. N. C. Christensen. No. 1,435,699; Nov. 14.
- Ores or concentrates, Treatment of zinciferous. J. H. and P. M. Gillies. No. 1,434,693; Nov. 7.
- Ores or residues, Treating silver-bearing. P. R. Middleton. No. 1,403,516; Jan. 17.
- Ores or the like, Roasting complex zinc sulphide. F. W. Harbord. No. 1,422,701; July 11.
- Ores, Process and apparatus for electric smelting of. E. H. Rotherf. No. 1,440,106; Dec. 26.
- Ores, Process of and apparatus for recovering metals from. J. Allingham. No. 1,403,463; Jan. 10.
- Ores, Recovering metals from. E. S. Leaver and C. E. van Barneveld. No. 1,410,936; Mar. 28.
- Ores, Reducing. E. C. King. No. 1,425,386; Aug. 8.
- Ores, Reducing. A. Stansfield. No. 1,403,576; Jan. 17.
- Ores, Reducing lead. E. H. Hamilton. No. 1,404,714; Jan. 24.
- Ores, Reduction of. W. E. F. Bradley. No. 1,407,372; Feb. 21.
- Ores to sinter them, Apparatus for treating. A. S. Dwight. No. 1,433,349; Oct. 24.
- Ores to sinter them, Apparatus for treating. A. S. Dwight. No. 1,433,352; Oct. 24.
- Ores to sinter them, Apparatus for treating. A. S. Dwight. No. 1,433,355; Oct. 24.
- Ores to sinter them, Treating. A. S. Dwight. No. 1,433,348; Oct. 24.
- Ores to sinter them, Treating. A. S. Dwight. No. 1,433,351; Oct. 24.
- Ores to sinter them, Treating. A. S. Dwight. No. 1,433,353; Oct. 24.
- Ores, Treating. E. W. Wescott. No. 1,406,597; Feb. 14.
- Ores, Treating lead-zinc sulphide. N. C. Christensen. No. 1,415,796; May 9.
- Ores, Treating lead-zinc sulphide. N. C. Christensen. No. 1,434,088; Oct. 31.
- Ores, Treating lead-zinc sulphide. N. C. Christensen. No. 1,435,891; Nov. 14.
- Ores, Treating molybdenum. A. Kiscock. No. 1,403,035; Jan. 10.
- Ores, Treating sulphide. C. J. Reed. No. 1,415,897; May 16.
- Ores, Treating tin-bearing tungsten. F. M. Becket. No. 1,431,559; Oct. 10.
- Ores, Treatment of gold and silver. A. Dorfman. No. 1,411,326; Apr. 4.
- Ores, Treatment of zirconium. O. Hutchins. No. 1,427,816; Sept. 5.
- Ores with chloride solutions, Treating. N. C. Christensen. No. 1,434,085; Oct. 31.

Alphabetical list of inventions—Continued.

- Organ action, Electropneumatic. B. G. Austin. No. 1,427,997; Sept. 5.
- Organ keyboard for tuning, Auxiliary. J. E. Smith. No. 1,434,568; Nov. 7.
- Organ player, Pneumatic. C. Meier. No. 1,405,932; Feb. 7.
- Organ-stop action, Combination. E. Louis. No. 1,416,367; May 16.
- Organ swell, Reed-. A. G. Lundquist and K. J. A. Johnson. No. 1,415,665; May 9.
- Organs are submitted when working, Apparatus for measuring the value of the efforts of the deformations to which. L. R. W. Boulasier. No. 1,425,506; Aug. 15.
- Organs, Tremolo action for. G. W. Till. No. 1,439,652; Dec. 19.
- Organs, Valve action for. L. J. Wick. No. 1,403,930; Jan. 17.
- Organs, Wind chest and valve action for. J. Topp. No. 1,419,703; June 13.
- Organic and inorganic substances, Treating. J. N. Alsop. Nos. 1,402,203-4; Jan. 3.
- Organic composition. C. W. Crockett. No. 1,437,170; Nov. 28.
- Organic compound, Chlorinating. H. H. Dow. No. 1,437,636; Dec. 5.
- Organisms, Process and apparatus for destroying. D. Crowther. No. 1,413,006; Apr. 18.
- Ornament holder. K. E. Orstedt. No. 1,410,075; Mar. 21.
- Ornamental article of manufacture. E. Klapp. No. 1,431,465; Oct. 10.
- Ornamental articles, Producing. R. W. Schmidt. No. 1,403,268; Jan. 10.
- Ornamental finish, Making. J. Mrazek. No. 1,436,666; Nov. 28.
- Ornamental surfaces, Producing. M. E. Gates. No. 1,427,454; Aug. 29.
- Ornamenting device and method. H. C. Mitchell. No. 1,422,599; July 11.
- Ornamenting process and apparatus. H. G. Antaramian. No. 1,431,917; Oct. 17.
- Orthocresol, Plastic condensation product from. L. H. Baekeland. No. 1,401,953; Jan. 3.
- Orthodontic appliances, Lock for. F. Maeulen and G. L. Van Allen. No. 1,429,749; Sept. 19.
- Orthopedic device or apparatus. J. E. Cameron. No. 1,418,283; June 6.
- Oscillation generator. H. Jorgenson. No. 1,402,235; Jan. 3.
- Oscillation generator. E. O. Scriven. No. 1,418,739; June 6.
- Oscillations, Method of and means for modulating carrier. J. R. Carson. No. 1,410,890; Mar. 28.
- Oscillator. A. L. Golden. No. 1,431,393; Oct. 10.
- Oscillation. L. de Forest. No. 1,437,498; Dec. 5.
- Osssein for the production of gelatin, Treatment of. C. Collard. No. 1,431,217; Oct. 10.
- Outage gauge. C. F. Ehrentraut. No. 1,417,892; May 30.
- Outgauge. E. Schmitt. No. 1,423,156; July 18.
- Outlet box. W. H. Wood. (Reissue.) No. 15,504; Dec. 5.
- Oven. H. E. Coons. No. 1,403,012; Jan. 10.
- Oven. M. Froehlich. No. 1,426,059; Aug. 15.
- Oven. A. Gussa. No. 1,429,870; Sept. 19.
- Oven. P. Mustonen. No. 1,417,404; May 23.
- Oven. A. Neitro. No. 1,434,792; Nov. 7.
- Oven. H. C. Taylor. No. 1,428,867; Sept. 12.
- Oven. J. C. Woodson. No. 1,428,870; Sept. 12.
- Oven and carrying case, Collapsible. W. Olsen. No. 1,404,814; Jan. 24.
- Oven attachment, Fire-gate. A. Nelson and O. H. Hindard. No. 1,424,584; Aug. 1.
- Oven, Bake. R. P. Bolling. No. 1,433,598; Oct. 31.
- Oven, Bake. H. F. Sommer. No. 1,425,709; Aug. 15.
- Oven, Baker's. J. M. Gantvoort. No. 1,410,466; Mar. 21.
- Oven, Baker's. F. Kührtz. No. 1,408,360; Feb. 28.
- Oven, Baker's. G. Mueller. No. 1,413,867; Apr. 25.
- Oven, Baker's. W. F. Petersen. No. 1,435,975; Nov. 21.
- Oven, Baker's. W. F. Schaller. No. 1,425,342; Aug. 8.
- Oven, Baker's. W. F. Schaller. No. 1,428,063; Sept. 5.
- Oven, Baker's. W. Zienssen. No. 1,414,717; May 2.
- Oven, Baking. E. Katzinger. No. 1,439,898; Dec. 26.
- Oven, Baking. D. R. Meek. No. 1,408,220; Feb. 28.
- Oven burner. F. G. Nicolaus. No. 1,416,500; May 16.
- Oven burners, Safety lock for. E. P. Cole. No. 1,405,186; Jan. 31.
- Oven, Camp. E. B. Prettyman. No. 1,433,845; Oct. 31.
- Oven charges. B. B. Kahn. No. 1,416,034; May 16.
- Oven, Coke. A. Roberts. No. 1,411,224; Mar. 28.
- Oven, Coking retort. J. Van Ackeren. No. 1,402,272; Jan. 3.
- Oven, Coking retort. J. van Ackeren. No. 1,410,784; Mar. 28.
- Oven, Combination coal and gas. H. Lange. No. 1,429,890; Sept. 19.
- Oven, Combined proving and baking. H. Hilenbrant. No. 1,420,102; June 20.
- Oven door. F. E. White. No. 1,436,070; Nov. 21.
- Oven door and doorway, Drying. A. Maehler. No. 1,418,594; June 6.
- Oven door, Coke-. T. G. Kus. No. 1,412,247; Apr. 11.
- Oven-door latch. S. McClure. No. 1,413,990; Apr. 25.
- Oven-door-lifting machine, Coke-. J. Becker. No. 1,411,262; Apr. 4.
- Oven doors, Means for counterbalancing. E. P. Cole. No. 1,405,290; Jan. 31.
- Oven, Electric. J. O. González. No. 1,404,361; Jan. 24.
- Oven, Electric. A. E. Grapp. No. 1,406,872; Feb. 14.
- Oven, Electric. J. D. Haynsworth. No. 1,422,857; July 18.
- Oven, Electric. F. W. Moffat. No. 1,438,253; Dec. 12.
- Oven, Electric. E. Terry. No. 1,403,136; Jan. 10.
- Oven, Electric bake. J. C. Woodson. No. 1,425,620; Aug. 15.
- Oven elements, Forming cooking-. S. and H. J. Sauvage. No. 1,403,642; Jan. 17.
- Oven for baking plates. J. A. Carey. No. 1,432,838; Oct. 24.
- Oven for drying plates. J. A. Carey. No. 1,432,839; Oct. 24.
- Oven for toasting cereal foods. P. W. Foster. No. 1,419,131; June 13.
- Oven for vulcanizing, baking, and other uses. K. L. Emmons. No. 1,420,371; June 20.
- Oven-heat-control device. E. L. and W. E. Claus. No. 1,433,179; Oct. 24.
- Oven-heat regulator. B. E. Meacham. No. 1,421,281; June 27.
- Oven-loading device. A. Beckett. No. 1,429,559; Sept. 19.
- Oven, Multiple-chamber. I. King. No. 1,439,172; Dec. 19.
- Oven or kiln. J. H. Marlow. No. 1,434,717; Nov. 7.
- Oven, Regenerative coke. J. E. Hubbell. No. 1,402,770; Jan. 10.
- Oven, Rotary bake. J. B. MacDonald. No. 1,403,796; Jan. 17.
- Oven, Single-chamber. I. King. No. 1,433,893; Oct. 31.
- Oven structure, Coke-. J. Becker. No. 1,404,336; Jan. 24.
- Oven tray or carriage, Wheeled. G. Mueller. No. 1,420,567; June 20.
- Oven truck. G. Mueller. No. 1,417,096; May 23.
- Oven-wall structure. P. Plantings. No. 1,430,027; Sept. 26.
- Oven, Wire-heating. C. E. Jackson. No. 1,440,153; Dec. 26.
- Ovens, Air-circulating system for industrial. W. C. Ehmka. No. 1,421,429; July 4.
- Ovens, Bottle-feeding mechanism for annealing. W. Stender. No. 1,419,324; June 13.
- Ovens, Burner for gas-stove. C. McKee. No. 1,404,783; Jan. 31.
- Ovens, Collecting main for by-product coke. W. H. Pavitt, Jr. No. 1,414,524; May 2.
- Ovens, Gas burner for coal. H. Lange. No. 1,425,985; Aug. 15.
- Ovens, Utensil-handling device for bake. R. Haas. No. 1,423,320; July 18.
- Overalls. C. S. Allen. No. 1,410,541; Mar. 28.
- Overalls. S. Berkowitz. No. 1,418,124; May 30.
- Overalls. C. Kroll. No. 1,411,666; Apr. 4.
- Overalls. P. W. Sheen. No. 1,402,320; Jan. 3.
- Overalls. S. W. Sullivan. No. 1,434,510; Nov. 7.
- Overalls. A. A. L. Winderman and R. Rachmil. No. 1,424,388; Aug. 1.
- Overalls, Union. I. Bernstein. No. 1,426,540; Aug. 22.
- Overflow alarm. H. Gessler. No. 1,434,112; Oct. 31.
- Overhead carrier. L. S. Hudson. No. 1,415,448; May 9.
- Overhead carrier systems, Carrier for. E. T. Bennington. No. 1,412,831; Apr. 18.
- Overhead carrier systems, Rail-supporting clamp for. E. T. Bennington. No. 1,412,830; Apr. 18.
- Overhead construction, System of. M. W. Manz. No. 1,401,998; Jan. 3.
- Overhead switch. H. J. Ferris. No. 1,403,853; Jan. 17.
- Overhead switch. C. C. Lake. No. 1,404,177; Jan. 17.
- Overhead trackway system. E. T. Bennington. No. 1,412,829; Apr. 18.
- Overhead-wire transport system. W. L. Barton. No. 1,422,650; July 11.
- Overload protective device. E. W. Seeger. No. 1,413,239; Apr. 18.
- Overload, Push button for automatic. A. Parker. No. 1,413,679; Apr. 25.
- Overload switch. H. Willmann. No. 1,403,217; Jan. 10.
- Overshoe, Heelless. M. V. Wilde. No. 1,425,731; Aug. 15.
- Overshoe retainer. E. E. Mullinix. No. 1,409,060; Mar. 7.
- Overshoes on shoes, Device for retaining. F. Ordakowski. No. 1,432,780; Oct. 24.
- Overstitch mechanism. J. P. Weis. No. 1,419,088; June 6.
- Over switch, Change-. E. Puxon. No. 1,435,255; Nov. 14.
- Overtire. L. D. Walker. No. 1,429,659; Sept. 19.
- Oxalate, Manufacture of. H. W. Paulus. No. 1,420,213; June 20.
- Oxide and producing the same, Article of fused metallic. A. L. D. d'Adrian. No. 1,430,724; Oct. 3.
- Oxide, Briquetting iron. W. Mathesius. No. 1,403,437; Jan. 10.
- Oxide, Making green chrome. A. L. Duval d'Adrian. No. 1,429,912; Sept. 19.
- Oxide of zinc, Method and means of producing. J. Thomson. Nos. 1,425,917-18; Aug. 15.
- Oxide products, Producing composite titanic-. L. E. Barton. No. 1,409,648; Mar. 14.
- Oxides, Obtaining volatilizable material. F. D. S. Robertson. No. 1,426,602; Aug. 22.
- Oxides of nitrogen from ammonia by catalytic oxidation, Production of. C. Bosch. No. 1,426,952; Aug. 22.

Alphabetical list of inventions—Continued.

- Oxides of nitrogen in sulphuric-acid manufacture, Recovery of. A. M. Fairlie. No. 1,420,477; June 20.
- Oxidizing agent, Presenting the hydrocarbon in the form of a thin film of large surface area to the action of an. E. Gevers-Orban. No. 1,404,435; Jan. 24.
- Oxidizing olefines, etc. C. Ellis. No. 1,418,368; June 6.
- Oxyacetylene lighter. N. G. Lavigne. No. 1,416,845; May 23.
- Oxyaldehyde, Manufacturer of aromatic. F. Bidaud. No. 1,418,904; June 6.
- α -oxyaryl-substituted β -aminoethanes and making same. O. Hinsberg. No. 1,432,281; Oct. 17.
- Oxychloride, Making phosphorous. T. L. Bartleson. No. 1,424,193; Aug. 1.
- Oxygen, Controlling apparatus for delivering. T. C. Prouty. No. 1,407,575; Feb. 21.
- Oxysalt composition. C. Catlett. No. 1,422,337; July 11.
- Oyster-opening machine. A. P. Mandvill. No. 1,439,181; Dec. 19.
- Ozone, Apparatus for producing. H. E. Ellis. No. 1,417,046; May 23.
- Ozone compounds, Apparatus for and process of preparing. A. J. Molsant. No. 1,406,058; Feb. 7.
- Ozone generator. J. Fitzpatrick. No. 1,403,759; Jan. 17.
- Ozone generator. H. B. Hartman. No. 1,423,658; July 25.
- Ozone generator. H. B. Hartman. No. 1,436,251; Nov. 21.
- Ozone generator. H. B. Hartman. No. 1,437,302; Nov. 28.
- Ozone generator. E. L. Joseph. No. 1,431,957; Oct. 17.
- Ozone machine. A. P. Haase. No. 1,403,025; Jan. 10.
- Ozonizing fluids, Apparatus for. S. Held. No. 1,420,838; June 27.
- P-cymol, Manufacture of. G. Stalman. No. 1,433,666; Oct. 31.
- Package. E. H. Angier. No. 1,432,010; Oct. 17.
- Package. G. J. Lovell. No. 1,413,412; Apr. 18.
- Package. L. L. Salfisberg. No. 1,413,064; Apr. 18.
- Package. R. Speidel. No. 1,406,098; Feb. 7.
- Package blank and package. J. H. Greenstreet. No. 1,422,966; July 18.
- Package closures, Tag attachment for. M. Cohen. No. 1,405,289; Jan. 31.
- Package, Collapsible-tube. F. L. Dyer. No. 1,413,108; Apr. 18.
- Package, Combined shipping and dispensing. J. Q. Stephens. No. 1,429,701; Sept. 19.
- Package-handling and label-preparing mechanism. J. C. Thom. No. 1,414,678; May 2.
- Package holder. G. F. Discher. No. 1,411,004; Mar. 28.
- Package seal. J. S. McChesney. No. 1,408,897; Mar. 7.
- Package tie. W. H. Duvarney. No. 1,414,868; May 2.
- Package tie. J. L. Kolbe. No. 1,418,938; June 6.
- Package tie. C. O. Stockman. No. 1,414,599; May 2.
- Package tie. G. W. Stout. No. 1,405,459; Feb. 7.
- Package tie. G. W. Stout. No. 1,418,743; June 6.
- Package-tie fastener. J. A. Thiemann. No. 1,432,808; Oct. 24.
- Packaging. J. Peterson. No. 1,414,706; May 2.
- Packaging apparatus. W. V. Derby. No. 1,418,631; June 6.
- Packaging apparatus. F. L. Lloyd. No. 1,417,536; May 30.
- Packaging apparatus. S. W. Taylor. No. 1,434,415; Nov. 7.
- Packaging, Apparatus for grouping commodity-containing units for. M. Fogde and L. P. Southwick. No. 1,402,223; Jan. 3.
- Packaging articles. H. Mock. No. 1,434,397; Nov. 7.
- Packaging equipment, Automatic. E. B. Elder. No. 1,421,925; July 4.
- Packaging machine. E. D. Anderson and C. Beckmann. No. 1,409,211; Mar. 14.
- Packaging machine. E. D. Anderson and C. Beckmann. No. 1,412,227; Apr. 11.
- Packaging machine. M. O. Anthony. No. 1,412,098; Apr. 11.
- Packaging machine. C. Beckmann. No. 1,406,165; Feb. 14.
- Packaging machine. E. P. Dorman. Nos. 1,434,375-6; Nov. 7.
- Packaging machine. J. D. Lane and J. Macnaughtan. No. 1,439,966; Dec. 26.
- Packaging roofing, Machine for. J. L. Hildebrand and H. H. Wanders. No. 1,435,298; Nov. 14.
- Packages, Apparatus for producing sealed wrapped. W. A. Weightman and C. H. Nitsch. No. 1,426,429; Aug. 22.
- Packages, Forming a metallic crossstying of. F. Hoffmann. No. 1,431,800; Oct. 10.
- Packages, Making and sealing. J. G. Jones. No. 1,415,038; May 9.
- Packet, First-aid. O. C. Schulz. No. 1,436,406; Nov. 21.
- Packet or carton. A. W. Graham. No. 1,414,944; May 2.
- Packing. F. Hodekinson. No. 1,419,927; June 20.
- Packing. F. N. Mason. No. 1,402,943; Jan. 10.
- Packing. F. N. Mason. No. 1,404,780; Jan. 31.
- Packing. W. P. Newkirk. No. 1,437,262; Nov. 28.
- Packing. H. F. Schmidt. No. 1,425,548; Aug. 15.
- Packing. S. A. Smith. No. 1,411,197; Mar. 28.
- Packing and boxing machine. S. Palmowski. No. 1,406,219; Feb. 14.
- Packing and boxing machine, Sugar. J. D. Spreckels, jr., and R. Laborda. No. 1,439,983; Dec. 26.
- Packing and display box. J. A. McWilliams. No. 1,413,677; Apr. 25.
- Packing case. H. H. Read. No. 1,427,633; Aug. 29.
- Packing case. H. H. Read. No. 1,414,896; May 2.
- Packing case. H. L. Zimmerman. No. 1,433,169; Oct. 24.
- Packing cases and the like, Nail for. F. Molesworth. No. 1,428,111; Sept. 5.
- Packing cases, Binder for. C. D. Otto. No. 1,432,203; Oct. 17.
- Packing connection. R. R. Crocker. No. 1,411,205; Mar. 28.
- Packing engine. J. A. Cann and J. Burrows. No. 1,426,459; Aug. 22.
- Packing for fragile articles. M. Koppelman and S. Cooper. No. 1,429,207; Sept. 12.
- Packing for glands, stuffing boxes, and the like. F. G. Denton and M. Angus. No. 1,421,356; June 27.
- Packing for hydraulic door checks, Rod. L. C. Norton. No. 1,438,546; Dec. 12.
- Packing for hydraulic jacks. G. W. Berry. No. 1,424,233; Aug. 1.
- Packing for mercury dashpots. W. Edwards. No. 1,421,767; July 4.
- Packing, Fuse-terminal. A. L. Eustice. No. 1,436,797; Nov. 28.
- Packing gland. L. B. Joyner. No. 1,404,299; Jan. 24.
- Packing gland. A. E. Osborn. No. 1,416,232; May 16.
- Packing goods, Machine for. E. D. Anderson and C. Beckmann. No. 1,412,226; Apr. 11.
- Packing head, Automatic expandible. R. C. Sharp. No. 1,427,647; Aug. 29.
- Packing heads, Expandible. R. C. Sharp. No. 1,427,648; Aug. 29.
- Packing, Journal. C. A. Gelin. No. 1,423,207; July 18.
- Packing machine for cutting slab. W. J. Kent. No. 1,419,144; June 13.
- Packing, Making metal. R. F. Sproessig. No. 1,435,563; Nov. 14.
- Packing, Metallic. A. D. Morris. No. 1,426,493; Aug. 22.
- Packing, Metallic. F. E. Payne. No. 1,428,976; Sept. 12.
- Packing, Metallic. E. Wilson. No. 1,415,078; May 9.
- Packing, Metallic rod. S. S. Kurtz, jr. No. 1,424,655; Aug. 1.
- Packing, Piston. F. E. Small. No. 1,426,783; Aug. 22.
- Packing ring. A. O. Girard. No. 1,437,646; Dec. 5.
- Packing ring. E. R. Norman. No. 1,428,654; Sept. 12.
- Packing ring. T. H. Lackman. No. 1,413,409; Apr. 18.
- Packing ring. C. Latta. No. 1,418,582; June 6.
- Packing ring. F. Ray. No. 1,424,377; Aug. 1.
- Packing ring. F. E. Small. No. 1,437,563; Dec. 5.
- Packing ring for rotating bodies. C. A. Parsons and S. S. Cook. No. 1,428,975; Sept. 12.
- Packing rings into segments, Machine for sawing integrally-cast. R. A. Light and J. W. Price, Jr. No. 1,413,668; Apr. 25.
- Packing-service apparatus. M. A. Kuhn and F. Stebler. No. 1,439,825; Dec. 26.
- Packing structures, Reinforcement for cellular. E. K. Lundy, jr. No. 1,439,179; Dec. 19.
- Pad: See—
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| Asbestos ironing pad. | Recoil pad. |
| Brush pad. | Resilient stamp pad. |
| Combination desk pad. | Rubber knee pad. |
| Desk pad. | Seat pad. |
| Electric heating pad. | Shoe-sole pad. |
| Horseshoe pad. | Spring pad. |
| Knee pad. | Table pad. |
| Massage pad. | Truss pad. |
| Memorandum pad. | Typewriter pad. |
| Pedal pad. | |
- Pad holder and ticket punch, Combined. C. T. Raschick. (Reissue.) No. 15,270; Jan. 17.
- Pads, Attachment for check. R. C. Cauthorn. No. 1,402,398; Jan. 3.
- Pads, books, etc., Detachable cover for. O. Loewenbach. No. 1,415,591; May 9.
- Paddle wheel, Self-dumping. W. H. Smith. No. 1,409,036; Mar. 7.
- Padlock. F. P. Chernovetz. No. 1,411,682; Apr. 4.
- Padlock. E. A. Christoph. No. 1,419,358; June 13.
- Padlock. J. A. P. De Guise. No. 1,432,677; Oct. 17.
- Padlock. M. Hacklander. No. 1,407,267; Feb. 21.
- Padlock. J. Kaczanowski. No. 1,429,883; Sept. 19.
- Padlock. K. Lochina. No. 1,406,567; Feb. 14.
- Padlock. S. Segal. No. 1,439,131; Dec. 19.
- Padlock. K. Wieser. No. 1,410,148; Mar. 21.
- Padlock. S. Wiloch. No. 1,424,543; Aug. 1.
- Padlock, Combination. F. Gambino. No. 1,426,978; Aug. 22.
- Padlock mechanism. E. A. Christoph. No. 1,419,359; June 13.
- Padlock, Permutation. F. A. Durbin. No. 1,423,840; July 25.
- Padlock, Permutation. P. J. Fonos. No. 1,415,327; May 9.
- Padlock, Permutation. H. O. Nielsen. No. 1,408,771; Mar. 7.
- Padlock, Permutation. D. W. Rohrer. No. 1,434,315; Oct. 31.
- Padlock protector. A. W. Rudy. No. 1,429,105; Sept. 12.
- Padlock, Safety. W. Reichstein. No. 1,420,578; June 20.
- Pail. C. P. Rockwood. No. 1,406,284; Feb. 14.
- Pail. P. Strange. No. 1,433,918; Oct. 31.

Alphabetical list of inventions—Continued.

- Pail and stool, Combined milk. G. L. Rollins. No. 1,426,508; Aug. 22.
- Pail, Dinner. N. J. Purdin. No. 1,434,149; Oct. 31.
- Pail holder. E. T. Abendroth. No. 1,429,917; Sept. 26.
- Pail, Lunch. A. Raich. No. 1,434,314; Oct. 31.
- Pail, Milk. G. C. Coolidge. No. 1,428,475; Sept. 5.
- Pail, Mop-wringer. C. E. Burke and G. R. Beckwith. No. 1,407,122; Feb. 21.
- Pail, Scrubbing. G. Bryan. No. 1,428,528; Sept. 12.
- Pail tops, Hand tool for fastening steel. S. M. Johnson. No. 1,435,853; Nov. 14.
- Pails, Cover fastener for shipping. J. C. Andresen. No. 1,425,311; Aug. 8.
- Pails, Machine for applying ears to. W. Spain. No. 1,423,693; July 25.
- Pails, receptacles, etc., Forming fibrous pulp. A. W. Handford. No. 1,407,409; Feb. 21.
- Paint. A. C. Holzapfel. No. 1,422,711; July 11.
- Paint. R. S. Lipscomb. No. 1,434,901; Nov. 7.
- Paint. N. N. Rankow. No. 1,436,356; Nov. 21.
- Paint. J. H. Young. No. 1,410,790; Mar. 28.
- Paint and making same. C. A. Ward. No. 1,421,625; July 4.
- Paint and making same, Cold-water. F. Bell. No. 1,438,627; Dec. 12.
- Paint and making same, Insulating and anticorrosive. C. Appleton and F. McRea. No. 1,430,142; Sept. 26.
- Paint and varnish remover. C. Ellis. No. 1,406,175; Feb. 14.
- Paintbrush. F. Joerger and H. Shulman. No. 1,431,810; Oct. 10.
- Paintbrush, Fountain. S. Grzebinski. No. 1,425,959; Aug. 15.
- Paintbrush, Nailless. H. Shulman and F. Joerger. No. 1,436,916; Nov. 28.
- Paint composition. W. N. Blakeman, Jr. No. 1,423,390; July 18.
- Paint composition. W. N. Blakeman, Jr. No. 1,430,881; Oct. 3.
- Paint composition. H. L. Haessly and A. Posler. No. 1,410,293; Mar. 21.
- Paint composition. K. B. Lamb. No. 1,424,414; Aug. 1.
- Paint composition. J. B. McCartney. No. 1,421,970; July 4.
- Paint composition. J. F. Steenmeyer. No. 1,414,597; May 2.
- Paint, Composition for. H. C. Kishpaugh. No. 1,407,662; Feb. 21.
- Paint, Composition for. H. C. Kishpaugh. No. 1,417,842; May 30.
- Paint, Composition for aluminum. J. G. Shilnoek. No. 1,411,673; Apr. 4.
- Paint, Composition of matter for fire and water proof. A. H. Mikesell. No. 1,415,380; May 9.
- Paint for and method of preventing heated surfaces from rusting. J. H. Gravell. No. 1,428,086; Sept. 5.
- Paint formula. S. A. McCune. No. 1,411,971; Apr. 4.
- Paint for vehicles, Stoving. H. J. Dykman. No. 1,428,152; Sept. 5.
- Paint mixing or smoothing machine, Centrifugal. D. W. Black. No. 1,436,692; Nov. 28.
- Paint package. J. W. Hasburg. Nos. 1,427,288-90; Aug. 29.
- Paint paste. C. Gerber. No. 1,405,109; Jan. 31.
- Paint pigment. L. Baker. No. 1,413,565; Apr. 25.
- Paint-removing device. W. G. Manley. No. 1,408,623; Mar. 7.
- Paint-shop appliance. E. F. White. No. 1,413,087; Apr. 18.
- Paint sprayer. D. J. Sullivan. No. 1,434,569; Nov. 7.
- Paint vehicle. W. N. Blakeman, Jr. No. 1,423,389; July 13.
- Paint vehicle. W. A. Collings. No. 1,428,273; Sept. 5.
- Paint, Water. A. L. Rice. No. 1,423,256; July 18.
- Paint, Wormproof, antifouling. O. C. Matthews. No. 1,434,304; Oct. 31.
- Painting and varnishing, Oil for use in. S. Lerner. No. 1,432,110; Oct. 17.
- Painting apparatus. W. A. Heinrich. No. 1,440,147; Dec. 26.
- Painting-booth apparatus. J. A. Paasche. No. 1,418,731; June 6.
- Painting composition. J. W. Howland. No. 1,402,500; Jan. 3.
- Painting machine. J. Hasselberger. No. 1,426,986; Aug. 22.
- Painting machine, Automatic barrel. M. P. Weimar. No. 1,436,223; Nov. 21.
- Painting mixture. V. Williamson. No. 1,418,416; June 6.
- Painting, Obtaining of grain and like effects in. W. Berry. No. 1,416,325; May 16.
- Paintings, Making embossed reproductions of oil. W. Opel. No. 1,412,131; Apr. 11.
- Paints, Manufacture of. A. E. Kellam. No. 1,408,091; Feb. 28.
- Paints, Manufacture of. H. Sellman. No. 1,412,898; Apr. 18.
- Paints, Manufacture of. S. R. Trevor. No. 1,436,736; Nov. 28.
- Paints, Pigment composition for. W. N. Blakeman, Jr. No. 1,423,391; July 18.
- Paints, varnishes, etc., Removal of. W. Tiddy. No. 1,417,955; May 30.
- Paint or stain and insect and vermin repellent, Composition of matter for use as. C. F. Armitage, F. H. Holmes, and B. C. Berry. No. 1,439,053; Dec. 19.
- Paint pigments and making the same, Vehicle for. W. G. Hall. No. 1,439,887; Dec. 26.
- Paintable compositions, Manufacture of. H. Plauson. No. 1,436,820; Nov. 28.
- Pair furnace. J. Millholland. No. 1,427,009; Aug. 22.
- Pallet. J. Knox. No. 1,439,473; Dec. 19.
- Pallet-feeding mechanism. H. W. B. Graham. No. 1,434,608; Nov. 7.
- Pan: See—
- Ash pan. Locomotive ash pan.
- Baking pan. Oil pan.
- Dustpan. Pie pan.
- Evaporating pan. Pigment-stirring pan.
- Flat-slab pan. Pipe pan.
- Gold pan. Rotary grain pan.
- Ice pan. Trolley pan.
- Pan and making the same. L. H. Debs. No. 1,438,698; Dec. 12.
- Pan, Baking. A. De Gregory. No. 1,407,131; Feb. 21.
- Pan, Flat-slab. R. R. Leffer. No. 1,410,328; Mar. 21.
- Pan greaser. S. C. Viden. No. 1,407,102; Feb. 21.
- Pan-greasing machine. C. A. Freilhofer and J. F. Schmidt. No. 1,404,592; Jan. 24.
- Pan lifter. N. S. Beebe. No. 1,431,560; Oct. 10.
- Pan rack, Revolving. J. J. Nolte. No. 1,430,748; Oct. 3.
- Pan with overflow-alarm device. A. Renda. No. 1,421,717; July 4.
- Pans and kettles, Detachable handle for. J. J. Kirby. No. 1,414,189; Apr. 25.
- Pans, etc., from one conveyor to an oppositely-moving conveyor. P. Rasmussen. No. 1,414,667; May 2.
- Pancake iron. N. A. Rose. No. 1,417,351; May 23.
- Panel. L. H. Garlinghouse. No. 1,417,664; May 30.
- Panel. L. H. Garlinghouse. No. 1,426,374; Aug. 22.
- Panel. J. F. Hirt. No. 1,427,812; Sept. 5.
- Panel board and panel-board construction. H. F. Starrett. Nos. 1,414,676-7; May 2.
- Panel lock. J. F. Brodowski and G. J. Burmeister. No. 1,434,038; Oct. 31.
- Panel rod. H. Junkers. No. 1,424,912; Aug. 8.
- Panel-trimming machine. F. Rissmann. No. 1,431,899; Oct. 10.
- Panel, Wooden. J. Butler. No. 1,418,067; May 30.
- Panels and forming same, Closed pocket for. C. H. Carroll. No. 1,149,490; June 13.
- Panels, Molding. A. Elmendorf. No. 1,434,651; Nov. 7.
- Pantograph. W. H. Hope. 1,437,307; Nov. 28.
- Pantograph apparatus. G. S. Tiffany. No. 1,408,045; Feb. 28.
- Pantograph engraving machine. W. H. Hope. No. 1,409,718; Mar. 14.
- Pantograph, Rail. R. H. Bennett. No. 1,418,614; June 6.
- Paper and fabrics, Bleaching. J. C. Baker. No. 1,413,154; Apr. 18.
- Paper and making same, Ornamental. M. A. T. Gillbee. No. 1,403,765; Jan. 17.
- Paper and making same, Water-resistant. W. Hoskins. No. 1,430,998; Oct. 3.
- Paper and method of and means for coating it, Coated tissue. F. M. Schuler. No. 1,428,064; Sept. 5.
- Paper and paper-box testing machine. J. W. Webb. No. 1,413,305; Apr. 18.
- Paper and paper containers greaseproof, Rendering. W. L. Wright. No. 1,417,708; May 30.
- Paper and paraffin wax, Apparatus for reclaiming. B. B. Wickey. No. 1,431,553; Oct. 10.
- Paper, Apparatus for imparting a pattern finish to. W. J. Price. No. 1,403,629; Jan. 17.
- Paper, Apparatus for removing wall. E. T. Lancaster. No. 1,428,442; Sept. 5.
- Paper bag. A. Potdevin. No. 1,435,657; Nov. 14.
- Paper-bag press. J. W. Taggart. No. 1,432,426; Oct. 17.
- Paper bags or the like, Handle construction for. E. D. Haines. No. 1,410,404; Mar. 21.
- Paper barrel and manufacturing the same. R. S. Bolger. No. 1,436,643; Nov. 28.
- Paper barrels, Method of and apparatus for manufacturing. R. S. Bolger. No. 1,428,469; Sept. 5.
- Paper-binding clip. E. S. Ensign. No. 1,435,917; Nov. 21.
- Paper-board box. G. E. Scruby. No. 1,425,549; Aug. 15.
- Paper board, paste board or fiber board, Mechanism for scoring. G. W. Swift, Jr. No. 1,408,486; Mar. 7.
- Paper bottles, Manufacture of. J. G. V. Lang. No. 1,415,100; May 9.
- Paper box. S. Bergstein. No. 1,426,948; Aug. 22.
- Paper box. H. C. Kessler. No. 1,421,494; July 4.
- Paper box. F. J. Wiesman. No. 1,406,707; Feb. 14.
- Paper box, box corner and blank therefor, Folding. H. B. Allen. No. 1,411,555; Apr. 4.
- Paper box construction. H. B. Smith. No. 1,437,274; Nov. 28.
- Paper box, Folding. P. Walker. No. 1,411,678; Apr. 4.
- Paper box, Knockdown corrugated. H. L. Borders. No. 1,437,221; Nov. 28.
- Paper box or similar container. A. L. Weis. No. 1,433,439; Oct. 24.
- Paper boxes, Lock for. E. Kotterman. No. 1,424,830; Aug. 8.
- Paper boxes, Machine for making. C. Horton. No. 1,430,232; Sept. 26.

Alphabetical list of inventions—Continued.

- Paper boxes, Making covered. H. B. Smith. No. 1,402,260; Jan. 3.
- Paper boxes, Method and device for perfecting folded. L. E. La Bombard and M. H. Sidebotham. No. 1,405,139; Jan. 31.
- Paper boxes or containers, Reenforced blank material for the manufacture of. G. W. Swift, jr., No. 1,425,914; Aug. 15.
- Paper bucket. E. I. Rike. No. 1,407,483; Feb. 21.
- Paper cabinet. H. A. Gurney. No. 1,415,170; May 9.
- Paper, Carbon. E. L. Burnett. No. 1,419,217; June 13.
- Paper, cardboard, and like receptacle or container. A. H. Stevenson. No. 1,438,274; Dec. 12.
- Paper, cardboard, artificial leather and the like from peat, Manufacture of pulp for. A. L. Burlin. No. 1,420,303; June 20.
- Paper-carriage mechanism. A. Pentecost. No. 1,435,493; Nov. 14.
- Paper-carriage-return mechanism. E. T. Emley. No. 1,435,518; Nov. 14.
- Paper carried by smut-sheet machines, Means for steady-ing. J. E. Gilbert and G. W. Harris. No. 1,427,530; Aug. 29.
- Paper clasp. J. W. Grant. No. 1,420,654; June 27.
- Paper cleaner, Wall-. G. J. Forcier. No. 1,430,225; Sept. 26.
- Paper clip. F. P. Holt. No. 1,418,306; June 6.
- Paper clip. W. Ketola. No. 1,433,461; Oct. 24.
- Paper clip. J. S. and W. J. Matthews and S. Brown. No. 1,403,615; Jan. 17.
- Paper, Coating. F. P. Reed. No. 1,431,489; Oct. 10.
- Paper-coating composition. F. Coates. No. 1,414,256; Apr. 25.
- Paper-coating compositions, Preparing. J. H. Ryan. No. 1,434,227; Oct. 31.
- Paper-coating machinery, Drier for. F. P. Reed. No. 1,432,302; Oct. 17.
- Paper, Connecting and corrugating. F. H. Bither. No. 1,410,879; Mar. 28.
- Paper-cone-wrapping machine and the product obtained thereby. W. S. Van Sant. No. 1,434,934; Nov. 7.
- Paper container. H. S. Brewington. Nos. 1,425,168-9; Aug. 8.
- Paper container. H. D. Lilbridge. No. 1,436,990; Nov. 28.
- Paper container. A. Moore. No. 1,432,718; Oct. 17.
- Paper container. A. Moore. No. 1,436,456; Nov. 21.
- Paper container for greaselike substances. W. L. Wright. No. 1,417,707; May 30.
- Paper-container handle. W. W. Shorday. No. 1,420,453; June 20.
- Paper containers, Making. M. D. Baron. No. 1,413,251; Apr. 18.
- Paper controller, Roll-. G. Bullock. No. 1,434,040; Oct. 31.
- Paper-conveying mechanism. J. D. McCracken. No. 1,424,952; July 25.
- Paper cup, Sanitary. D. F. Curtin. No. 1,413,460; Apr. 18.
- Paper cups, Blank for. D. F. Curtin. (Reissue.) No. 1,5381; June 13.
- Paper cups, etc., Machine for making. H. de Olaneta. No. 1,402,286; Jan. 3.
- Paper cups, Machine for making. C. S. Batdorf. No. 1,420,808; June 27.
- Paper-cutter clamp. C. Seybold. No. 1,404,239; Jan. 24.
- Paper cutters, Beveling machine for. W. M. Floto. No. 1,426,974; Aug. 22.
- Paper cutters for printing and sealing wrapper, Attachment for roll-. G. L. Hozan. No. 1,436,257; Nov. 21.
- Paper cutting and pasting device, Wall-. C. Panzeri. No. 1,426,667; Aug. 22.
- Paper-cutting device. J. B. Austin. No. 1,434,475; Nov. 7.
- Paper-cutting machine. R. S. Tyler. No. 1,413,206; Apr. 18.
- Paper-cutting machines, Angle-gauge attachment for. H. Stengel. No. 1,410,519; Mar. 21.
- Paper-cutting machines, Corner-cutting gauge for. V. T. Rybicki and B. Greenfield. No. 1,402,540; Jan. 3.
- Paper-cutting machines, Indicating device for. F. O. Scott. No. 1,402,543; Jan. 3.
- Paper-cutting machines, Safety device for. W. B. Murtha. No. 1,408,020; Feb. 28.
- Paper-cutting mechanism. W. F. Morse. No. 1,424,175; Aug. 1.
- Paper, Device for graduating lines on ruled. B. Shtatz. No. 1,422,892; July 18.
- Paper, Device for rolling up. F. Schade. No. 1,426,779; Aug. 22.
- Paper dish. E. T. Maxwell. No. 1,423,001; July 18.
- Paper disk separating and feeding device. G. W. Blankenhorn. No. 1,407,318; Feb. 21.
- Paper-display box. C. F. Kelly. No. 1,414,363; May 2.
- Paper doll. R. E. Newton. No. 1,436,671; Nov. 28.
- Paper doll. B. H. Scofield. No. 1,438,337; Dec. 12.
- Paper, Drier for drying coated. A. H. Parker. No. 1,426,095; Aug. 15.
- Paper, etc., Driving device for rolling up endless. B. E. Fougner. No. 1,404,284; Jan. 24.
- Paper-drying apparatus. F. P. Reed. No. 1,431,756; Oct. 10.
- Paper-drying machine. W. M. Barber. No. 1,419,534; June 13.
- Paper-drying machine. P. Breuer. No. 1,427,437; Aug. 29.
- Paper fastener. B. H. Freedman. No. 1,423,520; July 25.
- Paper fastener. C. Strube. No. 1,438,619; Dec. 12.
- Paper fastener. A. S. Tonkin. No. 1,422,143; July 11.
- Paper, etc., Fastener for loose sheets of. W. C. Crocker. No. 1,410,799; Mar. 28.
- Paper feed for headrests. A. T. Pattimore. No. 1,426,837; Aug. 22.
- Paper-feed-roll clutch. H. A. W. Wood. No. 1,410,090; Mar. 21.
- Paper feeder, Automatic. F. E. Weed. No. 1,412,323; Apr. 11.
- Paper-feeding device. P. A. Gallien. No. 1,417,597; May 30.
- Paper-feeding machine. G. E. A. Eule. No. 1,431,386; Oct. 10.
- Paper-feeding mechanism. L. Jensen. No. 1,407,424; Feb. 21.
- Paper-feeding mechanism. A. G. Jones and A. W. Nielson. No. 1,403,250; Jan. 10.
- Paper-feeding mechanism. W. M. Kelly. No. 1,424,916; Aug. 8.
- Paper-feeding mechanism. D. Noble. No. 1,424,116; July 25.
- Paper-feeler mechanism. L. R. Barber. No. 1,434,582; Nov. 7.
- Paper felt. A. L. and C. B. Clapp. No. 1,427,263; Aug. 29.
- Paper fibrine, Device for manufacturing objects of. P. E. Winnertz and F. E. Neubert. No. 1,401,979; Jan. 3.
- Paper file and binder. H. Brundage. No. 1,423,076; July 18.
- Paper files, Transfer tool for. B. F. Merritt. No. 1,420,050; June 20.
- Paper filler. W. Hoskins. No. 1,424,306; Aug. 1.
- Paper, Finishing. H. H. Hanson and P. E. Hodgdon. No. 1,401,980; Jan. 3.
- Paper, Finishing. G. W. Wheaton. No. 1,407,611; Feb. 21.
- Paper-finishing machine. W. F. McCarthy. No. 1,428,852; Sept. 12.
- Paper-folding machine. H. L. Glaze. No. 1,411,779; Apr. 4.
- Paper-folding machine. H. A. Selfridge. No. 1,429,049; Sept. 12.
- Paper-folding machine. L. A. Straubel. No. 1,423,276; July 18.
- Paper, Guide for positioning sheets of. I. Berenson. No. 1,437,744; Dec. 5.
- Paper-hanging apparatus. A. Grigas. No. 1,412,402; Apr. 11.
- Paper-hanging machine. P. Brill. No. 1,435,449; Nov. 14.
- Paper-hanging machine. B. Egleston. No. 1,403,395; Jan. 10.
- Paper-hanging machine. C. R. Williams. No. 1,413,443; Apr. 18.
- Paper holder. J. A. F. Grimbél du Bois. No. 1,413,975; Apr. 25.
- Paper holder. S. Williams. No. 1,423,286; July 18.
- Paper holder. W. White. No. 1,439,138; Dec. 19.
- Paper holder and printer, Combined roll-. J. I. Haase. No. 1,418,562; June 6.
- Paper holder, Fly-. P. A. Rauth. No. 1,431,843; Oct. 10.
- Paper holder, Roll-. E. D. Casterline and J. A. Brien. No. 1,408,499; Mar. 7.
- Paper holder, Toilet-. C. Bash. No. 1,420,403; June 20.
- Paper holder, Toilet-. J. B. Isham. No. 1,411,029; Mar. 28.
- Paper-holding device. F. R. W. Ross. No. 1,418,204; May 30.
- Paper, Imparting a pattern finish to. W. J. Price. No. 1,403,628; Jan. 17.
- Paper labels, Tempering. G. A. Robinson. No. 1,440,104; Dec. 26.
- Paper lift. A. W. Robertson. No. 1,411,520; Apr. 4.
- Paper-lining machine. G. W. Blankenhorn and T. Castberg. No. 1,407,317; Feb. 21.
- Paper machine. F. A. Headson. No. 1,407,154; Feb. 21.
- Paper machine. J. O'Hara. No. 1,420,135; June 20.
- Paper machine. F. O. Scott. No. 1,420,869; June 27.
- Paper machine. E. B. Wright and W. W. Weaver. No. 1,419,002; June 6.
- Paper-machine driers, Attachment for. J. W. Smith. No. 1,420,454; June 20.
- Paper-machine felts, Process of and apparatus for washing. J. T. Ayers. No. 1,438,286; Dec. 12.
- Paper, Machine for craping. W. W. Colley. No. 1,411,656; Apr. 4.
- Paper, Machine for folding and severing. P. D. Parsons. No. 1,433,148; Oct. 24.
- Paper, Machine for making stretchable crinkled. B. Arkell. No. 1,405,384; Feb. 7.
- Paper, Machine for marbling. M. Rheinauer. No. 1,405,163; Jan. 31.
- Paper, Machine for screening. F. M. Chapman. No. 1,437,720; Dec. 5.
- Paper machines, Automatic stock regulator for. L. Bowin. No. 1,408,977; Mar. 7.
- Paper making, Feltless wet machine for. H. R. Farnsworth. No. 1,407,398; Feb. 21.
- Paper-making machine. A. Aldrich. Nos. 1,421,753-4; July 4.
- Paper-making machine. A. Aldrich and A. L. Larson. No. 1,421,752; July 4.

Alphabetical list of inventions—Continued.

- Paper-making machine. H. Baetz. Nos. 1,438,210-11; Dec. 12.
- Paper-making machine. J. K. Darby. No. 1,436,240; Nov. 21.
- Paper-making machine. S. S. Miller. No. 1,438,050; Dec. 5.
- Paper-making machine. D. H. Schwartz. No. 1,434,318; Oct. 31.
- Paper-making machine. G. S. Witham, sr. No. 1,434,033; Oct. 31.
- Paper-making machine. G. S. Witham, jr. No. 1,438,511; Dec. 12.
- Paper-making machine, Cylinder. W. S. Crandell. No. 1,422,541; July 11.
- Paper-making machine, Means for harmonizing the rotations of the couch roll and the breast roll of a. F. G. Warburton. No. 1,410,856; Mar. 28.
- Paper-making machines, Attachment for. C. E. Cramer. No. 1,423,400; July 18.
- Paper-making machines, Cylinder mold for. R. Richardson and J. F. Key. No. 1,411,870; Apr. 4.
- Paper-making machines, Felt-cleaning device for. E. D. Bennett. No. 1,406,821; Feb. 14.
- Paper-making machines, Method of and apparatus for feeding pulp to the forming wires of. J. M. Murray. No. 1,421,981; July 4.
- Paper-making machines, Paper-cutting device for. W. H. Shellington. No. 1,402,451; Jan. 3.
- Paper-making machines, Paste regulator for. G. Hardy. No. 1,406,009; Feb. 7.
- Paper-making machines, Slice for. G. S. Witham, jr. No. 1,431,858; Oct. 10.
- Paper-making machine, Drying roll for. H. H. Vaughan. No. 1,432,645; Oct. 17.
- Paper-making machinery, Drying roll for. H. H. Vaughan. No. 1,434,170; Oct. 31.
- Paper making, Method and apparatus for draining a moist web in. A. J. Haug. No. 1,405,211; Jan. 31.
- Paper, Making pulp used in the manufacture of. C. W. Shartle. No. 1,405,946; Feb. 7.
- Paper-making stock, Process and apparatus for preparing. C. H. Allen and E. J. Trimbe. (Reissue.) No. 1,531,11; Mar. 21.
- Paper, Manufacture and crinkling of. K. Wandel. No. 1,436,127; Nov. 21.
- Paper material and composition for treating the same. W. L. Wright. No. 1,420,173; June 20.
- Paper material container and the like. W. L. Wright. No. 1,422,018; July 4.
- Paper, Means for applying paste or the like to. B. Selby. No. 1,412,897; Apr. 18.
- Paper, Method and means for coloring. E. B. Brewster. No. 1,407,247; Feb. 21.
- Paper, Method of and apparatus for separating metal from. M. K. Weill and M. L. Cornell. No. 1,406,252; Feb. 14.
- Paper, Method of and apparatus for waxing. W. L. Carter. No. 1,429,928; Sept. 26.
- Paper milk bottle and cap. L. Lichtenstein and C. O. Robertson. No. 1,436,269; Nov. 21.
- Paper mills, Acid line for. J. J. Case. No. 1,426,956; Aug. 22.
- Paper napkin. P. M. Horwitt and L. La Veck. No. 1,430,654; Oct. 3.
- Paper napkins, Making. C. P. Winter. No. 1,425,071; Aug. 8.
- Paper ornament, Tissue. M. L. Beistle. No. 1,414,006; Apr. 25.
- Paper or roofing materials on flat or sloping roofs, Laying. F. Frederiksen. No. 1,438,302; Dec. 12.
- Paper package and forming same. S. Wheeler. No. 1,430,709; Oct. 3.
- Paper, Printing and punching manifolding. J. Q. Sherman. No. 1,418,481; June 6.
- Paper, Process and apparatus for coating. F. P. Reed. No. 1,432,734; Oct. 17.
- Paper product and making the same. E. G. Acheson. No. 1,419,951; June 20.
- Paper pulp from the waste waters in paper-making machines, Apparatus for reclaiming. E. Partington. No. 1,409,885; Mar. 14.
- Paper pulp from wood, Making. F. K. Fish, Jr. No. 1,413,716; Apr. 25.
- Paper pulp, Machine for manufacturing fiber strips from. G. Türk. No. 1,426,329; Aug. 15.
- Paper pulp, Manufacturing. C. W. Shartle. Nos. 1,405,944-5; Feb. 7.
- Paper-pulp-screen machine. H. T. Baker and J. D. Haskell. No. 1,429,707; Sept. 19.
- Paper pulp, Separating. C. W. Unkle and T. D. Griley. No. 1,437,787; Dec. 5.
- Paper-pulp strip producing machine. C. Issenmann. No. 1,411,030; Mar. 28.
- Paper receptacle. A. Moore. No. 1,436,457; Nov. 21.
- Paper receptacles, Machine for forming. C. J. and C. F. Brown. No. 1,419,355; June 13.
- Paper receptacles, Machine for making. W. Fuhr. No. 1,411,338; Apr. 4.
- Paper, Recovering waste. T. Jespersen. No. 1,424,411; Aug. 1.
- Paper-registering device. R. E. Yost. No. 1,431,556; Oct. 10.
- Paper, Removing printer's ink from. A. F. Allen, A. F. McCoy, and R. O. Sternberger. No. 1,400,322; Feb. 14.
- Paper-roll bushing. H. L. Mumm. No. 1,408,126; Feb. 28.
- Paper-roll holder. R. M. MacCormac. No. 1,433,835; Oct. 31.
- Paper-roll mounting. J. H. Reedy. Nos. 1,419,982-3; June 20.
- Paper-rolling machine. F. P. Hildebrandt. No. 1,403,246; Jan. 10.
- Paper-ruling machines, Drier for. J. H. Cannon. No. 1,421,166; June 27.
- Paper-ruling machines, Feed table and guide for. L. B. Bosworth. No. 1,406,969; Feb. 21.
- Paper, Safety. G. Becker. No. 1,431,903; Oct. 10.
- Paper sheets, Apparatus and process of producing torn-edge. W. K. Trotman. No. 1,431,709; Oct. 10.
- Paper sheets, Finger ring for handling. M. A. Givens. No. 1,439,811; Dec. 26.
- Paper-slotting machines, Attachment for. E. G. Staude. No. 1,418,844; June 6.
- Paper stock, Apparatus for treating. F. P. Miller. No. 1,432,774; Oct. 24.
- Paper stock, Method of and apparatus for disintegrating. M. C. J. Billingham. No. 1,422,251; July 11.
- Paper-stock regulator. L. B. Decker. No. 1,423,555; July 25.
- Paper-stock-treating machine. M. C. J. Billingham. No. 1,420,362; June 20.
- Paper stock, Treating waxed. S. H. Dunwell. No. 1,410,739; Mar. 28.
- Paper strips, Machine for applying mouthpiece-forming sheets to cigarette. E. Koerner. No. 1,417,609; May 30.
- Paper supporting and dispensing bracket. E. S. Simcox and C. L. Waters. No. 1,437,157; Nov. 28.
- Paper-tape magazine holder, Advertising device for. R. H. Biggs. No. 1,409,654; Mar. 14.
- Paper toilet box. M. M. and F. B. Gordon. No. 1,419,671; June 13.
- Paper towel and like machine. E. Bruder. No. 1,424,709; Aug. 1.
- Paper towels, Dispenser for. G. H. Dunn. No. 1,413,656; Apr. 25.
- Paper transparent and making same, Composition for rendering. S. H. Parrish. No. 1,419,750; June 13.
- Paper tubings, Manufacturing. E. Keller. No. 1,412,018; Apr. 4.
- Paper umbrella, Waterproof. G. B. Cannon, jr., and F. W. Howard. No. 1,431,775; Oct. 10.
- Paper, Uniting waxed. J. A. Kick. No. 1,408,746; Mar. 7.
- Paper-vening machine. J. A. and V. A. Szymanski. No. 1,405,462; Feb. 7.
- Paper vessel. E. Holman. No. 1,435,120; Nov. 7.
- Paper-waxing machine. J. A. Martin. No. 1,439,183; Dec. 19.
- Paper weight. H. Fromkess. No. 1,413,465; Apr. 18.
- Paper weight and absorbent blotter. J. F. Corsan. No. 1,408,344; Feb. 28.
- Paper winder, Semiauto. F. Coates. No. 1,439,606; Dec. 19.
- Paper winder, Toilet. L. Scusa. No. 1,421,730; July 4.
- Papers, Apparatus for testing the sizing of. J. Denoël. No. 1,404,586; Jan. 24.
- Papers, Apparatus suitable for use in the drying of printed wall. J. Shorrocks. No. 1,424,742; Aug. 1.
- Parachute. A. Ackermann. No. 1,406,521; Feb. 14.
- Parachute. E. R. Calthrop. No. 1,436,011; Nov. 21.
- Parachute. J. F. Cooper and C. H. Zimmerman. No. 1,412,800; Apr. 11.
- Parachute. C. L. Newman. No. 1,423,248; July 18.
- Parachute. W. W. Whaley. No. 1,410,435; Mar. 21.
- Parachute drop. A. J. Cornelius. No. 1,435,808; Nov. 14.
- Parachute, Fuselage. E. L. Hoffman. No. 1,425,770; Aug. 15.
- Parachute harness. F. Smith. No. 1,403,984; Jan. 17.
- Parachute pack. F. Smith. No. 1,403,983; Jan. 17.
- Parachute vent. G. M. Ball. No. 1,427,771; Sept. 5.
- Parachutes and aerostats and constructing the same, Fabric structure for. G. M. Ball. No. 1,427,772; Sept. 5.
- Paracoumaron, Flake. S. P. Miller. No. 1,431,676; Oct. 10.
- Paramagnetic material, Method of and means for detecting defects in. W. E. Hoke. No. 1,426,384; Aug. 22.
- Parcel post container. J. M. Noel. No. 1,440,233; Dec. 26.
- Parcel-post mailing or C. O. D. express attachment. M. Cohen. No. 1,431,875; Oct. 10.
- Parcel-post sticker. T. R. Gautier. No. 1,435,519; Nov. 14.
- Parchment paper or vulcanized fiber and making same. B. Herstein. No. 1,429,427; Sept. 19.
- Paring-machine. B. C. Coons. No. 1,430,628; Oct. 3.
- Paring machine, Vegetable. F. M. Schaefer. No. 1,421,837; July 4.
- Parking light. W. Knapp. No. 1,401,988; Jan. 3.
- Partition connection. W. G. Hay. No. 1,418,257; May 30.
- Partition, Sheet-metal. J. O. Nyman and J. P. Pearson. No. 1,417,102; May 23.
- Partition structure. G. E. McNeal. No. 1,426,584; Aug. 22.
- Partition structure, Office. W. H. H. Mount, jr. No. 1,430,672; Oct. 3.
- Partitions, floors, etc., Composition of matter for deadening. H. B. Davis. No. 1,406,618; Feb. 14.
- Passenger register. N. Rich. No. 1,436,533; Nov. 21.
- Paste-applying apparatus. W. C. Hunting. No. 1,427,815; Sept. 5.

Alphabetical list of inventions—Continued.

- Pasteboard box, Folding. J. Wagner. No. 1,420,001; June 20.
- Paste, dough, and the like, Press for the manufacture of goods made from. R. von Steiger. No. 1,434,935; Nov. 7.
- Paste, Preparing. C. C. Carpenter. No. 1,416,787; May 23.
- Pasting machine. L. J. Van Guelpen. No. 1,423,282; July 18.
- Pasted strips, Drying and feeding mechanism for. R. A. Hendrickson. No. 1,428,329; Sept. 5.
- Pastes into certain oil pastes, Conversion of certain water. H. P. Fletcher. No. 15,298; Mar. 7. (Reissue.)
- Pasteurizer. M. Goldberger. No. 1,438,594; Dec. 12.
- Pasteurizer. I. R. Hippenmeyer and C. Skidd. No. 1,412,115; Apr. 11.
- Pasteurizer. Y. Koshio. No. 1,428,379; Sept. 5.
- Pasteurizing holder. W. J. Davis. No. 1,406,982; Feb. 21.
- Pastils and other similar products, Press for making. T. Gaillard. No. 1,435,599; Nov. 14.
- Pastils, Machine for making. C. A. Kloepping. No. 1,419,147; June 13.
- Pastries, Device for forming. F. E. Morris. No. 1,416,735; May 23.
- Pastr, Apparatus for baking. L. C. Sharp. No. 1,407,304; Feb. 21.
- Pastr, Apparatus for making cup. H. T. Inghram. No. 1,420,378; June 20.
- Pastr, Apparatus for manufacturing cup. W. McLaren. No. 1,417,757; May 30.
- Pastr-cone machine. L. H. Esselmann. No. 1,419,622; June 13.
- Pastr cones, Machine for and making. W. M. and P. D. Roberts. Nos. 1,423,259-60; July 18.
- Pastr lifter. W. G. Wilson. No. 1,427,044; Aug. 22.
- Pastr, Making and packaging. E. J. Reitzbach. No. 1,411,223; Mar. 28.
- Pastr, Making cup. W. McLaren. No. 1,438,541; Dec. 12.
- Pastr-making machines, Cutter for. C. R. Lentz. No. 1,419,276; June 13.
- Pastr materials, Press for. P. Barducci. No. 1,426,244; Aug. 15.
- Pastr, Method and means for making cup. L. C. Sharp. No. 1,416,889; May 23.
- Pastr products, Machine for baking. W. M. and P. D. Roberts. No. 1,423,258; July 18.
- Patch-applying mechanism. H. Levine. No. 1,406,661; Feb. 14.
- Patch, Blow-out. J. Bordas. No. 1,425,234; Aug. 8.
- Patch, Repair. E. J. Forbes. No. 1,414,733; May 2.
- Pattern: See—
- Garment pattern.
- Pattern and making same. A. A. Meyer. No. 1,434,906; Nov. 7.
- Pattern, chart or envelope. F. Hutter. No. 1,416,715; May 23.
- Pattern, Glove. W. A. Ruddell. No. 1,427,419; Aug. 29.
- Pattern-maker's tool. S. Deutsch. No. 1,412,555; Apr. 11.
- Pattern mechanism. C. Lea. No. 1,417,078; May 23.
- Pattern-transfer machine. P. Yohans. No. 1,421,884; July 4.
- Patterns in molding, Vibrator for wrapping. O. S. Hammond. No. 1,428,630; Sept. 12.
- Patterns, Machine for grading. E. E. Sanborn. No. 1,413,065; Apr. 18.
- Patterns, Metal character for. J. Dean. No. 1,438,949; Dec. 19.
- Pavement. F. A. Brotsch, Jr. No. 1,421,901; July 4.
- Pavement. R. M. Cooley. No. 1,411,415; Apr. 4.
- Pavement. W. T. Margetts. No. 1,402,942; Jan. 10.
- Pavement and making same. G. H. Henderson and H. K. Stephenson. No. 1,409,104; Mar. 7.
- Pavement for highways, Block. C. D. Otto. No. 1,432,202; Oct. 17.
- Paving block. C. L. Sullivan and J. D. Fletcher. No. 1,422,193; July 11.
- Paving block. G. S. and C. W. Wright. No. 1,417,010; May 23.
- Paving block and making same. J. S. Downard. No. 1,405,302; Jan. 31.
- Paving block and roadway constructed therefrom. J. D. Fletcher. No. 1,422,551; July 11.
- Paving block, Track-. E. A. Byrne. No. 1,412,504; Apr. 11.
- Paving blocks, building blocks, and the like, Composition of matter for. G. S. and C. W. Wright. No. 1,421,751; July 4.
- Pawl and ratchet. E. D. Cummings. No. 1,412,013; Apr. 4.
- Pawl and ratchet device. M. Nystrom. No. 1,406,580; Feb. 14.
- Pawl and ratchet mechanism, Noiseless. H. F. E. Baeseler. No. 1,409,814; Mar. 14.
- Pea separator, Wild-. C. L. Palmer and J. R. Hollister. No. 1,415,610; May 9.
- Pea viners, Drive for green-. F. Hamachek. No. 1,430,736; Oct. 3.
- Peas, Shelling. C. H. Plummer. No. 1,415,896; May 16.
- Peach-peeling machines, Lye regulator for. S. J. Dunkley. No. 1,439,618; Dec. 19.
- Peanut-blanching roller and method. A. Lewinski. No. 1,427,000; Aug. 22.
- Peanut digger. P. J. Fant. Nos. 1,412,304-5; Apr. 11.
- Peanut digger. J. T. Huston. No. 1,412,614; Apr. 11.
- Peanuts, Method and apparatus for blanching whole. R. A. Greene. No. 1,434,815; Nov. 7.
- Pearls and other nacreous objects, Manufacturing of artificial. J. Paiseau. No. 1,438,395; Dec. 12.
- Pearls and the like, Stringing. D. Weiss. No. 1,428,348; Sept. 5.
- Peat and the like, Pressing of. W. B. J. Robertson. No. 1,415,398; May 9.
- Peat, lignite, and other carbonaceous substances into artificial coal, Process and apparatus for the conversion of. O. A. Ford. No. 1,426,723; Aug. 22.
- Peat product. F. T. Dow. No. 1,414,344; May 2.
- Peavy. D. B. Howe. No. 1,414,878; May 2.
- Pecan cracker, Automatic-feeding self-adjusting. H. E. Paolucci. No. 1,424,675; Aug. 1.
- Pectic substance and making same. F. W. Huber. No. 1,410,920; Mar. 28.
- Pedal. J. H. Graham. No. 1,432,061; Oct. 17.
- Pedal. G. F. Long. No. 1,418,313; June 6.
- Pedal, Adjustable foot. V. W. Page. No. 1,425,413; Aug. 8.
- Pedal control, Accelerator safety. J. L. Paul. No. 1,403,443; Jan. 10.
- Pedal, Foot-control. C. Vogt. No. 1,414,907; May 2.
- Pedal lock. C. D. Bailey. No. 1,415,425; May 9.
- Pedal lock. J. W. Rogers. No. 1,411,521; Apr. 4.
- Pedal pad. J. C. Burlock. No. 1,439,065; Dec. 19.
- Pedals, Attachment for clutch-control. J. H. Deppe. No. 1,433,805; Oct. 31.
- Pedals, Foot rest for accelerator. F. R. Harper. No. 1,430,547; Oct. 3.
- Pedestal. J. Lurtz. No. 1,423,951; July 25.
- Peeling apparatus and process. S. J. Dunkley. No. 1,427,270; Aug. 29.
- Peeling machine. V. E. Ballester. No. 1,415,766; May 9.
- Peeling machines, Lyeing section of. S. J. Dunkley. No. 1,427,269; Aug. 29.
- Pelt treating and cleaning machine. C. Uccellini. No. 1,434,932; Nov. 7.
- Pen. T. Clark. No. 1,428,079; Sept. 5.
- Pen. R. P. Starkey and G. C. Rathbun. No. 1,409,037; Mar. 7.
- Pen and pencil, Combination fountain. A. R. Tallman. No. 1,417,642; May 30.
- Pen and pencil grip. P. R. George. No. 1,411,691; Apr. 4.
- Pen and pencil grip. T. M. Harrigan. No. 1,419,257; June 13.
- Pen and pencil holder and calendar, Combination. H. J. Mellon. No. 1,428,968; Sept. 12.
- Pen and pencil holder, Combined fountain-. A. Conte. No. 1,404,012; Jan. 17.
- Pen, Drawing. G. Schoenner. No. 1,412,491; Apr. 11.
- Pen, Folding drawing. L. Zweng. No. 1,425,738; Aug. 15.
- Pen, Fountain. F. M. Ashley. No. 1,419,439; June 13.
- Pen, Fountain. G. Bartie, S. Glickman, and L. Jacovitz. No. 1,427,711; Aug. 29.
- Pen, Fountain. F. L. Blackstone. No. 1,413,893; Apr. 25.
- Pen, Fountain. A. O. Dahlberg. No. 1,419,026; June 6.
- Pen, Fountain. M. D. Davis. No. 1,423,417; Sept. 5.
- Pen, Fountain. M. Finstone. No. 1,402,409; Jan. 3.
- Pen, Fountain. J. B. Friedman. No. 1,412,930; Apr. 18.
- Pen, Fountain. H. A. Funk. No. 1,433,682; Oct. 31.
- Pen, Fountain. D. B. Kaufmann. No. 1,428,333; Sept. 5.
- Pen, Fountain. T. Kovacs. No. 1,426,200; Aug. 15.
- Pen, Fountain. R. W. Lotz. No. 1,407,552; Feb. 21.
- Pen, Fountain. O. Mitchell. No. 1,416,302; May 16.
- Pen, Fountain. O. Mitchell. Nos. 1,431,538-9 Oct. 10.
- Pen, Fountain. J. A. O'Connor. No. 1,433,448; July 18.
- Pen, Fountain. J. Ring. No. 1,409,065; Mar. 7.
- Pen, Fountain. J. C. Rorison. No. 1,425,607; Aug. 15.
- Pen, Fountain. F. E. Sharah y Cantos. No. 1,415,718; May 9.
- Pen, Fountain. R. Strasser. No. 1,409,613; Mar. 14.
- Pen, Fountain. L. Taddeo. Nos. 1,409,616-17; Mar. 14.
- Pen, Fountain. A. Winter and P. S. Morgan. No. 1,433,325; Oct. 24.
- Penholder. A. Dežela. No. 1,433,940; Oct. 31.
- Penholder. E. Labhard. No. 1,425,984; Aug. 15.
- Penholder. A. M. Loughmiller. No. 1,408,956; Mar. 7.
- Penholder. E. D. Nichols. No. 1,407,563; Feb. 21.
- Pen holder, Fountain-. T. B. Greenlau. No. 1,413,476; Apr. 18.
- Penholders, Blotting attachment for. E. W. L. Nicol. No. 1,405,550; Feb. 7.
- Pen, Lettering. W. F. Barch. No. 1,419,441; June 13.
- Pen, Multiple fountain. L. L. Houser. No. 1,402,164; Jan. 3.
- Pen nib. J. A. Alling. No. 1,432,147; Oct. 17.
- Pen or pencil clip. J. H. Klenck. No. 1,404,863; Jan. 31.
- Pen pencil, Fountain-. J. H. Crowell. No. 1,405,970; Feb. 7.
- Pen, Ruling. C. A. Green and H. F. Schuh. No. 1,421,455; July 4.
- Pen, Self-filling fountain. D. W. Beaumel. No. 1,435,446; Nov. 14.
- Pen, Self-filling or reservoir. F. T. O'Hanlon. No. 1,433,222; Oct. 24.
- Pen stand, Fountain. J. Straka. No. 1,408,545; Mar. 7.
- Pen, Stylographic fountain. R. Ullrich. No. 1,425,150; Aug. 8.

Alphabetical list of inventions—Continued.

- Pen, Writing. H. Block. No. 1,406,438; Feb. 14.
 Pens, Blotter attachment for fountain. Z. J. Bricconier. No. 1,418,696; June 6.
 Pens, Manufacturing blades for drawing. K. Akashi. No. 1,402,034; Jan. 3.
 Pens with angular nibs, Manufacturing. G. E. Bartol, jr. No. 1,437,631; Dec. 5.
 Pencil. L. V. Aronson. No. 1,411,558; Apr. 4.
 Pencil. R. T. Bell. No. 1,427,999; Sept. 5.
 Pencil. H. A. Clark. No. 1,428,077; Sept. 5.
 Pencil. W. P. De Witt and D. J. La France. No. 1,423,603; July 25.
 Pencil. W. P. De Witt and D. J. La France. No. 1,434,684; Nov. 7.
 Pencil. F. W. D'Olier. No. 1,436,581; Nov. 21.
 Pencil. J. H. Fischer. No. 1,410,666; Mar. 28.
 Pencil. H. L. Fischer. No. 1,427,729; Aug. 29.
 Pencil. H. L. Fischer. (Reissue). No. 15,463; Oct. 3.
 Pencil. H. L. Fischer. No. 1,430,970; Oct. 3.
 Pencil. W. C. Fowler. No. 1,406,362; Feb. 14.
 Pencil. E. J. Hoffman. No. 1,406,736; Feb. 14.
 Pencil. H. R. Johnson. No. 1,422,984; July 18.
 Pencil. F. H. Kay. No. 1,425,323; Aug. 8.
 Pencil. C. R. Keeran and F. R. Taylor. No. 1,426,744; Aug. 22.
 Pencil. J. L. Kleinman. No. 1,437,897; Dec. 5.
 Pencil. A. Michael. No. 1,406,056; Feb. 7.
 Pencil. L. J. Most. No. 1,420,275; June 20.
 Pencil. W. R. Noe. No. 1,427,409; Aug. 29.
 Pencil. C. Perrotti. No. 1,404,138; Jan. 17.
 Pencil. S. Rasulis. No. 1,409,406; Mar. 14.
 Pencil. F. L. Sawyer. No. 1,406,585; Feb. 14.
 Pencil. C. Stehl. No. 1,416,137; May 16.
 Pencil. C. A. Stickney. No. 1,425,066; Aug. 8.
 Pencil. J. H. Waring. No. 1,430,204; Sept. 26.
 Pencil. A. F. Young. No. 1,440,045; Dec. 26.
 Pencil and eraser holder. J. E. Smoot. No. 1,428,188; Sept. 5.
 Pencil and pen clip. A. Allen. No. 1,421,657; July 4.
 Pencil attachment. C. E. Hansen. No. 1,424,096; July 25.
 Pencil cap. K. R. Garner. No. 1,432,993; Oct. 24.
 Pencil case. P. J. Calvento. No. 1,431,722; Oct. 10.
 Pencil clip. J. R. Fitton. No. 1,408,084; Feb. 28.
 Pencil clip. J. P. Nielsen. No. 1,407,474; Feb. 21.
 Pencil. Combination eyebrow. E. K. Allison. No. 1,429,823; Sept. 19.
 Pencil grip. V. Murdock. No. 1,421,535; July 4.
 Pencil, Hard-rubber. J. Salz. No. 1,414,752; May 2.
 Pencil, Hidden. A. Zubryd. No. 1,411,767; Apr. 4.
 Pencil holder. H. A. Clark. No. 1,428,076; Sept. 5.
 Pencil holder. M. Desrochers. No. 1,416,799; May 23.
 Pencil holder. C. E. Erickson. No. 1,407,738; Feb. 28.
 Pencil holder. W. C. W. Luyken. No. 1,439,828; Dec. 26.
 Pencil holder. A. D. Peralta. No. 1,430,401; Sept. 26.
 Pencil holder, etc. G. A. Carlson. No. 1,408,863; Mar. 7.
 Pencil holder or case. P. L. Bedford. No. 1,434,187; Oct. 31.
 Pencil holder, Refillable. W. J. Myatt. No. 1,420,938; June 27.
 Pencil, Lead. A. J. Coleman. No. 1,440,058; Dec. 26.
 Pencil, Lead. J. B. Mason, Jr. No. 1,402,239; Jan. 3.
 Pencil, Lead. J. B. Mason, Jr. Nos. 1,411,116-17; Mar. 28.
 Pencil, Lead. J. B. Mason, Jr. No. 1,438,451; Dec. 12.
 Pencil lead. L. W. McCandless. No. 1,405,791; Feb. 7.
 Pencil lead. C. E. Wehn. No. 1,411,822; Apr. 4.
 Pencil, Lead. D. Zakim. No. 1,426,438; Aug. 22.
 Pencil, Lead. D. Zakim. No. 1,431,510; Oct. 10.
 Pencil, Magazine. M. Finstone. No. 1,411,715; Apr. 4.
 Pencil, Magazine. L. J. Most. (Reissue). No. 15,260; Jan. 3.
 Pencil, Magazine. J. Straka. No. 1,421,742; July 4.
 Pencil, Magazine. A. Vasselli. No. 1,427,985; Sept. 5.
 Pencil, Magazine. H. C. Walker. No. 1,408,551; Mar. 7.
 Pencil, Magazine. J. H. Waring. No. 1,426,131; Aug. 15.
 Pencil, Mechanical. E. E. Hill. No. 1,437,180; Nov. 28.
 Pencil, Mechanical. A. G. Liddell. No. 1,425,871; Aug. 15.
 Pencil, Mechanical. A. J. Reid. No. 1,438,504; Dec. 12.
 Pencil, Self-loading magazine. A. B. Taylor. No. 1,433,574; Oct. 31.
 Pencil sharpener. C. A. Burdick. No. 1,421,063; June 27.
 Pencil sharpener. C. Cleveland. No. 1,417,034; May 23.
 Pencil-sharpener support. A. L. Talbott. No. 1,420,589; June 20.
 Pencils, Display case for. J. B. Mason, jr. No. 1,436,184; Nov. 21.
 Pencils, Eraser holder for. C. C. Isaacson. No. 1,435,302; Nov. 14.
 Pencils, fountain pens, etc., Holder for. G. A. Carlson. No. 1,412,505; Apr. 11.
 Pencils or other writing instruments, Device for holding. F. J. Nolte. No. 1,410,589; Mar. 28.
 Pencils, Single-magazine. A. F. Poole. No. 1,406,077; Feb. 7.
 Penmanship, Device for teaching. W. C. Lowe. No. 1,416,564; May 16.
 Penmanship, Educational appliance for practicing. S. Sbrby. No. 1,414,102; Apr. 25.
 Penmanship, Instrument for teaching and perfecting. P. F. Moffett. No. 1,418,196; May 30.
 Pendant. G. M. Wilson. No. 1,413,247; Apr. 18.
 Pendant, Blade. D. M. Wall. No. 1,417,872; May 30.
 Pendant, Self-luminous chain. R. W. Erdle. No. 1,405,770; Feb. 7.
 Pendant-setting mechanism. E. Staehli. No. 1,407,231; Feb. 21.
 Pendant switch. D. Hjorth. No. 1,421,085; June 27.
 Pendulum, Oscillating rotary. M. F. Sanborn. No. 1,409,242; Mar. 14.
 Pennant, Flying. E. H. and E. Kenney. No. 1,438,920; Dec. 12.
 Pennant holder. A. B. Caldwell. No. 1,433,933; Oct. 31.
 Pennant, Illuminated. T. J. Navins. No. 1,415,680; May 9.
 Peptones and hematin from blood, Recovering. E. E. Butterfield. No. 1,403,892; Jan. 17.
 Perambulator. F. Wojcicki. No. 1,428,736; Sept. 12.
 Perambulator and push chair, Convertible. W. E. Carter. No. 1,423,912; July 25.
 Perborates, Manufacture of. J. K. Langhard. No. 1,408,364; Feb. 28.
 Perch support. V. C. Potter. No. 1,436,527; Nov. 21.
 Perch, Spring. R. G. Beechler. No. 1,439,787; Dec. 26.
 Percolator. H. C. Biette. No. 1,405,662; Feb. 7.
 Percolator. W. H. Ellis and J. Koenig. No. 1,438,639; Dec. 12.
 Percolator. O. Tollgens. No. 1,418,850; June 6.
 Percolator. M. L. Warner. No. 1,423,475; July 18.
 Percolator. B. S. Williams. No. 1,403,724; Jan. 17.
 Percolator, Coffee. L. S. Baker. No. 1,406,814; Feb. 14.
 Percolator, Coffee. G. Rathman. No. 1,405,939; Feb. 7.
 Percolator. E. G. Rowley. No. 1,431,490; Oct. 10.
 Percolators, Guard for the handles of coffee. C. J. Duquette. No. 1,405,983; Feb. 7.
 Percussion firing mechanism. G. W. Nusbaum. No. 1,415,044; May 9.
 Percussion tool. C. W. Wyman. No. 1,440,201; Dec. 26.
 Percussive tool. L. C. Bayles. No. 1,411,253; Apr. 4.
 Percussive tools, Side-bolt construction for. L. C. Bayles. No. 1,409,904; Mar. 21.
 Perforating appliance, Electric. R. R. Cone. No. 1,425,079; Aug. 8.
 Perforating machine. C. R. Carleton. No. 1,416,168; May 16.
 Perforating machine. A. L. Day. No. 1,429,719; Sept. 19.
 Perforating machine. W. F. Lautenschlager. No. 1,434,060; Oct. 31.
 Perforating machine. A. de Márquez. No. 1,439,615; Dec. 19.
 Perforating machine. D. Noble. No. 1,425,041; Aug. 8.
 Perforating machine, Sheet-. H. K. Sandell. No. 1,423,738; July 25.
 Perforating machine, Vamp-. C. W. Newton. No. 1,439,019; Dec. 19.
 Perforating machines, Stop motion for. D. Noble. No. 1,429,447; Sept. 19.
 Perforating mechanism. L. Janssens. No. 1,413,164; Apr. 18.
 Perforating tool, Sheet-. A. W. Engel. No. 1,411,774; Apr. 4.
 Perforator. J. H. Mount. No. 1,435,869; Nov. 14.
 Perfume dispenser and container. G. W. Button and M. Sierad. No. 1,420,965; June 27.
 Permutation block. J. O. Wilson. No. 1,422,645; July 11.
 Permutation lock. F. Di Bella. No. 1,413,393; Apr. 18.
 Permutation lock. S. W. Craddock. No. 1,418,778; June 6.
 Permutation lock. H. H. Decremer. No. 1,439,154; Dec. 19.
 Permutation lock. P. Dorozynski. No. 1,413,525; Apr. 18.
 Permutation lock. J. B. Heller. No. 1,427,382; Aug. 29.
 Permutation lock. A. F. Jacobson. No. 1,427,106; Aug. 29.
 Permutation lock. J. Markus and L. Thomas. No. 1,420,723; June 27.
 Permutation lock. H. O. Nielsen. No. 1,408,772; Mar. 7.
 Permutation lock. D. E. Riggins. No. 1,413,427; Apr. 18.
 Permutation lock. J. Roszmann. No. 1,429,970; Sept. 26.
 Permutation lock. J. C. Sheller. No. 1,430,195; Sept. 26.
 Permutation lock. E. E. Shively. No. 1,437,561; Dec. 5.
 Permutation lock. A. Williams. No. 1,412,437; Apr. 11.
 Permutation lock. J. O. Wilson. No. 1,422,645; July 11.
 Permutation lock for coin banks. G. B. Keplinger. No. 1,431,162; Oct. 10.
 Permutation mechanism. J. B. Heller. No. 1,427,381; Aug. 29.
 Permutation padlock. H. Williams. No. 1,413,209; Apr. 18.
 Perspectroscope. H. Ginsburg. No. 1,415,833; May 9.
 Petcock opening and closing device. J. H. Rouse and A. M. de Ligne. No. 1,402,254; Jan. 3.
 Petroleum. R. Cross. No. 1,437,229; Nov. 28.
 Petroleum and product thereof, Distilling crude. E. M. Clark. No. 1,413,260; Apr. 18.
 Petroleum, Apparatus for treating. L. Clark. No. 1,418,621; June 6.
 Petroleum, Apparatus for treating natural emulsions of. W. S. Barnickel. No. 1,428,204; Sept. 5.
 Petroleum, Cleaning and refining distillates of. A. J. Paris, Jr. No. 1,405,156; Jan. 31.
 Petroleum or coal oil, Separating the lighter oils from crude. A. J. Paris, Jr. No. 1,405,155; Jan. 31.

- Petroleum or other liquid hydrocarbons, Wickless burner for use in connection with. P. Lucas. No. 1,433,632; Oct. 31.
- Petroleum products, Preparing clay for bleaching. C. W. Stratford. No. 1,408,655; Mar. 7.
- Petroleum products, Recovering clay used in bleaching. C. W. Stratford. No. 1,408,656; Mar. 7.
- Petroleum reduction. F. A. Kornmann. (Reissue.) No. 1,533,7; Apr. 18.
- Petroleum, Refining. P. T. Sharples. No. 1,416,890; May 23.
- Petroleum-refining apparatus, Continuous. C. A. Jouett. No. 1,415,876; May 16.
- Petroleum refining, Recovery of by-products of. C. I. Robinson. No. 1,431,259; Oct. 10.
- Petroleum, shale oil, coal tar, and the like, commonly classed as hydrocarbons, Refining. W. C. and F. E. Wells. No. 1,433,052; Oct. 24.
- Petroleum, Treatment of. W. T. Bryant. No. 1,403,145; Jan. 10.
- Petroleum under high pressure, Distilling. C. E. Stockford. No. 1,425,712; Aug. 15.
- Petroleum vapor, Apparatus for treating. D. W. Hoge. No. 1,418,375; June 6.
- Pharmaceutical compound. R. Berendes and W. Grüttefein. No. 1,440,269; Dec. 26.
- Pharmaceutical compound. H. Weyland, H. Hahl, and R. Berendes. No. 1,427,182; Aug. 29.
- Pharmaceutical product. H. Weyland, H. Hahl, and R. Berendes. No. 1,426,430; Aug. 22.
- Phenol and formaldehyde and making same, Condensation product of. W. Achtmeyer. No. 1,429,265; Sept. 19.
- Phenol, Manufacturing of products of condensation from. K. Kulas and C. Pauling. No. 1,414,139; Apr. 25.
- Phenol vapors by tar oils, Recovery of. W. Runge and H. A. Curtis. No. 1,440,108; Dec. 26.
- Phenol vapors evolved from solvent recovery process by phenolates, Recovery of. W. Runge and H. A. Curtis. No. 1,439,128; Dec. 19.
- Phenolic condensation product and making same. W. Achtmeyer. No. 1,429,267; Sept. 19.
- Phenolic condensation product article and manufacture. L. V. Redman, A. J. Weith, and F. P. Brock. No. 1,424,738; Aug. 1.
- Phenolic condensation product, Making a. D. S. Kendall. No. 1,418,718; June 6.
- Phenolic condensation products and preparing the same, Composition containing. L. H. Backeland. No. 1,439,056; Dec. 19.
- Phenols and the like, Manufacture of. R. Pocius. No. 1,430,184; Sept. 26.
- Phenyglycine bodies, Making. L. E. H. Cone. No. 1,419,720; June 13.
- Phonograph. A. K. Bowman. No. 1,436,790; Nov. 28.
- Phonograph. G. B. Burch. No. 1,414,802; May 2.
- Phonograph. G. B. Burch. No. 1,414,804; May 2.
- Phonograph. J. Hoffay. No. 1,425,966; Aug. 15.
- Phonograph. N. H. Holland. No. 1,420,316; June 20.
- Phonograph. P. J. Landin. No. 1,422,453; July 11.
- Phonograph. F. A. Lee and F. G. Rose. No. 1,413,919; Apr. 25.
- Phonograph. J. T. Leitch. No. 1,406,042; Feb. 7.
- Phonograph. J. T. Leitch. No. 1,419,459; June 13.
- Phonograph. W. F. Lubnow. No. 1,436,510; Nov. 21.
- Phonograph. J. A. Lunden. No. 1,436,969; Nov. 28.
- Phonograph. R. H. Manson. No. 1,419,938; June 20.
- Phonograph. R. J. Mardonez and P. Hansen. No. 1,404,870; Jan. 31.
- Phonograph. E. C. Oliver. No. 1,409,759; Mar. 14.
- Phonograph. H. Orsenigo. No. 1,414,151; Apr. 25.
- Phonograph. C. J. and S. L. M. Pearson. No. 1,419,514; June 13.
- Phonograph. S. J. Rognlie. No. 1,420,668; June 27.
- Phonograph. J. Shaw. No. 1,422,310; July 11.
- Phonograph. E. J. Tomlinson. No. 1,143,074; Apr. 18.
- Phonograph. E. J. Tomlinson. No. 1,432,927; Oct. 24.
- Phonograph. H. S. Uber. No. 1,426,128; Aug. 15.
- Phonograph. G. H. Underhill. No. 1,438,000; Dec. 5.
- Phonograph. L. P. Valliquet. No. 1,406,249; Feb. 14.
- Phonograph. W. M. Venable. No. 1,439,718; Dec. 26.
- Phonograph. E. A. Watson. No. 1,436,129; Nov. 21.
- Phonograph. L. R. Wolf. No. 1,406,711; Feb. 14.
- Phonograph. J. Youngquist. No. 1,421,652; July 4.
- Phonograph and lamp, Combined. S. Trustman. No. 1,438,277; Dec. 12.
- Phonograph and moving-picture machine, Combined. R. D. Gray. No. 1,428,845; Sept. 12.
- Phonograph and the like. R. Head. No. 1,429,204; Sept. 12.
- Phonograph attachment. J. R. McPhillips and H. S. Bowes. No. 1,410,108; Mar. 21.
- Phonograph attachment. D. C. A. Bosworth. No. 1,414,687; May 2.
- Phonograph attachment. S. J. Ginsburg. No. 1,418,251; May 30.
- Phonograph attachment. P. Simon. No. 1,418,101; May 30.
- Phonograph attachment. W. H. Weaser. No. 1,426,693; Aug. 22.
- Phonograph, Automatic. H. Swain. No. 1,422,321; July 11.
- Phonograph balance-weight-cover support. H. and M. Bersted. No. 1,413,382; Apr. 18.
- Phonograph booth. H. J. Brown. No. 1,407,322; Feb. 21.
- Phonograph brake. R. G. Brown. No. 1,419,214; June 13.
- Phonograph cabinet. E. E. Hutshing. No. 1,426,568; Aug. 22.
- Phonograph cabinet. J. Janes. No. 1,414,086; Apr. 25.
- Phonograph cabinet. A. A. Singler. No. 1,414,379; May 2.
- Phonograph cabinet. M. Victorsohn. No. 1,407,309; Feb. 21.
- Phonograph construction and housing. F. H. Livingston. No. 1,424,835; Aug. 8.
- Phonograph disk or record. J. P. Wright. No. 1,438,078; Dec. 5.
- Phonograph disks, Display rack for. C. A. Bower. No. 1,421,391; July 4.
- Phonograph disks, Lifting device for. J. L. Bauer. No. 1,426,034; Aug. 15.
- Phonograph drive mechanism. H. K. Sandell. No. 1,417,109; May 23.
- Phonograph driving means. H. K. Sandell. No. 1,416,306; May 16.
- Phonograph envelope and making the same. M. G. Markgraf. No. 1,424,840; Aug. 8.
- Phonograph horn and making same, Metal knockdown. L. J. Gerson. No. 1,403,314; Jan. 10.
- Phonograph machine. G. Strobino. No. 1,430,700; Oct. 3.
- Phonograph mechanism, Motor friction. E. W. Winslow. No. 1,425,353; Aug. 8.
- Phonograph motor mechanism, Hysteresis power transmitter and brake for. M. Morrison. No. 1,424,769; Aug. 8.
- Phonograph motors, Supporting structure for. M. Nyström. No. 1,437,673; Dec. 5.
- Phonograph mute. P. Brinkman. No. 1,412,672; Apr. 11.
- Phonograph needle. H. Legge. No. 1,416,216; May 16.
- Phonograph needle and holder structure. M. W. Severance. No. 1,418,478; June 6.
- Phonograph-needle buffer. T. Ahearn. No. 1,428,828; Sept. 12.
- Phonograph needle or stylus and making the same. M. T. Straight. No. 1,409,498; Mar. 14.
- Phonograph needles, Magazine for. C. O. and R. J. Foedisch. Nos. 1,436,160-1; Nov. 21.
- Phonograph needles or the like, Device for dispensing. L. Baughman. No. 1,412,826; Apr. 18.
- Phonograph or like cabinet. W. G. Aldcen. Nos. 1,439,406-7; Dec. 19.
- Phonograph, Portable. J. R. Rose. No. 1,424,681; Aug. 1.
- Photograph positive and negative. R. John. No. 1,417,328; May 23.
- Phonograph record. J. H. Adams. No. 1,411,551; Apr. 4.
- Phonograph record. J. H. Geddes. No. 1,423,206; July 18.
- Phonograph record. T. D. Jones and J. H. Barr. No. 1,425,486; Aug. 8.
- Phonograph record. E. W. Jones and E. R. Harris. No. 1,425,018; Aug. 8.
- Phonograph record. D. B. Porter. No. 1,425,281; Aug. 8.
- Phonograph-record album. F. W. Sea. Nos. 1,424,780-1; Aug. 8.
- Phonograph-record album. P. N. Sea. Nos. 1,424,778-9; Aug. 8.
- Phonograph-record cabinet. J. J. Breitman and E. M. Jordan. No. 1,403,482; Jan. 17.
- Phonograph-record cabinet. E. F. Jamieson. No. 1,432,559; Oct. 17.
- Phonograph-record cabinet. O. Lorenz. No. 1,417,188; May 23.
- Phonograph-record cabinet. E. G. Ouellette. No. 1,439,441; Dec. 19.
- Phonograph-record cabinet. A. Wiehl. No. 1,424,054; July 25.
- Phonograph-record cleaner. A. B. Kidder and H. Miller. No. 1,435,645; Nov. 14.
- Phonograph-record-cleaning attachment. J. Runk. No. 1,404,147; Jan. 17.
- Phonograph-record die holder. W. B. Bronander. No. 1,413,571; Apr. 25.
- Phonograph-record holder. A. I. Galloway. No. 1,407,938; Feb. 28.
- Phonograph-record holder. P. Morgan. No. 1,409,392; Mar. 14.
- Phonograph-record holder. A. E. Neely. No. 1,437,608; Dec. 5.
- Phonograph-record holder. A. Wenger. No. 1,415,749; May 9.
- Phonograph-record-playing repeater. H. E. Thompson. No. 1,412,148; Apr. 11.
- Phonograph-record rack. A. Wiehl. No. 1,402,332; Jan. 3.
- Phonograph records and similar articles, Cabinet for holding. G. A. Fellmann and J. L. Sinning. No. 1,438,524; Dec. 12.
- Phonograph records, Apparatus for making. R. Head. No. 1,419,851; June 13.
- Phonograph records, Device for marking. W. R. Duncan. No. 1,439,358; Dec. 19.
- Phonograph records, Device for marking. W. H. Wade. No. 1,412,300; Apr. 11.
- Phonograph, Repeating. J. H. Ling. No. 1,418,584; June 6.
- Phonograph reproducer. B. B. Blood. No. 1,419,913; June 20.

Alphabetical list of inventions—Continued.

- Phonograph reproducer. B. B. Blood. No. 1,437,391; Dec. 5.
- Phonograph reproducer. G. B. Burch. No. 1,414,803; May 2.
- Phonograph reproducer. W. E. Hunt. No. 1,410,679; Mar. 28.
- Phonograph reproducer. R. C. Mathes. No. 1,409,388; Mar. 14.
- Phonograph reproducer. P. Sucher. No. 1,402,909; Jan. 10.
- Phonograph reproducer. W. Whitten. No. 1,407,613; Feb. 21.
- Phonograph reproducers, Sound-deadening device for. E. F. Dahlheim and W. S. Hulet. No. 1,414,937; May 2.
- Phonograph resonance box. A. O. Price. No. 1,407,574; Feb. 21.
- Phonograph sound box. L. J. Bergdoll. No. 1,423,387; July 18.
- Phonograph sound box. B. Fritzsch. No. 1,437,799; Dec. 5.
- Phonograph sound box. R. Head. No. 1,404,608; Jan. 24.
- Phonograph sound boxes, Modifier for. B. B. Blood. No. 1,408,437; Mar. 7.
- Phonograph stop. H. W. Troeger. No. 1,426,125; Aug. 15.
- Phonograph stop mechanism. C. Schatte. No. 1,415,954; May 16.
- Phonograph-stopping attachment. F. E. Smith. No. 1,415,270; May 9.
- Phonograph turntable. F. W. Williams. No. 1,410,234; Mar. 21.
- Phonographic apparatus. M. A. Clark. No. 1,440,134; Dec. 26.
- Phonographic apparatus. C. C. Guernsey. No. 1,427,734; Aug. 29.
- Phonographic articles, Manufacturing of. E. E. Novotny. No. 1,404,792; Jan. 31.
- Phonographic-disk cabinet. L. I. Clutter. No. 1,416,689; May 23.
- Phonographic-disk-record ejector. E. M. Howard. No. 1,425,771; Aug. 15.
- Phonographic machine. C. M. Goldstein. No. 1,408,585; Mar. 7.
- Phonographic machines, Correction device for. G. W. Beadle. No. 1,403,584; Jan. 17.
- Phonographic records, Filing case for. C. W. Cudlipp. No. 1,412,456; Apr. 11.
- Phonographic repeating device. L. Jakubowsky. No. 1,404,774; Jan. 31.
- Phonographic sound box. W. E. C. Lau. No. 1,419,505; June 13.
- Phonographic sound box. D. A. Sealey. No. 1,416,582; May 16.
- Phonographic warning device. B. F. Freeble. No. 1,417,983; May 30.
- Phonographs and making same, Sound amplifier for. C. J. Dodge. No. 1,429,937; Sept. 26.
- Phonographs and other purposes, Speed governor for. D. W. Allis. No. 1,432,943; Oct. 24.
- Phonographs and telephones, Interference tube for. M. E. Wolvekamp. No. 1,429,993; Sept. 26.
- Phonographs and the like, Automatic sound control for. O. E. Kellum. No. 1,431,119; Oct. 3.
- Phonographs, Attachment for. C. B. Preston. No. 1,423,360; July 18.
- Phonographs, Automatic start and stop attachment for. S. Kohn. No. 1,427,479; Aug. 29.
- Phonographs, Automatic stop and start device for. L. R. Wolff. No. 1,407,908; Feb. 28.
- Phonographs, Automatic stop for. B. W. Gardner. No. 1,413,718; Apr. 25.
- Phonographs, Automatic stop for. C. B. Kerns. No. 1,411,732; Apr. 4.
- Phonographs, Automatic stop for. G. R. Knick. No. 1,403,038; Jan. 10.
- Phonographs, Automatic stop for. H. F. Spengler. No. 1,434,412; Nov. 7.
- Phonographs, Automatic stopping device for. W. T. Lakin. No. 1,412,472; Apr. 11.
- Phonographs, Cabinet for. C. S. Spitzer and J. Gloub. No. 1,402,383; Jan. 3.
- Phonographs, Cover support for. M. C. Bersted. No. 1,433,774; Oct. 31.
- Phonographs, Disk-record container for. A. G. Blocker. No. 1,419,487; June 13.
- Phonographs, Horn or amplifier for. E. A. Caviness. No. 1,412,772; Apr. 11.
- Phonographs, Horn or amplifier for. W. L. Stark. No. 1,432,092; Oct. 17.
- Phonographs, Merry-go-round attachment for. E. M. Hansley. No. 1,417,060; May 23.
- Phonographs, Motor drive for. J. H. Dickinson. No. 1,405,572; Feb. 7.
- Phonographs, Nonset automatic stop for. G. H. Taggart. No. 1,417,586; May 30.
- Phonographs, Nonset stop for. W. O. Meissner. No. 1,419,164; June 13.
- Phonographs, Picture-display attachments for. T. D. Jones and J. H. Barr. No. 1,420,928; June 27.
- Phonographs, Record file for. M. Nystrom. No. 1,438,392; Dec. 12.
- Phonographs, Record turner for. G. R. Knick. No. 1,422,989; July 18.
- Phonographs, Record wiper for. C. Landgraf and J. Hernacki. No. 1,424,023; July 25.
- Phonographs, Repeat device for. F. A. Shaw. No. 1,407,090; Feb. 21.
- Phonographs, Repeater device for. W. A. Sharp. No. 1,434,666; Nov. 7.
- Phonographs, Repeating attachment for disk-record. S. S. Johns. No. 1,438,116; Dec. 5.
- Phonographs, Repeating mechanism for. E. M. Kellogg. No. 1,407,547; Feb. 21.
- Phonographs, Repeating mechanism for. L. S. Woodhull, L. M. Prentice, and J. H. Rice. No. 1,430,780; Oct. 3.
- Phonographs, Reproducer for. J. A. Brown. No. 1,406,258; Feb. 14.
- Phonographs, Reproducer for. H. M. Duncan. No. 1,411,566; Apr. 4.
- Phonographs, Sound box for. R. Head. No. 1,440,294; Dec. 26.
- Phonographs, Sound box for. J. W. Honka. No. 1,404,769; Jan. 31.
- Phonographs, Sound-modifying device for. J. R. Parrish. No. 1,406,069; Feb. 7.
- Phonographs, Sound modulator for. N. Seaholm. No. 1,414,673; May 2.
- Phonographs, Speed regulator for. M. Nystrom and J. Spring. No. 1,437,264; Nov. 28.
- Phonographs, Stop device for. B. B. Blood. No. 1,419,914; June 20.
- Phonographs, Tone modifier for. F. W. Cooley. No. 1,423,832; July 25.
- Phosphate, Making urea. F. Clarkson and J. M. Braham. No. 1,440,056; Dec. 26.
- Phosphates soluble, Rendering crude. F. Rüsberg. No. 1,428,259; Sept. 5.
- Phosphates, Treatment of. E. C. Soper. No. 1,437,456; Dec. 5.
- Phosphatic material, Recovery of the phosphorus content of. J. N. Carothers. No. 1,410,550; Mar. 28.
- Phosphor, metals, Producing. S. L. Nicholson. No. 1,425,679; Aug. 15.
- Phosphoric acid, Producing. E. W. Guernsey and J. Y. Yee. No. 1,422,699; July 11.
- Phosphorus compound. S. S. Sadtler. No. 1,433,100; Oct. 24.
- Phosphorus from metallic solutions, Eliminating. I. Paul. No. 1,437,191; Nov. 28.
- Phosphorus from vanadium solutions, Removing. A. N. Erickson. No. 1,421,191; June 27.
- Photochemical process. W. O. Snelling. No. 1,420,346; June 20.
- Photographic accessory. W. Faas. No. 1,403,677; Jan. 17.
- Photographic and cinematographic apparatus. G. G. B. Tartara. No. 1,407,357; Feb. 21.
- Photographic and like purposes, Objective for. L. B. Booth. No. 1,421,156; June 27.
- Photographic apparatus. C. W. Frederick and D. H. Stewart. No. 1,411,689; Apr. 4.
- Photographic apparatus. G. A. and R. I. Lewis. No. 1,427,750; Aug. 29.
- Photographic apparatus. R. A. Moore. No. 1,415,042; May 9.
- Photographic apparatus. E. L. A. Paumier. No. 1,413,187; Apr. 18.
- Photographic apparatus. G. Wald. No. 1,405,080; Jan. 31.
- Photographic apparatus, Sensitized-element package for. W. Pack. No. 1,424,736; Aug. 1.
- Photographic arts, Translucent medium for use in. F. W. Hochstetter. No. 1,419,379; June 13.
- Photographic background-printing frame. P. H. Wichers and C. J. Boeger. No. 1,409,629; Mar. 24.
- Photographic backgrounds, Carrier for. J. L. MacAvoy. No. 1,412,697; Apr. 11.
- Photographic bath. F. A. Elliott. No. 1,411,687; Apr. 4.
- Photographic copying and enlarging apparatus. K. Lehto. No. 1,406,041; Feb. 7.
- Photographic developer. W. Dieterle. No. 1,432,542; Oct. 17.
- Photographic developing and fixing apparatus. F. E. Jones and C. A. Schwab. No. 1,427,741; Aug. 29.
- Photographic-developing apparatus. J. S. Greene. No. 1,421,079; June 27.
- Photographic developing, etc., Time gauge for. H. A. Masac. No. 1,421,275; June 27.
- Photographic device. A. G. Hague. No. 1,420,096; June 20.
- Photographic dry plates or films, Treating. J. D. Bagley. No. 1,417,791; May 30.
- Photographic enlargements, Apparatus for making. J. Shipman. No. 1,403,714; Jan. 17.
- Photographic enlarger. L. T. Thurber. No. 1,418,690; June 6.
- Photographic exposure meter. E. A. McMurtry. No. 1,409,225; Mar. 14.
- Photographic film. A. F. Sulzer. No. 1,432,368; Oct. 17.
- Photographic film and paper, Process and apparatus for sensitizing. F. W. Hochstetter. No. 1,403,779; Jan. 17.
- Photographic film, Antistatic. A. S. McDaniel. No. 1,431,894; Oct. 10.

- Photographic film, Antistatic. P. C. Seel. Nos. 1,434,453-4; Nov. 7.
- Photographic film, Antistatic. A. F. Sulzer. No. 1,418,405; June 6.
- Photographic film, Antistatic. A. F. Sulzer. Nos. 1,432,866-7; Oct. 17.
- Photographic-film carrier. A. A. Barber. No. 1,429,270; Sept. 19.
- Photographic-film-developing apparatus. A. R. Turner. No. 1,432,269; Oct. 17.
- Photographic film rack. G. C. Cross. No. 1,422,341; July 11.
- Photographic-film strip hanger. G. C. Cross. No. 1,404,276; Jan. 24.
- Photographic films, Apparatus for the printing of. H. V. Lawley. No. 1,435,245; Nov. 14.
- Photographic films, Composition for making antistatic. A. F. Sulzer. No. 1,437,829; Dec. 5.
- Photographic films, Method of and apparatus for producing stereoscopic. L. F. Douglass. No. 1,429,495; Sept. 19.
- Photographic films, Printing of. H. V. Lawley. No. 1,413,598; Apr. 25.
- Photographic films, Reel for. H. G. Oliver. No. 1,420,056; June 20.
- Photographic mask, Adjustable. H. Baumgartel. No. 1,430,615; Oct. 3.
- Photographic materials, High-temperature development of. A. J. Agnew and F. F. Renwick. No. 1,424,062; July 25.
- Photographic measuring device. G. Moe. No. 1,418,602; June 6.
- Photographic-print washer. O. Dunkel. No. 1,404,351; Jan. 24.
- Photographic-print-washing machine. G. M. Dye. No. 1,416,402; May 16.
- Photographic printing and numbering machine. G. M. Dye. No. 1,415,230; May 9.
- Photographic-printing apparatus. H. R. Eason. No. 1,429,723; Sept. 19.
- Photographic printing apparatus. W. C. Huebner. No. 1,414,280; Apr. 25.
- Photographic-printing apparatus. W. C. Huebner. No. 1,425,526; Aug. 15.
- Photographic-printing apparatus. W. C. Huebner. No. 1,431,664; Oct. 10.
- Photographic printing apparatus. A. Lessing. No. 1,413,746; Apr. 25.
- Photographic-printing apparatus. R. D. Moninger. No. 1,417,403; May 23.
- Photographic-printing device. H. F. Scobie and M. Ladd. No. 1,431,432; Oct. 10.
- Photographic-printing frame. P. A. Simon. No. 1,434,455; Nov. 7.
- Photographic-printing frame. G. M. Winstead. No. 1,439,987; Dec. 26.
- Photographic-printing machine. M. L. Cossitt. No. 1,421,413; July 4.
- Photographic-printing machine. G. C. Hulse. No. 1,435,850; Nov. 14.
- Photographic printing machine. J. J. Roth. No. 1,414,582; May 2.
- Photographic printing machine. J. H. Smith. No. 1,426,117; Aug. 15.
- Photographic-printing process. J. E. Thornton. Nos. 1,435,759-60; Nov. 14.
- Photographic-printing machine. R. J. Wynkoop. No. 1,403,884; Jan. 17.
- Photographic printing or continuous copying machine. B. J. Hall. No. 1,408,881; Mar. 7.
- Photographic-printing plates, Holder for. W. C. Huebner. No. 1,413,406; Apr. 18.
- Photographic-printing process. J. E. Thornton. Nos. 1,408,312-15; Feb. 28.
- Photographic-printing process and solution and material therefor. Y. A. F. Schwartz. No. 1,414,309; Apr. 25.
- Photographic printings and master or model plate for same, Registering a plate for successive. J. H. Powrie. No. 1,439,325; Dec. 19.
- Photographic prints, Folding rack for drying. M. Kawano. No. 1,408,604; Mar. 7.
- Photographic prints, Making. J. Abrahams. No. 1,410,151; Mar. 21.
- Photographic projection screen, Metallic. C. de Rochefort-Lucay. No. 1,403,742; Jan. 17.
- Photographic purposes and its wrapping, Roll film for. S. Cocanari. No. 1,436,478; Nov. 21.
- Photographic receiving apparatus. C. A. Culver. No. 1,406,445; Feb. 14.
- Photographic records, Production and projection of. B. B. A. Johnson. No. 1,425,775; Aug. 15.
- Photographic-roll-film spool. M. Niell. No. 1,423,355; July 18.
- Photographic roll films, Daylight developing tank for. G. V. Rowden. No. 1,423,457; July 18.
- Photographic sensitizing dyes of the dicyanine type, Making. S. Palkin. No. 1,437,674; Dec. 5.
- Photographic shutter. W. F. Folmer. No. 1,402,486; Jan. 3.
- Photographic shutter. R. Klein. No. 1,425,980; Aug. 15.
- Photographic shutter. P. J. Marks. No. 1,422,460; July 11.
- Photographic shutter. A. Wollensak and F. A. G. Pirwitz. No. 1,435,999; Nov. 21.
- Photographic-shutter speed-testing machine. W. A. Ridell. No. 1,431,897; Oct. 10.
- Photographic-tray rocker. M. E. Anderson. No. 1,416,396; May 16.
- Photographic-view finder. P. J. and W. O. Marks. No. 1,423,809; July 25.
- Photographic views upon films or the like, Apparatus for direct vision or for projection of separate transparent. C. Lépine. No. 1,437,112; Nov. 28.
- Photographs, Album or holder for. B. U. Cueny. No. 1,415,429; May 9.
- Photographs, Apparatus for correcting and reproducing aerial. H. Roussilhe. No. 1,410,127; Mar. 21.
- Photographs or other pictures, Combined case and easel for. A. Sussman. No. 1,407,497; Feb. 21.
- Photographs, Producing educational. C. F. Merriam. No. 1,427,615; Aug. 29.
- Photographs with special scenic or background effects, Means for taking. G. H. Sutcliffe. No. 1,418,033; May 30.
- Photography. E. W. Clark. No. 1,429,715; Sept. 19.
- Photography, Color. H. C. Deeks. Nos. 1,430,059-61; Sept. 26.
- Photography, Color. H. Hudson. No. 1,431,663; Oct. 10.
- Photography in colors. K. E. Stuart. No. 1,439,035; Dec. 19.
- Photography, Method and apparatus for producing multiple-image effects in. L. F. Douglass. No. 1,424,886; Aug. 8.
- Photography, Method and apparatus for producing multiple and varied image effects in. L. F. Douglass. No. 1,438,906; Dec. 12.
- Photography, Producing multicolored screens for. I. Kitzé. No. 1,426,995; Aug. 22.
- Photogravure press, Rotary. H. V. Biery. No. 1,421,360; July 4.
- Photometer. D. F. Comstock. No. 1,437,399; Dec. 5.
- Photometer chart. L. Kellogg. No. 1,419,385; June 13.
- Photoprint roller. R. A. Utke. No. 1,433,576; Oct. 31.
- Photoprinter. W. E. Lockhart. No. 1,412,693; Apr. 11.
- Photoprinting machine. C. Kesses. No. 1,417,832; May 30.
- Photoprocess screen and preparing same. J. A. H. Hatt. No. 1,407,029; Feb. 21.
- Physician's heating appliance. F. M. Kannenstine. No. 1,433,286; Oct. 24.
- Piano. F. H. Johnston. No. 1,432,338; Oct. 17.
- Piano. A. Krieghoff. No. 1,433,556; Oct. 31.
- Piano. C. N. Mangold. No. 1,417,191; May 23.
- Piano. J. H. Williams. No. 1,424,606; Aug. 1.
- Piano. R. Williams. No. 1,439,935; Dec. 26.
- Piano action. F. H. Abendschein. No. 1,435,442; Nov. 14.
- Piano-action bracket. O. Higel. No. 1,406,382; Feb. 14.
- Piano action, Grand. C. A. Ahlstrom. No. 1,436,303; Nov. 21.
- Piano action, Player-. G. Bedford. No. 1,419,349; June 13.
- Piano and music rack therefor. M. A. Healey. No. 1,409,143; Mar. 7.
- Piano and organ player, Pneumatic. S. G. Metzger. No. 1,412,061; Apr. 11.
- Piano and phonograph, Combined. M. Clark. No. 1,406,441; Feb. 14.
- Piano, Automatic player. W. Lane. No. 1,422,276; July 11.
- Pianos, Automatic mechanism for player. W. B. Tunstall. No. 1,430,340; Sept. 26.
- Piano construction, Player-. C. Freborg. No. 1,404,285; Jan. 24.
- Piano, Grand. J. H. Williams. No. 1,416,248; May 16.
- Piano loader. R. J. Bowen. No. 1,431,363; Oct. 10.
- Piano plates, Jig used in the manufacture of. H. A. Wahlen. No. 1,440,040; Dec. 26.
- Piano, Player. W. F. Cooper. No. 1,439,148; Dec. 19.
- Piano, Player. A. E. Goldspink. No. 1,402,595; Jan. 3.
- Piano, Player. W. Kuzelka. No. 1,402,622; Jan. 3.
- Piano, Player. V. L. Pace. No. 1,405,152; Jan. 31.
- Piano player. C. H. Spencer. No. 1,423,271; July 18.
- Piano player. C. F. Stoddard. Nos. 1,409,478-9; Mar. 14.
- Piano-player action. E. H. Dodds. No. 1,414,342; May 2.
- Piano player, Pneumatic. W. Lane. No. 1,422,275; July 11.
- Piano players, Automatic record rewind and replay mechanism for. H. A. and B. R. Van Valkenburg. No. 1,420,594; June 20.
- Piano players, Vent cleaner for. W. W. A. Kruck. No. 1,435,923; Dec. 12.
- Piano, Violin. J. L. Warner. No. 1,409,322; Mar. 14.
- Pianos and like musical instruments, Method of manufacturing keys for keyboards for. B. Jotzen. No. 1,436,986; Nov. 28.
- Pianos and other instruments, Automatic music-sheet-tracking device for player. H. Thomson and W. R. Oyston. No. 1,434,722; Nov. 7.
- Pianos and other purposes, Pedal device for. B. H. Jefferson and W. I. Kirk. No. 1,412,870; Apr. 18.
- Pianos and the like, Pneumatic action for player. A. P. Gustafson. No. 1,423,505; July 18.
- Pianos, Automatic record-centering mechanism for player. H. Pierce. No. 1,403,625; Jan. 17.
- Pianos, Automatic reverse for player. M. Lowenthal. No. 1,437,322; Nov. 28.

Alphabetical list of inventions—Continued.

- Pianos, Camphor-holder for. J. De Carlo. No. 1,407,788; Feb. 28.
- Pianos, Cleaner attachment for player. E. H. Lenz and H. Bell. No. 1,410,537; Mar. 21.
- Pianos, Combination balance-rail pin and key for. F. L. George. No. 1,403,407; Jan. 10.
- Pianos, Drive for automatic. C. H. Smith. No. 1,433,307; Oct. 24.
- Pianos, Expression valve for player. S. L. Fisher. No. 1,404,106; Jan. 17.
- Pianos, Foldable closure for. F. M. Stenterman. No. 1,407,007; Feb. 21.
- Pianos, Lighting device for player. R. C. Morenus. No. 1,415,041; May 9.
- Pianos, Mandolin attachment for. P. C. Johnson. No. 1,415,574; May 9.
- Pianos, Motor suspension for player. F. C. White. No. 1,439,044; Dec. 19.
- Pianos, Muting device for tuning. M. R. Youngman. No. 1,428,738; Sept. 12.
- Pianos, Note sheet for player. J. L. Scott. No. 1,413,293; Apr. 18.
- Pianos, Note-sheet-winding mechanism for player. S. L. Fisher. No. 1,439,156; Dec. 19.
- Pianos, Pianissimo device for player. F. A. Wessell. No. 1,414,680; May 2.
- Pianos, Player. S. L. Fisher. No. 1,404,107; Jan. 17.
- Pianos, Pneumatic action for. L. H. Pray. No. 1,413,612; Apr. 25.
- Pianos, Pneumatic action for player. J. P. Hulder. No. 1,433,283; Oct. 24.
- Pianos, etc., Repeat device for automatic. R. Head. No. 1,402,230; Jan. 3.
- Pianos, Tracking device for player. G. P. Brand. No. 1,422,824; July 18.
- Pianos, Tracking device for player. J. P. Hulder. No. 1,422,713; July 11.
- Pianos, Transposing device for player. R. Neldner. No. 1,408,824; Mar. 7.
- Pianoforte action, Metal. F. W. Waggett. No. 1,411,820; Apr. 4.
- Pick. E. H. Watt. No. 1,419,787; June 13.
- Pick handles, Reinforcement for. G. G. Dupler. No. 1,426,366; Aug. 22.
- Pick head. S. Kovacevich. No. 1,411,919; Apr. 4.
- Picker: See—
 Berry picker. Prune picker.
 Corn picker. Potato picker.
 Fruit picker. Stone picker.
 Loom picker.
- Picker-head holder. R. S. Gambrell. No. 1,426,175; Aug. 15.
- Picker stick. W. F. Davitt. No. 1,406,544; Feb. 14.
- Picker sticks, Means for operating. H. F. Livermore. No. 1,411,637; Apr. 4.
- Picket alarm. C. H. McDonald. No. 1,434,132; Oct. 31.
- Picking screen. R. W. Johnson. No. 1,431,667; Oct. 10.
- Picking table. R. M. Bickley. No. 1,425,441; Aug. 8.
- Picking tables, Belt control for. A. R. Stephen. No. 1,430,037; Sept. 26.
- Pickling apparatus. W. J. Stoop. No. 1,430,039; Sept. 26.
- Pickling machine. W. C. Leinbach. No. 1,415,589; May 9.
- Pickling process and apparatus. H. K. and N. A. Beach. No. 1,402,734; Jan. 10.
- Picture apparatus, Dissolving shutter for motion-. R. W. Pittman. No. 1,404,404; Jan. 24.
- Picture apparatus, Illuminating device for moving-. E. Mechau. No. 1,417,089; May 23.
- Picture apparatus, Motion-. O. Antonelli. No. 1,406,808; Feb. 14.
- Picture apparatus, Motion-. J. Chambless. No. 1,428,531; Sept. 12.
- Picture apparatus, Motion-. H. R. Evans. No. 1,426,722; Aug. 22.
- Picture apparatus, Motion-. C. B. Harrington. No. 1,403,549; Jan. 17.
- Picture apparatus, Motion-. J. N. Ogle. No. 1,411,668; Apr. 4.
- Picture apparatus, Motion-. R. W. Pittman. No. 1,413,610; Apr. 25.
- Picture apparatus, Shutter for motion-. C. H. Gill. No. 1,414,942; May 2.
- Picture apparatus, Safety drive for motion-. W. Wenderbold. No. 1,402,274; Jan. 3.
- Picture apparatus, Safety shutter for moving-. B. L. Young. No. 1,406,802; Feb. 14.
- Picture apparatus, Synchronized motion-. W. H. Bristol. No. 1,431,628; Oct. 10.
- Picture carrier, Motion-. C. F. Jenkins. No. 1,409,004; Mar. 7.
- Picture cartoons, Method and apparatus for producing moving-. W. F. Abbe. No. 1,416,154; May 16.
- Picture constructor. P. A. Rontey and R. Taylor. No. 1,415,712; May 9.
- Picture device, Motion-. C. F. Jenkins. No. 1,411,359; Apr. 4.
- Picture-exhibiting machine, Moving-. G. W. Bennett. No. 1,426,344; Aug. 22.
- Picture film, Motion-. W. V. D. Kelley and C. H. Dunning. No. 1,431,309; Oct. 10.
- Picture film and producing same, Moving-. A. R. Meacham. No. 1,402,879; Jan. 10.
- Picture film, Motion-. A. P. H. Trivelli. No. 1,411,677; Apr. 4.
- Picture-film reel. W. A. Johnson. No. 1,412,005; Apr. 4.
- Picture-film reels, Take-up device for moving-. K. H. Beiswenger. No. 1,408,249; Feb. 28.
- Picture films, Apparatus for printing motion-. H. R. Evans. No. 1,425,461; Aug. 8.
- Picture films, Apparatus for unwinding motion-. C. M. Gottschau. No. 1,426,290; Aug. 15.
- Picture films, Production of reading matter on motion-. O. Chouinard. No. 1,403,669; Jan. 17.
- Picture frame. L. Fritz. No. 1,421,448; July 4.
- Picture frame. L. Koppersmith. No. 1,415,654; May 9.
- Picture frame. A. Petrov. No. 1,421,301; June 27.
- Picture frame. B. Proctor, Jr. No. 1,417,108; May 23.
- Picture frame. J. Tomsch. No. 1,435,762; Nov. 14.
- Picture frame. P. L. Weaver. No. 1,427,874; Sept. 5.
- Picture frame, button, badge, and the like. I. N. Zeller. No. 1,418,222; May 30.
- Picture frame, Revolving. I. Starr. No. 1,436,544; Nov. 21.
- Picture-frame stand. L. Fritz. No. 1,414,351; May 2.
- Picture hold. W. R. and C. E. Leas. No. 1,410,765; Mar. 28.
- Picture hook. G. C. A. Giroux. No. 1,409,291; Mar. 14.
- Picture illuminator. G. Loveberg. No. 1,409,114; Mar. 7.
- Picture machine, Motion-. P. W. Palmer. No. 1,425,538; Aug. 15.
- Picture machine, Motion-. N. Power. No. 1,423,452; July 18.
- Picture machine, Moving-. W. B. Cook. No. 1,404,013; Jan. 17.
- Picture machine, Moving-. P. H. Ramsdell. No. 1,404,648; Jan. 24.
- Picture machines, Automatic stop for motion-. D. S. Reid. No. 1,419,759; June 13.
- Picture machines, Cooling device for motion-. C. F. Jenkins. No. 1,408,203; Feb. 28.
- Picture machines, Automatic stop for moving-. J. B. Kuhn. No. 1,423,948; July 25.
- Picture machines, Automatic stop for moving-. M. W. Pauley. No. 1,406,889; Feb. 14.
- Picture machines, Fault finder for moving-. D. P. Smedley. No. 1,405,343; Jan. 31.
- Picture machines, Film-actuating mechanism for. F. H. Kaiser. No. 1,427,602; Aug. 29.
- Picture machines, Film feed for motion-. R. W. Pittman. No. 1,403,106; Jan. 10.
- Picture machines, Film-feeding means for motion-. J. R. Hunt. No. 1,427,597; Aug. 29.
- Picture machines, Film sprocket wheel for moving-. H. B. Byron. No. 1,424,877; Aug. 8.
- Picture machines, Fire preventer for moving-. J. Beckham. No. 1,419,206; June 13.
- Picture machines, Fire shutter for moving-. J. H. O'Brien. No. 1,423,139; July 18.
- Picture machines, Framing mechanism for moving-. C. Horton. No. 1,438,762; Dec. 12.
- Picture machines, Lighting equipment for moving-. F. F. Uhlemann. No. 1,432,870; Oct. 17.
- Picture machines, Moving-. D. A. Bodiker. No. 1,434,805; Nov. 7.
- Picture machines, Multiple-record table for motion-. W. P. Stung and L. R. Gilbert. No. 1,418,180; May 30.
- Picture machines, Safety device for motion-. J. E. Woodland. No. 1,407,616; Feb. 21.
- Picture machines, Shutter adjuster for motion-. M. L. Parret. No. 1,433,841; Oct. 31.
- Picture machines, Shutter for motion-. A. M. Patureau. No. 1,426,595; Aug. 22.
- Picture machines, Shutter mechanism for motion-. E. W. Nelson. No. 1,417,098; May 23.
- Picture machines, Shutter mechanism for moving-. N. Power. No. 1,427,228; Aug. 29.
- Picture machines, Shutter regulator for moving-. F. Y. Journeay. No. 1,434,122; Oct. 31.
- Picture-making apparatus. L. La Borie. No. 1,425,597; Aug. 15.
- Picture mirror of cylindrical type, Motion-. C. F. Jenkins. No. 1,413,333; Apr. 18.
- Picture mount. A. A. Chilcote, W. A. Hatch, and W. E. Hays. No. 1,404,579; Jan. 24.
- Picture mounting. A. A. Bronshvag. No. 1,403,537; Jan. 17.
- Picture optical system, Motion-. N. Sabo. No. 1,409,974; Mar. 21.
- Picture photography, Color motion-. F. T. O'Grady. No. 1,402,371; Jan. 3.
- Picture-projecting apparatus, Fading in and out shutter for. A. B. Werhan. No. 1,403,364; Jan. 10.
- Picture-projecting apparatus, Shutter for motion-. J. B. Blanton. No. 1,422,410; July 11.
- Picture-projecting machine. H. J. Belcher. No. 1,440,330; Dec. 26.
- Picture-projecting machine. J. W. and K. S. Brenkert. No. 1,427,575; Aug. 29.
- Picture-projecting machine and phonograph, Combined. F. V. Madaler. No. 1,408,620; Mar. 7.
- Picture-projecting machine, Automatic motion-. J. E. Winterburn. No. 1,405,884; Feb. 7.
- Picture-projecting machine, Moving-. J. A. De Vilbiss. No. 1,433,190; Oct. 24.
- Picture-projection machines, Automatic fire-preventive device for moving-. G. J. Schaffer. No. 1,409,120; Mar. 7.

Alphabetical list of inventions—Continued.

- Picture projector, Motion-. W. H. Meyer. No. 1,413,050; Apr. 18.
- Picture reel, Motion-. E. B. Clark. No. 1,431,512; Oct. 10.
- Picture series, Apparatus for the production of cinematographic. O. Messter. No. 1,432,405; Oct. 17.
- Picture-shutter-adjusting mechanism, Motion-. W. Wenderhold. No. 1,407,905; Feb. 28.
- Picture-slide-projection apparatus. E. Van Altena. No. 1,428,347; Sept. 5.
- Picture, Stereoscopic motion. L. Hammond. No. 1,435,520; Nov. 14.
- Picture studio. L. Brown. No. 1,428,139; Sept. 5.
- Picture-taking and phonograph-record-making machine, Combined. F. V. Madaler. No. 1,408,621; Mar. 7.
- Picture tape-winding mechanism, Motion-. C. H. Gill. No. 1,414,941; May 2.
- Pictures and the like, Screen for cinematograph. M. Hurd. No. 1,411,661; Apr. 4.
- Pictures and the like, Transmitting. H. K. Sandell. No. 1,423,737; July 25.
- Pictures, Device for hanging. S. M. Chase. No. 1,433,178; Oct. 24.
- Pictures, Envelope and frame for. W. Pente. No. 1,421,037; June 27.
- Pictures in colors, Method and apparatus for projecting motion. T. A. Killman. No. 1,413,591; Apr. 25.
- Pictures in colors, Producing motion-. J. Shaw. No. 1,402,668; Jan. 3.
- Pictures in colors, Production of motion. J. Shaw. No. 1,402,669; Jan. 3.
- Pictures, Machine for projecting colored motion. J. R. Hunt. No. 1,404,773; Jan. 31.
- Pictures, Music score for motion. A. J. Abrams. No. 1,409,351; Mar. 14.
- Pictures, Production of color. C. W. R. Campbell and F. G. A. Roberts. No. 1,427,578; Aug. 29.
- Pictures, Production of moving. C. W. R. Campbell and F. G. A. Roberts. No. 1,440,004; Dec. 26.
- Pictures, Reproducing. C. W. Saalburg. No. 1,407,301; Feb. 21.
- Pictures, Screen for motion. J. F. R. Troeger. No. 1,422,149; July 11.
- Pictures with exaggerated perspective, Producing. B. E. Giffen. No. 1,427,456; Aug. 29.
- Pictures with musical accompaniment, Method and apparatus for taking and reproducing cinematographic. O. Springfield and L. Czerny. No. 1,428,995; Sept. 12.
- Pie cutter. A. E. Fogelquist. No. 1,418,868; June 6.
- Pie-making machine. F. C. Eilersen. No. 1,421,430; July 4.
- Pie pan. E. Griffin. No. 1,402,065; Jan. 3.
- Pie pan. H. E. Strobhart. No. 1,411,128; Mar. 28.
- Pie-plate attachment. J. Bakken. No. 1,420,466; June 20.
- Pier, Ocean. A. C. Rush. No. 1,423,884; July 25.
- Piezo-electric device and producing the same. A. M. Nicolson. No. 1,438,965; Dec. 19.
- Piezo-electrical voltage indicator. E. C. Wente. No. 1,438,974; Dec. 19.
- Pig mold. J. W. and J. H. Simon. No. 1,410,417; Mar. 21.
- Pigment and pigment composition, etc. K. B. Lamb. No. 1,424,729; Aug. 1.
- Pigment and producing same. H. H. Buckman. No. 1,411,839; Apr. 4.
- Pigment and producing the same. P. Fireman. No. 1,424,635; Aug. 1.
- Pigment and producing the same. P. Fireman. No. 1,420,985; June 27.
- Pigment and producing same, Titanium. V. M. Goldschmidt. No. 1,436,164; Nov. 21.
- Pigment oil composition, Preparing. G. W. Acheson. No. 1,431,079; Oct. 3.
- Pigment-stirring pan. C. P. Bossert. No. 1,417,885; May 30.
- Pigment, White. H. R. Rafsky. No. 1,415,391; May 9.
- Pigments, Making. L. Baker. Nos. 1,425,436-7; Aug. 8.
- Pigments, Making binders for. H. A. Buck. No. 1,421,125; June 27.
- Pigments with rubber, Preparation of and the mixing of. C. J. Randall. No. 1,405,439; Feb. 7.
- Pile. J. P. Nordstrom. No. 1,429,964; Sept. 26.
- Pile-base expander. C. A. Stevens. No. 1,413,503; Apr. 18.
- Pile-cutting machine. J. W. Wunsch. No. 1,413,310; Apr. 18.
- Pile drivers, Bed sill for. H. R. Smith. No. 1,407,003; Feb. 21.
- Pile-jetting apparatus. W. J. O'Marr. No. 1,409,760; Mar. 14.
- Pile-lifting jack. H. H. Urquhart. No. 1,410,968; Mar. 28.
- Pile protector. W. E. Dashwood. No. 1,416,618; May 16.
- Pile regulator, Compressible. A. W. Donop. No. 1,417,151; May 23.
- Pile wire. A. F. McCollum. No. 1,405,239; Jan. 31.
- Piles, Apparatus and method for coating. F. W. Camp. No. 1,436,978; Nov. 28.
- Piles, Apparatus for concreting. F. W. Camp. No. 1,411,404; Apr. 4.
- Piles, Apparatus for making concrete. J. S. Gillies. No. 1,403,766; Jan. 17.
- Piles, Construction of and sinking. E. Bignell. No. 1,435,144; Nov. 14.
- Piles, Producing composite. H. E. Squire and H. Newsum. No. 1,409,422; Mar. 14.
- Piling, Composite sheet. C. S. Boardman. No. 1,408,069; Feb. 28.
- Pill counter and bottle filling machine. W. A. Hill. No. 1,422,860; July 18.
- Pilot-light burner. J. Brombacher. No. 1,423,750; July 25.
- Pimentos, Packing. C. Ortega. No. 1,434,663; Nov. 7.
- Pin: See—
- Aluminum rolling pin. Journal-box hinge pin.
- Bolster-locking center pin. Piston pin.
- Cotter pin. Rolling pin.
- Double-pointed push pin. Safety pin.
- Dowel pin. Self-oiling bearing pin.
- Fan-pulley pin. Self-spreading cotter pin.
- Flexible coupling pin. Split pin.
- Gauge pin. Spring pin.
- Hairpin. Tobacco pipe.
- Impaling pin. Wrist pin.
- Pin. P. S. Dahl. No. 1,405,500; Feb. 7.
- Pin. W. E. Johnson. No. 1,408,206; Feb. 28.
- Pin. A. Nonnenmann. No. 1,422,607; July 11.
- Pin. G. G. Speck. No. 1,421,037; June 27.
- Pin. C. Taylor. No. 1,414,601; May 2.
- Pin. H. M. Thomas. No. 1,413,506; Apr. 18.
- Pin and cutter, Supporting. H. M. Thomas. No. 1,413,435; Apr. 18.
- Pin fastener. T. J. W. Brown. No. 1,433,173; Oct. 24.
- Pin fastening. L. B. Cornell. No. 1,405,761; Feb. 7.
- Pin guide. G. C. L. Tisch. No. 1,421,861; July 4.
- Pin inserter and remover. L. M. Brundage. No. 1,425,447; Aug. 8.
- Pin joint. T. J. Pollard and L. S. Darling. No. 1,404,218; Jan. 24.
- Pin-point protector. J. C. Gordon. No. 1,415,835; May 9.
- Pin, Safety. C. M. Sherwood. No. 1,408,538; Mar. 7.
- Pin-setting machine. E. Hedenskoog. No. 1,437,842; Dec. 5.
- Pin-setting mechanism. A. N. Olsen. No. 1,414,787; May 2.
- Pin tongues, Joint for. A. E. Waller. No. 1,403,276; Jan. 10.
- Pin-tumbler lock. P. F. Augenbraun. No. 1,411,898; Apr. 4.
- Pin-tumbler lock. P. F. Augenbraun. Nos. 1,422,515-20; July 11.
- Pin-tumbler lock. F. C. Barker. No. 1,417,132; May 23.
- Pin-tumbler lock. M. Falk. No. 1,414,348; May 2.
- Pin-tumbler lock. J. B. Freysinger. Nos. 1,433,361-4; Oct. 24.
- Pin-tumbler lock. M. C. Maxwell. No. 1,422,594; July 11.
- Pin-tumbler lock. F. W. Schroeder. No. 1,438,336; Dec. 12.
- Pin-tumbler lock. F. E. Thompson. No. 1,422,497; July 11.
- Pins, Appliance for finishing crank. S. A. Nonsuch. No. 1,412,887; Apr. 18.
- Pins, Locking device for. J. Pejchar. No. 1,410,592; Mar. 28.
- Pins, Machine for making safety. G. Boden. No. 1,405,392; Feb. 7.
- Pins, Safety device for. L. E. Sadler. No. 1,431,127; Oct. 3.
- Pins, Safety spring catch for. M. Bouquet. No. 1,409,656; Mar. 14.
- Pins, springs, washers, thimbles, and like annular members, Machine for making split cotter. F. Athimon. No. 1,408,063; Feb. 28.
- Pinch bar. F. M. Kidder. No. 1,412,007; Apr. 4.
- Pinion puller. T. H. Jacob. No. 1,436,806; Nov. 28.
- Pinion-shaft housing. V. W. Page. No. 1,420,497; June 20.
- Pinion, Toothed-hub friction. W. P. Barclay. No. 1,403,377; Jan. 10.
- Pintle-inserting machine. C. V. Strickland. No. 1,413,627; Apr. 25.
- Pipe: See—
- Furnace pipe. Smoker's pipe.
- Lapping metal pipe. Smoking pipe.
- Pitch pipe. Tobacco pipe.
- Reinforced concrete pipe.
- Pipe. G. N. Broatch. No. 1,427,781; Sept. 5.
- Pipe. S. T. Cook. No. 1,415,221; May 9.
- Pipe. C. M. Mapes. No. 1,407,038; Feb. 21.
- Pipe. H. N. Matzen. No. 1,422,367; July 11.
- Pipe. M. Theis. No. 1,418,746; June 6.
- Pipe and tool joint. C. B. and C. D. Reynolds. No. 1,407,835; Feb. 21.
- Pipe and tube tester. J. C. Bareiss. No. 1,422,522; July 11.
- Pipe, Apparatus for manufacturing. F. W. Colby. No. 1,422,834; July 18.
- Pipe-bending device. J. J. O'Reilly. No. 1,420,336; June 20.
- Pipe-bending machine. M. L. Peterson. No. 1,430,118; Dec. 19.
- Pipe bowls, Burnishing and treating corncob. H. Hirschl and A. V. Wagner. No. 1,434,119; Oct. 31.
- Pipe, cigar, and cigarette holder. J. Wawricka. No. 1,418,113; May 30.
- Pipe, cigar holder, and the like. A. M. van Doorn. No. 1,408,847; Mar. 7.

Alphabetical list of inventions—Continued.

- Pipe clamp. J. L. Brown. No. 1,430,791; Oct. 3.
 Pipe clamp. F. I. Johnson. No. 1,418,650; June 6.
 Pipe clamps and the like, Divided ring for. J. Clark. No. 1,423,754; July 25.
 Pipe cleaner. W. Müller. No. 1,419,886; June 13.
 Pipe cleaner. G. E. Stevens. No. 1,402,107; Jan. 3.
 Pipe conduits, especially wooden-stave pipes, Winding-machine for. A. Kielland. No. 1,402,515; Jan. 3.
 Pipe connection, Quick-detachable. C. B. Knepper. No. 1,436,882; Nov. 28.
 Pipe construction. P. F. Flagge. No. 1,428,427; Sept. 5.
 Pipe coupling. A. B. Courchene. No. 1,415,157; May 9.
 Pipe coupling. F. Fillis. No. 1,430,969; Oct. 3.
 Pipe coupling, Automatic train-. J. B. Genin. No. 1,437,645; Dec. 5.
 Pipe coupling, Flexible. F. W. Martin. No. 1,406,671; Feb. 14.
 Pipe coupling, Rotary-. H. E. Cox. No. 1,431,513; Oct. 10.
 Pipe cover. T. Malo, Jr. No. 1,408,529; Mar. 7.
 Pipe cutter. W. R. Fox and H. D. Corwin. No. 1,438,991; Dec. 19.
 Pipe cutter. J. J. Harman. No. 1,435,467; Nov. 14.
 Pipe cutter. J. G. Keatley. No. 1,428,288; Sept. 5.
 Pipe cutter. P. J. King. No. 1,413,228; Apr. 18.
 Pipe cutter. W. J. Sanders. No. 1,402,968; Jan. 10.
 Pipe cutter. W. J. Sanders. No. 1,428,712; Sept. 12.
 Pipe-cutting apparatus. A. T. Sampson. No. 1,412,220; Apr. 11.
 Pipe-cutting machine. E. Kamper. No. 1,439,963; Dec. 26.
 Pipe-cutting machine. H. Morrison. No. 1,411,122; Mar. 28.
 Pipe-cutting-off machine. J. B. Ladd. No. 1,419,936; June 20.
 Pipe cutters, Attachment for. H. W. Loose. No. 1,414,885; May 2.
 Pipe elevator. A. H. Thomas. No. 1,407,236; Feb. 21.
 Pipe-end reamer. R. H. Mueller. No. 1,410,071; Mar. 21.
 Pipe ends, Method of and apparatus for expanding and straightening. C. Fell. No. 1,431,883; Oct. 10.
 Pipe filter, Breather-. H. H. Garner. No. 1,402,348; Jan. 3.
 Pipe fitting, Waste and vent. B. Kaplan. No. 1,427,107; Aug. 29.
 Pipe fittings and analogous articles, Manufacturing. K. A. Soderstrom. No. 1,406,693; Feb. 14.
 Pipe, Form for making. G. A. Bonelli. No. 1,403,585; Jan. 17.
 Pipe grip. W. T. Bell and T. C. Rogers. No. 1,404,084; Jan. 17.
 Pipe grip. W. H. Edwards. No. 1,420,532; June 20.
 Pipe grip. C. A. Johnston. No. 1,433,624; Oct. 31.
 Pipe-handling apparatus. A. H. Brandon. No. 1,417,490; May 30.
 Pipe-holder flue attachment. F. Edwards. No. 1,414,266; Apr. 25.
 Pipe joint. S. E. Page. No. 1,424,586; Aug. 1.
 Pipe joint. J. Schuette. Nos. 1,420,670-1; June 27.
 Pipe joint. J. Schütte. No. 1,420,669; June 27.
 Pipe joint and producing it. C. S. Babb. No. 1,414,800; May 2.
 Pipe joint, Flexible-. J. J. Reynolds. No. 1,434,631; Nov. 7.
 Pipe joint, Universal. R. Springborn. No. 1,402,545; Jan. 3.
 Pipe-laying machine. F. E. Reed. No. 1,409,407; Mar. 14.
 Pipeless furnace. C. M. Buller. No. 1,422,828; July 18.
 Pipeless furnace. C. M. Buller. No. 1,439,538; Dec. 19.
 Pipe lifter. J. P. Cassidy. No. 1,420,621; June 27.
 Pipe lines, Safety control for hydraulic. E. Buehle and E. C. Hutchinson. No. 1,421,904; July 4.
 Pipe machines, Attachment for. L. P. Hustedler. No. 1,405,784; Feb. 7.
 Pipe or conduit hanger. J. T. Barry. No. 1,416,679; May 23.
 Pipe puller, Safety. B. C. Whittaker. No. 1,435,772; Nov. 14.
 Pipe-sawing apparatus. D. H. Pinkney. No. 1,407,439; Feb. 21.
 Pipe sections, Making cast-iron. L. A. Griffin. No. 1,416,460; May 16.
 Pipe-sleeve holder. E. E. Hall. No. 1,434,382; Nov. 7.
 Pipe slip. E. E. Greve. No. 1,436,246; Nov. 21.
 Pipe, Smoker's. R. L. Beselin. No. 1,408,251; Feb. 28.
 Pipe spear. C. L. Crutcher. No. 1,418,538; June 6.
 Pipe-spoked wheel. W. E. Williams. No. 1,439,459; Dec. 19.
 Pipe-stamping machine. R. R. Solmsion. No. 1,426,784; Aug. 22.
 Pipe-stringer clamp. F. Brandt. No. 1,437,089; Nov. 28.
 Pipe-threading tool. A. Jarmolowsky. No. 1,428,035; Sept. 5.
 Pipe, Tobacco. H. Villaume. No. 1,403,527; Jan. 17.
 Pipe unions, Forming. A. Nordlund. No. 1,408,390; Feb. 28.
 Pipe vise stand. J. E. Albinson. No. 1,426,531; Aug. 22.
 Pipe-wall scraper. W. F. Ganster. No. 1,411,965; Apr. 4.
 Pipe wrench. C. L. Anderson and J. T. Smith. No. 1,421,137; June 27.
 Pipe wrench. W. L. Bockover. No. 1,407,691; Feb. 28.
 Pipe wrench. R. F. Boop. No. 1,410,794; Mar. 28.
 Pipe wrench. E. H. Booth. No. 1,411,471; Apr. 4.
 Pipe wrench. G. C. Claypoole. No. 1,409,672; Mar. 14.
 Pipe wrench. J. W. D. Cook. No. 1,426,362; Aug. 22.
 Pipe wrench. W. Dvorak. No. 1,422,548; July 11.
 Pipe wrench. R. O. Esheimein. No. 1,440,346; Dec. 26.
 Pipe wrench. P. G. Green. No. 1,423,793; July 25.
 Pipe wrench. A. J. Meyers. No. 1,437,539; Dec. 5.
 Pipe wrench. C. L. Moore. No. 1,404,178; Jan. 17.
 Pipe wrench. H. Parker. No. 1,422,302; July 11.
 Pipe wrench. Z. C. Richardson. No. 1,412,708; Apr. 11.
 Pipe wrench. H. F. Robins. No. 1,420,058; June 20.
 Pipe wrench. J. Rudy. No. 1,424,381; Aug. 1.
 Pipe wrench. M. L. Terry. No. 1,437,873; Dec. 5.
 Pipe wrench. W. J. Thomas. No. 1,431,994; Oct. 17.
 Pipe wrench. W. J. Twiss. No. 1,407,238; Feb. 21.
 Pipe wrench, Automatic. C. C. McCoy. No. 1,418,816; June 6.
 Pipe wrench, Inside. W. A. Butler. No. 1,405,896; Feb. 7.
 Pipes and bars, Bending device for. F. B. Potter. No. 1,419,755; June 13.
 Pipes and cigar and cigarette holders, Attachment for. N. B. Panoff. No. 1,402,536; Jan. 3.
 Pipes and return bends, Connecting. C. K. Lassiter and J. Kindervater. No. 1,417,395; May 23.
 Pipes, Apparatus for lifting. H. J. Kuhlman. No. 1,412,182; Apr. 11.
 Pipes, Automatic shut-off for locomotive steam. H. R. Stafford. No. 1,405,950; Feb. 7.
 Pipes, Collar or the like for joining hard-metal. F. L. Pyffe. No. 1,426,724; Aug. 22.
 Pipes, Combined shipping package and display rack for smoking. J. D. Burger. No. 1,436,337; Nov. 21.
 Pipes, Device for unscrewing and drawing. G. V. Lewis. No. 1,420,044; June 20.
 Pipes, Electric heater for thawing. A. C. Hoffman. No. 1,408,196; Feb. 28.
 Pipes, Heat-insulating covering for. C. Doino. No. 1,411,960; Apr. 4.
 Pipes, Machine for the production of wrought-iron ribbed. K. Hofwing. No. 1,404,122; Jan. 17.
 Pipes of plastic material, Molding. T. E. Murray. No. 1,406,578; Feb. 14.
 Pipes or tubes, Bending. L. H. Brinkman. No. 1,429,924; Sept. 26.
 Pipes, Process and apparatus for manufacture of. N. P. Sjobring. No. 1,404,830; Jan. 31.
 Pipes, rods, and the like, Machine for straightening. L. Wolfram. No. 1,408,791; Mar. 7.
 Pipes, Sterilizing attachment for water-supply. W. S. Bachman. No. 1,435,790; Nov. 14.
 Pipes, Swivel for. B. F. Paxton. No. 1,409,022; Mar. 7.
 Pipes, Tubular molding core for. T. E. Murray. No. 1,406,577; Feb. 14.
 Pistol. L. N. Diehm. No. 1,405,765; Feb. 7.
 Pistol, Automatic. D. Artamendi. No. 1,416,671; May 23.
 Pistol, Automatic. F. Feederle. No. 1,427,097; Aug. 29.
 Pistol, Automatic. I. N. Lewis. No. 1,430,662; Oct. 3.
 Pistol, Automatic. P. C. Peterson. No. 1,405,321; Jan. 31.
 Pistol, Automatic. N. Pieper. No. 1,427,413; Aug. 29.
 Pistol, Automatic. E. S. Pomeroy. No. 1,431,979; Oct. 17.
 Pistol, Automatic. F. O. Stokke. No. 1,403,133; Jan. 10.
 Pistol, Automatic. D. H. Stevenson. No. 1,428,304; Sept. 5.
 Pistol, Automatic loading. F. O. Stokke. No. 1,407,959; Feb. 28.
 Pistol, Cap. A. F. Lent. No. 1,419,742; June 13.
 Pistol, Convertible revolver. W. J. Molloy. No. 1,411,800; Apr. 4.
 Pistol-holding device. A. R. Holler. No. 1,430,081; Sept. 26.
 Pistol, Liquid. D. J. Monosmith. No. 1,410,026; Mar. 21.
 Pistol, Recoil-loading. J. Nickl. Nos. 1,413,184-5; Apr. 18.
 Pistol, Recoil-loading. J. Nickl. Nos. 1,427,966-7; Sept. 5.
 Pistol, Self-cocking. E. C. Fey. No. 1,415,326; May 9.
 Pistol, Self-loading. H. Ortgies. No. 1,403,705; Jan. 17.
 Pistol, Sparking. L. V. Aronson. Nos. 1,410,638-9; Mar. 28.
 Pistol such as is used for slaughtering purposes. J. G. Accles. No. 1,435,573; Nov. 14.
 Pistols, Lock mechanism for automatic. J. Declaye. No. 1,434,328; Oct. 31.
 Piston. E. E. Allyne. No. 1,426,138; Aug. 15.
 Piston. J. A. Cole and L. J. Shorter. No. 1,424,002; July 25.
 Piston. D. B. Crawford. No. 1,416,795; May 23.
 Piston. R. D. Crow. No. 1,411,843; Apr. 4.
 Piston. H. Glaser. No. 1,417,514; May 30.
 Piston. H. B. Grant. No. 1,427,205; Aug. 29.
 Piston. O. W. Hanson. No. 1,426,072; Aug. 15.
 Piston. K. D. Holland. No. 1,419,328; June 20.
 Piston. C. P. Houseman. No. 1,423,425; July 18.
 Piston. H. Kistner. Nos. 1,423,615-16; July 25.
 Piston. P. H. Kuhn. No. 1,439,109; Dec. 19.
 Piston. C. Losch. No. 1,420,934; June 27.
 Piston. E. Morgan and C. D. Brown. No. 1,409,754; Mar. 14.
 Piston. M. S. Napier. No. 1,403,560; Jan. 17.
 Piston. A. L. Nelson. No. 1,409,757; Mar. 14.
 Piston. A. L. Nelson. No. 1,438,132; Dec. 5.

Alphabetical list of inventions—Continued.

- Piston. V. W. Page. No. 1,428,492; Sept. 5.
Piston. J. R. Piper and W. R. Shrecker. No. 1,411,512; Apr. 4.
Piston. A. W. Pope, jr. No. 1,432,897; Oct. 24.
Piston. A. H. and N. E. Richards. No. 1,406,684; Feb. 14.
Piston. T. Rogatchoff. No. 1,433,478; Oct. 24.
Piston. G. B. Rowan. No. 1,403,917; Jan. 17.
Piston. W. H. Sackman. No. 1,426,913; Aug. 22.
Piston. T. G. Saxton. No. 1,410,517; Mar. 21.
Piston. O. H. Skinner. No. 1,414,221; Apr. 25.
Piston. W. F. Somes and C. H. B. Morse. No. 1,402,679; Jan. 3.
Piston. W. W. Thiede. No. 1,436,922; Nov. 28.
Piston. H. D. Waterhouse. No. 1,422,729; July 11.
Piston. N. E. Williams. No. 1,424,701; Aug. 1.
Piston and connecting rod. H. B. Johnston. No. 1,419,736; June 13.
Piston and connecting rod bearings, Self-aligning. E. E. Mansfield. No. 1,434,904; Nov. 7.
Piston and connecting rod construction. R. A. Lundell. Nos. 1,423,343-4; July 18.
Piston and packing for same. F. E. Gough. No. 1,425,641; Aug. 15.
Piston and piston ring. W. W. Burns. No. 1,419,715; June 13.
Piston and piston ring. W. W. Burns. No. 1,419,813; June 13.
Piston and piston ring. H. B. Johnston. No. 1,418,802; June 6.
Piston and piston ring. H. B. Johnston. No. 1,418,931; June 6.
Piston and piston ring. H. B. Johnston. No. 1,419,857; June 13.
Piston and piston ring. H. B. Johnston. No. 1,422,273; July 11.
Piston and piston ring. H. B. Johnston. No. 1,424,200; Aug. 1.
Piston and piston ring. J. W. Kerns. No. 1,416,472; May 16.
Piston and piston ring. H. Kistner. No. 1,437,977; Dec. 5.
Piston and piston ring. M. H. Sullivan. No. 1,427,425; Aug. 29.
Piston and piston ring. M. H. Sullivan. No. 1,433,428; Oct. 24.
Piston and valve. N. G. Holland. No. 1,438,760; Dec. 12.
Piston apparatus, Rotary. R. S. M. Mitchell. No. 1,405,736; Feb. 7.
Piston clamp. E. C. Zanon. No. 1,432,008; Oct. 17.
Piston construction. O. W. Baker. No. 1,427,930; Sept. 5.
Piston construction for internal-combustion engines. J. M. Fountain. No. 1,435,386; Nov. 14.
Piston, Engine. J. Becu. No. 1,407,629; Feb. 21.
Piston, Engine. C. J. Deibert. No. 1,433,987; Oct. 31.
Piston, Engine. C. de Lukasevics and E. Löffler. No. 1,407,667; Feb. 21.
Piston, Engine. C. Y. Knight. No. 1,418,719; June 6.
Piston engines, Apparatus for measuring and indicating the pressure or the output of. D. Fischmann. No. 1,416,456; May 16.
Piston for controlling fluids under pressure. A. P. Le Brun. No. 1,409,556; Mar. 14.
Piston for internal-combustion engines. F. O. Benoist. No. 1,420,014; June 20.
Piston for internal-combustion engines. W. T. Bowers. No. 1,437,490; Dec. 5.
Piston for internal-combustion engines. W. H. Livingood. No. 1,404,621; Jan. 24.
Piston head. H. L. F. Trebert. No. 1,412,427; Apr. 11.
Piston-head construction. J. E. Sullivan. No. 1,437,869; Dec. 5.
Piston, High-power oil-returning. J. H. Stackhouse. No. 1,432,799; Oct. 24.
Piston, Internal-combustion-engine. W. G. and M. Berry. No. 1,408,066; Feb. 28.
Piston locator. A. Klirge. No. 1,420,110; June 20.
Piston machines, Lubricating system for. F. Ackerman. No. 1,435,574; Nov. 14.
Piston of a motor, Equilibrated device for transforming into circular motion the linear motion of the. J. Leroy. No. 1,430,514; Sept. 26.
Piston or compression ring. F. Mueller. No. 1,414,747; May 2.
Piston packing. A. F. Hall. No. 1,418,918; June 6.
Piston packing. A. S. Lewis. No. 1,412,947; Apr. 18.
Piston packing. L. C. Marshall. No. 1,412,251; Apr. 11.
Piston packing. L. C. Marshall. Nos. 1,413,922-3; Apr. 25.
Piston packing. L. C. Marshall. No. 1,421,802; July 4.
Piston packing. A. D. Morris. No. 1,405,540; Feb. 7.
Piston packing. T. G. Saxton. No. 1,408,034; Feb. 28.
Piston packing. J. P. Simpson. No. 1,417,355; May 23.
Piston packing ring. C. F. P. Carrier. No. 1,403,008; Jan. 10.
Piston pin, Expansion. A. R. Lumsden. No. 1,435,406; Nov. 14.
Piston, piston valve, or the like. P. Campbell and W. J. Banks. No. 1,406,536; Feb. 14.
Piston, Pump. J. W. Chilson. No. 1,430,723; Oct. 3.
Piston ring. D. S. Anthony. No. 1,410,727; Mar. 28.
Piston ring. T. H. E. Bohlmann. No. 1,420,406; June 20.
Piston ring. R. Copp. No. 1,434,591; Nov. 7.
Piston ring. J. B. Davis. No. 1,413,521; Apr. 18.
Piston ring. J. W. Ford. No. 1,411,244; Mar. 28.
Piston ring. J. W. Ford. No. 1,421,202; June 27.
Piston ring. J. R. French. No. 1,435,223; Nov. 14.
Piston ring. A. F. Froussard. No. 1,416,011; May 16.
Piston ring. D. A. Hawley. No. 1,408,087; Feb. 28.
Piston ring. W. R. Heslewood and H. F. Mocine. No. 1,419,672; June 13.
Piston ring. J. W. Hughes. No. 1,438,763; Dec. 12.
Piston ring. C. F. Johnston. No. 1,411,360; Apr. 4.
Piston ring. T. B. Jones. No. 1,423,943; July 25.
Piston ring. D. Kapuczin. No. 1,413,031; Apr. 18.
Piston ring. A. J. H. Kuhsiek and A. Mayer. No. 1,419,150; June 13.
Piston ring. E. G. Menzenworth. No. 1,406,054; Feb. 7.
Piston ring. J. F. Morgal. No. 1,406,475; Feb. 14.
Piston ring. S. W. Morrow and J. Schlutter. No. 1,426,403; Aug. 22.
Piston ring. A. J. Mummert. No. 1,436,774; Nov. 28.
Piston ring. J. E. Norwood. No. 1,404,540; Jan. 24.
Piston ring. F. M. Osborne. No. 1,421,295; June 27.
Piston ring. J. Reid. No. 1,405,331; Jan. 31.
Piston ring. J. L. Schoen. No. 1,406,763; Feb. 14.
Piston ring. F. G. Scozzafava. No. 1,419,413; June 13.
Piston ring. M. E. Sipe. No. 1,427,975; Sept. 5.
Piston ring. H. Stoffers. No. 1,418,211; May 30.
Piston ring. C. W. Trippensee. No. 1,419,781; June 13.
Piston ring. L. Whitcomb. No. 1,407,714; Feb. 28.
Piston ring and the like and manufacturing same. B. Clews and H. M. Petersen. No. 1,433,937; Oct. 31.
Piston-ring compressor. G. Garbeth. No. 1,422,557; July 11.
Piston-ring compressor. L. J. Genett. No. 1,414,014; Apr. 25.
Piston-ring-contracting tool. W. H. Thomson. No. 1,432,138; Oct. 17.
Piston ring, Duplex. S. Johnsen. No. 1,425,017; Aug. 8.
Piston-ring expander. L. Seib and R. Brunner. No. 1,439,845; Dec. 26.
Piston-ring expander and remover. P. O. Mamock. No. 1,440,228; Dec. 26.
Piston-ring, Oilproof. P. Weidenfeller. No. 1,426,694; Aug. 22.
Piston-ring remover. J. M. Lawrence. No. 1,409,956; Mar. 21.
Piston-ring spreader. G. W. Troutman. No. 1,430,702; Oct. 3.
Piston-ring-testing machine. E. F. Ulrich. No. 1,419,428; June 13.
Piston-ring tool. E. J. Rogers. No. 1,406,686; Feb. 14.
Piston ring, Two-part. J. R. Petrie. No. 1,426,766; Aug. 22.
Piston rings and die for same, Making. W. H. Gray and J. W. Howlett. No. 1,415,439; May 9.
Piston rings and making a template therefor, Making. G. H. Blettner. No. 1,403,479; Jan. 17.
Piston rings and the like, Testing machine for. C. H. Hapgood. No. 1,439,469; Dec. 19.
Piston rings, Antislip spring for. H. C. Phelps and J. C. Fox. No. 1,422,780; July 11.
Piston rings, Apparatus for testing. J. E. Butler. No. 1,426,711; Aug. 22.
Piston rings, Cushion ring for expanding gas-engine. W. H. Thomson. No. 1,407,602; Feb. 21.
Piston rings, Device for applying. H. S. Waldron. No. 1,420,507; June 20.
Piston rings, Device for hammering. H. Kistner. No. 1,435,481; Nov. 14.
Piston rings, Device for manufacture of. J. M. Narsh. No. 1,439,017; Dec. 19.
Piston rings, Device for use in the manufacture of. G. Spann. No. 1,413,623; Apr. 25.
Piston rings, Forming. J. Reid. No. 1,405,332; Jan. 31.
Piston rings, Machine for manufacturing. J. Flammang. No. 1,429,417; Sept. 19.
Piston rings, Making. A. W. Albrecht. No. 1,415,620; May 9.
Piston rings, Making. J. Barker. No. 1,404,682; Jan. 24.
Piston rings, Making. H. C. Doan and C. J. Marson. No. 1,435,592; Nov. 14.
Piston ring, Making. J. W. Ford. No. 1,421,203; June 27.
Piston rings, Manufacturing. E. J. and G. C. Du Bois. No. 1,440,283; Dec. 26.
Piston rings, Tool for facilitating the removal and replacement of. C. H. Miles. No. 1,412,953; Apr. 18.
Piston-rod connection, Universal. G. P. Allen. No. 1,427,673; Aug. 29.
Piston rod for double-acting internal-combustion engines. H. H. Blache. No. 1,439,398; Dec. 19.
Piston rods, Apparatus for assembling. E. Schneider. No. 1,406,229; Feb. 14.
Piston rods, Scrape interceptor for. E. J. De Ville. No. 1,430,956; Oct. 3.
Pistons and piston rings to prevent distortion in use, Treating. H. C. Leeseberg. No. 1,412,288; Apr. 11.
Pistons and piston rods, Cooling of. H. H. Blache. No. 1,412,833; Apr. 18.
Pistons and scraping bearings, Device for squaring. C. E. Folk. No. 1,438,478; Dec. 12.
Pistons, Gudgeon-pin bush for. R. Allen. No. 1,415,422; May 9.
Pistons having rings in cylinders, Device for placing. G. B. Cady. No. 1,425,075; Aug. 8.

Alphabetical list of inventions—Continued.

- Pistons, Lubrication of. W. W. Douglas and S. L. Bailey. No. 1,437,585; Dec. 5.
- Pistons, Metallic packing for. A. Schultz, J. R. Tucker, and R. T. Doyle. No. 1,413,791; Apr. 25.
- Pistons, Wrist connection for. H. B. Johnston. No. 1,409,954; Mar. 21.
- Pitch burner. J. H. Murray and M. Wesson. No. 1,439,116; Dec. 19.
- Pitch pipe. C. H. Congdon. No. 1,437,747; Dec. 5.
- Pitch, Treating. F. J. Commis. No. 1,432,742; Oct. 24.
- Pitcher, Batter. A. J. Schultz. No. 1,422,382; July 11.
- Pitcher, tumbler, and package. P. Kucera. No. 1,421,696; July 4.
- Pitchfork, Removable-tine. H. C. Funk. No. 1,430,369; Sept. 26.
- Pitman, R. R. Bloss. No. 1,434,803; Nov. 7.
- Pitman connection. R. C. Livesay. No. 1,437,666; Dec. 5.
- Pitman connection. C. Pearson. No. 1,424,935; Aug. 8.
- Pitman end. R. C. Baker. No. 1,424,435; Aug. 1.
- Pitting machine, Peach-. W. Ensele. No. 1,403,852; Jan. 17.
- Pitting tool. R. C. Woods. No. 1,438,418; Dec. 12.
- Pivot. C. J. Howe. No. 1,429,881; Sept. 19.
- Pivot fixture, Elevating. C. D. Tabor. No. 1,431,060; Oct. 3.
- Pivot mounting. J. B. Johnston. No. 1,409,007; Mar. 7.
- Pivotal spring seat. O. C. Spanenberg. No. 1,429,979; Sept. 26.
- Pivotaly-mounted bodies, Mechanism for counterbalancing. E. K. Standish. No. 1,428,345; Sept. 5.
- Placard, Business hours. J. T. McNiff. No. 1,423,485; July 18.
- Placer machinery. W. R. Wilcox. No. 1,429,005; Sept. 12.
- Plaiting skirts, Device for. F. Y. and L. E. Clark. No. 1,410,653; Mar. 28.
- Plane, Carpenter's. W. Potter. No. 1,432,035; Oct. 17.
- Plane, Carpenter's. S. S. Vaughan. No. 1,439,207; Dec. 19.
- Plane, Chamfering. C. H. Groth. No. 1,425,764; Aug. 15.
- Plane, Hand. S. Pfeiffer. No. 1,417,857; May 30.
- Plane iron. N. D. Merwin. No. 1,419,400; June 13.
- Plane, Single-blade. H. Anderson. No. 1,414,974; May 2.
- Plane, Supporting. C. Dornier. No. 1,427,447; Aug. 29.
- Planer and system of motor control therefor. H. L. Blood. No. 1,432,831; Oct. 24.
- Planer, Hand. J. F. Hoy and J. C. Whitesell, jr. No. 1,426,739; Aug. 22.
- Planer, Hand. J. F. Hoy and J. C. Whitesell, jr. No. 1,432,860; Oct. 24.
- Planer, Metal. K. T. F. Jung. No. 1,429,741; Sept. 19.
- Planer, Metal. L. M. Pyle. No. 1,434,751; Nov. 7.
- Planer or like tool, Portable. G. L. Kraber. No. 1,412,209; Apr. 11.
- Planer, Road. L. Rogers. No. 1,432,791; Oct. 24.
- Planers and molders, Cutter-head spindle for. M. B. Gathman. No. 1,406,843; Feb. 14.
- Planers, Cutter for shale. J. M. Powell. No. 1,418,463; June 6.
- Planers, Speed-controlling mechanism for. A. Trosch. No. 1,439,455; Dec. 19.
- Planes, Gauge for carpenters'. G. Eger. No. 1,412,609; Apr. 11.
- Planetary transmissions, Attachment for. B. C. Gentry and G. R. Hoffman. No. 1,419,371; June 13.
- Planing machine, Block-. J. A. Courville. No. 1,407,382; Feb. 21.
- Planimeter. E. J. Willis. No. 1,404,180; Jan. 17.
- Plant box. R. A. Conklin. No. 1,405,568; Feb. 7.
- Plant box. L. W. Lemke. No. 1,439,426; Dec. 19.
- Plant cutter or harvester. J. C. Same. No. 1,437,199; Nov. 28.
- Plant-dusting machine. J. H. Wright. No. 1,420,601; June 20.
- Plant machine, Onion-. A. Durany. No. 1,407,133; Feb. 21.
- Plant marker. H. M. Rolph. No. 1,435,178; Nov. 14.
- Plant marker. H. Zopf. No. 1,407,507; Feb. 21.
- Plant product, Decorative. R. L. Johnston and J. S. Wallner. No. 1,405,786; Feb. 7.
- Plant product, Decorative. L. Koropp and V. F. Bergman. No. 1,412,008; Apr. 4.
- Plant protector. N. H. Hassel. No. 1,423,659; July 25.
- Plant protector. H. C. Jones. No. 1,432,339; Oct. 17.
- Plant protector. S. N. Slade. No. 1,434,160; Oct. 31.
- Plant roots, Device for controlling the growth of. G. B. Southard. No. 1,418,841; June 6.
- Plants, Causing fecundation of. W. M. Williams. No. 1,438,803; Dec. 12.
- Plants, Holder for growing. E. Kuebler and O. Niederberger. No. 1,407,664; Feb. 21.
- Planter. E. Bauer. No. 1,430,614; Oct. 3.
- Planter. J. Blue. No. 1,412,913; Apr. 18.
- Planter. L. R. Brantley. No. 1,428,527; Sept. 12.
- Planter. W. N. Denike. No. 1,435,818; Nov. 14.
- Planter. E. E. Englund. No. 1,439,877; Dec. 26.
- Planter. W. A. Ingalls. No. 1,403,325; Jan. 10.
- Planter. L. M. Thompson. No. 1,431,767; Oct. 10.
- Planter and marker, Seed. W. L. Sprowl. No. 1,407,097; Feb. 21.
- Planter attachment, Hand-. R. F. Boop. No. 1,429,601; Dec. 19.
- Planter, Checkrow corn. E. E. Englund. No. 1,432,987; Oct. 24.
- Planter, Corn. C. D. Harness and C. D. Bradshaw. No. 1,420,923; June 27.
- Planter, Cotton. L. H. Kaupke. No. 1,405,037; Jan. 31.
- Planter marking device. H. Jones. No. 1,420,550; June 20.
- Planter, Potato-. T. Davidenia. No. 1,403,739; Jan. 17.
- Planters, Attachment for corn. C. Trost. No. 1,408,547; Mar. 7.
- Planters, Attachment for corn. A. A. Stahl. No. 1,429,700; Sept. 19.
- Planters, Attachment for seed. W. T. Spruell. No. 1,403,456; Jan. 10.
- Planters, Dispensing mechanism for potato. H. B. Sperry. No. 1,410,843; Mar. 28.
- Planters, Dropping device for potato. J. Hist. No. 1,431,659; Oct. 10.
- Planters, Land marker for. E. E. Englund. No. 1,432,986; Oct. 24.
- Planters, Marker for. J. H. Boehme. No. 1,405,480; Feb. 7.
- Planters, Marker for. B. L. Light. No. 1,429,245; Sept. 19.
- Planting machine. F. X. Ratkovic. No. 1,405,866; Feb. 7.
- Planting-machine attachment. N. M. Gabrielson. No. 1,413,398; Apr. 18.
- Planting mechanism. L. E. Waterman. No. 1,434,575; Nov. 7.
- Planting mechanism. C. E. White and G. Carlson. No. 1,420,170; June 20.
- Plaster board. C. R. Birdsey. No. 1,406,967; Feb. 21.
- Plaster board. C. R. Birdsey. No. 1,427,939; Sept. 5.
- Plaster board. C. R. Birdsey. No. 1,428,624; Sept. 12.
- Plaster board, Forming. J. Schumacher. No. 1,418,027; May 30.
- Plaster board, Machine for making. O. L. Routt, G. C. McConnell, and H. L. Glaze. No. 1,432,261; Oct. 17.
- Plaster-board studding. H. H. Burson. No. 1,414,111; Apr. 25.
- Plaster-board support. M. H. Jester. No. 1,423,939; July 25.
- Plaster boards and the like, Clip for. H. H. Burson. No. 1,417,793; May 30.
- Plaster ground. A. Oliver. No. 1,403,520; Jan. 17.
- Plaster, Means for and process of forming locks for. C. A. Smith. No. 1,439,646; Dec. 19.
- Plaster or ointment, Medicinal compound for external use as a. E. P. Kelley. No. 1,414,815; May 2.
- Plaster-receiving board. H. A. Cumfer and A. D. Stewart. No. 1,429,226; Sept. 19.
- Plaster-slab-molding machine. B. J. Cafferata. No. 1,430,885; Oct. 3.
- Plaster support for walls. S. J. Potter. No. 1,423,879; July 25.
- Plaster terminal. L. E. Curtis. No. 1,419,232; June 13.
- Plaster, Zinc-oxide adhesive. O. F. Radcliffe. No. 1,428,495; Sept. 5.
- Plastering of walls, Appliance for throwing mortar for the. T. Moser. No. 1,423,536; July 25.
- Plasters, Device for facilitating the cutting of adhesive. U. S. Boone. No. 1,434,675; Nov. 7.
- Plastic and fibrous material, Method of and apparatus for manufacturing sheets of. I. P. Elliott. No. 1,411,330; Apr. 4.
- Plastic articles, Method and machine for forming impressions in. J. Lapp. No. 1,407,550; Feb. 21.
- Plastic binding and waterproofing material and making same. H. E. Brown and J. H. Stover. No. 1,431,455; Oct. 10.
- Plastic-block mold. E. J. Benson. No. 1,408,685; Mar. 7.
- Plastic blocks, Machine for corrugating. H. R. Straight. No. 1,411,533; Apr. 4.
- Plastic blocks, Machine for corrugating. M. T. Straight. No. 1,411,535; Apr. 4.
- Plastic composition. K. L. Binkley. No. 1,418,905; June 6.
- Plastic composition. W. T. Fels. No. 1,419,665; June 13.
- Plastic composition. J. J. Lemon. No. 1,418,810; June 6.
- Plastic composition. H. H. Pierce. No. 1,404,162; Jan. 17.
- Plastic composition. L. T. Richardson. No. 1,427,911; Sept. 5.
- Plastic composition. W. H. Santen. No. 1,402,969; Jan. 10.
- Plastic composition. E. E. Schumacher. No. 1,422,483; July 11.
- Plastic composition and articles formed therefrom. J. P. A. McCoy. No. 1,425,784; Aug. 15.
- Plastic composition and making same. R. G. Erwin. No. 1,409,088; Mar. 7.
- Plastic composition and producing same. G. M. Formby. No. 1,409,939; Mar. 21.
- Plastic composition for use as a coating for walls of buildings. L. N. Brower and P. Werle. No. 1,416,684; May 23.
- Plastic compositions and products thereof, Making. A. A. Backhaus. No. 1,437,952; Dec. 5.
- Plastic construction and producing same, Cellular. A. C. Heaphy. No. 1,438,238; Dec. 12.
- Plastic, fluid, powdered, granular, or like substances, Molding and/or compacting. P. B. Jagger. No. 1,428,097; Sept. 5.

- Plastic material and producing the same. R. L. Cawood. No. 1,414,254; Apr. 25.
- Plastic material, Key base for. J. O. Fowler. (Reissue.) No. 15,406; July 11.
- Plastic material, Method and means for forming passages in. M. F. Gouverneur. No. 1,413,023; Apr. 18.
- Plastic material, Process and apparatus for applying and shaping. C. S. Dolley. No. 1,430,363; Sept. 26.
- Plastic materials, Machine for extruding. S. Freeman and R. O'Toole. No. 1,440,007; Dec. 26.
- Plastic product. W. O. Snelling. No. 1,430,036; Sept. 26.
- Plastic products, Press for making. A. Burckard. No. 1,436,941; Nov. 28.
- Plastic, semiplastic, or solid material, Machine for cutting ribbons of. H. A. Archibald. No. 1,437,742; Dec. 5.
- Plate and making same, Attachable. F. G. Davison. Nos. 1,425,840-1; Aug. 15.
- Plate and making same, Composite. G. R. Cox. No. 1,437,094; Nov. 28.
- Plate and thread guide, Combination. G. C. L. Tisch. No. 1,422,799; July 11.
- Plate-bending press. J. A. Perony. No. 1,422,779; July 11.
- Plate-bending rolls. T. M. Platt. No. 1,438,058; Dec. 5.
- Plate, Cheek. D. S. Barrows. No. 1,407,978; Feb. 28.
- Plate-clamp-operating tool. O. Roosen and I. Tornberg. No. 1,414,485; May 2.
- Plate envelope. A. P. Hantsch. No. 1,423,420; July 18.
- Plate finishing and cooling machine. R. T. Johnston. No. 1,409,182; Mar. 14.
- Plate, Floor or ceiling. H. A. Vanderbrouk. No. 1,405,465; Feb. 7.
- Plate for dining tables. J. H. Fry. No. 1,440,070; Dec. 26.
- Plate heater. J. L. Scott. No. 1,429,783; Sept. 19.
- Plate holder. H. K. Sandell. No. 1,434,026; Oct. 31.
- Plate holder and indicator therefor. H. F. Waite. No. 1,404,171; Jan. 17.
- Plate, Indicating. A. E. McMahon. No. 1,404,460; Jan. 24.
- Plate lifter. G. Gorman. No. 1,439,885; Dec. 26.
- Plate-mounting equipment. A. F. Osterlined. No. 1,438,717; Dec. 12.
- Plate or receptacle lifter. L. Turco. No. 1,404,669; Jan. 24.
- Plate pack. S. M. Fairchild. No. 1,439,509; Dec. 19.
- Plate-pack adapter. S. M. Fairchild. No. 1,431,445; Oct. 10.
- Plate press, Four-page-width tubular. H. F. Bechman. No. 1,431,454; Oct. 10.
- Plate-securing device. G. C. Hass. No. 1,404,521; Jan. 24.
- Plate, Striking. K. F. Nystrom. No. 1,440,313; Dec. 26.
- Plate, Tie. J. D. Tusar. No. 1,409,044; Mar. 7.
- Plates and ranges, Safety cabinet for gas. A. W. Cheney. No. 1,405,489; Feb. 7.
- Plates and the like, Securing device for. J. A. Armstrong. No. 1,439,682; Dec. 26.
- Plates, etc., Device for drawing up and clamping steel. F. A. Lemich. No. 1,436,967; Nov. 28.
- Plates for flat-bed presses, Mounting for flexible. S. C. Forrester. No. 1,439,808; Dec. 26.
- Plates, Making nickel-plated halfone. E. E. Stafford. No. 1,434,798; Nov. 7.
- Plates, Making porous. A. J. Kloneck. No. 1,403,036; Jan. 10.
- Plates, Process and apparatus for casting bosh. J. Smith. No. 1,438,271; Dec. 12.
- Plates, Separator for storage-battery. G. E. Beck. No. 1,422,815; July 18.
- Plates, such as dental plates and the like, Stamp for thin sheet-metal. F. Hauptmeyer. No. 1,424,406; Aug. 1.
- Plate-tightening device. H. D. Babcock. No. 1,427,893; Sept. 5.
- Plates, Wiping device for engraving. J. W. Jenner. No. 1,440,084; Dec. 26.
- Platen lock. H. F. E. Baeseler. No. 1,426,242; Aug. 15.
- Platen press. K. M. Adler. No. 1,413,699; Apr. 25.
- Platen presses, Feed and delivering mechanism for. E. T. Waters. No. 1,437,030; Nov. 28.
- Platen presses, Paper-feed guide for. H. H. Strait. No. 1,407,100; Feb. 21.
- Platform. J. L. Turner. No. 1,409,800; Mar. 14.
- Platform, Depressible. H. R. Simpson. No. 1,435,087; Nov. 7.
- Platform, Dumping. L. H. Palmer. No. 1,433,644; Oct. 31.
- Platform, Eviscerator's sanitary movable. A. O. Lundell. No. 1,413,673; Apr. 25.
- Platform, Lumber-jack's. L. L. Gregg. No. 1,407,651; Feb. 21.
- Platform, Movable painter's. E. J. Sturm and M. Sturson. No. 1,421,609; July 4.
- Platforms, Level indicator for. G. W. and C. B. King, B. Jacoby, H. E. Roush, and G. Holmes. No. 1,423,529; July 25.
- Plating. G. H. Pinney. No. 1,426,769; Aug. 22.
- Plating electrolyte and making same. Q. Mirino. No. 1,404,156; Jan. 17.
- Plating machine. S. A. Cohen. No. 1,421,912; July 4.
- Platinum and similar metals from their sands and ores, Extraction of. R. Thayer. No. 1,429,378; Sept. 19.
- Platinum substitute in chemical apparatus and other uses and making same, Composition of matter for. F. A. Fahrenwald. No. 1,415,233; May 9.
- Play and ornamental ball. C. E. Barkley. No. 1,438,573; Dec. 12.
- Player roll. O. Peterson. No. 1,420,860; June 27.
- Player rolls, Tab for. R. A. Isenberg. No. 1,410,473; Mar. 21.
- Playing hoop. M. A. McDonald. No. 1,429,681; Sept. 19.
- Plier-joint construction. F. H. Bullard. No. 1,428,357; Sept. 5.
- Plier wrench. P. F. King. No. 1,406,032; Feb. 7.
- Plier wrench. P. F. King. No. 1,438,442; Dec. 12.
- Pliers. A. Cruickshank. No. 1,426,553; Aug. 22.
- Pliers. A. E. Doble. No. 1,409,835; Mar. 14.
- Pliers. F. T. Foehl. No. 1,420,988; June 27.
- Pliers. F. T. Foehl. No. 1,439,664; Dec. 19.
- Pliers. J. N. Jacobson. No. 1,435,131; Nov. 7.
- Pliers. H. H. Jones. No. 1,427,298; Aug. 29.
- Pliers. E. A. Kaufman. No. 1,424,915; Aug. 8.
- Pliers. E. M. Loftus. No. 1,418,312; June 6.
- Pliers. W. D. McCullough. No. 1,428,600; Sept. 12.
- Pliers. F. J. Moran and W. A. Peck. No. 1,420,729; June 27.
- Pliers. F. H. Williams. No. 1,427,668; Aug. 29.
- Pliers, Chain. R. I. Shibiya. No. 1,419,081; June 6.
- Pliers, Combination. R. B. Ferguson. No. 1,428,884; Sept. 12.
- Pliers, Holding clip for. A. L. Riedesel. No. 1,409,971; Mar. 21.
- Pliers, Optician's angling. P. N. Hansen. No. 1,428,029; Sept. 5.
- Pliers, Optician's finger-piece mounting. P. N. Hansen. No. 1,412,519; Apr. 11.
- Pliers, Replaceable knife and jaw for. C. O'Reardon. No. 1,413,769; Apr. 25.
- Pliers, Safety. E. L. Ax. No. 1,434,646; Nov. 7.
- Plotter. W. C. Lineaweaver. No. 1,417,753; May 30.
- Plotting instrument. F. R. Santori. No. 1,419,645; June 13.
- Plow. R. J. Altgelt. Nos. 1,405,087-8; Jan. 31.
- Plow. J. Buchanan. No. 1,409,076; Mar. 7.
- Plow. W. W. Cameron. No. 1,412,918; Apr. 18.
- Plow. W. W. Cameron. No. 1,415,311; May 9.
- Plow. R. C. Caughey. No. 1,427,357; Aug. 29.
- Plow. M. Conti. No. 1,425,451; Aug. 8.
- Plow. M. T. and I. J. Dowdy. No. 1,437,294; Nov. 28.
- Plow. W. C. Hickey. No. 1,410,303; Mar. 21.
- Plow. M. C. Hinkle. No. 1,407,862; Feb. 28.
- Plow. W. D. Knight. No. 1,421,011; June 27.
- Plow. A. Lohberger. No. 1,419,743; June 13.
- Plow. R. Marlow. No. 1,418,156; May 30.
- Plow. C. F. Morris. No. 1,429,365; Sept. 19.
- Plow. L. P. Normandin. No. 1,403,618; Jan. 17.
- Plow. F. Ramsey. No. 1,408,031; Feb. 28.
- Plow. W. T. Tromp. No. 1,436,614; Nov. 21.
- Plow. W. L. Trussell. No. 1,417,643; May 30.
- Plow. R. Whipple. No. 1,416,392; May 16.
- Plow. R. H. Wilson. No. 1,427,141; Aug. 29.
- Plow and packer, Combined. M. J. McCoy. No. 1,412,950; Apr. 18.
- Plow and scraper, Combined. G. A. Buckley. No. 1,409,826; Mar. 14.
- Plow attachment. B. E. Hayes. No. 1,433,614; Oct. 31.
- Plow attachment. W. Nehls and A. Lemke. No. 1,425,409; Aug. 8.
- Plow attachment. J. B. Wallace. No. 1,418,410; June 6.
- Plow, Beet. S. S. Furrer. No. 1,413,019; Apr. 18.
- Plow, Conduit. W. H. Kempton. No. 1,421,250; June 27.
- Plow, Convertible hillside. R. H. Crummett. No. 1,420,526; June 20.
- Plow, Disk. S. C. Attaway. No. 1,421,371; July 4.
- Plow, Disk. J. H. Caldwell. No. 1,404,577; Jan. 24.
- Plow, Disk. S. Yuasa. No. 1,417,221; May 23.
- Plow for tractors, Gang. N. A. Cummings. No. 1,425,947; Aug. 15.
- Plow, Gang. H. M. Sweet. No. 1,438,146; Dec. 5.
- Plow, Hand garden. J. E. Dittmore. No. 1,425,372; Aug. 8.
- Plow hitch. G. O. Hodge. No. 1,426,383; Aug. 22.
- Plow knives, Lubricating hub for circular. J. Delfino. No. 1,410,896; Mar. 28.
- Plow lever. H. A. Ziegenhagen. No. 1,439,048; Dec. 19.
- Plow, Lister. A. D. Gallagher. No. 1,428,543; Sept. 12.
- Plow, Lister. A. S. Krotz. No. 1,413,281; Apr. 18.
- Plow, Lister. A. Pfeiffer. No. 1,438,398; Dec. 12.
- Plow, Lister. W. Wendtland, Sr. No. 1,410,233; Mar. 21.
- Plow, Motor. V. Dutkiewicz and C. Isanibert. No. 1,407,394; Feb. 21.
- Plow, Motor. E. H. Korsmeyer. No. 1,412,308; Apr. 11.
- Plow, Motor. O. Pfanhauser. No. 1,402,648; Jan. 3.
- Plow, Motor. D. Webster. No. 1,413,437; Apr. 18.
- Plow, Motor tractor. E. R. Pelling and V. A. Mattick. No. 1,403,101; Jan. 10.
- Plow, Multiple-share. E. Héé. No. 1,410,917; Mar. 28.
- Plow or cultivator. W. W. White. No. 1,430,608; Oct. 3.
- Plow point. W. O. Douglass. No. 1,420,024; June 20.
- Plowpoint, Excavator. C. O. Anglemeyer and F. E. Perlberg. No. 1,424,750; Aug. 8.
- Plow, Reversible. C. B. Culbertson. No. 1,427,677; Aug. 29.

Alphabetical list of inventions—Continued.

- Plow, Reversible hillside turning. S. Lutes. No. 1,406,569; Feb. 14.
- Plow, Ridging. B. C. Thomson. No. 1,421,109; June 27.
- Plow, Rolling-drum. P. Gravert. No. 1,407,407; Feb. 21.
- Plow, Rotary. C. L. Lilleberg. No. 1,415,663; May 9.
- Plow, Rotary. C. L. Lilleberg. No. 1,437,763; Dec. 5.
- Plowshare. J. C. Bohmker. No. 1,416,937; May 23.
- Plowshare. A. Guenther. No. 1,410,403; Mar. 21.
- Plowshare. J. and M. Hetland. No. 1,425,012; Aug. 8.
- Plowshare, Detachable. J. C. Bohmker. No. 1,439,222; Dec. 19.
- Plowshare-securing means, Detachable. C. T. Ray. No. 1,412,258; Apr. 11.
- Plow, Sidehill. P. Hansmann. No. 1,409,712; Mar. 14.
- Plowstock. W. S. Hiett. No. 1,430,504; Sept. 26.
- Plow, Sulky. C. Kinney. No. 1,420,108; June 20.
- Plow, Tractor. L. Emerson. No. 1,422,350; July 11.
- Plow, Tractor. B. E. Reed and J. E. Clippinger. No. 1,420,576; June 20.
- Plow, Triple-drive tractor. I. Sedgwick. No. 1,436,409; Nov. 21.
- Plow, Under-tree. T. J. Barrow. No. 1,419,102; June 6.
- Plows, Adjustable sole plate for. M. J. Salas. No. 1,414,587; May 2.
- Plows and making same, Chilled moldboard and point for. C. A. Bacon. No. 1,439,937; Dec. 26.
- Plows and the like, Draft coupling for. W. J. Phair. No. 1,433,225; Oct. 24.
- Plows, Attachment for. E. M. Heylman. No. 1,405,033; Jan. 31.
- Plows, Attachment for tractor. G. W. H. Lee. No. 1,410,486; Mar. 21.
- Plows, Attachment for turning. W. S. Lamkin. No. 1,434,899; Nov. 7.
- Plows, Guard for tractor-drawn. R. Whipple. No. 1,413,641; Apr. 25.
- Plows, Hitch for tractor. A. P. McKay. No. 1,436,595; Nov. 21.
- Plows, Hoisting and locking mechanism for. A. M. Schlager. No. 1,429,048; Sept. 12.
- Plows, Lifting device for. A. S. Krotz. No. 1,409,219; Mar. 14.
- Plows, Steering arrangement for disk. A. P. McKay. No. 1,438,772; Dec. 12.
- Plows, Subsoil attachment for. H. H. Colby. No. 1,422,418; July 11.
- Plows, Subsoiler attachment for. J. P. Little. No. 1,427,305; Aug. 29.
- Plug. E. V. Crowell. (Reissue.) No. 15,501; Dec. 5.
- Plug. F. Jackson. No. 1,411,031; Mar. 28.
- Plug and socket contact. B. Raettig. No. 1,418,171; May 30.
- Plug, Antifreezing. L. Wygodsky. No. 1,409,634; Mar. 14.
- Plug, Attachment. H. Catlin. No. 1,417,452; May 23.
- Plug, Closure. F. C. Williams. No. 1,420,899; June 27.
- Plug, Drain. W. Grikscheit. No. 1,423,418; July 18.
- Plug, Drain. W. Grikscheit. No. 1,433,001; Oct. 24.
- Plug gauge, Adjustable. J. Bath. No. 1,429,183; Sept. 12.
- Plug gauge, Expansion-. W. E. Keopple. No. 1,408,808; Mar. 7.
- Plug, Electrical attachment. A. C. Recker. No. 1,425,694; Aug. 15.
- Plug, Electric multiple-connection. C. H. Tomlinson. No. 1,422,241; July 11.
- Plug-in attachment. D. P. and J. F. Williams. No. 1,417,649; May 30.
- Plug, Sanitary cleanout. A. W. Ayling. No. 1,436,331; Nov. 21.
- Plug, Washout. H. Howard. No. 1,408,944; Mar. 7.
- Plumb and level. W. Bengel. No. 1,410,283; Mar. 21.
- Plumb and level, Adjustable. G. L. Parrish and C. A. Cooley. No. 1,413,056; Apr. 18.
- Plumb, Bricklayer's corner and lead. E. C. Landon. No. 1,410,481; Mar. 21.
- Plumber's furnace. J. B. Anderson. No. 1,438,678; Dec. 12.
- Plumber's soil. J. F. Leddy. No. 1,417,253; May 23.
- Plumbing system. F. W. Carlson. No. 1,417,660; May 30.
- Plunger. W. C. Iftiger. No. 1,429,036; Sept. 12.
- Plunger, Constant-pressure. J. Aebi. No. 1,411,148; Mar. 28.
- Plunger drum. A. Johnson. No. 1,420,844; June 27.
- Plunger lifter. F. M. Joslin. No. 1,414,650; May 2.
- Plunger machine, Multiple-. Z. P. Candee. No. 1,435,208; Nov. 14.
- Plungers, Temperature-controlling and lubricating means for mold. G. R. Lott. No. 1,429,372; Dec. 19.
- Ply wood or fibrous compositions, Manufacturing curved forms of. M. Louthead. No. 1,425,113; Aug. 8.
- Ply-wood products, Machine for forming. W. B. Cuppett. No. 1,403,487; Jan. 17.
- Pneumatic action. W. C. Collignon. No. 1,403,591; Jan. 17.
- Pneumatic-action unit. S. Battner. No. 1,420,678; June 27.
- Pneumatic cap. C. Moore. No. 1,426,402; Aug. 22.
- Pneumatic casings, Puncture-proof and blow-out proof device for. D. A. Little and E. F. Marcha. No. 1,414,328; Apr. 25.
- Pneumatic column. L. C. Bayles. No. 1,409,905; Mar. 21.
- Pneumatic cushion. J. J. Halloran. No. 1,409,374; Mar. 14.
- Pneumatic dispatch-tube carrier, Identifying means for. F. S. Leavett and E. A. Staples. No. 1,423,440; July 18.
- Pneumatic drill. C. W. H'Doubler. No. 1,407,176; Feb. 28.
- Pneumatic lifting jack. J. A. Anglada. No. 1,414,718; May 2.
- Pneumatic motor, Double-acting. O. A. Ericson. No. 1,427,794; Sept. 5.
- Pneumatic tools, Air-inlet-valve mechanism for. M. J. Burkel. No. 1,417,136; May 23.
- Pneumatic wheel. J. W. Dixon. No. 1,411,879; Apr. 4.
- Pneumatic wheel. J. W. Dixon. No. 1,431,878; Oct. 10.
- Pocket. I. Bernstein. No. 1,426,539; Aug. 22.
- Pocket. J. L. Kirk. No. 1,423,434; July 18.
- Pocket. P. H. Zendt and E. S. Garis. No. 1,409,809; Mar. 14.
- Pocketbook. C. J. Davis. No. 1,404,278; Jan. 24.
- Pocketbook, Key. L. Kalina. No. 1,436,592; Nov. 21.
- Pocketbook, Lady's. B. Stember. No. 1,434,926; Nov. 7.
- Pocketbook protector. M. J. Palmer. No. 1,423,539; July 25.
- Pocket, Carpenter's nail. M. Ballin. No. 1,409,436; Mar. 14.
- Pocket case. P. H. Welcker. No. 1,414,798; May 2.
- Pocket clip. H. S. Hasselquist. No. 1,406,378; Feb. 14.
- Pocket, Expanding filing. A. Bushnell, Jr. No. 1,403,070; Jan. 10.
- Pocket for overalls, working shirts, and the like, Watch. C. T. Masson. No. 1,421,519; July 4.
- Pocket for wearing apparel. C. R. Wood. No. 1,431,275; Oct. 10.
- Pocket, Garment. J. Aronoff. No. 1,429,996 Sept. 26.
- Pocket guard. G. B. Spear. No. 1,427,499; Aug. 29.
- Pocket implement. E. Blümner. No. 1,438,515; Dec. 12.
- Pocketknife. F. Anover. No. 1,403,281; Jan. 10.
- Pocketknife. P. W. Hallvarson. No. 1,407,652; Feb. 21.
- Pocketknife. J. Johnson. No. 1,422,363; July 11.
- Pocketknife. A. J. Tanner. No. 1,413,633; Apr. 25.
- Pocketknife. F. Vincent. No. 1,411,649; Apr. 4.
- Pocketknife and nail clip, Combination. A. F. Blanchard. No. 1,424,551; Aug. 1.
- Pocketknife, Self-opening. H. F. Shields. No. 1,412,373; Apr. 11.
- Pocket protector. C. K. Miltimore. No. 1,409,306; Mar. 14.
- Pocket, Safety overall. A. S. Blowers. No. 1,415,299; May 9.
- Pocket, Safety watch. F. L. Sterchele. No. 1,413,806; Apr. 25.
- Pockets, Article holder for. P. S. Zontos. No. 1,424,970; Aug. 8.
- Point blade switch, Automatic. A. Rebori. No. 1,412,136; Apr. 11.
- Poke, Animal. P. Barney. No. 1,423,706; July 25.
- Poke, Animal. G. W. Knox. No. 1,428,038; Sept. 5.
- Poke, Animal. C. A. Whitehorn. No. 1,404,415; Jan. 24.
- Poke, Cattle. C. F. Schneider. No. 1,423,362; July 18.
- Poker, Automatic. T. M. Haugh, L. C. Schilling, and J. W. Finch. No. 1,422,442; July 11.
- Polarity reverser. E. J. Balluff. No. 1,431,453; Oct. 10.
- Pole anchor. J. M. Welch. No. 1,438,074; Dec. 5.
- Pole, Extensible. C. J. Carlson and A. W. Larsen. No. 1,415,145; May 9.
- Pole machine. D. B. Hanna. No. 1,410,751; Mar. 28.
- Pole-making machine. D. B. Hanna. No. 1,410,750; Mar. 28.
- Pole-making machine. J. E. Moody. No. 1,410,705; Mar. 28.
- Pole, Metal. M. Lachman. No. 1,434,126; Oct. 31.
- Pole mounting. R. G. Williams. No. 1,430,136; Sept. 26.
- Pole or post base mold. M. Milosevich. No. 1,435,127; Nov. 7.
- Pole-puncturing machine. J. E. Lynch. No. 1,424,498; Aug. 1.
- Pole raising and straightening device. L. S. Miller, G. Sensabaugh, and W. D. Shelby. No. 1,403,337; Jan. 10.
- Pole-setting device. R. R. Daniels. No. 1,410,380; Mar. 21.
- Pole splicer and tree-limb support. W. J. W. Orr. No. 1,439,974; Dec. 26.
- Pole, Tent. V. M. Ebbs. No. 1,407,135; Feb. 21.
- Poles, Device for use in climbing. W. L. Horning. No. 1,419,563; June 13.
- Poles, masts, etc., which are set in the ground and have been damaged by weather influences, Manufacture of reinforcements for wooden. F. Jaecle and P. Mehlhorn. No. 1,416,641; May 16.
- Polish. W. Dangerfield. No. 1,402,058; Jan. 3.
- Polish, Cabinet. E. H. Shank. No. 1,411,193; Mar. 28.
- Polish for metallic and other surfaces, Liquid. J. A. Palmer. No. 1,425,046; Aug. 8.
- Polish for varnished and painted surfaces. F. E. Abbott. No. 1,411,550; Apr. 4.
- Polish, Furniture. R. A. Klohn. No. 1,438,118; Dec. 5.
- Polish, Furniture and automobile body. T. G. Lomax. No. 1,435,717; Nov. 14.
- Polish, Liquid automobile and furniture. G. H. Herbert. No. 1,411,353; Apr. 4.
- Polish, Manufacturing liquid. L. Nekritz. No. 1,431,026; Oct. 3.
- Polish, Metal. G. W. King. No. 1,434,124; Oct. 31.
- Polish, Stove. R. Faust. No. 1,403,758; Jan. 17.
- Polisher. G. G. Bush. No. 1,424,448; Aug. 1.
- Polisher, Floor. M. E. Lipscomb. No. 1,417,673; May 30.

- Polishing apparatus. B. C. Skinner. No. 1,420,062; June 20.
- Polishing composition. H. H. Haynes. No. 1,410,471; Mar. 21.
- Polishing composition. J. W. McCaughey. No. 1,407,074; Feb. 21.
- Polishing composition. W. Roth. No. 1,426,107; Aug. 15.
- Polishing composition. F. M. Taylor. No. 1,410,041; Mar. 21.
- Polishing composition or mixture. J. M. Inouye. No. 1,415,570; May 9.
- Polishing device. P. F. Degenkolb. No. 1,404,839; Jan. 31.
- Polishing device. A. Matrazzo. No. 1,405,308; Jan. 31.
- Polishing holder. C. J. Diesel and W. C. Jackson. No. 1,430,063; Sept. 26.
- Polishing machine. C. T. Beggs. No. 1,425,829; Aug. 15.
- Polishing machine. G. A. Carlson. No. 1,430,624; Oct. 3.
- Polishing machine. E. N. Maul. No. 1,418,666; June 6.
- Polishing machine. E. P. McClure. No. 1,425,666; Aug. 15.
- Polishing machine. D. F. McGovern. No. 1,411,923; Apr. 4.
- Polishing machine. L. W. Moulton. No. 1,412,365; Apr. 11.
- Polishing machine. V. Puc. No. 1,415,478; May 9.
- Polishing plane surfaces. Apparatus for. J. M. Christine. No. 1,417,593; May 30.
- Polishing table. M. W. Obermiller. No. 1,415,895; May 16.
- Polishing wheel. D. F. McGovern. No. 1,416,729; May 23.
- Polishing wheels. Friction heating apparatus for. J. Puls. No. 1,417,202; May 23.
- Polyphase controlling device. E. I. Deutsch. No. 1,425,755; Aug. 15.
- Pompons and machine therefor. Trimming. C. Harwood. No. 1,430,737; Oct. 3.
- Pool and library table. Combined. J. D. Davis. No. 1,410,171; Mar. 21.
- Pool, Swimming. H. D. Carter. No. 1,403,009; Jan. 10.
- Pool tables. Attachment for. J. H. McCool. No. 1,427,691; Aug. 29.
- Pop-corn-candy mixer. A. Bishop. No. 1,404,338; Jan. 24.
- Pop-corn mold. N. B. Post. No. 1,421,555; July 4.
- Porch Window. F. B. Fondiller. No. 1,402,410; Jan. 3.
- Porosity. Apparatus for indicating. C. Buberl. No. 1,421,903; July 4.
- Port light. C. H. Knobbs. No. 1,412,409; Apr. 11.
- Portable closet. H. W. La Munyon. No. 1,425,391; Aug. 8.
- Portable elevator. W. E. Boehck. No. 1,409,906; Mar. 21.
- Portable furnace. H. Edrington. No. 1,408,571; Mar. 7.
- Portable furnace. W. Mayor. No. 1,408,624; Mar. 7.
- Portable gate. H. A. Burgess. No. 1,419,013; June 6.
- Portable heater. L. O. Koch. No. 1,422,449; July 11.
- Portage device. G. More. No. 1,428,180; Sept. 5.
- Portfolio. C. H. Mills. No. 1,403,806; Jan. 17.
- Porthole closure. M. D. Dominguez. No. 1,404,941; Jan. 31.
- Portière rod. C. E. Galbreath. No. 1,425,247; Aug. 8.
- Portioning mechanism. L. L. Knox. No. 1,407,759; Feb. 28.
- Portioning mechanism. J. F. Wineland. No. 1,404,172; Jan. 17.
- Portraits and photographs. Mounting for. J. Marcelino y Diaz. No. 1,414,656; May 2.
- Position indicator. F. J. Hess. No. 1,431,797; Oct. 10.
- Position indicator. A. M. Jacobs. No. 1,411,662; Apr. 4.
- Post: *See*—
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| Advertising post. | Line-supporting post. |
| Automobile steering post. | Metallic fencepost. |
| Back-up post. | Seat post. |
| Battery post. | Self-righting post. |
| Binding post. | Sound post. |
| Bumping post. | Tool post. |
| Fence post. | Traffic post. |
| Inner-tube-stripping post. | Yard post. |
- Post. J. W. Stalder. No. 1,416,586; May 16.
- Post and brush puller. S. O. Bryant. No. 1,427,576; Aug. 29.
- Post construction. Cell. J. C. Harris. No. 1,404,024; Jan. 17.
- Post preserver. J. E. Bitting. No. 1,419,108; June 6.
- Post step or bracket. J. N. Duncan. No. 1,420,825; June 27.
- Poster. Patch. C. L. Scovil. No. 1,414,588; May 2.
- Posts, poles, or rods. Mounting naps or caps for. A. J. Schultz. No. 1,422,226; July 11.
- Posthole digger. M. M. Arndt. No. 1,428,202; Sept. 5.
- Postholes. Machine for boring fence. E. L. Deckerd. No. 1,412,343; Apr. 11.
- Pot: *See*—
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| Brake controlling dash pot. | Fire pot. |
| Coffee pot. | Melting pot. |
| Combination pot. | Metal pot. |
| Dash pot. | Tin pot. |
| Fertilizer pot. | |
- Pot cover. E. F. Ritter. No. 1,436,606; Nov. 21.
- Pot cover. A. P. and C. R. Young. No. 1,414,540; May 2.
- Pot-handling machine. C. W. McLaughlin and H. F. Rodgers. No. 1,413,176; Apr. 18.
- Pots, Pusher for tin. J. Breen. No. 1,439,860; Dec. 26.
- Potash from cement mixtures. Recovery of. D. D. Jackson. No. 1,415,572; May 9.
- Potash from distillery waste by burning the same. Obtaining. C. Haner, Jr. No. 1,403,160; Jan. 10.
- Potash from saline deposits and brines. Extracting. E. P. Stevenson. No. 1,415,204; May 9.
- Potash, Recovering. E. P. Stevenson. No. 1,415,203; May 9.
- Potash values from potassiferous materials. Obtaining. E. O. Rhodes and R. C. Haff. No. 1,411,518; Apr. 4.
- Potassium and aluminum from feldspar. Recovering. C. M. Brown. No. 1,402,831; Jan. 10.
- Potassium chloride from brine. Recovering. J. L. Silsbee. No. 1,432,796; Oct. 24.
- Potassium chloride. Obtaining. F. S. Moon. No. 1,402,173; Jan. 3.
- Potassium chloride. Production of. M. Shoeld. No. 1,402,973; Jan. 10.
- Potassium compounds. Extraction of. W. Glaeser. No. 1,422,848; July 18.
- Potassium compounds. Producing. C. Ellis. No. 1,435,593; Nov. 14.
- Potassium ferrocyanide. potassium cyanide, potassium carbonate, and related products. Producing. S. Weinberg. No. 1,405,371; Jan. 31.
- Potassium from natural potassium compounds. Obtaining. D. D. Jackson. No. 1,417,919; May 30.
- Potassium salts from bitters. Extracting. I. F. Harlow. No. 1,422,571; July 11.
- Potassium sulphate and hydrochlorate acid. Manufacture of. P. Comment. No. 1,417,887; May 30.
- Potassium values from fumes. Recovery of. J. Gayley. No. 1,414,353; May 2.
- Potato cleaning, sorting, and loading apparatus. A. Kanengieter. No. 1,431,814; Oct. 10.
- Potato cutter. H. L. Beucier. No. 1,422,731; July 11.
- Potato cutter. O. E. Floberg. No. 1,419,036; June 6.
- Potato cutter. H. J. Hanson. No. 1,424,474; Aug. 1.
- Potato cutter. P. Israelson. No. 1,420,843; June 27.
- Potato cutter. J. T. Knaus. No. 1,431,310; Oct. 10.
- Potato cutter. Seed-. W. F. Fintel. No. 1,435,828; Nov. 14.
- Potato cutter. Seed-. E. E. Lawrence. No. 1,438,925; Dec. 12.
- Potato cutter. Seed-. J. S. Marquez. No. 1,417,273; May 23.
- Potato cutter. Seed-. G. F. Sheldon. No. 1,432,420; Oct. 17.
- Potato cutter and grader. Seed-. C. M. Knutson. No. 1,438,922; Dec. 12.
- Potato-cutting machine. J. Bornholdt. No. 1,432,152; Oct. 17.
- Potato-cutting machine. Seed-. G. A. Bentley. No. 1,411,832; Apr. 4.
- Potato digger. F. A. Yantz. No. 1,427,145; Aug. 29.
- Potato diggers. Potato carrier for. W. Broecker. No. 1,425,745; Aug. 15.
- Potato-digging machine. R. Gittins. No. 1,411,966; Apr. 4.
- Potato gatherer. N. Krupa. No. 1,411,361; Apr. 4.
- Potato-grading machine. J. Thompson. No. 1,431,270; Oct. 10.
- Potato-harvesting machine. M. D. J. G. Bardowick. No. 1,419,800; June 13.
- Potato loader. B. O. Cuddigan. No. 1,405,297; Jan. 31.
- Potato peeler. W. W. Villeneuve and R. C. Fischer. No. 1,436,124; Nov. 21.
- Potato peeling and cleaning machine. R. Norton. No. 1,436,519; Nov. 21.
- Potato-peeling apparatus. H. J. Capelman and R. Hayhurst. No. 1,418,230; May 30.
- Potato-peeling machine. H. W. Hodgdon and P. F. Green. No. 1,422,708; July 11.
- Potato picker. A. F. Zabel and R. V. Townsend. No. 1,424,868; Aug. 8.
- Potato planter. L. A. Aspinwall. No. 1,411,897; Apr. 4.
- Potato slicer and shredder. R. D. Maine. No. 1,416,853; May 23.
- Potato-seed-cutting machine. E. L. Johnson. No. 1,438,496; Dec. 12.
- Potato sorter or screening apparatus. H. Madson. No. 1,430,664; Oct. 3.
- Potato-vine cutter. Sweet. A. B. Purdon. No. 1,426,906; Aug. 22.
- Potatoes and its manufacture. Soil mixture for a forced growing of. J. Husson. No. 1,417,248; May 23.
- Potatoes and the like. Apparatus for peeling. G. W. Gregory. No. 1,430,898; Oct. 3.
- Potatoes and the like. Apparatus for planting. W. Lipitz. No. 1,415,937; May 16.
- Potatoes. Grading and storing machine for. N. J. Oak. No. 1,425,791; Aug. 15.
- Potatoes. Machine for cutting seed. J. F. Sales. No. 1,410,838; Mar. 28.
- Potatoes. Machine for digging. O. L. Zeuthen. No. 1,429,010; Sept. 12.
- Potatoes. roofs, and fruit. Grader for. R. C. Pessell. No. 1,438,783; Dec. 12.
- Pottery and other ware. Kiln for firing. C. F. Bailey. No. 1,434,730; Nov. 7.
- Pottery. Apparatus for the manufacture of. E. Brookes. No. 1,417,968; May 30.

Alphabetical list of inventions—Continued.

- Pottery, Decalcomania and drying machine for. H. Bogaty and J. L. Buckley. No. 1,414,856; May 2.
- Pottery kiln, Gas fired. A. M. Duckham. No. 1,423,408; July 18.
- Pottery manufacture, Drying rack for. C. L. Sebring. No. 1,410,275; Mar. 21.
- Pottery ware, Apparatus for the manufacture of. R. H. Wainford and C. H. Darling. No. 1,408,663; Mar. 7.
- Poultry-carrying body. W. D. Bixler. No. 1,432,439; Oct. 17.
- Poultry decapitator. L. Suther. No. 1,427,562; Aug. 29.
- Poultry drinking fountain. A. Malouf. No. 1,439,251; Dec. 19.
- Poultry feeder. G. P. Westenberger and P. E. Parker. No. 1,404,251; Jan. 24.
- Poultry-feeding device. M. Liggett. No. 1,431,472; Oct. 10.
- Poultry fountain. F. Pagel. No. 1,402,953; Jan. 10.
- Poultry, Hover for. A. L. Ball. No. 1,417,225; May 23.
- Poultry holder. B. J. Nailor. No. 1,438,659; Dec. 12.
- Pounding block, Household. E. H. Rehn and E. A. Tousley. No. 1,420,577; June 20.
- Powder, Blasting. P. N. Stankovitch. No. 1,412,319; Apr. 11.
- Powder, Bleaching. E. T. Ladd and E. C. Speiden. No. 1,421,503; July 4.
- Powder box. H. T. and P. H. White. No. 1,437,210; Nov. 28.
- Powder, Cleaning. J. W. Smith. No. 1,416,240; May 16.
- Powder composition, Slow-burning black-. J. P. Gray. No. 1,438,759; Dec. 12.
- Powder container. S. S. Booty. No. 1,418,520; June 6.
- Powder container. H. Slaiger. No. 1,425,909; Aug. 15.
- Powder dispenser. F. McLaughlin. No. 1,416,043; May 16.
- Powder distributor. C. Brown. No. 1,422,252; July 11.
- Powder divider. L. S. Simmons. No. 1,406,504; Feb. 14.
- Powder insecticides upon trees, plants, etc., Apparatus for spreading or distributing. F. Howles. No. 1,411,498; Apr. 4.
- Powder, Producing smokeless. T. L. Davis. No. 1,439,505; Dec. 19.
- Powder puff. E. J. Boyler. No. 1,406,439; Feb. 14.
- Powder puff. V. Guinzburg. No. 1,439,734; Dec. 26.
- Powder puff. W. Krohn. No. 1,424,649; Aug. 1.
- Powder puff. M. Menkin. No. 1,437,473; Dec. 5.
- Powder puff. A. T. Moeller. No. 1,438,850; Dec. 12.
- Powder puff. J. P. Steen and W. W. Oram. No. 1,436,545; Nov. 21.
- Powder puff. M. W. and A. E. Willson. No. 1,423,745; July 25.
- Powder puff, Magazine. M. Gasset. No. 1,409,370; Mar. 14.
- Powder, Treating pyro smokeless. R. G. Woodbridge. No. 1,439,656; Dec. 19.
- Powders, Apparatus for washing insoluble. P. W. Prutzman. No. 1,426,099; Aug. 15.
- Powders, Machine for measuring and wrapping. G. Kneitz. No. 1,434,248; Oct. 31.
- Power-actuated pneumatic tool. B. Seaboldt and H. C. Brown. No. 1,402,727; Jan. 3.
- Power agitator. R. G. Lowe. No. 1,413,672; Apr. 25.
- Power and light system, Automatic electric. L. B. Williams. No. 1,403,216; Jan. 10.
- Power application. B. L. Beebe. No. 1,429,122; Sept. 12.
- Power attachment. G. R. Nelson. No. 1,428,651; Sept. 12.
- Power cable-reeling mechanism for self-propelled machines. J. S. Townsend. No. 1,423,889; July 25.
- Power consumption of machines, Device for measuring and recording the. M. Rockstroh. No. 1,429,165; Sept. 12.
- Power cut-out safety device, Electrically-controlled. G. Galpin and D. H. Baer. No. 1,433,809; Oct. 31.
- Power-developing apparatus. A. T. Kasley. No. 1,427,108; Aug. 29.
- Power-developing apparatus. E. W. McCallister. No. 1,402,875; Jan. 10.
- Power-driven machines, Automatic attachment for. A. R. Carmichael. No. 1,431,723; Oct. 10.
- Power-driven machines, Combined reversing gear and belt shifter and tightener mechanism for. W. H. Sumbling. No. 1,417,699; May 30.
- Power-driven machines, Starting and stopping mechanism for. M. Hemleb. No. 1,409,444; Mar. 14.
- Power from the surf, Method of and apparatus for obtaining. W. S. Scott. No. 1,418,680; June 6.
- Power generating and transmitting means. M. A. Flach. No. 1,438,702; Dec. 12.
- Power-generating apparatus, Fan for. C. Seymour. No. 1,434,916; Nov. 7.
- Power-generating system. J. M. Philbrook. No. 1,416,867; May 23.
- Power generator. O. H. Parsons. No. 1,403,912; Jan. 17.
- Power generator, Circular type of. A. E. Reed. No. 1,429,971; Sept. 26.
- Power generator, Pneumatic. S. S. Cramer. No. 1,418,238; May 30.
- Power generator, Pneumatic. S. S. Cramer. No. 1,431,907; Oct. 10.
- Power head. P. A. Myers. No. 1,437,988; Dec. 5.
- Power jack. W. P. Reall. No. 1,436,565; Nov. 21.
- Power jack. F. D. Hoffman. No. 1,414,876; May 2.
- Power jack, Electric. J. M. Crum. No. 1,423,834; July 25.
- Power-lift mechanism, Wheel-operated. R. J. Altgelt. No. 1,434,978; Nov. 7.
- Power-lift sweep rake. C. R. Davis. No. 1,404,010; Jan. 17.
- Power machine, Rotary. J. F. Thomas. No. 1,402,113; Jan. 3.
- Power mechanism, Engine. J. R. Etter. No. 1,404,017; Jan. 17.
- Power, Mechanism for transmitting hand and motor. A. Bremberg. No. 1,409,821; Mar. 14.
- Power-mechanism trip device. I. T. Verdin. No. 1,429,468; Sept. 19.
- Power, Method and apparatus for generating. A. T. Kasley. No. 1,419,267; June 13.
- Power-net roller. R. A. Gaertner. No. 1,413,467; Apr. 18.
- Power plant. W. P. Butusov. No. 1,423,514; July 25.
- Power plant. T. L. Cowles. No. 1,402,481; Jan. 3.
- Power plant. J. M. Lea. No. 1,409,736; Mar. 14.
- Power plant, Steam. H. W. Bell. No. 1,425,629; Aug. 15.
- Power plant, Tidewater. D. Damiano. No. 1,438,812; Dec. 12.
- Power press for tile, mosaics, and the like. D. Crossley. No. 1,423,401; July 13.
- Power press, Hand-. J. S. Townsend. No. 1,431,996; Oct. 17.
- Power presses, Guard for. J. E. Phillips. No. 1,418,327; June 6.
- Power presses, Guard for. W. Woelfel. No. 1,405,957; Feb. 7.
- Power propulsion device. M. C. South. No. 1,422,384; July 11.
- Power pumping unit. C. O. Rogers. No. 1,433,479; Oct. 24.
- Power shafts, Transmission unit for. J. C. Snyder. No. 1,413,943; Apr. 25.
- Power shovel. H. L. Doering. No. 1,438,752; Dec. 12.
- Power system. F. O. Hartman. No. 1,424,404; Aug. 1.
- Power take-off. D. H. Gruver. No. 1,421,214; June 27.
- Power-take-off apparatus. C. S. Pennington. No. 1,403,913; Jan. 17.
- Power, Tide. F. Baehn. No. 1,407,623; Feb. 21.
- Power transmission. T. C. Brandon. No. 1,418,517; June 6.
- Power transmission. C. G. Branstrator. No. 1,426,035; Aug. 15.
- Power transmission. H. C. Ford. No. 1,415,164; May 9.
- Power transmission. C. Lloyd. No. 1,402,626; Jan. 3.
- Power transmission. H. H. Vaughan. No. 1,409,319; Mar. 14.
- Power transmission and control. E. M. Fraser. No. 1,416,273; May 16.
- Power transmission and electric braking. A. F. Batchelder. No. 1,421,894; July 4.
- Power transmission and electric braking. F. H. Pritchard. No. 1,421,828; July 4.
- Power transmission and mechanism therefor. H. Enard. No. 1,417,894; May 30.
- Power transmission and regenerative braking, Electrical system of. C. J. Axtell. No. 1,413,091; Apr. 18.
- Power-transmission apparatus. W. C. Reed. No. 1,421,565; July 4.
- Power-transmission apparatus, Electromagnetic. R. W. Van Norden. No. 1,422,243; July 11.
- Power transmission apparatus, Fluid. J. H. Bair. No. 1,423,386; July 18.
- Power-transmission appliance. P. J. Rooney. No. 1,415,120; May 9.
- Power-transmission belt gearing. H. Laughton. No. 1,433,958; Oct. 31.
- Power-transmission devices, Variable-speed-change mechanism of. K. M. Trowbridge. No. 1,407,047; Feb. 21.
- Power transmission, Epicyclic-. L. R. Buckendale. No. 1,424,446; Aug. 1.
- Power transmission, Flexible. B. Garrison. No. 1,428,586; Sept. 12.
- Power-transmission gear or drive, Gradually-variable. J. W. and E. A. Tygard. No. 1,428,999; Sept. 12.
- Power-transmission means. A. F. Beitzel and B. D. Weikert. No. 1,405,479; Feb. 7.
- Power-transmission means. F. G. White. No. 1,437,373; Nov. 28.
- Power-transmission mechanism. W. E. Bock. No. 1,416,163; May 16.
- Power-transmission mechanism. L. A. Carter. No. 1,414,622; May 2.
- Power transmission mechanism. R. T. Cooke. No. 1,422,929; July 18.
- Power-transmission mechanism. J. de Martino. No. 1,431,781; Oct. 10.
- Power-transmission mechanism. W. Fels. No. 1,435,596; Nov. 14.
- Power-transmission mechanism. J. I. Mays. No. 1,404,628; Jan. 24.
- Power-transmission mechanism. J. L. Mays. No. 1,414,479; May 2.
- Power transmission mechanism. M. E. McCaslin. No. 1,402,627; Jan. 3.
- Power-transmission mechanism. W. H. Voss. No. 1,438,150; Dec. 5.
- Power-transmission mechanism. F. Wels. No. 1,429,815; Sept. 19.

- Power-transmission mechanism. W. I. Wheeler. No. 1,422,507; July 11.
- Power-transmission mechanism. W. I. Wheeler. No. 1,422,509; July 11.
- Power-transmission mechanism. C. C. Williams. No. 1,424,542; Aug. 1.
- Power transmitter. A. H. De Voe. No. 1,401,967; Jan. 3.
- Power transmitter. I. F. Webb. No. 1,433,318; Oct. 24.
- Power-transmitting apparatus. J. V. Clary. No. 1,409,080; Mar. 7.
- Power-transmitting apparatus. G. A. Crane. No. 1,406,444; Feb. 14.
- Power-transmitting device. R. Z. Farmer. No. 1,416,182; May 16.
- Power-transmitting device. H. V. Lough. No. 1,409,222; Mar. 14.
- Power-transmitting device. T. J. Weeks. No. 1,403,880; Jan. 17.
- Power-transmitting device, Portable. W. J. Lindecker. No. 1,415,460; May 9.
- Power-transmitting element, Universal. M. R. Karge. No. 1,429,146; Sept. 12.
- Power-transmitting mechanism. A. F. Anderson. No. 1,405,382; Feb. 7.
- Power-transmitting mechanism. E. H. Belden. No. 1,421,761; July 4.
- Power-transmitting mechanism. J. J. Tokheim. No. 1,426,843; Aug. 22.
- Power-transmitting mechanism, Reduction and multi-stroke. C. Reineke. No. 1,411,517; Apr. 4.
- Power-transmitting mechanism, Speed-producing. B. B. Phillips. No. 1,414,894; May 2.
- Power-transmitting unit. C. C. Cleland. No. 1,430,627; Oct. 3.
- Power wheel, Water-current. H. Gawley. No. 1,432,327; Oct. 17.
- Power wrench. M. Roberts. No. 1,437,017; Nov. 28.
- Precious metals, Torch for melting. S. W. Hoke. No. 1,438,999; Dec. 19.
- Precipitator, Self-cleaning. M. P. Laughlin. No. 1,412,248; Apr. 11.
- Precision instrument. G. E. Giambiasi. No. 1,415,627; May 9.
- Preheater. R. W. Wiederwax. No. 1,402,331; Jan. 3.
- Preparation for the treatment of pyorrhea. C. W. Archer. No. 1,433,979; Oct. 31.
- Preparation of a metallic jointing compound. H. Burrows. No. 1,420,908; June 27.
- Preserve pots, Closing device for. A. Bott. No. 1,402,916; Jan. 10.
- Preserving comestibles. P. W. Petersen. Nos. 1,420,739-40; June 27.
- Preserving food, Apparatus for. E. M. Frankel and K. G. Falk. No. 1,418,638; June 6.
- Preserving in the fresh condition organic matters, and particularly meat and fish. L. A. Cholet. No. 1,418,233; May 30.
- Preserving perishable products, Apparatus for. G. L. A. Friedrichs. No. 1,405,775; Feb. 7.
- Preserving perishable substances, Apparatus and method for. H. B. Cox. No. 1,418,777; June 6.
- Preserves, Can for. J. A. Pickens. No. 1,428,705; Sept. 12.
- Press: See—
- Arbor press.
- Baling press.
- Bending press.
- Bottle-label press.
- Broom press.
- Ceramic press.
- Cheese press.
- Cider press.
- Continuous press.
- Cotton press.
- Die press.
- Die and seal press.
- Dough press.
- Drawing press.
- Drill press.
- Embossing press.
- File press.
- Filter press.
- Flat-bed printing press.
- Forging press.
- Fruit press.
- Garment press.
- Garment-gloss-eliminating press.
- Hat-machine press.
- Hay press.
- Hydraulic press.
- Lapping press.
- Lead-cable-covering press.
- Leather press.
- Meat shaper and press.
- Molding press.
- Multiform printing press.
- Necktie press.
- Oil press.
- Paper-bag press.
- Plate-bending press.
- Platen press.
- Power press.
- Printing press.
- Proof and transfer press.
- Punch press.
- Revolving press.
- Rotary photogravure press.
- Round-bale cotton press.
- Seal press.
- Sole-molding press.
- Swaging press.
- Tile press.
- Tobacco press.
- Toe-plate press.
- Toggle press.
- Trousers press.
- Upholstering press.
- Vulcanizing press.
- Web-printing press.
- Wine press.
- Press. W. Klocke. No. 1,435,532; Nov. 14.
- Press. C. L. Knott. No. 1,416,721; May 23.
- Press. R. E. Manley. No. 1,437,943; Dec. 5.
- Press. S. B. Minnich. No. 1,407,162; Feb. 21.
- Press. L. Perotti. No. 1,415,611; May 9.
- Press. O. Schlaupitz. No. 1,426,607; Aug. 22.
- Press. L. Schull. No. 1,437,024; Nov. 28.
- Press. P. A. Seewagen. No. 1,417,417; May 23.
- Press button. H. Prym. No. 1,439,326; Dec. 19.
- Press feeding mechanism. W. H. Needham. No. 1,422,605; July 11.
- Press guard. A. W. Hordern. No. 1,439,818; Dec. 26.
- Press guard. G. E. Worth. No. 1,413,370; Apr. 18.
- Press iron, Electric. A. J. Shirk and S. Cohen. Nos. 1,421,587-9; July 4.
- Press iron, Electric. A. J. Shirk and S. Cohen. No. 1,426,015; Aug. 15.
- Press or the like. W. Klocke. No. 1,433,627; Oct. 31.
- Pressed steel wheel. J. Ledwinka. No. 1,423,229; July 18.
- Presser foot, Electrically-heated. H. E. Rudolph. No. 1,406,760; Feb. 14.
- Presser-foot lock. F. E. Valois. No. 1,418,750; June 6.
- Presser-foot, Seam-guiding. G. F. Egan. No. 1,427,197; Aug. 29.
- Presser rollers, Spring-regulating device for. G. C. Hosch and A. C. Owen. No. 1,428,372; Sept. 5.
- Presser wheel. F. F. Witkus. No. 1,407,183; Feb. 21.
- Pressing apparatus. F. Lowenstein. No. 1,411,638; Apr. 4.
- Pressing device. H. A. Elliott. No. 1,425,460; Aug. 8.
- Pressing element. W. H. Berwick. No. 1,414,007; Apr. 25.
- Pressing machine. F. J. Couch. No. 1,429,409; Sept. 19.
- Pressing machine. S. Friedman. No. 1,429,865; Sept. 19.
- Pressing machine. L. Hoffman. No. 1,404,859; Jan. 31.
- Pressing machine. H. C. Hoting. No. 1,416,829; May 23.
- Pressing machine. J. Saltzman and W. C. Veitz. No. 1,438,556; Dec. 12.
- Pressing machine, Clothes-. J. Fiskow. No. 1,410,095; Mar. 21.
- Pressing machine, Shirt-. C. L. Braley. No. 1,403,838; Jan. 17.
- Pressing machines, Guard for leather-. J. W. Herkel and J. D. McCoy. No. 1,432,857; Oct. 24.
- Pressing machines, Locking device for. E. E. Reich. No. 1,425,695; Aug. 15.
- Pressing tool, Hand-operated. H. C. Lewis. No. 1,433,389; Oct. 24.
- Presses, Attachment for punch. H. C. La Ganke and M. J. Tamblin. No. 1,408,894; Mar. 7.
- Presses, Automatic feeder for. P. W. Barker. No. 1,422,914; July 18.
- Presses, Auxiliary sheet gauge for platen. A. Danziger. No. 1,423,835; July 25.
- Presses, Delivery attachment for. C. O. Ericson. No. 1,439,807; Dec. 26.
- Presses, Feed mechanism for. J. M. Pierson. No. 1,411,299; Apr. 4.
- Presses, Locking device for pressure pads of double-acting power. M. Balcker. No. 1,409,149; Mar. 14.
- Presses, Releasable fingers for offset. F. F. Richards. No. 1,424,260; Aug. 1.
- Presses, Safety device for. M. A. Possons. No. 1,417,346; May 23.
- Presses, Safety device for. D. M. Robinson, jr. No. 1,431,759; Oct. 10.
- Presses, Safety device for platen. H. Weibezahl. No. 1,410,433; Mar. 21.
- Presses, Safety device for slide-operating mechanism in. W. Klocke. No. 1,407,870; Feb. 28.
- Presses, Starting and stopping mechanism for. W. C. Stewart. No. 1,429,302; Sept. 19.
- Presses, Suspension thrust-resisting attachment for. W. A. Jennings. No. 1,417,997; May 30.
- Pressure controller or instrument. E. F. Mills. No. 1,430,098; Sept. 26.
- Pressure-controlling means. F. M. Duncan. No. 1,408,696; Mar. 7.
- Pressure detector. G. E. Pendergast. No. 1,408,221; Feb. 28.
- Pressure distillation. E. M. Clark. No. 1,410,797; Mar. 28.
- Pressure draft gauge. W. Kemp. No. 1,423,565; July 25.
- Pressure-fluid tool. G. H. Gilman. No. 1,409,703; Mar. 14.
- Pressure-gas holder. A. F. Bridge. No. 1,426,145; Aug. 15.
- Pressure gauge. A. E. Cutler. No. 1,416,794; May 23.
- Pressure gauge. Z. R. Della Veneria. No. 1,437,728; Dec. 5.
- Pressure gauge. C. Gabel. No. 1,414,121; Apr. 25.
- Pressure gauge. P. Gaiser. No. 1,414,122; Apr. 25.
- Pressure gauge. W. P. Hammond. No. 1,437,516; Dec. 5.
- Pressure gauge. H. E. Harder. No. 1,421,774; July 4.
- Pressure gauge. R. Ingham. No. 1,414,133; Apr. 25.
- Pressure gauge. A. S. Marchus. No. 1,430,174; Sept. 26.
- Pressure gauge. E. F. Mills. No. 1,430,097; Sept. 26.
- Pressure gauge. R. M. Nelson. No. 1,436,895; Nov. 28.
- Pressure gauge. J. W. Place. Nos. 1,414,153-4; Apr. 25.
- Pressure gauge. W. Richter. No. 1,415,710; May 9.
- Pressure gauge. M. C. Schweinert and H. P. Kraft. No. 1,406,230; Feb. 14.
- Pressure gauge. S. J. Zasada. No. 1,436,224; Nov. 21.
- Pressure gauge, Absolute-. C. H. Berry. No. 1,414,854; May 2.

Alphabetical list of inventions—Continued.

- Pressure gauge and valve, Combined. J. E. Graham. No. 1,428,776; Sept. 12.
- Pressure gauge, Automatic air-. H. W. Banks. No. 1,435,272; Nov. 14.
- Pressure-gauge regulator. W. Richter. No. 1,409,028; Mar. 7.
- Pressure gauges, Auxiliary spring for. F. W. Peterson. No. 1,439,975; Dec. 26.
- Pressure gauges, Case for. F. C. Hasse. No. 1,435,922; Nov. 21.
- Pressure gauges on fluctuating pressure water lines, Means for protecting. E. A. Averill. No. 1,424,145; Aug. 1.
- Pressure generator. A. T. Kasley. No. 1,423,330; July 18.
- Pressure-indicating device and alarm signal. E. J. Dashner and C. H. Flint. No. 1,431,914; Oct. 10.
- Pressure indicator. C. R. Keeran. No. 1,414,474; May 2.
- Pressure indicator provided with a signal disk. J. E. Malivert. No. 1,412,698; Apr. 11.
- Pressure, Method and apparatus for recording. W. F. Hendry and C. E. Reddig. No. 1,426,735; Aug. 22.
- Pressure-operated switch. A. B. Cobb. No. 1,406,613; Feb. 14.
- Pressure-operated switch. T. D. Montee. No. 1,416,491; May 16.
- Pressure-operated switch, Automatic. W. L. Hamilton. No. 1,421,940; July 4.
- Pressure regulator. W. C. Bucknam. No. 1,427,191; Aug. 29.
- Pressure regulator. H. W. Day. No. 1,425,634; Aug. 15.
- Pressure regulator. A. W. Lissauer. No. 1,427,112; Aug. 29.
- Pressure regulator. G. S. Melcher. No. 1,436,973; Nov. 28.
- Pressure regulator. A. Swensen. No. 1,405,461; Feb. 7.
- Pressure regulator. J. M. Wilkins. No. 1,410,089; Mar. 21.
- Pressure regulator, Governor-operated. C. W. Lerner. No. 1,422,212; July 11.
- Pressure rollers, Floating shear control for. J. L. Wheeler and E. A. Reed. No. 1,415,501; May 9.
- Pressure rolls, Stripping means for. H. Hinckley. No. 1,430,166; Sept. 26.
- Pressures, Method of and means for exhausting to low. O. E. Buckley. No. 1,433,258; Oct. 24.
- Price mark, Adjustable. A. Sommerville. No. 1,413,500; Apr. 18.
- Price-marking device. G. F. Broz. No. 1,439,400; Dec. 19.
- Price-tag holder. L. E. Ericson. No. 1,423,655; July 25.
- Primary battery. W. M. Shakespeare. No. 1,407,489; Feb. 21.
- Primer. W. J. Thomas. No. 1,437,622; Dec. 5.
- Priming cup. L. F. Denevan. No. 1,432,841; Oct. 24.
- Priming cup. A. C. Dobrick. No. 1,425,512; Aug. 15.
- Priming cup. W. Grikscheit. No. 1,415,548; May 9.
- Priming device, Automatic. J. F. Read. No. 1,411,183; Mar. 28.
- Priming mixture. J. E. Burns. No. 1,437,224; Nov. 28.
- Priming rod. W. E. Clayton. No. 1,408,443; Mar. 7.
- Print-trimming machine. A. D. Caywood. No. 1,433,799; Oct. 31.
- Print-washing device. V. F. Langton and J. J. Underwood. No. 1,417,077; May 23.
- Print-washing machine. W. E. Stromberg and E. H. Schmicking. No. 1,434,071; Oct. 31.
- Printed products, Machine for counting out and marking. C. Nordfors. No. 1,421,983; July 4.
- Printed sheets, Means for preventing offset from freshly. H. M. Barber. No. 1,428,931; Sept. 12.
- Printer's chase rack. M. C. Harris. No. 1,433,274; Oct. 24.
- Printer's galley. F. W. and J. N. Manton. No. 1,436,044; Nov. 21.
- Printer's guide setter and registering aid. M. L. Aronson. No. 1,410,542; Mar. 28.
- Printers' leads, slugs, and rules, Making. B. S. Elrod. No. 1,438,951; Dec. 19.
- Printer's quoin. G. Duncanson, jr. No. 1,440,345; Dec. 26.
- Printer's strip-material mold. R. Gray. No. 1,414,464; May 2.
- Printing. T. S. Fox. No. 1,420,086; June 20.
- Printing, addressing, scoring, and cutting machine, Combination. E. E. Strawn. No. 1,414,054; Apr. 25.
- Printing and delivery machine, Ticket. C. N. Wade. No. 1,435,767; Nov. 14.
- Printing and embossing, Die press for. F. W. Wood. No. 1,423,589; July 25.
- Printing and folding machines, Paper elevator for. F. E. Weed. No. 1,439,535; Dec. 19.
- Printing and similar mechanisms, Apparatus for feeding web reels or rolls in rotary newspaper. G. W. Mascord. No. 1,410,825; Mar. 28.
- Printing and stamping machine. H. F. Hurst. No. 1,426,069; Aug. 15.
- Printing apparatus, Inking device for type. R. Fabig. No. 1,434,739; Nov. 7.
- Printing blocks, Making. K. Schlecht. No. 1,412,093; Apr. 11.
- Printing by greasy ink, Preparation of plates for. M. de Sperati. No. 1,433,806; Oct. 31.
- Printing complete form letters, Process and machine for. E. E. Strawn. No. 1,411,592; Apr. 4.
- Printing couple. C. Nordfors. No. 1,421,982; July 4.
- Printing device. W. S. Bing. No. 1,437,711; Dec. 5.
- Printing device. M. Bonsiakos. No. 1,426,708; Aug. 22.
- Printing device. C. P. Mezger. No. 1,428,795; Sept. 12.
- Printing device, Late-news-. H. A. W. Wood and J. A. Isbell. No. 1,414,107; Apr. 25.
- Printing-element holder. W. S. Warnock. No. 1,406,787; Feb. 14.
- Printing-element holder. H. S. Warnock. No. 1,418,112; May 30.
- Printing, Embossed. D. G. Elsen. No. 1,438,815; Dec. 12.
- Printing form, Assembled. C. Chisholm. No. 1,438,530; Dec. 12.
- Printing form, Assembled. B. J. Craig. No. 1,438,582; Dec. 12.
- Printing frame. J. D. Thompson. No. 1,421,859; July 4.
- Printing, Lithographic. A. S. N. Olson. No. 1,438,460; Dec. 12.
- Printing machine. A. Alexander. No. 1,427,569; Aug. 29.
- Printing machine. F. De Minico. No. 1,410,385; Mar. 21.
- Printing machine. F. De Minico. No. 1,421,920; July 4.
- Printing machine. W. L. Green. No. 1,436,653; Nov. 28.
- Printing machine. J. Heberling. No. 1,423,325; July 18.
- Printing machine. C. A. Kellogg. No. 1,411,788; Apr. 4.
- Printing machine. G. W. Mascord. No. 1,410,824; Mar. 28.
- Printing machine. C. H. Newton. No. 1,409,015; Mar. 7.
- Printing machine. J. S. Thompson. No. 1,416,390; May 16.
- Printing machine, Address-. E. E. Strawn. No. 1,414,103; Apr. 25.
- Printing machine and means for making the same. L. E. Leyens. No. 1,437,981; Dec. 5.
- Printing machine, Block-. R. G. Jackson. No. 1,409,862; Mar. 14.
- Printing machine, Cloth-. F. R. Evans. No. 1,406,948; Feb. 14.
- Printing machine, Coupon-ticket-. M. J. Hoffman. No. 1,437,592; Dec. 5.
- Printing machine, Flat-bed. R. C. Annand. No. 1,437,461; Dec. 5.
- Printing machine, Intaglio-. S. Hollingsworth. No. 1,402,295; Jan. 3.
- Printing machine, Rotary. A. B. Evans and R. P. Payne. No. 1,433,991; Oct. 31.
- Printing machine, Rotary. A. Fallot. No. 1,431,728; Oct. 10.
- Printing machine, Tape or web. O. L. Chesnutt. No. 1,422,666; July 11.
- Printing machine, Ticket and label. D. C. Wright and E. W. Cornell. No. 1,419,345; June 13.
- Printing machines, Delivery mechanism for. H. M. Barber. No. 1,426,033; Aug. 15.
- Printing machines, Feeding mechanism for rotary. A. H. Smith. No. 1,436,688; Nov. 28.
- Printing machines, Inking device for late-news and other. H. A. W. Wood and J. A. Isbell. No. 1,428,310; Sept. 5.
- Printing machines, Inking mechanism for. O. Roosen. No. 1,427,853; Sept. 5.
- Printing machines, Rotary. G. W. Mascord. No. 1,410,826; Mar. 28.
- Printing machines, Sheet-delivery mechanism of. F. Spence. No. 1,436,543; Nov. 21.
- Printing, Method and means for. L. E. Woodard. No. 1,406,132; Feb. 7.
- Printing, Multicolor. F. Kunert and E. Acker. No. 1,426,299; Aug. 15.
- Printing on vitrified ware. J. F. Kelly. No. 1,433,892; Oct. 31.
- Printing-plate clamp. S. Hollingsworth. No. 1,401,982; Jan. 3.
- Printing-plate-clamping means. C. L. Post. No. 1,437,445; Dec. 5.
- Printing plates, Filing. H. R. Grant. No. 1,415,629; May 9.
- Printing plates, Forming celluloid. F. C. Goldenbaum. No. 1,422,695; July 11.
- Printing plates, Machine for and method of making. C. W. Fetherolf. No. 1,438,589; Dec. 12.
- Printing plates, Means for packing. O. S. Gauch. No. 1,434,605; Nov. 7.
- Printing plates, Producing. E. Albert. No. 1,430,347; Sept. 26.
- Printing plates, Securing means for. C. A. Meisel. No. 1,423,486; July 18.
- Printing press. R. Adams. No. 1,410,357; Mar. 21.
- Printing press. B. Brewer. No. 1,409,659; Mar. 14.
- Printing press. A. C. Christopherson. Nos. 1,411,267-8; Apr. 4.
- Printing press. C. H. Cochrane. No. 1,414,339; May 2.
- Printing press. E. W. Cooper. No. 1,428,080; Sept. 5.
- Printing press. E. F. Dudley. No. 1,424,757; Aug. 8.
- Printing press. E. J. Gowdy. No. 1,423,792; July 25.
- Printing press. L. P. Hughes. No. 1,405,515; Feb. 7.
- Printing press. L. Rhoades. No. 1,409,240; Mar. 14.
- Printing press. W. H. Smith. No. 1,404,554; Jan. 24.
- Printing press. G. R. Williams. No. 1,438,282; Dec. 12.
- Printing press. A. Zwoboda. No. 1,440,203; Dec. 26.
- Printing-press attachment. G. K. Sinclair. No. 1,418,102; May 30.
- Printing-press brake. C. L. Kessler. No. 1,437,734; Dec. 5.
- Printing-press feed gauge. E. L. Megill. No. 1,416,488; May 16.
- Printing press, Flat-bed. J. W. Littler. No. 1,409,743; Mar. 14.

- Printing-press frame. B. D. Stevens. No. 1,413,067; Apr. 18.
- Printing-press jogger. E. E. Bobbit. No. 1,440,206; Dec. 26.
- Printing press, Lithographic. A. S. N. Olson. No. 1,438,461; Dec. 12.
- Printing press, Multicolor. C. A. Richards. No. 1,417,769; May 30.
- Printing press, Multicolor. C. A. Richards and M. M. Riester. No. 1,417,569; May 30.
- Printing press, Multicolor. B. C. White. No. 1,426,431; Aug. 22.
- Printing press, Multiform. L. P. Hughes. No. 1,405,513; Feb. 7.
- Printing press, Rotary web. H. F. Bechman. No. 1,437,707; Dec. 5.
- Printing-press throw-off mechanism, Actuating device for. C. A. Soderlund. No. 1,435,089; Nov. 7.
- Printing presses and other machines, Braking system for. C. T. Henderson. No. 1,427,461; Aug. 29.
- Printing presses, Attachment for. J. F. Frederick. Nos. 1,414,871-2; May 2.
- Printing presses, Combination gripper, perforating, and scoring attachment for. G. K. Braymen. No. 1,431,148; Oct. 10.
- Printing presses, Counting machine for. E. Bouma. No. 1,440,130; Dec. 26.
- Printing presses, Electric neutralizer and drier for. K. E. Garling. No. 1,413,719; Apr. 25.
- Printing presses, Electrically-heated drying roll for. M. J. Carl. No. 1,433,674; Oct. 31.
- Printing presses, Envelope separator for. C. H. Martin. No. 1,430,915; Oct. 3.
- Printing presses, Feed gauge for. E. R. Linebaugh. No. 1,430,911; Oct. 3.
- Printing presses, Feed guide for. C. L. Welsh. No. 1,403,662; Jan. 17.
- Printing presses, Feed table for. F. S. English. No. 1,420,084; June 20.
- Printing presses, Finger guard for. G. H. Dufour. No. 1,407,182; Feb. 21.
- Printing presses, Finger guard for. G. H. Dufour. No. 1,421,424; July 4.
- Printing presses, Gripper for. R. T. Snell. No. 1,405,949; Feb. 7.
- Printing presses, Inking mechanism for. J. E. Doyle. No. 1,403,236; Jan. 10.
- Printing presses, Inking mechanism for. F. C. Sixt. No. 1,439,767; Dec. 26.
- Printing presses, Inking mechanism for bed-and-cylinder. H. M. Barber. No. 1,431,088; Oct. 3.
- Printing presses, Jogging mechanism for. D. S. Stone. No. 1,408,419; Feb. 28.
- Printing presses or the like, Lost-motion take-up for. H. C. Alger. No. 1,430,274; Sept. 26.
- Printing presses, Perforator for. D. J. Deegan. No. 1,421,417; July 4.
- Printing presses, Pneumatic paper control for. C. C. Schutte. No. 1,429,301; Sept. 19.
- Printing presses, Preparing cutting and scoring matrices for. C. W. Britcher. No. 1,416,682; May 23.
- Printing presses, Rewind device for multiple-process. R. T. Hosking. No. 1,414,809; May 2.
- Printing presses, Safety device for platen. R. S. Gold. No. 1,437,590; Dec. 5.
- Printing presses, Sheet-feeding device for high-speed. J. Fischer. No. 1,418,145; May 30.
- Printing presses, Sheet-feeding mechanism for. C. P. Cottrell. No. 1,406,978; Feb. 21.
- Printing presses, Sheet-feeding mechanism for. A. B. Evans and R. P. Payne. No. 1,430,223; Sept. 26.
- Printing presses, Slip-sheet-feeding attachment for. F. C. Appleby. No. 1,403,371; Jan. 10.
- Printing presses, Stiffening of. M. Rockstroh. No. 1,437,198; Nov. 28.
- Printing presses, Vacuum means for holding type and music sheets upon. G. Fussell. No. 1,426,471; Aug. 22.
- Printing presses, Vaporizing attachment for. T. T. Pope. No. 1,409,235; Mar. 14.
- Printing, Producing shaded. C. C. Hutson and J. E. Wisler. No. 1,402,935; Jan. 10.
- Printing, Protective. H. H. Dow. No. 1,428,278; Sept. 5.
- Printing rollers, Blanket stretcher for. E. E. Strawn. No. 1,414,104; Apr. 25.
- Printing strips and making same, Holder for. W. J. Demming. No. 1,438,584; Dec. 12.
- Printing surface. J. A. Corey. No. 1,426,549; Aug. 22.
- Printing surfaces, Forming. P. J. Wood. Nos. 1,436,423-4; Nov. 21.
- Prints, Method of and apparatus for making multicolor. O. R. Schultz and O. Kirsch. (Reissue.) No. 15,286; Feb. 14.
- Printometer bracket. C. E. Brown. No. 1,423,182; July 18.
- Privy. H. R. Maguire. No. 1,425,881; Aug. 15.
- Prize ring. E. M. Mullin. No. 1,435,326; Nov. 14.
- Proctotherapy, Medical apparatus for use in. O. B. Schellberg. No. 1,425,420; Aug. 8.
- Profilograph. T. K. Artime. No. 1,428,520; Sept. 12.
- Projectile. K. Dougan. No. 1,428,683; Sept. 12.
- Projectile. G. Ramsey. No. 1,426,907; Aug. 22.
- Projectile. J. Urbutis. No. 1,409,045; Mar. 7.
- Projectile, Armor-piercing. J. L. Cox. No. 1,419,361; June 13.
- Projectile, Armor-piercing. W. J. Tucker. No. 1,408,148; Feb. 28.
- Projectile bands, Machine for sizing. A. W. Limont. No. 1,415,459; May 9.
- Projectile, Capped armor-piercing. R. A. Hadfield, A. G. M. Jack, and A. B. H. Clerke. No. 1,407,532; Feb. 21.
- Projectile, Expanding. J. T. and R. A. Careaga. No. 1,405,276; Jan. 31.
- Projectile fuse. D. A. Pistorio. No. 1,438,328; Dec. 12.
- Projectile, Incendiary. W. L. Clay and A. H. Hallowell. No. 1,434,681; Nov. 7.
- Projectiles, Antifouling metal for. S. Rousseau and W. Yoxall. No. 1,427,127; Aug. 29.
- Projectiles, Electric apparatus for propelling. A. L. O. Fauchon-Villepée. No. 1,422,427; July 11.
- Projectiles, Firing device for. T. W. Walker. No. 1,434,173; Oct. 31.
- Projectiles, Heat treating and hardening. J. L. Cox. No. 1,407,255; Feb. 21.
- Projectiles into cannon, Device for loading. E. K. Standish. No. 1,438,670; Dec. 12.
- Projectiles, Making. J. L. Cox. No. 1,407,254; Feb. 21.
- Projectiles, Making. J. L. Cox. No. 1,409,929; Mar. 21.
- Projection apparatus. H. N. Ott and F. H. Bufton. No. 1,408,027; Feb. 28.
- Projection apparatus. H. N. Ott and F. H. Bufton. No. 1,424,847; Aug. 8.
- Projection apparatus, Automatic stop for. M. C. Fullenlove. No. 1,412,110; Apr. 11.
- Projection apparatus, Slide carrier for. J. Kothiringer. No. 1,409,186; Mar. 14.
- Projection slide carrier. W. Wenderhold. No. 1,407,906; Feb. 28.
- Projector. J. W. Wallis. No. 1,402,816; Jan. 10.
- Projector, Spotlight. W. E. Porter. No. 1,408,222; Feb. 28.
- Projectors, Focusing mechanism for. S. Stalberg. No. 1,422,585; July 11.
- Pronged-eye fastener. E. J. Smith. No. 1,416,902; May 23.
- Proof and transfer press. L. Smith. (Reissue.) No. 15,481; Oct. 31.
- Proofed fabric and making same. G. Blenio. No. 1,436,231; Nov. 21.
- Propeller. A. Balaguer. No. 1,403,729; Jan. 17.
- Propeller. J. Bartha and A. E. Glassmann. No. 1,417,486; May 30.
- Propeller. G. Bauer. No. 1,438,012; Dec. 5.
- Propeller. J. Carpenter. No. 1,438,094; Dec. 5.
- Propeller. A. Danielson. No. 1,425,179; Aug. 8.
- Propeller. L. D. Dennis. No. 1,413,392; Apr. 18.
- Propeller. J. B. Flowers. No. 1,405,910; Feb. 7.
- Propeller. L. T. Frederick. No. 1,406,364; Feb. 14.
- Propeller. F. L. Guillemet. No. 1,421,460; July 4.
- Propeller. R. Kemp. No. 1,433,728; Oct. 31.
- Propeller. K. F. J. Kirsten. No. 1,432,700; Oct. 17.
- Propeller. F. W. Lambert. No. 1,422,109; July 11.
- Propeller. W. H. Leinweber. No. 1,401,992; Jan. 3.
- Propeller. T. B. MacMeichen. No. 1,432,710; Oct. 17.
- Propeller. R. C. MacKenney. No. 1,427,307; Aug. 29.
- Propeller. G. A. Ogrissek. No. 1,424,672; Aug. 1.
- Propeller. E. Spreckmeester. No. 1,413,296; Apr. 18.
- Propeller. W. R. Turnbull. No. 1,427,178; Aug. 29.
- Propeller, Adjustable and reversible. S. Hart. No. 1,403,775; Jan. 17.
- Propeller, Adjustable or self-regulating. E. Wesnigk. No. 1,425,922; Aug. 15.
- Propeller, Adjustable-pitch. L. T. Frederick. No. 1,437,099; Nov. 28.
- Propeller and making same. L. T. Frederick. No. 1,406,365; Feb. 14.
- Propeller-blade control. R. M. Buchanan. No. 1,438,093; Dec. 5.
- Propeller blades, Lead adjustment for. E. Weaver. No. 1,405,643; Feb. 7.
- Propeller blades, Machine for facing. F. E. Neitzel. No. 1,426,091; Aug. 15.
- Propeller blades, Machine for planing or machining. G. A. Clavey. No. 1,423,307; July 18.
- Propeller blower. H. F. Schmidt. No. 1,427,859; Sept. 5.
- Propeller-controlling mechanism. R. W. Barton. No. 1,420,619; June 27.
- Propeller device, Adjustable. W. C. Russell. No. 1,418,399; June 6.
- Propeller device, Disappearing. H. R. Astridge. No. 1,434,581; Nov. 7.
- Propeller-hub construction. A. F. Zahm. No. 1,406,600; Feb. 14.
- Propeller-hub fastening. C. B. Kirkham. No. 1,437,471; Dec. 5.
- Propeller, Paddle. B. F. Baddeley. No. 1,428,873; Sept. 12.
- Propeller, Reversible. D. Cockburn and E. McDonald. No. 1,418,622; June 6.
- Propeller, Screw. H. Leitner. No. 1,438,838; Dec. 12.
- Propeller, Screw. G. H. Thompson and I. Currie. No. 1,418,991; June 6.
- Propeller, Screw. E. A. Vessey. No. 1,438,413; Dec. 12.
- Propeller structure. H. J. Baker. No. 1,435,791; Nov. 14.

Alphabetical list of inventions—Continued.

- Propeller thrust and torque measure. A. F. Zahm. No. 1,405,176; Jan. 31.
- Propeller, Variable-pitch. D. F. Zook. No. 1,415,756; May 9.
- Propeller, Variable-pitch or reversible. F. W. Caldwell. No. 1,404,269; Jan. 24.
- Propellers, Synchronizing mechanism for reversible-pitch. E. G. McCauley. No. 1,427,830; Sept. 5.
- Propellers, System for testing. A. F. Zahm. No. 1,405,177; Jan. 31.
- Propellers, Three-phase driving system for marine. W. Mollier. No. 1,433,089; Oct. 24.
- Propelling apparatus, Walking-motion. V. G. Anderson. No. 1,429,551; Sept. 19.
- Protecting device. W. W. Miller. No. 1,413,925; Apr. 25.
- Protective device. C. E. Edge. No. 1,405,106; Jan. 31.
- Protective device. R. E. Ottman. No. 1,406,681; Feb. 14.
- Protective device. G. M. Woods. No. 1,428,869; Sept. 12.
- Protective device, Holdup. J. E. I. Lewis. No. 1,437,665; Dec. 5.
- Protectively treating materials. A. Arent. No. 1,418,610; June 6.
- Protectively treating wood and the like. A. Arent. No. 1,418,609; June 6.
- Protector. C. F. Bennett. No. 1,420,361; June 20.
- Protector. W. L. Cook. No. 1,435,213; Nov. 14.
- Protector. M. G. Darling. No. 1,423,402; July 18.
- Protector. L. J. Sanders. No. 1,417,414; May 23.
- Protector and fastener, Combined. E. Quinn. No. 1,410,079; Mar. 21.
- Protector, Sanitary. E. Lacy. No. 1,407,872; Feb. 28.
- Proteid substances, Manufacturing vegetable. S. Satow. No. 1,427,645; Aug. 29.
- Proteids and lactose from whey, Extraction of. D. Thomson. No. 1,428,820; Sept. 12.
- Protractor. L. W. Bugbee. No. 1,408,339; Feb. 28.
- Protractor. F. O. Knuusi. No. 1,416,357; May 16.
- Protractor. J. R. Mahon. No. 1,414,033; Apr. 25.
- Protractor and scale, Combined. H. Henrichs. No. 1,409,342; Mar. 14.
- Protractor, Slide. R. Abare. No. 1,417,878; May 30.
- Protractors, Attachment for. J. M. J. Schwarz. No. 1,408,646; Mar. 7.
- Prune picker. J. W. Shaw. No. 1,439,266; Dec. 19.
- Pruning device. M. Philbert. No. 1,436,603; Nov. 21.
- Psychograph. F. S. Campbell. No. 1,404,927; Jan. 31.
- Publication. C. L. Perkins. No. 1,436,818; Nov. 28.
- Pudding compositions, Making. E. Polak. No. 1,426,006; Aug. 15.
- Puddle blade, Detachable. L. W. Jones. No. 1,409,112; Mar. 7.
- Pug mills, Steam-operated gate for. C. F. Hetherington. No. 1,434,997; Nov. 7.
- Pull-rod coupling. E. Hensley. No. 1,431,304; Oct. 10.
- Pull rods to wrist pins, Device for connecting. J. H. Wilson. No. 1,412,548; Apr. 11.
- Pull-strap fixture. P. Rissmann. No. 1,426,106; Aug. 15.
- Puller: See—
- Bearing puller. Pipe puller.
- Bearing-cup puller. Post and brush puller.
- Bearing-sleeve puller. Sleeve puller.
- Cotter-key puller. Spike puller.
- Cotter-pin puller. Staple puller.
- Fuse puller. Stump puller.
- Fuse-plug puller. Tie puller.
- Gear puller. Weed puller.
- Moss puller. Wheel puller.
- Nail puller. Wheel and gear puller.
- Puller and press, Combined. H. R. Mohrman. No. 1,426,835; Aug. 22.
- Pulling device. C. D. Krell. No. 1,426,483; Aug. 22.
- Pulling-over machine. E. Brothers. No. 1,421,394; July 4.
- Pulling-over machine. A. E. Jerram, J. Gouldbourn, and F. Ricks. No. 1,426,390; Aug. 22.
- Pulling-over machine. H. Walther. (Reissue.) No. 1,530,9; Mar. 14.
- Pulley. A. Davidson. No. 1,429,491; Sept. 19.
- Pulley. J. P. Fowler. No. 1,402,489; Jan. 3.
- Pulley. A. T. Mott. No. 1,410,497; Mar. 21.
- Pulley. C. E. Reddig. No. 1,416,063; May 16.
- Pulley. S. R. Swain. No. 1,422,389; July 11.
- Pulley. H. C. Wallace. No. 1,432,814; Oct. 24.
- Pulley. M. F. Williams. No. 1,423,476; July 18.
- Pulley adapter. G. W. Hughes. No. 1,422,360; July 11.
- Pulley, Adjustable. M. L. Hudson. No. 1,405,590; Feb. 7.
- Pulley-belt fastener. L. G. Falcon. No. 1,406,831; Feb. 14.
- Pulley block. B. Boykin, jr. No. 1,435,953; Nov. 21.
- Pulley bushing, Split loose. T. F. Barry. No. 1,421,377; July 4.
- Pulley, Clutch. J. F. McNally and R. A. Bradley. No. 1,422,873; July 18.
- Pulley construction, Two-piece. F. Haskel. No. 1,422,263; July 11.
- Pulley-cord clip. L. B. Odson. No. 1,405,426; Feb. 7.
- Pulley, Detachable. H. W. L. Pell. No. 1,408,138; Feb. 28.
- Pulley, Divided. N. R. M. Weibull. No. 1,417,960; May 30.
- Pulley, Fan. O. H. Walker and J. D. Vogt. No. 1,432,581; Oct. 17.
- Pulley, Flanged. H. M. Plaisted. No. 1,430,752; Oct. 3.
- Pulley-grinding machine. J. F. Crawford. No. 1,434,592; Nov. 7.
- Pulley, Grip. L. K. Davis. No. 1,431,376; Oct. 10.
- Pulley key lock. H. W. Olsen. No. 1,418,728; June 6.
- Pulley, Magnetic. J. P. Bethke and R. H. Stearns. No. 1,407,051; Feb. 21.
- Pulley pin, Fan. J. L. Jones. No. 1,437,108; Nov. 28.
- Pulley, Reversible clutch. H. C. Stolz. No. 1,407,899; Feb. 28.
- Pulley, Self-lubricating. M. H. Ballard. No. 1,410,544; Mar. 28.
- Pulley, Self-oiling. E. Roberts. No. 1,436,910; Nov. 28.
- Pulley, Tight band. H. W. Morgan and E. P. Holder. No. 1,421,708; July 4.
- Pulley, Ventilated. A. Kimble. No. 1,433,828; Oct. 31.
- Pulley, Water-cooled. A. Kimble. No. 1,437,595; Dec. 5.
- Pulley, Window. J. F. Sharpless, Jr. No. 1,420,873; June 27.
- Pulleys, Bushing for loose. B. W. Fjellman. No. 1,437,969; Dec. 5.
- Pulleys, clutches, hanger bearings, and the like, Hub for loose. W. F. Daggett. No. 1,429,065; Sept. 12.
- Pulleys, Combined guard and hanger for. K. M. Rossi. No. 1,405,008; Jan. 31.
- Pulleys, Flexible facing for. M. F. Williams. No. 1,434,239; Oct. 31.
- Pulleys, Tension pad for let-off. J. Demyen. No. 1,435,590; Nov. 14.
- Pulp and paper machines, Felt guide for. F. Ford. No. 1,414,940; May 2.
- Pulp and the like, Drum for drying. C. L. Dean. No. 1,422,039; July 4.
- Pulp, Apparatus for manufacturing. C. W. Shartle. No. 1,405,947; Feb. 7.
- Pulp beater. L. E. Randecker. No. 1,431,422; Oct. 10.
- Pulp, Bleaching. G. M. Trostel. No. 1,409,799; Mar. 14.
- Pulpboard, and making the same, Veneered. A. Elmdorf. No. 1,435,594; Nov. 14.
- Pulp-cleaning apparatus. H. W. Southworth. No. 1,402,456; Jan. 3.
- Pulp-drying machine, Centrifugal. R. C. Mabry. No. 1,415,939; May 16.
- Pulp, Making wood. E. F. Millard. No. 1,413,180; Apr. 18.
- Pulp material, Preparing fibrous. C. and J. Bache-Wilg. No. 1,418,353; June 6.
- Pulp, Method of and apparatus for bleaching. R. B. Wolf. No. 1,433,865; Oct. 31.
- Pulp, Method of and apparatus for washing. O. B. Brown, H. K. Moore, H. Parker, and H. M. Martinson. No. 1,421,664; July 4.
- Pulp mold. J. C. Jankus. No. 1,428,437; Sept. 5.
- Pulp receptacles, Machine for making. E. E. Claussen. No. 1,434,091; Oct. 31.
- Pulp, Reducing and grading. C. E. Hawkins. No. 1,437,804; Dec. 5.
- Pulp screen. J. H. Baker. No. 1,404,566; Jan. 24.
- Pulp screen. B. C. Root. No. 1,438,861; Dec. 12.
- Pulp screen, Centrifugal. G. F. Shevlin. No. 1,436,411; Nov. 21.
- Pulp thickener. B. C. Root. No. 1,438,860; Dec. 12.
- Pulp-stone burr. T. W. Ward and B. F. Mellen. No. 1,419,785; June 13.
- Pulp-thickening machine. C. H. Allen. No. 1,421,364; July 4.
- Pulp used in the manufacture of paper, Apparatus for making. C. W. Shartle. No. 1,415,902; May 16.
- Pulp-wood breaker. A. D. Wood, L. Trantham, and E. T. Self. No. 1,414,914; May 2.
- Pulping machine. L. A. Babcock. No. 1,433,523; Oct. 31.
- Pulping machine. A. E. Hughes. No. 1,433,724; Oct. 31.
- Pulping machine. J. F. Lindley. No. 1,408,303; Feb. 28.
- Pulse amplifier. S. N. Baruch. No. 1,403,384; Jan. 10.
- Pulverized-fuel furnace. L. H. Bergman. No. 1,421,898; July 4.
- Pulverized material, Feeding apparatus for. A. F. Sinclair. No. 1,402,184; Jan. 3.
- Pulverizer. L. I. and J. I. Hoke. No. 1,424,358; Aug. 1.
- Pulverizer. P. S. Knittel. No. 1,424,923; Aug. 8.
- Pulverizer and packer. P. Skonseng. No. 1,404,801; Jan. 31.
- Pulverizer, Rotary. W. H. Fulcher. No. 1,429,333; Sept. 19.
- Pulverizing apparatus. R. E. H. Pomeroy. No. 1,431,251; Oct. 10.
- Pulverizing apparatus. F. I. Raymond. No. 1,434,843; Nov. 7.
- Pulverizing apparatus, Dry. R. E. H. Pomeroy. No. 1,427,322; Aug. 29.
- Pulverizing machine. P. S. Knittel. No. 1,424,922; Aug. 8.
- Pulverizing material. R. E. H. Pomeroy. No. 1,431,252; Oct. 10.
- Pulverizing mill. D. V. Sherban. No. 1,427,234; Aug. 29.
- Pulverizing mill. D. V. Sherban. No. 1,433,485; Oct. 24.
- Pulverulent material, Concentrating. F. Ondra. No. 1,421,984; July 4.
- Pulverulent material from bulk, Means for abstracting. A. Redler. No. 1,416,416; May 16.
- Pulverulent material, Solidifying. C. J. Randall and R. R. Taylor. No. 1,405,440; Feb. 7.
- Pump. L. A. Andrews. No. 1,431,355; Oct. 10.

- Pump. W. D. Bartlett and S. Marquis. No. 1,402,719; Jan. 3.
- Pump. A. A. Barton. No. 1,435,793; Nov. 14.
- Pump. N. Boniface. No. 1,437,338; Nov. 28.
- Pump. J. R. Broadley and J. M. Lee. No. 1,435,513; Nov. 14.
- Pump. F. A. J. Brown. No. 1,427,512; Aug. 29.
- Pump. G. and C. Burd. No. 1,416,445; May 16.
- Pump. J. D. Carroll. No. 1,437,464; Dec. 5.
- Pump. R. B. Carter. No. 1,410,994; Mar. 28.
- Pump. H. Craig. No. 1,439,295; Dec. 19.
- Pump. E. A. Culbertson. No. 1,433,677; Oct. 31.
- Pump. E. C. Cummings. No. 1,424,004; July 25.
- Pump. E. J. De Ville. No. 1,438,225; Dec. 12.
- Pump. M. B. Eslinger. No. 1,412,279; Apr. 11.
- Pump. W. M. Fleming and N. E. Brigham. No. 1,406,178; Feb. 14.
- Pump. A. Geddes. No. 1,435,837; Nov. 14.
- Pump. K. F. Gerhard. No. 1,432,848; Oct. 24.
- Pump. J. A. Goodner. No. 1,434,741; Nov. 7.
- Pump. H. M. Green. No. 1,422,759; July 11.
- Pump. P. A. Guinard. No. 1,409,097; Mar. 7.
- Pump. H. A. Handy. No. 1,426,864; Aug. 22.
- Pump. L. H. Haney. No. 1,423,496; July 18.
- Pump. L. H. Haney. No. 1,428,483; Sept. 5.
- Pump. K. Herman. No. 1,423,852; July 25.
- Pump. P. S. Herring. No. 1,406,859; Feb. 14.
- Pump. W. S. Holdaway. No. 1,423,768; July 25.
- Pump. B. B. Holmes. No. 1,436,443; Nov. 21.
- Pump. R. F. Hopkins and O. F. Devold. No. 1,423,935; July 25.
- Pump. G. A. Humason and W. E. Langley. No. 1,409,450; Mar. 14.
- Pump. J. B. Jensen. No. 1,406,868; Feb. 14.
- Pump. R. H. Johnson. No. 1,427,740; Aug. 29.
- Pump. H. M. Keith. No. 1,411,173; Mar. 28.
- Pump. D. W. Keith. No. 1,413,165; Apr. 18.
- Pump. J. D. Keller. No. 1,437,147; Nov. 28.
- Pump. M. A. Kerr. No. 1,436,881; Nov. 28.
- Pump. E. T. Kien. No. 1,409,868; Mar. 14.
- Pump. E. T. Kien. No. 1,439,628; Dec. 19.
- Pump. C. S. Kurtz. No. 1,419,181; June 13.
- Pump. J. A. Larsen. No. 1,437,664; Dec. 5.
- Pump. G. F. Lybeck. No. 1,426,206; Aug. 15.
- Pump. C. S. McClelland. No. 1,424,928; Aug. 8.
- Pump. C. E. McGee and J. M. Kent. No. 1,411,793; Apr. 4.
- Pump. R. S. M. Mitchell. No. 1,432,081; Oct. 17.
- Pump. J. P. Montgomery. No. 1,420,052; June 20.
- Pump. C. C. Moorman. No. 1,433,401; Oct. 24.
- Pump. P. A. Myers. No. 1,428,181; Sept. 5.
- Pump. T. Noble. No. 1,430,923; Oct. 3.
- Pump. C. J. Noel. No. 1,435,547; Nov. 14.
- Pump. H. E. Pelletier. No. 1,435,973; Nov. 21.
- Pump. L. L. Scott. No. 1,432,041; Oct. 17.
- Pump. C. H. Selin. No. 1,437,686; Dec. 5.
- Pump. C. R. Sessions. No. 1,427,974; Sept. 5.
- Pump. F. Stickel. No. 1,425,614; Aug. 15.
- Pump. J. M. Stone. No. 1,412,146; Apr. 11.
- Pump. H. H. Taylor. No. 1,410,520; Mar. 21.
- Pump. G. B. Trev. No. 1,415,417; May 9.
- Pump. A. J. Welden. No. 1,439,591; Dec. 19.
- Pump. A. W. Wellington and A. F. Ryan. No. 1,424,964; Aug. 8.
- Pump. I. W. Wepplo. No. 1,415,617; May 9.
- Pump. G. W. Wright. No. 1,419,436; June 13.
- Pump. Air. A. Burnam. No. 1,414,621; May 2.
- Pump, Air. D. G. Edwards. No. 1,405,907; Feb. 7.
- Pump, Air. F. A. Johnson. No. 1,436,175; Nov. 21.
- Pump, Air. F. Johnson. No. 1,438,918; Dec. 12.
- Pump, Air. R. H. Kelly. No. 1,437,184; Nov. 28.
- Pump, Air. A. Krehlik. No. 1,415,573; May 2.
- Pump, Air. J. W. Lawhead. No. 1,425,663; Aug. 15.
- Pump, Air. A. Marschalek. No. 1,438,773; Dec. 12.
- Pump, Air. J. L. Nilson and J. Prince. No. 1,404,470; Jan. 24.
- Pump, Air. W. E. Shore. No. 1,408,649; Mar. 7.
- Pump, Air. W. A. Swan. No. 1,424,123; July 25.
- Pump, Air. E. Wenger and C. E. Rodin. No. 1,434,418; Nov. 7.
- Pump and control mechanism therefor, Rotary piston. W. M. Beatty. No. 1,437,885; Dec. 5.
- Pump and engine, Rotary. I. B. Hart. No. 1,408,292; Feb. 28.
- Pump and engine, Rotary. G. F. Moors. Nos. 1,408,380-1; Feb. 28.
- Pump and engine, Rotary. C. M. Sparrow. No. 1,408,839; Mar. 7.
- Pump and motor for submerged service, Unit. W. R., H. J., and E. M. Woock. No. 1,425,308; Aug. 8.
- Pump and motor, Hydraulic. M. K. Ingoldby. No. 1,424,823; Aug. 8.
- Pump and motor unit. H. J., W. R., and E. M. Woock. No. 1,405,959; Feb. 7.
- Pump and packing same. R. W. Stephens. No. 1,407,493; Feb. 21.
- Pump and pumping system. B. S. Aikman. No. 1,423,291; July 18.
- Pump and the like, Centrifugal and turbine. A. E. Gull. No. 1,413,911; Apr. 25.
- Pump and the like, Chain. J. C. Laforest. No. 1,437,898; Dec. 5.
- Pump and the like, Submersible. J. B. Keating. No. 1,428,238; Sept. 5.
- Pump attachment. W. J. McAdams and E. A. Spohaer. No. 1,405,053; Jan. 31.
- Pump, Automatic. C. M. McFarland. No. 1,414,990; May 2.
- Pump, Automobile air. F. Fagg. No. 1,434,994; Nov. 7.
- Pump bucket or piston. H. R. Frith. No. 1,438,910; Dec. 12.
- Pump cables, Power hitch for. D. L. Newton. No. 1,433,090; Oct. 24.
- Pump casing and abutment construction, Rotary. F. Marion. No. 1,409,054; Mar. 7.
- Pump casing, Balanced. H. E. Warman. No. 1,439,386; Dec. 19.
- Pump, Centrifugal. H. Eicheler. No. 1,412,105; Apr. 11.
- Pump, Centrifugal. G. H. Elmore. No. 1,417,812; May 30.
- Pump, Centrifugal. F. H. Goosmann. No. 1,410,564; Mar. 28.
- Pump, Centrifugal. O. Haentjens. No. 1,408,291; Feb. 28.
- Pump, Centrifugal. J. S. Hazell. Nos. 1,439,364-5; Dec. 19.
- Pump, Centrifugal. A. C. Stewart. No. 1,406,297; Feb. 14.
- Pump, Centrifugal. R. N. Trane. No. 1,418,041; May 30.
- Pump, Centrifugal. W. F. Trenary. No. 1,423,309; July 18.
- Pump, Centrifugal. W. M. White. No. 1,418,344; June 6.
- Pump, Centrifugal. A. B. Woody. No. 1,431,350; Oct. 10.
- Pump, Chain. R. Long. No. 1,425,112; Aug. 8.
- Pump, Circulating. H. F. Schmidt. No. 1,419,692; June 13.
- Pump, Combined feed and brine. E. H. Nelson and E. A. Dewald. No. 1,405,737; Feb. 7.
- Pump, Compression. F. S. Carver. No. 1,419,221; June 13.
- Pump, Compression. L. Chew and W. F. Jennings. No. 1,428,473; Sept. 5.
- Pump, Compression. J. M. Jewell. No. 1,414,283; Apr. 25.
- Pump, Compression. F. L. Manny and W. H. Key. No. 1,417,677; May 30.
- Pump, Compressor or vacuum. R. N. Trane. No. 1,418,040; May 30.
- Pump, Condenser. E. Anderson. No. 1,415,975; May 16.
- Pump counters, etc., Compensating device for oil. C. H. Veeder. No. 1,411,984; Apr. 4.
- Pump coupling. H. P. Kraft. No. 1,433,518; Oct. 24.
- Pump-cylinder head. J. W. Drew. No. 1,428,222; Sept. 5.
- Pump, Deep-well. A. R. Brocksmith. No. 1,430,789; Oct. 3.
- Pump, Deep-well. W. F. Budlong. No. 1,429,487; Sept. 19.
- Pump, Deep-well. G. L. Fuller. No. 1,416,277; May 16.
- Pump, Deep-well. E. E. Johnson. Nos. 1,438,492-3; Dec. 12.
- Pump, Deep-well. E. D. McDonald. No. 1,422,588; July 11.
- Pump, Deep-well. W. A. Minor. No. 1,425,673; Aug. 15.
- Pump, Dispensing. J. B. Davis. No. 1,430,953; Oct. 3.
- Pump, Double-acting. H. Dantin. No. 1,433,875; Oct. 31.
- Pump, Double-action. E. E. Pigg. No. 1,417,105; May 23.
- Pump drain. E. M. Anderson. No. 1,402,826; Jan. 10.
- Pump, Dredging. H. W. Lockley. No. 1,401,994; Jan. 3.
- Pump drive apparatus. H. O. Baker. No. 1,420,807; June 27.
- Pump, Engine water. V. E. Laswell. No. 1,436,661; Nov. 28.
- Pump, Fluid. P. M. Grant. No. 1,414,463; May 2.
- Pump for delivering motor fuel and the like. P. Fisch. No. 1,418,293; June 6.
- Pump for inflating vehicle tires. K. H. Schmidt. No. 1,418,884; June 6.
- Pump for oil wells. H. L. Nolan. No. 1,402,950; Jan. 10.
- Pump for rarefying and compressing fluids, Pneumatic rotary. A. Cacciari. No. 1,426,356; Aug. 22.
- Pump for stereotyping and means for supplying metal thereto. H. A. W. Wood. No. 1,406,518; Feb. 14.
- Pump, Force. M. W. Tutt. No. 1,413,205; Apr. 18.
- Pump, Fountain. J. H. Scruggs. No. 1,412,973; Apr. 18.
- Pump-gear cable guide. M. J. Milz. No. 1,430,826; Oct. 3.
- Pump, Grease. C. J. Bellar. No. 1,432,658; Oct. 17.
- Pump, Grease. J. F. Ring, Jr. No. 1,429,255; Sept. 19.
- Pump handle. B. F. Ford. No. 1,412,611; Apr. 11.
- Pump handles, Locking device for. H. E. Tunnell. No. 1,439,852; Dec. 26.
- Pump jack. G. Alderson. No. 1,436,002; Nov. 21.
- Pump jack. O. Cullman. No. 1,411,418; Apr. 4.
- Pump jack. O. Cullman. No. 1,414,936; May 2.
- Pump jack. E. A. H. Jacob. No. 1,424,568; Aug. 1.
- Pump jack. W. G. Jensen. No. 1,415,037; May 9.
- Pump jack. W. C. Reese. No. 1,419,984; June 20.
- Pump jack. J. M. Stone. No. 1,433,571; Oct. 31.
- Pump jack, Combination. F. R. Owens. No. 1,431,028; Oct. 3.
- Pump, Hydraulic. W. F. Grant. No. 1,402,761; Jan. 10.
- Pump, Hydraulic. R. E. Pelterie. No. 1,418,672; June 6.
- Pump, Liquid. A. F. van Amstel. No. 1,438,147; Dec. 5.
- Pump, Liquid-dispensing. J. Kosman and M. Grzesik. No. 1,419,572; June 13.
- Pump, Liquid-measuring. N. D. Hull. No. 1,408,739; Mar. 7.

Alphabetical list of inventions—Continued.

- Pump, Lubricating. O. Natter. No. 1,413,052; Apr. 18.
 Pump, Lubricating. J. R. Richer and J. O. Hessler. No. 1,408,470; Mar. 7.
 Pump lubrication, Deep-well-. V. Schleyer. No. 1,405,380; Jan. 31.
 Pump mechanism. E. B. Thompson. (Reissue.) No. 15,415; July 18.
 Pump mechanism, Fluid-. F. C. Guerrlich. No. 1,423,559; July 25.
 Pump, more particularly those employd in hydraulic propulsion, Centrifugal. D. V. Hotchkiss. No. 1,404,525; Jan. 24.
 Pump, Multiple-chamber visible-flow oil. G. B. Nicholson. No. 1,424,176; Aug. 1.
 Pump, Multiple-cylinder compression. J. R. Price. No. 1,413,933; Apr. 25.
 Pump, Multiple-lock. W. H. Lockwood. No. 1,439,904; Dec. 26.
 Pump of variable capacity. A. Bollinckx. No. 1,428,876; Sept. 12.
 Pump, Oil. J. Penrod and R. D. Thompson. No. 1,440,099; Dec. 26.
 Pump, Oil. H. E. Rhoads. No. 1,410,125; Mar. 21.
 Pump, Oil. H. E. Rhoads. No. 1,421,718; July 4.
 Pump, Oil. H. H. Watkins. No. 1,421,629; July 4.
 Pump, Oil-well. T. J. Barger. Nos. 1,408,852-3; Mar. 7.
 Pump, Oil-well. T. J. Barger. No. 1,437,881; Dec. 5.
 Pump, Oil-well. C. D. Fator. No. 1,419,495; June 13.
 Pump, Oil-well. J. J. Larkin and R. L. Gordon. No. 1,423,860; July 25.
 Pump, Oil-well. J. H. Nichols. No. 1,417,764; May 30.
 Pump-operating mechanism. G. W. Hill. No. 1,430,994; Oct. 3.
 Pump or compressor, Reciprocating. G. F. Steedman. No. 1,428,402; Sept. 5.
 Pump or compressor, Rotary. W. H. Ricardo. No. 1,412,091; Apr. 11.
 Pump or compressor, Rotary. G. H. Stallman. No. 1,418,741; June 6.
 Pump or compressor valve. D. A. Decrow. No. 1,408,724; Mar. 7.
 Pump, Oscillating. A. B. Cook. No. 1,416,174; May 16.
 Pump, Oscillating vacuum. B. G. A. Harkness and H. F. Vosseler. No. 1,427,533; Aug. 29.
 Pump piston. J. H. Evans. No. 1,402,222; Jan. 3.
 Pump plunger. T. M. Adams. No. 1,415,911; May 16.
 Pump plunger. E. C. Critchlow. No. 1,423,197; July 18.
 Pump plunger. G. E. Livergood. No. 1,425,398; Aug. 8.
 Pump plungers, Combined cup protector and casing cleaner for. J. L. Bostic. No. 1,427,435; Aug. 29.
 Pump, Pneumatic. A. Kueher. No. 1,425,494; Aug. 8.
 Pump, Pneumatic. D. H. Reeves. No. 1,432,786; Oct. 24.
 Pump, Pressure. C. H. Atkins. No. 1,416,514; May 16.
 Pump-priming apparatus and process. L. Antonsanti. No. 1,430,611; Oct. 3.
 Pump, Quick-lift. M. N. Griffin and R. E. George. No. 1,417,317; May 23.
 Pump, Reciprocating. J. Björnstad. No. 1,413,568; Apr. 25.
 Pump, Reciprocating. J. D. Keller. No. 1,408,092; Feb. 28.
 Pump, Removable deep-well. O. B. Kibele. No. 1,421,253; June 27.
 Pump-rod counterbalance. J. H. Peck. No. 1,430,467; Sept. 26.
 Pump rods and the like, Mechanism for turning. E. W. Pietzsche. No. 1,417,858; May 30.
 Pump, Rotary. F. F. Ambrose. No. 1,407,620; Feb. 21.
 Pump, Rotary. A. Beardslee. No. 1,437,706; Dec. 5.
 Pump, Rotary. M. Crawford. No. 1,426,820; Aug. 22.
 Pump, Rotary. E. Crouse. No. 1,436,863; Nov. 28.
 Pump, Rotary. H. J. Edwards. No. 1,421,766; July 4.
 Pump, Rotary. W. A. Hatcher. No. 1,428,691; Sept. 12.
 Pump, Rotary. W. A. Hatcher. Nos. 1,431,793-4; Oct. 10.
 Pump, Rotary. E. B. Hoover. No. 1,414,512; May 2.
 Pump, Rotary. F. N. Imhoff, J. Hutchinson, and C. C. Hamilton. No. 1,409,548; Mar. 14.
 Pump, Rotary. G. W. Leiman. No. 1,414,028; Apr. 25.
 Pump, Rotary. G. Lobb. No. 1,428,173; Sept. 5.
 Pump, Rotary. F. Marion. No. 1,434,716; Nov. 7.
 Pump, Rotary. E. Marquet. No. 1,404,625; Jan. 24.
 Pump, Rotary. J. F. Smith. No. 1,417,418; May 23.
 Pump, Rotary. R. Sykora. No. 1,430,602; Oct. 3.
 Pump, Rotary piston. L. P. Storey. No. 1,407,496; Feb. 21.
 Pump, Running-board. D. G. Edwards. No. 1,405,908; Feb. 7.
 Pump, Screws. F. A. Fay. No. 1,430,894; Oct. 3.
 Pump, Self-measuring visible-liquid. D. S. Collins. No. 1,418,129; May 30.
 Pump, Single-cylinder double-acting. P. A. Records. No. 1,411,515; Apr. 4.
 Pump speeds, Automatic control of motor-driven-. T. B. Whitted. No. 1,411,145; Mar. 28.
 Pump, Spray. O. D. Wiggins. No. 1,403,140; Jan. 10.
 Pump stand or head. H. H. Oувerson. No. 1,435,417; Nov. 14.
 Pump, Steam. C. Barrance. No. 1,437,704; Dec. 5.
 Pump stirrup. C. D. Brandt. No. 1,408,859; Dec. 7.
 Pump stop. F. Babcock. No. 1,410,282; Mar. 21.
 Pump stop, Automatic. H. L. Smith. No. 1,420,769; June 27.
 Pump suction strainer. W. G. Mackay. No. 1,432,709; Oct. 17.
 Pump, Tire. J. T. Fiese. No. 1,414,808; May 2.
 Pump, Tire. R. Garrett. No. 1,417,163; May 23.
 Pump, Tire-operated multiple air. D. F. Groat. No. 1,423,607; July 25.
 Pump, Turbine-driven centrifugal. M. Spillmann. No. 1,431,190; Oct. 10.
 Pump, turbines, or the like, Thrust-balancing means for. E. F. Deléry. No. 1,404,346; Jan. 24.
 Pump, Vacuum. H. C. Snook and O. E. Buckley. No. 1,434,851; Nov. 7.
 Pump valve. A. England. No. 1,417,235; May 23.
 Pump valve. W. J. Nott. No. 1,406,885; Feb. 14.
 Pump valve. G. S. Wilcox. No. 1,418,043; May 30.
 Pump, Valveless. W. G. Boonzaier. No. 1,438,691; Dec. 12.
 Pump, Valveless. L. Saussard. No. 1,410,129; Mar. 21.
 Pump, Valveless oil. E. L. Müller. No. 1,408,709; Mar. 7.
 Pump, Variable-stroke hydraulic. C. L. Boisset. No. 1,418,616; June 6.
 Pump, Well. H. H. Hibbard. No. 1,421,004; June 27.
 Pump, Well. J. Penrod and R. D. Thompson. No. 1,425,276; Aug. 8.
 Pump, Wing. H. Hafkesbrink. No. 1,404,116; Jan. 17.
 Pump with ejector, Rotary. G. Handley. No. 1,418,921; June 6.
 Pump with permeable piston for multiple purposes. J. E. Larché. No. 1,410,530; Mar. 21.
 Pumping apparatus. R. Conrader. No. 1,421,409; July 4.
 Pumping apparatus. E. C. Duer. No. 1,431,105; Oct. 3.
 Pumping apparatus. A. Garbarini. No. 1,425,191; Aug. 8.
 Pumping apparatus. H. M. Green. No. 1,437,939; Dec. 5.
 Pumping apparatus. J. R. Suman. No. 1,428,866; Sept. 12.
 Pumping apparatus. F. A. Tittmore and C. S. Renwick. No. 1,435,761; Nov. 14.
 Pumping apparatus. H. J. Wheeler. No. 1,405,173; Jan. 31.
 Pumping apparatus, Well. C. C. Scharpenberg. No. 1,428,300; Sept. 5.
 Pumping device for pumping oil wells. F. H. Sibley. No. 1,414,158; Apr. 25.
 Pumping engine, Duplex. F. E. Stevenson. No. 1,432,636; Oct. 17.
 Pumping jack. G. M. Ashton. No. 1,435,444; Nov. 14.
 Pumping machinery. A. A. Eich. No. 1,402,059; Jan. 3.
 Pumping mechanism. J. F. Thomas. No. 1,430,416; Sept. 26.
 Pumping mechanism. E. E. Johnson. No. 1,438,495; Dec. 12.
 Pumping mechanism, Air-lift. H. B. Halvorsen. No. 1,426,863; Aug. 22.
 Pumping outfit. T. A. Brown. No. 1,431,095; Oct. 3.
 Pumping system. B. S. Aikman. No. 1,425,928; Aug. 15.
 Pumping system. H. Beddoes. No. 1,415,769; May 9.
 Pumping system. H. M. Jenkins. No. 1,435,239; Nov. 14.
 Pumping system. H. E. La Bour. No. 1,419,273; June 13.
 Pumping system. A. Priestman. No. 1,415,701; May 9.
 Pumping system, Fluid-operated. H. B. Halvorsen. No. 1,426,862; Aug. 22.
 Pumps and the like, Check-valve structure for water. T. S. Kilgore and L. R. Bone. No. 1,430,818; Oct. 3.
 Pumps, Attachment for. C. W. Lake. No. 1,406,036; Feb. 7.
 Pumps, Automatic control for hydraulic. F. E. Stevenson. No. 1,412,069; Apr. 11.
 Pumps, Automatic oil cup for air. A. Lautz. No. 1,402,939; Jan. 10.
 Pumps, Box and coupling for chain. E. F. Happensack. No. 1,439,814; Dec. 26.
 Pumps, Bucket for deep-well. A. A. Barton. No. 1,430,145; Sept. 26.
 Pumps, By-pass system for piston. F. Martin. No. 1,416,731; May 23.
 Pumps, Combined pressure and speed governor for steam-operated. A. Peterson. No. 1,407,041; Feb. 21.
 Pumps, Controlling apparatus for piston. F. Martin. Nos. 1,418,951-3; June 6.
 Pumps, Device for preventing the penetration of air into centrifugal. B. Bischof. No. 1,421,389; July 4.
 Pumps, Driving means for. E. P. Larsh. No. 1,433,016; Oct. 24.
 Pumps, Electric drive mechanism for rotary well. M. E. Layne. No. 1,435,400; Nov. 14.
 Pumps, Gear for well. H. W. Gerken. No. 1,423,102; July 18.
 Pumps, Gearing for deep-well. E. E. Johnson. No. 1,438,494; Dec. 12.
 Pumps, Lubricating system for deep-well. F. W. Krogh. No. 1,424,362; Aug. 1.
 Pumps, Packing construction for. H. M. Green. No. 1,437,938; Dec. 5.
 Pumps, Piston head for. C. E. McGee and J. M. Kent. No. 1,411,792; Apr. 4.
 Pumps, Rear-wheel attachment for tire. S. H. Price. No. 1,409,023; Mar. 7.
 Pumps, Safety device for gas or vapor. A. T. Marshall. No. 1,411,054; Mar. 28.

Alphabetical list of inventions—Continued.

- Pumps, Sand-protected bearing for deep-well. V. Schleyer. No. 1,404,698; Jan. 24.
- Pumps, Sand trap for oil-well. S. W. Bateman. No. 1,430,146; Sept. 26.
- Pumps, Screen for lubricator. W. J. Schlacks. No. 1,413,066; Apr. 18.
- Pumps, Standing valve for. R. M. Stafford. No. 1,425,710; Aug. 15.
- Pumps, Starting device for hydraulic. A. O. Urban. No. 1,403,138; Jan. 10.
- Pumps, Stuffing box for. H. E. Pelletier. No. 1,435,974; Nov. 21.
- Pumps, Suction intake for. J. B. Fisher. No. 1,421,440; July 4.
- Punch. A. Beck. No. 1,417,488; May 30.
- Punch. A. H. Inglis. No. 1,413,277; Apr. 18.
- Punch. H. Rosenberg. No. 1,411,809; Apr. 4.
- Punch. H. Rosenberg. No. 1,418,474; June 6.
- Punch and die apparatus. R. Rittmeyer. No. 1,406,081; Feb. 7.
- Punch and die for angle smith work. D. Scouler. No. 1,428,344; Sept. 5.
- Punch and die set. S. Diamant. No. 1,423,917; July 25.
- Punch press. J. A. Luther. Nos. 1,428,175-6; Sept. 5.
- Punch press. R. M. MacGregor. No. 1,417,539; May 30.
- Punch-press guard. B. D. Rhodes. No. 1,416,511; May 16.
- Punch presses, Automatic feed for. J. Marian. No. 1,407,699; Feb. 28.
- Punch presses, Automatic feed mechanism for. H. C. H. Walsh. No. 1,406,310; Feb. 14.
- Punch presses, Feeding device for. E. E. Blattner. No. 1,434,192; Oct. 31.
- Punch presses, Safety attachment for. W. A. Brower. No. 1,418,525; June 6.
- Punch, Rotary. J. Q. Saerman. No. 1,423,690; July 25.
- Punch, Shank and bit. J. Ditson and A. E. Peters. No. 1,408,935; Mar. 7.
- Punching and setting machine. H. C. Hinchcliff. No. 1,437,245; Nov. 28.
- Punching, drilling, or like machines, Spacing feed mechanism for work in. J. Paris. No. 1,435,418; Nov. 14.
- Punching jig. L. Goehr. No. 1,420,252; June 20.
- Punching machine. C. W. Spicer. No. 1,424,856; Aug. 8.
- Punching machine. L. Streibel. No. 1,417,867; May 30.
- Punching machine, Metal-. G. P. Kline. No. 1,415,246; May 9.
- Punching machines, Gag-operating attachment for metal-. F. S. Donley and J. Welsh. No. 1,414,555; May 2.
- Punching machines, Vamp gauge for. H. R. Stanbon. No. 1,430,697; Oct. 3.
- Punching presses, Safety device for. J. A. Van Horn. No. 1,405,466; Feb. 7.
- Punching tool. L. A. Foote. No. 1,407,056; Feb. 21.
- Punches and dies, Machine for fitting. G. Remmsnider. No. 1,431,253; Oct. 10.
- Punches, Safety device for. C. F. Wright. No. 1,433,329; Oct. 24.
- Puncture-healing tube. P. Harder. No. 1,429,031; Sept. 12.
- Puppet or marionette show. T. Mathews. No. 1,403,514; Jan. 17.
- Purifying materials. W. E. Trent. Nos. 1,420,164-5; June 20.
- Purse. H. Riis and J. M. Fontanals. No. 1,437,362; Nov. 28.
- Purse and memorandum book, Combined change. S. Swartz. No. 1,438,145; Dec. 5.
- Purse and vanity-case frame, Combined. I. J. Levy. No. 1,422,724; July 11.
- Purse, Garter. E. A. Kendall. No. 1,409,866; Mar. 14.
- Purse, Safety. J. Meisner. No. 1,425,889; Aug. 15.
- Push-button switch. E. E. Rose and P. L. Mardis. No. 1,425,697; Aug. 15.
- Push-button switch, Double-circuit. D. P. Ragenovich. No. 1,439,839; Dec. 26.
- Push-button switch, Selective-circuit. S. Hamilton. No. 1,437,891; Dec. 5.
- Pushpin, Double-pointed. R. H. David. No. 1,413,833; Apr. 25.
- Push rod or tappet, Adjustable. W. F. Gorton. No. 1,403,682; Jan. 17.
- Puttee trimmer. A. Hughes. No. 1,437,309; Nov. 28.
- Puttees, Securing means for spiral. J. S. Ott. No. 1,402,952; Jan. 10.
- Puzzle. S. H. Colen. No. 1,438,746; Dec. 12.
- Puzzle. C. H. Hammond. No. 1,410,295; Mar. 21.
- Puzzle. J. Hyde. No. 1,439,670; Dec. 19.
- Puzzle. O. Owens. No. 1,413,186; Apr. 18.
- Puzzle. E. M. Smith. No. 1,439,336; Dec. 19.
- Puzzle. T. C. Washington. No. 1,431,496; Oct. 10.
- Puzzle device, Picture. J. J. Kennedy. No. 1,415,245; May 9.
- Puzzle, Movable-block. M. Bulister. No. 1,415,625; May 9.
- Pyridine from ammonium-sulphate solutions, Recovery of. F. W. Sperr, Jr., and R. L. Brown. No. 1,414,441; May 2.
- Pyrogallol, Purification of. D. J. Cutrona, R. B. McCann, and D. W. Bissell. No. 1,434,593; Nov. 7.
- Pyrotechnic composition. H. J. Nichols. No. 1,419,295; June 13.
- Pyrotechnic composition. W. T. Scheele. No. 1,423,264; July 18.
- Pyroxilin composition and making same. W. G. Lindsay. No. 1,430,020; Sept. 26.
- Quantity regulator. E. Nevins. No. 1,411,124; Mar. 28.
- Quick-acting multiple purpose implement. B. F. B. Sewell. No. 1,412,293; Apr. 11.
- Quick-combustion engine, Two-cycle. W. G. Gernandt. No. 1,411,012; Mar. 28.
- Quick-detachable coupling. J. A. White. No. 1,428,408; Sept. 5.
- Quoin. M. O. Cooper. No. 1,434,875; Nov. 7.
- Rabble device, Mechanical. L. B. Skinner. No. 1,404,902; Jan. 11.
- Rabble device, Mechanical. L. B. Skinner. No. 1,420,501; June 20.
- Rabbling machine. A. J. Tingleaf. No. 1,413,201; Apr. 18.
- Race, Rowing. R. Sato and C. Matsui. No. 1,425,058; Aug. 8.
- Race totalizer. G. A. Julius. No. 1,409,216; Mar. 14.
- Rack: See—
- Bag rack.
 - Ball rack.
 - Battery rack.
 - Bookrack.
 - Calender rack.
 - Charging rack.
 - Clothes-drying rack.
 - Clothes-hanger rack.
 - Collapsible canning rack.
 - Corn rack.
 - Curved rack.
 - Dish-drying rack.
 - Display rack.
 - File rack.
 - Foldable rack.
 - Garment rack.
 - Gear rack.
 - Golf-club rack.
 - Hitch rack.
 - Leading rack.
 - Luggage rack.
 - Pan rack.
 - Photograph-record rack.
 - Photographic film rack.
 - Printer's chase rack.
 - Receiving rack.
 - Record-filing rack.
 - Sectional floor rack.
 - Shoe rack.
 - Spool rack.
 - Stone dry rack.
 - Supporting rack.
 - Tire rack.
 - Towel rack.
 - Trunk garment-holding rack.
 - Unloading rack.
 - Wardrobe rack.
 - Wardrobe-trunk rack.
 - Yarn rack.
- Rack. B. M. Lindhe. No. 1,404,778; Jan. 31.
- Rack. C. W. May. No. 1,412,664; Apr. 11.
- Rack, G. A. Pattberg and J. E. Faustina. No. 1,404,477; Jan. 24.
- Rack. G. W. Wakeham. No. 1,407,607; Feb. 21.
- Rack. E. B. Weston. No. 1,427,247; Aug. 29.
- Rack. F. J. Wolff and A. H. Wegener. No. 1,427,142; Aug. 29.
- Rack and cover, Banana. L. C. Schmidt. No. 1,414,712; May 2.
- Rack and gear cutting machine. H. F. Jorgensen. No. 1,404,205; Jan. 24.
- Rack, Foldable. H. L. Bates. No. 1,407,912; Feb. 28.
- Rack or card, Appointment. Z. Auerbach. No. 1,414,720; May 2.
- Radiant energy, Receiving system for. J. H. Hammond, Jr. No. 1,439,363; Dec. 19.
- Radiant-energy-receiving systems, Marine trailer for. J. H. Hammond, Jr. No. 1,424,641; Aug. 1.
- Radiant energy, System for control of bodies by. J. H. Hammond, Jr. Nos. 1,418,788-9; June 6.
- Radiant energy, System for control of moving bodies by. J. H. Hammond, Jr. Nos. 1,418,791-2; June 6.
- Radiant energy, Transmission system for. J. H. Hammond, Jr. No. 1,425,523; Aug. 15.
- Radiating system, Portable. A. A. Oswald. No. 1,418,729; June 6.
- Radiator: See—
- Automobile radiator.
- Radiator. H. F. Ackerman and J. F. Habben. No. 1,405,381; Feb. 7.
- Radiator. R. V. Bangay. No. 1,437,039; Nov. 28.
- Radiator. A. Bretagne. No. 1,406,256; Feb. 14.
- Radiator. A. W. Caps. No. 1,417,026; May 23.
- Radiator. E. B. Cushman. No. 1,417,037; May 23.
- Radiator. C. H. de La Monte. No. 1,404,304; Jan. 24.
- Radiator. C. W. Dippert. No. 1,440,139; Dec. 26.
- Radiator. G. E. Elliott. No. 1,420,917; June 27.
- Radiator. W. A. Finlayson. No. 1,411,334; Apr. 4.
- Radiator. J. D. Flood. No. 1,440,217; Dec. 26.
- Radiator. W. R. Gordon. No. 1,439,959; Dec. 26.
- Radiator. C. W. Gross. No. 1,428,481; Sept. 5.
- Radiator. V. Habib and L. Benmayor. No. 1,412,862; Apr. 18.
- Radiator. R. M. Hood and W. F. Goodnow. No. 1,411,659; Apr. 4.
- Radiator. J. A. Hromadko. No. 1,413,163; Apr. 18.
- Radiator. J. Ingels. No. 1,403,784; Jan. 17.
- Radiator. T. J. Kehoe. No. 1,410,102; Mar. 21.
- Radiator. I. W. Knight. No. 1,433,955; Oct. 31.
- Radiator. A. V. Knoll. No. 1,407,428; Feb. 21.
- Radiator. R. J. McCredie. No. 1,407,554; Feb. 21.
- Radiator. E. Ochsner. No. 1,421,542; July 4.
- Radiator. D. O. Parkin. No. 1,421,546; July 4.
- Radiator. R. A. Sellman. No. 1,411,877; Apr. 4.
- Radiator. P. A. Sturtevant. No. 1,428,718; Sept. 12.
- Radiator. A. L. Taute. No. 1,420,590; June 20.
- Radiator alarm. J. G. Nolen. No. 1,408,022; Feb. 28.
- Radiator and electric heating fireplace. L. M. Specht. No. 1,433,915; Oct. 31.
- Radiator and thermostat unit construction. J. G. Vincent. No. 1,409,072; Mar. 7.

Alphabetical list of inventions—Continued.

- Radiator attachment. J. J. Desjardins. No. 1,417,504; May 30.
- Radiator attachment. F. Gade. No. 1,417,312; May 23.
- Radiator. Automobile. A. P. Andersen. No. 1,408,060; Feb. 28.
- Radiator. Automobile. S. Berman. No. 1,404,005; Jan. 17.
- Radiator. Automobile. E. L. Emory. No. 1,408,995; Mar. 7.
- Radiator. Automobile. E. J. Feeny. No. 1,424,455; Aug. 1.
- Radiator. Automobile. A. H. Leipert. No. 1,403,860; Jan. 17.
- Radiator. Automobile. F. M. Opitz. No. 1,404,159; Jan. 17.
- Radiator. Automobile. N. Para. No. 1,408,631; Mar. 7.
- Radiator bracket. M. D. Woodling. No. 1,408,556; Mar. 7.
- Radiator bracket, Wall-. G. C. Clanton. No. 1,422,177; July 11.
- Radiator cap. J. F. Bland. No. 1,435,800; Nov. 14.
- Radiator cap. J. H. Gosnell. No. 1,428,161; Sept. 5.
- Radiator cap. H. E. Maurer, jr. No. 1,431,123; Oct. 3.
- Radiator cap. E. E. Mazzullo. No. 1,429,751; Sept. 19.
- Radiator cap. T. M. Roberts. No. 1,402,126; Jan. 3.
- Radiator cap. V. Rosenlof. No. 1,433,912; Oct. 31.
- Radiator cap. A. H. Waline and T. M. Roberts. No. 1,402,125; Jan. 3.
- Radiator caps, Lock for. F. N. Brown, Jr. No. 1,415,517; May 9.
- Radiator casing. C. M. Berry. No. 1,436,853; Nov. 28.
- Radiator composition. O. B. and L. Foster. No. 1,407,995; Feb. 28.
- Radiator construction. J. B. D. L. Chardard. No. 1,416,944; May 23.
- Radiator construction. C. W. Cole. No. 1,407,929; Feb. 28.
- Radiator construction. P. Mathes. No. 1,417,087; May 23.
- Radiator construction. J. W. McFarland. No. 1,410,531; Mar. 21.
- Radiator construction. B. L. Rogers. No. 1,409,198; Mar. 14.
- Radiator construction. F. B. Wentworth. No. 1,426,235; Aug. 15.
- Radiator core. M. Emmer and W. Nathanson. No. 1,419,111; June 6.
- Radiator core. G. A. Houseman. No. 1,433,374; Oct. 24.
- Radiator core. J. A. Kuenz. No. 1,429,440; Sept. 19.
- Radiator core. A. B. Modine. No. 1,416,570; May 16.
- Radiator core. F. M. Opitz. No. 1,401,160; Jan. 17.
- Radiator core. V. Schreiner. No. 1,429,644; Sept. 19.
- Radiator core. J. Sorensen. No. 1,414,440; May 2.
- Radiator core. C. F. and J. H. Sperry. No. 1,425,146; Aug. 8.
- Radiator core. C. F. Sperry. No. 1,434,853; Nov. 7.
- Radiator cores, Making. T. J. Kehoe. No. 1,404,030; Jan. 17.
- Radiator cover. H. O. Porter. No. 1,402,651; Jan. 3.
- Radiator cover. W. S. Runnels. No. 1,422,306; July 11.
- Radiator cover-operating means. G. R. Janssen. No. 1,404,527; Jan. 24.
- Radiator. Detachable-core. A. B. Modine. No. 1,433,398; Oct. 24.
- Radiator, Electric. H. H. Berry. No. 1,415,770; May 9.
- Radiator, Electric. C. F. Smith and G. E. Curtiss. No. 1,423,039; July 18.
- Radiator, Electric. J. G. Wallmann. No. 1,430,706; Oct. 3.
- Radiator, Electrically-heated. J. H. Mills. No. 1,406,057; Feb. 7.
- Radiator, Engine. A. W. Caps. No. 1,417,027; May 23.
- Radiator filler, Collapsible folding. J. C. Self and J. B. Tweed. No. 1,430,691; Oct. 3.
- Radiator for gas heating by incandescence. A. Garbarini. No. 1,427,371; Aug. 29.
- Radiator for motor vehicles. B. P. F. Deane. No. 1,416,337; May 16.
- Radiator funnel. W. E. Abbott. No. 1,420,011; June 20.
- Radiator funnel. G. A. Horstkotte. No. 1,420,039; June 20.
- Radiator, Gas. D. M. Bowen. No. 1,413,826; Apr. 25.
- Radiator, Gas. S. Toles. No. 1,438,412; Dec. 12.
- Radiator, Gas-engine. F. Todd. No. 1,413,302; Apr. 18.
- Radiator, Gas water. J. G. Meyer. No. 1,402,522; Jan. 3.
- Radiator guard. C. Michaels. No. 1,411,121; Mar. 28.
- Radiator guard. M. H. Peacock. No. 1,431,595; Oct. 10.
- Radiator hanger. B. D. Evans. No. 1,407,263; Feb. 21.
- Radiator hanger. J. W. Farley. No. 1,428,767; Sept. 12.
- Radiator hanger. J. A. and J. H. Healy. No. 1,436,763; Nov. 28.
- Radiator hanger. J. W. Moore. No. 1,425,891; Aug. 15.
- Radiator holder. J. L. Fiscus. No. 1,429,575; Sept. 19.
- Radiator, Motor-vehicle. J. B. D. L. Chardard. No. 1,416,945; May 23.
- Radiator or tank cap. C. H. Wigzell. No. 1,434,322; Oct. 31.
- Radiator outlet. C. F. Sperry. No. 1,413,624; Apr. 25.
- Radiator pet-cock attachment. M. H. Bose. No. 1,422,919; July 18.
- Radiator, Portable self-heating hot-water. F. C. Brown. No. 1,433,065; Oct. 24.
- Radiator protector. R. L. Cowles. No. 1,436,482; Nov. 21.
- Radiator protector. A. E. Mood. No. 1,428,179; Sept. 5.
- Radiator protector. R. C. Stewart. No. 1,435,345; Nov. 14.
- Radiator protector and air-control device. L. D. Potter. No. 1,407,216; Feb. 21.
- Radiator-repair machine. C. E. Schulz. No. 1,405,340; Jan. 31.
- Radiator-repair machine. C. E. Schulz. No. 1,410,410; Mar. 21.
- Radiator saddle. C. A. Erickson. No. 1,411,611; Apr. 4.
- Radiator, Sectional. R. Oshkosh. No. 1,423,449; July 18.
- Radiator shutter. T. Donaldson. No. 1,439,074; Dec. 19.
- Radiator shutter. T. A. Morris. No. 1,411,866; Apr. 4.
- Radiator shutter, Rolling. S. R. Collingwood. No. 1,421,174; June 27.
- Radiator support. A. Kehm. No. 1,429,742; Sept. 19.
- Radiator support, Wall-. A. Lettich. No. 1,419,575; June 13.
- Radiator tanks, Alarm mechanism for. L. C. Gobetz. No. 1,430,073; Sept. 26.
- Radiator-testing apparatus. G. S. Hall. No. 1,432,065; Oct. 17.
- Radiator tube. A. E. Hughes and J. Dilworth. No. 1,412,056; Apr. 11.
- Radiator tube. F. F. Jungerheld. No. 1,417,387; May 23.
- Radiator unit, Automobile. J. V. Giesler. No. 1,411,487; Apr. 4.
- Radiator vent, Steam-. W. McDonald. No. 1,424,663; Aug. 1.
- Radiator with adjustable control. G. F. Dodge. No. 1,429,413; Sept. 19.
- Radiators, Anchorage for automobile. A. P. Wolfe. No. 1,405,245; Jan. 31.
- Radiators and engines, Heater for automobile. W. E. Wilson. No. 1,414,539; May 2.
- Radiators and feed doors, Forming connecting collars for. R. W. Kruse. No. 1,438,767; Dec. 12.
- Radiators and the like, Leak-stopping composition for. T. Dolan. No. 1,413,524; Apr. 18.
- Radiators, Apparatus for repairing and testing. A. Horn. No. 1,419,260; June 13.
- Radiators, Cooler for internal-combustion-engine. S. Baruch. No. 1,411,900; Apr. 4.
- Radiators, Drainage tank for automobile. W. H. Day. No. 1,422,679; July 11.
- Radiators, etc., Draining device for motor-vehicle. J. Fisher. No. 1,424,636; Aug. 1.
- Radiators, Humidifying attachment for. P. T. Jackson. No. 1,418,150; May 30.
- Radiators, Locking cap for automobile. H. S. Pardee. No. 1,422,372; July 11.
- Radiators, Repairing automobile. W. L. Walter. No. 1,405,880; Feb. 7.
- Radiators, Screw-socket connection for. F. F. Forshee. No. 1,425,638; Aug. 15.
- Radiators, Shield for motor. E. J. Askren, J. F. Worman, and C. F. Zwick. No. 1,421,120; June 27.
- Radiators, Trap bushing for. F. J. Vaux. No. 1,402,389; Jan. 3.
- Radiators, Wall-hanger for. J. W. Moore. No. 1,410,110; Mar. 21.
- Radio apparatus. J. B. Nowlan. No. 1,437,772; Dec. 2.
- Radio apparatus, Combined knob and dial for. R. W. Tait. No. 1,420,295; June 20.
- Radio apparatus, Power system for. H. M. Stoller. No. 1,411,814; Apr. 4.
- Radio-circuit. R. Bown. No. 1,433,599; Oct. 31.
- Radio controlling device. E. T. Jones. No. 1,415,170; May 9.
- Radiocontrol of moving bodies, System for the. J. H. Hammond, Jr. No. 1,420,258; June 20.
- Radio direction finder. J. Robinson. No. 1,435,941; Nov. 21.
- Radiodynamic control of gyroscopes. J. H. Hammond, Jr. No. 1,418,790; June 6.
- Radiodynamic occulting system. J. H. Hammond, Jr. No. 1,419,377; June 13.
- Radiodynamic torch-launching mechanism. J. H. Hammond, Jr. No. 1,418,870; June 6.
- Radioelectron oscillator. C. R. Fountain. No. 1,424,091; July 25.
- Radiofrequency transformer. P. D. Lowell. No. 1,439,563; Dec. 19.
- Radiogoniometer. G. M. Wright. No. 1,426,137; Aug. 15.
- Radiographic plate changer. A. Mutscheller and K. Stoye. No. 1,426,899; Aug. 22.
- Radiometer. M. W. Ryan and M. Uttendorfer. No. 1,422,378; July 11.
- Radio oscillation generator. R. R. Beal. No. 1,410,730; Mar. 28.
- Radio receiving apparatus. F. W. Dunmore. No. 1,405,905; Feb. 7.
- Radio receiving apparatus. H. M. Williamson. No. 1,439,495; Dec. 19.
- Radio receiving system. H. H. Beverage. Nos. 1,434,984-6; Nov. 7.
- Radio receiving system. L. Cohen. No. 1,406,442; Feb. 14.
- Radio receiving system. E. W. Kellogg. No. 1,434,707; Nov. 7.
- Radio receiving system. E. W. Kellogg and C. W. Rice. No. 1,435,009; Nov. 7.
- Radio receiving system. R. H. Marriott. No. 1,407,205; Feb. 21.

- Radio receiving system having high selectivity. M. I. Pupin and E. H. Armstrong. No. 1,416,061; May 16.
- Radiosensitive element. H. W. Van Allen. No. 1,431,271; Oct. 10.
- Radiosignal receiving apparatus. R. A. Weagant. No. 1,438,347; Dec. 12.
- Radiosignaling. E. H. Loftin and H. H. Lyon. No. 1,424,365; Aug. 1.
- Radiosignaling apparatus. W. H. Nottage. No. 1,432,354; Oct. 17.
- Radiosignaling, Apparatus for preventing static interference in. R. A. Weagant. No. 1,426,133; Aug. 15.
- Radiosignaling system. E. F. W. Alexanderson. No. 1,426,944; Aug. 22.
- Radiosignaling system. L. de Forest. No. 1,417,662; May 30.
- Radiosignaling system. E. C. Hanson and E. T. Jones. No. 1,429,240; Sept. 19.
- Radiosignals, Apparatus for receiving. R. A. Weagant. No. 1,425,154; Aug. 8.
- Radiosignals, Device for receiving. C. Bardoni. No. 1,416,774; May 23.
- Radiosignals with the compound heterodyne, Receiving. A. H. Taylor and L. C. Young. No. 1,414,232; Apr. 25.
- Radio systems, Coupling transformer for. R. S. Piper. No. 1,438,854; Dec. 12.
- Radiotelegraphic coupling. J. Bethenod. No. 1,427,350; Aug. 29.
- Radiotelegraphic coupling. J. Bethenod. No. 1,432,438; Oct. 17.
- Radiotelegraphy. F. S. McCullough. No. 1,427,833; Sept. 5.
- Radio telegraphy and telephony, Receiving system for. F. K. Vreeland. No. 1,407,103; Feb. 21.
- Radiotelephony. F. S. McCullough. No. 1,427,832; Sept. 5.
- Radiotherapeutical shield. M. A. Pugh. No. 1,406,488; Feb. 14.
- Radiotransmission. H. W. Nichols. No. 1,422,882; July 18.
- Radiotransmission systems, Antenna for. J. H. Hammond, Jr. No. 1,420,255; June 20.
- Radiotransmitting system. T. R. Bunting. No. 1,418,066; May 30.
- Radium applicator. C. H. Viol. No. 1,406,509; Feb. 14.
- Radium emergency light. W. S. Neisen. No. 1,412,955; Apr. 18.
- Radius rod, Adjustable. W. L. Skinner. No. 1,437,562; Dec. 5.
- Radius rod and engine base, Bridge. B. Carlin. No. 1,435,104; Nov. 7.
- Radius tool. A. Sheberashenko. No. 1,415,903; May 16.
- Raft, Life. H. W. Broady. No. 1,422,657; July 11.
- Raft, Life. L. W. Myers. No. 1,434,402; Nov. 7.
- Rafter framer. R. C. Browning. No. 1,412,162; Apr. 11.
- Rail. E. Matuszewski. No. 1,431,018; Oct. 3.
- Rail. D. A. Pry. No. 1,420,216; June 20.
- Rail anchor. L. J. Berkeley. No. 1,428,578; Sept. 12.
- Rail anchor. R. A. Blair. Nos. 1,434,524; 5; Nov. 7.
- Rail anchor. J. A. Bodkin. Nos. 1,431,093-4; Oct. 3.
- Rail anchor. C. G. Ericson. No. 1,402,852; Jan. 10.
- Rail anchor. J. P. Hare. No. 1,402,859; Jan. 10.
- Rail anchor. H. P. McFarland. No. 1,405,064; Feb. 7.
- Rail anchor. W. M. Mitchell. No. 1,408,625; Mar. 7.
- Rail anchor. F. W. Peters. No. 1,435,731; Nov. 14.
- Rail anchor. E. B. Slick. No. 1,417,473; May 23.
- Rail anchor. A. L. Stanford. No. 1,406,295; Feb. 14.
- Rail anchor. H. G. Warr. Nos. 1,415,743-4; May 9.
- Rail anchor. H. G. Warr. Nos. 1,425,223-4; Aug. 8.
- Rail anchor. H. G. Warr. No. 1,436,301; Nov. 21.
- Rail anchor. J. F. Wenterwest. No. 1,406,594; Feb. 14.
- Rail anchor and making same. H. G. Warr. No. 1,404,500; Jan. 24.
- Rail-anchoring device. W. M. Osborn. No. 1,413,055; Apr. 18.
- Rail and means of applying the same, Guard. R. D. Gallagher. No. 1,439,090; Dec. 19.
- Rail and wheel tread. C. E. Scott. No. 1,420,389; June 20.
- Rail attachment. J. Hitzert. No. 1,426,192; Aug. 15.
- Rail, Ball-bearing. J. Pierpoint. No. 1,404,641; Jan. 24.
- Rail bender. B. E. Drummond. No. 1,413,527; Apr. 18.
- Rail bender. H. Rodgers. No. 1,425,135; Aug. 8.
- Rail-bending device. K. Bye and P. Werle. No. 1,420,179; June 20.
- Rail board and making same. C. A. Cadwell. No. 1,412,269; Apr. 11.
- Rail bolt. F. Szymanski, A. and P. Dudek. No. 1,437,871; Dec. 5.
- Rail bond. J. G. Kjellgren. No. 1,434,214; Oct. 31.
- Rail bond. C. A. Parker. No. 1,430,110; Sept. 26.
- Rail-bond tester. C. E. Vawter. No. 1,426,620; Aug. 22.
- Rail-bonding tool. N. K. Bowman. No. 1,433,775; Oct. 31.
- Rail bonds, Manufacturing. H. V. Linderman. No. 1,426,397; Aug. 22.
- Rail brace. M. Jicha. No. 1,407,865; Feb. 28.
- Rail brace. P. T. Jones. No. 1,406,652; Feb. 14.
- Rail brace. J. Lindermuth. No. 1,437,430; Dec. 5.
- Rail brace, Adjustable. J. L. Bell. No. 1,407,368; Feb. 21.
- Rail brace, Adjustable. D. Fairback. No. 1,413,016; Apr. 18.
- Rail braces, Adjustable backing for. F. Rapp. No. 1,426,772; Aug. 22.
- Rail chair. C. Malitch. No. 1,411,738; Apr. 4.
- Rail chair. C. Malitch. No. 1,423,534; July 25.
- Rail chair. L. A. Matthews. No. 1,403,906; Jan. 17.
- Rail chair. A. van Zile. No. 1,404,076; Jan. 17.
- Rail clamp. D. Ambrose. No. 1,418,122; May 30.
- Rail clamp. W. Houston. No. 1,410,678; Mar. 28.
- Rail clamp. E. B. Taggart. No. 1,425,915; Aug. 15.
- Rail clamp, Adjustable. R. D. Gallagher. Nos. 1,439,087-8; Dec. 19.
- Rail clamp, Extension-. W. F. Henke. No. 1,427,737; Aug. 29.
- Rail clamp, Guard-. H. G. Warr. No. 1,415,742; May 9.
- Rail clamp, Guard-. E. C. Zimmerman. No. 1,418,120; May 30.
- Rail clamp, Self-adjusting guard-. C. A. Psilander. No. 1,414,708; May 2.
- Rail, Conductor. E. B. Grace and W. J. Laffey. No. 1,416,192; May 16.
- Rail connection. J. Garduliz. No. 1,402,158; Jan. 3.
- Rail connection, Nonseparating. L. Beltrami. No. 1,413,378; Apr. 18.
- Rail connector. W. H. Kirkwood. No. 1,417,531; May 30.
- Rail, Divided. J. A. Letherby. No. 1,424,657; Aug. 1.
- Rail-drilling device. P. G. Bodwell. No. 1,416,600; May 16.
- Rail expander and contractor. A. L. Warner. No. 1,412,639; Apr. 11.
- Rail fastener. G. C. Eichensehr and J. E. Niesner. No. 1,412,850; Apr. 18.
- Rail fastener. J. P. Gardner. No. 1,421,682; July 4.
- Rail fastener. J. Lazowski. Nos. 1,402,506-7; Jan. 3.
- Rail fastener. E. M. McVicker. No. 1,414,784; May 2.
- Rail fastener. J. Mészáros and F. Molnar. No. 1,404,992; Jan. 31.
- Rail fastener. E. H. Phillips. No. 1,427,629; Aug. 29.
- Rail fastener, Track. A. Brzostowski. No. 1,438,577; Dec. 12.
- Rail fastening. L. D. Gregg. No. 1,421,457; July 4.
- Rail fastening. E. S. Rayner. No. 1,402,655; Jan. 3.
- Rail-fastening device. W. R. Gorrell and H. Barkschat. No. 1,402,760; Jan. 10.
- Rail-fastening device. D. E. Kent. No. 1,413,462; Apr. 18.
- Rail-fastening means. S. B. Kull. No. 1,419,865; June 13.
- Rail-fastening means. J. Zotkiewicz. No. 1,408,058; Feb. 28.
- Rail feed, Automatic. V. Sincovitz. No. 1,408,411; Feb. 28.
- Rail for pig inclosures, Guard. E. C. Peterke. No. 1,408,906; Mar. 7.
- Rail frog. G. Delk. No. 1,428,220; Sept. 5.
- Rail, Guard. F. Sherman. No. 1,439,267; Dec. 19.
- Rail guard, Switch-. F. C. Anderson. No. 1,414,767; May 2.
- Rail, Hand. A. E. Matthews. No. 1,405,309; Jan. 31.
- Rail holder. W. E. Apt. No. 1,412,264; Apr. 11.
- Rail-holding plate. J. Handen. No. 1,419,046; June 6.
- Rail, Integral guard. V. Angerer. No. 1,411,827; Apr. 4.
- Rail, Integral guard. V. Angerer. No. 1,421,342; June 27.
- Rail joint. A. J. Beck. No. 1,438,356; Dec. 12.
- Rail joint. E. R. Britcher. No. 1,410,364; Mar. 21.
- Rail joint. E. H. Brunner. No. 1,403,938; Jan. 17.
- Rail joint. I. J. Buff. No. 1,406,533; Feb. 14.
- Rail joint. M. Carapina and F. Nevistich. No. 1,430,055; Sept. 26.
- Rail joint. J. W. Clark. Nos. 1,434,481-2; Nov. 7.
- Rail joint. C. A. Disbrow. No. 1,429,935; Sept. 26.
- Rail joint. E. Fixter. No. 1,419,728; June 13.
- Rail joint. C. W. Gaskey. No. 1,425,468; Aug. 8.
- Rail joint. L. Grzoso. No. 1,427,287; Aug. 29.
- Rail joint. C. R. Hall. No. 1,432,549; Oct. 17.
- Rail joint. J. W. Heldreth. No. 1,435,522; Nov. 14.
- Rail joint. J. Hruska. No. 1,429,431; Sept. 19.
- Rail joint. F. E. Huss and W. W. Momsen. No. 1,427,739; Aug. 29.
- Rail joint. T. Kozlosky and E. C. Kostowski. No. 1,404,976; Jan. 31.
- Rail joint. J. A. Lewis and L. L. Rew. No. 1,419,973; June 20.
- Rail joint. H. L. Lyle. No. 1,428,107; Sept. 5.
- Rail joint. L. G. McAlister. No. 1,435,122; Nov. 7.
- Rail joint. R. P. McCabe. No. 1,437,253; Nov. 28.
- Rail joint. J. B. Murray. No. 1,413,765; Apr. 25.
- Rail joint. J. B. Murray. No. 1,425,036; Aug. 8.
- Rail joint. J. B. Murray. No. 1,433,840; Oct. 31.
- Rail joint. J. B. Murray. No. 1,436,775; Nov. 28.
- Rail joint. W. S. Nichols. No. 1,435,019; Nov. 7.
- Rail joint. W. J. Quinn. No. 1,432,301; Oct. 17.
- Rail joint. W. K. Rudder. No. 1,409,200; Mar. 14.
- Rail joint. N. E. Salsich. Nos. 1,432,304-5; Oct. 17.
- Rail joint. F. Sebestakowicz. No. 1,411,525; Apr. 4.
- Rail joint. D. Smith. No. 1,429,543; Sept. 19.
- Rail joint. J. D. Sturgeon. No. 1,434,456; Nov. 7.
- Rail joint. J. A. Tweit. No. 1,426,618; Aug. 22.
- Rail joint. J. W. Webb. No. 1,432,930; Oct. 24.
- Rail joint. S. R. Weeks and C. C. Brown. No. 1,416,144; May 16.
- Rail joint. W. F. Zawisza. No. 1,438,079; Dec. 5.
- Rail joint. J. Zelinsky. No. 1,425,736; Aug. 15.
- Rail joint. M. Zielinski. No. 1,410,983; Mar. 28.
- Rail joint. J. J. Znak. No. 1,414,450; May 2.

Alphabetical list of inventions—Continued.

- Rail joint and car replacer. C. L. Petty. No. 1,416,504; May 16.
- Rail joint and fastener. I. Mientkiewicz. No. 1,409,058; Mar. 7.
- Rail joint and fish plate. W. Woroniecki. No. 1,402,130; Jan. 3.
- Rail-joint chair. R. Freeman. No. 1,427,948; Sept. 5.
- Rail-joint chair. J. J. Markovich. No. 1,420,566; June 20.
- Rail joint, Fabricated. C. A. Disbrow. No. 1,429,936; Sept. 26.
- Rail-joint fastener. S. Papp. No. 1,425,683; Aug. 15.
- Rail joint, Frictionless. O. J. Lentz. No. 1,429,895; Sept. 19.
- Rail joint, Insulated. L. E. Barr. No. 1,436,468; Nov. 21.
- Rail-joint plate. A. J. Noble. No. 1,434,403; Nov. 7.
- Rail joint, Safety. W. and H. Rietschneider. No. 1,439,191; Dec. 19.
- Rail-joint supporter. D. B. McKenzie. No. 1,436,664; Nov. 28.
- Rail joint, Temporary. L. A. Welch. No. 1,420,070; June 20.
- Rail joint, Welded. E. M. T. Ryder. No. 1,422,623; July 11.
- Rail joints, Holder for insulating units in insulated. C. A. Disbrow. No. 1,408,725; Mar. 7.
- Rail joints, Means for balancing stresses in. B. G. Braine. No. 1,406,528; Feb. 14.
- Rail lock, Railway-. L. W. Harris. No. 1,407,999; Feb. 28.
- Rail plate, Anticreeper. J. E. Slovey. No. 1,440,249; Dec. 26.
- Rail, Ramp. A. G. Shaver. No. 1,433,973; Oct. 31.
- Rail, Road. J. Hickson. No. 1,435,005; Nov. 7.
- Rail section, Adjustable switch-point. P. Cameli. No. 1,438,296; Dec. 12.
- Rail-securing instrumentality. P. J. Conroy. No. 1,418,286; June 6.
- Rail spike. H. O. Crippen. No. 1,424,623; Aug. 1.
- Rail spike. F. Radelet and E. Bonnet. No. 1,437,551; Dec. 5.
- Rail spike and screw. F. Radelet and E. Bonnet. No. 1,430,259; Sept. 26.
- Rail-spike retainer. O. J. Carlson and A. and J. Fransen. No. 1,438,896; Dec. 12.
- Rail splice. S. George. No. 1,415,545; May 9.
- Rail splicer. M. Grisak. No. 1,418,915; June 6.
- Rail spotter, Adjustable standard-length-. H. A. Jones and E. W. Struve. No. 1,424,911; Aug. 8.
- Rail spring. E. Woodings. No. 1,416,152; May 16.
- Rail, Spring frog. J. H. Hardy. No. 1,425,253; Aug. 8.
- Rail support. J. Sadowski. No. 1,436,824; Nov. 28.
- Rail-supporting element. A. H. Anderson. No. 1,408,427; Mar. 7.
- Rail-supporting structure. W. P. Day. No. 1,420,974; June 27.
- Rail tie. M. E. Chamberlain. No. 1,431,631; Oct. 10.
- Rail tie. H. H. De Moss. No. 1,439,073; Dec. 19.
- Rail tie. J. V. Mayhew. No. 1,417,851; May 30.
- Rail tie. I. Plost. No. 1,419,643; June 13.
- Rail tie and fastener. P. G. Mood. No. 1,425,125; Aug. 8.
- Rail tie and fastener. A. Pokorny. No. 1,408,395; Feb. 28.
- Rail tie and fastening. J. K. Wedgworth. No. 1,436,839; Nov. 28.
- Rail-tie chair. J. J. Markovich. No. 1,405,607; Feb. 7.
- Rail-tie plate. J. J. Hess and N. Johnson. No. 1,428,378; Sept. 5.
- Rail-tie plate. J. T. Walker. No. 1,420,168; June 20.
- Railings and the like, Fitting for. A. Falk. No. 1,423,927; July 25.
- Rails, Anchor and clip for. F. W. Cooper and H. Steadworthy. No. 1,422,340; July 11.
- Rails and extracting spikes. Machine for removing. F. R. Mason and T. Fitzpatrick. No. 1,430,916; Oct. 3.
- Rails and the like, Apparatus for filing the surface of tramway. C. Oxley. No. 1,437,190; Nov. 28.
- Rails, Anticreeper and antispreading device for. H. B. Burke. No. 1,433,066; Oct. 24.
- Rails, Controlling device for ring. C. C. Wilson. No. 1,431,498; Oct. 10.
- Rails, Device for joining. W. D. Yocum. No. 1,405,886; Feb. 7.
- Rails in place, Means for securing. G. Roussel. Nos. 1,407,677-8; Feb. 21.
- Rails, Insulated joint for railway. T. O'Brien. No. 1,407,566; Feb. 21.
- Rails, Means for protecting third. W. Woroniecki. No. 1,410,440; Mar. 21.
- Rails, Process of and apparatus for tempering steel. H. A. Stock. No. 1,418,985; June 6.
- Rails, Tie plate for. E. N. Johnson. No. 1,422,983; July 18.
- Railway. P. L. Mathews. No. 1,417,088; May 23.
- Railway apparatus, Inclined. F. P. Schoberle. No. 1,438,266; Dec. 12.
- Railway-accident insurance, Device for providing. G. E. Dickson. No. 1,408,175; Feb. 28.
- Railway-accident insurance, Device for providing. G. E. Dickson. (Reissue.) No. 15,459; Sept. 26.
- Railway-accident preventer, Automatic. F. Ruby. No. 1,414,376; May 2.
- Railway, Amusement. E. F. von Tautphoeus. No. 1,430,203; Sept. 26.
- Railway and other vehicles, Coupling for. F. R. Rand and T. H. Sanders. No. 1,419,757; June 13.
- Railway appliance. J. Jones. No. 1,414,814; May 2.
- Railway brake. J. P. Carlson. No. 1,424,393; Aug. 1.
- Railway brake, Electric. W. H. Sauvage. No. 1,438,866; Dec. 12.
- Railway block systems, Safety appliance for. B. Fay. No. 1,432,325; Oct. 17.
- Railway, Compressed air and vacuum. F. G. Trask. No. 1,411,597; Apr. 4.
- Railway construction. A. K. Orzechowski. No. 1,406,887; Feb. 14.
- Railway construction and operation, Pleasure-. J. A. Miller. No. 1,409,750; Mar. 14.
- Railway coupling. H. W. Coston. No. 1,427,942; Sept. 5.
- Railway crossing. E. S. Abbott. No. 1,417,964; May 30.
- Railway crossing. V. Angerer. No. 1,428,514; Sept. 12.
- Railway crossing. A. E. Carlsson. No. 1,411,405; Apr. 4.
- Railway crossing. J. O. Clark. No. 1,433,603; Oct. 31.
- Railway crossing. J. H. Hardy. No. 1,425,472; Aug. 8.
- Railway crossing. J. H. Hardy. No. 1,426,292; Aug. 15.
- Railway crossing. J. F. Jacobs. No. 1,440,223; Dec. 26.
- Railway crossing. E. N. Strom and A. E. Blomstrand. No. 1,406,909; Feb. 14.
- Railway crossing. B. E. Wilson. (Reissue.) No. 15,391; June 20.
- Railway-crossing gate. A. W. Knee. No. 1,408,008; Feb. 28.
- Railway-crossing gate, Automatic. J. D. Clapper. No. 1,430,947; Oct. 3.
- Railway-crossing gate, Automatic. J. R. Golden. No. 1,438,822; Dec. 12.
- Railway-crossing-gate signal. R. E. Pierce. No. 1,426,839; Aug. 22.
- Railway crossing, Inserted-center. W. G. Nichols. No. 1,427,122; Aug. 29.
- Railway crossing, Noiseless. F. P. Yeomans. No. 1,407,778; Feb. 28.
- Railway crossing or frog and making the same. C. W. Breed. No. 1,412,161; Apr. 11.
- Railway-crossing signal. M. S. Hamilton and C. P. Brady. No. 1,432,598; Oct. 17.
- Railway-crossing signal. L. A. Lawhead. No. 1,418,660; June 6.
- Railway-crossing signal. J. K. Shivers. No. 1,431,051; Oct. 3.
- Railway-crossing signal mechanism. D. R. Rupert. No. 1,418,475; June 6.
- Railway crossings, Bridging device for. G. J. Giannacopoulos. No. 1,418,559; June 6.
- Railway crossings, Gate and gate-operating mechanism for. S. R. Payne. No. 1,437,071; Nov. 28.
- Railway crosstie. O. M. Knox. No. 1,413,917; Apr. 25.
- Railway crosstie. E. Landis. No. 1,425,104; Aug. 8.
- Railway crosstie. W. D. Stockly. No. 1,410,082; Mar. 21.
- Railway crosstie, Metallic. J. W. Herman and J. A. Hyle. No. 1,403,244; Jan. 10.
- Railway crosstie, Metallic. H. C. Odenkirk. No. 1,405,556; Feb. 7.
- Railway-dispatch-order support. L. H. Stean. No. 1,424,529; Aug. 1.
- Railway draft-gear yokes, Manufacture of. H. T. Anderson. No. 1,417,480; May 30.
- Railway draft-gear yokes, Manufacture of. H. T. Anderson. No. 1,419,346; June 13.
- Railway draft rigging, Manufacturing yokes for. B. W. Kadel. No. 1,439,671; Dec. 19.
- Railway, Elevated. J. B. Strauss. No. 1,425,805; Aug. 15.
- Railway, Elevated. J. B. Strauss. No. 1,427,920; Sept. 5.
- Railway fish-plate spike and nut lock. A. McDonald. No. 1,408,374; Feb. 28.
- Railway friction draft rigging. W. H. Miner and J. F. O'Connor. No. 1,416,113; May 16.
- Railway frog. G. S. Shaw. No. 1,402,098; Jan. 3.
- Railway frogs and product thereof, Making. C. A. Alden. No. 1,439,050; Dec. 19.
- Railway gate. B. Izzo. No. 1,419,856; June 13.
- Railway gate. M. Majcher. No. 1,437,532; Dec. 5.
- Railway gate, Automatic. H. Zakrzewski. No. 1,409,636; Mar. 14.
- Railway gate, Automatically-operated. L. Kokoval. No. 1,436,964; Nov. 28.
- Railway gate, Automatically-operated. J. Némety. No. 1,420,132; June 20.
- Railway gate, Electrical-control. J. H. Taylor and E. F. La Fray. No. 1,419,424; June 13.
- Railway-gate-operating mechanism. E. Christenson. No. 1,411,408; Apr. 4.
- Railway guard rail. F. Lindsay. No. 1,414,477; May 2.
- Railway, Light. W. Maloney. No. 1,431,536; Oct. 10.
- Railway lighting system. L. A. Watson. No. 1,417,787; May 30.
- Railway-locomotive wheels, Hub liner for. H. Cramer. No. 1,426,715; Aug. 22.
- Railway mail crane. W. S. Davidson. No. 1,414,690; May 2.
- Railway-mail-transfer apparatus. C. F. Stegmeier. No. 1,413,297; Apr. 18.
- Railway, Marine. L. S. Rosener and R. H. Taylor. No. 1,404,407; Jan. 24.
- Railway metal-tie appliance. C. Bradley and T. E. Kennedy. No. 1,434,586; Nov. 7.

Alphabetical list of inventions—Continued.

- Railway motor jack. G. M. Eaton. No. 1,431,939; Oct. 17.
 Railway motors, Gear for. W. E. Moore. No. 1,417,937; May 30.
 Railway, Pleasure. J. A. Miller. No. 1,409,751; Mar. 14.
 Railway rail. H. F. Merker. No. 1,438,323; Dec. 12.
 Railway-rail anchor. G. A. Prather. No. 1,416,576; May 16.
 Railway-rail anticreeping device. E. G. Wallinder. No. 1,411,318; Apr. 4.
 Railway-rail fastener. J. H. Collins. No. 1,411,163; Mar. 28.
 Railway-rail fastener. O. Ladd. No. 1,410,479; Mar. 21.
 Railway-rail fastening. O. P. Harris. No. 1,429,033; Sept. 12.
 Railway-rail joint. G. W. Duke. No. 1,404,282; Jan. 24.
 Railway-rail joint. J. A. Hyle and G. W. Whiteman. No. 1,418,930; June 6.
 Railway-rail joint. R. P. Owen and D. B. Straley. No. 1,439,574; Dec. 19.
 Railway-rail joint. E. G. Wallinder. No. 1,411,317; Apr. 4.
 Railway-rail mounting. M. Jicha. No. 1,434,823; Nov. 7.
 Railway rails, Anticreeper for. J. H. Larmonth. No. 1,430,240; Sept. 26.
 Railway rails, Anticreeper tie plate for. W. S. Weston. No. 1,417,366; May 23.
 Railway rails, Anticreeper device for. C. H. Knell. No. 1,416,474; May 16.
 Railway rails, Anticreeping device for. C. H. Knell. (Reissue.) No. 1,547,0; Oct. 17.
 Railway rails, Anticreeping device for. E. Woodings. Nos. 1,430,871-2; Oct. 3.
 Railway rails, Crossing bridge for. H. Topping. No. 1,404,810; Jan. 31.
 Railway rails, Fish joint for connecting. O. Jarvis. No. 1,411,278; Apr. 4.
 Railway rails, Fishplate for. R. N. Dithmer. No. 1,422,187; July 11.
 Railway rails, Indicator for downward deflection of. W. W. Wooster. No. 1,415,287; May 9.
 Railway rails, Joint rest for. R. J. Wells. No. 1,413,084; Apr. 18.
 Railway rails, Means for preventing creepage of. B. B. Greer. No. 1,432,179; Oct. 17.
 Railway roadbeds, Machine for removing weeds from. A. Scheuchzer. No. 1,402,663; Jan. 3.
 Railway, Roller-coaster. F. A. Church. No. 1,410,374; Mar. 21.
 Railway rolling stock, Buffer for. D. C. Davis. No. 1,420,183; June 20.
 Railway rolling stock, Device for rerailing. P. O. Weber. No. 1,436,419; Nov. 21.
 Railway safe-running device. A. R. Angus. No. 1,415,214; May 9.
 Railway safe-running device. A. R. Angus. No. 1,417,016; May 23.
 Railway safety appliance. W. T. Spillane. No. 1,426,922; Aug. 22.
 Railway safety control, Automatic. L. F. Hellmann and W. W. Baxter. (Reissue.) No. 15,343; Apr. 25.
 Railway safety switch. I. M. Brittain. No. 1,417,297; May 23.
 Railway signal. M. Gordon. No. 1,404,020; Jan. 17.
 Railway signal. R. A. McCann. No. 1,415,886; May 16.
 Railway signal and stop, Automatic. G. Ridley. No. 1,426,410; Aug. 22.
 Railway signal device. C. J. Miller. No. 1,424,509; Aug. 1.
 Railway signal fusee, compound therefor, and making same. L. S. Ross. No. 1,430,590; Oct. 3.
 Railway signaling. W. H. McClelland, Jr. No. 1,414,143; Apr. 25.
 Railway signaling and collision-prevention apparatus. W. Wright. No. 1,431,075; Oct. 3.
 Railway signaling and train-control system. J. A. Miller. No. 1,419,280; June 13.
 Railway signaling apparatus. E. H. Meden. No. 1,436,401; Nov. 21.
 Railway signaling apparatus. J. W. Kennedy. No. 1,421,252; June 27.
 Railway signaling device. O. Green. No. 1,423,318; July 18.
 Railway signaling device. K. L. Lehmann. No. 1,413,667; Apr. 25.
 Railway signal mechanism. J. P. Coleman. No. 1,405,494; Feb. 7.
 Railway signaling system. J. C. Field. No. 1,434,776; Nov. 7.
 Railway spike. H. Blair. No. 1,426,453; Aug. 22.
 Railway spike. J. A. Brown. No. 1,438,575; Dec. 12.
 Railway spike. H. E. Harris and J. H. Downey. No. 1,416,819; May 23.
 Railway spike. J. Hartley. No. 1,425,199; Aug. 8.
 Railway spike. E. Karrio. No. 1,428,962; Sept. 12.
 Railway spike. R. E. Osborne. No. 1,416,971; May 23.
 Railway spike. A. Plump. No. 1,409,403; Mar. 14.
 Railway spike. E. W. Smith. No. 1,407,893; Feb. 28.
 Railway spike. W. W. Stryker. No. 1,425,715; Aug. 15.
 Railway spreader. R. E. Bressler. No. 1,437,393; Dec. 5.
 Railway spreaders, Crust-breaker attachment for. O. C. Mann. No. 1,404,875; Jan. 31.
 Railway station indicator. A. Lucyshyn. No. 1,414,700; May 2.
 Railway structure, Pleasure-. J. A. Miller. No. 1,415,187; May 9.
 Railway, Suspended high-speed. R. Wagner. No. 1,422,394; July 11.
 Railway switch. I. Arteaga. No. 1,408,333; Feb. 28.
 Railway switch. J. D. Cooper. No. 1,422,836; July 18.
 Railway switch. A. Desrochers. No. 1,411,844; Apr. 4.
 Railway switch. C. G. Feucht. No. 1,432,104; Oct. 17.
 Railway switch. T. C. Folsom. No. 1,421,444; July 4.
 Railway switch. R. Hainsey. No. 1,408,503; Mar. 7.
 Railway switch. D. E. Lahey. No. 1,421,963; July 4.
 Railway switch. D. E. Lahey and N. A. Norton. No. 1,411,851; Apr. 4.
 Railway switch. D. E. Lahey. No. 1,435,012; Nov. 7.
 Railway switch. L. C. McAdams. No. 1,435,016; Nov. 7.
 Railway switch. C. J. Miller. No. 1,432,606; Oct. 17.
 Railway switch. J. T. Moore. No. 1,423,005; July 18.
 Railway switch. E. L. Nylund. No. 1,425,680; Aug. 15.
 Railway switch. H. R. Rail. No. 1,407,219; Feb. 21.
 Railway switch. J. S. Reid. No. 1,406,079; Feb. 7.
 Railway switch. H. Tanttila and J. Sorola. No. 1,427,563; Aug. 29.
 Railway switch and crossover. J. P. Hare. No. 1,411,019; Mar. 28.
 Railway switch and signal mechanism. J. P. Skartch-saris. No. 1,430,411; Sept. 26.
 Railway-switch filler. D. E. Lahey. No. 1,421,962; July 4.
 Railway-switch guard. M. J. McNamara. No. 1,426,583; Aug. 22.
 Railway switch, Lock. J. Coates. No. 1,411,162; Mar. 28.
 Railway-switch lock. A. G. Grant and J. J. Fanning. No. 1,422,963; July 18.
 Railway-switch mechanism. C. G. McCaulley. No. 1,437,900; Dec. 5.
 Railway-switch-operating mechanism, Automatic. P. J. Ramon. No. 1,439,977; Dec. 26.
 Railway-switch stand. L. Faciuto, Sr. No. 1,422,191; July 11.
 Railway-switch throw and lock, Automatic. F. H. Martin. No. 1,423,351; July 18.
 Railway switches, Device for connecting circuit controllers with. W. P. Neubert. No. 1,405,548; Feb. 7.
 Railway switches, Electric heater for. J. B. Feder. No. 1,429,726; Sept. 19.
 Railway switches, Locking device for. J. A. Daoust. No. 1,413,010; Apr. 18.
 Railway systems, Street indicator for street-. A. M. Gallery. No. 1,425,583; Aug. 15.
 Railway-ticket-receipt punch. G. C. Peterson. No. 1,405,434; Feb. 7.
 Railway tie. H. H. Ashlock. No. 1,438,625; Dec. 12.
 Railway tie. J. Barry. No. 1,435,273; Nov. 14.
 Railway tie. S. Belonger. No. 1,412,648; Apr. 11.
 Railway tie. H. M. Bodine. No. 1,402,280; Jan. 3.
 Railway tie. E. Butts and H. K. Dean. No. 1,430,884; Oct. 3.
 Railway tie. E. E. Crum. No. 1,432,443; Oct. 17.
 Railway tie. G. W. Dallimore. No. 1,427,522; Aug. 29.
 Railway tie. T. G. Hamilton. No. 1,434,206; Oct. 31.
 Railway tie. R. R. Hyde and J. C. Hook. No. 1,426,479; Aug. 22.
 Railway tie. J. E. Langford, jr. No. 1,431,469; Oct. 10.
 Railway tie. T. D. McCarty. No. 1,425,783; Aug. 15.
 Railway tie. J. Neimeyer. No. 1,429,037; Sept. 12.
 Railway tie. L. S. Prudhomme. No. 1,412,421; Apr. 11.
 Railway tie. S. Rapp. No. 1,420,749; June 27.
 Railway tie. C. H. Ritzler. No. 1,440,177; Dec. 26.
 Railway tie. J. Schultz. No. 1,436,912; Nov. 28.
 Railway tie. G. Strom. No. 1,427,980; Sept. 5.
 Railway tie. C. M. Sturgis. No. 1,439,201; Dec. 19.
 Railway tie. C. E. Taylor. No. 1,432,922; Oct. 24.
 Railway tie. R. J. Wells. No. 1,413,085; Apr. 18.
 Railway tie. S. G. Woodward. No. 1,410,281; Mar. 21.
 Railway-tie-adzing machine. F. V. Carman. No. 1,427,516; Aug. 29.
 Railway tie and brace plate. E. G. Wallinder. No. 1,411,319; Apr. 4.
 Railway tie and fastener. H. A. Clark. No. 1,428,078; Sept. 5.
 Railway tie and rail clamp. G. W. Pople. No. 1,410,078; Mar. 21.
 Railway tie and rail fastener. G. W. Hanner. No. 1,403,027; Jan. 10.
 Railway tie and rail-fastening means therefor, Insulated. P. J. Dunn. No. 1,407,195; Feb. 21.
 Railway tie and securing device. S. Wallwork. No. 1,423,702; July 25.
 Railway tie, Composite. G. H. Pegram. No. 1,425,636; Aug. 15.
 Railway tie, Concrete. W. F. Morrison. No. 1,410,496; Mar. 21.
 Railway tie, Concrete. C. A. Pierson. No. 1,406,074; Feb. 7.
 Railway tie, Metal. R. T. Burdette. No. 1,416,686; May 23.
 Railway tie, Metallic. D. Miller. No. 1,415,672; May 9.
 Railway tie, Metallic. J. B. Respass. No. 1,410,509; Mar. 21.
 Railway tie, Steel. O. Burrell. No. 1,419,814; June 13.
 Railway ties and applying the same, Coating for. G. H. Hardman. No. 1,418,708; June 6.
 Railway ties, Device for removing and replacing. W. S. A. Wilder. No. 1,403,277; Jan. 10.

Alphabetical list of inventions—Continued.

- Railway ties or sleepers, Machine plants for tamping. H. Christiansen. No. 1,408,442; Mar. 7.
- Railway ties, Tie plate for metal. J. Pira. No. 1,405,628; Feb. 7.
- Railway track. J. L. Cosby. No. 1,415,802; May 9.
- Railway track. S. C. Jump. No. 1,436,446; Nov. 21.
- Railway track, Concrete. A. C. Griewank. No. 1,413,983; Apr. 25.
- Railway-track construction. C. S. Davis. No. 1,409,526; Mar. 14.
- Railway-track construction. A. Tauchar. No. 1,422,010; July 4.
- Railway-track crossing. D. O'Hern. No. 1,430,178; Sept. 26.
- Railway-track drop pit. L. B. Graham. No. 1,432,997; Oct. 24.
- Railway-track indicator. F. Garagnani. No. 1,422,047; July 4.
- Railway-track paving. A. T. Newell. No. 1,407,436; Feb. 21.
- Railway-track scale construction. R. N. Miller. No. 1,411,502; Apr. 4.
- Railway track structure and making same. C. Burton, J. K. Dixon, and S. C. Weeks. No. 1,431,369; Oct. 10.
- Railway track switches, draw spans, and turntables, Electrical control system for operating. H. R. Stevens, R. L. Rockwell, and E. B. Howe. No. 1,410,844; Mar. 28.
- Railway trackage. D. E. Lahey. No. 1,435,011; Nov. 7.
- Railway tracks, Curve guardrail fixture for. T. Maney. No. 1,418,950; June 6.
- Railway tracks, Device for clearing obstructions from. A. Franz. No. 1,439,083; Dec. 19.
- Railway tracks, Tie rod for. W. P. Witherow. No. 1,409,988; Mar. 21.
- Railway traffic-controlling apparatus. L. V. Lewis. No. 1,419,869; June 13.
- Railway traffic-controlling apparatus. L. V. Lewis. No. 1,425,397; Aug. 8.
- Railway traffic-controlling apparatus. L. V. Lewis. No. 1,428,894; Sept. 12.
- Railway traffic-controlling apparatus. R. A. McCann. No. 1,407,289; Feb. 21.
- Railway traffic-controlling apparatus. R. A. McCann. No. 1,425,993; Aug. 15.
- Railway traffic-controlling apparatus. F. H. Nicholson. No. 1,405,552; Feb. 7.
- Railway traffic-controlling system. L. V. Lewis. No. 1,407,287; Feb. 21.
- Railway traffic-controlling system. L. V. Lewis. No. 1,423,862; July 25.
- Railway traffic-controlling system. R. A. McCann. No. 1,418,663; June 6.
- Railway traffic-controlling system. G. C. Whitney. No. 1,421,880; July 4.
- Railway train. H. Boltshauser. No. 1,439,223; Dec. 19.
- Railway train control. H. S. Folker. Nos. 1,439,081-2; Dec. 19.
- Railway train-order semaphores, Signal device for. H. A. Sellin. No. 1,423,689; July 25.
- Railway trains, Heating system for. H. G. Geissinger. No. 1,415,872; May 16.
- Railway trains or vehicles, Electric control of. A. R. Angus. No. 1,414,999; May 2.
- Railway trapdoor lock mechanism. A. A. Constantine. No. 1,432,233; Oct. 17.
- Railway trapdoor lock mechanism. T. C. Cork. No. 1,405,496; Feb. 7.
- Railway-vehicle coupling, Safety. H. A. Hoke. No. 1,404,292; Jan. 24.
- Railway vehicles, Brake apparatus for. W. Hildebrand. No. 1,424,303; Aug. 1.
- Railway vehicles, Current collector for. R. and J. Bienvenue. No. 1,428,133; Sept. 5.
- Railway velocipede. A. Revny. No. 1,436,532; Nov. 21.
- Railway weeder and reshoulder machine. P. A. Keister. No. 1,429,680; Sept. 19.
- Railway wheel clamp. G. W. Pipe. No. 1,402,493; Jan. 10.
- Railway with aeroplane cars, Monorail. T. Roghmanns. No. 1,415,400; May 9.
- Railways, Axle-recording device for. W. Kolbe and J. Fritzten. No. 1,421,500; July 4.
- Railways, Door opener for. J. Szczurek. No. 1,418,406; June 6.
- Railways, Driving mechanism for rope and chain. C. Baun. No. 1,426,451; Aug. 22.
- Railways, Electric signal for electric. T. C. MacAllister. No. 1,436,597; Nov. 21.
- Railways, Electrical point detector for. G. H. Wion and A. E. Hudd. (Reissue.) No. 15,456; Sept. 12.
- Railways, Means for cleaning third-rail tunnels of. D. W. Peck. No. 1,410,219; Mar. 21.
- Railways, Multiple control apparatus for electric. A. Couwenhoven. No. 1,411,269; Apr. 4.
- Railways, Preventing collisions on. D. J. Akhoona. No. 1,402,993; Jan. 10.
- Railways, Recording device for. H. Heyn and F. Zimmermann. No. 1,429,878; Sept. 19.
- Railways, Replacer for rolling stock of. D. D. Holmes. No. 1,403,247; Jan. 10.
- Railways, Sanding device for. C. Spencer. Nos. 1,404,903-4; Jan. 31.
- Railways, Signaling system for. J. R. Younie. No. 1,431,351; Oct. 10.
- Railways, Slot cleaner for street. J. S. McWhirter. No. 1,431,474; Oct. 10.
- Railways, Weed and grass cutter for. T. W. Kelly and C. Tingle. No. 1,409,011; Mar. 7.
- Rain cape. L. H. Geis. No. 1,423,315; July 18.
- Rain gauge. T. J. Johnson. No. 1,407,068; Feb. 21.
- Rain shield. F. W. Lord. No. 1,437,432; Dec. 5.
- Rain vision shield. H. Dickinson. No. 1,428,014; Sept. 5.
- Raisin stemmer. E. E. Stanley. No. 1,411,528; Apr. 4.
- Rake: See—
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| Agricultural rake. | Hay rake. |
| Buck rake. | Lawn rake. |
| Convertible self-cleaning rake. | Power-lift sweep rake. |
| Hand rake. | Self-cleaning rake. |
- Rake. J. A. Clark. No. 1,419,022; June 6.
- Rake and pitchfork, Combined. W. J. Baxter. No. 1,439,220; Dec. 19.
- Rake and tedder, Combined. R. R. Bowers. No. 1,406,970; Feb. 21.
- Rake attachment. W. Key. No. 1,439,964; Dec. 26.
- Rake cleaner, Sweep. O. Daily. No. 1,414,071; Apr. 25.
- Raker gauge. G. A. Reinke. No. 1,431,042; Oct. 3.
- Raking and sweeping device, Road. C. A. Gunderson and R. P. Mason. No. 1,428,283; Sept. 5.
- Rakes, Garden marker for. E. Welsh. No. 1,417,705; May 30.
- Rakes, Marking attachment for. J. C. Kenny. No. 1,414,087; Apr. 25.
- Ram, Power-operated. F. M. Castleman. No. 1,407,253; Feb. 21.
- Rammers, Butt for sand. E. W. Stevens. No. 1,415,905; May 16.
- Range. W. A. Busiek. No. 1,409,923; Mar. 21.
- Range. J. F. Lamb. No. 1,416,478; May 16.
- Range and position finder. H. Just. No. 1,407,281; Feb. 21.
- Range and water heater, Combined cooking. G. J. Rymal. No. 1,412,633; Apr. 11.
- Range, Apartment-house. M. Henoch. No. 1,431,953; Oct. 17.
- Range-boiler stand. A. Scheid. No. 1,418,883; June 6.
- Range boilers and like containers, End closure for. W. M. Bell. No. 1,430,000; Sept. 26.
- Range, Combination. E. Kener, Jr. No. 1,409,344; Mar. 14.
- Range, Combination coal and gas. C. F. Wiley. No. 1,407,715; Feb. 28.
- Range, Combined gas and coal. F. G. Nicolaus and J. Roy. No. 1,420,495; June 20.
- Range, Combination gas and coal. W. V. Robinson. No. 1,429,099; Sept. 12.
- Range, Cooking. M. S. Forgy. No. 1,438,434; Dec. 12.
- Range, Cooking. A. Leati. No. 1,408,811; Mar. 7.
- Range, Cooking. R. L. Poe. No. 1,407,768; Feb. 28.
- Range, Electric. G. W. Hart. No. 1,435,468; Nov. 14.
- Range finder. J. H. Hammond, Jr., and H. L. F. Buswell. No. 1,408,504; Mar. 7.
- Range finder and like instrument for use on shipboard. A. Barr and W. Stroud. No. 1,425,742; Aug. 15.
- Range finder and like instrument, Indirect-vision. A. and H. D. Taylor and P. W. Gray. No. 1,429,981; Sept. 26.
- Range finder, Short-base. H. D. Taylor. No. 1,421,321; June 27.
- Range-finding and the like instrument. H. D. Taylor. No. 1,424,125; July 25.
- Range, Gas. H. W. O'Dowd. No. 1,403,814; Jan. 17.
- Range, Gas. W. F. Roeschner. No. 1,431,760; Oct. 10.
- Range, Kitchen. A. E. Lundberg. No. 1,424,660; Aug. 1.
- Range, Water-heating. W. T. Fling. No. 1,419,367; June 13.
- Ranging a rapidly-moving object and apparatus therefor. F. H. de Brüne. No. 1,420,913; June 27.
- Ranges, Control system for electric. F. F. Forshee. No. 1,416,009; May 16.
- Ratchet. H. D. Croft and W. Roberts. No. 1,436,698; Nov. 28.
- Ratchet and socket wrench, Reversible. M. P. Strachle. No. 1,412,718; Apr. 11.
- Ratchet crank. G. E. Sprague. No. 1,424,045; July 25.
- Ratchet device. H. T. Anderson. No. 1,428,824; Sept. 12.
- Ratchet drill. H. F. Howell. No. 1,403,603; Jan. 17.
- Ratchet drive. C. W. Rudolph and W. J. Schlacks. No. 1,426,109; Aug. 15.
- Ratchet feed mechanism. G. A. Granlund. No. 1,425,007; Aug. 8.
- Ratchet hydrant wrench. H. S. Wine. No. 1,434,641; Nov. 7.
- Ratchet mechanism. E. W. Bullard. No. 1,416,316; May 16.
- Ratchet mechanism. F. H. Schwerin. No. 1,402,898; Jan. 10.
- Ratchet operating tool. S. Knezovich. No. 1,403,964; Jan. 17.
- Ratchet pins, Retaining means for. G. C. Parish. No. 1,438,549; Dec. 12.
- Ratchet tool. J. C. Blevney. Nos. 1,436,640-1; Nov. 28.
- Ratchet tool, Combination. A. R. Linden. No. 1,421,792; July 4.

Alphabetical list of inventions—Continued.

- Ratchet wrench. J. L. Hickey and J. Kracht. No. 1,428,371; Sept. 5.
- Ratchet wrench. S. Matthey. No. 1,406,467; Feb. 14.
- Ratchet wrench. R. A. Millen. No. 1,422,121; July 11.
- Ratchet wrench. F. T. Reese. No. 1,428,982; Sept. 12.
- Ratchet wrench. R. Stantorff. No. 1,436,610; Nov. 21.
- Ratchet wrench. M. H. Terry. No. 1,415,731; May 9.
- Ratchet wrench. W. I. Tuttle. No. 1,426,127; Aug. 15.
- Ratchet wrench and tool. J. A. Thompson. No. 1,413,243; Apr. 18.
- Ratchet wrench, Socket. W. E. Gifford and W. R. Smith. No. 1,435,288; Nov. 14.
- Rat guard. A. Cohen. No. 1,420,243; June 20.
- Rat killer. J. R. Teters. No. 1,408,658; Mar. 7.
- Rat trap. N. B. Brandenburg. No. 1,404,088; Jan. 17.
- Rat trap. R. Chasse. No. 1,429,189; Sept. 12.
- Rat trap. J. T. Compton. No. 1,435,806; Nov. 14.
- Rat trap. R. Cook. No. 1,427,784; Sept. 5.
- Rat trap. J. W. Hiett. No. 1,407,861; Feb. 28.
- Rat trap. J. F. Keller. No. 1,406,028; Feb. 7.
- Rat trap. P. Orbe. No. 1,419,299; June 13.
- Rat trap. H. Ryals. No. 1,431,844; Oct. 10.
- Rating sheet, Employment. M. M. Goldman and E. R. Thayer. No. 1,432,177; Oct. 17.
- Rattle, Sparking. L. V. Aronson. No. 1,433,171; Oct. 24.
- Ray pencil into an intermittent one, Device for temporarily converting a continuous. P. Becker. No. 1,424,334; Aug. 1.
- Razor. W. P. Coleman. No. 1,404,686; Jan. 24.
- Razor and hair clipper, Combined. J. Jakubiec. No. 1,436,960; Nov. 28.
- Razor and stropper, Combination safety. A. E. Tasca. No. 1,436,213; Nov. 21.
- Razor and stropper, Safety. J. W. McAuliffe. No. 1,411,287; Apr. 4.
- Razor attachment, Safety-. K. Kohn. No. 1,439,902; Dec. 26.
- Razor-blade guard and face plate. H. S. Hasselquist. No. 1,416,199; May 16.
- Razor-blade holder. E. Betz. No. 1,418,694; June 6.
- Razor-blade holder. L. Rupp. No. 1,414,046; Apr. 25.
- Razor-blade holder. J. J. Schultz. No. 1,431,544; Oct. 10.
- Razor-blade holder and stropping device. H. O. Hastings. No. 1,428,164; Sept. 5.
- Razor-blade holder, Safety-. E. Bach and J. Stuart. No. 1,418,352; June 6.
- Razor-blade stropper. H. Wesson. No. 1,436,740; Nov. 28.
- Razor-blade stropper, Safety-. W. Heepe. No. 1,405,032; Jan. 31.
- Razor blades, Apparatus for making hollow-ground. T. C. Sheehan. No. 1,425,798; Aug. 15.
- Razor blades, Device for sharpening. L. Rupp. No. 1,431,598; Dec. 10.
- Razor blades, Holder for stropping safety-. A. F. Ischinger. No. 1,433,375; Oct. 24.
- Razor blades, Machine for whetting. E. K. F. Heydenbluth. No. 1,408,298; Feb. 28.
- Razor blades or the like, Oiler case for safety-. J. W. Guice. No. 1,438,305; Dec. 12.
- Razor blades, Sharpening device for safety-. J. A. Harrington. No. 1,431,460; Oct. 10.
- Razor case, bone, and strop, Combination. R. E. Brown. No. 1,425,446; Aug. 8.
- Razor, Face-illuminating. L. E. Norquist. No. 1,429,760; Sept. 19.
- Razor, Finger-grasping safety. J. A. Williamson. No. 1,417,437; May 23.
- Razor guard, Safety-. W. P. Coleman. No. 1,405,759; Feb. 7.
- Razor handle. W. B. Gaylord. No. 1,403,070; Jan. 10.
- Razor hone, Safety-. W. F. Grogan. No. 1,424,246; Aug. 1.
- Razor-honing device. G. Gutekunst and C. Mag. No. 1,420,656; June 27.
- Razor motor, Safety-. C. I. Matson. No. 1,405,794; Feb. 7.
- Razor, Power-operated. P. Serene. No. 1,428,565; Sept. 12.
- Razor, Rotary. J. H. Philp. No. 1,420,943; June 27.
- Razor, Safety. D. Aitken. No. 1,411,552; Apr. 4.
- Razor, Safety. W. A. Barry. No. 1,409,917; Mar. 21.
- Razor, Safety. M. R. Rehman. No. 1,403,936; Jan. 17.
- Razor, Safety. M. B. Behrman. No. 1,432,949; Oct. 24.
- Razor, Safety. I. P. Blumel. No. 1,412,835; Apr. 18.
- Razor, Safety. H. Blum. No. 1,439,059; Dec. 19.
- Razor, Safety. G. Browning. No. 1,436,751; Nov. 28.
- Razor, Safety. J. J. Currie. No. 1,409,999; Mar. 21.
- Razor, Safety. J. W. Fischer. No. 1,425,463; Aug. 8.
- Razor, Safety. O. L. Glaser. No. 1,423,414; July 13.
- Razor, Safety. J. S. Gullborg. No. 1,417,988; May 30.
- Razor, Safety. R. P. Harshberger. No. 1,404,693; Jan. 24.
- Razor, Safety. P. Iroff. No. 1,414,646; May 2.
- Razor, Safety. P. J. Jaccard. No. 1,427,686; Aug. 29.
- Razor, Safety. C. W. Jones. No. 1,408,355; Feb. 28.
- Razor, Safety. W. J. Klauberg. No. 1,416,090; May 16.
- Razor, Safety. A. B. Lamb. No. 1,436,451; Nov. 21.
- Razor, Safety. R. W. McGarvey. No. 1,418,191; May 30.
- Razor, Safety. T. F. Murphy. No. 1,416,571; May 16.
- Razor, Safety. W. Nowak. No. 1,403,562; Jan. 17.
- Razor, Safety. T. W. Stewart. No. 1,427,864; Sept. 5.
- Razor, Safety. E. Tunmer. No. 1,435,268; Nov. 14.
- Razor, Safety. J. H. Vance. No. 1,414,533; May 2.
- Razor, Safety. R. H. Wilhelm. No. 1,440,325; Dec. 26.
- Razor, Safety. J. A. Williamson. No. 1,415,077; May 9.
- Razor strop. W. J. F. Dailey. No. 1,407,190; Feb. 21.
- Razor strop. R. C. Huse and L. V. Gordon. No. 1,403,324; Jan. 10.
- Razor strop. H. E. Rex. No. 1,433,038; Oct. 24.
- Razor strop. E. Schumann. No. 1,426,414; Aug. 22.
- Razor-strop-connecting device. J. F. Ellis. No. 1,414,267; Apr. 25.
- Razor-stropping device; Safety-. P. J. Dwyer. No. 1,425,081; Aug. 8.
- Razor-stropping machine. S. Kanner. No. 1,434,439; Nov. 7.
- Razors, Hair trimming or cutting attachment for safety. D. W. Wilson. No. 1,419,187; June 13.
- Reach. L. B. Doe. No. 1,414,343; May 2.
- Reactor and the like. F. H. Kierstead. No. 1,412,817; Apr. 11.
- Reading device, Hand-. A. G. Gillott. No. 1,404,385; Jan. 24.
- Reading machine. B. A. Fiske. No. 1,411,008; Mar. 28.
- Reaper and binder. J. W. Templin. No. 1,439,851; Dec. 26.
- Reamer. C. W. Balle. No. 1,402,039; Jan. 3.
- Reamer. C. C. Buck. No. 1,409,921; Mar. 21.
- Reamer. M. F. Colby. No. 1,409,673; Mar. 14.
- Reamer. H. A. Greenlee. No. 1,418,255; May 30.
- Reamer. G. R. Maupin. No. 1,439,567; Dec. 19.
- Reamer. S. A. Maxwell. No. 1,407,560; Feb. 21.
- Reamer. G. B. McCracken. No. 1,431,015; Oct. 3.
- Reamer. W. C. Ruhlandt. No. 1,415,121; May 9.
- Reamer. C. E. Skelton. Nos. 1,405,020-1; Jan. 31.
- Reamer. A. M. Vedoe. No. 1,424,268; Aug. 1.
- Reamer and burrer. E. A. Midgley. No. 1,414,480; May 2.
- Reamer, Adjustable. D. R. Gallagher. No. 1,414,565; May 2.
- Reamer, Expanding. J. J. Jasperson. No. 1,422,205; July 11.
- Reamer, Expansible. L. E. Brush. No. 1,409,825; Mar. 14.
- Reamer, Expansible. B. M. Kline. No. 1,435,164; Nov. 14.
- Reamer, Expansible. G. Niedermayer. No. 1,429,045; Sept. 12.
- Reamer, Expansion. A. A. Mulac. No. 1,428,391; Sept. 5.
- Reaming machine. S. B. Clay. No. 1,408,341; Feb. 28.
- Reaming machine. K. R. Wilson. No. 1,413,550; Apr. 18.
- Reaming tool, Cylinder-. A. Callebert. No. 1,427,514; Aug. 29.
- Reboring tool. H. Ness. No. 1,436,669; Nov. 28.
- Reboring tool. W. C. Van Dresser. No. 1,433,577; Oct. 31.
- Receipts from electricity meters, gas meters, and the like, Apparatus for issuing. C. A. Gustafsson. No. 1,434,339; Oct. 31.
- Receiver and return trap. W. T. Finnigan. No. 1,432,021; Oct. 17.
- Receiver earpiece. H. G. Pape. No. 1,425,047; Aug. 8.
- Receiver, Moisture-proof. J. J. Comer. No. 1,401,962; Jan. 3.
- Receiver, Refuse. S. R. McDonald. No. 1,413,751; Apr. 25.
- Receiving rack. H. O. Olson. No. 1,433,642; Oct. 31.
- Receptacle. B. M. Beskow. No. 1,420,906; June 27.
- Receptacle. E. Bowerman. No. 1,430,720; Oct. 3.
- Receptacle. H. B. Cranshaw. No. 1,437,748; Dec. 5.
- Receptacle. M. E. Lynn. No. 1,403,261; Jan. 10.
- Receptacle. F. W. Martin. No. 1,418,954; June 6.
- Receptacle. W. M. Pease. No. 1,419,304; June 13.
- Receptacle. R. L. Saddlemire. No. 1,410,515; Mar. 21.
- Receptacle. O. O. Sheline. No. 1,419,315; June 13.
- Receptacle. M. E. Smith. No. 1,420,293; June 20.
- Receptacle. T. C. Spelling. No. 1,409,256; Mar. 14.
- Receptacle. G. A. Vickers. No. 1,416,914; May 23.
- Receptacle. H. E. Zipsky. No. 1,440,046; Dec. 26.
- Receptacle and advertising carrier, Combined trash. G. J. Richardson. No. 1,424,519; Aug. 1.
- Receptacle and advertising carrier, Combined trash. G. J. Richardson and W. Sachs. No. 1,424,520; Aug. 1.
- Receptacle and making same, Metallic. H. M. Smith. No. 1,409,698; Sept. 19.
- Receptacle, Ash. H. L. Fargo. No. 1,428,686; Sept. 12.
- Receptacle closure. L. R. N. Carvalho. No. 1,413,257; Apr. 18.
- Receptacle closure. L. R. N. Carvalho. Nos. 1,413,653-4; Apr. 25.
- Receptacle closure. L. R. N. Carvalho and A. L. Merolle. No. 1,413,256; Apr. 18.
- Receptacle closure. F. D. Crane. No. 1,417,975; May 30.
- Receptacle closure. C. R. Keeran. No. 1,430,169; Sept. 26.
- Receptacle, Collapsible. H. H. Bain. No. 1,412,912; Apr. 18.
- Receptacle, Collapsible. C. I. Farley. No. 1,407,054; Feb. 21.
- Receptacle, Compartment. J. J. and H. M. Porter. No. 1,430,849; Oct. 3.
- Receptacle cover. T. H. Hart. No. 1,419,850; June 13.
- Receptacle cover. A. J. Wallace. No. 1,418,498; June 6.
- Receptacle covers, Securing rim for. A. F. Gudknecht. No. 1,417,166; May 23.
- Receptacle, Deposit and collection. F. W. Schulze. No. 1,417,773; May 30.
- Receptacle, Dumping. F. Finckh. No. 1,419,666; June 13.
- Receptacle, Dumping. F. Finckh and P. Krüger. No. 1,424,634; Aug. 1.

Alphabetical list of inventions—Continued.

- Receptacle, Electrically-heated. O. H. and A. F. Pieper. No. 1,404,317; Jan. 24.
- Receptacle-filling apparatus. E. E. Lawrence. No. 1,413,338; Apr. 18.
- Receptacle-filling apparatus. T. Westen and R. J. Morehouse. No. 1,435,568; Nov. 14.
- Receptacle-filling machine. H. L. Evans and J. W. Andrews. No. 1,437,410; Dec. 5.
- Receptacle, flexible conduit, gas mask, and the like. C. A. Cleghorn. No. 1,422,670; July 11.
- Receptacle for meals. J. E. Heimerl. No. 1,435,521; Nov. 14.
- Receptacle holder. O. O. Sheline. No. 1,423,465; July 18.
- Receptacle holder. W. J. Spiro. No. 1,425,550; Aug. 15.
- Receptacle, Metal. F. W. Tobey. No. 1,427,244; Aug. 29.
- Receptacle, Moistureproof. W. E. Riecken. No. 1,426,776; Aug. 22.
- Receptacle, Refuse. O. Sweet. No. 1,420,391; June 20.
- Receptacle, Sealed metal. E. J. Conley. No. 1,432,968; Oct. 24.
- Receptacle, Self-discharging. F. Hildebrandt. No. 1,430,009; Oct. 24.
- Receptacle, Shipping and filling. J. E. Dungan. No. 1,411,271; Apr. 4.
- Receptacle, Soap. J. A. Bandy. No. 1,404,730; Jan. 31.
- Receptacle support. T. W. Watson. No. 1,414,911; May 2.
- Receptacle-transferring device. El. W. Morter. No. 1,420,936; June 27.
- Receptacle, Waste. H. S. Clark. No. 1,434,480; Nov. 7.
- Receptacles, Apparatus for filling. F. L. Shelor. No. 1,437,917; Dec. 5.
- Receptacles, Apparatus for making. M. Gerson. No. 1,419,248; June 13.
- Receptacles, Cap for gasoline or similar. F. Parizek. No. 1,426,501; Aug. 22.
- Receptacles, Closure for. A. G. Hubble. No. 1,414,569; May 2.
- Receptacles, envelopes, sheaths, or cases, Apparatus for inserting articles into open-ended. W. Rose. No. 1,407,581; Feb. 21.
- Receptacles, Making hooped metallic. F. G. Wacker. No. 1,419,705; June 13.
- Receptacles, Making reinforced. M. R. Harrison. No. 1,419,048; June 6.
- Receptacles, Sealed joint for liquid. J. C. McKallip. No. 1,418,155; May 30.
- Receptacles, Sput for metallic. H. S. Reynolds. (Re-issue.) No. 1,541,313; July 18.
- Receptacles subjected to pressure, Closure for openings in. H. C. Lord. No. 1,432,475; Oct. 17.
- Reciprocating and rotary motion, Mechanism for inter-conversion of. A. G. M. Michell. No. 1,409,057; Mar. 7.
- Reciprocating engine. J. McKechnie. No. 1,419,159; June 13.
- Reciprocating engine. E. Schmid. No. 1,413,543; Apr. 18.
- Reciprocating mechanism, Crankless. A. G. M. Michell. No. 1,418,598; June 6.
- Reciprocating rotary switch. E. E. Smart and F. P. Gates. No. 1,409,146; Mar. 7.
- Reciprocating shafts, Rotating and shock-absorbing means for. C. F. De Armond. No. 1,412,928; Apr. 18.
- Reciprocating-tool-operating machine. E. Gauthier. No. 1,403,858; Jan. 17.
- Recoil check. C. A. Nelson. No. 1,429,619; Sept. 19.
- Recoil pad. J. R. Caldwell. No. 1,418,532; June 6.
- Recoil pad. E. E. Dewhurst. No. 1,414,116; Apr. 25.
- Record assembling and display device. S. Olop. No. 1,402,009; Jan. 3.
- Record cabinet. J. H. Rand, jr. No. 1,429,628; Sept. 19.
- Record disk. F. Lenton. No. 1,417,339; May 23.
- Record ejector. H. Folkes. No. 1,418,555; June 6.
- Record-filing rack. E. W. Ladd. No. 1,417,471; May 23.
- Record holder. N. A. Helsley. No. 1,429,076; Sept. 12.
- Record holder. R. N. McClure. No. 1,429,151; Sept. 12.
- Record holder. R. N. McClure. No. 1,437,254; Nov. 28.
- Record holder, Thiefproof. W. A. Faith. No. 1,438,433; Dec. 12.
- Record lifter. J. A. Clarke. No. 1,406,976; Feb. 21.
- Record sheet. W. W. Smythe, Jr. No. 1,407,095; Feb. 21.
- Record shipper, Disk-. T. D. Currie. No. 1,406,939; Feb. 14.
- Recorder: See—
- Electrical recorder. Time recorder.
- Graphic recorder. Topographic recorder.
- Recorder. F. B. Howell. No. 1,438,829; Dec. 12.
- Recorder. J. N. Tuttle. No. 1,406,507; Feb. 14.
- Recorder. J. N. Tuttle. No. 1,415,499; May 9.
- Recording and exhibiting device. W. F. Harthun. No. 1,414,406; May 2.
- Recording autographic register. C. R. Buschmeyer. No. 1,407,376; Feb. 21.
- Recording device. I. F. Hepler. No. 1,411,698; Apr. 4.
- Recording instrument. R. W. Cornelison. No. 1,433,985; Oct. 31.
- Recording instrument. J. R. Craighead. No. 1,415,528; May 9.
- Recording instrument. D. T. May. No. 1,418,725; June 6.
- Recording instrument, Multiple. R. P. Brown and F. Wagner. No. 1,422,920; July 18.
- Recording instruments, Chart support for. F. C. Buechman. No. 1,415,306; May 9.
- Recording lock. J. W. Bryce. No. 1,417,715; May 30.
- Recording mechanism. G. R. Wood. No. 1,413,646; Apr. 25.
- Recording system. H. H. Welch. No. 1,412,586; Apr. 11.
- Records, Apparatus for keeping police-officers'. W. H. Rooney. No. 1,437,076; Nov. 28.
- Records of data, Means for creating. A. L. Davenport. No. 1,406,941; Feb. 14.
- Records, Label holder for reserve-stock. N. J. Turner. No. 1,434,073; Oct. 31.
- Recrisping means. P. S. Moyer. No. 1,425,790; Aug. 15.
- Rectifier. H. P. Donie. No. 1,420,824; June 27.
- Rectifier. R. T. Walker. No. 1,407,363; Feb. 21.
- Rectifier, Mechanical. L. Bradley. No. 1,430,619; Oct. 3.
- Rectifier system. A. C. Reid. No. 1,418,398; June 6.
- Rectifiers, Polyphase choking coils for. B. B. Schäfer. No. 1,413,685; Apr. 25.
- Recuperative furnace. H. B. Dempsey. No. 1,430,630; Oct. 3.
- Recuperator. H. Hecker. No. 1,426,381; Aug. 22.
- Recuperator. R. Schlemm. No. 1,438,726; Dec. 12.
- Recuperator. C. M. Stein. No. 1,404,721; Jan. 24.
- Recuperator. F. J. Tone. No. 1,433,248; Oct. 24.
- Recuperator. T. J. Volkammer. No. 1,402,325; Jan. 3.
- Recuperator and blocks for building same. E. R. Posnack. No. 1,431,486; Oct. 10.
- Reducing machine. Cage for. M. F. Williams. No. 1,408,055; Feb. 28.
- Reducing machines, Breaker roll for. M. F. Williams. No. 1,410,636; Mar. 28.
- Reducing machines, Roller breaker plate for. M. F. Williams. No. 1,410,437; Mar. 21.
- Reduction and enlargement control, Device for. E. F. Kinzler. No. 1,438,498; Dec. 12.
- Reed article and producing it. M. B. Lloyd. No. 1,438,185; Dec. 12.
- Reed article and producing same. M. B. Lloyd. No. 1,412,623; Apr. 11.
- Reed hook and knife, Combination. W. H. Harrison. No. 1,411,020; Mar. 28.
- Reed instrument, Vibrating. K. G. Frank. No. 1,416,550; May 16.
- Reed-pipe resonator. J. T. Austin. No. 1,419,486; June 13.
- Reed protector. G. V. Knopf. No. 1,410,066; Mar. 21.
- Reeds into slats or strips, Machine for the transformation of. P. de Guardia-Calmètes. No. 1,420,914; June 27.
- Reel: See—
- Clothesline reel. Picture reel.
- Film reel. Picture-film reel.
- Fishing reel. Stripping reel.
- Fishing-line reel. Tape reel.
- Fishline reel. Transfer reel.
- Gathering reel. Trolley reel.
- Hose and rope reel. Yarn reel.
- Kite reel. Wire reel.
- Line reel.
- Reel. L. S. Baluta. No. 1,438,212; Dec. 12.
- Reel. C. D. Cate. No. 1,425,076; Aug. 8.
- Reel. J. B. Green. No. 1,420,094; June 20.
- Reel. G. M. Henderson. No. 1,406,010; Feb. 7.
- Reel. F. O. Playle. No. 1,433,412; Oct. 24.
- Reel. R. D. Peters. No. 1,426,597; Aug. 22.
- Reel-driving mechanism. H. H. Mercer. No. 1,409,896; Mar. 14.
- Reel frame. H. Koch and H. Müller. No. 1,421,497; July 4.
- Reeling device. L. N. Hampton. No. 1,418,706; June 6.
- Reeling device, Automatic. T. J. Trew. No. 1,417,429; May 23.
- Reeling machine. E. E. Bradley. No. 1,431,563; Oct. 10.
- Reeling machines, Attachment for. C. J. De Coster. No. 1,416,000; May 16.
- Reeling mechanism, Distributing device for. J. A. Heany. No. 1,404,853; Jan. 31.
- Reels. Line-distributing device for. J. T. Welch. No. 1,438,007; Dec. 5.
- Reinforced joint. A. B. Hubbard. Nos. 1,433,280-2; Oct. 24.
- Reinforcement spacer. H. J. Baker. No. 1,409,645; Mar. 14.
- Reenforcing bar, Deformed. J. T. Simpson. No. 1,423,163; July 18.
- Reenforcing bars, Making spacing devices for. W. E. White. No. 1,415,285; May 9.
- Refining element and making the same. Z. Olsson. No. 1,435,972; Nov. 21.
- Refining machine. W. N. Hartshorn. No. 1,404,851; Jan. 31.
- Refinisher. E. S. Hess. No. 1,430,652; Oct. 3.
- Reflector. A. L. Arenberg. No. 1,407,910; Feb. 28.
- Reflector. H. A. Borrensen. No. 1,431,147; Oct. 10.
- Reflector. P. E. Correll. No. 1,413,315; Apr. 18.
- Reflector. W. A. Dorey. No. 1,426,280; Aug. 15.
- Reflector. W. V. Foley. No. 1,408,875; Mar. 7.
- Reflector. A. G. France. No. 1,418,556; June 6.
- Reflector. O. J. Helvey. No. 1,408,597; Mar. 7.
- Reflector, Daylight. J. Van Schooneveld. No. 1,434,075; Oct. 31.
- Reflector, Headlight. C. A. B. Halvorson, Jr. No. 1,405,410; Feb. 7.

Alphabetical list of inventions—Continued.

- Reflector heater, Movable. E. Witzberger. No. 1,426,238; Aug. 15.
- Reflector-renewal insert. H. F. Dunn. No. 1,424,561; Aug. 1.
- Reflector shade. O. H. Mohr. No. 1,437,259; Nov. 28.
- Reflector, Tiltable. H. T. Platz. No. 1,416,749; May 23.
- Refractories, Bonded alumina. M. F. Beecher. No. 1,439,286; Dec. 19.
- Refractories projector. W. H. Blatchley. Nos. 1,435,200-1; Nov. 14.
- Refractometer. J. W. Gaffey. No. 1,440,351; Dec. 26.
- Refractory article, Highly-. H. H. Buckman and G. A. Pritchard. No. 1,412,916; Apr. 18.
- Refractory composition. D. E. Collins. No. 1,411,842; Apr. 4.
- Refractory material and making same. C. A. French. No. 1,418,372; June 6.
- Refractory material and furnace wall built thereof. J. H. Gray. No. 1,439,410; Dec. 19.
- Refractory material and making same. R. W. Hull. No. 1,418,648; June 6.
- Refractory material, Means for reenforcing. W. B. French. No. 1,440,218; Dec. 26.
- Refractory ware. J. A. Jeffery. No. 1,438,599; Dec. 12.
- Refrigerating apparatus. A. P. Anderson. No. 1,439,051; Dec. 19.
- Refrigerating apparatus. F. W. Andrews. No. 1,419,097; June 6.
- Refrigerating apparatus. H. C. Buchere. No. 1,419,215; June 13.
- Refrigerating apparatus. L. G. Copeman. No. 1,409,283; Mar. 14.
- Refrigerating apparatus. L. G. Copeman. No. 1,412,775; Apr. 11.
- Refrigerating apparatus. L. G. Copeman. No. 1,415,922; May 16.
- Refrigerating apparatus. L. G. Copeman. Nos. 1,430,153-4; Sept. 26.
- Refrigerating apparatus. W. and J. W. Day. No. 1,428,361; Sept. 5.
- Refrigerating apparatus. E. F. Fisher. No. 1,415,828; May 9.
- Refrigerating apparatus. E. T. Ford. No. 1,413,844; Apr. 25.
- Refrigerating apparatus. J. C. Goosmann. No. 1,408,453; Mar. 7.
- Refrigerating apparatus. C. C. Hansen. No. 1,402,418; Jan. 3.
- Refrigerating apparatus. C. W. Hapgood. No. 1,427,379; Aug. 29.
- Refrigerating apparatus. C. W. Hapgood. No. 1,428,958; Sept. 12.
- Refrigerating apparatus. B. B. Holmes. No. 1,434,444; Nov. 21.
- Refrigerating apparatus. F. H. Kolbe. No. 1,418,806; June 6.
- Refrigerating apparatus. A. B. MacKay. No. 1,418,665; June 6.
- Refrigerating apparatus. A. T. Marshall. No. 1,425,265; Aug. 8.
- Refrigerating apparatus. A. T. Marshall. No. 1,436,815; Nov. 28.
- Refrigerating apparatus. F. E. Norton. No. 1,418,015; May 30.
- Refrigerating apparatus. H. A. Parkyn. No. 1,405,319; Jan. 31.
- Refrigerating apparatus. J. Zander. No. 1,415,504; May 9.
- Refrigerating apparatus, Attachment to. J. West and E. C. Campbell. No. 1,427,041; Aug. 22.
- Refrigerating apparatus, Control for. E. B. Spalt and F. R. Meginniss. No. 1,418,488; June 6.
- Refrigerating apparatus, Controlling mechanism for. C. C. Hansen. No. 1,422,853; July 18.
- Refrigerating apparatus, Expansion valve for. F. J. Heideman. No. 1,428,031; Sept. 5.
- Refrigerating appliance. F. T. Rodgers. No. 1,413,430; Apr. 18.
- Refrigerating machine. G. L. E. Kothny. No. 1,418,002; May 30.
- Refrigerating machine. A. T. Marshall. No. 1,425,267; Aug. 8.
- Refrigerating machine. A. G. Ross. No. 1,416,878; May 23.
- Refrigerating machine, Compression. G. Ferguson. No. 1,410,394; Mar. 21.
- Refrigerating machines, Attachment for. J. H. McCrary and C. A. Russ. No. 1,414,032; Apr. 25.
- Refrigerating machines, Control for. A. D. Karr and K. D. Perkins. No. 1,424,826; Aug. 8.
- Refrigerating mechanism. O. Horner. No. 1,436,445; Nov. 21.
- Refrigerating plant. J. Morawski. No. 1,416,492; May 16.
- Refrigerating plants, Thermostatic control device for. W. Wishart and A. H. Morrell. No. 1,403,219; Jan. 10.
- Refrigerating process. A. G. Crawford. No. 1,439,728; Dec. 26.
- Refrigerating system. G. A. Gase and E. A. Seymer. No. 1,429,132; Sept. 12.
- Refrigerating system. A. T. Marshall. No. 1,425,266; Aug. 8.
- Refrigerating system. W. W. Robinson. No. 1,415,399; May 9.
- Refrigerating systems, Sulphur dioxide in artificial. F. W. Robison. No. 1,406,582; Feb. 14.
- Refrigeration. C. E. Bonine. No. 1,440,000; Dec. 26.
- Refrigeration. J. Rebsamen. No. 1,425,216; Aug. 8.
- Refrigeration apparatus. F. E. Matthews. No. 1,404,457; Jan. 24.
- Refrigeration apparatus. E. R. Sage. No. 1,430,263; Sept. 26.
- Refrigeration, Apparatus for. E. R. Candor. No. 1,402,716; Jan. 3.
- Refrigeration, Means for. F. Moon. No. 1,404,400; Jan. 24.
- Refrigeration system. J. B. Lacy. No. 1,404,531; Jan. 24.
- Refrigerator. W. N. Amsbary and W. F. Larson. No. 1,409,511; Mar. 14.
- Refrigerator. G. T. Ashworth. No. 1,410,543; Mar. 28.
- Refrigerator. J. Beck. No. 1,439,678; Dec. 19.
- Refrigerator. C. D. Behan and G. G. Perry. No. 1,434,522; Nov. 7.
- Refrigerator. L. Borden. No. 1,428,073; Sept. 5.
- Refrigerator. K. H. Bremer. No. 1,408,260; Feb. 28.
- Refrigerator. T. J. Clinton. No. 1,404,191; Jan. 24.
- Refrigerator. R. K. Combs. No. 1,429,020; Sept. 12.
- Refrigerator. M. Goldman. No. 1,410,563; Mar. 28.
- Refrigerator. G. J. Gruendler. No. 1,427,207; Aug. 29.
- Refrigerator. J. E. Hawkins. No. 1,403,320; Jan. 10.
- Refrigerator. E. H. Holland. No. 1,428,591; Sept. 12.
- Refrigerator. W. L. Hummel. No. 1,404,961; Jan. 31.
- Refrigerator. W. K. Knutson. No. 1,412,687; Apr. 11.
- Refrigerator. W. K. Knutson. No. 1,420,711; June 27.
- Refrigerator. F. Kober. No. 1,428,549; Sept. 12.
- Refrigerator. W. J. Krieter and E. L. Feth. No. 1,404,302; Jan. 24.
- Refrigerator. L. Lanzkroner. No. 1,440,304; Dec. 26.
- Refrigerator. C. H. Leonard. No. 1,423,532; July 25.
- Refrigerator. H. B. Lindsay. No. 1,437,529; Dec. 5.
- Refrigerator. J. Maki. No. 1,438,450; Dec. 12.
- Refrigerator. E. H. Roy. No. 1,409,587; Mar. 14.
- Refrigerator. E. H. Roy. No. 1,414,097; Apr. 25.
- Refrigerator. E. H. Roy. No. 1,429,104; Sept. 12.
- Refrigerator. A. Simons. No. 1,429,649; Sept. 19.
- Refrigerator. F. Stoltman and W. Sumner. No. 1,416,389; May 16.
- Refrigerator. F. D. Telling. No. 1,431,766; Oct. 10.
- Refrigerator. F. Zirkuly. No. 1,435,439; Nov. 14.
- Refrigerator attachment. C. F. Stiel. No. 1,421,607; July 4.
- Refrigerator, Automatic continuous. R. E. Schurtz. No. 1,414,527; May 2.
- Refrigerator, Beverage-serving. H. K. Hansen. No. 1,402,602; Jan. 3.
- Refrigerator, Bottle. R. J. Soutullo. (Reissue.) No. 1,5482; Oct. 31.
- Refrigerator building. P. Mandeville. No. 1,413,230; Apr. 18.
- Refrigerator counter. P. C. Jensen. No. 1,434,544; Nov. 7.
- Refrigerator, Display. J. A. Teifert. No. 1,402,119; Jan. 3.
- Refrigerator display case. C. V. Hill. No. 1,409,856; Mar. 14.
- Refrigerator display case. W. T. Huenig. No. 1,409,179; Mar. 14.
- Refrigerator, Evaporative. R. J. Gaskin and H. M. Tarras. No. 1,406,842; Feb. 14.
- Refrigerator, Evaporative. E. A. Stubbs. No. 1,403,134; Jan. 10.
- Refrigerator, Evaporative iceless. C. C. Swartwood. No. 1,427,981; Sept. 5.
- Refrigerator, Iceless. C. L. Kik. Nos. 1,422,364-5; July 11.
- Refrigerator, Tank. H. J. Gwyer. No. 1,407,857; Feb. 28.
- Refrigerator, Window. W. B. Crossland. No. 1,410,378; Mar. 21.
- Refrigerators and ice boxes, Apparatus for icing. O. R. Curran. No. 1,427,445; Aug. 29.
- Refrigerators, Tank for. J. Miller. No. 1,415,381; May 9.
- Refuse burner. J. T. Stoddard. No. 1,421,741; July 4.
- Regenerative furnace. M. Mathy. No. 1,404,626; Jan. 24.
- Regenerative furnace. S. G. Worton. No. 1,430,713; Oct. 3.
- Regenerator chamber. J. H. Gray. No. 1,408,086; Feb. 28.
- Register: See—
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| Account register. | Liquid register. |
| Air-control register. | Manifolding register. |
| Arc-current regulator. | Passenger register. |
| Auto register. | Recording autographic register. |
| Autographic register. | Sheet register. |
| Expense register. | Time-recording register. |
| Kilometer per liter register. | |
- Register. J. J. Albright. No. 1,417,011; May 23.
- Register. J. S. Boyd. No. 1,422,024; July 4.
- Register. M. Macdonald. No. 1,437,668; Dec. 5.
- Register. H. E. Manley. No. 1,409,879; Mar. 14.
- Register. C. H. Woods and A. Ruebsamen. No. 1,418,770; June 6.
- Register attachment. D. F. Tynan. No. 1,429,811; Sept. 19.
- Register, Autographic. J. Q. Sherman and A. W. Metzner. No. 1,403,647; Jan. 17.
- Register box and grille. P. Christensen. No. 1,438,981; Dec. 19.

Alphabetical list of inventions—Continued.

- Register gauge, Line-up. J. C. Dittrich. No. 1,431,293; Oct. 10.
- Register-grille-anchoring device. P. Christensen. No. 1,438,928; Dec. 19.
- Register-operating mechanism. R. E. Kimball. No. 1,423,333; July 18.
- Register-resetting mechanism. A. E. Sorum. No. 1,433,670; Oct. 31.
- Registering apparatus, Watchman's. J. Stuart. No. 1,405,727; Aug. 7.
- Registering device. V. O. Greene. No. 1,440,353; Dec. 26.
- Registering mechanism. A. Stuber. No. 1,410,772; Mar. 28.
- Registering mechanism. A. Stuber. No. 1,433,310; Oct. 24.
- Registers, Support for cold-air. J. E. Hug. No. 1,411,628; Apr. 4.
- Registers, Transfer mechanism for. H. P. Nordmark. No. 1,428,607; Sept. 12.
- Regulating and control apparatus and system. F. W. Meyer. No. 1,422,120; July 11.
- Regulating system. A. H. Candee. No. 1,421,165; June 27.
- Regulating system. F. L. Re Qua. No. 1,431,254; Oct. 10.
- Regulating system, Automatic. L. W. Thompson. No. 1,419,778; June 13.
- Regulator. *See*—
- Air regulator.
 - Air-pressure regulator.
 - Automatic regulator.
 - Burner regulator.
 - Compressor regulator.
 - Damper regulator.
 - Draft regulator.
 - Electric regulator.
 - Engine compression regulator.
 - Feed regulator.
 - Frequency regulator.
 - Gas-booster regulator.
 - Gas-pressure regulator.
 - Generator regulator.
 - Headlight regulator.
 - Hot-air regulator.
 - Oven-heat regulator.
 - Paper-stock regulator.
 - Pile regulator.
 - Pressure regulator.
 - Pressure-gauge regulator.
 - Quantity regulator.
 - Ring regulator.
 - Superheater regulator.
 - Temperature-compensated regulator.
 - Thermionic regulator.
 - Throttle regulator.
 - Voltage regulator.
 - Window regulator.
- Regulator. J. M. Larson. No. 1,404,776; Jan. 31.
- Regulator. W. P. Powers. No. 1,430,113; Sept. 26.
- Regulator. I. M. Reed. No. 1,433,416; Oct. 24.
- Regulator and relief valve, Interchangeable. R. H. Mueller. No. 1,410,070; Mar. 21.
- Regulator system. A. Heckman. No. 1,437,142; Nov. 28.
- Regulator system and apparatus. C. A. Boddie. No. 1,435,203; Nov. 14.
- Rein holder. O. G. Gilbertson. No. 1,418,147; May 30.
- Relay. A. H. Candee and L. J. Hibbard. No. 1,428,837; Sept. 12.
- Relay. J. Erickson. No. 1,424,346; Aug. 1.
- Relay. J. C. Lindner. No. 1,439,561; Dec. 19.
- Relay. P. MacGahan. No. 1,421,272; June 27.
- Relay. F. R. Parker. No. 1,408,632; Mar. 7.
- Relay. F. R. Parker. (Reissue.) No. 15,374; June 6.
- Relay. F. M. Slough. No. 1,413,691; Apr. 25.
- Relay. F. M. Slough. No. 1,437,368; Nov. 28.
- Relay. E. Vedeovelli. No. 1,417,785; May 30.
- Relay armatures, Locking device for. A. B. Kendall. No. 1,433,952; Oct. 31.
- Relay system. G. P. Wilson. No. 1,410,538; Mar. 21.
- Relay, Three-position. R. M. Gilson. No. 1,416,953; May 23.
- Relay, Three-position tractive. A. B. Kendall. No. 1,433,951; Oct. 31.
- Relay, Time-limit. G. A. Burnham. No. 1,402,048; Jan. 3.
- Releasable coupling. W. E. Tucker. No. 1,434,931; Nov. 7.
- Releasable hook. W. Goetz. No. 1,428,775; Sept. 12.
- Release, Automatic. T. F. Rataiczak. No. 1,406,491; Feb. 14.
- Releasing hook. O. J. McGowan. No. 1,405,056; Jan. 31.
- Relieving, cutting, shaping, profiling, and like processes, Machine for use in. E. M. Wildey. No. 1,434,078; Oct. 31.
- Remailing box. R. I. Rhodes. No. 1,405,002; Jan. 31.
- Remittance reminder. H. M. Stewart. No. 1,423,886; July 25.
- Removable switch. R. P. Lambert. No. 1,410,020; Mar. 21.
- Rendering tank. W. Lister. No. 1,432,028; Oct. 17.
- Renovating. J. Q. Black, J. W. and J. H. Blazer. No. 1,412,503; Apr. 11.
- Repair stand. L. A. Wilson. No. 1,415,968; May 16.
- Repair tongue hound, Adjustable. F. J. Dultmeier. No. 1,422,681; July 11.
- Repeater apparatus. C. S. Demarest and O. H. Loynes. No. 1,410,003; Mar. 21.
- Repeater, Automatic. R. G. Brown and J. E. Strietelmeier. No. 1,413,554; Apr. 18.
- Repeater-network-selecting apparatus. C. S. Demarest. No. 1,405,501; Feb. 7.
- Repeater system. W. E. Beatty. No. 1,426,810; Aug. 22.
- Repeater-testing arrangement. W. H. Harden. No. 1,404,288; Jan. 24.
- Repository. W. O. Berkeley. No. 1,419,107; June 6.
- Repouring attachment. J. P. Quinn. No. 1,406,892; Feb. 14.
- Reproducer. C. J. del'Marmol. No. 1,424,087; July 25.
- Reproducer. V. C. Holland. No. 1,407,539; Feb. 21.
- Reproducer. M. Jones. No. 1,415,861; May 9.
- Reproducer. F. W. Minor. (Reissue.) No. 15,269; Jan. 17.
- Reproducers, Diaphragm-frame mounting for. D. H. Wilson. No. 1,425,566; Aug. 15.
- Reproducing machines, Illuminating device for. R. F. Good. No. 1,424,352; Aug. 1.
- Retailer. C. W. Graves. No. 1,410,059; Mar. 21.
- Retailer or car replacer. R. D. Gallagher. No. 1,439,085; Dec. 19.
- Resawing machines, Setting device for. J. Sorenson. No. 1,434,969; Nov. 7.
- Reserve-supply tank. F. E. Gubin. No. 1,416,554; May 16.
- Reservoir, Self-sealing. E. Friant. No. 1,436,985; Nov. 28.
- Reservoirs, Method of and apparatus for discharging the waters of. C. L. Ervin. No. 1,433,126; Oct. 24.
- Resetting mechanism. J. L. Wheeler. No. 1,428,407; Sept. 5.
- Reshipment container. A. D. Crawfis. No. 1,430,537; Oct. 3.
- Resilient driving connection. G. M. Eaton. No. 1,417,721; May 30.
- Resilient filler. J. F. Stanfield. No. 1,420,158; June 20.
- Resilient wheel. H. C. Anderson. No. 1,425,623; Aug. 15.
- Resilient wheel. F. E. Bessler. No. 1,414,542; May 2.
- Resilient wheel. C. C. Brooks. No. 1,431,285; Oct. 10.
- Resilient wheel. E. Cohn. No. 1,431,874; Oct. 10.
- Resilient wheel. A. A. Darche. No. 1,413,159; Apr. 18.
- Resilient wheel. J. A. Dewey. No. 1,410,386; Mar. 21.
- Resilient wheel. D. S. England. No. 1,430,961; Oct. 3.
- Resilient wheel. W. and J. C. Erdwins. No. 1,419,242; June 13.
- Resilient wheel. H. T. Evans. No. 1,406,949; Feb. 14.
- Resilient wheel. W. J. Fricke. No. 1,431,297; Oct. 10.
- Resilient wheel. J. E. Gareis. No. 1,409,290; Mar. 14.
- Resilient wheel. J. L. Garver. No. 1,410,177; Mar. 21.
- Resilient wheel. E. Gauthier and J. Chabot. No. 1,404,018; Jan. 17.
- Resilient wheel. L. Hayes. No. 1,433,505; Oct. 24.
- Resilient wheel. G. E. Hoard. No. 1,402,069; Jan. 3.
- Resilient wheel. W. J. Holschuh. No. 1,436,042; Nov. 21.
- Resilient wheel. L. Horschetzky. No. 1,416,408; May 16.
- Resilient wheel. H. A. Johns. No. 1,435,852; Nov. 14.
- Resilient wheel. C. Johnson. No. 1,424,101; July 25.
- Resilient wheel. D. S. Kennedy. No. 1,430,657; Oct. 3.
- Resilient wheel. J. F. Massey. No. 1,432,253; Oct. 17.
- Resilient wheel. E. McConville. No. 1,418,723; June 6.
- Resilient wheel. J. R. McFall. No. 1,416,104; May 16.
- Resilient wheel. J. R. McFall. No. 1,432,884; Oct. 24.
- Resilient wheel. J. E. McRoberts. No. 1,434,497; Nov. 7.
- Resilient wheel. C. A. Mendenhall. No. 1,433,396; Oct. 24.
- Resilient wheel. H. Nichols. No. 1,404,046; Jan. 17.
- Resilient wheel. A. S. Nickerson. No. 1,414,093; Apr. 25.
- Resilient wheel. J. P. Petersen. No. 1,410,593; Mar. 28.
- Resilient wheel. F. M. Ridenour. No. 1,437,150; Nov. 28.
- Resilient wheel. A. L. Schultz. No. 1,415,486; May 9.
- Resilient wheel. H. R. Shafer. No. 1,421,584; July 4.
- Resilient wheel. J. L. Stoltz. No. 1,430,474; Sept. 26.
- Resilient wheel. A. C. Taylor. No. 1,416,078; May 16.
- Resilient wheel. M. T. Weston. No. 1,431,610; Oct. 10.
- Resilient wheel. M. F. Woodward. No. 1,439,462; Dec. 19.
- Resilient wheel, Multiple-rim. H. McDermott. No. 1,424,252; Aug. 1.
- Resin and making same. A. Blumfeldt. No. 1,435,801; Nov. 14.
- Resin and making same, Coumarone. L. Rabinovitz. No. 1,416,062; May 16.
- Resin, Oxidizing. G. W. Miles. No. 1,410,211; Mar. 21.
- Resin, Polyglycerol. L. Weisberg and R. S. Potter. No. 1,424,137; July 25.
- Resin-shellac composition. L. Weisberg. Nos. 1,413,144-5; Apr. 18.
- Resins, Preparing. F. H. Rhodes and A. E. Roberts. No. 1,413,558; Apr. 18.
- Resistance. N. D. Levin. No. 1,433,960; Oct. 31.
- Resistance, Adjustable. S. Evershed. No. 1,402,587; Jan. 3.
- Resistance element and regulator, Combined. W. A. Harvey. No. 1,409,948; Mar. 21.
- Resistance material and manufacturing same. J. P. Maxfield and G. O. Smith. No. 1,403,803; Jan. 17.
- Resistance, Pressure-variable. A. Churchward. No. 1,413,390; Apr. 18.
- Resistance unit. J. G. Homan. No. 1,431,231; Oct. 10.
- Resistance unit. L. P. Hynes. No. 1,415,240; May 9.
- Resistance unit. G. A. Rice. No. 1,434,225; Oct. 31.
- Resistance unit and making. F. H. Bullinger. No. 1,404,267; Jan. 24.
- Resistance, Variable. E. G. Danielson. No. 1,426,465; Aug. 22.
- Resistance, Variable. H. P. Donle. No. 1,415,534; May 9.
- Resistor. A. H. Candee. No. 1,433,697; Oct. 31.
- Resistor. H. H. Johnston. No. 1,406,393; Feb. 14.
- Resonance device. W. H. Luckett. No. 1,437,982; Dec. 5.
- Resorcinol, Manufacture of. H. McCormack. No. 1,406,745; Feb. 14.
- Respirator. J. W. Knoblock. No. 1,410,928; Mar. 28.

Alphabetical list of inventions—Continued.

- Respirators, Antidimmer for. A. B. Lamb. No. 1,418,264; May 30.
- Respiratory apparatus. G. Anston. No. 1,406,141; Feb. 7.
- Rest, Back. F. C. Mendenhall. No. 1,404,461; Jan. 24.
- Rest-producing structure. M. F. Madden. No. 1,415,597; May 9.
- Restraining apparatus. G. Cortez. No. 1,417,230; May 23.
- Restraining device. A. L. Rhoades. No. 1,438,331; Dec. 12.
- Retail-box container. A. R. Zautner. No. 1,414,682; May 2.
- Retainer, Automatic. W. Sluyter. No. 1,433,748; Oct. 31.
- Retainer, Object. R. J. Gruenberg. No. 1,408,191; Feb. 28.
- Retaining clip. J. J. O'Brien. No. 1,422,610; July 11.
- Retaining means, Safety. J. Feinberg. No. 1,404,946; Jan. 31.
- Retort. W. Alenius. No. 1,438,421; Dec. 12.
- Retort. F. J. Metzger. No. 1,422,878; July 18.
- Retort. L. L. Summers. No. 1,422,634; July 11.
- Retort. F. A. J. Thayer and J. W. Alexander. No. 1,412,579; Apr. 11.
- Retort and gas-generator apparatus, Combined vertical. G. P. Lewis. No. 1,430,453; Sept. 26.
- Retort bench and operating the same. G. H. Niles. No. 1,438,258; Dec. 12.
- Retort-bottom-bending device. E. V. Quinn and D. Gallup. No. 1,420,747; June 27.
- Retort-discharging apparatus. S. B. Russell. No. 1,438,725; Dec. 12.
- Retort furnace. T. R. Blanchard and E. B. Kenefic. No. 1,420,958; June 27.
- Retort, Furnace. W. B. Eddison and H. S. Owens. No. 1,413,838; Apr. 25.
- Retort, Furnace. C. H. Smith. No. 1,413,801; Apr. 25.
- Retort, Furnace. C. H. Smith. No. 1,414,159; Apr. 25.
- Retort, Furnace. C. H. Smith. No. 1,415,201; May 9.
- Retort, Furnace. C. H. Smith. No. 1,415,846; May 9.
- Retort, Furnace. C. H. Smith and E. B. Edwards. No. 1,415,061; May 9.
- Retort, Rotary. J. W. H. Randall. No. 1,413,779; Apr. 25.
- Retorts and other refractory shapes, Making of zinc. W. F. Rossman. No. 1,424,120; July 25.
- Retorts, Apparatus for discharging vertical. J. Pieters. No. 1,412,628; Apr. 11.
- Retorts, Arrangement for evolving distillation gases in vertical. J. Pieters. No. 1,412,629; Apr. 11.
- Retorts, Discharging device for vertical. J. Pieters. No. 1,412,627; Apr. 11.
- Retorts, Water seal for gas. A. W. Warner. No. 1,423,975; July 25.
- Retreader. I. W. Clark. No. 1,435,279; Nov. 14.
- Return end and making same. R. A. Thom. No. 1,425,222; Aug. 8.
- Return end and making same. R. A. Thom. No. 1,425,495; Aug. 8.
- Reverberatory furnace. A. N. Jette. No. 1,435,304; Nov. 14.
- Reverberatory furnace. W. F. Sklenar. No. 1,438,342; Dec. 12.
- Reversible battery. V. C. Goodridge. No. 1,436,873; Nov. 28.
- Reversible wrench. W. H. Burstall and J. S. Turner. No. 1,417,969; May 30.
- Reversing control, Automatic. W. L. Merrill. No. 1,425,890; Aug. 15.
- Reversing machine. M. A. Sidwell. No. 1,421,104; June 27.
- Reversing mechanism. J. A. Dienger. No. 1,409,531; Mar. 14.
- Reversing mechanism. A. M. Goodwin. No. 1,421,213; June 27.
- Reversing mechanism. R. F. Lanham and A. V. Shull. No. 1,426,575; Aug. 22.
- Reversing mechanism. W. I. Wheeler. No. 1,422,508; July 11.
- Reversing mechanism, Automatic. G. W. Berthold. No. 1,424,797; Aug. 8.
- Reversing mechanism, Automatic. C. W. Groot. No. 1,408,289; Feb. 28.
- Reversing switch. F. Hoffner. No. 1,412,941; Apr. 18.
- Revetment. E. Jones. No. 1,407,866; Feb. 28.
- Revolver holster, Safety. J. Schussler. No. 1,421,578; July 4.
- Revolving press. A. de Fries. No. 1,434,876; Nov. 7.
- Revolving screen. W. H. Stepp. No. 1,427,031; Aug. 22.
- Revolving table, Knockdown. G. J. Dahl. No. 1,428,275; Sept. 5.
- Rewinder. C. A. Sentou and E. Jacquet. No. 1,437,915; Dec. 5.
- Rewinding apparatus. C. Di Como. No. 1,419,826; June 13.
- Rewinding device. J. A. Cameron and G. B. Birch. No. 1,437,398; Dec. 5.
- Rewinding machine, Spring. D. Ruff. No. 1,430,326; Sept. 26.
- Rewinding machines, Thread guide for. E. E. Kaufman. No. 1,440,300; Dec. 26.
- Rewireable screen. H. Higgin. No. 1,439,167; Dec. 19.
- Rheostat. E. M. Bentley. No. 1,411,901; Apr. 4.
- Rheostat. A. W. Brice. No. 1,406,257; Feb. 14.
- Rheostat. H. A. Douglas. No. 1,438,753; Dec. 12.
- Rheostat. E. C. Fasoldt. No. 1,429,858; Sept. 19.
- Rheostat. J. Granz. No. 1,433,948; Oct. 31.
- Rheostat. L. Kebler. No. 1,402,772; Jan. 10.
- Rheostat. J. G. Kjellgren. No. 1,404,125; Jan. 17.
- Rheostat. H. C. Nagel. No. 1,433,740; Oct. 31.
- Rheostat. J. Parkin, jr. No. 1,424,515; Aug. 1.
- Rheostat. E. G. Perkins. No. 1,437,267; Nov. 28.
- Rheostat. G. B. Reischach. No. 1,414,709; May 2.
- Rheostat. F. A. Rojas. (Reissue.) No. 15,478; Oct. 24.
- Rheostat. T. Spooner. No. 1,433,750; Oct. 31.
- Rheostat. A. R. Swoboda. No. 1,436,212; Nov. 21.
- Rheostat. H. L. Zabriskie. No. 1,437,629; Dec. 5.
- Rheostat, Compressible. A. W. Donop. No. 1,430,007; Sept. 26.
- Rheostat, Fluid. B. F. Tillson. No. 1,416,908; May 23.
- Rheostat, Liquid. D. M. Petty. No. 1,433,646; Oct. 31.
- Rheostats, Casing construction for. E. G. Perkins. No. 1,437,268; Nov. 28.
- Rheostats or equivalent devices, Automatically-operating means for controlling. P. K. Westcott. No. 1,405,469; Feb. 7.
- Rib chair. W. E. White. No. 1,410,633; Mar. 28.
- Ribbers, Dogless attachment for. W. Larkin. No. 1,433,384; Oct. 24.
- Ribbon container, Retail. L. T. Weymuth. No. 1,412,547; Apr. 11.
- Ribbon-cutting machines, Gumming device for. J. H. Hoffman. Nos. 1,415,562-3; May 9.
- Ribbon feeding and reversing mechanism. M. G. Standley and C. E. Poe. No. 1,420,881; June 27.
- Ribbon-reversing mechanism, Automatic. H. F. E. Baeseler. No. 1,439,058; Dec. 19.
- Rice-preservation process. S. I. Christensen. No. 1,423,830; July 25.
- Riddle. H. O. Magnuson. No. 1,415,598; May 9.
- Riddle. E. O. Stamm. No. 1,406,237; Feb. 14.
- Ridge breaker. C. T. Ray. No. 1,412,135; Apr. 11.
- Ridge-roll finial. M. Albert. No. 1,414,493; May 2.
- Riding attachment. J. V. Holstein. No. 1,435,161; Nov. 14.
- Rifle board. J. Horn. No. 1,419,052; June 6.
- Rifle. J. Fuchs. No. 1,428,081; Sept. 5.
- Rifle. N. Pieper. No. 1,416,234; May 16.
- Rifle feeding attachment. A. Bohnak. No. 1,436,232; Nov. 21.
- Rifle grenade and hand grenade, Combined. F. N. Brondby. No. 1,416,545; May 16.
- Rifle, Multimagazine self-locking. J. Carter. No. 1,420,471; June 20.
- Rifle, Repeating. J. Mader. No. 1,404,040; Jan. 17.
- Rifle, Repeating or automatic. J. Declaye. No. 1,408,445; Mar. 7.
- Rifle sight. A. Dickey. No. 1,425,756; Aug. 15.
- Rifle sight. D. C. McDougal. No. 1,407,208; Feb. 21.
- Rifle sight. I. C. Spencer. No. 1,433,422; Oct. 24.
- Rifles and like small arms, Rear sight for. H. R. L. Etherington. No. 1,425,321; Aug. 8.
- Rifles and revolvers, Front sight for. J. J. Le Fever. No. 1,417,670; May 30.
- Rim. G. E. Grundig and S. Dibbins. No. 1,428,432; Sept. 5.
- Rim. O. H. Jobski. No. 1,407,545; Feb. 21.
- Rim. O. H. Jobski. No. 1,409,005; Mar. 7.
- Rim. O. H. Jobski. No. 1,422,715; July 11.
- Rim. O. H. Jobski. No. 1,430,656; Oct. 3.
- Rim. O. H. Jobski. No. 1,432,188; Oct. 17.
- Rim. B. M. Kent. No. 1,408,950; Mar. 7.
- Rim. B. M. Kent. No. 1,430,658; Oct. 3.
- Rim. W. G. Keys. No. 1,407,467; Feb. 21.
- Rim. G. E. Krickler. No. 1,408,893; Mar. 7.
- Rim. D. C. Swander. No. 1,417,285; May 23.
- Rim and tire construction. H. E. A. Landsmand. No. 1,432,603; Oct. 17.
- Rim attachment, Split. E. R. Hunnewell. No. 1,417,171; May 23.
- Rim boards, Producing. A. A. Adamson. No. 1,422,648; July 11.
- Rim breaker. J. J. Baker, sr. No. 1,436,789; Nov. 28.
- Rim breaker. F. M. Ross. No. 1,402,660; Jan. 3.
- Rim breaker. J. R. Supple. No. 1,420,781; June 27.
- Rim clamp. G. V. Scars. No. 1,417,864; May 30.
- Rim clip, Detachable. W. C. Hurst and P. J. Dwyer. No. 1,429,736; Sept. 19.
- Rim, Collapsible. J. E. Castle. No. 1,439,943; Dec. 26.
- Rim, Collapsible. S. N. Meyer. No. 1,428,386; Sept. 5.
- Rim, Collapsible. W. E. Miller. No. 1,423,811; July 25.
- Rim, Collapsible. E. F. Wilson. No. 1,418,045; May 30.
- Rim-collapsing tool. J. C. Theberath. No. 1,410,140; Mar. 21.
- Rim-connecting means. H. J. Foster. No. 1,412,558; Apr. 11.
- Rim construction, Demountable. G. S. Webb. No. 1,440,190; Dec. 26.
- Rim, Demountable. M. B. Barszczewski. No. 1,416,440; May 16.
- Rim, Demountable. W. E. Beeman. No. 1,423,176; July 18.
- Rim, Demountable. W. N. Booth. No. 1,436,336; Nov. 21.
- Rim, Demountable. T. M. Brintnall. Nos. 1,402,141-2; Jan. 3.
- Rim, Demountable. E. Bunzel. No. 1,431,150; Oct. 10.

Alphabetical list of inventions—Continued.

- Rim, Demountable. J. T. Clark. No. 1,429,901; Sept. 19.
- Rim, Demountable. A. C. Dam. Nos. 1,408,172-3; Feb. 28.
- Rim, Demountable. B. W. France. No. 1,403,468; Jan. 10.
- Rim, Demountable. E. G. Gehrich. No. 1,431,885; Oct. 10.
- Rim, Demountable. C. A. Hardy. No. 1,440,290; Dec. 26.
- Rim, Demountable. W. I. Harp. No. 1,436,249; Nov. 21.
- Rim, Demountable. P. Hien. No. 1,410,179; Mar. 21.
- Rim, Demountable. H. M. Howell. No. 1,433,279; Oct. 24.
- Rim, Demountable. H. M. Howell. No. 1,437,105; Nov. 28.
- Rim, Demountable. F. A. Lane. No. 1,409,734; Mar. 14.
- Rim, Demountable. A. H. Madara. No. 1,427,006; Aug. 22.
- Rim, Demountable. H. N. Moody. Nos. 1,426,089-90; Aug. 15.
- Rim, Demountable. R. H. Pierce and G. A. Anderson. No. 1,416,505; May 16.
- Rim, Demountable. K. Rischmuller. No. 1,405,803; Feb. 7.
- Rim, Demountable. A. C. Stantz. No. 1,415,272; May 9.
- Rim, Demountable. S. W. Swanson. No. 1,423,471; July 18.
- Rim, Demountable. F. H. Van Loosen. No. 1,423,283; July 18.
- Rim, Demountable. C. A. Vratil. No. 1,414,844; May 2.
- Rim, Demountable. G. E. Whiteside. No. 1,402,556; Jan. 3.
- Rim, Demountable split. E. P. Smith. No. 1,436,731; Nov. 28.
- Rim expander. G. B. Simpson. No. 1,433,421; Oct. 24.
- Rim expander and contractor. R. F. McKenzie. No. 1,434,786; Nov. 7.
- Rim expander and contractor. S. T. McLellan. No. 1,435,867; Nov. 14.
- Rim expander and lock. T. F. Lawter. No. 1,428,486; Sept. 5.
- Rim expanding and contracting tool. W. S. Norden. No. 1,428,052; Sept. 5.
- Rim-expanding tool. R. J. Loomis. No. 1,426,577; Aug. 22.
- Rim fastener. W. Broadway and T. C. Pledger. No. 1,424,078; July 25.
- Rim lock. J. H. De Boe. No. 1,439,613; Dec. 19.
- Rim-locking attachment. W. H. McGowen. No. 1,426,307; Aug. 15.
- Rim-locking device, Demountable. W. A. Clench. No. 1,440,210; Dec. 26.
- Rim-lug shim. J. T. Curtis. No. 1,425,511; Aug. 15.
- Rim reducing and expanding implement. J. R. Abercrombie. No. 1,428,674; Sept. 12.
- Rim remover. H. J. Stead. No. 1,405,028; Jan. 31.
- Rim, Sectional. W. F. Laing. No. 1,438,836; Dec. 12.
- Rim, Sectional demountable. E. W. Ginzel. No. 1,426,288; Aug. 15.
- Rim tool. R. S. Berry and E. T. Rushton. No. 1,434,244; Oct. 31.
- Rim tool. W. H. Buttram. No. 1,420,813; June 27.
- Rim tool. E. P. Coffey. No. 1,430,058; Sept. 26.
- Rim tool. C. and W. Hibbard. No. 1,430,993; Oct. 3.
- Rim tool. S. Johnson. No. 1,420,927; June 27.
- Rim tool. P. R. Peterson. No. 1,423,375; July 25.
- Rim tool. J. Schmidt. No. 1,436,115; Nov. 21.
- Rim tool. G. V. Sears. No. 1,417,863; May 30.
- Rim tool. L. E. Stein. No. 1,404,065; Jan. 17.
- Rim tool and long jack, Combination split. H. B. Tobias. No. 1,406,302; Feb. 14.
- Rim, Transplit. E. K. Baker. No. 1,435,577; Nov. 14.
- Rim wheel, Steel. W. E. Williams. No. 1,402,030; Jan. 3.
- Rims and bands, Machine for sizing and punching. W. R. Edwards and J. Lukes. No. 1,419,619; June 13.
- Rims and tires, Holder for. D. G. Roos. No. 1,407,300; Feb. 21.
- Rims and tires, Lock for demountable. R. Moncure. No. 1,417,549; May 30.
- Rims and tires, Lock for spare. E. H. Benedick. No. 1,402,472; Jan. 3.
- Rims, Bolt lock for demountable. W. E. Lott. No. 1,415,938; May 16.
- Rims, Clamping device for demountable. C. A. La Cour. No. 1,425,025; Aug. 8.
- Rims, Cutting over metal. A. L. Johnson. No. 1,423,222; July 18.
- Rims, Driving means for demountable. L. B. Harvey. No. 1,412,111; Apr. 11.
- Rims, Inner-tube protector for clincher. M. W. Rogers. No. 1,406,687; Feb. 14.
- Rims, Locking device for demountable. H. W. Martin and L. M. Calhoun. No. 1,424,576; Aug. 1.
- Rims, Locking means for demountable. L. L. Darrow and F. W. Hoessel. No. 1,407,787; Feb. 28.
- Rims, Means for contracting or expanding split demountable. W. H. Bauert. No. 1,438,514; Dec. 12.
- Rims or wheels, Carrier for spare. C. W. McKinley. No. 1,410,107; Mar. 21.
- Rims or wheels, Carrier for spare. H. R. Saxon. No. 1,412,752; Apr. 11.
- Rims, Shim plate for. H. J. Hick. No. 1,410,302; Mar. 21.
- Rims, Tool for collapsing and expanding split. T. W. Stutz. No. 1,402,674; Jan. 3.
- Rims, Tool for contracting or expanding demountable. J. W. Roberts. No. 1,424,680; Aug. 1.
- Rims, Tool for expanding and contracting. W. K. Wolf. No. 1,410,861; Mar. 28.
- Rims, Tool for handling demountable. R. D. Hughes. No. 1,414,879; May 2.
- Rims, Tool for operating split wheel. J. S. Porter. No. 1,406,680; Feb. 14.
- Ring: See—
- Bull ring. Lamp ring.
- Cheese ring. Nose ring.
- Collector ring. Packing ring.
- Connecting ring. Piston ring.
- Dental casting ring. Piston and piston ring.
- Dustproof oil ring. Piston packing ring.
- Earring. Prize ring.
- Emery ring. Spinning ring.
- Finger ring. Umbrella ring.
- Key ring.
- Ring. J. Hochenauer, Jr. No. 1,407,863; Feb. 28.
- Ring and cigarette holder, Finger. B. Chafetz. No. 1,434,590; Nov. 7.
- Ring and plate therefor. R. Rosenthal. No. 1,417,352; May 23.
- Ring and setting. R. Rosenthal. No. 1,412,810; Apr. 11.
- Ring dowel for the connection of wood pieces. S. Voss. No. 1,409,320; Mar. 14.
- Ring gauge. J. Bath. No. 1,438,681; Dec. 12.
- Ring gauge. M. L. Clopton. No. 1,424,082; July 25.
- Ring-grinding machine. R. D. Gardner. No. 1,416,952; May 23.
- Ring-groove cleaner. L. E. Weddle. No. 1,419,790; June 13.
- Ring stretcher. J. O. Pollack. No. 1,432,783; Oct. 24.
- Ring thread gauge. E. J. Bryant and E. G. Johnson. No. 1,433,528; Oct. 31.
- Ring-slot-cleaning tool. B. Baldwin. No. 1,416,673; May 23.
- Ring-spinning and like machines, Separator for. J. R. Williams. No. 1,408,324; Feb. 28.
- Ring tool. L. Shell. No. 1,410,415; Mar. 21.
- Ring traveler. P. C. Wentworth. Nos. 1,415,069-71; May 9.
- Ring traveler. P. C. Wentworth. No. 1,415,073; May 9.
- Ringling regulator. J. F. Toomey. No. 1,408,784; Mar. 7.
- Rings and the like, Making. A. S. Campbell. No. 1,426,275; Aug. 15.
- Rings, Cutter for transfer. G. T. Twiddy. No. 1,402,323; Jan. 3.
- Rings, Machine for enlarging. E. T. Goldberg. No. 1,429,502; Sept. 19.
- Rings, Machine for forming forged. G. F. Ackerman. No. 1,432,228; Oct. 17.
- Rings, Making composite. A. O. Burgess. No. 1,415,520; May 9.
- Rings, Making finger. S. M. Grossman. No. 1,431,652; Oct. 10.
- Rings, Manufacturing metal. M. T. Lothrop. No. 1,402,508; Jan. 3.
- Ringlet. L. Levussore. No. 1,403,792; Jan. 17.
- Ripping device. J. C. McGee. No. 1,405,529; Feb. 7.
- Rivet brace. J. A. Taylor. No. 1,439,343; Dec. 19.
- Rivet breaker. H. Keller. No. 1,419,269; June 13.
- Rivet cutter. H. H. Arn. No. 1,440,264; Dec. 26.
- Rivet-driving tools, Brace for. J. A. Taylor. No. 1,439,342; Dec. 19.
- Rivet-feeding mechanism. A. F. Renaud. No. 1,416,509; May 16.
- Rivet-feeding mechanism. A. F. Renaud. No. 1,421,310; June 27.
- Rivet heads, Process of and device for removing. B. C. Wysong. No. 1,436,557; Nov. 21.
- Rivet holder. E. Hahnemann. No. 1,432,332; Oct. 17.
- Rivet passer, Hot. B. M. Hanly. No. 1,413,727; Apr. 25.
- Rivet-setting machines, String holding and cutting adjustment for. H. Parkinson. No. 1,423,250; July 18.
- Riveter. W. P. Krause. No. 1,404,126; Jan. 17.
- Riveting bar. V. J. Power. No. 1,414,095; Apr. 25.
- Riveting, Electromagnetic power anvil block for. P. G. Sigond. No. 1,432,362; Oct. 17.
- Riveting machine. W. H. Kennedy. No. 1,433,953; Oct. 31.
- Riveting machine. F. H. Shaw. No. 1,402,901; Jan. 10.
- Riveting mechanism. E. I. Dodds. No. 1,436,386; Nov. 21.
- Riveting set, Retaining device for a. T. J. James. No. 1,425,482; Aug. 8.
- Riveting tool. F. A. Becker and A. P. Andlauer. No. 1,417,711; May 30.
- Rivets, Device for inserting. J. Schuette. No. 1,422,381; July 11.
- Rivets, Furnace for heating of. A. Twer. No. 1,404,331; Jan. 24.
- Road antiwashing construction. T. H. Farrell. No. 1,420,535; June 20.
- Road-building apparatus. C. A. Smith. No. 1,422,895; July 18.
- Road-building machine. J. H. Holtzslaw. No. 1,404,612; Jan. 24.
- Road-building machine. S. O. Peterson. No. 1,410,114; Mar. 21.
- Road-building machinery. C. D. Farmer and H. W. Libby. No. 1,439,879; Dec. 26.
- Road construction. D. W. Bowe. No. 1,432,957; Oct. 24.
- Road construction. G. H. Padgett. No. 1,406,068; Feb. 7.
- Road construction, Reinforced. G. W. Dy Arman. No. 1,435,702; Nov. 14.

- Road construction, Spreader for. C. W. Yelm. No. 1,417,709; May 30.
- Road drag. E. S. Anderson. No. 1,420,605; June 20.
- Road drag or scraper. J. Kaliwoda. No. 1,426,992; Aug. 22.
- Road grader. C. D. Edwards. No. 1,429,026; Sept. 12.
- Road grader. C. H. Welsh. No. 1,425,303; Aug. 8.
- Road grader and scraper, Combined. S. O. Hays. No. 1,412,347; Apr. 11.
- Road, Highway. W. E. Williams. No. 1,423,893; July 25.
- Road indicator. J. Campbell. No. 1,465,273; Jan. 31.
- Road leveler. W. R. Bauwart. No. 1,418,225; May 30.
- Road leveler. J. Northon. No. 1,428,973; Sept. 12.
- Road machine. L. De Camp. No. 1,402,148; Jan. 3.
- Road machine. M. A. Esty. No. 1,421,981; June 27.
- Road maintainer. D. B. Reardon. No. 1,429,768; Sept. 19.
- Road making. H. H. Hurt. No. 1,424,308; Aug. 1.
- Road-map holder and indicator. J. Letson. No. 1,439,247; Dec. 19.
- Road marker. L. H. Smith. No. 1,426,420; Aug. 22.
- Road recorder and indicator. T. J. Smulski. No. 1,429,374; Sept. 19.
- Road recorder and indicator. T. J. Smulski. No. 1,433,665; Oct. 31.
- Road roller. A. W. Aitken. No. 1,427,751; Aug. 29.
- Road rollers. Attachment for. D. Erter. No. 1,404,380; Jan. 24.
- Road rollers, Derrick attachment for. J. Mascetti. No. 1,423,724; July 25.
- Road-scarifying device. H. D. Jones. No. 1,429,144; Sept. 12.
- Road scraper. O. O. Price. No. 1,418,465; June 6.
- Road surfaces, Applying binding media to. S. E. Finley. No. 1,411,777; Apr. 4.
- Road-surfacing machine. H. W. Neudeck. No. 1,412,193; Apr. 11.
- Roadway. A. T. Newell. No. 1,435,618; Nov. 14.
- Roadway. A. T. Newell. No. 1,436,896; Nov. 28.
- Roadway, Portable. A. C. Luetgert and E. H. Meiklejohn. No. 1,422,280; July 11.
- Road-working apparatus, Auxiliary lift for. G. Davis. No. 1,438,948; Dec. 19.
- Road-working machine. P. B. Amstutz. No. 1,440,263; Dec. 26.
- Road-working machine. C. H. Hast. No. 1,437,654; Dec. 5.
- Road-working machine. D. B. McCall. No. 1,410,585; Mar. 28.
- Roads and the like, Apparatus for use in repair of. E. Meldal. No. 1,424,507; Aug. 1.
- Roads, Braking device for portable logging. D. A. Wilson. No. 1,406,709; Feb. 14.
- Roads, Making. L. S. van Westrum. (Reissue.) No. 1,540,1; July 4.
- Roaster. H. C. Mievile. No. 1,432,407; Oct. 17.
- Roasting apparatus. C. Cretors. No. 1,436,862; Nov. 28.
- Roasting machine. C. Ortega. No. 1,434,664; Nov. 7.
- Roasting pans, Basting cover for. C. A. Gill. No. 1,413,579; Apr. 25.
- Robbers, Apparatus for trapping bank. F. Weinmann. No. 1,406,788; Feb. 14.
- Robe, etc. J. Weimann. No. 1,403,661; Jan. 17.
- Rock and sand heater and grader. J. J. Brown. No. 1,430,790; Oct. 3.
- Rock crusher. C. W. Ackermann. No. 1,424,792; Aug. 8.
- Rock-cutting apparatus, Subaqueous. H. O. Bedgood. No. 1,432,828; Oct. 24.
- Rock-cutting machine. J. W. Cook. No. 1,430,493; Sept. 26.
- Rock-cutting machine. F. J. Palma. No. 1,419,980; June 20.
- Rock drill. J. Beaudry. No. 1,436,470; Nov. 21.
- Rock drill. W. A. Smith. Nos. 1,414,224-5; Apr. 25.
- Rock drill. W. A. Smith. No. 1,415,957; May 16.
- Rock drill. W. A. Smith. No. 1,418,333; June 6.
- Rock drill. W. A. Smith. No. 1,424,188; Aug. 1.
- Rock drill. W. A. Smith. No. 1,429,786; Sept. 19.
- Rock drill. W. A. Smith. No. 1,430,764; Oct. 3.
- Rock drill and like cutting machine. A. Berner. No. 1,417,227; May 23.
- Rock drill for supplying water to bore holes during drilling, Reciprocating. W. E. Nettle, P. Selvy, J. Blythe, and J. H. Holman. No. 1,428,606; Sept. 12.
- Rock drill, Tubular. H. Hundrieser. No. 1,422,361; July 11.
- Rock-drilling apparatus, Percussive. R. H. Adams. No. 1,403,583; June 17.
- Rock-drilling machines, Shell for. R. P. Saffold. No. 1,412,712; Apr. 11.
- Rock drills, Air-feed control for. L. C. Bayles. No. 1,436,638; Nov. 28.
- Rock drills, Air-feed control for. W. A. Smith. Nos. 1,406,906-8; Feb. 14.
- Rock drills, Automatic air-feed control for. W. A. Smith. No. 1,415,958; May 16.
- Rock drills, Automatic feed control for. W. A. Smith. No. 1,413,499; Apr. 18.
- Rock drills, Dirt shield for. O. E. Clark. No. 1,408,691; Mar. 7.
- Rock drills, Front head for. C. P. Beaver. No. 1,403,284; Jan. 10.
- Rock drills, Manual air-feed control for. L. C. Bayles. No. 1,437,632; Dec. 5.
- Rock pulverizer. J. D. and S. D. Ross. No. 1,431,428; Oct. 10.
- Rocker, Child's. R. Toal. No. 1,412,723; Apr. 11.
- Rocking-chair. H. Schöps. No. 1,438,667; Dec. 12.
- Rocks, Obtaining in soluble state some of the constituents of complex. F. Jourdan. No. 1,417,831; May 30.
- Rocket. D. Riabouchinski. No. 1,440,175; Dec. 26.
- Rod. See—
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| Connecting rod. | Priming rod. |
| Curtain rod. | Radius rod. |
| Cutter rod. | Self-aligning connecting rod. |
| Extension rod. | rod. |
| Fishing rod. | Stay rod. |
| Jointed rod. | Sucker rod. |
| Operating rod. | Tow rod. |
| Panel rod. | Truck-lever connecting rod. |
| Portiere rod. | |
- Rod adjustment, Longitudinal. T. J. Gorman. No. 1,418,298; June 6.
- Rod and cross-pin connection and making same. C. F. S. Byrne. No. 1,417,229; May 23.
- Rod and making same. A. J. Gauthier. No. 1,415,091; May 9.
- Rod and tool coupling. S. E. Lane. No. 1,415,658; May 9.
- Rod coupling. J. E. Pierce. No. 1,408,530; Mar. 7.
- Rod coupling. E. L. Williams. No. 1,431,072; Oct. 3.
- Rod cutter. V. Barton. No. 1,438,888; Dec. 12.
- Rod head, Connecting. L. Saives. No. 1,407,442; Feb. 21.
- Rod-line stretcher and well bumper. W. V. Reichard. No. 1,436,531; Nov. 21.
- Rod mill. F. J. Behneman and H. S. Rexworthy. No. 1,414,768; May 2.
- Rod or well-casing elevator. B. B. Coultas and E. J. Stanley. No. 1,436,621; Nov. 21.
- Rod packing. A. Wright. No. 1,417,877; May 30.
- Rod socket. H. W. Todd. No. 1,419,780; June 13.
- Rod-straightening machine. J. E. Schmidt and C. E. McArthur. No. 1,418,026; May 30.
- Rods and the like, Pivot joint for. H. B. McCandless. No. 1,435,017; Nov. 7.
- Rods and tubes, Process and apparatus for forming laminated. W. H. Kempton. No. 1,417,743; May 30.
- Rods, Device for boring connecting. W. J. Brown. No. 1,414,337; May 2.
- Rods, Forming laminated. A. J. Bastian. No. 1,431,922; Oct. 17.
- Rods, Lock joint for. L. P. Shaw. No. 1,403,201; Jan. 10.
- Rods, Oiling device for reach. A. B. Breeze. No. 1,415,000; May 2.
- Rods or tubes, Device for bending metal. J. N. Reynolds. No. 1,430,323; Sept. 26.
- Rodent trap. G. A. Pattberg. No. 1,432,356; Oct. 17.
- Roll. E. Reed. No. 1,405,161; Jan. 31.
- Roll. J. Witzig. No. 1,414,449; May 2.
- Roll-forming machine. C. H. Norton. No. 1,419,073; June 6.
- Roll, Snapping. H. F. Gritzmacher. No. 1,421,459; July 4.
- Roll, Snapping. G. M. Merwin. No. 1,433,020; Oct. 24.
- Rolls, Stone press. J. W. Vedder. No. 1,413,436; Apr. 18.
- Roller. See—
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| Cigarette roller. | Photographic roller. |
| Conveyer roller. | Power net roller. |
| Curtain roller. | Road roller. |
| Curtain-shade roller. | Shade roller. |
| Elastic roller. | Sliding-door roller. |
| Expansion feed roller. | Snow plow and roller. |
| Feed roller. | Tandem roller. |
| Feeding roller. | Window-shade roller. |
| Leather roller. | |
- Roller. E. S. Aten. No. 1,411,828; Apr. 4.
- Roller. G. W. Kehres. No. 1,408,605; Mar. 7.
- Roller. O. Linder. No. 1,404,209; Jan. 24.
- Roller. F. R. Piper. No. 1,416,748; May 23.
- Roller and rotary harrow, Combination. H. M. Lofton. No. 1,408,615; Mar. 7.
- Roller bearing. S. G. Wingquist. No. 1,415,969; May 16.
- Roller copying machines, Paper roll for. R. Berger. No. 1,415,084; May 9.
- Roller jack. C. F. Stalcup. No. 1,405,349; Jan. 31.
- Roller surfacing or polishing machine. L. Bogi. Nos. 1,429,316-17; Sept. 19.
- Rolling, Aluminum. M. Miller. No. 1,438,544; Dec. 12.
- Rolling cutter. G. W. Blankenhorn. No. 1,407,316; Feb. 21.
- Rolling machine. C. G. Grotnes. No. 1,428,778; Sept. 12.
- Rolling machine. K. Kreyer. No. 1,408,608; Mar. 7.
- Rolling machine. E. E. Slick. No. 1,423,268; July 18.
- Rolling mill. C. L. Huston. No. 1,440,221; Dec. 26.
- Rolling mill. J. Kennedy. No. 1,431,668; Oct. 10.
- Rolling mill. J. M. Perry. No. 1,411,583; Apr. 4.
- Rolling mill. J. Reimann. No. 1,412,261; Apr. 11.
- Rolling mill. J. Reimann. No. 1,424,678; Aug. 1.
- Rolling mill, Continuous. H. J. Davis. No. 1,428,944; Sept. 12.
- Rolling-mill drive. H. H. Talbot. No. 1,439,341; Dec. 19.
- Rolling mill, Step-by-step. W. Feller. No. 1,413,715; Apr. 25.
- Rolling mills, Adjustable coupling for. M. Schneider. No. 1,412,317; Apr. 11.
- Rolling mills, Automatic lubricating device for. H. N. Little and W. B. Gormely. No. 1,425,110; Aug. 8.

Alphabetical list of inventions—Continued.

- Rolling mills, Delivery mechanism for. A. E. Jupp and R. C. Crooks. No. 1,423,856; July 25.
- Rolling mills, Electromagnetically-operated plate or bar handling skid for. J. J. Inglis. No. 1,440,222; Dec. 26.
- Rolling mills, Iron mold for casting rolls for. T. Weymerskirch. No. 1,438,677; Dec. 12.
- Rolling mills, Lubricating device for. G. E. Melown. No. 1,421,805; July 4.
- Rolling mills, Manipulator for feed tables for. C. H. Hunt. No. 1,403,082; Jan. 10.
- Rolling mills, Roll for. F. M. Canda. No. 1,427,063; Aug. 22.
- Rolling mills, Roll for. F. M. Canda. No. 1,428,142; Sept. 5.
- Rolling mills, Work-handling apparatus for. H. A. Lewis. No. 1,413,600; Apr. 25.
- Rolling-stock safety device. W. S. Arleskie. No. 1,416,926; May 23.
- Rolling window screen. N. H. Nelson. No. 1,405,618; Feb. 7.
- Rollers, Machine for pressing lines or designs into. R. Laing. No. 1,414,574; May 2.
- Rollers, Safety device for winding and unwinding. W. E. Beadle. No. 1,412,904; Apr. 18.
- Rompers. M. K. Redford. No. 1,424,589; Aug. 1.
- Röntgen-ray tubes, Appliance for regulating the hardness of. H. F. Eiken. No. 1,418,139; May 30.
- Roof. D. Craig. No. 1,427,943; Sept. 5.
- Roof. G. E. Swenson. No. 1,421,040; June 27.
- Roof and like covering. W. H. Griffiths. No. 1,424,566; Aug. 1.
- Roof collar, Adjustable. O. M. Redlon. No. 1,425,418; Aug. 8.
- Roof construction. C. Burnett. No. 1,405,966; Feb. 7.
- Roof construction. G. R. Dean. No. 1,439,072; Dec. 19.
- Roof construction. W. S. Hutchinson. No. 1,413,584; Apr. 25.
- Roof construction. J. Macnaughton and W. T. Oldrieve. No. 1,410,823; Mar. 28.
- Roof-edging device. F. W. Hennessy. No. 1,430,446; Sept. 26.
- Roof flange. R. M. McGraw. No. 1,406,469; Feb. 14.
- Roof flashing. G. E. Swenson. No. 1,428,457; Sept. 5.
- Roof, Metallic. H. H. Crawford. No. 1,406,980; Feb. 21.
- Roof, Metallic. W. F. Edwards. No. 1,426,558; Aug. 22.
- Roof-scraping machine. J. S. Pereiman. No. 1,415,949; May 16.
- Roof, Sheet-metal. J. A. J. Andersson. No. 1,433,333; Oct. 24.
- Roof structure. L. Baumgart. No. 1,417,487; May 30.
- Roof structure. G. Geyer. No. 1,417,513; May 30.
- Roof structure. C. I. Walker. No. 1,426,832; Aug. 22.
- Roofing. J. M. Berdan. No. 1,422,526; July 11.
- Roofing. F. Christenson. No. 1,433,983; Oct. 31.
- Roofing. J. F. Donahue. No. 1,431,103; Oct. 3.
- Roofing. J. F. Donahue and M. G. Staley. No. 1,431,102; Oct. 3.
- Roofing. C. B. Jaynes. No. 1,418,377; June 6.
- Roofing and lock therefor, Beaded. W. Mayfield. No. 1,410,945; Mar. 28.
- Roofing and similar construction. J. F. Loucks. No. 1,403,510; Jan. 17.
- Roofing and weatherproofing material, Bituminous sheet. C. N. Forrest. No. 1,429,728; Sept. 19.
- Roofing, Built-up. W. A. Harris. No. 1,427,755; Aug. 29.
- Roofing construction. I. C. Saxe. No. 1,435,623; Nov. 14.
- Roofing fabric. W. M. Chase. No. 1,434,200; Oct. 31.
- Roofing element. S. M. Ford. No. 1,424,459; Aug. 1.
- Roofing, Gauge for laying. J. Wilson. No. 1,405,083; Jan. 31.
- Roofing, Handling prepared. S. M. Ford. No. 1,410,667; Mar. 28.
- Roofing machine. O. P. Kiracofe. No. 1,410,018; Mar. 21.
- Roofing machine. G. E. and J. Van Vorst. No. 1,427,871; Sept. 5.
- Roofing, Machine for making ornamental. F. C. Overbury. No. 1,419,169; June 13.
- Roofing material. M. H. Elvidge. No. 1,414,778; May 2.
- Roofing material. M. H. Elvidge. No. 1,434,332; Oct. 31.
- Roofing, Ornamental. F. C. Overbury. No. 1,418,456; June 6.
- Roofing, Sheet-metal. E. R. Probert. No. 1,406,082; Feb. 7.
- Roofing sheets, Corner construction for flanged. D. W. Hawksworth. No. 1,411,352; Apr. 4.
- Roofing shingle strip, Prepared. R. B. Crabbs. No. 1,415,923; May 16.
- Roofing, Shingled. J. H. Munro. No. 1,439,435; Dec. 19.
- Roofing slabs, Making. A. S. Speer. (Reissue.) No. 15,496; Nov. 21.
- Roofing strip. F. Laist and L. E. Jones. No. 1,428,169; Sept. 5.
- Roofing tile. A. De Julian. No. 1,414,774; May 2.
- Roofing tile. J. Seiler and E. Reiff. No. 1,416,583; May 16.
- Roofing, Valley. J. H. Munro. No. 1,439,434; Dec. 19.
- Roofs, Edge support for. O. Petersen. No. 1,427,412; Aug. 29.
- Room ventilator. A. Schaffer. No. 1,406,089; Feb. 7.
- Roost, Poultry. F. C. Schlinglof. No. 1,422,624; July 11.
- Rope carrier. J. F. Godfrey. No. 1,427,949; Sept. 5.
- Rope clamp. C. Beecken. No. 1,421,385; July 4.
- Rope clamp. E. E. Greve. No. 1,420,034; June 20.
- Rope clip. J. Knight. No. 1,428,037; Sept. 5.
- Rope fastener, Adjustable. W. C. Harley. No. 1,408,940; Mar. 7.
- Rope grip. A. Bauer. No. 1,418,902; June 6.
- Rope grip. N. A. Raney. No. 1,438,261; Dec. 12.
- Rope handle. H. W. Fisher. No. 1,436,703; Nov. 28.
- Rope machine. J. M. Cattoor. No. 1,430,519; Sept. 26.
- Rope-making machine, Hand. W. H. Fullington. No. 1,432,991; Oct. 24.
- Rope or cable connector or grip. L. C. Gierymski and C. Bobdanovicz. No. 1,427,284; Aug. 29.
- Rope or strap fastener. E. D. Barton. No. 1,426,535; Aug. 22.
- Rope-sheave structure. W. E. Hale. No. 1,431,788; Oct. 10.
- Rope socket. W. D. Shaffer. No. 1,429,371; Sept. 19.
- Rope swivel socket. J. M. Miller. No. 1,432,117; Oct. 17.
- Rope-thrusting shovel. W. Ferris and S. R. W. M. Bager. No. 1,430,297; Sept. 26.
- Rope tightener. W. L. Witte. No. 1,422,804; July 11.
- Rope, Tow. A. L. Regan. No. 1,420,026; June 27.
- Ropes, cables, and the like, Automatic coupling for. D. Gariglio. No. 1,426,563; Aug. 22.
- Ropes, Making handles for. W. H. Fullington. No. 1,438,993; Dec. 19.
- Ropes, Take-up for skip-hoist. R. H. Beaumont. No. 1,436,566; Nov. 21.
- Ropes, Wringer for anchor. J. A. Holzapfel. No. 1,432,185; Oct. 17.
- Rose-engine-turning machine. C. B. Oulton. No. 1,428,801; Sept. 12.
- Rosin and using same, Compound for hardening common. W. H. Scheel. No. 1,428,120; Sept. 5.
- Rosin material for sizing. J. A. De Cew. No. 1,433,124; Oct. 24.
- Rotary and folding apparatus. A. Fallot. No. 1,413,841; Apr. 25.
- Rotary bit. A. B. Ellis. No. 1,411,772; Apr. 4.
- Rotary bit, Curved-wing. G. E. Putnam. No. 1,427,019; Aug. 22.
- Rotary cutter. R. E. Foote. No. 1,411,335; Apr. 4.
- Rotary cutter, Self-rolling. C. J. Petrasek. No. 1,421,713; July 4.
- Rotary cutter, Self-propelling. S. C. Sladden. No. 1,426,919; Aug. 22.
- Rotary drier. A. MacKay. No. 1,406,991; Feb. 21.
- Rotary-drill cutter. H. R. Hughes. No. 1,412,003; Apr. 4.
- Rotary-drill extension. C. S. Bocchio. No. 1,414,110; Apr. 25.
- Rotary engine. B. F. Augustine. No. 1,414,976; May 2.
- Rotary engine. H. F. Hansen. No. 1,410,099; Mar. 21.
- Rotary engine. M. P. Holmes. No. 1,440,265; Dec. 26.
- Rotary engine. M. Masson. No. 1,412,190; Apr. 11.
- Rotary engine. J. W. McQueen. No. 1,434,446; Nov. 7.
- Rotary engine. T. Raugstad. No. 1,415,393; May 9.
- Rotary engine. H. E. Smith. No. 1,407,094; Feb. 21.
- Rotary engine. F. D. Wilson. No. 1,420,009; June 20.
- Rotary machine. F. Eggersdörfer. No. 1,422,946; July 18.
- Rotary motion into reciprocating motion, Mechanism for converting. T. W. Fernholtz. No. 1,420,826; June 27.
- Rotary motor. C. A. Dies. No. 1,434,104; Oct. 31.
- Rotary ventilator. W. F. Hirschman. No. 1,416,295; May 16.
- Rotating bodies, Prevention or reduction of vibration in. G. G. Stoney. No. 1,434,414; Nov. 7.
- Rotating table. T. Davidenia. No. 1,433,604; Oct. 31.
- Rotation indicator, Speed-of. H. L. Tanner. No. 1,434,799; Nov. 7.
- Rotation of a body, Arrangement for the determination of the direction of the axis of. H. Hort. No. 1,434,209; Oct. 31.
- Rotor. A. W. Carlson. No. 1,417,029; May 23.
- Rotor construction, Brazed. C. E. Johnson and N. E. Brown. No. 1,433,622; Oct. 31.
- Rotor, Separating. L. S. Longenecker. No. 1,427,001; Aug. 22.
- Rotor spider. J. Burke. No. 1,422,414; July 11.
- Rouletaphone. C. H. Maier. No. 1,431,170; Oct. 10.
- Round stock, Apparatus for turning handles from. J. S. Tilling and H. Dobbins. No. 1,415,416; May 9.
- Rounding machine. A. R. Schoenky. No. 1,428,261; Sept. 5.
- Roundabout. C. E. Brown. No. 1,418,775; June 6.
- Roundabout. W. C. Lehman. No. 1,406,040; Feb. 7.
- Roundabout. W. Pasturezak. No. 1,426,314; Aug. 15.
- Roundabout, Gyrotray. E. Kohler. No. 1,421,013; June 27.
- Routing tool. J. N. Baker. No. 1,423,511; July 25.
- Routing tool. G. F. McCarty. No. 1,439,829; Dec. 26.
- Roving and similar machines, Detector for. T. Bentley. No. 1,415,917; May 16.
- Roving frames, Flier for. L. W. Campbell. No. 1,420,966; June 27.
- Roving apparatus. A. W. F. Bennik. No. 1,438,688; Dec. 12.
- Rowlock. W. J. Tresnak. No. 1,436,613; Nov. 21.
- Rubber, Accelerator for vulcanizing. P. I. Murrill. No. 1,436,894; Nov. 28.
- Rubber acid-proof containers, Making. J. Lehr. No. 1,431,471; Oct. 10.

- Rubber and filamentary material and products obtained therefrom. Production of fabrications of. E. Hopkinson. No. 1,424,020; July 25.
- Rubber and leather heels to shoes, Attaching. G. F. Quinn. No. 1,435,735; Nov. 14.
- Rubber and like materials, Machine for mixing or masticating. D. R. Bowen and C. F. Schnuck. No. 1,424,445; Aug. 1.
- Rubber and other like substances, Vulcanization of. B. D. Porritt. No. 1,418,166; May 30.
- Rubber and other materials, Making rings for cutting. C. M. Logan. No. 1,407,470; Feb. 21.
- Rubber and products obtained thereby, Vulcanizing. I. Ostromislensky. No. 1,433,093; Oct. 24.
- Rubber and products thereof, compounding and vulcanizing. R. P. Rose. No. 1,433,099; Oct. 24.
- Rubber and similar materials, Vulcanization of. D. F. Twiss. No. 1,413,813; Apr. 25.
- Rubber, Apparatus and method of calendering. J. S. Gwozd. No. 1,402,160; Jan. 3.
- Rubber articles, Apparatus and method for imprinting hard-. A. C. Brose. No. 1,410,732; Mar. 28.
- Rubber articles, Apparatus for vulcanizing. M. O. Kasson. No. 1,427,109; Aug. 29.
- Rubber articles, Forming hard-. J. F. Johnston and G. W. Bulley. No. 1,435,526; Nov. 14.
- Rubber articles, Making perforated blown. T. Davis. No. 1,409,154; Mar. 14.
- Rubber articles, Manufacturing vulcanized-. M. M. Harrison and H. A. Morton. No. 1,434,892; Nov. 7.
- Rubber articles, Method of and apparatus for making hollow. H. R. Stratford. No. 1,430,699; Oct. 3.
- Rubber articles, Method of and apparatus for preventing air bubbles in laminated. F. T. Roberts. No. 1,433,971; Oct. 31.
- Rubber articles, Mold adapted for use in vulcanizing. W. F. Clark. No. 1,422,084; July 11.
- Rubber articles, Mold for making. W. A. Snook. No. 1,410,615; Mar. 28.
- Rubber articles, Treating. E. C. Taylor. No. 1,422,147; July 11.
- Rubber articles, Vulcanizing. H. D. Ayres. No. 1,408,678; Mar. 7.
- Rubber balls and the like, Painting. F. A. Cigol and L. D. Villa. No. 1,420,306; June 20.
- Rubber-boot repairer. E. C. Julian. No. 1,406,261; Feb. 14.
- Rubber-coated textiles, Machine for the production of. A. Boecler. No. 1,406,919; Feb. 14.
- Rubber collar. T. Hase. No. 1,414,640; May 2.
- Rubber composition. R. R. Williams. No. 1,438,735; Dec. 12.
- Rubber, Composition for treating manufactured. R. B. Martin. No. 1,422,115; July 11.
- Rubber-containing latex, Product obtained from. E. Hopkinson. No. 1,423,526; July 25.
- Rubber-containing latex, Treating. E. Hopkinson. No. 1,423,525; July 25.
- Rubber-covered tank for containing inflammable liquids. S. C. Mote. No. 1,406,478; Feb. 14.
- Rubber cylinders, Making. J. R. Gammeter. No. 1,405,998; Feb. 7.
- Rubber employing amines and open-chain aldehydes and similar substances and products obtained thereby, Vulcanization of. S. M. Cadwell. No. 1,417,970; May 30.
- Rubber footwear, Making. A. A. Glidden, T. E. La Fayette, and J. J. Gaughan. No. 1,435,636; Nov. 14.
- Rubber-forming machine. J. W. Gomersall. No. 1,422,561; July 11.
- Rubber foxing, Device for laying and indenting. W. G. Cheney. No. 1,413,707; Apr. 25.
- Rubber garter. E. G. Howard. No. 1,421,690; July 4.
- Rubber gasket, packing, etc. E. O. Benjamin. No. 1,409,277; Mar. 14.
- Rubber globe. E. M. Walters. No. 1,422,642; July 11.
- Rubber goods, Apparatus for forming hollow. H. W. Roberts and J. H. Overton. No. 1,404,390; Jan. 24.
- Rubber heel. S. Adamczyk. No. 1,436,930; Nov. 28.
- Rubber heel. H. L. Beal. No. 1,428,524; Sept. 12.
- Rubber heel. G. Bornmann. No. 1,429,673; Sept. 19.
- Rubber heel. A. Costantino. No. 1,423,399; July 18.
- Rubber heel. H. M. Follweiler. No. 1,409,692; Mar. 14.
- Rubber heel. L. Kaplan. No. 1,422,446; July 11.
- Rubber heel. J. McGee. No. 1,437,065; Nov. 28.
- Rubber heel. F. Neger. No. 1,404,045; Jan. 17.
- Rubber heel. G. F. Quinn. No. 1,402,377; Jan. 3.
- Rubber heel. A. E. Rope. No. 1,426,218; Aug. 15.
- Rubber heel. G. C. Wood. No. 1,412,076; Apr. 11.
- Rubber heel and making same. F. R. Keith. No. 1,426,198; Aug. 15.
- Rubber heel, Exchangeable india-. G. Milse. No. 1,438,775; Dec. 12.
- Rubber-heel molds, Apparatus for placing washers in. H. F. Maranville. No. 1,429,359; Sept. 19.
- Rubber-heel molds, Applying washers to. H. A. Denmire. No. 1,435,218; Nov. 14.
- Rubber-heel molds, Washer-placing machine for. J. H. Kintzele, A. Manheimer, and F. M. Etter. No. 1,424,920; Aug. 8.
- Rubber-heel molds, Washer-placing machine for. A. Manheimer, F. M. Etter, and J. H. Kintzele. No. 1,424,931; Aug. 8.
- Rubber heel, Reversible interchangeable. J. W. Meyers. No. 1,417,275; May 23.
- Rubber jars, Manufacture of. L. E. Klug. No. 1,406,160; Feb. 7.
- Rubber knee pad. A. A. Burnett and V. L. Darrow. No. 1,434,808; Nov. 7.
- Rubberlike material, Making a. J. C. Wichmann. Nos. 1,435,359-60; Nov. 14.
- Rubberlike substances, Manufacture of. H. Plauson. No. 1,415,468; May 9.
- Rubber, Machine for refining. W. A. Gordon. No. 1,403,681; Jan. 17.
- Rubber, Manufacture of sponge. A. J. Ostberg and A. Kenny. No. 1,422,884; July 18.
- Rubber masticator. C. C. Mosher. No. 1,435,616; Nov. 14.
- Rubber mat. J. H. S. Kerr. No. 1,426,296; Aug. 15.
- Rubber mat. C. H. Oakley. No. 1,421,818; July 4.
- Rubber, Method of and apparatus for making sheet. F. T. Roberts. No. 1,435,659; Nov. 14.
- Rubber mills and like machines, Guard for. L. Gaisman. No. 1,439,544; Dec. 19.
- Rubber nipples, Method of and apparatus for making. R. Sanderson. No. 1,420,287; June 20.
- Rubber of unlike character, Uniting layers of. G. E. Langford. No. 1,402,872; Jan. 10.
- Rubber or other plastic material, Machine for treating. D. R. Bowen and C. F. Schnuck. No. 1,420,959; June 27.
- Rubber or rubberized fabric, Apparatus for vulcanizing articles of. P. J. Knaus. No. 1,422,209; July 11.
- Rubber or the like to fabrics, Machine for applying solutions of. A. Boecler. No. 1,422,822; July 18.
- Rubber, Pedal. R. S. Heise. No. 1,403,242; Jan. 10.
- Rubber, Pedal. R. S. Heise. No. 1,432,392; Oct. 17.
- Rubber playing ball. C. F. Flemming. No. 1,436,028; Nov. 21.
- Rubber products and making the same. E. O. Benjamin. No. 1,409,275; Mar. 14.
- Rubber propeller, Reinforced. H. T. Kraft. No. 1,419,061; June 6.
- Rubber, Reclaiming. J. O. Navone. No. 1,424,668; Aug. 1.
- Rubber, Reclaiming. H. Plauson. No. 1,432,895; Oct. 24.
- Rubberset cushioned implement handle and insert thimble. H. S. Isham. No. 1,435,851; Nov. 14.
- Rubber sheets, Apparatus for producing thin. O. H. Macklin. No. 1,421,795; July 4.
- Rubber shoes, Machine for applying foxing to. L. A. Casgrain. No. 1,439,794; Dec. 26.
- Rubber shoes, Manufacturing. Y. Ose. No. 1,430,677; Oct. 3.
- Rubber shoes, Press and process for vulcanizing. P. J. Klein and E. Kenny. No. 1,432,469; Oct. 17.
- Rubber soles, Apparatus for producing. G. Ferguson. No. 1,406,358; Feb. 14.
- Rubber soles, Mold for manufacturing of. R. F. Knight. No. 1,438,245; Dec. 12.
- Rubber solvents, Device for recovering. A. Boecler. No. 1,426,949; Aug. 22.
- Rubber stock, Gauge for calendered. E. D. Putt. No. 1,437,117; Nov. 28.
- Rubber tiling, Making. W. J. Kent. No. 1,422,570; July 11.
- Rubber tip for French heels. E. B. Helwitz. No. 1,439,104; Dec. 19.
- Rubber, Treating manufactured. R. B. Martin. No. 1,410,699; Mar. 28.
- Rubber, Treatment of. W. A. Beatty. No. 1,418,271; June 6.
- Rubber, Treatment of leather with india. A. McLennan. No. 1,425,530; Aug. 15.
- Rubber tubes, Making. J. G. Moomy. No. 1,433,291; Oct. 24.
- Rubber tubes, Splicing the ends of. W. H. Grote. No. 1,402,492; Jan. 3.
- Rubber tubes, Vulcanizing. J. G. Moomy. No. 1,403,973; Jan. 17.
- Rubber type. H. H. Hellesoe. No. 1,420,376; June 20.
- Rubber, Vulcanizing. H. A. Morton and M. M. Harrison. No. 1,434,908; Nov. 7.
- Rubber, Vulcanizing. R. B. Naylor. No. 1,418,825; June 6.
- Rubber, Vulcanizing. E. Ricard. No. 1,440,176; Dec. 26.
- Rubber vulcanization and product thereof. H. A. Morton. No. 1,434,909; Nov. 7.
- Rubbing machine. E. B. Stuart. No. 1,405,639; Feb. 7.
- Rudder. A. McNab. No. 1,402,080; Jan. 3.
- Rudders, Operating mechanism of kitchen reversing. F. L. Martineau. No. 1,425,887; Aug. 15.
- Rug corner. C. F. Goldthwaite. No. 1,430,981; Oct. 3.
- Rug-display device. I. Malasky. No. 1,428,490; Sept. 5.
- Rug-scouring machine. K. C. and J. H. Jones. No. 1,422,445; July 11.
- Rues, Machine for working. J. E. Garrett. No. 1,409,700; Mar. 14.
- Rule. H. A. Farrand. No. 1,402,589; Jan. 3.
- Rule and form, Printer's. H. S. Babcock. No. 1,436,852; Nov. 28.
- Rule and gauge, Machinist's. A. J. Stock. No. 1,415,615; May 9.
- Rule and pencil holder, Mechanic's. J. R. Platt. No. 1,423,359; July 18.
- Rule attachment. R. Trane. No. 1,427,039; Aug. 22.
- Rule, Calculating guy. J. W. Wright. No. 1,429,264; Sept. 19.

Alphabetical list of inventions—Continued.

- Rule, Circle. E. P. Manly. No. 1,402,629; Jan. 3.
 Rule, Combination. O. L. Engstrom. No. 1,440,284; Dec. 26.
 Rule, Folding. F. Buck. No. 1,432,834; Oct. 24.
 Rule, Folding. W. H. Hart. No. 1,438,234; Dec. 12.
 Rule, Folding. W. H. Hart and D. Gould. Nos. 1,438,235-6; Dec. 12.
 Rule holder. H. L. Cusick. No. 1,403,942; Jan. 17.
 Rule, Measuring. G. W. Bowen. No. 1,418,358; June 6.
 Rule pocket. C. R. Wood. No. 1,407,827; Feb. 28.
 Rule, Slide. E. T. Frankel. No. 1,404,951; Jan. 31.
 Rule, Slide. W. L. Miller. No. 1,431,409; Oct. 10.
 Rule, Slide. M. Tang. No. 1,411,541; Apr. 4.
 Rule, Slider. H. Ritou. No. 1,405,333; Jan. 31.
 Rule with holder, Steel. A. H. Starrett. No. 1,438,617; Dec. 12.
 Ruler blotter. B. Shatz. No. 1,413,794; Apr. 25.
 Ruling apparatus. A. Broadmeyer. No. 1,404,738; Jan. 31.
 Ruling device. Y. Kinoshita. No. 1,434,347; Oct. 31.
 Rules and borders, Machine for making ornamental. M. M. Breit. No. 1,422,532; July 11.
 Rules, Magnifying runner for slide. C. F. Dieckmann. No. 1,424,807; Aug. 8.
 Rules, Printing. A. W. Erickson. No. 1,405,570; Feb. 7.
 Runners, Compound for forming. A. C. Gressle. No. 1,408,587; Mar. 7.
 Running board. H. T. Thomas. No. 1,425,554; Aug. 15.
 Running-board saddle. A. R. Wilson. No. 1,433,322; Oct. 24.
 Rust-preventive composition. S. A. Bullock. No. 1,404,571; Jan. 24.
 Rust, Process of and composition for preventing. C. W. Porter. No. 1,433,226; Oct. 24.
 Rustproofing coating. J. Scanlan and H. Gardner. No. 1,436,729; Nov. 28.
 Rust remover. G. L. Williams. No. 1,439,780; Dec. 26.
 S hook. A. Stachofski. No. 1,434,924; Nov. 7.
 Saccharine solutions, Filtering apparatus for use with. R. Vachier. No. 1,438,797; Dec. 12.
 Saccharine trap. G. Engel, Sr. No. 1,415,818; May 9.
 Sack-closing device. T. J. Gorman. No. 1,412,934; Apr. 18.
 Sack, Cotton-picker's. L. E. Nettles. No. 1,424,670; Aug. 1.
 Sack, Cotton-picker's. J. W. Watkins. No. 1,402,697; Jan. 3.
 Sack, Flour. R. G. Brisbane. No. 1,403,287; Jan. 10.
 Sack holder. F. H. Gilbert. No. 1,402,227; Jan. 3.
 Sacks, Machine for closing and tying. F. O. Lindgren. No. 1,437,598; Dec. 5.
 Sacks, Protective runner for cotton-pickers. C. E. Shipp. No. 1,435,880; Nov. 14.
 Saddle, Cycle, motor-cycle, and analogous. B. Brooks. No. 1,416,942; May 23.
 Saddle, Cycle, motor-cycle, and analogous. A. H. Lawrence. No. 1,427,484; Aug. 29.
 Saddler's chest. L. B. Craig. No. 1,421,916; July 4.
 Saddles, Spring support for cycle. P. W. Dodd. No. 1,403,749; Jan. 17.
 Sadiron. L. Hoffman. No. 1,428,959; Sept. 12.
 Sadiron. E. R. Pollard. No. 1,431,419; Oct. 10.
 Sadiron, Electric. L. R. Hamlin and J. Jackson. No. 1,436,035; Nov. 21.
 Sadiron, Electric. J. A. Howard, sr. No. 1,428,233; Sept. 5.
 Sadiron, Electrically-heated. J. F. Lamb. No. 1,437,111; Nov. 28.
 Sadiron holder. S. H. Gibson. No. 1,424,759; Aug. 8.
 Sadiron light. C. L. Malloy. No. 1,421,973; July 4.
 Sadiron, Thermostatically-controlled. J. A. Amelianovich. No. 1,435,096; Nov. 7.
 Sadirons, Gas heater for. O. H. Frank. No. 1,424,460; Aug. 1.
 Sadirons, Heating unit for. A. E. Reimers. No. 1,439,121; Dec. 19.
 Safe. G. T. Herrick. No. 1,402,066; Jan. 3.
 Safe. P. S. Millice. Nos. 1,404,043-4; Jan. 17.
 Safe. M. Nanni. No. 1,410,027; Mar. 21.
 Safe and vault. M. J. Kerley. No. 1,427,688; Aug. 29.
 Safe-deposit construction. J. Freyberg and L. F. Wubbolding. No. 1,421,770; July 4.
 Safe-deposit lock. W. P. Mosely. No. 1,432,720; Oct. 17.
 Safe, Money. H. S. Royse. No. 1,434,226; Oct. 31.
 Safe or cover, Collapsible meat. W. H. M. Berthon. No. 1,437,219; Nov. 28.
 Safe-protecting device. W. C. Beckwith. No. 1,408,495; Mar. 7.
 Safe, Traveler's. L. P. Mercer. No. 1,412,253; Apr. 11.
 Safe, Wall. J. J. and J. Rauwald. No. 1,404,480; Jan. 24.
 Safes, Attachment for. A. M. Ullman. No. 1,405,641; Feb. 7.
 Safes, Machine for manufacturing. C. Fisher. No. 1,424,289; Aug. 1.
 Safes or other enclosures, Device for protecting. G. W. Tiffany. No. 1,422,903; July 18.
 Safes, Protective casing for. R. Homolle. No. 1,410,808; Mar. 28.
 Safety apparatus. A. Duran. No. 1,406,625; Feb. 14.
 Safety appliance. R. E. Langmack. No. 1,418,720; June 6.
 Safety appliance. L. G. Swenington. No. 1,421,039; June 27.
 Safety and match box. I. Horwath. No. 1,416,559; May 16.
 Safety brake, Automatic. A. Kimble. No. 1,433,553; Oct. 31.
 Safety box. J. Bulgach. No. 1,402,209; Jan. 3.
 Safety clasp. H. V. Basley. No. 1,415,509; May 9.
 Safety crank catch. F. W. Goedeke. No. 1,429,030; Sept. 12.
 Safety-deposit-box system. H. Marshall. No. 1,437,001; Nov. 28.
 Safety device. W. J. Martin. No. 1,428,966; Sept. 12.
 Safety device. S. Shold. No. 1,430,410; Sept. 26.
 Safety device for doors. A. L. Cresci. No. 1,417,301; May 23.
 Safety device for stripped threads, Gear-like. D. C. Klausmeyer. No. 1,419,058; June 6.
 Safety fender. J. J. Brignole and J. Lovari. No. 1,432,380; Oct. 17.
 Safety hook. L. Loop. No. 1,416,961; May 23.
 Safety light. W. W. Rumsey. No. 1,425,139; Aug. 8.
 Safety lock. S. Keri. No. 1,434,709; Nov. 7.
 Safety lock. C. Pike. No. 1,437,992; Dec. 5.
 Safety lock. M. Wright and H. Becker. No. 1,438,420; Dec. 12.
 Safety lock device, Automatic. O. H. Paschke. No. 1,419,469; June 13.
 Safety panel box. H. F. Krantz. No. 1,428,849; Sept. 12.
 Safety panel box. H. F. Krantz. No. 1,420,111; June 20.
 Safety pin. S. E. Bentley. No. 1,420,952; June 27.
 Safety pin. R. F. Campbell. No. 1,409,667; Mar. 14.
 Safety pin. J. C. Doran. No. 1,413,396; Apr. 18.
 Safety pin. E. Ehlich. No. 1,433,678; Oct. 31.
 Safety pin. G. Letmolee. No. 1,417,080; May 23.
 Safety pin. V. Puc. No. 1,415,473; May 9.
 Safety pin. V. Puc. Nos. 1,415,475-6; May 9.
 Safety pin. C. L. Strauss. No. 1,402,109; Jan. 3.
 Safety-pin card or package. J. Waldes. No. 1,417,589; May 30.
 Safety pin, Coil. S. B. Parker. No. 1,413,423; Apr. 18.
 Safety receptacle. L. B. Groeschel. No. 1,432,688; Oct. 17.
 Safety screen. J. L. Bernard. No. 1,422,409; July 11.
 Safety signal. C. H. Gore. No. 1,411,780; Apr. 4.
 Safety signal device, Automatic. P. J. Murphy. No. 1,402,640; Jan. 3.
 Safety switch. A. L. Freret. No. 1,409,843; Mar. 14.
 Safety switch. F. T. Kovar and J. F. Jirka. No. 1,430,087; Sept. 26.
 Safety switch. F. O. Winklehaus. No. 1,417,650; May 30.
 Safety switch, Double-throw. L. Kellner. No. 1,402,297; Jan. 3.
 Safety tractor coupling. R. E. Birdsong. No. 1,413,252; Apr. 18.
 Sailboat. C. Moraitis. No. 1,429,156; Sept. 12.
 Sal-ammoniac skimmings, Treatment of. W. Schopper. No. 1,403,060; Jan. 10.
 Sales apparatus, Automatic. E. H. Helt. No. 1,428,589; Sept. 12.
 Sales book, Manifolding. E. K. Bottle. No. 1,405,748; Feb. 7.
 Sales cabinet for package goods. R. W. Gearhart. No. 1,432,284; Oct. 17.
 Sales cabinet, Selective. R. W. Gearhart. No. 1,432,285; Oct. 17.
 Sales, Chart for recording competitive. M. Case. No. 1,439,867; Dec. 26.
 Sales outfit, Securities. J. Q. Newton. No. 1,417,854; May 30.
 Sales package. E. F. Hallock. No. 1,409,544; Mar. 14.
 Salicyl aldehyde, Producing. C. C. Loomis. No. 1,427,400; Aug. 29.
 Salt and pepper shaker. W. G. Marr. No. 1,437,345; Nov. 28.
 Saltcellar. J. E. Scott. No. 1,424,040; July 25.
 Salt cleaner, Meat-. D. W. McKenna. No. 1,438,540; Dec. 12.
 Salt mixtures, Treating. F. W. Huber. No. 1,435,524; Nov. 14.
 Salt shaker, Valved bottom-dispensing. A. M. Pasnik. Mar. 14.
 Salts, Separating mixtures of. H. P. Bassett. No. 1,436,228; Nov. 21.
 Saltpeter manufacture. T. C. Meadows, M. Hauber, jr., and H. W. Charlton. No. 1,433,290; Oct. 24.
 Salvage apparatus. C. W. Eveleth. No. 1,409,690; No. 1,439,259; Dec. 19.
 Salvage apparatus, Deep-sea. A. E. Lemon. No. 1,415,661; May 9.
 Salvaging apparatus. J. M. Adams. No. 1,412,202; Apr. 11.
 Salve. S. O. O'Dell. No. 1,426,002; Aug. 15.
 Sample taker. B. Brayshaw. No. 1,429,710; Sept. 19.
 Sampler, Automatic. S. E. Cogswell. No. 1,414,805; May 2.
 Sampling apparatus. R. L. Bruner. No. 1,418,065; May 30.
 Sampling apparatus. R. K. Warner. No. 1,423,890; July 25.
 Samples, Folder for cloth. R. A. Howard. No. 1,419,053; June 6.
 Sand and gravel loader. J. M. Shamp. No. 1,429,372; Sept. 19.

- Sand and gravel screen. H. S. Earle. No. 1,418,545; June 6.
- Sand and gravel screen, Combined. O. C. Crandall. No. 1,424,451; Aug. 1.
- Sand and gravel spreader. A. Fricker. No. 1,430,975; Oct. 3.
- Sand-blast apparatus. O. A. Forsberg. No. 1,419,130; June 13.
- Sand-blast apparatus. J. E. Green. No. 1,427,206; Aug. 29.
- Sand-blast apparatus. H. F. Liedtke. No. 1,423,128; July 18.
- Sand-blast apparatus. R. Ruemelin. No. 1,415,403; May 9.
- Sand-blast machine. R. G. Coburn. No. 1,424,713; Aug. 1.
- Sand-blast machine. E. E. Rothchild. No. 1,433,302; Oct. 24.
- Sand-box attachment. A. Humphrey. No. 1,431,307; Oct. 10.
- Sand carried in water courses, Device for separating. J. Büchi. No. 1,431,367; Oct. 10.
- Sand-cleaning machine. W. A. Goodwin. No. 1,425,763; Aug. 15.
- Sand-cutting machine. H. L. Wadsworth. No. 1,432,812; Oct. 24.
- Sand, Device for draining water from. J. W. Stiefel. No. 1,408,653; Mar. 7.
- Sand-distributing apparatus. T. L. Swearingen. No. 1,403,878; Jan. 17.
- Sand-drying device. F. X. Heindl. No. 1,424,904; Aug. 8.
- Sand feeder. K. S. Howard. No. 1,423,854; July 25.
- Sand from the bottoms of bodies of water, Means for extracting. J. S. Alspaugh. No. 1,402,334; Jan. 3.
- Sand gate. D. C. Mulvihill. No. 1,409,398; Mar. 14.
- Sand gathering and elevating machine. E. O. Beardsley and W. F. Piper. No. 1,421,383; July 4.
- Sand into molds, Method of and apparatus for ramming. W. S. Sutton. No. 1,426,615; Aug. 22.
- Sand-mixing apparatus. H. L. Wadsworth. No. 1,430,704; Oct. 3.
- Sand mold and apparatus for making it. A. Christianson. No. 1,428,359; Sept. 5.
- Sand-molding apparatus. E. L. Towle. No. 1,407,902; Feb. 28.
- Sandpapering machine. C. G. Norman. No. 1,406,275; Feb. 14.
- Sand-pipe heater. C. B. Johns. No. 1,423,429; July 18.
- Sand-reel drive. H. J. Lockhart. No. 1,402,237; Jan. 3.
- Sand-separating tank. W. E. McGee. No. 1,404,873; Jan. 31.
- Sand-settling box. E. E. Berry. No. 1,407,919; Feb. 28.
- Sand washer and separator. E. D. Merwin. No. 1,410,340; Mar. 21.
- Sand-washing device. E. Shaw. No. 1,406,291; Feb. 14.
- Sanding, abrading, and polishing machine, Portable. M. N. Prange. No. 1,421,303; June 27.
- Sanding device. C. Spencer. No. 1,428,814; Sept. 12.
- Sanding device, Heel-break-shank. G. R. Ellis. No. 1,406,357; Feb. 14.
- Sanding machine. V. Avolio and F. Lattanzi. No. 1,417,293; May 23.
- Sanding machine. J. Galbraith. No. 1,430,870; Sept. 26.
- Sanding machine. R. E. Gruenhagen. No. 1,437,414; Dec. 5.
- Sanding machine. L. Miller. No. 1,420,438; June 20.
- Sandal. G. Codish. No. 1,436,479; Nov. 21.
- Sandal, Antislipping. B. Noblette. No. 1,408,388; Feb. 28.
- Sandal, Cannery. L. C. Lombard. No. 1,435,538; Nov. 14.
- Sandal or slipper. W. S. H. Doody. No. 1,407,992; Feb. 28.
- Sanitary apparatus, Cover for the seats of. E. L. Eckstein. No. 1,429,724; Sept. 19.
- Sanitary bowl. J. F. Kelly. No. 1,435,644; Nov. 14.
- Sanitary case. S. A. Kornsweet. No. 1,429,082; Sept. 12.
- Sanitary closet. E. J. Owen. No. 1,421,297; June 27.
- Sanitary closet. B. B. Shollenberger. No. 1,415,719; May 9.
- Sanitary closet, Self-contained. I. N. Russell and G. W. Grayson. No. 1,419,587; June 13.
- Sanitary container. G. Korittke. No. 1,423,336; July 18.
- Sanitary fixture. L. T. Audi. No. 1,405,476; Feb. 7.
- Sanitary milk-bottle cover. T. W. Anderson. No. 1,409,812; Mar. 14.
- Sanitary napkins, Machine for making. H. W. Green. No. 1,408,586; Mar. 7.
- Sanitary privy and septic tank, Combined. C. R. Humphreys. No. 1,404,123; Jan. 17.
- Sanitary trap. N. C. Leonard. No. 1,418,941; June 6.
- Sardine beheading and entrails-removing apparatus. F. Heath. No. 1,402,421; Jan. 3.
- Sardine-turning apparatus. F. Heath. No. 1,430,011; Sept. 26.
- Sardines, Minced. J. Tweeddale and F. B. McCrosky. No. 1,406,590; Feb. 14.
- Sash. H. R. Moyer. No. 1,425,535; Aug. 15.
- Sash-adjuster and fastener, Automatic storm. N. E. Linstrom. No. 1,411,216; Mar. 28.
- Sash adjusters, Operating means for. L. Roth. No. 1,408,908; Mar. 7.
- Sash and casement, and lock therefor, Interlocking swinging. G. W. Lancaster. No. 1,416,097; May 16.
- Sash and screen fastener, Storm. J. B. Maynard. No. 1,414,966; May 2.
- Sash attachment, Window-. W. E. Peters. No. 1,406,411; Feb. 14.
- Sash balance. W. E. Wread. No. 1,430,138; Sept. 26.
- Sash balance and weather strip. R. B. Marschke. No. 1,411,445; Apr. 4.
- Sash construction, Bottom-hung-. H. E. White. Nos. 1,433,441-2; Oct. 24.
- Sash construction, Metal. G. H. Forsyth. No. 1,405,829; Feb. 7.
- Sash-cord coupling. J. A. Ryan. No. 1,425,547; Aug. 15.
- Sash fastener. H. S. Dunbar. No. 1,419,128; June 13.
- Sash fastener. J. O'Connor. No. 1,428,447; Sept. 5.
- Sash fastener. W. F. Wollesen. No. 1,412,154; Apr. 11.
- Sash fastener, Storm-. W. Mandel. No. 1,421,798; July 4.
- Sash fastener, Storm-. R. B. Monk. No. 1,412,191; Apr. 11.
- Sash fastener, Window-. W. A. Snyder. No. 1,414,595; May 2.
- Sash fastener, Window-. E. H. Walters. No. 1,428,725; Sept. 12.
- Sash frame. F. Hauser. No. 1,420,099; June 20.
- Sash frame. F. A. Malec. No. 1,432,565; Oct. 17.
- Sash frames, Ventilator for metallic. F. Hauser. No. 1,420,100; June 20.
- Sash holder. J. J. Pruett. No. 1,439,260; Dec. 19.
- Sash holder. J. H. Ramberg. No. 1,409,573; Mar. 14.
- Sash holder and lock. J. A. Tedder. No. 1,432,577; Oct. 17.
- Sash holder, Automatic. W. B. Hubbard. No. 1,439,418; Dec. 19.
- Sash holder, Window-. N. J. Bishop. No. 1,433,930; Oct. 31.
- Sash holder, Window. H. L. Scholl. No. 1,423,034; July 18.
- Sash holding and locking device. A. Rancour. No. 1,433,415; Oct. 24.
- Sash holding device and lock, Window-. C. B. Johnson. No. 1,434,545; Nov. 7.
- Sash-latching device. Window-. H. R. Ritchie. No. 1,429,256; Sept. 19.
- Sash lifter. W. Karasiewicz. No. 1,414,698; May 2.
- Sash lifter, Automatic storm-. A. Chisholm. No. 1,440,277; Dec. 26.
- Sash lock. J. A. Brown. No. 1,403,144; Jan. 10.
- Sash lock. G. W. Deeds. No. 1,418,290; June 6.
- Sash lock. E. Gusy. No. 1,424,900; Aug. 8.
- Sash lock. R. Gristy. No. 1,436,654; Nov. 28.
- Sash lock. A. J. Hanke. No. 1,424,762; Aug. 8.
- Sash lock. W. A. Laufer and A. Kufia. No. 1,429,891; Sept. 19.
- Sash lock. R. F. Morrison. No. 1,412,062; Apr. 11.
- Sash lock. G. Round. No. 1,439,642; Dec. 19.
- Sash lock, Ventilating-. W. Goit. No. 1,438,995; Dec. 19.
- Sash lock, Window-. J. W. Loy. No. 1,434,495; Nov. 7.
- Sash locking and balancing mechanism. A. C. Wheelock. No. 1,422,399; July 11.
- Sash-locking device. J. Zak. No. 1,422,020; July 4.
- Sash-operating mechanism. C. P. Chamberlin. No. 1,434,874; Nov. 7.
- Sash-operating mechanism. J. A. Peterman. No. 1,418,732; June 6.
- Sash-raising mechanism, Automatic. A. D. and E. J. Rawlings. No. 1,426,104; Aug. 15.
- Sash supporter. A. W. Nelson. No. 1,437,672; Dec. 5.
- Sash weight. B. F. Aufderheide, sr. No. 1,425,570; Aug. 15.
- Sash weight. A. H. Bailey. No. 1,406,917; Feb. 14.
- Sash weight. W. S. Sanborn. No. 1,424,598; Aug. 1.
- Sashes, Automatic interlocking attachment for window. H. C. Frost. No. 1,439,585; Dec. 19.
- Saturating apparatus. J. V. Cunha. No. 1,435,810; Nov. 14.
- Saucer. D. F. Loudon. No. 1,428,487; Sept. 5.
- Saucepan. H. G. G. Desmarest. No. 1,425,371; Aug. 8.
- Saucepans and other vessels, Handle for. A. Collard. No. 1,403,232; Jan. 10.
- Sausage linking and hanging machine. O. C. L. Hirsch. No. 1,431,227; Oct. 10.
- Sausage-linking machine. L. Reisfeld. No. 1,419,985; June 20.
- Sausage-linking machine. C. J. Will. No. 1,419,529; June 13.
- Saw. O. Arntz. No. 1,434,421; Nov. 7.
- Saw. W. G. Baker. No. 1,411,899; Apr. 4.
- Saw. A. W. Chiddix. No. 1,419,819; June 13.
- Saw. O. D. Eshelman and W. F. Boast. No. 1,423,843; July 25.
- Saw. F. A. Henny and C. E. Hendricks. No. 1,403,411; Jan. 10.
- Saw. H. B. Kimmel. No. 1,412,618; Apr. 11.
- Saw. J. G. Mattson. No. 1,421,520; July 4.
- Saw. E. McKenney. No. 1,402,427; Jan. 3.
- Saw. F. F. Peters. No. 1,412,315; Apr. 11.
- Saw. E. Tjenall. No. 1,429,549; Sept. 19.
- Saw, Adjustable twin. C. Rudich. No. 1,426,676; Aug. 22.
- Saw-blade holder. T. Howard. No. 1,410,310; Mar. 21.
- Saw bow. A. O. G. Stenmark and E. A. Hedberg. No. 1,411,590; Apr. 4.
- Sawbuck. M. Grau. No. 1,432,998; Oct. 24.
- Saw clamp. J. Ruppert. No. 1,410,512; Mar. 21.

Alphabetical list of inventions—Continued.

- Saw, Cut-off. E. Pierce. No. 1,430,681; Oct. 3.
 Saw, Dado. F. E. White. No. 1,421,052; June 27.
 Sawdust-conveying attachment. P. F. Gurgel. (Reissue.) No. 15,262; Jan. 10.
 Saw dressing and gauging tool. J. C. Hilburn. No. 1,420,547; June 20.
 Saw, Electrically-operated. B. D. Viers. No. 1,425,152; Aug. 8.
 Saw for cutting metals. P. V. Vernon. No. 1,423,504; July 18.
 Saw, Frame. G. Müller. No. 1,421,533; July 4.
 Saw frame, Hack-. T. Claffey. No. 1,427,068; Aug. 22.
 Saw frame, Hack. W. Donaldson. No. 1,429,195; Sept. 12.
 Saw-filing device. S. Hausler. No. 1,409,442; Mar. 14.
 Saw-filing gauge. T. V. Baker. No. 1,431,087; Oct. 3.
 Saw-filing machine. M. Forlander. No. 1,434,654; Nov. 7.
 Saw-filing machine. J. E. Meed. No. 1,425,602; Aug. 15.
 Saw-filing machine. W. S. Pritchard. No. 1,417,687; May 30.
 Saw-filing machine. L. S. Sherwood. No. 1,422,486; July 11.
 Saw-filing machine. O. J. Westerdahl. No. 1,406,512; Feb. 14.
 Saw gauge. E. W. Doyle. No. 1,437,586; Dec. 5.
 Saw guard. J. D. McMichael. No. 1,427,005; Aug. 22.
 Saw guard. A. C. Prabst and N. E. Holte. No. 1,414,581; May 2.
 Saw guard. O. B. Smith. No. 1,428,986; Sept. 12.
 Saw guard. J. Zluticky. No. 1,402,915; Jan. 10.
 Saw guide. G. W. Cary. No. 1,417,973; May 30.
 Saw guide. A. Sipple. No. 1,430,762; Oct. 3.
 Saw guide, Adjustable band-. E. G. Livendahl, sr. No. 1,432,564; Oct. 17.
 Saw guide, Band-. S. L. Berry. No. 1,438,155; Dec. 5.
 Saw guide, Band-. J. D. Wallace. No. 1,435,997; Nov. 21.
 Saw gummer. R. F. Barry. No. 1,419,103; June 6.
 Saw, Hack. D. E. Arnold. No. 1,432,586; Oct. 17.
 Saw, Hack. J. B. Nesmeyer. No. 1,413,182; Apr. 18.
 Saw, Hack. A. M. Remington. No. 1,424,378; Aug. 1.
 Saw, Hack. J. Siddon. No. 1,406,422; Feb. 14.
 Saw handle. R. W. Scott. No. 1,420,291; June 20.
 Saw handle. D. R. Smith. No. 1,405,344; Jan. 31.
 Saw handle. B. R. Watson. No. 1,414,608; May 2.
 Saw handle and blade connection. C. Larson. No. 1,405,925; Feb. 7.
 Saw handle, Crosscut-. J. F. Williams. No. 1,422,015; July 4.
 Saw holder, Hack-. F. Hickenlooper. No. 1,420,484; June 20.
 Saw, Inserted-tooth. F. P. Petzold. No. 1,434,629; Nov. 7.
 Saw, Lumberjack. H. A. Knowles. No. 1,415,247; May 9.
 Saw machine, Drop-. C. F. Freay. No. 1,436,758; Nov. 28.
 Saw machine, Portable reciprocating. A. Bills. No. 1,428,208; Sept. 5.
 Sawmill attachment. J. S. Junkin. No. 1,414,740; May 2.
 Sawmill carriage. H. C. Hille. No. 1,437,846; Dec. 5.
 Sawmill carriage. M. E. Brady. No. 1,420,961; June 27.
 Sawmill dog. A. L. Haase. No. 1,415,172; May 9.
 Sawmill feed. G. S. Sergeant. No. 1,432,361; Oct. 11.
 Sawmill hog. C. B. Sprague. No. 1,436,208; Nov. 21.
 Sawmill networks. H. F. Biedermann. No. 1,412,797; Apr. 11.
 Saw, Portable jig. S. H. Hawley. No. 1,418,644; June 6.
 Saw, Portable power. J. H. Diers and O. Arneson. No. 1,419,028; June 6.
 Saw, Portable power. F. Dynicki. No. 1,414,265; Apr. 25.
 Saw, Power-driven. H. Holmes. No. 1,411,967; Apr. 4.
 Saw, Power hack. R. D. Clemson. No. 1,437,494; Dec. 5.
 Saw, Pruning. A. Slothower. No. 1,423,506; July 18.
 Saw-relieving device. M. H. McCormick. No. 1,409,875; Mar. 14.
 Saw, Self-oiling. J. P. Doman. No. 1,409,684; Mar. 14.
 Saw set. D. G. Creager. No. 1,402,921; Jan. 10.
 Saw set. O. E. Floberg. No. 1,404,384; Jan. 24.
 Saw set. A. Gustafson. No. 1,436,498; Nov. 21.
 Saw set. H. Kuehn. No. 1,425,389; Aug. 8.
 Saw set. A. Manhart. No. 1,420,489; June 20.
 Saw set. P. Morin. No. 1,416,374; May 16.
 Saw set. F. Odell. No. 1,440,098; Dec. 26.
 Saw set. J. Reif. No. 1,403,634; Jan. 17.
 Saw setter. A. Casebeer. No. 1,439,144; Dec. 19.
 Saw-setting device. S. S. Borusiewski. No. 1,437,289; Nov. 28.
 Saw support and guide. D. W. Solomon. No. 1,428,268; Sept. 5.
 Saw support, Undercutting-. R. Larson. No. 1,424,415; Aug. 1.
 Saw, Surgical. M. Langworthy. No. 1,417,669; May 30.
 Saw tables, Dado and miter attachment for. F. V. Phillips. No. 1,429,097; Sept. 12.
 Saw tables, Work holder for. J. W. Steele. Nos. 1,410,134-5; Mar. 21.
 Saw track, Portable. J. F. Fritz. No. 1,438,703; Dec. 12.
 Saw, Tree-felling. A. Ziauskis. No. 1,414,319; Apr. 25.
 Saw, Wood. W. Shepherdson. No. 1,423,159; July 18.
 Sawing and trimming machine. W. S. Runnels. No. 1,408,831; Mar. 7.
 Sawing machine. H. K. B. Davis, jr. No. 1,439,801; Dec. 26.
 Sawing machine. I. Roberts. No. 1,438,786; Dec. 12.
 Sawing machine. O. Tardif. No. 1,431,434; Oct. 10.
 Sawing machine. F. J. Scott. No. 1,424,039; July 25.
 Sawing machine. L. H. Thullen. No. 1,405,697; Feb. 7.
 Sawing-machine guard. W. Granberg. No. 1,430,983; Oct. 3.
 Sawing machine, Wood-. J. E. Elder. No. 1,420,950; June 27.
 Sawing machines, Separating device for. J. A. Neal. No. 1,435,252; Nov. 14.
 Sawing mechanism, Portable. A. O. M. Löfgren. (Reissue.) No. 15,294; Feb. 28.
 Sawing natural deposits, Apparatus for. E. B. Starr and H. E. Marsh. No. 1,422,386; July 11.
 Saws, Attachment for band. G. H. Wallace. No. 1,426,932; Aug. 22.
 Saws, Depth-cutting gauge attachment for. J. Poleski and J. Jurcak. No. 1,436,905; Nov. 28.
 Saws, Guard for circular. G. E. H. Spiller. No. 1,422,316; July 11.
 Saws, Guard for cut-off. J. M. Leaver, Jr. No. 1,411,045; Mar. 28.
 Saws, Machine for filing. J. Lips. No. 1,409,384; Mar. 14.
 Saws, Protector for circular. J. M. Lindemon. No. 1,409,741; Mar. 14.
 Saws, Wheel-support attachment for drag. E. G. Krebs. No. 1,428,506; Sept. 5.
 Saws when grinding on rotary stones, Apparatus for directing circular. J. E. C. de Wijs. No. 1,436,485; Nov. 21.
 Saws with heat, Method and apparatus for treating. A. J. Harry. No. 1,429,138; Sept. 12.
 Saxophone. F. Anstett. No. 1,440,124; Dec. 26.
 Scaffold. M. Herman. No. 1,404,394; Jan. 24.
 Scaffold bench and anchor, Combined. F. B. Johnston. No. 1,437,593; Dec. 5.
 Scaffold carrier. A. E. Camp. No. 1,423,998; July 25.
 Scaffold hanger. J. C. Fleming. No. 1,427,453; Aug. 29.
 Scaffold machine. P. Hoitsma. No. 1,416,296; May 16.
 Scaffold, Swinging. G. Baker. No. 1,436,977; Nov. 28.
 Scaffold trestle. P. Collier. No. 1,439,068; Dec. 19.
 Scaffold, Window. J. Schabhuettl. No. 1,430,687; Oct. 3.
 Scaffolding or the like temporary erections, Clamping device for. D. Palmer-Jones. No. 1,437,266; Nov. 28.
 Scaffolding, Safety device for. C. A. Lundgren. No. 1,412,624; Apr. 11.
 Scaffolds and the like, Device for. J. J. O'Hare. No. 1,437,858; Dec. 5.
 Scale. F. A. Burkhard. No. 1,408,264; Feb. 28.
 Scale. J. E. Burton. No. 1,407,634; Feb. 21.
 Scale. J. Frame. No. 1,425,466; Aug. 8.
 Scale. C. H. Hapgood. Nos. 1,402,763-4; Jan. 10.
 Scale. C. H. Hapgood. No. 1,439,470; Dec. 19.
 Scale. R. A. Hemingway. No. 1,402,606; Jan. 3.
 Scale. C. R. Herman. No. 1,411,495; Apr. 4.
 Scale. B. W. King. No. 1,416,719; May 23.
 Scale. H. F. Kinser. No. 1,422,104; July 11.
 Scale. S. Mihara. No. 1,436,600; Nov. 21.
 Scale. H. D. Ridge. No. 1,427,760; Aug. 29.
 Scale. J. E. Seederer. No. 1,408,038; Feb. 28.
 Scale. W. S. Smith. No. 1,405,634; Feb. 7.
 Scale. W. S. Smith. No. 1,410,614; Mar. 28.
 Scale. G. G. and E. L. Voland. No. 1,433,436; Oct. 24.
 Scale. G. Wenzelmann. No. 1,419,336; June 13.
 Scale and dirt collector. F. M. Gebhard. No. 1,424,197; Aug. 1.
 Scale attachment, Weighing-. K. G. Fisher. No. 1,425,465; Aug. 8.
 Scale, Automatic. H. Cameron. No. 1,422,664; July 11.
 Scale, Automatic. A. S. McKee. No. 1,434,553; Nov. 7.
 Scale, Automatic weighing. A. S. Gilbert. No. 1,405,203; Jan. 31.
 Scale, Automatic weighing. H. R. Standefer. No. 1,425,911; Aug. 15.
 Scale-balancing device. H. B. Bagg. No. 1,411,600; Apr. 4.
 Scale-beam construction. E. A. M. Bandoly. No. 1,415,508; May 9.
 Scale-beam poise. J. J. Magrady. No. 1,428,551; Sept. 12.
 Scale beams, Automatic latch for. J. J. Magrady. No. 1,423,772; July 25.
 Scale, Computing. A. H. Heitzman. No. 1,426,477; Aug. 22.
 Scale, Computing. W. F. Stimpson. No. 1,403,208; Jan. 10.
 Scale, Direct-reading proportional calculating. G. A. Lofland. No. 1,404,450; Jan. 24.
 Scale, Electrical. W. A. Petersen. No. 1,405,322; Jan. 31.
 Scale, Pendulum. S. Wistoft. No. 1,414,764; May 2.
 Scale, Spring. C. H. Hapgood. No. 1,424,354; Aug. 1.
 Scale, Spring. H. O. Hem. No. 1,404,765; Jan. 31.
 Scale, Spring. T. F. Hickey. No. 1,436,344; Nov. 21.
 Scale trap. W. Wishart and A. H. Morrell. No. 1,402,821; Jan. 10.
 Scale, Weighing. C. H. Hapgood. No. 1,411,211; Mar. 28.
 Scale, Weighing. H. O. Hem. No. 1,404,766; Jan. 31.
 Scale, Weighing. H. O. Hem. No. 1,411,213; Mar. 28.
 Scale, Weighing. H. O. Hem. No. 1,423,660; July 25.
 Scale, Weighing. H. O. Hem. No. 1,437,517; Dec. 5.
 Scale, Weighing. E. C. Rowe and A. Mohr. No. 1,436,360; Nov. 21.
 Scale, Weighing. O. Schmidt. No. 1,419,766; June 13.
 Scale, Weighing. L. C. Wetzel. No. 1,429,662; Sept. 19.
 Scales. C. Hausmann. No. 1,428,165; Sept. 5.

- Scales, Attachment. E. A. La Dow. No. 1,402,774; Jan. 10.
- Scales, Automatic cut-off for. J. L. Morris. No. 1,437,260; Nov. 28.
- Scales, Automatic printing and recording mechanism for. H. Noble. No. 1,433,470; Oct. 24.
- Scales, Computing. B. W. King. No. 1,408,703; Mar. 7.
- Scales, Desk or platform for wagon. J. J. Magrady. No. 1,431,969; Oct. 17.
- Scales, Indicating attachment for computing. C. H. Hapgood. No. 1,402,762; Jan. 10.
- Scales, Indicating mechanism for. E. G. Thomas. No. 1,409,317; Mar. 14.
- Scales, Indicator for weighing. S. G. Crane. No. 1,407,987; Feb. 28.
- Scales, Pendulum ball for automatic. L. H. Kennedy. No. 1,417,833; May 30.
- Scales, Pivot mounting for weighing. E. B. Locke and J. P. Murray. No. 1,431,966; Oct. 17.
- Scales, Quick-weighing attachment for. M. Maurer. No. 1,429,362; Sept. 19.
- Scales, Rack-and-pinion device for. R. Craig. No. 1,411,270; Apr. 4.
- Scales, Thermostat for portable. L. A. Osgood. No. 1,421,825; July 4.
- Scales, Weather cover for track. J. W. Orrock. No. 1,426,003; Aug. 15.
- Scales, Weight indicator for. H. C. Schaper. No. 1,402,970; Jan. 10.
- Scales, Weight indicator for. H. C. Schaper. No. 1,423,885; July 25.
- Scaling device. O. N. Pedersen. No. 1,431,840; Oct. 10.
- Scaling instrument, Proportional. J. D. Carter. No. 1,422,925; July 18.
- Scarecrow. S. H. Chase. No. 1,428,216; Sept. 5.
- Scarfing machine. D. Eisinga. No. 1,413,712; Apr. 25.
- Scavenging port control. H. R. Setz. No. 1,407,586; Feb. 21.
- Scene, Dropping. D. Zabaratz. No. 1,404,919; Jan. 31.
- Scenery, Theatrical. S. S. Horn. No. 1,432,463; Oct. 17.
- Schedule, Adjustable. A. H. Davis. No. 1,434,774; Nov. 7.
- Schedule or the like, Contest. F. W. Feibl. No. 1,431,577; Oct. 10.
- Sciopticon apparatus. E. Fegraeus. No. 1,424,457; Aug. 1.
- Scissors. E. Levy. No. 1,423,127; July 18.
- Scissors. H. McCaw. No. 1,433,391; Oct. 24.
- Scissors. A. T. Smith. No. 1,409,978; Mar. 21.
- Scissors and shears. D. C. Wheeler. No. 1,433,767; Oct. 31.
- Scissors construction. T. Dedio. No. 1,436,948; Nov. 28.
- Scissors, Coupon. J. J. Conway and E. Koehler. No. 1,436,755; Nov. 28.
- Scissors-grinding machine. S. O. Heindl. No. 1,427,735; Aug. 29.
- Scissors, shears, tweezers, Making. W. F. Concannon. No. 1,407,127; Feb. 21.
- Scissors, Stitch clipper for. C. Francisco. No. 1,423,791; July 25.
- Scoop board. C. Woods. No. 1,421,336; June 27.
- Scoop boards, Supporting cleat for. J. W. Talbot. No. 1,410,137; Mar. 21.
- Scoop, Can. H. J. Hart. No. 1,410,568; Mar. 28.
- Scoring and trimming machine. C. C. Gamm. No. 1,422,095; July 11.
- Scoring machine. A. A. Adamson and W. F. Grupe. No. 1,433,106; Oct. 24.
- Scow, Dumping. H. T. Dunbar. No. 1,403,017; Jan. 10.
- Scow, Self-bailing. H. T. Dunbar. No. 1,424,452; Aug. 1.
- Scrap-metal press. E. Kardos. No. 1,409,726; Mar. 14.
- Scraper. H. Baum. No. 1,421,380; July 4.
- Scraper. H. Brunner. No. 1,411,907; Apr. 4.
- Scraper. J. M. Conley. No. 1,438,362; Dec. 12.
- Scraper. W. Deslits. No. 1,402,579; Jan. 3.
- Scraper. O. Fike. No. 1,420,919; June 27.
- Scraper. L. P. Green. No. 1,430,075; Sept. 26.
- Scraper. F. D. Hart. No. 1,412,940; Apr. 18.
- Scraper. C. L. Lawton. No. 1,417,183; May 23.
- Scraper. R. E. McCauley. No. 1,402,078; Jan. 3.
- Scraper. R. E. McCauley. No. 1,410,204; Mar. 21.
- Scraper. J. W. Nielsen, C. H. Hansen, and T. Christoffer- sen. No. 1,411,452; Apr. 4.
- Scraper. C. Orgaard. No. 1,404,474; Jan. 24.
- Scraper. J. Plenter. No. 1,411,980; Apr. 4.
- Scraper. R. W. Rhodes. No. 1,434,914; Nov. 7.
- Scraper. C. B. Roberts. No. 1,418,973; June 6.
- Scraper. N. P. Slate. No. 1,407,683; Feb. 21.
- Scraper. J. L. Spence, Jr. No. 1,432,798; Oct. 24.
- Scraper. W. B. Terry. No. 1,402,460; Jan. 3.
- Scraper, Bearing. A. Patigian. No. 1,415,048; May 9.
- Scraper, charger, and tamper, Combination. T. J. Avery. No. 1,421,358; July 4.
- Scraper, Double-disk. H. B. Bozard. No. 1,410,883; Mar. 28.
- Scraper, Earth. A. R. Miskin. No. 1,427,693; Aug. 29.
- Scraper, Earth. H. Ricks, Jr. No. 1,432,260; Oct. 17.
- Scraper, Floor. J. L. Hearing. No. 1,411,431; Apr. 4.
- Scraper for pots and pans. E. M. Hibbler. No. 1,434,744; Nov. 7.
- Scraper guard and sharpener. W. J. Werner. No. 1,412,728; Apr. 11.
- Scraper loader system. C. E. Davis. No. 1,408,080; Feb. 28.
- Scraper, Road. D. E. Burns. No. 1,429,125; Sept. 12.
- Scraper, Road. A. McCallum. No. 1,404,038; Jan. 17.
- Scraper, Road. F. R. Morton. No. 1,419,642; June 13.
- Scraper, Rotary. E. D. Harris, Jr. No. 1,432,855; Oct. 24.
- Scraper, Rotary. C. R. Olberg. No. 1,429,089; Sept. 12.
- Scrapers, Carriage for drag. C. I. Wright. No. 1,409,509; Mar. 14.
- Scrapers, Control attachment for. G. P. Haynes. No. 1,418,567; June 6.
- Scrapers, Loading and dumping lever for. R. Martin. No. 1,411,176; Mar. 28.
- Scrapers, Tractor hitch for. W. H. Potts. No. 1,403,627; Jan. 17.
- Scraping device. A. B. Helfrich. No. 1,409,949; Mar. 21.
- Scraping or leveling machine. F. R. Morton. No. 1,416,494; May 16.
- Scraping tool. X. D. Johnson. No. 1,402,166; Jan. 3.
- Scraping tool. J. A. Kimball. No. 1,418,189; May 30.
- Scraping tool. L. Novak. No. 1,412,888; Apr. 18.
- Screed holder. G. W. Brooks. No. 1,423,991; July 25.
- Screen: See—
- Adjustable screen. Oil-well screen.
 - Automobile splash screen. Picking screen.
 - Baby-carriage screen. Pulp screen.
 - Cinematographic screen. Revolving screen.
 - Diffracting screen. Rewritable screen.
 - Fire screen. Rolling window screen.
 - Fish screen. Safety screen.
 - Fly screen. Sand and gravel screen.
 - Fly-trapping window screen. Separator screen.
 - Glare screen. Water screen.
 - Headlight screen. Well screen.
 - Hospital screen. Window screen.
 - Light screen. Wire-stretching-tool screen.
- Screen. J. Bland. No. 1,411,834; Apr. 4.
- Screen. R. H. Hawley. No. 1,438,489; Dec. 12.
- Screen. E. K. Lincoln. No. 1,408,370; Feb. 28.
- Screen and other separator. G. H. Fraser. No. 1,434,435; Nov. 7.
- Screen and other separator. G. H. Fraser. No. 1,434,600; Nov. 7.
- Screen and storm sash, Combined. L. W. Fisher. No. 1,426,267; Aug. 15.
- Screen and storm-sash hanger. H. Dickinson. No. 1,412,460; Apr. 11.
- Screen frame. R. J. Burhen. No. 1,436,858; Nov. 28.
- Screen frame. F. Mushall. No. 1,427,620; Aug. 29.
- Screen hanger. J. A. Bailey. No. 1,437,036; Nov. 28.
- Screen hanger. H. C. Hipolito. No. 1,411,784; Apr. 4.
- Screen mixing device, Multiple. G. F. W. Rohnow. No. 1,404,652; Jan. 24.
- Screen or grizzly, Revolving. H. K. Burch. No. 1,420,685; June 27.
- Screen or separator. G. H. Fraser. No. 1,434,691; Nov. 7.
- Screening apparatus. W. S. Acken. No. 1,418,399; June 6.
- Screening apparatus. C. W. Bruce. No. 1,405,269; Jan. 31.
- Screening apparatus. M. P. Reynolds. No. 1,423,021; July 18.
- Screening apparatus, Liquid. G. B. Welser, Jr. No. 1,435,770; Nov. 14.
- Screening device. A. E. Fisk. No. 1,439,099; Dec. 26.
- Screening machine and vibrating hammer therefor. H. K. Najarian. No. 1,425,039; Aug. 8.
- Screens and forming same, Lock joint for centrifugal. E. Daniels. No. 1,428,010; Sept. 5.
- Screens, netting, and the like, Portable standard and canopy support for insect. L. D. Stockle. No. 1,409,609; Mar. 14.
- Screw cap. J. M. Abrams. No. 1,421,885; July 4.
- Screw casing. A. Brown. No. 1,434,806; Nov. 7.
- Screw-cutting head. E. Coenen. No. 1,406,540; Feb. 14.
- Screw-cutting machine. J. A. Becher. No. 1,420,013; June 20.
- Screw-cutting machine. J. Cornélis. No. 1,434,430; Nov. 7.
- Screw-cutting machines, Die head of. C. W. Harris. No. 1,417,601; May 30.
- Screw-cutting tap, Self-closing. E. R. Dahlström. No. 1,432,018; Oct. 17.
- Screw driver. A. Anderson. No. 1,440,123; Dec. 26.
- Screw driver. F. A. Anderson. No. 1,404,562; Jan. 24.
- Screw driver. C. A. Bates and E. Fults. No. 1,424,275; Aug. 1.
- Screw driver. B. L. Bentley. No. 1,412,550; Apr. 11.
- Screw driver. F. V. Borick. No. 1,422,411; July 11.
- Screw driver. F. Eisenhard. No. 1,438,227; Dec. 12.
- Screw driver. G. W. Faust. No. 1,411,242; Mar. 28.
- Screw driver. T. J. Fegley and W. S. Snyder. No. 1,415,822; May 9.
- Screw driver. T. J. Fegley and W. S. Snyder. No. 1,424,456; Aug. 1.
- Screw driver. C. M. Flodin. No. 1,429,861; Sept. 19.
- Screw driver. J. E. McCafferty. No. 1,423,722; July 25.
- Screw driver. W. L. McLean. No. 1,415,251; May 9.
- Screw driver. S. J. and P. J. Mistalske. No. 1,434,791; Nov. 7.
- Screw driver. A. E. Simmons. No. 1,405,723; Feb. 7.
- Screw driver. W. S. Thomson. No. 1,410,521; Mar. 21.
- Screw driver. R. H. White. No. 1,410,088; Mar. 21.

Alphabetical list of inventions—Continued.

- Screw driver. C. Trunick. No. 1,418,184; May 30.
 Screw-driver attachment. A. Hilton. No. 1,417,995; May 30.
 Screw-driver attachment. C. E. Swaney and R. H. Mulford. No. 1,433,427; Oct. 24.
 Screw-driver attachment. R. E. Whitmore. No. 1,438,469; Dec. 12.
 Screw-driver attachment. J. V. Work. No. 1,424,703; Aug. 1.
 Screw driver, Ratchet. A. L. and E. B. Troutman. No. 1,431,901; Oct. 10.
 Screw drivers, Ratchet attachment for. W. H. Puhl. No. 1,415,389; May 9.
 Screw drivers, Screw holder for. C. W. Cole. No. 1,433,341; Oct. 24.
 Screw drivers, Screw-holding attachment for. F. C. Wilson. No. 1,439,593; Dec. 19.
 Screw drivers, Screw-holding attachment to. A. Fox. No. 1,403,680; Jan. 17.
 Screw gauge. C. A. Ledell. No. 1,423,339; July 18.
 Screw gauges, Means for cutting. W. C. Pitter. No. 1,433,844; Oct. 31.
 Screw, Hand. S. Sylvester. No. 1,429,050; Sept. 12.
 Screw heads and nail heads, Self-luminous marker for. A. V. T. Day. No. 1,420,185; June 20.
 Screw-holding anchor. C. N. Ackerman. No. 1,416,433; May 16.
 Screw jack. F. De Benedetti. No. 1,419,544; June 13.
 Screw jack. J. C. Kopf. No. 1,413,229; Apr. 18.
 Screw jack. C. J. Moltz. No. 1,435,412; Nov. 14.
 Screw jack. H. J. Schmick. No. 1,437,364; Nov. 28.
 Screw jack. E. J. Van Fleet. No. 1,436,121; Nov. 21.
 Screw jack, Self-lowering. J. C. Kopf. No. 1,411,282; Apr. 4.
 Screw jacks, Housing for vertical. J. S. Townsend. No. 1,424,952; Aug. 8.
 Screw machines, Finishing tool for. F. C. Loomis and L. M. Waite. No. 1,412,431; Apr. 11.
 Screw-neck-forming machine. H. N. Halversen. No. 1,437,239; Nov. 28.
 Screw of variable pitch, Propelling or bearing. E. Perrin. No. 1,402,646; Jan. 3.
 Screw plug and making same. T. L. Ryerson. No. 1,419,588; June 13.
 Screw propeller. H. Leitner. No. 1,414,742; May 2.
 Screw propeller and the like. A. A. Holle. No. 1,423,113; July 18.
 Screw propeller, Reversible. E. Duerr. No. 1,431,382; Oct. 10.
 Screw punch. W. A. Whitney. No. 1,403,366; Jan. 10.
 Screw retainer. L. K. Stendahl. No. 1,409,606; Mar. 14.
 Screw, Set. B. F. Jacobs. No. 1,438,648; Dec. 12.
 Screw, Temper. J. Strobel. No. 1,417,698; May 30.
 Screw, Temper. G. E. Turney. No. 1,432,810; Oct. 24.
 Screw-threaded elements, Locking device for interengaging. H. Fairbank. No. 1,404,105; Jan. 17.
 Screw threads in work pieces, Tool for cutting. E. J. Janger. No. 1,408,205; Feb. 28.
 Screw threads, Milling. G. Richards, L. N. Burt, and J. E. Freeborn. No. 1,427,169; Aug. 29.
 Screw threads, Projection apparatus for gauging. A. C. Banfield. No. 1,421,057; June 27.
 Screws and other piecwork, Automatic machine for the manufacture of. E. Schreier and R. Jenny. No. 1,412,140; Apr. 11.
 Screws, nails, and the like, Holder for. A. J. Reid. No. 1,426,320; Aug. 15.
 Screws or like fastenings, Plug or socket for receiving. J. J. Rawlings. No. 1,438,855; Dec. 12.
 Scroll-forming machine. M. P. Perkins. No. 1,413,609; Apr. 25.
 Scrubber. W. G. Laird. No. 1,419,867; June 13.
 Scrubbing board, Floor-. C. P. Williams. No. 1,416,429; May 16.
 Scrubbing device. G. A. Blank. No. 1,408,253; Feb. 28.
 Scrubbing device. H. C. Pittinger. No. 1,421,302; June 27.
 Scrubbing machine, Floor-. W. Zehnder. No. 1,408,331; Feb. 28.
 Scrubbing machine, Rotary floor-. W. S. Finnell. No. 1,434,109; Oct. 31.
 Scutching machine. I. Etrich. No. 1,405,990; Feb. 7.
 Scutching machine for flax and other fibrous materials. G. Michot. No. 1,429,753; Sept. 19.
 Scuttle. W. Sixt. No. 1,431,700; Oct. 10.
 Seal. H. R. Rogers. No. 1,423,881; July 25.
 Seal and applying the same, Jar. B. F. Roehrig. No. 1,428,711; Sept. 12.
 Seal, Box-strap. S. Baruch. No. 1,424,976; Aug. 8.
 Seal, Container. R. Baer. No. 1,419,912; June 20.
 Seal for use in packing, etc. J. Collings. No. 1,410,998; Mar. 28.
 Seal, Hermetical. W. L. Van Keuren. No. 1,427,870; Sept. 5.
 Seal press. E. Dietze. No. 1,413,106; Apr. 18.
 Seal, Separable-fastener. B. P. Sloan. No. 1,410,081; Mar. 21.
 Sealing apparatus. I. Keesing, Jr. No. 1,416,836; May 23.
 Sealing, Apparatus for. A. H. Sanborn and J. C. Stanger. No. 1,413,996; Apr. 25.
 Sealing composition. E. L. Coddington. No. 1,429,407; Sept. 19.
 Sealing device. V. Puc. No. 1,421,714; July 4.
 Sealing device for rotary structures. D. P. Davies. No. 1,428,943; Sept. 12.
 Sealing machine. F. E. Richard and D. R. Robinson. No. 1,435,334; Nov. 14.
 Sealing machine. E. L. Walker. No. 1,410,279; Mar. 21.
 Sealing machine. E. L. Walker. No. 1,410,352; Mar. 21.
 Sealing machine, Automatic. H. E. Townsend. No. 1,402,809; Jan. 10.
 Sealing machine, Box-. E. Craig. No. 1,437,228; Nov. 28.
 Sealing machine, Box-. R. M. Garrett. No. 1,438,994; Dec. 19.
 Sealing machine, Carton-. J. L. Ferguson. No. 1,423,094.
 Sealing machine, Duplex. H. E. Townsend. No. 1,406,703; Feb. 14.
 Sealing machine, Envelope-. A. J. Keiser. No. 1,426,745; Aug. 22.
 Sealing means. W. M. Brooks. No. 1,416,683; May 23.
 Sealing or labeling machine. F. M. Peters and W. H. Hungerford. No. 1,429,095; Sept. 12.
 Sealing-ring-applying machine. H. V. Lough. No. 1,431,405; Oct. 10.
 Sealing vacuum jackets, Method of and apparatus for. J. L. Fate. No. 1,423,093; July 18.
 Seam. F. H. McCoy. No. 1,426,892; Aug. 22.
 Seam for sewed articles. A. H. De Voe. No. 1,423,479; July 18.
 Seam-setting tool. H. F. G. Schuske. No. 1,423,581; July 25.
 Seamer, Reinforced. F. S. Jones. No. 1,410,318; Mar. 21.
 Seaming machine, Double-. H. Hermani. No. 1,438,241; Dec. 12.
 Seaming machine, Double-. S. McCulloch. No. 1,424,499; Aug. 1.
 Seaming machines, Seaming head for double-. H. L. Guenther. No. 1,440,143; Dec. 26.
 Seaming mechanism. J. Peyser. No. 1,402,887; Jan. 10.
 Seaming mechanism. J. Peyser. No. 1,408,713; Mar. 7.
 Searchlight. H. G. Fitz Gerald. No. 1,406,548; Feb. 14.
 Searchlight. G. Kleefeld. No. 1,414,985; May 2.
 Searchlight apparatus. H. O. Fletcher. No. 1,418,553; June 6.
 Searchlight for motor vehicles, Electric. B. J. Grigsby. No. 1,433,504; Oct. 24.
 Searchlight, Military. E. A. Sperry. No. 1,412,757; Apr. 11.
 Searchlight-positioning means. M. L. Patterson. No. 1,418,325; June 6.
 Searchlight tower, Railway. E. D. Cummings. No. 1,409,834; Mar. 14.
 Searchlight, Trench. E. A. Sperry. No. 1,403,876; Jan. 17.
 Searchlight, Universally-mounted. E. A. Sperry. No. 1,439,028; Dec. 19.
 Searchlight window. F. A. Benford. No. 1,404,004; Jan. 17.
 Searchlights, Electric-arc mechanism for. L. C. Josephs, Jr. No. 1,423,497; July 18.
 Searchlights, Electric-arc mechanism for. L. C. Josephs, Jr. No. 1,430,907; Oct. 3.
 Searchlights, Glass front for. P. R. Bassett. No. 1,403,889; Jan. 17.
 Searchlights, Mechanism for operating. L. Greenberg. No. 1,428,689; Sept. 12.
 Searchlights, Thermostat for. A. P. Davis. No. 1,433,073; Oct. 24.
 Seat. *See—*
 Adjustable seat. Locomotive-engineer's seat.
 Adjustable barrow seat. Pivotal spring seat.
 Automobile seat. Portable child's toilet seat.
 Auxiliary seat. Portable closet seat.
 Auxiliary automobile seat. Portable supplemental toilet seat.
 Baby-carriage seat. Sanitary toilet seat.
 Boatswain's seat. Spring seat.
 Camper's seat. Theater seat.
 Car seat. Toilet seat.
 Chair seat. Valve seat.
 Closet seat. Vehicle seat.
 Convertible auto seat. Water-closet seat.
 Cushioned seat. Window seat.
 Damper seat.
 Folding seat.
 Seat. G. Grimsrud. No. 1,403,024; Jan. 10.
 Seat. R. M. Montgomery. No. 1,406,059; Feb. 7.
 Seat. H. S. Roberts. No. 1,415,711; May 9.
 Seat and bed, Combined. F. C. Williams. No. 1,429,390; Sept. 19.
 Seat and desk structure. G. M. Haney. No. 1,439,701; Dec. 26.
 Seat and table, Combined. A. W. Eichman. No. 1,429,939; Sept. 26.
 Seat construction. G. V. Barnes. No. 1,439,219; Dec. 19.
 Seat construction, Automatic folding. J. E. Erickson. No. 1,428,018; Sept. 5.
 Seat convertible into bed, Folding. R. Wedemann. No. 1,429,388; Sept. 19.
 Seat cover. J. F. Kutschmar. No. 1,418,940; June 6.
 Seat cover. E. P. Love. No. 1,404,451; Jan. 24.
 Seat cover. E. Reece. No. 1,436,459; Nov. 21.
 Seat cover. E. Wittcoff. No. 1,422,908; July 18.
 Seat, Damper. E. A. McSpadden. No. 1,407,210; Feb. 21.
 Seat for children, Convertible. E. A. Kratz. No. 1,428,039; Sept. 5.

- Seat post, Adjustable. W. L. Fodrea. No. 1,431,109; Oct. 3.
- Seat spring. C. F. Green. No. 1,415,837; May 9.
- Seat spring. P. J. Steinbach. No. 1,410,039; Mar. 21.
- Seat support. R. O. Hendrickson. No. 1,433,720; Oct. 31.
- Seating appliance. F. G. Parker. No. 1,429,249; Sept. 19.
- Seats, Indicating device for theater. D. R. Allen and J. Franck. No. 1,429,057; Sept. 12.
- Seats, Sanitary pad for water-closet. H. H. Sommer. No. 1,437,455; Dec. 5.
- Secondary battery. G. W. Pleis, sr., and G. W. Pleis, jr. No. 1,427,970; Sept. 5.
- Secondary or storage battery. B. Ford. No. 1,433,681; Oct. 31.
- Secondary or storage battery. R. L. Walsh. No. 1,436,616; Nov. 21.
- Secret-service cord circuits. H. D. Currier. No. 1,439,071; Dec. 19.
- Section switch. N. J. A. Wahlberg. No. 1,410,974; Mar. 28.
- Sectional boiler. J. A. Howard, Sr. No. 1,411,101; Mar. 28.
- Sectional mold. J. Schiffhauer. No. 1,426,512; Aug. 22.
- Sectional table. W. A. Adams. No. 1,425,072; Aug. 8.
- Sectional table. G. A. Keane. No. 1,410,476; Mar. 21.
- Securing device. F. C. Anderson. No. 1,426,945; Aug. 22.
- Securing device. C. Mendler. No. 1,412,481; Apr. 11.
- Securing device. A. A. Tirrell. No. 1,403,655; Jan. 17.
- Securing means. E. P. Harris. No. 1,432,243; Oct. 17.
- Securing means. C. Mendler. No. 1,412,480; Apr. 11.
- Sediment remover. J. J. Rairden. No. 1,438,723; Dec. 12.
- Seed and ground tester. J. B. White. No. 1,423,979; July 25.
- Seed-breeding and infection purposes, Insulating case for. M. Plaut. No. 1,416,575; May 16.
- Seed cleaner. J. C. Garner. No. 1,406,636; Feb. 14.
- Seed, Delinting cotton. L. G. Polhamus. No. 1,425,688; Aug. 15.
- Seed drier. M. S. Nesbitt. No. 1,431,978; Oct. 17.
- Seed drill. A. E. Nightingale. No. 1,419,296; June 13.
- Seed-reclaiming process. S. Herr. No. 1,405,690; Feb. 7.
- Seed-sowing machine. A. H. Constable. No. 1,436,946; Nov. 28.
- Seeders, Feed mechanism for. J. T. Germain. No. 1,411,778; Apr. 4.
- Seeding machine. T. J. McBride. No. 1,407,796; Feb. 28.
- Seeding machine. W. A. Van Brunt. No. 1,439,928; Dec. 26.
- Seeds, Apparatus for separating. C. J. Chindbloom. No. 1,426,957; Aug. 22.
- Seeds, grain, and the like, Apparatus for cleaning and separating. F. M. Dosser. No. 1,415,811; May 9.
- Seeds having hard shells, Apparatus for deshelling. G. Mitchell. No. 1,411,177; Mar. 28.
- Seeds, Process of and apparatus for separating and polishing. W. A. Rice. No. 1,411,519; Apr. 4.
- Seesaw. T. E. Jordan. No. 1,422,766; July 11.
- Seesaw. E. M. Maxwell and I. K. Hearn. No. 1,429,289; Sept. 19.
- Seesaw. J. E. Smith. No. 1,434,850; Nov. 7.
- Seesaw and merry-go-round. E. V. Ayle. No. 1,436,426; Nov. 21.
- Segment gate. T. Becher. No. 1,422,076; July 11.
- Segment-trimming instrument. F. Dox. No. 1,426,263; Aug. 15.
- Seine-operating mechanism. T. Running. No. 1,421,996; July 4.
- Seines, Device for operating haul. A. Yancey. No. 1,413,552; Apr. 18.
- Selective receiving system. H. W. Nichols. No. 1,420,055; June 20.
- Selector. P. Gnifke. No. 1,413,329; Apr. 18.
- Selector. J. H. Wheelock. No. 1,403,996; Jan. 17.
- Selector apparatus. G. A. Righter. No. 1,412,631; Apr. 11.
- Selector or analyzer, Rotary. W. W. Lasker. No. 1,432,345; Oct. 17.
- Selector switch. C. A. W. Hultman. No. 1,415,648; May 9.
- Selenium and noble metals from electrolytic slimes, Recovering. M. Chikashige and D. Uno. No. 1,415,526; May 9.
- Self-balancing mechanism for producing gyratory motion. B. Neal and G. H. Hebebrand. No. 1,434,252; Oct. 31.
- Self-cleaning rake. S. M. Scarvie. No. 1,425,219; Aug. 8.
- Self-feeder for thrashing machines. N. R. Krause. No. 1,412,559; Apr. 11.
- Self-locking switch. W. S. Topper and J. A. Adams. No. 1,440,252; Dec. 26.
- Self-locking wrench. I. Cierpial. No. 1,404,581; Jan. 24.
- Self-lowering jack. F. L. Gormley. No. 1,437,753; Dec. 5.
- Self-lowering jack. J. C. Kopf. No. 1,410,576; Mar. 28.
- Self-lubricating bolt. C. H. Ortman. Nos. 1,428,251-2; Sept. 5.
- Self-righting post. E. W. Congdon, jr. No. 1,425,945; Aug. 15.
- Self-starter. H. Mallard and H. C. White. No. 1,420,121; June 20.
- Self-supporting clamp. C. C. Roberts. No. 1,420,147; June 20.
- Semaphore. A. Durán. No. 1,434,050; Oct. 31.
- Semaphore blade. W. F. Bossert. No. 1,434,476; Nov. 7.
- Semaphore blade. F. C. Lavarack. No. 1,426,300; Aug. 15.
- Sennitt. C. W. Ashley. No. 1,433,868; Oct. 31.
- Separable fastener. L. Ottinger. No. 1,411,580; Apr. 4.
- Separating and classifying apparatus. L. H. Falley. No. 1,406,177; Feb. 14.
- Separating and classifying apparatus. L. H. Falley. No. 1,410,288; Mar. 21.
- Separating and classifying apparatus. L. H. Falley. No. 1,422,092; July 11.
- Separating apparatus. F. B. Giesler. No. 1,430,638; Oct. 3.
- Separating frictionally-engaged members, Device for. E. F. Hodgkins. No. 1,434,437; Nov. 7.
- Separating machine. L. B. Terhune. No. 1,409,500; Mar. 14.
- Separating machine. J. E. Titchmarsh. No. 1,420,593; June 20.
- Separating, Method of and apparatus for. W. A. Worth. No. 1,431,205; Oct. 10.
- Separating or sorting apparatus. C. J. Lane. No. 1,422,807; July 11.
- Separating process. R. Ellis. Nos. 1,425,185-7; Aug. 8.
- Separator. See—
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| Air separator. | Dust separator. |
| Asbestos-fiber separator. | Egg separator. |
| Battery separator. | Gas separator. |
| Centrifugal separator. | Gas and oil separator. |
| Centrifugal dust separator. | Golf-club separator. |
| Coin separator. | Grain separator. |
| Conveyer and mold separator. | Gravitational separator. |
| Cotton separator. | Liquid separator. |
| Cotton cleaner and separator. | Magnetic separator. |
| Cotton-crop separator. | Oil separator. |
| Cream separator. | Ore separator. |
| Differential flotation separator. | Storage-battery separator. |
| | Wild-pea separator. |
- Separator. A. J. Dennig. No. 1,418,866; June 6.
- Separator. P. Fischbacher. No. 1,425,246; Aug. 8.
- Separator. E. C. Horst. No. 1,408,109; Feb. 28.
- Separator. A. Levedahl. No. 1,416,040; May 16.
- Separator. R. T. Meyer. No. 1,402,783; Jan. 10.
- Separator. E. J. and R. H. Moore. No. 1,427,117; Aug. 29.
- Separator. H. M. Wade. No. 1,419,429; June 13.
- Separator and drier. C. J. Wood. No. 1,416,922; May 23.
- Separator and evaporator, Centrifugal. C. R. Mabec. No. 1,420,642; June 27.
- Separator and grader, Grain. A. T. Hedfelt. No. 1,410,472; Mar. 21.
- Separator and the like. G. H. Fraser. No. 1,434,692; Nov. 7.
- Separator screen. H. S. Simpson. No. 1,431,987; Oct. 17.
- Separators, Indicator of speed for centrifugal. L. Rasch. No. 1,428,905; Sept. 12.
- Separators, Oiling device for bearings of centrifugal cream. P. B. Shee. No. 1,402,544; Jan. 3.
- Separators, Regulator for centrifugal. H. Feldmeier. No. 1,429,331; Sept. 19.
- Separators, Supporting strip for conical liner plates in the bowl of centrifugal. H. O. Lindgren. No. 1,427,486; Aug. 29.
- Separators with hanging bowls, Arrangement for. F. Mortensen. No. 1,403,341; Jan. 10.
- Septic tank. W. De Lhorbe. No. 1,407,389; Feb. 21.
- Serum, Apparatus for collecting. H. Spahlinger. No. 1,411,068; Mar. 28.
- Service box or tray. W. V. Holley. No. 1,426,079; Aug. 15.
- Service device. H. Zola. No. 1,425,432; Aug. 8.
- Service-observing set. G. Crisson. No. 1,412,103; Apr. 11.
- Service switch. J. A. Jessen. No. 1,417,920; May 30.
- Service switch. G. E. Palmer. No. 1,417,940; May 30.
- Service switch. A. B. Rypinski. No. 1,437,778; Dec. 5.
- Serving tray. M. Timmelfarb. No. 1,416,294; May 16.
- Setting-up means, Article. F. W. Danberg. No. 1,425,819; Aug. 8.
- Settling and septic tank. E. F. Cook. No. 1,422,674; July 11.
- Settling and thickening device. C. Allen. No. 1,408,154; Feb. 28.
- Settling apparatus. J. V. N. Dorr. Nos. 1,434,596-7; Nov. 7.
- Settling tank. C. Allen. No. 1,406,323; Feb. 14.
- Settling tank. W. H. Green. No. 1,417,516; May 30.
- Settling tank. W. H. Pavitt, jr. No. 1,430,181; Sept. 26.
- Sewage disposal. W. Gavett. No. 1,420,250; June 20.
- Sewage-disposal plant. H. E. Elrod. No. 1,439,407; Dec. 19.
- Sewage-disposal plant and system. H. E. Elrod. No. 1,439,406; Dec. 19.
- Sewage or the like, Apparatus for treating. C. P. Landreth. No. 1,412,945; Apr. 18.
- Sewage purifier. J. P. Ball. No. 1,410,358; Mar. 21.
- Sewage purifier. J. P. Ball. No. 1,415,007; May 9.
- Sewage purifier. J. P. Ball. No. 1,421,891; July 4.
- Sewage purifier. J. P. Ball. No. 1,434,520; Nov. 7.
- Sewer cleaner. O. O. P. Wiltermood. No. 1,437,374; Nov. 28.
- Sewer inlet. T. J. Burton. No. 1,434,677; Nov. 7.

Alphabetical list of inventions—Continued.

- Sewer trap. W. C. Shanley. No. 1,403,875; Jan. 17.
 Sewerage disposal tank. W. P. Hooker. No. 1,406,385; Feb. 14.
 Sewers and drainage, Sectional clay block structure for. F. H. Meier. No. 1,430,094; Sept. 26.
 Sewers, Receiver and stench trap for. J. Etchebère. No. 1,423,925; July 25.
 Sewed articles, Seam for. H. C. Moulton. No. 1,434,400; Nov. 7.
 Sewing and other machines, Guide or guard device for work-penetrating tools of. F. W. Merrick. No. 1,408,821; Mar. 7.
 Sewing and trimming machine. A. H. De Voe. No. 1,440,343; Dec. 26.
 Sewing buttons to shoe uppers, Machine for. B. T. Leveque. No. 1,415,250; May 9.
 Sewing kit. B. M. Spencer. No. 1,440,319; Dec. 26.
 Sewing machine. C. M. Abercrombie. No. 1,424,706; Aug. 1.
 Sewing machine. F. Baker. No. 1,417,476; May 23.
 Sewing machine. A. H. De Voe. No. 1,404,705; Jan. 24.
 Sewing machine. A. H. De Voe. No. 1,411,003; Mar. 28.
 Sewing machine. A. H. De Voe. No. 1,416,002; May 16.
 Sewing machine. A. H. De Voe. No. 1,416,005; May 16.
 Sewing machine. W. Evers. No. 1,407,849; Feb. 28.
 Sewing machine. J. Fossa. No. 1,406,180; Feb. 14.
 Sewing machine. G. S. Gatchell. No. 1,423,205; July 18.
 Sewing machine. G. M. Horton. No. 1,406,984; Feb. 21.
 Sewing machine. J. Kiewicz. No. 1,406,742; Feb. 14.
 Sewing machine. J. Kornas. No. 1,435,929; Nov. 21.
 Sewing machine. A. E. Lindner. No. 1,406,266; Feb. 14.
 Sewing machine. W. C. Meyer. No. 1,429,520; Sept. 19.
 Sewing machine. F. A. Reece. No. 1,424,851; Aug. 8.
 Sewing machine. J. H. Richardson. No. 1,412,423; Apr. 11.
 Sewing machine. J. C. Ringe. No. 1,404,146; Jan. 17.
 Sewing machine. J. C. Ringe. No. 1,436,460; Nov. 21.
 Sewing machine. P. P. Ruhe and W. A. Sonen. No. 1,405,443; Feb. 7.
 Sewing machine. A. R. Schoenky. No. 1,420,580; June 20.
 Sewing machine. W. W. Scott. No. 1,435,945; Nov. 21.
 Sewing machine. D. S. Seymour. No. 1,433,241; Oct. 24.
 Sewing machine. W. H. Stedman. No. 1,418,682; June 6.
 Sewing machine. W. E. Turner. No. 1,426,617; Aug. 22.
 Sewing machine. J. P. Weiss. No. 1,439,211; Dec. 19.
 Sewing machine. J. L. Wheeler. No. 1,427,140; Aug. 29.
 Sewing-machine attachment. A. H. De Voe. No. 1,413,835; Apr. 25.
 Sewing-machine attachment. A. H. De Voe. No. 1,420,414; June 20.
 Sewing-machine attachment. A. H. De Voe. No. 1,429,933; Sept. 26.
 Sewing-machine attachment. O. H. Gentry. No. 1,409,049; Mar. 7.
 Sewing-machine attachment. F. Heindrich and J. Gluck. No. 1,430,165; Sept. 26.
 Sewing-machine attachment. T. B. Huestis. No. 1,435,924; Nov. 21.
 Sewing-machine attachment. L. Liebman. No. 1,434,299; Oct. 31.
 Sewing machine, Bead-. A. H. Kursheedt. No. 1,433,287; Oct. 24.
 Sewing-machine bobbin case. L. E. Weaver. No. 1,414,763; May 2.
 Sewing-machine bobbin case. L. E. Weaver. No. 1,419,185; June 13.
 Sewing-machine bobbin case. L. E. Weaver. No. 1,423,056; July 18.
 Sewing machine, Book-. L. Egger. No. 1,428,153; Sept. 5.
 Sewing machine, Button-. W. L. Barron. No. 1,405,477; Feb. 7.
 Sewing machine, Button-. W. L. Barron. No. 1,429,919; Sept. 26.
 Sewing machine, Buttonhole-. E. B. Allen. (Reissue.) No. 1,5324; Apr. 4.
 Sewing machine, Buttonhole-. E. B. Allen. No. 1,418,223; May 30.
 Sewing machine, Buttonhole-. A. H. De Voe. No. 1,416,904; May 16.
 Sewing machine, Buttonhole-. G. S. Hill. No. 1,404,768; Jan. 31.
 Sewing machine, Buttonhole-. J. Kiewicz. No. 1,402,073; Jan. 3.
 Sewing machine, Buttonhole-. J. Kiewicz. No. 1,437,847; Dec. 5.
 Sewing-machine cabinet, Drophead-. E. Stark and J. Rehor. No. 1,402,805; Jan. 10.
 Sewing machine, Circularly-moving-hook. G. Woelfel and W. Hope. No. 1,438,076; Dec. 5.
 Sewing machine, Electrically-controlled. M. Hemleb. No. 1,409,951; Mar. 21.
 Sewing-machine feed, Elevation adjustment for. A. D. Smith. No. 1,417,865; May 30.
 Sewing-machine feeding mechanism. H. Corral and B. A. Stevens. No. 1,414,625; May 2.
 Sewing-machine feeding mechanism. T. J. Hayes. No. 1,410,753; Mar. 28.
 Sewing-machine feeding mechanism. A. J. Wohlpart. No. 1,410,860; Mar. 28.
 Sewing machine, Filled-sack-. C. G. Thompson. No. 1,403,922; Jan. 17.
 Sewing-machine folder. J. J. Heap. No. 1,412,001; Apr. 4.
 Sewing-machine frame. J. R. Moffatt. No. 1,423,243; July 18.
 Sewing machine, Glove and fur. A. Grieb. No. 1,426,472; Aug. 22.
 Sewing machine, Hemstitch. E. Gegauf. No. 1,410,467; Mar. 21.
 Sewing-machine illuminating device. J. Corbe. No. 1,419,822; June 13.
 Sewing-machine looper mechanism. R. R. Hughes, Jr. No. 1,422,060; July 4.
 Sewing-machine motor drive. A. T. Mace. No. 1,417,676; May 30.
 Sewing machine, Motor-driven. M. Hemleb. No. 1,409,950; Mar. 21.
 Sewing-machine motors, Mounting for. R. Ehrenfeld and H. G. Caldwell. No. 1,417,722; May 30.
 Sewing machine, Multiple-needle. G. S. Gatchell. No. 1,410,057; Mar. 21.
 Sewing-machine needle guard. J. G. Bailey. No. 1,407,114; Feb. 21.
 Sewing-machine needle guard. J. Chertok. No. 1,419,718; June 13.
 Sewing-machine needle plate. E. J. Rogers. No. 1,424,854; Aug. 8.
 Sewing-machine presser-lifting mechanism. A. H. De Voe. No. 1,420,413; June 20.
 Sewing machine, Revolving-hook. A. D. Smith. No. 1,415,268; May 9.
 Sewing-machine seam-margin-opening device. C. W. Thomas and P. W. Somers. No. 1,416,998; May 23.
 Sewing machine, Shoe-. W. C. Meyer. Nos. 1,411,797-8; Apr. 4.
 Sewing machine, Shoe-. W. C. Meyer. No. 1,431,973; Oct. 17.
 Sewing-machine shuttles, Adjunct for. L. E. Weaver. No. 1,421,873; July 4.
 Sewing machine, Straw-braid-. R. Becker. No. 1,429,390; Sept. 19.
 Sewing-machine tables, Attachment for. A. L. Pittelkow. No. 1,433,473; Oct. 24.
 Sewing machine, Wax-thread. W. C. Meyer. No. 1,406,206; Feb. 14.
 Sewing machine, Wax-thread. W. C. Meyer. No. 1,409,193; Mar. 14.
 Sewing machine, Wax-thread. L. E. Topham. No. 1,419,994; June 20.
 Sewing machines, Adjustable carrier for. I. F. Webb. No. 1,424,698; Aug. 1.
 Sewing machines, Attachment for. J. Marsden. No. 1,411,860; Apr. 4.
 Sewing machines, Binding attachment for. F. T. Ströbeck. No. 1,402,977; Jan. 10.
 Sewing machines, Braid-guiding device for. I. Griclunas. No. 1,410,178; Mar. 21.
 Sewing machines, Button clamp for. W. L. Barron. No. 1,415,426; May 9.
 Sewing machines, Clamp for. A. F. Fifield. No. 1,404,750; Jan. 31.
 Sewing machines, Controller for electrically-driven. D. M. Durkee. No. 1,419,723; June 13.
 Sewing machines, Covering-thread mechanism for. A. H. De Voe. No. 1,403,897; Jan. 17.
 Sewing machines, Covering-thread mechanism for. G. S. Gatchell. No. 1,403,857; Jan. 17.
 Sewing machines, Cutting device for. J. W. Schiller. No. 1,409,121; Mar. 7.
 Sewing machines, Differential feeding mechanism for. G. S. Gatchell. No. 1,407,023; Feb. 21.
 Sewing machines, Distributor for. C. E. P. Julien. No. 1,409,009; Mar. 7.
 Sewing machines, Driving mechanism for. A. B. Cohn. No. 1,406,933; Feb. 14.
 Sewing machines, Driving mechanism for. B. Weinberger. No. 1,413,083; Apr. 18.
 Sewing machines, etc., Stopping mechanism for. G. E. Molyneux. No. 1,417,093; May 23.
 Sewing machines, Fan attachment for. W. Laburda. No. 1,427,827; Sept. 5.
 Sewing machines, Fan for. E. Della and V. Corrado. No. 1,417,470; May 23.
 Sewing machines, Feeding and gathering mechanism for. C. Nielsen. No. 1,432,084; Oct. 17.
 Sewing machines, Feeding mechanism for. A. H. De Voe. No. 1,435,454; Nov. 14.
 Sewing machines, Feeding mechanism for. J. R. Moffatt. No. 1,439,432; Dec. 19.
 Sewing machines, Feeding mechanism for. G. E. Molyneux. No. 1,402,945; Jan. 10.
 Sewing machines, Feeding mechanism for. D. S. Seymour. No. 1,414,591; May 2.
 Sewing machines, Feeding mechanism for filled-bag. D. S. Seymour. No. 1,403,874; Jan. 17.
 Sewing machines, Folder for. J. E. Chalman. No. 1,422,176; July 11.
 Sewing machines, Folder for. J. E. Chalman. No. 1,433,447; Oct. 24.
 Sewing machines, Folding and trimming mechanism for. C. W. Brown. No. 1,438,293; Dec. 12.
 Sewing machines, Guide for. J. E. Chalman. No. 1,439,944; Dec. 26.
 Sewing machines, Guiding attachment for. R. A. Murchison. No. 1,403,094; Jan. 10.
 Sewing machines, Guiding device for. O. E. Rohn. No. 1,435,661; Nov. 14.

- Sewing machines, Light attachment for. A. T. Bertolini. No. 1,415,771; May 9.
- Sewing machines, Loooper mechanism for shoe. F. E. Valois. No. 1,419,997; June 20.
- Sewing machines, Loooper - thread - controlling mechanism for. G. S. Gatchell. No. 1,408,185; Feb. 28.
- Sewing machines, Measuring attachment for. S. C. Copoll. No. 1,427,676; Aug. 29.
- Sewing machines, Motive-power appliance for. D. Lustig. No. 1,418,007; May 30.
- Sewing machines, Motor attachment for. M. Hemleb. No. 1,433,719; Oct. 31.
- Sewing machines, Motor drive for. H. Maimin. No. 1,422,218; July 11.
- Sewing machines, Motor drive for. H. Maimin. No. 1,435,934; Nov. 21.
- Sewing machines, Needle clamp for. J. Berger. No. 1,430,930; Oct. 3.
- Sewing machines, Needle guard for. C. Seaman. No. 1,410,413; Mar. 21.
- Sewing machines, Needle-guide-controlling means for. M. T. Denne. No. 1,417,978; May 30.
- Sewing machines, Needle-shogging mechanism for. H. C. Moulton. No. 1,434,398; Nov. 7.
- Sewing machines, Pedal apparatus for. H. Berggraf. No. 1,416,324; May 16.
- Sewing machines, Presser-foot attachment for. E. J. Maloney. No. 1,421,797; July 4.
- Sewing machines, Presser foot for. W. L. Beavers. No. 1,435,044; Nov. 7.
- Sewing machines, Presser foot for. A. H. De Voe. No. 1,404,704; Jan. 24.
- Sewing machines, Presser foot for. C. Grim. No. 1,411,344; Apr. 4.
- Sewing machines, Presser-foot mechanism for. H. C. Moulton. No. 1,434,399; Nov. 7.
- Sewing machines, Pull-off means for. L. M. Tucker and P. W. Hatfield. No. 1,437,786; Dec. 5.
- Sewing machines, Rotary take-up for. A. D. Smith. No. 1,415,269; May 9.
- Sewing machines, Rufling mechanism for. C. W. Thomas. No. 1,412,903; Apr. 18.
- Sewing machines, Shuttle driver for. N. McKenzie. No. 1,413,175; Apr. 18.
- Sewing machines, Spool holder for. H. A. Meissel. No. 1,423,487; July 18.
- Sewing machines, Stitch control for. J. A. Flanagan. No. 1,404,357; Jan. 24.
- Sewing machines, Stitch-forming mechanism for. J. R. Moffatt. No. 1,405,855; Feb. 7.
- Sewing machines, Stitch-forming mechanism for chain-stitch. A. F. Fifield. No. 1,421,438; July 4.
- Sewing machines, Stitching mechanism for. J. E. Chalm. No. 1,436,944; Nov. 28.
- Sewing machines, Stop motion for. J. G. Bailey. No. 1,407,367; Feb. 21.
- Sewing machines, Stop motion for. C. J. Franklin. No. 1,430,498; Sept. 26.
- Sewing machines, Stop motion for shoe. F. E. Valois. No. 1,422,639; July 11.
- Sewing machines, Stopping mechanism for. H. C. Miller. No. 1,428,648; Sept. 12.
- Sewing machines, Strip guiding and controlling attachment for. J. C. Ringe. No. 1,422,808; July 11.
- Sewing machines, Thread-controlling mechanism for. G. S. Gatchell. No. 1,439,468; Dec. 19.
- Sewing machines, Thread-controlling mechanism for. A. Grieb. No. 1,433,000; Oct. 24.
- Sewing machines, Thread-controlling mechanism for. P. A. Herr. No. 1,402,930; Jan. 10.
- Sewing machines, Thread cutter for. A. F. Fifield. No. 1,401,973; Jan. 3.
- Sewing machines, Thread cutter for. E. H. A. Habbert and E. Stone. No. 1,411,089; Mar. 28.
- Sewing machines, Thread cutting and ripping mechanism for. E. B. Allen. No. 1,404,727; Jan. 31.
- Sewing machines, Thread-cutting mechanism for. F. W. Ostrom and I. F. Webb. No. 1,438,548; Dec. 12.
- Sewing machines, Thread-laying mechanism for. D. S. Seymour. No. 1,411,891; Apr. 4.
- Sewing machines, Trimming device for. A. H. De Voe. No. 1,426,466; Aug. 22.
- Sewing machines, Trimming mechanism for. A. H. De Voe. No. 1,431,935; Oct. 17.
- Sewing machines, Trimming mechanism for. A. H. De Voe. No. 1,433,705; Oct. 31.
- Sewing machines, Trimming mechanism for. J. R. Moffatt. No. 1,403,807; Jan. 17.
- Sewing machines, Trimming mechanism for. W. E. Raynor. No. 1,428,980; Sept. 12.
- Sewing machines, Trimming mechanism for automatic. G. E. Molyneux. No. 1,403,418; Jan. 17.
- Sewing machines, Universal feed mechanism for. J. Goldberg. No. 1,438,593; Dec. 12.
- Sewing machines, Work-guiding mechanism for. G. S. Gatchell. No. 1,431,579; Oct. 10.
- Sewing machines, Work holder for. C. H. Lucy. No. 1,431,591; Oct. 10.
- Sewing machines, Work-presenting mechanism for. T. J. Hayes. No. 1,413,581; Apr. 25.
- Sewing machines, Work-shifting mechanism for. A. H. De Voe. No. 1,416,003; May 16.
- Sewing machines, Work-spacing mechanism in buttonhole. B. T. Leveque. No. 1,428,598; Sept. 12.
- Sewing machines, Worktable for. H. C. Moulton. No. 1,438,255; Dec. 12.
- Sex calculator. H. R. Tidswell. No. 1,428,065; Sept. 5.
- Shackle. H. B. McCandless. No. 1,407,942; Feb. 28.
- Shackle bolt. A. H. Gits. No. 1,433,947; Oct. 31.
- Shackle, chain coupling, or the like. J. McLaughlin. No. 1,419,974; June 20.
- Shackle, Spring. G. H. Hayes. No. 1,426,064; Aug. 15.
- Shackle, Spring. L. H. Parcher. No. 1,426,406; Aug. 22.
- Shade and blind holder, Adjustable. W. Dunson. No. 1,405,400; Feb. 7.
- Shade and curtain bracket. J. A. Hemfling. No. 1,417,247; May 23.
- Shade and curtain fixture, Extensible. J. Miller. No. 1,435,613; Nov. 14.
- Shade and curtain hanger. W. E. Pinney and T. Donahue. No. 1,437,354; Nov. 28.
- Shade and curtain hanger, Combination. C. Kondracki. No. 1,416,093; May 16.
- Shade and curtain holder. J. L. Eveland. No. 1,403,755; Jan. 17.
- Shade and curtain holder, Window-. F. S. Eskew, C. C. Bragg, and C. E. Eskew. No. 1,404,104; Jan. 17.
- Shade and curtain-rod holder, Combined. F. J. Fell. No. 1,431,786; Oct. 10.
- Shade appliance. A. C. Hough. Nos. 1,414,020-1; Apr. 25.
- Shaft bearing. T. V. Buckwalter. No. 1,439,402; Dec. 19.
- Shade bracket and curtain-pole support, Combined window-. M. P. Comeau and A. A. Fredette. No. 1,412,923; Apr. 18.
- Shade bracket, Window-. E. A. Rejsa. No. 1,425,052; Aug. 8.
- Shade holder. L. W. Andersen. No. 1,417,481; May 30.
- Shade holder. S. Ciss. No. 1,412,608; Apr. 11.
- Shade holder. T. W. Rolph. No. 1,430,854; Oct. 3.
- Shade holder, Window-. C. T. Bailey and A. B. Wilson. No. 1,407,624; Feb. 21.
- Shade - holding attachment. A. Motschenbacher. No. 1,407,876; Feb. 28.
- Shade material, Apparatus for making painted window-. J. P. Whitmore. No. 1,407,241; Feb. 21.
- Shade-operating device. C. Lenardic. No. 1,432,703; Oct. 17.
- Shade, Outside window. E. Flagg. No. 1,434,882; Nov. 7.
- Shade raiser. J. B. Heflin. No. 1,413,731; Apr. 25.
- Shade roller. J. E. Cowel. No. 1,406,934; Feb. 14.
- Shade roller. T. Digney. No. 1,407,991; Feb. 28.
- Shade-roller-controlling means. J. C. Spencer. No. 1,435,426; Nov. 14.
- Shade-roller-controlling means, Automatic. J. C. Spencer. No. 1,438,669; Dec. 12.
- Shade roller holder and adjuster, Window-. J. H. La Pearl. No. 1,411,174; Mar. 28.
- Shade-roller safety catch. W. C. Moors. No. 1,411,865; Apr. 4.
- Shade-roller stop. W. C. Moors. No. 1,403,340; Jan. 10.
- Shade support, Roller-. A. Heckathorn. No. 1,434,054; Oct. 31.
- Shade, Window. J. J. Forster. No. 1,439,540; Dec. 19.
- Shaffer-strip-guide device. A. D. Kilgore. No. 1,418,653; June 6.
- Shaft and making same, Flexible. C. H. Veeder. No. 1,421,623; July 4.
- Shaft attachment. G. G. Purcell. No. 1,415,702; May 9.
- Shaft casing. L. Ringer. No. 1,417,349; May 23.
- Shaft collar. A. S. Nichols. No. 1,409,758; Mar. 14.
- Shaft collar. G. F. Shaffer. No. 1,405,342; Jan. 31.
- Shaft-control device. C. H. Clark and H. L. Beach. No. 1,417,794; May 30.
- Shaft coupling. H. B. Brown. No. 1,431,286; Oct. 10.
- Shaft coupling. J. Buchli. No. 1,428,750; Sept. 12.
- Shaft coupling. H. D. Church. No. 1,422,339; July 11.
- Shaft coupling. T. C. Dobbins. No. 1,416,341; May 16.
- Shaft coupling. W. Edwards. No. 1,434,690; Nov. 7.
- Shaft coupling. P. N. Geiger. No. 1,429,580; Sept. 19.
- Shaft coupling. E. Higgins. No. 1,413,117; Apr. 18.
- Shaft coupling. F. E. Reed. No. 1,414,207; Apr. 25.
- Shaft coupling. C. Steenstrup. No. 1,408,041; Feb. 28.
- Shaft coupling. E. D. Tubbs. No. 1,404,811; Jan. 31.
- Shaft coupling. E. D. Tubbs. No. 1,406,247; Feb. 14.
- Shaft coupling. E. D. Tubbs. No. 1,429,982; Sept. 26.
- Shaft coupling. W. R. Walker. No. 1,417,432; May 23.
- Shaft coupling, Universal. G. Barker. No. 1,420,271; Sept. 19.
- Shaft couplings, Lubricating journal box for. F. R. Loeffler. No. 1,439,010; Dec. 19.
- Shaft cutting and centering machine. A. H. Segler. No. 1,427,233; Aug. 29.
- Shaft, Flexible. A. J. Cawse. No. 1,437,493; Dec. 5.
- Shaft-lubricating system. F. W. Krogh. No. 1,415,367; May 9.
- Shaft terminal, Flexible. W. W. Elliott. No. 1,433,537; Oct. 31.
- Shaft-turning device, Hand. J. Kindl. No. 1,415,039; May 9.
- Shaft, Yieldable drive. R. E. Carter. No. 1,416,264; May 16.
- Shafting, Flexible. E. Higgins. No. 1,411,433; Apr. 4.
- Shafts, Bearing clamp for engine. P. H. Gentzel. No. 1,410,058; Mar. 21.
- Shafts, Flexible expansion coupling for rotary. W. Robertson. No. 1,407,299; Feb. 21.

Alphabetical list of inventions—Continued.

- Shafts, Keying device for. P. Hariveau. No. 1,417,826; May 30.
- Shafts, Means for cooling. H. J. Stehli. No. 1,439,491; Dec. 19.
- Shafts, Means for facilitating the removal of pulleys, wheels, and the like from. T. W. Carradus and D. Nield. No. 1,402,477; Jan. 3.
- Shafts, Means of securing hubs to. W. G. Wilson. No. 1,402,463; Jan. 3.
- Shafts of machines, Detachable support for horizontal. H. W. Fahrlander. No. 1,408,282; Feb. 28.
- Shafts, Process and apparatus for the manufacture of crank. E. Becker and R. Suchoparek. No. 1,414,108; Apr. 25.
- Shafts, Speed-controlling device for. B. D. Lockwood. No. 1,439,827; Dec. 26.
- Shafts, Thrust-bearing means for crank. B. W. Waugh and G. H. Standerline. No. 1,438,415; Dec. 12.
- Shafts, Universal joint for coupling. C. M. Spangler. No. 1,407,445; Feb. 21.
- Shaker. J. B. Sweet. No. 1,411,594; Apr. 4.
- Shaker screen, Revolving. J. C. Uhlarik. No. 1,423,370; July 18.
- Shaking machine. J. P. McCoy. No. 1,409,052; Mar. 7.
- Shale, Distilling. E. E. Hedges. No. 1,423,716; July 25.
- Shampoo device. J. G. Jones and O. W. Rose. No. 1,429,950; Sept. 26.
- Shank stiffener. F. G. Delbon. No. 1,432,160; Oct. 17.
- Shaping and ironing tool. F. E. Kern. No. 1,417,668; May 30.
- Shaping and ironing tool. F. E. Kern. No. 1,418,881; June 6.
- Shaping articles, Machine for. E. R. Barany. No. 1,432,315; Oct. 17.
- Shaping device. R. L. Carter. No. 1,433,497; Oct. 24.
- Shaping machine. W. T. Sears. No. 1,423,266; July 18.
- Shaping-machine attachment. W. Tate. No. 1,435,758; Nov. 14.
- Shaping machine for articles. G. B. Brown. No. 1,407,724; Feb. 28.
- Sharpener. I. C. Luman. No. 1,438,447; Dec. 12.
- Sharpener, Blade. F. P. Schmidt. No. 1,404,326; Jan. 24.
- Sharpener, Chalk. A. Waisman. No. 1,413,080; Apr. 18.
- Sharpener, Cutlery. J. Keder. No. 1,439,711; Dec. 26.
- Sharpener, Disk. Z. M. Bain. No. 1,406,716; Feb. 14.
- Sharpener, Drill. W. H. Wineman. No. 1,405,084; Jan. 31.
- Sharpener, Edge-tool. O. Kampfe. No. 1,426,083; Aug. 15.
- Sharpener, Knife. M. T. Graf. No. 1,417,054; May 23.
- Sharpener, Knife. H. Hopkes. No. 1,440,220; Dec. 26.
- Sharpener, Knife. M. L. Luebben. No. 1,415,375; May 9.
- Sharpener, Knife. E. R. Nichols. No. 1,438,052; Dec. 5.
- Sharpener, Knife. G. C. Vollmer. No. 1,429,984; Sept. 26.
- Sharpener, Knife and scissors. C. W. Brown. No. 1,414,172; Apr. 25.
- Sharpener, Lawn-mower. T. J. Connolly. No. 1,426,548; Aug. 22.
- Sharpener, Lawn-mower. E. B. Lancaster. No. 1,432,193; Oct. 17.
- Sharpener, Lawn-mower. C. S. Swain and C. Corum. No. 1,405,561; Feb. 7.
- Sharpener, Pencil. A. J. Funsch. No. 1,420,539; June 20.
- Sharpener, Pencil. H. M. Harte. No. 1,402,351; Jan. 3.
- Sharpener, Pencil. H. M. Harte. No. 1,405,210; Jan. 31.
- Sharpener, Pencil. E. R. Wolcott. No. 1,418,858; June 6.
- Sharpener, Razor-blade. A. R. Salstrom. No. 1,425,290; Aug. 8.
- Sharpener, Rotary cutter. G. E. Burton. No. 1,433,339; Oct. 24.
- Sharpener, Rotary razor. C. B. Collins. No. 1,426,152; Aug. 15.
- Sharpening and polishing machine, Disk. A. Hansen. No. 1,436,166; Nov. 21.
- Sharpening cutting implements, Apparatus for. J. C. Conn. No. 1,439,230; Dec. 19.
- Sharpening device. W. H. Frankland. No. 1,417,158; May 23.
- Sharpening device. E. E. Rogers. No. 1,426,911; Aug. 22.
- Sharpening machine, Blade. W. E. Nickerson. No. 1,427,163; Aug. 29.
- Sharpening material. V. W. Brooks. No. 1,430,052; Sept. 26.
- Sharpening mechanism, Blade. C. A. Strand. No. 1,427,130; Aug. 29.
- Sharpening tool. C. V. Wright. No. 1,405,730; Feb. 7.
- Shave, Universal concave. G. Ingelson. No. 1,425,260; Aug. 8.
- Shaving cup. J. R. Alden. No. 1,404,256; Jan. 24.
- Shaving mug, Soap-saver. J. A. Matthews. No. 1,430,917; Oct. 3.
- Shaving sticks, Container and holder for. J. B. Albright. No. 1,415,621; May 9.
- Sheaf elevator. D. I. Norris and L. A. Johnston. No. 1,402,787; Jan. 10.
- Shear for elongate material. N. C. Rendleman. No. 1,439,024; Dec. 19.
- Shearing device. A. A. R. Berger and G. J. Hoffman. No. 1,411,605; Apr. 4.
- Shearing machine, Bevel. A. R. Roberts. No. 1,426,216; Aug. 15.
- Shears. E. N. Arnot. No. 1,428,830; Sept. 12.
- Shears. G. W. Killin. No. 1,425,779; Aug. 15.
- Shears. G. L. Rogers. No. 1,422,786; July 11.
- Shears. W. F. Sherman. No. 1,425,061; Aug. 8.
- Shears, Animal. H. Kocourek. No. 1,404,301; Jan. 24.
- Shears, Animal. H. Kocourek. No. 1,411,440; Apr. 4.
- Shears, Attachment for pruning. A. Rausse. No. 1,426,214; Aug. 15.
- Shears especially for rolled iron. A. Wagenbach. No. 1,430,705; Oct. 3.
- Shears, Hand. W. Pacey. No. 1,415,609; May 9.
- Shears holder. T. Rayder. No. 1,427,849; Sept. 5.
- Shears, Pruning. A. Bratschie. No. 1,425,744; Aug. 15.
- Shears, Sheet-metal. C. D. Wagner. No. 1,410,972; Mar. 28.
- Shears, Wire-rope. W. E. and C. E. Wintemute. No. 1,413,447; Apr. 18.
- Sheave attachment. H. Trumm. No. 1,438,674; Dec. 12.
- Sheave block. W. Houghton. No. 1,406,560; Feb. 14.
- Sheave block. D. G. Manges. No. 1,424,503; Aug. 1.
- Sheave carrier, Rope. W. E. Hale. No. 1,437,301; Nov. 28.
- Sheave support. R. H. Beaumont. No. 1,437,335; Nov. 28.
- Sheave wheel. C. M. Snider. No. 1,433,914; Oct. 31.
- Sheet and tin-plate bars, Method of and furnace for heat-treating. T. V. Allis. No. 1,417,012; May 23.
- Sheet and tin plates, Mechanical doubler for. P. B. Abramsen. No. 1,434,470; Nov. 7.
- Sheet body, Composite. G. S. Finney. No. 1,430,365; Sept. 26.
- Sheet-controlling apparatus. H. E. Lindbladh. No. 1,439,315; Dec. 19.
- Sheet-controlling mechanism. A. P. Gustafson. Nos. 1,429,905-6; Sept. 19.
- Sheet-cooling machine. J. H. Schlafly. No. 1,434,504; Nov. 7.
- Sheet-cutting machine. C. E. Dellenbarger. No. 1,407,016; Feb. 21.
- Sheet delivery. O. Roosen. No. 1,427,852; Sept. 5.
- Sheet feeder, Pneumatic. H. L. Brigham. No. 1,435,205; Nov. 14.
- Sheet feeder, Suction. B. D. Stevens. No. 1,433,423; Oct. 24.
- Sheet feeding. H. R. King. No. 1,412,872; Apr. 18.
- Sheet-feeding apparatus. A. Broadmeyer. No. 1,408,688; Mar. 7.
- Sheet-feeding device. L. Lee. No. 1,409,012; Mar. 7.
- Sheet-feeding machine. W. C. Baxter. No. 1,438,213; Dec. 12.
- Sheet-feeding machine. C. E. Christophel. No. 1,410,996; Mar. 28.
- Sheet-feeding machine. J. G. Hardie. No. 1,412,404; Apr. 11.
- Sheet-feeding machine. R. D. Schoenwetter. No. 1,416,985; May 23.
- Sheet-feeding machine. H. Steinmetz. No. 1,420,458; June 20.
- Sheet-feeding mechanism. F. De Minico. No. 1,428,149; Sept. 5.
- Sheet-feeding mechanism. R. Hitchcock. No. 1,419,733; June 13.
- Sheet-feeding mechanism. A. Olson. No. 1,426,904; Aug. 22.
- Sheet-feeding mechanism. W. G. Trautman. No. 1,413,245; Apr. 18.
- Sheet-feeding mechanism. J. White. No. 1,412,812; Apr. 11.
- Sheet-feeding method and means. J. C. Thom. No. 1,425,350; Aug. 8.
- Sheet-glass clamp. C. Brown. No. 1,431,928; Oct. 17.
- Sheet-grouping machine. F. W. Neely. No. 1,432,890; Oct. 24.
- Sheet-handling machine. A. A. Schwartz. No. 1,439,580; Dec. 19.
- Sheet-loading device. R. A. Knight. No. 1,406,656; Feb. 14.
- Sheet, Loose-leaf. H. M. Williams. No. 1,405,882; Feb. 7.
- Sheet machines, Mechanical sheet stop for smut. J. E. Gilbert and G. W. Harris. No. 1,420,653; June 27.
- Sheet material and making same, Permeable. W. A. Gibbons and H. W. Ritter. No. 1,427,754; Aug. 29.
- Sheet material in rolls, Dispensing device for. H. L. De Lisle. No. 1,409,363; Mar. 14.
- Sheet material, Machine for integrating. W. E. Hosch. No. 1,404,026; Jan. 17.
- Sheet material, Method and machine for use in cutting. A. E. Hudson. No. 1,403,497; Jan. 17.
- Sheet material, Process of and machine for cutting. S. Wheeler. No. 1,418,115; May 30.
- Sheet metal, Apparatus for producing fluted columns of. W. Andrew. No. 1,420,608; June 20.
- Sheet-metal article. F. E. Bayer. No. 1,425,232; Aug. 8.
- Sheet-metal box. F. Westerbeck. No. 1,411,464; Apr. 4.
- Sheet-metal building. H. Bloedow and J. Schaffner. No. 1,429,400; Sept. 19.
- Sheet-metal can. I. E. Sexton. No. 1,419,314; June 13.
- Sheet-metal containers, Closure member for. C. T. Draper. No. 1,436,021; Nov. 21.
- Sheet metal, Device for producing extruded. A. F. Rockwell. No. 1,423,361; July 18.
- Sheet metal, Device for smoothing. J. C. Stiles. No. 1,420,064; June 20.
- Sheet-metal display box. F. Westerbeck. No. 1,411,463; Apr. 4.

Alphabetical list of inventions—Continued.

- Sheet metal, Forming. F. H. Stolp. No. 1,408,232; Feb. 28.
- Sheet metal, Forming an article of. W. H. Needham. No. 1,427,315; Aug. 29.
- Sheet-metal-forming machines, Rolls for. E. H. Scott. No. 1,415,408; May 9.
- Sheet-metal house. C. D. Pruden. No. 1,406,757; Feb. 14.
- Sheet metal, Machine for expanding. H. Salmon and H. Booton. No. 1,408,647; Mar. 7.
- Sheet metal, Manufacture of blanks of. F. Drury. No. 1,424,005; July 25.
- Sheet-metal packs, Opening. C. J. Angstrom. No. 1,420,359; June 20.
- Sheet-metal-pipe blank. O. J. Firestone. No. 1,437,050; Nov. 28.
- Sheet-metal plates, Apparatus used in the manufacture of. D. Davies and D. Jones. No. 1,422,085; July 11.
- Sheet-metal plating or coating machine. N. Camelo. No. 1,430,054; Sept. 26.
- Sheet-metal structure and fastener therefor. H. Rosenberg. No. 1,411,184; Mar. 28.
- Sheet-metal structure, Built-up. H. B. Layman. No. 1,418,309; June 6.
- Sheet-metal tumbler lock. J. B. Freysinger. No. 1,431,735; Oct. 10.
- Sheet-metal wheel. P. L. Leisse. No. 1,403,608; Jan. 17.
- Sheet or card, Record. J. A. Wherry. No. 1,424,968; Aug. 8.
- Sheet piling, Interlocking. C. S. Boardman. No. 1,411,905; Apr. 4.
- Sheet register. H. Ehlig. No. 1,439,804; Dec. 26.
- Sheet-registering device. L. P. Hughes. No. 1,405,514; Feb. 7.
- Sheet-registering device. C. P. Klorer. Nos. 1,419,148-9; June 13.
- Sheet-registering device. W. H. Smith. No. 1,419,175; June 13.
- Sheet-registering mechanism. C. E. Christophel and F. J. Eiserman. No. 1,404,376; Jan. 24.
- Sheet-registering mechanism. J. White. No. 1,419,595; June 13.
- Sheet, Ruled. C. A. Brittain. No. 1,429,485; Sept. 19.
- Sheet-steel wheel. W. E. Williams. No. 1,410,044; Mar. 21.
- Sheet-straightening apparatus. P. Volkmer. No. 1,421,868; July 4.
- Sheet-straightening device. E. Burd. No. 1,431,096; Oct. 3.
- Sheet timing and transferring mechanism, Two-path. F. R. Belluche. No. 1,406,603; Feb. 14.
- Sheet-winding machine. B. J. Gudge. No. 1,431,946; Oct. 17.
- Sheeting and locking bar, Metallic. J. R. Webb and H. G. G. Blakemore. Nos. 1,431,273-4; Oct. 10.
- Sheets, Collated work. J. A. Wherry. No. 1,403,663; Jan. 17.
- Sheets, Collated work. J. A. Wherry. No. 1,424,967; Aug. 8.
- Sheets, Cutting disks or blanks from untrimmed commercial. P. A. Assmann, jr. No. 1,439,393; Dec. 19.
- Sheets edge to edge, Method of and apparatus for gluing. A. Elmendorf. No. 1,428,765; Sept. 12.
- Sheets, Method of and means for heating printed. J. E. Doyle. No. 1,405,506; Feb. 7.
- Sheets printed in cylinder flat-bed machines, Device for interleaving. C. Winkler. No. 1,415,752; May 9.
- Sheets, Producing tin-coated. J. B. Russ. No. 1,435,260; Nov. 14.
- Shelf, Display. A. W. Dewitt. No. 1,407,845; Feb. 28.
- Shelf, Folding. H. D. Herpst and S. L. Smith. No. 1,402,929; Jan. 10.
- Shelf incinerator, Multiple. C. H. S. Williamson. No. 1,416,430; May 16.
- Shelf, Milk. J. S. C. Adamson. No. 1,435,782; Nov. 14.
- Shelf, shutter, and the like, Folding. A. J. Ware. No. 1,427,663; Aug. 29.
- Shelf with label. S. W. McKee and J. H. Allen. No. 1,402,877; Jan. 10.
- Shelving. C. M. Coutts. No. 1,429,846; Sept. 19.
- Shelving. J. B. O'Connor. No. 1,418,324; June 6.
- Shelving and other articles, Locking mechanism for. A. H. Levene. No. 1,423,861; July 25.
- Shelving, Rollless rack. H. C. Baker and E. G. Lehman. No. 1,411,260; Apr. 4.
- Shelving construction, Metal. A. J. Meyer. No. 1,435,321; Nov. 14.
- Shelving, Manufacturing. J. B. O'Connor. No. 1,431,173; Oct. 10.
- Shelving, Metal. K. E. Humbert. No. 1,403,961; Jan. 17.
- Shelving, Sectional metal. F. J. Vincent. No. 1,432,044; Oct. 17.
- Shell. O. D. Lucas. No. 1,434,784; Nov. 7.
- Shell. O. D. Lucas. No. 1,439,674; Dec. 19.
- Shell. T. L. Wecke. No. 1,417,475; May 23.
- Shell. H. E. Winans. No. 1,421,882; July 4.
- Shell for firing against armor plating and resisting targets. A. J. Lefevre. No. 1,402,776; Jan. 10.
- Shell, Incendiary. J. H. Hammond, jr. No. 1,435,228; Nov. 14.
- Shell, Making an explosive. C. W. Porter. No. 1,438,399; Dec. 12.
- Shell or sheet, Blasting. R. L. Bowman. No. 1,431,771; Oct. 10.
- Shell-rim stretcher. R. G. Lawrence. No. 1,432,605; Oct. 17.
- Shell, Shotgun. C. A. Shaeffer. No. 1,429,646; Sept. 19.
- Sheller. See—
Bean sheller. Corn sheller.
- Shelling-machine hoppers, Door attachment for. O. W. Brzazowsky and E. McWilliams. No. 1,434,647; Nov. 7.
- Shells, Manufacturing. R. C. Penfield. No. 1,412,794; Apr. 11.
- Shells or projectiles, Impact detonator for. G. P. Ohlgart. No. 1,411,889; Apr. 4.
- Shells, Process and apparatus for expanding metal. W. Klocke. No. 1,436,659; Nov. 28.
- Shells, Wad for shot. H. W. Gregory and G. F. Betts. No. 1,435,226; Nov. 14.
- Shelter, Traffic. J. A. McKelvy. No. 1,431,243; Oct. 10.
- Sherardizing furnace. A. M. MacFarland. No. 1,433,735; Oct. 31.
- Shield. E. O. Frederics. No. 1,426,373; Aug. 22.
- Shield. F. H. Hale. No. 1,438,109; Dec. 5.
- Shield. A. Reed. No. 1,403,867; Jan. 17.
- Shield. H. L. Smith. No. 1,419,322; June 13.
- Shield, Expansion. H. W. Pleister. No. 1,417,197; May 23.
- Shield, Glare. J. H. Ramsay. No. 1,413,683; Apr. 25.
- Shield, Manifold. P. C. Huntly. No. 1,416,352; May 16.
- Shield, Sun and rain. R. D. Parker. No. 1,403,620; Jan. 17.
- Shield, Vision. H. L. Smith. No. 1,419,321; June 13.
- Shield with interlocking cap, Expansion. C. C. Tomkinson. No. 1,412,581; Apr. 11.
- Shift, Automatic. F. J. Heine. No. 1,413,271; Apr. 18.
- Shim. J. H. Akins. No. 1,424,063; July 25.
- Shim. F. J. Flinn. No. 1,421,441; July 4.
- Shim. H. Wyman. No. 1,404,825; Jan. 31.
- Shims, Making. B. Darrach, Jr. No. 1,417,039; May 23.
- Shingle. H. Abraham. No. 1,438,571; Dec. 12.
- Shingle. R. K. Clifton. No. 1,436,945; Nov. 28.
- Shingle. C. Davis. No. 1,403,392; Jan. 10.
- Shingle. N. P. Harshberger. No. 1,410,299; Mar. 21.
- Shingle. A. J. Hauber. No. 1,434,116; Oct. 31.
- Shingle. E. W. Leshner. Nos. 1,425,991-2; Aug. 15.
- Shingle. E. R. Snyder. (Reissue.) No. 15,352; May 9.
- Shingle. L. M. Stufings. No. 1,417,641; May 30.
- Shingle and attaching means therefor, Combination. A. R. Bergen. No. 1,431,869; Oct. 10.
- Shingle, Asbestos. J. A. Schaarwath and C. R. Burkhardt. No. 1,404,483; Jan. 24.
- Shingle bundles, Cover board for. C. S. Bird. No. 1,429,836; Sept. 19.
- Shingle, Butt-end interlocking composition. H. G. Hose. No. 1,402,361; Jan. 3.
- Shingle, Butt-end interlocking composition. H. G. Hose. No. 1,415,175; May 9.
- Shingle cutter, Strip. H. Abraham. No. 1,415,758; May 9.
- Shingle, Flexible. A. A. Griswold. No. 1,427,154; Aug. 29.
- Shingle, Flexible. A. A. Griswold. No. 1,427,732; Aug. 29.
- Shingle, Flexible. H. MacInnes. No. 1,436,813; Nov. 28.
- Shingle, Folding. G. B. Ferguson. No. 1,410,903; Mar. 28.
- Shingle gauge. I. Bonnell. No. 1,405,393; Feb. 7.
- Shingle holder. C. C. Harter. No. 1,410,060; Mar. 21.
- Shingle, Interlocking. H. Abraham. No. 1,410,867; Mar. 28.
- Shingle laying, Device for facilitating. H. Barclay. No. 1,433,772; Oct. 31.
- Shingle-machine spur roll ratchet. A. G. Dehlin. No. 1,428,362; Sept. 5.
- Shingle, Metallic. O. P. Greenstreet. No. 1,432,999; Oct. 24.
- Shingle mold. J. M. Van Houten. No. 1,416,079; May 16.
- Shingle, Sheet-metal. S. Thompson. No. 1,434,166; Oct. 31.
- Shingle-simulating roofing strips, Making. O. D. McFarland. (Reissue.) No. 15,489; Nov. 14.
- Shingle, Strip. H. Abraham. (Reissue.) No. 15,280; Feb. 7.
- Shingle strip. A. S. Speer. No. 1,412,295; Apr. 11.
- Shingle strip, Hinged. G. B. Ferguson. (Reissue.) No. 15,439; Aug. 29.
- Shingle strips, Machine for making. F. C. Overbury. (Reissue.) No. 15,328; Apr. 4.
- Shingling gauge. F. Collins and D. D. McCormack. No. 1,405,760; Feb. 7.
- Shingling straight edges, Support clamp for. A. Christensen. No. 1,435,698; Nov. 14.
- Shingles, Apparatus for the manufacture of tapered asphalt. B. C. Beckman and A. O. Herzog. No. 1,412,828; Apr. 18.
- Shingles, Machine for making. R. W. Jagenburg. No. 1,415,649; May 9.
- Shingles, Making strip. O. K. Outman. No. 1,426,497; Aug. 22.
- Shingles, Producing flexible. H. MacInnes. No. 1,431,476; Oct. 10.
- Shingles to roofs, Means for securing. J. A. Topping. No. 1,430,338; Sept. 26.
- Ship. A. F. Hamacek. No. 1,405,684; Feb. 7.
- Ship. M. F. Hill. No. 1,405,844; Feb. 7.
- Ship. F. F. Leparmentier. No. 1,406,659; Feb. 14.

Alphabetical list of inventions—Continued.

- Ship. C. C. West. No. 1,430,708; Oct. 3.
 Shipbuilding, Batten mold particularly for use in. I. C. G. Cooper. No. 1,428,942; Sept. 12.
 Ship-cable shot, Manufacturing weldless stud-link. W. B. Cowles. No. 1,431,442; Oct. 10.
 Ship-centering device. R. N. Burbank. No. 1,407,375; Feb. 21.
 Ship construction. C. Ahola. No. 1,416,155; May 16.
 Ship construction, Scaffold for. D. McLeod. No. 1,409,559; Mar. 14.
 Ship, Detecting the course of a. H. A. Orr. No. 1,406,218; Feb. 14.
 Ship for submarine navigation. W. M. Le Moyne. No. 1,426,882; Aug. 22.
 Ship for transporting raw products. H. Greffenius. No. 1,422,354; July 11.
 Ship-hull construction. J. Duthie, sr. No. 1,425,243; Aug. 8.
 Ship-indicating-device, Sunken. G. Czeperko. No. 1,416,336; May 16.
 Ship-launching device. F. Furlong. No. 1,440,350; Dec. 26.
 Ship or barge, Oil-carrying. W. A. Ebsen. No. 1,410,287; Mar. 21.
 Ship propulsion, Electric. C. Macmillan. No. 1,419,874; June 13.
 Ship propulsion, Electric. J. Martin and F. H. Clough. No. 1,417,342; May 23.
 Ship-propulsion system. F. H. Clough. No. 1,411,987; Apr. 4.
 Ship propulsion, System of. W. Sykes. No. 1,425,615; Aug. 15.
 Ship propulsion, System of electric. W. J. Belsey. No. 1,434,671; Nov. 7.
 Ship protection. H. J. W. Fay. No. 1,416,950; May 23.
 Ship protector. J. G. Smith. No. 1,433,243; Oct. 14.
 Ship-salvaging apparatus. J. M. Adams. No. 1,404,921; Jan. 31.
 Ship signaling apparatus. P. S. Grierson and S. N. Mead. No. 1,405,839; Feb. 7.
 Ship structure. J. H. Lindroos. No. 1,417,260; May 23.
 Shipping and dispensing box. M. E. Chapin. No. 1,416,448; May 16.
 Shipping case. H. R. Bliss. No. 1,414,067; Apr. 25.
 Shipping case. H. R. Bliss. No. 1,430,149; Sept. 26.
 Shipping case. A. D. Childs and R. A. Turrel. No. 1,411,406; Apr. 4.
 Shipping case. V. L. Krannert. No. 1,417,533; May 30.
 Shipping case. H. Rosenthal. No. 1,432,359; Oct. 17.
 Shipping case. J. L. Walker. No. 1,437,574; Dec. 5.
 Shipping case and tray. J. B. Rhodes. No. 1,431,255; Oct. 10.
 Shipping case covers, Fastening device for. J. B. Hawley. No. 1,417,827; May 30.
 Shipping case for linotype composition. E. P. Cotterman. No. 1,409,153; Mar. 14.
 Shipping case, Knockdown metal. W. R. Hartley. No. 1,424,723; Aug. 1.
 Shipping-case-riveting machine. A. R. Havener. No. 1,407,859; Feb. 28.
 Shipping-case-sealing machine, Fiber-. O. L. Smith. No. 1,436,413; Nov. 21.
 Shipping case, Wooden. A. H. Godkevitch. No. 1,423,317; July 18.
 Shipping cases, Constructing fiber. H. R. Bliss. No. 1,430,151; Sept. 26.
 Shipping cases, Sealing fiber. H. R. Bliss. No. 1,430,148; Sept. 26.
 Shipping container. C. H. Crowell. No. 1,430,288; Sept. 26.
 Shipping container, Collapsible. N. K. Hunt. No. 1,424,099; July 25.
 Shipping device. R. H. Langford. No. 1,421,964; July 4.
 Shipping packages, Implement for binding. S. C. Cary. No. 1,431,098; Oct. 3.
 Shipping receptacle. C. P. Tolman. No. 1,420,463; June 20.
 Ships and aircraft, Apparatus for maneuvering. E. S. G. Rees. No. 1,415,705; May 9.
 Ship's boat-lowering mechanism and other purposes, Winch for. J. H. R. Mace. No. 1,406,570; Feb. 14.
 Ship's davit. D. Vanderwal. No. 1,430,516; Sept. 26.
 Ships, Electrical propulsion of. A. Aichele. No. 1,408,426; Mar. 7.
 Ships from collisions, etc., Means for protecting. S. Shelly. No. 1,402,258; Jan. 3.
 Ships, Hauling up plant for. F. Duwe. No. 1,433,706; Oct. 31.
 Ship's light. T. Utley. No. 1,429,379; Sept. 19.
 Ship's log. B. Chernikoff. No. 1,421,405; July 4.
 Ship's log. C. M. Christensen. No. 1,403,894; Jan. 17.
 Ships, Method of and apparatus for raising sunken. A. Allan. No. 1,421,887; July 4.
 Ships, Method of and apparatus for raising sunken. D. Diamantides. No. 1,430,957; Oct. 3.
 Ships, Tonnage recorder for. S. P. Bahnsen. No. 1,409,914; Mar. 21.
 Ships under assumed loads, Apparatus for graphically ascertaining the stability and trim of. S. B. Ralston. No. 1,426,103; Aug. 15.
 Ships, Water-tight ventilator for. J. K. Chun Fat. No. 1,414,560; May 2.
 Shirt. P. H. Nolting. No. 1,417,101; May 23.
 Shirt and neckband construction. J. Layden. No. 1,427,744; Aug. 29.
 Shirt bosom and body machine. C. H. Boyuls. (Re-issue.) No. 15,395; July 4.
 Shirt protector. J. A. Gemmill. No. 1,433,198; Oct. 24.
 Shirts, Pressing. C. L. Braley. No. 1,429,401; Sept. 19.
 Shock absorber. C. E. Arneson. No. 1,434,243; Oct. 31.
 Shock absorber. A. R. Arnot. No. 1,413,451; Apr. 18.
 Shock absorber. A. R. Arnot. No. 1,419,098; June 6.
 Shock absorber. N. Athanassion. No. 1,413,373; Apr. 18.
 Shock absorber. C. W. Bishop. No. 1,425,831; Aug. 15.
 Shock absorber. W. G. Black. No. 1,436,079; Nov. 21.
 Shock absorber. C. C. Blackmore. No. 1,435,799; Nov. 14.
 Shock absorber. A. Blossom. No. 1,416,782; May 23.
 Shock absorber. O. F. Blyburg. No. 1,423,904; July 25.
 Shock absorber. R. W. Boswell. No. 1,409,819; Mar. 14.
 Shock absorber. C. H. Brown. No. 1,425,834; Aug. 15.
 Shock absorber. W. A. Buis. No. 1,436,147; Nov. 21.
 Shock absorber. O. E. Burgoon. No. 1,424,983; Aug. 8.
 Shock absorber. J. P. Burke. No. 1,432,529; Oct. 17.
 Shock absorber. E. Cinquini. No. 1,438,696; Dec. 12.
 Shock absorber. W. B. Coburn. No. 1,419,614; June 13.
 Shock absorber. R. V. Converse. No. 1,415,799; May 9.
 Shock absorber. G. J. Corporon. No. 1,437,291; Nov. 28.
 Shock absorber. E. O. Crank. No. 1,407,640; Feb. 21.
 Shock absorber. E. A. de Voss. No. 1,433,192; Oct. 24.
 Shock absorber. E. R. Draver. No. 1,412,461; Apr. 11.
 Shock absorber. C. J. Ford. No. 1,435,058; Nov. 7.
 Shock absorber. W. G. Fritz. No. 1,426,058; Aug. 15.
 Shock absorber. R. S. Fulton. No. 1,423,225; Sept. 5.
 Shock absorber. W. H. Gaines. No. 1,419,838; June 13.
 Shock absorber. C. M. Garland. No. 1,405,912; Feb. 7.
 Shock absorber. H. E. Gleason. No. 1,433,812; Oct. 31.
 Shock absorber. J. W. Gooch. No. 1,439,307; Dec. 19.
 Shock absorber. R. M. Gruss. No. 1,424,721; Aug. 1.
 Shock absorber. R. H. Hassler. No. 1,420,098; June 20.
 Shock absorber. G. H. Hayes. No. 1,437,416; Dec. 5.
 Shock absorber. P. H. Hendrickson. No. 1,437,417; Dec. 5.
 Shock absorber. G. E. Higgins. No. 1,404,956; Jan. 31.
 Shock absorber. P. J. Holmes and A. J. La Montague. No. 1,410,253; Mar. 21.
 Shock absorber. A. C. Hopkins. No. 1,418,712; June 6.
 Shock absorber. J. M. Kerr. Nos. 1,417,175-9; May 23.
 Shock absorber. J. M. Kerr. Nos. 1,419,629-31; June 13.
 Shock absorber. J. Konigsberg. No. 1,423,946; July 25.
 Shock absorber. J. Konigsberg. No. 1,427,480; Aug. 29.
 Shock absorber. V. Krefl. No. 1,408,892; Mar. 7.
 Shock absorber. E. S. Lehr. No. 1,423,667; July 25.
 Shock absorber. F. J. Macklin. No. 1,420,047; June 20.
 Shock absorber. E. McClintock. No. 1,404,458; Jan. 24.
 Shock absorber. D. F. McMahon. No. 1,410,940; Mar. 28.
 Shock absorber. P. Montgomery. No. 1,439,433; Dec. 19.
 Shock absorber. K. Mickley. No. 1,421,977; July 4.
 Shock absorber. H. B. Morgan. No. 1,423,006; July 18.
 Shock absorber. L. H. Orreich. No. 1,414,094; Apr. 25.
 Shock absorber. J. F. O'Connor. Nos. 1,421,819-20; July 4.
 Shock absorber. W. Parfrey. No. 1,433,296; Oct. 24.
 Shock absorber. P. Petri. No. 1,405,937; Feb. 7.
 Shock absorber. A. C. Ree. No. 1,434,024; Oct. 31.
 Shock absorber. R. Ragsdale. No. 1,427,327; Aug. 29.
 Shock absorber. R. Ragsdale. No. 1,427,414; Aug. 29.
 Shock absorber. O. Samad. No. 1,402,967; Jan. 10.
 Shock absorber. F. L. Spring. No. 1,429,699; Sept. 19.
 Shock absorber. W. T. Schrum and E. Krantz. No. 1,426,013; Aug. 15.
 Shock absorber. A. B. Shultz. No. 1,426,115; Aug. 15.
 Shock absorber. B. Smartt. No. 1,419,320; June 13.
 Shock absorber. F. A. Smith. No. 1,409,600; Mar. 14.
 Shock absorber. J. T. Smith. S. S. Wilkins, and J. M. Manning. No. 1,418,484; June 6.
 Shock absorber. W. E. Snaman. No. 1,424,783; Aug. 8.
 Shock absorber. W. G. Struthers. No. 1,437,868; Dec. 5.
 Shock absorber. G. H. Triplehorn. No. 1,428,306; Sept. 5.
 Shock absorber. B. G. von Roeder and E. C. Oates. No. 1,437,371; Nov. 28.
 Shock absorber. S. A. Watson. No. 1,439,209; Dec. 19.
 Shock absorber. W. L. Walker. No. 1,417,002; May 23.
 Shock absorber. C. A. Wiberg. No. 1,416,537; May 16.
 Shock absorber and rebound snubber for vehicle springs, Combined. G. J. Oltsh. No. 1,429,367; Sept. 19.
 Shock absorber and spring support, Combined. F. F. Keeler, Sr. No. 1,419,268; June 13.
 Shock absorber and stabilizer. R. B. Morse. No. 1,405,541; Feb. 7.
 Shock-absorber attachment. S. V. Gramlich. No. 1,439,098; Dec. 19.
 Shock absorber for automobiles. F. W. Johnstone. No. 1,437,146; Nov. 28.
 Shock absorber for automobiles. E. F. McCarthy. No. 1,434,017; Oct. 31.
 Shock absorber for motor cars and other suspended vehicles. E. Derihon. No. 1,435,053; Nov. 7.
 Shock absorber for motor vehicles. F. A. Dolezal. No. 1,438,301; Dec. 12.
 Shock absorber for motor vehicles. J. H. Taylor. No. 1,438,507; Dec. 12.
 Shock absorber for seats. C. A. Olson and O. S. Kallman. No. 1,411,372; Apr. 4.
 Shock absorber for vehicles. W. R. Cochran. No. 1,425,176; Aug. 8.

Alphabetical list of inventions—Continued.

- Shock-absorber mechanism. G. H. Irwin. No. 1,417,918; May 30.
- Shock absorber, Spring. C. A. and V. B. Wiberg. No. 1,406,706; Feb. 14.
- Shock absorber, Vehicle. E. Rimailho. No. 1,409,781; Mar. 14.
- Shock-absorber wheel. J. G. Tamplin. No. 1,432,805; Oct. 24.
- Shock-absorbing apparatus. T. A. Gannon. No. 1,407,745; Feb. 28.
- Shock-absorbing device for roll crushers. G. E. Krider. No. 1,409,869; Mar. 14.
- Shock-absorbing mechanism. J. F. O'Connor. No. 1,407,882; Feb. 28.
- Shock-absorbing mechanism. W. E. Symons. No. 1,440,320; Dec. 26.
- Shock-absorbing mechanism, Friction. W. A. Geiger. No. 1,429,581; Sept. 19.
- Shock-absorbing mechanism, Friction. W. A. Geiger. No. 1,438,303; Dec. 12.
- Shock-absorbing mechanism, Friction. G. Q. Lewis. No. 1,403,175; Jan. 10.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. No. 1,405,620; Feb. 7.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. Nos. 1,421,821-2; July 4.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. Nos. 1,429,687-8; Sept. 19.
- Shock absorbing mechanism, Friction. J. F. O'Connor. No. 1,431,324; Oct. 10.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. Nos. 1,433,293-4; Oct. 24.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. No. 1,436,284; Nov. 21.
- Shock-absorbing mechanism, Friction. J. F. O'Connor. No. 1,439,376; Dec. 19.
- Shock-absorbing spring suspension device. L. Hottel. No. 1,439,626; Dec. 19.
- Shock-absorbing stabilizing device for automobiles. P. A. Weigel. No. 1,439,346; Dec. 19.
- Shock and hay loader. H. R. Ennis. No. 1,431,640; Oct. 10.
- Shock-forming machine. F. McCann. No. 1,429,603; Sept. 19.
- Shock indicator. N. A. Palmgren. No. 1,438,462; Dec. 12.
- Shock loader. T. R. Harrington. No. 1,429,032; Sept. 12.
- Shock snubber. W. A. Anglemeyer. No. 1,405,813; Feb. 7.
- Shocker. C. Christiansen. No. 1,413,966; Apr. 25.
- Shoe. I. Barshatsky. No. 1,413,888; Apr. 25.
- Shoe. M. F. Brogan. No. 1,412,838; Apr. 18.
- Shoe. L. B. Carpenter. No. 1,436,696; Nov. 28.
- Shoe. D. W. Elias. No. 1,439,806; Dec. 26.
- Shoe. J. Hajek. No. 1,417,517; May 30.
- Shoe. J. J. Heys. No. 1,436,093; Nov. 21.
- Shoe. L. C. Kenton. No. 1,407,661; Feb. 21.
- Shoe. D. Koch. No. 1,419,676; June 13.
- Shoe. T. C. Lloyd. No. 1,427,607; Aug. 29.
- Shoe. E. Magaldi. No. 1,423,445; July 18.
- Shoe, Adjustable. G. W. Meyer and C. A. Roos. No. 1,415,602; May 9.
- Shoe and boot tree, Adjustable. E. Novitzky. No. 1,406,276; Feb. 14.
- Shoe and making it. G. Ferguson. No. 1,425,518; Aug. 15.
- Shoe and shoe-shank stiffener. F. E. Toothaker. No. 1,426,427; Aug. 22.
- Shoe and sole therefor. A. P. Kingston. No. 1,406,033; Feb. 7.
- Shoe attachment. W. Mittlestadt. No. 1,411,642; Apr. 4.
- Shoe attachment. P. A. Stephens. No. 1,413,196; Apr. 18.
- Shoe attachment. D. Tulkan. No. 1,435,765; Nov. 14.
- Shoe, Bathing. E. B. Stimpson. No. 1,433,309; Oct. 24.
- Shoe-beating machine. C. D. Foye. No. 1,426,372; Aug. 22.
- Shoe-blackening machine. S. M. Blunt. No. 1,430,786; Oct. 3.
- Shoe box, Trunk. J. P. Gibson. No. 1,420,920; June 27.
- Shoe boxings, Machine for making. R. P. Frye. No. 1,410,562; Mar. 28.
- Shoe, Brake. J. S. Thompson. No. 1,402,114-7; Jan. 3.
- Shoe-buttoning device. J. Szigethy. No. 1,423,782; July 25.
- Shoe-buttoning machine. L. J. Van Guelpren. No. 1,415,737; May 9.
- Shoe cleaner, Automatic. A. C. Gales. No. 1,420,375; June 20.
- Shoe-cleaning composition. A. J. Schultz. No. 1,439,915; Dec. 26.
- Shoe construction. E. E. Hosmer. No. 1,417,170; May 23.
- Shoe-counter flexor. W. J. Kappel. No. 1,424,166; Aug. 1.
- Shoe dressing, Composition for. P. Thoreson. No. 1,415,208; May 9.
- Shoe fastener. J. A. Dame. No. 1,405,974; Feb. 7.
- Shoe fastener. J. Eldridge. No. 1,425,245; Aug. 8.
- Shoe fastener. G. N. Goudy. No. 1,404,757; Jan. 31.
- Shoe fastener. R. Witlen. No. 1,409,327; Mar. 14.
- Shoe forms, Producing. E. Buckley and J. J. White. No. 1,412,815; Apr. 11.
- Shoe guard. J. Holmen. No. 1,428,232; Sept. 5.
- Shoe heel. T. Bibicos. No. 1,419,444; June 13.
- Shoe heel. A. Carlozzo. No. 1,418,428; June 8.
- Shoe heel. H. S. Crossman. No. 1,439,405; Dec. 19.
- Shoe heel. F. P. Marx. No. 1,419,637; June 13.
- Shoe heel. J. M. Ranko. No. 1,418,094; May 30.
- Shoe holder. S. C. Pedersen and A. J. Nowakowski. No. 1,416,378; May 16.
- Shoehorn. I. O. Harms. No. 1,423,422; July 18.
- Shoehorn. H. E. Peck. No. 1,424,030; July 25.
- Shoehorn. E. W. Walter. No. 1,408,318; Feb. 28.
- Shoe-lace-cutting device. T. Naroda. No. 1,411,294; Apr. 4.
- Shoe-lace holder. J. E. Lowe. No. 1,413,859; Apr. 25.
- Shoe-lace tip. H. D. Chaffee. No. 1,402,341; Jan. 3.
- Shoe-lace-tipping tool. A. C. Jackson. No. 1,432,558; Oct. 17.
- Shoe-lacing means. S. Trawinski. No. 1,429,657; Sept. 19.
- Shoe laces, Machine for making. G. H. Armitage. No. 1,423,984; July 25.
- Shoe last. E. A. Eastman. No. 1,418,546; June 6.
- Shoe last, Expandable. C. Schevitz. No. 1,427,024; Aug. 22.
- Shoe-last-remodeling machine. O. Olson. No. 1,402,533; Jan. 3.
- Shoe lasts, Protecting. F. L. Morse. No. 1,421,980; July 4.
- Shoe machine. F. A. Reardon. No. 1,418,736; June 6.
- Shoe machine. F. E. Valois. No. 1,425,558; Aug. 15.
- Shoemakers, Bench tool for. E. Di Leo. No. 1,438,366; Dec. 12.
- Shoemaker's double last. W. Borkowski. No. 1,431,625; Oct. 10.
- Shoemaker's jack. J. A. Strange. No. 1,405,875; Feb. 7.
- Shoemaker's jack. G. O. Terry. No. 1,414,055; Apr. 25.
- Shoemaker's repair outfit. F. Grochal and J. Otreha. No. 1,417,900; May 30.
- Shoemaking, Pattern for. J. P. Petrarca. No. 1,425,278; Aug. 8.
- Shoe manufacture. S. C. Wilson. No. 1,424,745; Aug. 1.
- Shoe plate. M. M. West. No. 1,418,894; June 6.
- Shoe-polish container and holder. L. J. Nelson. No. 1,402,948; Jan. 10.
- Shoe polish, Making. A. Mach. No. 1,432,707; Oct. 17.
- Shoe polisher and brush, Combined. R. J. Hartman. No. 1,437,177; Nov. 28.
- Shoe-polishing apparatus. R. V. Rickcord. No. 1,411,935; Apr. 4.
- Shoe-polishing appliance. F. V. Roberts. No. 1,436,607; Nov. 21.
- Shoe-polishing device. J. Bauer. No. 1,415,510; May 9.
- Shoe-polishing device. M. Ewaszczyszyn. No. 1,437,231; Nov. 28.
- Shoe-polishing device. F. H. Schlottmann. No. 1,429,642; Sept. 19.
- Shoe-polishing machine. M. Belville. No. 1,430,430; Sept. 26.
- Shoe-polishing machine. S. Giandalia. No. 1,420,540; June 20.
- Shoe-polishing machine. J. G. Hamilton. No. 1,404,759; Jan. 31.
- Shoe-polishing stand. A. L. Aste. No. 1,435,271; Nov. 14.
- Shoe-polishing stand. J. L. Bender. No. 1,438,687; Dec. 12.
- Shoe, process and making same, and shoe-part fastener. F. E. Valois. No. 1,419,998; June 20.
- Shoe protector. R. H. Anderson. No. 1,403,474; Jan. 17.
- Shoe rack. J. R. Green, F. S. Williams, and J. A. Lavallée. No. 1,432,591; Oct. 17.
- Shoe rack. F. Mathews. No. 1,414,163; June 13.
- Shoe rack. B. Moore. No. 1,405,539; Feb. 7.
- Shoe rack. W. H. Smith. No. 1,404,555; Jan. 24.
- Shoe rack and making it. H. L. Glidden. No. 1,419,250; June 13.
- Shoe-rack stabilizer. G. E. Turner. No. 1,407,181; Feb. 21.
- Shoe rest. E. S. Hecht. No. 1,416,823; May 23.
- Shoe-ripping machine. C. S. Norden. No. 1,410,590; Mar. 28.
- Shoe sandal sole. J. P. Steele. No. 1,428,123; Sept. 5.
- Shoe-sewing machine. F. E. Bertrand. No. 1,405,264; Jan. 31.
- Shoe-shank-forming tool. C. R. Towle. No. 1,408,913; Mar. 7.
- Shoe-shaping machine. C. M. Bradford and R. C. Simmons. No. 1,427,778; Sept. 5.
- Shoe-shaping machine, Turned-. M. Brock. No. 1,402,208; Jan. 3.
- Shoe-shining machine. L. Chambers. No. 1,419,018; June 6.
- Shoe-shining machine. J. A. Parent. No. 1,415,689; May 9.
- Shoe-shining machine. J. Smythe. No. 1,421,597; July 4.
- Shoe-shining outfit. B. Morgan. No. 1,405,059; Jan. 31.
- Shoe-shining parlor. D. D. Wolfe. No. 1,421,646; July 4.
- Shoe, Snow and mud. A. V. Melin. No. 1,411,740; Apr. 4.
- Shoe sole. G. Ferguson. No. 1,425,517; Aug. 15.
- Shoe sole. P. Jones. No. 1,422,716; July 11.
- Shoe sole and heel protector, Metal. J. H. Kindsvater. No. 1,427,742; Aug. 29.
- Shoe-sole die. A. Madson. No. 1,418,317; June 6.
- Shoe-sole pad. S. A. Gizzi. No. 1,409,704; Mar. 14.
- Shoe sole, Wooden. G. Krasnovsky. No. 1,433,210; Oct. 24.
- Shoe-stand attachment. J. A. Smith. No. 1,412,200; Apr. 11.
- Shoe stiffeners, Softening. J. L. McClellan. No. 1,408,816; Mar. 7.

Alphabetical list of inventions—Continued.

- Shoe stretcher. A. B. Elmstrom. No. 1,428,423; Sept. 5.
 Shoe stretcher. H. Waters. No. 1,429,661; Sept. 19.
 Shoe stretcher and tree, Combined. A. B. Elmstrom. No. 1,415,537; May 9.
 Shoestrapping clamp for shoes. R. D. Nelson. No. 1,412,256; Apr. 11.
 Shoe-string-tips. R. F. Schiller. No. 1,421,999; July 4.
 Shoe tongue, Nonslipping. G. Badich. No. 1,419,199; June 13.
 Shoe-toe-softening machine. R. A. Koepke. No. 1,425,981; Aug. 15.
 Shoe tread. J. E. Masters. No. 1,433,902; Oct. 31.
 Shoe-treating apparatus. J. B. Hadaway. No. 1,410,470; Mar. 21.
 Shoe-treating machine. J. H. Rigby. No. 1,412,894; Apr. 18.
 Shoe tree. G. A. Brady. No. 1,402,712; Jan. 3.
 Shoe-tree. J. N. Mayhew. No. 1,437,735; Dec. 5.
 Shoe-tree. A. R. Selden. No. 1,439,488; Dec. 19.
 Shoe upper and finishing the edges thereof. F. W. Merri-
 cke. No. 1,406,673; Feb. 14.
 Shoe-upper closure. J. Stano. No. 1,431,847; Oct. 10.
 Shoe uppers, Mechanism for use in shaping. M. Brock. No. 1,407,321; Feb. 21.
 Shoe uppers, Mechanism for use in shaping. A. F. Little-
 field. No. 1,439,009; Dec. 19.
 Shoes and other articles of leather and cloth, White
 dressing for. J. Burmeister. No. 1,432,440; Oct. 17.
 Shoes, Apparatus for attaching uppers to soles in the
 manufacture of. A. Bates. No. 1,426,343; Aug. 22.
 Shoes, Apparatus for relasting. H. Morin. No. 1,429,157;
 Sept. 12.
 Shoes, Arch support for. H. B. Northrop. No. 1,437,991; Dec. 5.
 Shoes, Binder for use in lasting. C. F. Pym. No. 1,415,951; May 16.
 Shoes, Detachable sole for. P. G. Knizek. No. 1,406,657; Feb. 14.
 Shoes, Device for use in repairing. E. E. Close. No. 1,412,270; Apr. 11.
 Shoes, Device for use in turning heel portions of molded-
 counter turned. F. E. Toothaker. No. 1,405,531;
 Feb. 7.
 Shoes during toe softening, Protecting. J. B. Hadaway.
 No. 1,429,237; Sept. 19.
 Shoes, Fastening device for. H. L. Conger. No. 1,408,563; Mar. 7.
 Shoes, Foot-measuring device for fitting. A. N. Canfield.
 No. 1,430,794; Oct. 3.
 Shoes, Guard sole for. A. M. Gluck. No. 1,404,600;
 Jan. 24.
 Shoes, Heel retainer for low. A. M. Carrel. No. 1,408,721; Mar. 7.
 Shoes, Ice creeper for. J. Dicarlo. No. 1,439,873;
 Dec. 26.
 Shoes, Inner sole for arch-supporting. W. A. Knipe. No. 1,425,263; Aug. 8.
 Shoes, Machine for operating on. J. H. Pope. No. 1,431,980; Oct. 17.
 Shoes, Making. A. Bates. No. 1,419,201; June 13.
 Shoes, Making. A. Bates. No. 1,419,203; June 13.
 Shoes, Making. M. Brock. No. 1,406,337; Feb. 14.
 Shoes, Making. W. G. Cheney. No. 1,432,533; Oct. 17.
 Shoes, Making. B. Jorgensen. No. 1,413,588; Apr. 25.
 Shoes, Making. F. N. La Chapelle. No. 1,412,082;
 Apr. 11.
 Shoes, Making. H. E. Martin. No. 1,405,530; Feb. 7.
 Shoes, Making. C. F. Pym. No. 1,406,280; Feb. 14.
 Shoes, Making. S. C. Wilson. No. 1,421,347; June 27.
 Shoes, Making soles for turned. A. A. Somerville. No. 1,405,453; Feb. 7.
 Shoes, Manufacture of turned. W. H. Taylor. No. 1,408,043; Feb. 28.
 Shoes, Metallic heel for. I. Barshatsky. No. 1,413,889;
 Apr. 25.
 Shoes, Metallic heel for. B. Prebluda. No. 1,439,443;
 Dec. 19.
 Shoes, Method for use in the manufacture of. J. Brunell.
 No. 1,418,359; June 6.
 Shoes, Method of making turn. M. L. Dodge. No. 1,430,157; Sept. 26.
 Shoes on lasts, Machine for mounting. C. O. Normandy.
 No. 1,430,025; Sept. 26.
 Shoes, Protector for. E. M. Bush and P. Brown. No. 1,440,337; Dec. 26.
 Shoes, Repair tip for. N. D'Andrea. No. 1,422,543;
 July 11.
 Shoes, Shank piece for. B. Ross. No. 1,430,190; Sept. 26.
 Shoes, etc., Stapling device for. J. M. Levinson. No. 1,421,265; June 27.
 Shoes, Stiffening material for. G. W. Bernauer. No. 1,426,538; Aug. 22.
 Shoes to button shoes, Means for converting lace. P. A. Weigel. No. 1,428,619; Sept. 12.
 Shoes, Wetting and wringing machine for box-toe doublers
 in. E. C. Kane. No. 1,424,914; Aug. 8.
 Shook holder. O. S. Cook. No. 1,411,413; Apr. 4.
 Shopping bag. I. Bertin. No. 1,432,150; Oct. 17.
 Shopping bag. J. Thaw. No. 1,428,617; Sept. 12.
 Shopper's bag. W. H. Knipe. No. 1,418,001; May 30.
 Shore, Adjustable. W. L. Church. No. 1,426,359;
 Aug. 22.
 Shoring device. W. H. Morrow. No. 1,409,755; Mar. 14.
 Short-circuiting device, Centrifugally-actuated. J. H. Garcelon and J. L. Chantemerle. No. 1,425,639; Aug. 15.
 Shortening agent. C. Ellis. No. 1,429,573; Sept. 19.
 Shortening agent and making same, Dry. H. V. Dunham.
 No. 1,432,057; Oct. 17.
 Shortening agent and making same, Pulverulent. H. V. Dunham. No. 1,431,938; Oct. 17.
 Shortening mixer. M. E. Geiger. No. 1,417,985; May 30.
 Shoulder brace. R. A. Williams and A. J. Wagner. No. 1,406,795; Feb. 14.
 Shoulder-strap holder. H. G. and G. B. Hoffman. No. 1,410,306; Mar. 21.
 Shovel. W. Coulson. No. 1,430,797; Oct. 3.
 Shovel. E. Hanff. No. 1,411,570; Apr. 4.
 Shovel. M. E. Shingler. No. 1,411,195; Mar. 28.
 Shovel. A. Thompson and J. Atkinson. No. 1,407,237;
 Feb. 21.
 Shovel. J. P. Walter. No. 1,438,881; Dec. 12.
 Shovel. I. J. Wisoff. No. 1,434,240; Oct. 31.
 Shovel. C. H. Wolfe. No. 1,405,653; Feb. 7.
 Shovel attachment. J. F. Adam. No. 1,426,442; Aug. 22.
 Shovel cleaner. A. M. Roat. No. 1,419,987; June 20.
 Shovel dipper, Steam-. A. M. Gow. No. 1,402,491; Jan. 3.
 Shovel handles, Reinforcement for. L. E. Webster. No. 1,410,943; Mar. 21.
 Shovel or scoop. E. W. Doyle. No. 1,427,523; Aug. 29.
 Shovel, Power. E. J. Armstrong. No. 1,439,216; Dec. 19.
 Shovel, Power. C. H. Wolfe. No. 1,405,652; Feb. 7.
 Shovel, Power truck-ballast. J. Maxwell. No. 1,407,559;
 Feb. 21.
 Shovel, Rope-thrusting. W. Ferris and S. R. W. M. Bager. No. 1,430,298; Sept. 26.
 Shoveling machine. H. B. Dennis. No. 1,414,398; May 2.
 Shoveling machine dipper. A. K. Mitchell. No. 1,418,321;
 June 6.
 Shovels, Engine trip for steam. C. A. Chancellor, L. G. McMannama, and C. E. Houghton. No. 1,430,942;
 Oct. 3.
 Shovels, Safety device for steam. L. Trower. No. 1,436,737; Nov. 28.
 Showcard, calendar, and the like. W. J. Anderson. No. 1,421,367; July 4.
 Show case. E. L. Chapman. No. 1,431,371; Oct. 10.
 Show case. L. W. Lapham. No. 1,435,013; Nov. 7.
 Show case. G. Strong. No. 1,425,347; Aug. 8.
 Show case construction, Glass. E. A. Ihrl. No. 1,410,919;
 Mar. 28.
 Show case, Dispensing. J. V. Tobey. No. 1,412,983;
 Apr. 18.
 Shower-bath apparatus. C. S. Slatcher. No. 1,402,974;
 Jan. 10.
 Shower-bath chair. H. E. Thibadore. No. 1,406,779;
 Feb. 14.
 Shredded or finely-divided materials, Extracting soluble
 matters from. W. C. Graham. No. 1,437,801; Dec. 5.
 Shutter, Flexible or rolling metallic. E. R. Probert. No. 1,437,947; Dec. 5.
 Shutter, Focal-plane. J. Tessier. No. 1,411,675; Apr. 4.
 Shutter holder, Nonrattling. J. L. Crossett. No. 1,410,893; Mar. 28.
 Shutter lift. H. H. Daniels. No. 1,417,595; May 30.
 Shutter slat. C. C. Tomkinson. No. 1,406,303; Feb. 14.
 Shuttle. L. Pavia. No. 1,439,322; Dec. 19.
 Shuttle. C. K. Suydam. No. 1,409,793; Mar. 14.
 Shuttle. D. Thorsteinson. No. 1,411,136; Mar. 28.
 Shuttle attachment. H. L. Fonner. No. 1,423,099;
 July 18.
 Shuttle-box-operating mechanism. E. W. Keough. No. 1,426,392; Aug. 22.
 Shuttle embroidery machine. G. Sieber. No. 1,419,317;
 June 13.
 Shuttle mechanism. F. E. Valois. No. 1,418,752;
 June 6.
 Shuttle tension device. A. B. Gloor. No. 1,409,705;
 Mar. 14.
 Shuttle-thread package. A. T. Huser. No. 1,408,202;
 Feb. 28.
 Shuttle-throwing mechanism. C. H. Stralucke. No. 1,419,776; June 13.
 Shuttles, Self-threading slub catcher for automatic. R. Pluemacher. No. 1,439,442; Dec. 19.
 Shuttles, Self-threading thread-tension device for. E. Six. No. 1,436,783; Nov. 28.
 Shuttles, Self-threading thread-tension device for. E. Six. No. 1,438,559; Dec. 12.
 Shuttles, Tensioning device for. A. R. Meeks. No. 1,428,445; Sept. 5.
 Sickle. W. F. Purdy. No. 1,428,657; Sept. 12.
 Sickle. G. L. Rogers. No. 1,430,470; Sept. 26.
 Sickle-blade holder. A. J. Adamek. No. 1,434,644;
 Nov. 7.
 Sickle, Chain. G. E. Wilson. No. 1,409,507; Mar. 14.
 Side cars to motor cycles, Coupling for connecting. W. F. Grew. No. 1,417,822; May 30.
 Side frame. R. V. Sage and J. J. McGarrigle. No. 1,431,687; Oct. 10.
 Side-frame and journal-box construction. W. F. Kiesel, jr. No. 1,433,380; Oct. 24.
 Side-wing and sunshade supporting bracket. J. P. Callahan. No. 1,433,934; Oct. 31.
 Sieve. W. J. Johnson. No. 1,421,245; June 27.
 Sieve, Adjustable. F. M. Forgeson. No. 1,430,636; Oct. 3.
 Sieve, Flour. M. Heald. No. 1,427,810; Sept. 5.

Alphabetical list of inventions—Continued.

- Sieve, Multiple flour. M. J. Harris. No. 1,403,028; Jan. 10.
- Sieve shaker. B. Stankovich. No. 1,422,230; July 11.
- Sieves or floors, Apparatus for making wire. P. Booth. No. 1,407,184; Feb. 21.
- Sifter. M. D. Brown. No. 1,416,260; May 16.
- Sifter. E. G. Dalton. No. 1,420,412; June 20.
- Sifter. K. M. Dokoff. No. 1,438,905; Dec. 12.
- Sifter. J. Riemenschneider. No. 1,409,578; Mar. 14.
- Sifter. H. H. Sparks. No. 1,439,273; Dec. 19.
- Sifter. C. G. Thompson. No. 1,407,601; Feb. 21.
- Sifter. C. Werner. No. 1,416,145; May 16.
- Sifter, Ash. G. Kabureck. No. 1,425,488; Aug. 8.
- Sifter, Ash. M. Kamenstein. No. 1,415,575; May 9.
- Sifter, Ash. P. Mischke. No. 1,421,809; July 4.
- Sifter, Ash. L. G. Neumar. No. 1,439,436; Dec. 19.
- Sifter, Ash. R. A. Thiede. No. 1,422,011; July 4.
- Sifter attachment, Flour-. C. Rude. No. 1,427,643; Aug. 29.
- Sifter can. J. C. Gibbs. No. 1,433,544; Oct. 31.
- Sifter, Dustless ash. J. Maiera. No. 1,417,849; May 30.
- Sifter, Flour. G. L. Adelman. No. 1,438,884; Dec. 12.
- Sifter, Flour. C. Braun. No. 1,437,958; Dec. 5.
- Sifter, Flour. J. Brewer. No. 1,429,565; Sept. 19.
- Sifter, Flour. B. Cmeyla. No. 1,417,035; May 23.
- Sifter for furnaces, Ash. H. V. Vrooman. No. 1,433,313; Oct. 24.
- Sifter, Shovel. J. Paxton. No. 1,432,119; Oct. 17.
- Sifter sock. L. T. Severson. No. 1,439,714; Dec. 26.
- Sifter top. H. W. Jones. No. 1,429,590; Sept. 19.
- Sifter top, Disintegrator. H. W. Jones. No. 1,429,591; Sept. 19.
- Sifter, Wet-sand. H. Griffoul. No. 1,430,443; Sept. 26.
- Sifting apparatus. H. F. Peeper. No. 1,411,979; Apr. 4.
- Sifting device. M. Mendel. No. 1,402,520; Jan. 3.
- Sifting device, Ash-. F. H. Lehman. No. 1,403,469; Jan. 10.
- Sight, Grade. E. J. Benoist. No. 1,424,613; Aug. 1.
- Sighting device. J. W. Harkom. No. 1,440,291; Dec. 26.
- Sign. J. C. Bell. No. 1,429,273; Sept. 19.
- Sign. D. J. Dooley and T. Nilan. No. 1,404,100; Jan. 17.
- Sign. J. P. Fox. No. 1,433,127; Oct. 24.
- Sign. V. Guardino. No. 1,426,983; Aug. 22.
- Sign. J. D. and H. Haggard. No. 1,413,849; Apr. 25.
- Sign. C. W. G. Hannah. No. 1,403,772; Jan. 17.
- Sign. C. W. G. Hannah. No. 1,417,519; May 30.
- Sign. J. A. Jones. No. 1,403,788; Jan. 17.
- Sign. A. E. Kline. No. 1,419,863; June 13.
- Sign. G. C. Lowenthal. No. 1,428,698; Sept. 12.
- Sign. A. H. Meinig. No. 1,407,944; Feb. 28.
- Sign. P. H. Miner. No. 1,418,012; May 30.
- Sign. W. D. Taylor. No. 1,412,147; Apr. 11.
- Sign. W. A. Townsend. No. 1,439,040; Dec. 19.
- Sign. E. P. Vincent. No. 1,421,044; June 27.
- Sign. L. E. Wise. No. 1,413,248; Apr. 15.
- Sign, Advertising. L. P. Linden. No. 1,412,692; Apr. 11.
- Sign, Advertising. N. Mollet. No. 1,421,022; June 27.
- Sign, Advertising display. N. J. Steinar. No. 1,436,365; Nov. 21.
- Sign and advertising device. T. Sapp. No. 1,425,142; Aug. 8.
- Sign and its supports. W. J. Wark. No. 1,422,502; July 11.
- Sign and number, Luminous. A. F. and R. A. Wirsching. No. 1,407,345; Feb. 21.
- Sign and the like. C. W. Hawthorne. No. 1,426,475; Aug. 22.
- Sign and the like, Advertising display. H. Raff. No. 1,437,194; Nov. 28.
- Sign, Animated. R. M. Craig. No. 1,428,007; Sept. 5.
- Sign, Animated. G. R. Pyper. Nos. 1,403,630-31; Jan. 17.
- Sign, Automatic display. E. H. McGee. No. 1,430,394; Sept. 26.
- Signboard. C. E. Knouff. No. 1,407,548; Feb. 21.
- Signboards, Mounting for sheet-metal. F. M. Wagner and J. H. Matthews. No. 1,431,199; Oct. 10.
- Sign bracket, Adjustable. C. C. Hardesty. No. 1,405,842; Feb. 7.
- Sign carrier. J. D. Austin and T. Roberts. No. 1,422,911; July 18.
- Sign, Changeable. J. P. Cosgrove and W. J. O'Neill. No. 1,411,416; Apr. 4.
- Sign, Changeable. T. Keller. No. 1,411,439; Apr. 4.
- Sign, Changeable. T. Keller. (Reissue.) No. 15,454; Sept. 12.
- Sign, Changeable. C. Moore. No. 1,428,390; Sept. 5.
- Sign, Changeable. J. D. Tollenaar. No. 1,410,853; Mar. 28.
- Sign, Changeable-character reversible. S. I. Atwater. No. 1,432,519; Oct. 17.
- Sign, Changeable illuminated. S. W. Kolk. No. 1,410,194; Mar. 21.
- Sign, Compositing. R. E. Colomy. No. 1,433,532; Oct. 31.
- Sign construction, Stationary-. W. B. Fink. No. 1,414,350; May 2.
- Sign, Display. M. Cole. No. 1,429,408; Sept. 19.
- Sign, Electric. K. Limpert. No. 1,436,270; Nov. 21.
- Sign, Electric advertising. O. Fehler. No. 1,428,424; Sept. 5.
- Sign, Electric flasher. F. J. Reichmann. No. 1,407,805; Feb. 28.
- Sign, Electrical. A. C. Heiny. No. 1,438,306; Dec. 12.
- Sign exhibitor, Automatic. W. W. Jones and L. Klein. No. 1,403,032; Jan. 10.
- Sign exhibitor, Rotary. W. J. Selby and J. Gilbert. No. 1,431,433; Oct. 10.
- Sign fastener or nail. A. R. Schoen. No. 1,434,027; Oct. 31.
- Sign flasher. J. C. Arnold. No. 1,430,612; Oct. 3.
- Sign flasher. J. H. Wheelock. No. 1,428,499; Sept. 5.
- Sign for conveyances, Illuminated. G. R. McDonald. No. 1,430,823; Oct. 3.
- Sign for roadsides. H. J. Arnold. No. 1,406,916; Feb. 14.
- Sign gate. A. T. Barnes. No. 1,412,769; Apr. 11.
- Sign, Highway. H. A. Sheets. No. 1,410,414; Mar. 21.
- Sign holder. A. C. Gideon. No. 1,430,980; Oct. 3.
- Sign, Illuminated. C. B. Ehnborn. No. 1,406,626; Feb. 14.
- Sign, Illuminated. W. F. Herterich and W. G. Neubeck. No. 1,406,646; Feb. 14.
- Sign, Illuminated. J. Hotchner. No. 1,429,077; Sept. 12.
- Sign, Illuminated. E. T. R. Murray. No. 1,440,096; Dec. 26.
- Sign, Illuminated. A. W. Stewart and F. J. Bonk. No. 1,432,263; Oct. 17.
- Sign, Illuminated moving. S. W. Kolk. No. 1,402,075; Jan. 3.
- Sign letter and frame. A. M. Knauber. No. 1,408,210; Feb. 28.
- Sign, Luminous. H. C. Heaton. No. 1,436,092; Nov. 21.
- Sign, Moving colored-shed and flash-light. G. E. McMaster. No. 1,410,489; Mar. 21.
- Sign or advertisement, Illuminated. W. J. Beville. No. 1,430,147; Sept. 26.
- Sign repeater, Advertising-. E. U. Down. No. 1,439,697; Dec. 26.
- Sign, Reversible. C. A. Feters. No. 1,418,144; May 30.
- Sign, Road. D. E. Shrauger. No. 1,439,982; Dec. 26.
- Sign, Roadside. G. W., and E. Traub. No. 1,429,805; Sept. 19.
- Sign, Self-righting desk. C. Zimmerli. No. 1,420,603; June 20.
- Sign support. G. H. Power. No. 1,408,636; Mar. 7.
- Sign units, Pressing mechanism for. W. F. Heeren. No. 1,417,993; May 30.
- Sign, Wind-motor. W. L. Hudson. No. 1,440,149; Dec. 26.
- Sign, Windshield parking. A. J. Seitz. No. 1,436,410; Nov. 21.
- Sign with interchangeable characters. A. A. Urness. No. 1,428,723; Sept. 12.
- Signs and notice boards, Means for setting up loose-letters. T. M. Evens. No. 1,413,266; Apr. 18.
- Signs, Apparatus for manufacturing painted. W. J. Fraser. No. 1,426,830; Aug. 22.
- Signs, Controller or flasher for electric. D. W. Grazier. No. 1,402,927; Jan. 10.
- Signs, Holder frame for interchangeable. C. W. Manning. No. 1,432,480; Oct. 17.
- Signs, Making. A. M. Knauber. No. 1,428,334; Sept. 5.
- Signs or similar articles, Means for supporting. H. M. Stanton. No. 1,421,603; July 4.
- Signal. See—
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| Air signal. | Railway crossing signal. |
| Auto direction signal. | Railway-crossing-gate signal. |
| Auto signal. | Signal. |
| Auto theft signal. | Railway signal. |
| Automobile signal. | Rear automobile signal. |
| Automobile direction signal. | Safety signal. |
| Automobile rear signal. | Spotlight signal. |
| Automobile theft signal. | Switchboard signal. |
| Automobile traffic signal. | Theft signal. |
| Danger signal. | Tire signal. |
| Direction signal. | Tire-deflation signal. |
| Direction-indicating signal. | Torpedo railway signal. |
| Electric gas-light signal. | Totalizer clear signal. |
| Ice-pan signal. | Traffic signal. |
| Illuminated signal. | Vehicle signal. |
| Mail-box signal. | Vehicle spotlight signal. |
| Motor-vehicle signal. | Visual telegraph signal. |
| Pneumatic-tire-deflation signal. | Warning signal. |
- Signal. M. B. Armitage. No. 1,421,141; June 27.
- Signal. H. M. Browne. No. 1,438,576; Dec. 12.
- Signal. G. Cartasso. No. 1,410,163; Mar. 21.
- Signal. E. F. Collins. No. 1,412,451; Apr. 11.
- Signal. J. A. Des Rosiers and M. W. Webb. No. 1,409,135; Mar. 7.
- Signal. A. L. Eliel. No. 1,410,392; Mar. 21.
- Signal. J. M. Jones. No. 1,439,554; Dec. 19.
- Signal. G. R. Marsico. No. 1,416,224; May 16.
- Signal. V. R. Rindt. No. 1,421,990; July 4.
- Signal. G. P. Springfield. No. 1,435,749; Nov. 14.
- Signal. A. E. Wittig. No. 1,418,346; June 6.
- Signal and alarm system. C. J. Rohland and J. H. Wheelock. No. 1,439,761; Dec. 26.
- Signal apparatus. A. Poirier. No. 1,439,576; Dec. 19.
- Signal apparatus. W. T. Tabb. No. 1,424,859; Aug. 8.
- Signal apparatus from false colored signals, Method and apparatus for protecting. C. H. Kelsea. No. 1,421,249; June 27.
- Signal-controlling apparatus. W. M. Chapman. No. 1,428,532; Sept. 12.
- Signal-controlling system. C. A. Sprague. No. 1,439,771; Dec. 26.

Alphabetical list of inventions—Continued.

- Signal device. T. H. S. Cone. No. 1,434,096; Oct. 31.
 Signal device. J. T. McGrath. No. 1,415,595; May 9.
 Signal device. J. M. Mele. No. 1,428,045; Sept. 5.
 Signal device. F. J. Metzger. No. 1,437,436; Dec. 5.
 Signal device. P. G. Myers. No. 1,411,888; Apr. 4.
 Signal device. J. E. Sumpter. No. 1,433,311; Oct. 24.
 Signal device, Automatic speed-. A. M. Echternach. No. 1,433,989; Oct. 31.
 Signal flag. W. D. Carrington. No. 1,420,967; June 27.
 Signal-flag support. J. M. Conley. No. 1,435,807; Nov. 14.
 Signal for highways. W. E. Stamm. No. 1,409,477; Mar. 14.
 Signal-governing apparatus. A. I. Woodring. No. 1,412,990; Apr. 18.
 Signal-governing apparatus. A. I. Woodring. No. 1,417,124; May 23.
 Signal-governing apparatus. A. I. Woodring. No. 1,419,435; June 13.
 Signal-indicator system. H. C. Eigabroadt. No. 1,422,349; July 11.
 Signal light. S. Katz. No. 1,431,821; Oct. 10.
 Signal machine. G. B. Brewer. No. 1,430,489; Sept. 26.
 Signal-reading ribbons, Stamping machine for. W. Dougall. No. 1,414,939; May 2.
 Signal-receiving system. B. Bradbury. No. 1,430,883; Oct. 3.
 Signal-transmitting system. H. S. Osborne. No. 1,405,428; Feb. 7.
 Signaling apparatus. J. W. Kennedy. No. 1,421,251; June 27.
 Signaling apparatus. D. R. Lovejoy. No. 1,413,748; Apr. 25.
 Signaling apparatus. J. M. Roberts. No. 1,420,618; June 20.
 Signaling apparatus. W. M. Rolph. No. 1,406,494; Feb. 14.
 Signaling apparatus. S. P. Shackleton. No. 1,411,385; Apr. 4.
 Signaling apparatus. F. W. Wood. No. 1,419,708; June 13.
 Signaling apparatus. A. I. Woodring. No. 1,430,273; Sept. 26.
 Signaling apparatus and circuits. J. F. Toomey. No. 1,431,995; Oct. 17.
 Signaling apparatus and circuits. J. F. Toomey. No. 1,437,457; Dec. 5.
 Signaling apparatus and circuits. J. F. Toomey. No. 1,439,772; Dec. 26.
 Signaling apparatus, Semaphore. W. H. Millar. No. 1,435,543; Nov. 14.
 Signaling device. F. M. Baldwin. No. 1,438,010; Dec. 5.
 Signaling device. E. Cowles. No. 1,435,632; Nov. 14.
 Signaling device. J. Francisco. No. 1,437,643; Dec. 5.
 Signaling device. C. F. Gilbert. No. 1,425,586; Aug. 15.
 Signaling device. L. S. Keilholtz. No. 1,421,953; July 4.
 Signaling device. A. C. Keppeler. No. 1,431,669; Oct. 10.
 Signaling device. G. Roscoe. No. 1,407,822; Feb. 28.
 Signaling device. H. W. Ryder. No. 1,434,795; Nov. 7.
 Signaling device. H. C. Schmidt and C. C. Sheppard. No. 1,403,267; Jan. 10.
 Signaling device. R. G. Smith. No. 1,417,419; May 23.
 Signaling in fluid systems. E. F. Bliss. No. 1,413,313; Apr. 18.
 Signaling machines, Reading ribbon in. W. Dougall. No. 1,422,842; July 18.
 Signaling mechanism. C. E. Beach. No. 1,422,523; July 11.
 Signaling mechanism. A. E. Saner. No. 1,438,463; Dec. 12.
 Signaling method and apparatus. D. G. McCaa. No. 1,423,345; July 18.
 Signaling, Submarine. G. F. Atwood. No. 1,432,945; Oct. 24.
 Signaling, Submarine. H. C. Harrison. No. 1,409,841; Mar. 14.
 Signaling system. E. H. Armstrong. No. 1,424,065; July 25.
 Signaling system. W. H. Bendernagel. No. 1,431,091; Oct. 3.
 Signaling system. T. W. Case. No. 1,412,385; Apr. 11.
 Signal system. H. C. Ford. No. 1,420,030; June 20.
 Signaling system. A. N. Goldsmith. No. 1,404,756; Jan. 31.
 Signal system. W. P. Gregory. No. 1,408,190; Feb. 28.
 Signaling system. K. S. Johnson. No. 1,435,240; Nov. 14.
 Signaling system. H. S. Osborne. No. 1,406,998; Feb. 21.
 Signaling system. W. A. Rhodes. No. 1,412,490; Apr. 11.
 Signaling system. J. P. Rodman. No. 1,405,005; Jan. 31.
 Signaling system. F. M. Slough. No. 1,408,540; Mar. 7.
 Signaling system. J. B. Taylor. No. 1,410,626; Mar. 28.
 Signaling system, Electric. S. B. Hess. No. 1,429,243; Sept. 19.
 Signaling system for single-track roads. S. N. Wight. No. 1,427,882; Sept. 5.
 Signaling system, Multiplex. H. S. Osborne. No. 1,429,248; Sept. 19.
 Signaling system, Subterranean. L. de Forest. No. 1,424,806; Aug. 8.
 Signaling systems, Pipe carrier for. J. M. Murphey. No. 1,402,435; Jan. 3.
 Signaling systems, Receiving device for. W. H. Martin. No. 1,413,753; Apr. 25.
 Signals and advertisements on water surfaces, Producing visible. H. Jünghans and F. Glogauer. No. 1,428,639; Sept. 12.
 Signals, Electrical switch for mechanical. P. H. Wolnardt. No. 1,413,249; Apr. 18.
 Signals having several positions, Controlling device for. V. Cesar. No. 1,418,127; May 30.
 Signals, Indication means for light. L. F. Howard. No. 1,429,141; Sept. 12.
 Signals, Method and apparatus for receiving sustained wave. A. N. Goldsmith. Nos. 1,432,455-6; Oct. 17.
 Signature-conveyer support. M. Christensen. No. 1,418,865; June 6.
 Silage cover. B. B. Perkins. No. 1,429,624; Sept. 19.
 Silencer. W. T. Pearcy. No. 1,422,373; July 11.
 Silicate of soda, Furnace for producing. W. H. Stanton. No. 1,425,551; Aug. 15.
 Silicates, Extraction of soluble potassium compounds from potassium-containing. W. Glaeser. No. 1,409,139; Mar. 7.
 Silicon and nitrogen, Production of compounds containing. F. Von Bichowsky. No. 1,415,280; May 9.
 Silk, Apparatus employed in the manufacture of artificial. J. Clayton. No. 1,406,153; Feb. 7.
 Silk, Apparatus for and method of manufacturing artificial. J. Clayton. No. 1,429,127; Sept. 12.
 Silk, Apparatus for spinning artificial. J. Clayton. No. 1,425,368; Aug. 8.
 Silk, Composition for the treatment of artificial. C. A. Snyder. No. 1,423,041; July 18.
 Silk, Device for throwing washing and reeling spooled artificial. R. Sinkwitz. No. 1,427,238; Aug. 29.
 Silk-doubling machine. T. Hunt and E. Stetler. No. 1,414,131; Apr. 25.
 Silk, Drying artificial. E. Bronnert. No. 1,437,491; Dec. 5.
 Silk fibers, Treating. S. A. Waksman. No. 1,432,312; Oct. 17.
 Silk in presence of vat-dyed silk, Degumming raw. H. Bernhard and O. Jaec. No. 1,409,653; Mar. 14.
 Silk machines, Automatic regulator for artificial. G. Juer. No. 1,407,280; Feb. 21.
 Silk, Manufacture of artificial. E. Bronnert. No. 1,422,412; July 11.
 Silk, Manufacture of artificial. E. Bronnert. No. 1,426,953; Aug. 22.
 Silk or the like, Process and apparatus for the manufacture of artificial. W. P. Dreaper. No. 1,437,340; Nov. 28.
 Silk, Spinning box for artificial. J. Clayton. Nos. 1,417,455-6; May 23.
 Silk to be dyed black, Weighting or charging. A. W. Schmid. No. 1,417,206; May 23.
 Silk, Water-driven spinning cup device for artificial. A. Lehner. No. 1,437,899; Dec. 5.
 Silk yarn, Expanding the cross section of spun-. S. Sakane. No. 1,413,193; Apr. 18.
 Silo. T. Dean. No. 1,406,942; Feb. 14.
 Silo. M. Herndl. No. 1,437,657; Dec. 5.
 Silo. E. C. Hodges. No. 1,428,168; Sept. 5.
 Silo. O. A. Stoen. No. 1,425,346; Aug. 8.
 Silo. G. W. Wetzel. No. 1,416,534; May 16.
 Silo and constructing the same. C. M. B. Boos. No. 1,438,030; Dec. 5.
 Silo and erecting silos. B. B. Vorse. No. 1,418,216; May 30.
 Silo fillers, Corn-snapping mechanism for. G. F. Norton and E. A. Ende. No. 1,423,138; July 18.
 Silo-reinforcing structure. F. J. Van Cott. No. 1,431,272; Oct. 10.
 Silo roof. A. D. W. Johnson. No. 1,425,860; Aug. 15.
 Silver alcosols, Production of organic. J. Altwegg. No. 1,413,151; Apr. 18.
 Silver from photographic and other baths, Process of and means for recovering. N. B. Aukerman. No. 1,425,935; Aug. 15.
 Silver, gold, platinum, etc., Method and means for cleaning. W. W. Everts. No. 1,416,403; May 16.
 Sine angle plate. S. Karasick. No. 1,409,343; Mar. 14.
 Single-phase motor. C. A. M. Weber. No. 1,433,765; Oct. 31.
 Singletree. R. S. Mattingly. No. 1,411,501; Apr. 4.
 Singletree. J. M. Moore. No. 1,424,255; Aug. 1.
 Sink, Extension. J. M. Stewart. No. 1,406,426; Feb. 14.
 Sink fitting. T. H. Ferris. No. 1,436,027; Nov. 21.
 Sink lining. M. A. Brady. No. 1,406,147; Feb. 7.
 Sink-top structure. O. J. Galassi. No. 1,412,398; Apr. 11.
 Sink water-stop plug, Kitchen-. F. C. Grover. No. 1,428,228; Sept. 5.
 Sinks, Attachment for. F. Dabney. No. 1,411,684; Apr. 4.
 Sinks, Splash guard for. J. J. Leighton. No. 1,408,812; Mar. 7.
 Sinker, Floating. J. W. Bond. No. 1,408,927; Mar. 7.
 Sintering or agglomerating metalliferous substances, Apparatus for. A. S. Dwight. No. 1,433,350; Oct. 24.
 Siphon-control device. A. W. Brater. No. 1,416,603; May 16.
 Siphon, Double-knee. F. Moras. No. 1,421,531; July 4.
 Siphon spillway. G. F. Sticknev. No. 1,405,071; Jan. 31.
 Siphon support. H. D. Sterrick. No. 1,439,031; Dec. 19.
 Siren. E. W. Erick. No. 1,428,684; Sept. 12.
 Siren or foghorn. O. H. Svensson. No. 1,427,034; Aug. 22.

- Sirup and water, Dispensing apparatus for mixing. J. H. Spohn. No. 1,435,883; Nov. 14.
- Sirup cooler. T. Werner. No. 1,419,337; June 13.
- Sirup, Making sorghum. A. Hinton. No. 1,403,412; Jan. 10.
- Sirup tins, Lid for. J. F. Wright. No. 1,402,559; Jan. 3.
- Sirups and molasses, Preservation in storage of. W. L. Owen. No. 1,418,457; June 6.
- Sizer and grader. A. M. O'Quinn. No. 1,429,764; Sept. 19.
- Sizing, Beater. H. M. Wheelwright. No. 1,430,045; Sept. 26.
- Sizing machine, Sweet-potato-. C. H. Evans. No. 1,403,597; Jan. 17.
- Skate. C. B. Drevitson. No. 1,405,981; Feb. 7.
- Skate and wheel therefor, Roller. O. W. Boche. No. 1,428,210; Sept. 5.
- Skate-attaching means. O. J. St. Pierre. No. 1,405,951; Feb. 7.
- Skate, Roller. E. E. Hardy. Nos. 1,406,641-4; Feb. 14.
- Skate, Roller. J. J. Jorgensen. No. 1,437,314; Nov. 28.
- Skate, Roller. J. Muck. No. 1,421,532; July 4.
- Skate, Roller. P. L. Ormiston. No. 1,402,010; Jan. 3.
- Skate-sharpener clamp. C. Rutstrum. No. 1,420,756; June 27.
- Skate, Snow. P. Barlow. No. 1,428,676; Sept. 12.
- Skate stand. S. Goerke. No. 1,435,387; Nov. 14.
- Skate, Water. T. Michalski. No. 1,413,602; Apr. 25.
- Skining machine. J. Clayton. No. 1,435,805; Nov. 14.
- Skid lift, Independent direct-acting. P. F. Lueth. No. 1,436,623; Nov. 21.
- Skids, Antifriction. G. L. Noll. No. 1,421,540; July 4.
- Skimmer. C. E. Chambers. No. 1,405,668; Feb. 7.
- Skins and hides, Unhairing. W. Rautenstrauch. No. 1,435,876; Nov. 14.
- Skins and leather, Machine for the treatment of. D. Mercier. No. 1,411,056; Mar. 28.
- Skins for stitching, Mechanism for preparing. L. Sartore. No. 1,435,503; Nov. 14.
- Skins, Machine for setting out and unhairing calf and goat. E. J. F. Quirin. No. 1,438,059; Dec. 5.
- Skins, Treating shark. A. Rogers. No. 1,412,968; Apr. 18.
- Skips, Means for closing and opening. F. Uhlig. No. 1,415,066; May 9.
- Skirt. H. Bender. No. 1,437,218; Nov. 28.
- Skirt. A. M. Smith. No. 1,419,990; June 20.
- Skirt, Athletic. A. Harmon. No. 1,422,441; July 11.
- Skirt gauge. S. Frank. No. 1,434,379; Nov. 7.
- Skirt hanger, Adjustable. N. J. Scofield. No. 1,410,411; Mar. 21.
- Skiving machine. H. R. Haggett. No. 1,430,077; Sept. 26.
- Skiving machines, Attachment for leather-. A. I. Foster and H. R. Lupien. No. 1,403,240; Jan. 10.
- Skylight. B. P. Blaski. No. 1,418,061; May 30.
- Skylight. S. J. Olshin. No. 1,429,968; Sept. 26.
- Skylight construction. S. E. Cibulas. No. 1,429,018; Sept. 12.
- Skylight lift. A. G. Pitz and O. X. Saur. No. 1,423,817; July 25.
- Skylight lift. A. G. Pitz and O. X. Saur. No. 1,432,357; Oct. 17.
- Skylight or ventilated roof. S. J. Olshin. No. 1,429,967; Sept. 26.
- Skylight, Ventilating. J. Sylvan. No. 1,427,175; Aug. 29.
- Skylight ventilator. P. Bologh. No. 1,421,154; June 27.
- Skylights, Adjustable illumination device for. L. X. Champeau. No. 1,419,918; June 20.
- Slab, Long-span. W. H. Ault. No. 1,431,086; Oct. 3.
- Slab, Monolithic flat. K. R. Schuster. No. 1,417,774; May 30.
- Slabs of compressed cork, Manufacture of. E. Hornstein. No. 1,407,655; Feb. 21.
- Slack adjuster. W. H. Sauvage. No. 1,411,872; Apr. 4.
- Slack adjuster. W. H. Sauvage. No. 1,414,671; May 2.
- Slack adjuster. W. H. Sauvage. No. 1,420,152; June 20.
- Slack adjuster. W. H. Sauvage. No. 1,429,640; Sept. 19.
- Slack adjuster. W. H. Sauvage. No. 1,431,048; Oct. 3.
- Slack adjuster. W. H. Sauvage. No. 1,435,261; Nov. 14.
- Slack adjuster, Automatic. H. A. Wahlert and J. E. Redford. No. 1,422,499; July 11.
- Slag, Casting. W. T. Hurst. No. 1,402,363; Jan. 3.
- Slag, Device for dry granulation of. F. Riedel. No. 1,404,142; Jan. 17.
- Slag, Obtaining granular. W. Schumacher. No. 1,416,060; May 16.
- Slag pocket. A. W. Smith. No. 1,427,862; Sept. 5.
- Slag, Recovery of metallic values from. H. V. Welch. No. 1,414,491; May 2.
- Slate, Treatment of. C. R. Hayward and H. M. Schleicher. No. 1,415,346; May 9.
- Sled. H. R. Berndt. No. 1,405,262; Jan. 31.
- Sled. M. J. Fitzgerald and J. A. Blank. No. 1,410,397; Mar. 21.
- Sled. A. C. Gilbert. No. 1,424,011; July 25.
- Sled. H. Hyndman. No. 1,417,172; May 23.
- Sled. W. Kautilia. No. 1,415,877; May 16.
- Sled. J. E. Matthews. No. 1,437,815; Dec. 5.
- Sled. H. Nilsson. No. 1,405,858; Feb. 7.
- Sled. A. L. Platte. No. 1,408,029; Feb. 28.
- Sled. M. Potkalicki. No. 1,407,888; Feb. 28.
- Sled. A. Roley. No. 1,411,808; Apr. 4.
- Sled. J. J. Slepicka. No. 1,435,343; Nov. 14.
- Sled. F. Stiller. No. 1,404,244; Jan. 24.
- Sled attachment. C. Metzger. No. 1,410,701; Mar. 28.
- Sled brake. W. S. Shiffer and V. L. Zwally. No. 1,429,648; Sept. 19.
- Sled, Coaster. R. A. Mack. No. 1,418,818; June 6.
- Sled, Combination. B. B. Martin. No. 1,404,990; Jan. 31.
- Sled, Hand. G. W. Lovett. No. 1,431,826; Oct. 10.
- Sled knee and spindle hub. W. Schoedl. No. 1,434,317; Oct. 31.
- Sled, Motor. G. A. Amburson. No. 1,419,483; June 13.
- Sled, Motor. G. E. Williams. No. 1,407,974; Feb. 28.
- Sled, Motor-driven. F. W. Denbrook. No. 1,422,751; July 11.
- Sledding, Sprag for. F. Pardee, jr., and M. R. van W. Lyon. No. 1,426,668; Aug. 22.
- Sleds, Roller attachment for. C. H. Meyer. No. 1,412,413; Apr. 11.
- Sleeping compartment, Collapsible. W. D. Shellady. No. 1,404,485; Jan. 24.
- Sleet cutter. G. S. and O. Moore. No. 1,418,389; June 6.
- Sleeve holder. S. Abe. No. 1,425,434; Aug. 8.
- Sleeve puller. T. Erickson. No. 1,403,754; Jan. 17.
- Sleigh. E. A. Halsey. No. 1,405,779; Feb. 7.
- Sleigh. F. B. Kouba. No. 1,413,738; Apr. 25.
- Sleigh brake. J. A. Abramchuk. No. 1,429,995; Sept. 26.
- Sleigh knee. A. Rockstad. No. 1,413,542; Apr. 18.
- Sleigh, Motor. P. A. Doyle. No. 1,404,101; Jan. 17.
- Sleigh, Motor. J. A. Lacasse. No. 1,420,267; June 20.
- Sleigh, Motor. K. A. Obach. No. 1,414,891; May 2.
- Sleigh, Motor. T. Rhoades. No. 1,409,408; Mar. 21.
- Sleighs or sleds, Wheel attachment for. G. J. Godin. No. 1,419,558; June 13.
- Slicer and grater. C. J. Milbradt. No. 1,414,297; Apr. 25.
- Slicer and grater, Rotary. J. M. Stelmach. No. 1,418,178; May 30.
- Slicer, Potato. W. J. Bussinger. No. 1,439,501; Dec. 19.
- Slicer, Vegetable. W. R. McClure. No. 1,429,896; Sept. 19.
- Slicer, Vegetable and fruit. C. L. Leonard. No. 1,402,777; Jan. 10.
- Slicing machine. W. C. Knapp. Nos. 1,417,843-4; May 30.
- Slicing machine. R. L. Pappy. No. 1,403,619; Jan. 17.
- Slicing machine. J. C. Prims. No. 1,403,564; Jan. 17.
- Slicing machine. R. E. Slayton. No. 1,419,418; June 13.
- Slicing machine. L. Spiselman. No. 1,418,104; May 30.
- Slicing machine. H. Stukart. No. 1,432,130; Oct. 17.
- Slicing machine, Boiled-potato-. R. S. Trynoski. No. 1,417,360; May 23.
- Slicing-machine knife guard. A. M. Quinton. No. 1,402,959; Jan. 10.
- Slicing-machine knives, Adjusting means for. P. J. Lucey. No. 1,428,291; Sept. 5.
- Slicing machine, Vegetable. V. Kesel. No. 1,406,194; Feb. 14.
- Slicing machines, Attachment for meat-. C. T. Zocher. No. 1,427,710; Aug. 29.
- Slicing machines, Knife guard for. P. J. Lucey. No. 1,428,292; Sept. 5.
- Slicing machines, Material holder for. A. M. Hill. No. 1,412,244; Apr. 11.
- Slicing machines, Material holder for. E. H. Williams. No. 1,404,821; Jan. 31.
- Slicing machines, Meat table for. W. F. H. Braun. No. 1,402,140; Jan. 3.
- Slicing machines, Table-feeding mechanism for. F. H. Lippincott. No. 1,439,476; Dec. 19.
- Slicing utensil. W. H. Prescott. No. 1,436,906; Nov. 28.
- Slide. C. S. Comstock, Sr. No. 1,404,741; Jan. 31.
- Sliding-door controller. J. Gullage. No. 1,411,625; Apr. 4.
- Sliding-door roller. A. Dowald. No. 1,414,630; May 2.
- Slimes, Dehydrating and recovering values from. M. A. Parmeter. No. 1,415,387; May 9.
- Sling for handling cargo and other goods. J. R. Clay. No. 1,427,724; Aug. 29.
- Sling, Shot-putting. G. B. Miles. No. 1,419,682; June 13.
- Slings to the hoisting means, Device for use in the attachment of. R. Morrison. No. 1,433,024; Oct. 24.
- Slipper. N. Garfinkle. No. 1,410,907; Mar. 28.
- Slippers, Blank for. M. Hirshfeld. No. 1,421,474; July 4.
- Slitters, Feeding device for. M. E. Widell. No. 1,418,117; May 30.
- Slitting casings, Tool for. J. G. Warner. No. 1,418,757; June 6.
- Sliver, Connection with balling machines for. L. G. Macintyre. No. 1,404,623; Jan. 24.
- Sliver-lap-feeding mechanism. L. G. Macintyre. No. 1,424,580; Aug. 1.
- Slot-closing device. F. W. Henricson. No. 1,437,418; Dec. 5.
- Slot closure. A. M. Lane. No. 1,429,040; Sept. 12.
- Slotting machine. L. E. Jolls. No. 1,434,615; Nov. 7.
- Slotting, shaping, milling, drilling, and like machine tools. H. and H. Butler, R. H. Hayhurst, and W. Alderson. No. 1,416,786; May 23.
- Slub catcher. F. Jarry. No. 1,422,271; July 11.
- Sludge, Dehydrating activated. C. L. Peck. No. 1,430,182; Sept. 26.
- Sludge-table block. F. Dunham. No. 1,419,830; June 13.
- Sludge treatment process and product. F. Salathe. No. 1,409,590; Mar. 14.
- Slug and rule, Printer's. W. E. Taylor. No. 1,406,104; Feb. 7.
- Slug guide. H. W. Partlow. No. 1,411,457; Apr. 4.

Alphabetical list of inventions—Continued.

- Slug stacker. W. E. Pressler. No. 1,415,471; May 9.
 Small arm comprising a striker sliding in a breech bolt. J. Declaye. No. 1,423,836; July 25.
 Smelting and electrolyzing process. R. Rodrian. No. 1,426,507; Aug. 22.
 Smelting furnace, Vertical. F. Fiechtl. No. 1,422,684; July 11.
 Smelting furnace, Vertical retort zinc-. A. Jones. No. 1,424,825; Aug. 8.
 Smelting ores or the like. L. H. Diehl. No. 1,431,877; Oct. 10.
 Smoke cleaner. G. Pappanikolaou. No. 1,404,998; Jan. 31.
 Smoke consumer. L. K. Flanagan. No. 1,421,200; June 27.
 Smoke-filtering medium. A. L. Clapp. No. 1,416,266; May 16.
 Smoke from foundry chimneys, Apparatus for cleaning and collecting. A. Rodriguez. No. 1,430,116; Sept. 26.
 Smoke-fuel attachment. J. H. Carmichael. No. 1,417,030; May 23.
 Smokehouse. E. Lorenzen. No. 1,413,671; Apr. 25.
 Smoke preventer, Tire-door. A. P. Harder and A. O. Olson. No. 1,431,949; Oct. 17.
 Smoke producer. A. M. Ahern. No. 1,438,351; Dec. 12.
 Smoke-ring blower. R. Toennes. No. 1,429,176; Sept. 12.
 Smoke-screen producer. J. H. Hammond, jr. No. 1,429,238; Sept. 19.
 Smoker's pipe. C. F. Guedel. No. 1,417,823; May 30.
 Smoker's set. L. B. Erwin and B. W. O'Connell. No. 1,430,539; Oct. 3.
 Smoker's table. J. Watson. No. 1,422,397; July 11.
 Smoking appliance. J. B. Garcia. No. 1,420,089; June 24.
 Smoking appliance. J. W. Miller. No. 1,433,468; Oct. 24.
 Smoking device. H. Gruen. No. 1,413,580; Apr. 25.
 Smoking pipe. G. A. Milkie. No. 1,428,446; Sept. 5.
 Smoking pipe. F. B. Stephenson. No. 1,413,298; Apr. 18.
 Smoking pipe. D. P. Stevens. No. 1,439,032; Dec. 19.
 Smoothing machine, Edge-. C. Brown. No. 1,415,785; May 9.
 Smudge pots, Device for lighting. W. D'A. Ryan. No. 1,405,011; Jan. 31.
 Smut-sheaf machines, Sectional smut sheet and crossbar for. J. E. Gilbert and G. W. Harris. No. 1,434,002; Oct. 31.
 Smut-sheating machine, Safety track for. J. E. Gilbert and G. W. Harris. No. 1,434,001; Oct. 31.
 Smut-sheating machines, Back-bar transfer mechanism for. J. E. Gilbert and G. W. Harris. No. 1,428,025; Sept. 5.
 Snap and slide fastener, Combined. T. Mayr. No. 1,403,802; Jan. 17.
 Snap button. V. Puc. No. 1,415,474; May 9.
 Snap buttons, Machine for making socket members of. W. Nelson. No. 1,432,083; Oct. 17.
 Snap catch. F. Street. No. 1,414,838; May 2.
 Snap fastener. A. R. Burrell. No. 1,408,073; Feb. 28.
 Snap fastener. H. H. Daniels. No. 1,404,014; Jan. 17.
 Snap fastener. P. S. Jones. No. 1,439,420; Dec. 19.
 Snap fastener. R. J. Mulvey. No. 1,402,006; Jan. 3.
 Snap fastener. R. J. Mulvey. No. 1,405,933; Feb. 7.
 Snap fastener. A. Rose. No. 1,439,025; Dec. 19.
 Snap-fastener container. G. Smith. No. 1,439,918; Dec. 26.
 Snap fastener, Pin-attached. E. M. Bates and M. Wheeler. No. 1,438,889; Dec. 12.
 Snap-fastener socket. D. Bourque. No. 1,432,600; Oct. 17.
 Snap-fastener top. G. F. Pullen. No. 1,426,100; Aug. 15.
 Snap-fastener-upsetting machine. T. F. Morris. No. 1,403,438; Jan. 10.
 Snap fasteners, Machine for making. H. H. Cannon. No. 1,436,476; Nov. 21.
 Snap fasteners, Machine for making. H. S. Normand. No. 1,429,088; Sept. 12.
 Snap fasteners, Machine for making. O. L. Smith and H. S. Normand. No. 1,431,990; Oct. 17.
 Snap fasteners, Machine for setting. A. Frankel. No. 1,415,330; May 9.
 Snap fasteners, Mechanism for sorting the socket members of. V. Puc. No. 1,421,715; July 4.
 Snap fasteners, Package for. L. J. Stern. No. 1,422,233; July 11.
 Snap fasteners, Socket member for. G. R. Upham. No. 1,407,687; Feb. 21.
 Snap gauge. B. H. Locke. No. 1,436,181; Nov. 21.
 Snap hook. A. A. Frechette. No. 1,436,390; Nov. 21.
 Snap hook. A. Maiden. No. 1,411,857; Apr. 4.
 Snap hook. W. H. Moore. No. 1,407,797; Feb. 28.
 Snap hook. J. R. Turner. No. 1,406,911; Feb. 14.
 Snap hook and assembling same. F. E. Scharrow. No. 1,406,419; Feb. 14.
 Snap switch. N. Feinen. No. 1,429,860; Sept. 19.
 Snap switch. L. Larsen. No. 1,417,751; May 30.
 Snap switch, Rotary. C. D. Platt. No. 1,402,888; Jan. 10.
 Snare. N. D. Fairbanks. No. 1,402,753; Jan. 10.
 Snatch block. R. Robeson and J. Lee. No. 1,428,118; Sept. 5.
 Snow disposal. J. A. Steinmetz. No. 1,418,337; June 6.
 Snow-disposal device. E. V. Crouse. No. 1,418,630; June 6.
 Snow eradicator. R. Richardson. No. 1,402,091; Jan. 3.
 Snow from roadways, Machine for removing. J. Le Tual. No. 1,410,582; Mar. 28.
 Snow leveler and packer. J. M. Le Valley. No. 1,416,533; May 16.
 Snow, Means and method of preparing artificial. C. O. Bosworth. No. 1,432,153; Oct. 17.
 Snow or dirt remover. A. Esposito. No. 1,430,962; Oct. 3.
 Snowplow. L. E. Adams and C. C. Peck. No. 1,432,377; Oct. 17.
 Snowplow. L. Bedford. No. 1,415,979; May 16.
 Snowplow. H. R. Canfield. No. 1,424,878; Aug. 8.
 Snowplow. E. Clayborne. No. 1,422,417; July 11.
 Snowplow. W. M. Day. No. 1,433,188; Oct. 24.
 Snowplow. M. Haupt. No. 1,421,225; June 27.
 Snowplow. G. C. Hawley. No. 1,438,111; Dec. 5.
 Snowplow. J. O. Johnson. No. 1,419,263; June 13.
 Snowplow. R. E. McConley. No. 1,406,993; Feb. 21.
 Snowplow. J. and F. Morica. No. 1,432,352; Oct. 17.
 Snowplow. L. Pagel. No. 1,407,947; Feb. 28.
 Snowplow. L. W. Rittenhouse. No. 1,406,897; Feb. 14.
 Snowplow. W. C. Speer. No. 1,428,615; Sept. 12.
 Snow plow and roller. J. W. Ouradnik. No. 1,436,286; Nov. 21.
 Snowplow, Dual rotary. J. C. Chladek. No. 1,421,671; July 4.
 Snowplow, Locomotive. M. A. Barber. No. 1,412,265; Apr. 11.
 Snow remover. H. D. Curtis. No. 1,413,007; Apr. 18.
 Snow remover. W. Y. Gambee. No. 1,412,804; Apr. 11.
 Snow remover. S. Quam. No. 1,404,140; Jan. 17.
 Snow-removing device. L. Kappertz. No. 1,435,476; Nov. 14.
 Snow-removing machine. J. D. Cocke. No. 1,420,522; June 20.
 Snow-removing machine. E. O. Loeber. No. 1,409,744; Mar. 14.
 Snow-removing machine. E. E. Ricks. No. 1,408,471; Mar. 7.
 Snowshoe. C. M. Drew. No. 1,407,645; Feb. 21.
 Snow vehicle. E. N. Rowe. No. 1,429,636; Sept. 19.
 Snubber. D. V. Boureau. No. 1,421,900; July 4.
 Snubber. F. H. Ream. No. 1,418,828; June 6.
 Snubbing machine. H. C. Currier. No. 1,429,930; Sept. 26.
 Soap. J. R. Milson. No. 1,430,099; Sept. 26.
 Soap. F. C. Simpson. No. 1,408,650; Mar. 7.
 Soap. A. O. Zink. Nos. 1,436,928-9; Nov. 28.
 Soap, Apparatus for the manufacture of. L. A. Paley. No. 1,413,870; Apr. 25.
 Soap, Automatic distributor of liquid. A. Robert. No. 1,408,921; Mar. 7.
 Soap-casting machine. R. H. Gripp and J. Pygeorge. No. 1,434,696; Nov. 7.
 Soap-chipping device. F. K. Newell. No. 1,436,721; Nov. 28.
 Soap composition and making same. E. G. Acheson. No. 1,419,952; June 20.
 Soap container. J. A. Schwantes. No. 1,436,827; Nov. 28.
 Soap container, Shaving-. J. Schwantes. No. 1,428,562; Sept. 12.
 Soap dispenser. F. E. Maddux. No. 1,412,883; Apr. 18.
 Soap-dispensing device. L. B. Schwarcz. No. 1,409,790; Mar. 14.
 Soap for use, Preparing. A. Voges. No. 1,438,199; Dec. 12.
 Soap holder. F. Meeks. No. 1,416,962; May 23.
 Soap holder, Buoyant. A. L. Stewart. No. 1,406,699; Feb. 14.
 Soap, Holder or container for tablets of. M. Bailly. No. 1,437,217; Nov. 28.
 Soap holder, strainer, and scoop. J. N. Dell. No. 1,419,545; June 13.
 Soap-holding brush. F. S. Brown. No. 1,423,992; July 25.
 Soap in water, Emulsification of resin. O. Kamm. No. 1,415,363; May 9.
 Soap, Machine relating to the manufacture and molding of. W. T. Calderwood. No. 1,409,925; Mar. 21.
 Soap manufacture, Cooling apparatus for use in. C. W. Couche and J. Kenyon. No. 1,437,339; Nov. 28.
 Soap, Manufacture of. T. M. Godfrey. No. 1,414,015; Apr. 25.
 Soap-packing machine. B. H. Becker and J. Ciesla. No. 1,439,395; Dec. 19.
 Soap, Preparing liquid. F. L. Emmert. No. 1,432,102; Oct. 17.
 Soap, Process and apparatus for manufacturing. E. M. Loveland. No. 1,416,483; May 16.
 Soap server, Liquid-. H. P. Upham. No. 1,412,428; Apr. 11.
 Soap sudser. A. A. Banks. No. 1,434,361; Nov. 7.
 Soaping device. J. Vaudreuil. No. 1,418,497; June 6.
 Sock or stocking and manufacturing same. P. Thierfelder. No. 1,404,702; Jan. 24.
 Socket. R. F. Armstrong. No. 1,408,157; Feb. 28.
 Socket. B. F. Kelley. No. 1,406,029; Feb. 7.
 Socket and resistance, Combination. A. H. Donahoe. No. 1,416,948; May 23.
 Socket-cover and lamp-ner light fixture, Combined. R. S. Aspinwall. No. 1,412,644; Apr. 11.
 Socket, Reversible-slip sucker-rod. A. H. Neilson. No. 1,433,146; Oct. 24.
 Socket, Slip. E. C. Immel. No. 1,428,094; Sept. 5.

Alphabetical list of inventions—Continued.

- Socket, Slip. C. P. Williams. No. 1,417,648; May 30.
 Socket-suspension means. M. Klein. No. 1,438,499; Dec. 12.
 Socket switch, Pull-. R. D. Smith. No. 1,421,853; July 4.
 Socket, Wire-line. R. O. Slater. No. 1,406,768; Feb. 14.
 Socket wrench. G. O. Leopold. No. 1,434,128; Oct. 31.
 Socket wrench. C. G. Palmer. No. 1,410,032; Mar. 21.
 Socket wrench. F. J. Quigley. No. 1,436,195; Nov. 21.
 Socket wrench. H. Schlutz. No. 1,432,263; Oct. 17.
 Socket wrench. O. C. Snell. No. 1,426,682; Aug. 22.
 Socket wrench, Adjustable. P. L. Fannen. No. 1,432,324; Oct. 17.
 Socket wrench, Combination. W. H. Gates. No. 1,428,840; Sept. 12.
 Socket wrench container. H. H. Chase. No. 1,438,900; Dec. 12.
 Socket wrench, Expansion-. H. A. Nutter. No. 1,438,391; Dec. 12.
 Sockets, Snap shade holder for electric. W. Jaeger. No. 1,406,649; Feb. 14.
 Soda or caustic potash, Continuous process for the manufacture of caustic. C. Deguide. No. 1,440,211; Dec. 26.
 Soda water draft arms, Plural-stream-distributing attachment for. C. R. Ragsdale. No. 1,408,397; Feb. 28.
 Sodium bicarbonate and hydrogen, Producing. A. Nagelvoort. (Reissue.) No. 15,314; Mar. 21.
 Sodium carbonate, Purifying. F. H. Merrill. No. 1,419,463; June 13.
 Sodium-carbonate sulphate from saline waters, Recovering. G. B. Burnham. No. 1,417,139; May 23.
 Sodium chromate, Manufacture of chromic oxide and sodium sulphide from. C. J. Head. No. 1,422,703; July 11.
 Sodium silicate, Making flaky. I. P. Lihme. No. 1,403,556; Jan. 17.
 Sodium sulphate, Apparatus for the production of. N. A. Laury. No. 1,435,930; Nov. 21.
 Softening machine. F. M. Furber. No. 1,409,164; Mar. 14.
 Soil inoculation, Composition of matter for and method of. W. B. Guy. No. 1,411,088; Mar. 28.
 Soil, Plumber's. A. W. Annert. No. 1,439,596; Dec. 19.
 Soil-pulverizing implement. J. F. Wagner. No. 1,420,351; June 20.
 Soil tiller. H. Schulze. No. 1,414,308; Apr. 25.
 Soil-tilling machine. C. C. Cook. No. 1,409,832; Mar. 14.
 Soil treatment, Process of and apparatus for. H. Knight and C. A. Brewer. No. 1,424,728; Aug. 1.
 Soil-working implement. B. H. De Mott. No. 1,428,880; Sept. 12.
 Solar heating device. M. E. Moreau. No. 1,424,932; Aug. 8.
 Solder, Fluxed. G. L. Van Allen. No. 1,429,703; Sept. 19.
 Soldering. J. Moreau. No. 1,426,311; Aug. 15.
 Soldering and depositing metals by the electric arc, Means for holding electrodes used in. E. H. Jones. No. 1,438,497; Dec. 12.
 Soldering composition. A. Tralhot. No. 1,417,428; May 23.
 Soldering device. A. W. Bjorkman. No. 1,422,917; July 18.
 Soldering flux. W. E. Wyatt. No. 1,435,780; Nov. 14.
 Soldering iron. N. B. Dorman. No. 1,430,958; Oct. 3.
 Soldering iron. H. F. Hammond. No. 1,422,357; July 11.
 Soldering iron. J. T. Peterson. No. 1,436,677; Nov. 28.
 Soldering iron. A. Plochocki. No. 1,429,626; Sept. 19.
 Soldering iron. A. G. Quiry. No. 1,416,508; May 16.
 Soldering iron. W. A. Timm. No. 1,430,603; Oct. 3.
 Soldering iron, Electric. W. A. Braun. No. 1,407,722; Feb. 28.
 Soldering iron, Electric. J. T. Griffin, W. A. Timm, and A. E. Santschi. No. 1,428,227; Sept. 5.
 Soldering iron, Electric. F. Kuhn and L. H. Thomas. No. 1,425,983; Aug. 15.
 Soldering iron, Electric. F. F. Quednow and G. J. Vokel. No. 1,431,039; Oct. 3.
 Soldering-iron heater. L. J. Fazendin. No. 1,411,333; Apr. 4.
 Soldering irons and the like, Apparatus for heating. C. H. Ryan. No. 1,436,461; Nov. 21.
 Soldering machine for can bodies, Side-seam-. J. Brenzinger. No. 1,419,211; June 13.
 Soldering of aluminum. A. Passalacqua. No. 1,402,644; Jan. 3.
 Soldering pot and soldering iron. O. A. Colby. No. 1,425,633; Aug. 15.
 Soldering solution. J. H. Gravell. No. 1,428,088; Sept. 5.
 Soldering tool. H. K. Austin. No. 1,427,770; Sept. 5.
 Soldering tool or implement. S. H. Dice. No. 1,406,621; Feb. 14.
 Sole. A. F. Littlefield. No. 1,417,535; May 30.
 Sole and heel frame. N. K. Hunt. No. 1,410,064; Mar. 21.
 Sole blanks, Apparatus for channeling. L. Streibel. No. 1,420,161; June 20.
 Sole-cutting machine. W. S. Shaw. No. 1,408,537; Mar. 7.
 Sole-evening machine. W. C. Stewart. No. 1,412,070; Apr. 11.
 Sole-fitting machine. A. E. Johnson. No. 1,426,391; Aug. 22.
 Sole-grooving machine. O. F. Armstrong. No. 1,417,018; May 23.
 Sole, Inner. S. Parisi. No. 1,402,375; Jan. 3.
 Sole-leveling machine. W. C. Baxter. No. 1,434,424; Nov. 7.
 Sole, Molded. M. Brown. No. 1,432,961; Oct. 24.
 Sole or heel plate. A. Macaluso. No. 1,406,401; Feb. 14.
 Sole, Pieced. C. S. Hill. No. 1,401,981; Jan. 3.
 Sole-pressing machine. C. C. Blake. No. 1,427,940; Sept. 5.
 Sole-protecting device. J. Cavanagh. No. 1,438,979; Dec. 19.
 Sole protector. W. H. Betts. No. 1,418,425; June 6.
 Sole protector. W. H. Betts. No. 1,428,072; Sept. 5.
 Sole, Shoe. J. F. Martin. No. 1,410,338; Mar. 21.
 Sole-softening machine, Leather-. J. L. Clevenger. No. 1,422,927; July 18.
 Sole tacker. C. F. Ziegler. No. 1,421,655; July 4.
 Sole-tempering box. C. M. Mellage. No. 1,417,090; May 23.
 Sole, Vulcanized. M. Brown. No. 1,428,356; Sept. 5.
 Soles, Cutting device for leather. G. O. Ferry. No. 1,422,901; July 18.
 Soles, Machine for cutting. E. L. Patten. No. 1,418,604; June 6.
 Soles, Making. F. E. Beckman. No. 1,434,521; Nov. 7.
 Solid materials with liquids, Method and apparatus for mixing. O. D. Cunningham. No. 1,422,421; July 11.
 Solid or liquid matter from a solution or semisolution containing same, Recovering. A. D. Fest. No. 1,414,562; May 2.
 Solids and liquids out of suspension in gases, Apparatus for settling finely-divided. M. C. Christensen. No. 1,434,090; Oct. 31.
 Solids, Apparatus for the countercurrent washing of finely-divided. N. C. Christensen. No. 1,434,089; Oct. 31.
 Solids from liquids, Apparatus for separating. C. Bouillon. No. 1,429,320; Sept. 19.
 Solids from liquids, Magnetic strainer apparatus for separating. E. B. Chapman. No. 1,425,366; Aug. 8.
 Solids from liquids, Separation of. W. Acton and W. M. MacKean. No. 1,435,886; Nov. 14.
 Soluble substances, Purification or extraction of. W. Broadbridge, E. Edser, and W. G. Sellers. No. 1,439,061; Dec. 19.
 Solutions by percolation, Apparatus and package for forming. J. B. Clermont. No. 1,412,388; Apr. 11.
 Solutions, Manufacture of concentrated. B. Junquera. No. 1,436,809; Nov. 28.
 Solvent recovery, etc., Adsorption apparatus for. R. R. Etter. No. 1,429,836; Sept. 19.
 Solvents and of recovering the latter, Separating extractive matters from solutions of mixtures of. H. Bollmann. No. 1,417,477; May 23.
 Solvents, Recovery of volatile. G. W. Coggeshall and T. M. Rector. No. 1,418,363; June 6.
 Soot blower. J. M. Colven and A. Lowy. No. 1,421,675; July 4.
 Soot collector. J. Bernstein. No. 1,412,334; Apr. 11.
 Soot in boiler tubes, Apparatus for blowing out. E. F. C. Hagedorn and H. P. Hansen. No. 1,416,708; May 23.
 Sorting device. C. C. Casey. No. 1,439,793; Dec. 26.
 Sorting machine. E. H. Ehrman. No. 1,411,169; Mar. 28.
 Sorting machine. L. L. Ladd. No. 1,432,762; Oct. 24.
 Sorting machine. A. Van Cott and J. Evans. No. 1,422,800; July 11.
 Sorting-machine elements, Apparatus for. C. T. Morey. No. 1,424,370; Aug. 1.
 Sorting or grading machine. W. A. Trescott. No. 1,438,673; Dec. 12.
 Sound amplifier. W. F. Luhnnow. No. 1,420,719; June 27.
 Sound amplifier. J. B. Mitchell. No. 1,408,761; Mar. 7.
 Sound amplifying and reproducing apparatus. C. Blieberger. No. 1,436,080; Nov. 21.
 Sound, Apparatus for recording, reproducing, and amplifying. C. Blieberger. No. 1,425,505; Aug. 15.
 Sound box. H. Berman. No. 1,423,707; July 25.
 Sound box. F. Cheney. No. 1,402,052; Jan. 3.
 Sound box. F. Cheney. No. 1,417,499; May 30.
 Sound box. H. J. Durborow. No. 1,426,970; Aug. 22.
 Sound box. E. Fletcher. No. 1,427,198; Aug. 29.
 Sound box. J. A. Lunden. No. 1,436,970; Nov. 28.
 Sound box. H. Y. Prendergast. No. 1,410,505; Mar. 21.
 Sound box. L. K. Scotford. No. 1,439,916; Dec. 26.
 Sound box. C. H. Shaw. No. 1,439,981; Dec. 26.
 Sound box. F. Stevens. No. 1,419,774; June 13.
 Sound box. J. H. Weber. No. 1,409,503; Mar. 14.
 Sound box and mounting therefor, Polyphone. J. Graham. No. 1,438,642; Dec. 12.
 Sound-box diaphragm. H. L. Tift. No. 1,423,368; July 18.
 Sound boxes, Diaphragm for. J. E. Robins and W. S. Slack. No. 1,419,943; June 20.
 Sound boxes, Stylus-bar mounting for. H. J. Durborow. No. 1,436,796; Nov. 28.
 Sound detection particularly adapted for coast defense. R. L. Williams. No. 1,411,948; Apr. 4.
 Sound post. J. W. McGrath, Jr. No. 1,408,707; Mar. 7.
 Sound producers, Diaphragm-actuating stud for. D. Sampson. No. 1,438,968; Dec. 19.
 Sound-producing device, Electromagnetic. F. J. and W. L. Kaehni. No. 1,426,743; Aug. 22.
 Sound-producing instrument. G. Virzi. No. 1,408,150; Feb. 28.

Alphabetical list of inventions—Continued.

- Sound-producing instrument operated by internal-combustion engines. G. Constantinesco. No. 1,409,081; Mar. 7.
- Sound-producing instruments, Diaphragm for. S. B. Williamson. No. 1,418,998; June 6.
- Sound-producing instruments, Expression device for. W. A. Johnson. No. 1,408,514; Mar. 7.
- Sound-receiving apparatus. W. L. Walker. No. 1,417,786; May 30.
- Sound record. C. C. Cook. No. 1,409,674; Mar. 14.
- Sound record. E. E. Novotny. No. 1,440,097; Dec. 26.
- Sound record and producing the same. V. H. Emerson. No. 1,416,342; May 16.
- Sound-record tablet, Multiple. C. H. Gill. No. 1,427,373; Aug. 29.
- Sound recording and reproducing instrument. W. E. Clifton and J. S. Ewart. No. 1,425,944; Aug. 15.
- Sound recording and reproducing machine. W. E. Birket. No. 1,422,022; July 4.
- Sound recording and reproducing machine. T. O. Loveland. No. 1,406,046; Feb. 7.
- Sound-recording apparatus. N. H. Holland. No. 1,420,317; June 20.
- Sound-recording process. A. J. Cawley. No. 1,420,304; June 20.
- Sound records, Means for indicating matter produced on. V. H. Emerson and R. B. Wheelan. No. 1,404,194; Jan. 24.
- Sound records, Manufacture of. A. F. Sykes. No. 1,428,819; Sept. 12.
- Sound records, Production of. A. F. Sykes. No. 1,428,818; Sept. 12.
- Sound records, Recording. H. L. Wadsworth. No. 1,421,045; June 27.
- Sound reproducer. E. Kuhn. No. 1,412,560; Apr. 11.
- Sound reproducer. F. Petmecky. No. 1,410,115; Mar. 21.
- Sound reproducer. M. S. Rankin. No. 1,430,185; Sept. 26.
- Sound reproducer. C. R. Shaw. No. 1,407,002; Feb. 21.
- Sound reproducer. M. J. Trumble. No. 1,432,139; Oct. 17.
- Sound reproducers, Apparatus for resetting. J. J. Riser. No. 1,421,568; July 4.
- Sound-reproducing apparatus, Automatic stop for. F. J. Frazee. No. 1,409,539; Mar. 14.
- Sound-reproducing device. W. L. Chamberlain. No. 1,407,928; Feb. 28.
- Sound-reproducing device. P. B. Delany. No. 1,415,807; May 9.
- Sound-reproducing diaphragm. P. B. Delany. No. 1,403,849; Jan. 17.
- Sound-reproducing machine. G. D. Adams. No. 1,435,095; Nov. 7.
- Sound-reproducing machine. W. T. Bovie. No. 1,411,472; Apr. 4.
- Sound-reproducing machine. F. Cheney. No. 1,407,781; Feb. 28.
- Sound-reproducing machine. C. L. Chisholm. No. 1,411,235; Mar. 28.
- Sound-reproducing machine. R. Mosmann. No. 1,438,712; Dec. 12.
- Sound-reproducing machine. H. T. Schiff. No. 1,440,180; Dec. 26.
- Sound-reproducing machines, Automatic stop for. W. G. Althaus. No. 1,420,071; June 20.
- Sound-reproducing machines, Automatic stop for. Z. Eckelbarger. No. 1,412,849; Apr. 18.
- Sound-reproducing machines, Control means for. F. Cheney. No. 1,415,525; May 9.
- Sound-reproducing machines, Mounting for. E. F. O'Neill. Nos. 1,418,016-7; May 30.
- Sound-reproducing machines, Needle holder for. E. C. Kuehl. No. 1,414,517; May 2.
- Sound-reproducing machines, Record-lifting device for. E. F. Cervený. No. 1,440,276; Dec. 26.
- Sound-reproducing machines, Repeating attachment for. G. L. Bullock. No. 1,405,751; Feb. 7.
- Sound-reproducing record. J. F. Gulyban. No. 1,434,005; Oct. 31.
- Sound transmission, System for. J. H. Hammond, jr. No. 1,425,522; Aug. 15.
- Sound-transmitting apparatus. G. Di Giacomo and L. Melchiorri. No. 1,410,897; Mar. 28.
- Sound-transmitting diaphragm, composition therefor, and making same. G. S. Knox. No. 1,412,619; Apr. 11.
- Sound-transmitting means. H. J. Durborow and B. L. Winders. No. 1,418,909; June 6.
- Sound vibrations, Method and apparatus for utilizing. S. Spitz. No. 1,409,794; Mar. 14.
- Sound-wave-transmitting device. F. L. Shelor. No. 1,437,270; Nov. 28.
- Sounder, Deep-sea. W. E. Clarke. No. 1,421,672; July 4.
- Sounding apparatus. L. L. Westling. No. 1,427,181; Aug. 29.
- Sounding device. V. H. Conley. No. 1,405,292; Jan. 31.
- Sounding device. W. A. Garratt. No. 1,434,655; Nov. 7.
- Sounding device. J. P. Keegan. No. 1,439,672; Dec. 19.
- Sounding device. J. P. Nikonow. No. 1,406,482; Feb. 14.
- Sounding device. J. S. Stemons. No. 1,431,604; Oct. 10.
- Sounding device, Pneumatic. W. A. Garratt. No. 1,434,657; Nov. 7.
- Sounding lead, Stream-line. C. H. Fitzpatrick. No. 1,410,904; Mar. 28.
- Sounds and intervals of silence, Apparatus for recording the duration of. F. E. Mosley. No. 1,405,060; Jan. 31.
- Sounds and projecting pictures, Machine for synchronously reproducing. G. Bohn and H. A. Breining. No. 1,432,273; Oct. 17.
- Space-band mechanism. F. W. Letsch. No. 1,430,018; Sept. 26.
- Spacer or space band, Justifying. J. H. Beck. No. 1,424,870; Aug. 8.
- Spacer or space band, Justifying. D. S. Kennedy. No. 1,439,824; Dec. 26.
- Spacing bar. F. L. Metzger. No. 1,421,807; July 4.
- Spacing machine. G. P. Kline. No. 1,416,299; May 16.
- Spacing members, Device for positioning. H. M. Rockwell. No. 1,419,520; June 13.
- Spade. F. B. Currier. No. 1,411,166; Mar. 28.
- Spade. E. W. Mundt. No. 1,423,775; July 25.
- Spade knife. O. H. Lewis. No. 1,408,368; Feb. 28.
- Spanner and wrench, Combined. E. H. Guerrero. No. 1,405,207; Jan. 31.
- Spanner, Shifting. K. Kissendorfer. No. 1,404,445; Jan. 24.
- Spanner wrench, Adjustable. J. J. Bartenstein. No. 1,417,792; May 30.
- Spanner wrench, Adjustable. F. W. Trabold. No. 1,402,686; Jan. 3.
- Spar. W. H. Barling. No. 1,405,889; Feb. 7.
- Spar mill. C. H. Sawyer. No. 1,414,306; Apr. 25.
- Spark-adjusting apparatus. W. E. Schwarzmann. No. 1,432,915; Oct. 24.
- Spark arrester. W. H. Boerum. No. 1,436,569; Nov. 21.
- Spark arrester. W. B. Nutting. No. 1,416,968; May 23.
- Spark arrester. P. Palva. No. 1,410,500; Mar. 21.
- Spark arrester. C. E. Ramsay. No. 1,433,035; Oct. 24.
- Spark arrester. H. W. Ridgway. No. 1,439,262; Dec. 19.
- Spark arrester. L. E. Shull and V. D. Sipes. No. 1,438,868; Dec. 12.
- Spark arrester. W. L. Tarvin. No. 1,430,475; Sept. 26.
- Spark conductor. W. H. Hatcher. No. 1,425,473; Aug. 8.
- Spark-gap apparatus. L. O. Parker. No. 1,428,856; Sept. 12.
- Spark gap, Quench rotary. E. F. Bell. No. 1,418,518; June 6.
- Spark intensifier. M. J. Freeman. No. 1,423,204; July 18.
- Spark plug. D. A. Abbott. No. 1,429,821; Sept. 19.
- Spark plug. H. W. Aschinger. No. 1,419,197; June 13.
- Spark plug. J. M. Atwater. No. 1,406,810; Feb. 14.
- Spark plug. T. T. Bathurst. (Reissue) No. 1,527,6; Jan. 31.
- Spark plug. R. C. Berry. No. 1,419,904; June 13.
- Spark plug. C. O. Blee. No. 1,410,645; Mar. 28.
- Spark plug. G. R. Blodgett, R. T. Hurley, and M. E. Cheney. (Reissue) Nos. 1,530,3-4; Mar. 14.
- Spark plug. T. Davis. No. 1,438,300; Dec. 12.
- Spark plug. T. T. Bathurst. No. 1,430,429; Sept. 26.
- Spark plug. S. J. V. Bovey. No. 1,439,791; Dec. 26.
- Spark plug. F. L. Bronson. No. 1,433,117; Oct. 24.
- Spark plug. H. Cartmill. No. 1,429,017; Sept. 12.
- Spark plug. J. G. Dickson. No. 1,414,806; May 2.
- Spark plug. P. J. Donovan. No. 1,418,632; June 6.
- Spark plug. C. H. Duffy. No. 1,402,847; Jan. 10.
- Spark plug. A. J. Faber. No. 1,430,964; Oct. 3.
- Spark plug. F. Frommeyer. No. 1,437,100; Nov. 28.
- Spark plug. J. W. Gleason. No. 1,436,760; Nov. 28.
- Spark plug. T. F. Hanway. No. 1,405,686; Feb. 7.
- Spark plug. F. A. Henkle. No. 1,425,476; Aug. 8.
- Spark plug. M. B. Hill. No. 1,416,557; May 16.
- Spark plug. C. Hough. No. 1,413,478; Apr. 18.
- Spark plug. L. G. Howard. No. 1,415,447; May 9.
- Spark plug. D. M. Hutchinson. No. 1,423,219; July 18.
- Spark plug. L. Kebler. No. 1,403,501; Jan. 17.
- Spark plug. A. J. Kloneck. No. 1,412,874; Apr. 18.
- Spark plug. L. E. Kottmeyer. No. 1,415,248; May 9.
- Spark plug. F. Kraemer. No. 1,427,481; Aug. 29.
- Spark plug. W. C. Kretschmer. No. 1,433,211; Oct. 24.
- Spark plug. J. Malligan. No. 1,420,565; June 20.
- Spark plug. G. Marotta. No. 1,415,668; May 9.
- Spark plug. A. A. Mellblom. No. 1,425,329; Aug. 8.
- Spark plug. T. E. New. No. 1,405,549; Feb. 7.
- Spark plug. J. J. Norris. No. 1,403,441; Jan. 10.
- Spark plug. V. M. Peterson. No. 1,409,400; Mar. 14.
- Spark plug. S. P. Pietzsk. No. 1,416,868; May 23.
- Spark plug. A. E. Premery. No. 1,433,149; Oct. 24.
- Spark plug. J. B. Rogers. No. 1,410,723; Mar. 28.
- Spark plug. A. Rosenfeld. No. 1,430,756; Oct. 3.
- Spark plug. C. T. Roth and E. P. Nicholson. No. 1,424,591; Aug. 1.
- Spark plug. S. Stasel and D. Berwick. No. 1,413,625; Apr. 25.
- Spark plug. H. G. Schlecht. No. 1,428,451; Sept. 5.
- Spark plug. O. Spahr. No. 1,432,042; Oct. 17.
- Spark plug. R. F. Stephenson. No. 1,420,159; June 20.
- Spark plug. A. F. Swaidmark. No. 1,434,636; Nov. 7.
- Spark plug. D. Swan. No. 1,412,320; Apr. 11.
- Spark plug. H. Walker. No. 1,410,786; Mar. 28.
- Spark plug. C. B. White. No. 1,405,701; Feb. 7.
- Spark plug. L. S. Williams and B. Kerr. No. 1,424,700; Aug. 1.
- Spark plug. F. M. Wood. No. 1,417,876; May 30.
- Spark plug. M. Young. No. 1,403,886; Jan. 17.
- Spark-plug adaptor. E. F. Wackwitz. No. 1,402,552; Jan. 3.

Alphabetical list of inventions—Continued.

- Spark-plug attachment. S. Donaldson. No. 1,429,329; Sept. 19.
- Spark-plug case or holder. R. S. Grose. No. 1,434,338; Oct. 31.
- Spark-plug cleaner. W. F. Hagen. No. 1,421,001; June 27.
- Spark-plug cleaner. W. W. Helle. No. 1,403,686; Jan. 17.
- Spark-plug cleaner. E. Keil. No. 1,438,834; Dec. 12.
- Spark-plug core. H. J. Seely. No. 1,424,526; Aug. 1.
- Spark plug for internal-combustion engines. H. Le Van Horning. No. 1,432,811; Oct. 24.
- Spark-plug head structure. W. S. Thomas. No. 1,411,229; Mar. 28.
- Spark-plug holder. G. O. Zimmerman. No. 1,429,669; Sept. 19.
- Spark-plug intensifier and tester. J. H. Smith. No. 1,409,253; Mar. 14.
- Spark-plug mold. C. E. Gerband. No. 1,439,667; Dec. 19.
- Spark-plug protector. M. M. Sharp. No. 1,411,194; Mar. 28.
- Spark plug, Visible. A. T. Crane. Nos. 1,425,748-9; Aug. 15.
- Spark-plug wrench. W. M. Lawrence. No. 1,410,816; Mar. 28.
- Spark plugs, Apparatus for manufacturing glass insulators for. F. A. Howard. No. 1,405,034; Jan. 31.
- Spark plugs, Attachment for. E. F. Wackwitz. No. 1,417,871; May 30.
- Spark plugs, Gap adjuster for. G. H. Tisdale, H. G. S. Anderson, and E. B. Thornhill. No. 1,431,708; Oct. 10.
- Spark plugs, Insulated electrode for. W. S. Thomas. No. 1,437,999; Dec. 5.
- Spark plugs, Oil arrester for. G. F. Nuss. No. 1,411,296; Apr. 4.
- Spark-producing mechanism. W. J. Frisbie. Nos. 1,407,142-3; Feb. 21.
- Spark-producing mechanism. W. J. Frisbie. Nos. 1,429,419-20; Sept. 19.
- Spark-producing mechanism. C. J. Schmidt. No. 1,407,225; Feb. 21.
- Spark timer and oil pump, Combined. J. McClelland. No. 1,414,823; May 2.
- Spark timer and oil pump, Combined. J. McClelland. No. 1,422,725; July 11.
- Sparkling plug. W. A. Jones. No. 1,426,333; Aug. 15.
- Sparkling plug. A. V. Ryder. No. 1,403,448; Jan. 10.
- Sparkling plug. S. E. Taylor, F. O. Ellis, and G. E. T. Archer. No. 1,416,907; May 23.
- Spat and leg covering, Combined. G. J. Nichols. No. 1,438,327; Dec. 12.
- Spat, Hosiery. E. von S. S. Blum. No. 1,435,047; Nov. 7.
- Spat and puttee, Combined. C. Tweedie. No. 1,424,532; Aug. 1.
- Spat or legging. C. F. O. Seibert. No. 1,416,421; May 16.
- Spatula. H. Rietveld. No. 1,432,412; Oct. 17.
- Spatulating device. C. F. Franzwa. No. 1,430,070; Sept. 26.
- Speaking device. O. M. Wolff. No. 1,433,166; Oct. 24.
- Spear. E. Gray. No. 1,414,511; May 2.
- Spear, Casing. C. S. Straight. No. 1,427,033; Aug. 22.
- Specific-gravity device. F. O. Hartman and C. T. Anderson. No. 1,424,403; Aug. 1.
- Spectacle-case clip. S. W. Reynolds. No. 1,411,065; Mar. 28.
- Spectacle-frame machinery. A. E. Maynard. No. 1,406,053; Feb. 7.
- Spectacle frames and similar articles, Making. H. Tremblay. No. 1,425,919; Aug. 15.
- Spectacles, Attachment for. R. P. Elmore. No. 1,429,854; Sept. 19.
- Spectacles, Eye-protector attachment for. F. Willson and H. F. Shindel. No. 1,433,690; Oct. 31.
- Speed and clutching mechanism, Change. C. H. Strong. No. 1,428,346; Sept. 5.
- Speed-change mechanism. G. Cassady. No. 1,409,523; Mar. 14.
- Speed-change mechanism. R. E. Winters. No. 1,407,716; Feb. 28.
- Speed-changing device. C. K. Matthews. No. 1,420,272; June 20.
- Speed-changing device. R. Stresau. No. 1,426,926; Aug. 22.
- Speed-changing mechanism. D. M. Auvil. No. 1,404,081; Jan. 17.
- Speed-changing mechanism. F. E. Rogers. No. 1,410,722; Mar. 28.
- Speed-changing mechanism. W. I. Wheeler. No. 1,421,639; July 4.
- Speed circuit controller. A. G. Shaver. No. 1,415,412; May 9.
- Speed-control mechanism, Change. E. Hed and J. A. Hellsing. No. 1,434,384; Nov. 7.
- Speed device, Change-of. J. R. Stephenson. No. 1,437,120; Nov. 28.
- Speed device, Variable. S. Bobrovsky. No. 1,413,095; Apr. 18.
- Speed driving mechanism for tractors, Variable. J. B. Foote. No. 1,419,243; June 13.
- Speed driving mechanism, Variable. A. Hoffbauer. No. 1,410,305; Mar. 21.
- Speed friction drive, Variable. M. Balcker. No. 1,416,158; May 16.
- Speed gear, Change. J. Cotal. No. 1,418,537; June 6.
- Speed gearing, Variable. L. D. Gillette. No. 1,431,649; Oct. 10.
- Speed-indicating device. J. V. Bosque and P. Giró y Casañas. No. 1,421,390; July 4.
- Speed indicator. F. H. and A. R. Butterfield. No. 1,409,134; Mar. 7.
- Speed indicator. W. A. Erner. No. 1,409,839; Mar. 14.
- Speed indicator. T. Farmer, Jr. No. 1,417,049; May 23.
- Speed indicator. F. C. Harris. No. 1,404,850; Jan. 31.
- Speed indicator. P. Jaray. No. 1,428,780; Sept. 12.
- Speed indicator. H. H. Riggs. No. 1,417,204; May 23.
- Speed indicator, Air-. C. R. Colt. No. 1,436,575; Nov. 21.
- Speed indicator and signal. O. S. Haslet. No. 1,420,314; June 20.
- Speed indicator, Periodical. E. Jaeger. No. 1,413,278; Apr. 18.
- Speed indicator, Relative. W. White. No. 1,439,137; Dec. 19.
- Speed indicator, Rotary. P. M. Favre-Bulle. No. 1,414,268; Apr. 25.
- Speed indicator, Rotary. E. J. Wilson. Nos. 1,416,082-4; May 16.
- Speed indicator, Ship-. R. Star. No. 1,436,611; Nov. 21.
- Speed-integrating mechanism. K. T. F. Jung and G. H. Petersson. No. 1,416,210; May 16.
- Speed mechanism, Automatic change. M. Stucatur. No. 1,416,996; May 23.
- Speed mechanism, Variable. S. W. Griffin. No. 1,420,253; June 20.
- Speed mechanism, Variable. O. W. Hanson. No. 1,402,493; Jan. 3.
- Speed motor mechanism, Controlled variable. C. T. Frantz. No. 1,437,233; Nov. 28.
- Speedometer. J. W. Jones. No. 1,408,598; Mar. 7.
- Speedometer, Audible. J. E. Kennedy. No. 1,420,633; June 27.
- Speedometer gear and swivel-joint protector. O. I. Tomblin. No. 1,409,261; Mar. 14.
- Speedometer, Recording. M. W. Koski. No. 1,422,990; July 18.
- Speedometers, Driving mechanism for. C. W. Svenson. No. 1,404,067; Jan. 17.
- Speedometers, Trip reset for. C. Carson. No. 1,405,899; Feb. 7.
- Speed reducer and slip clutch, Combined. W. H. Clifford. No. 1,410,655; Mar. 28.
- Speed-reducing mechanism. E. E. McCollum. No. 1,431,167; Oct. 10.
- Speed-regulating apparatus. V. A. Fynn. No. 1,411,339; Apr. 4.
- Speed-regulating arrangement. L. A. Hawkins. No. 1,428,588; Sept. 12.
- Speed-regulating device. W. P. McNeel. No. 1,416,567; May 16.
- Speed-regulating device for vehicles. J. C. Radovich. No. 1,410,348; Mar. 21.
- Speed-regulating means. T. Fletcher. No. 1,429,576; Sept. 19.
- Speed-regulating system. L. W. Thompson. No. 1,403,137; Jan. 10.
- Speed-regulator system. S. A. Staeger. No. 1,438,616; Dec. 12.
- Speed signaling device, Automatic. G. A. Brewer. No. 1,437,714; Dec. 5.
- Speed, time, and quantity recording instrument. H. Galopin. No. 1,421,352; June 27.
- Speed tool, High-. E. I. Wenger. No. 1,424,536; Aug. 1.
- Speed transmission, Automatic variable. J. F. Overwyn. No. 1,404,475; Jan. 24.
- Speed transmission, Control set for change. A. H. Asprooth. No. 1,416,672; May 23.
- Speed-transmission device, Variable. A. Chapuy and L. F. Meunier. No. 1,426,358; Aug. 22.
- Speed-transmission mechanism, Variable. J. Dain. No. 1,413,217; Apr. 18.
- Speed transmission, Variable. J. I. Butcher. No. 1,410,454; Mar. 21.
- Speed transmission, Variable. E. Frey. No. 1,431,647; Oct. 10.
- Speed transmission, Variable. J. Reece. Nos. 1,428,659-60; Sept. 12.
- Speed-varying mechanism. W. E. Gray. No. 1,434,814; Nov. 7.
- Speed-varying transmission. H. C. Clay. No. 1,434,992; Nov. 7.
- Spherical surfaces, Apparatus for grinding. W. Taylor. No. 1,431,194; Oct. 10.
- Spider and slips, Casing. B. F. Kelley. No. 1,405,223; Jan. 31.
- Spider, Rotatable. S. Preston. No. 1,439,378; Dec. 19.
- Spike. C. D. Russell. No. 1,430,758; Oct. 3.
- Spike. W. W. Yehling. No. 1,424,058; July 25.
- Spike-driving machine. G. N. Therrien. No. 1,412,222; Apr. 11.
- Spike fastener. H. A. Perry. No. 1,435,872; Nov. 14.
- Spike making machine, Automatic. G. Weber. No. 1,418,500; June 6.
- Spike or nail, Expandable. J. Hojnowski. No. 1,433,206; Oct. 24.
- Spike puller. A. M. Kurzwa. No. 1,408,361; Feb. 28.

Alphabetical list of inventions—Continued.

- Spikes, Die and the manufacture of. H. E. Harris. No. 1,408,882; Mar. 7.
- Spinal vibrating apparatus. T. L. Zook. No. 1,425,433; Aug. 8.
- Spindle. F. H. Chapman. No. 1,406,975; Feb. 21.
- Spindle. H. A. Tiffany. No. 1,414,905; May 2.
- Spindle cooling and lubricating means. R. C. Mitchel. No. 1,404,538; Jan. 24.
- Spindle driving mechanism, Multiple. O. C. Bornholt. No. 1,404,265; Jan. 24.
- Spindle, Grinder. C. G. Olson. No. 1,433,223; Oct. 24.
- Spindle, Lead. H. C. Ryding and G. A. Millar. No. 1,439,380; Dec. 19.
- Spindle lock. J. Rath. No. 1,432,621; Oct. 17.
- Spindle lock. P. M. Wardell. No. 1,433,580; Oct. 31.
- Spindle retainer. C. E. McGill. (Reissue). No. 15,272; Jan. 17.
- Spindle, Serving. G. L. Mason. No. 1,403,180-1; Jan. 10.
- Spindles, Compensating bearing for wheel. P. Stoner. No. 1,433,424; Oct. 24.
- Spinning and balling machine. L. E. Whitcomb. No. 1,427,667; Aug. 29.
- Spinning and balling machine, Combined twine. W. H. Phillips. No. 1,436,321; Nov. 21.
- Spinning and like machines, Doffer guard and oil-well cover for spindle supports for. J. R. Glennon and L. Dupuis. No. 1,425,521; Aug. 15.
- Spinning and twisting machine with automatic doffing apparatus, Ring. F. Graf. No. 1,436,955; Nov. 28.
- Spinning cotton rovings, High slip-draft apparatus for. O. Latsch. No. 1,421,965; July 4.
- Spinning, doubling, and twisting machine. R. E. Hines. No. 1,423,801; July 25.
- Spinning, doubling, twisting and like machines, Doffing apparatus for. A. and J. Stell. No. 1,429,375; Sept. 19.
- Spinning, drawing, slubbing, roving, and the like machine, Textile. W. Binns. No. 1,435,912; Nov. 21.
- Spinning frames, Bunch-building attachment for. C. A. Pierce. No. 1,427,697; Aug. 29.
- Spinning frames, Doffing-rail lock for. J. M. Houghton. No. 1,411,276; Apr. 4.
- Spinning frames, Roving stop motion for. G. K. Kapatas. No. 1,401,984; Jan. 3.
- Spinning frames, Stop motion for. T. G. Bullard. No. 1,403,386; Jan. 10.
- Spinning machine. E. E. Bradley. No. 1,425,363; Aug. 8.
- Spinning machine. E. A. Jones. No. 1,407,754; Feb. 28.
- Spinning machine. E. A. Watson. No. 1,430,774; Oct. 3.
- Spinning machine. E. A. Watson and R. J. Floyd. No. 1,430,775; Oct. 3.
- Spinning machine, Thread. W. F. Haupt. No. 1,407,793; Feb. 28.
- Spinning machines, Attachment for. A. J. Cote and A. Cote. No. 1,422,745; July 11.
- Spinning machines, Drag device for. F. W. Constantine and T. G. Kay. No. 1,414,688; May 2.
- Spinning machines, Drawing tube of ring. L. Schorsch. No. 1,404,165; Jan. 17.
- Spinning machines, Means for pressing cop tubes on the spindles of. E. Buck. No. 1,435,450; Nov. 14.
- Spinning machines, Ring-rail brace for. J. R. Hanson and J. R. Shepherd. No. 1,421,466; July 4.
- Spinning machines, Roller-bar tip for. L. B. Reid. No. 1,415,707; May 9.
- Spinning machines, Stop motion for. N. L. Lawton. No. 1,414,883; May 2.
- Spinning machines, Thread guide for. R. V. Butler. No. 1,412,917; Apr. 18.
- Spinning machines, Thread guide for. E. Rittenhouse. No. 1,402,538; Jan. 3.
- Spinning or winding machine. R. L. Duke. No. 1,433,347; Oct. 24.
- Spinning or winding machine. H. A. Leonard. No. 1,412,808; Apr. 11.
- Spinning ring. C. A. Holt. No. 1,423,216; July 18.
- Spinning rings, Finishing. L. B. Fraser. No. 1,437,234; Nov. 28.
- Spinning spindles, Driving of. J. C. Leslie. No. 1,436,268 Nov. 21.
- Spinning, twisting, and like machines, Doffing mechanism for. J. W. T., and W. Wademan. No. 1,432,646; Oct. 17.
- Spinning viscous liquids in flowing feeding liquids. E. Elsaesser. No. 1,414,076; Apr. 25.
- Spiral machine. T. Kardong. No. 1,417,249; May 23.
- Spiral-spring-winding device. G. Ziloecki. No. 1,413,150; Apr. 18.
- Spirals, Machine for coiling metal. W. A. Zeidler. No. 1,408,676; Mar. 7.
- Spirit wheel. W. H. Swallow. No. 1,418,686; June 6.
- Spirits and rosin from yellow and green pine stumps, Means for extracting crude. J. M. Jordon. No. 1,424,248; Aug. 1.
- Spiritualistic communication apparatus. S. A. Bisey. No. 1,420,956; June 27.
- Spirometers, Equalizing device for. C. H. Dane. No. 1,407,841; Feb. 28.
- Spleen extract. R. A. Archibald. No. 1,437,951; Dec. 5.
- Splicing tool. E. J. Williams. No. 1,422,803; July 11.
- Spline. P. Cuntala. No. 1,435,811; Nov. 14.
- Split, Adjustable surgical. H. V. Smith. No. 1,418,486; June 6.
- Split pin. F. J. Fenicle. No. 1,416,700; May 23.
- Split sprocket. O. Cullman. No. 1,431,374; Oct. 10.
- Splitting logs, Apparatus for. J. A. Gorrie. No. 1,406,552; Feb. 14.
- Spoke-forming device. W. McCullough. No. 1,425,785; Aug. 15.
- Spoke for vehicle wheels, Tubular sheet-metal. T. N. Aikens. No. 1,426,942; Aug. 22.
- Spoke-nipple wrench. J. M. Morse. No. 1,402,434; Jan. 3.
- Spoke tightener. J. D. Tucker. No. 1,411,391; Apr. 4.
- Spoke tightener. E. M. and J. D. Tucker. No. 1,424,530; Aug. 1.
- Spoke-tightening shim. J. D. Tucker. No. 1,422,637; July 11.
- Sponge cup. H. L. McGinty. No. 1,405,142; Jan. 31.
- Spool. C. E. Ehnborn. No. 1,411,328; Apr. 4.
- Spool. W. A. Prentiss. No. 1,425,895; Aug. 15.
- Spool and needle case. S. A. Reed. No. 1,421,099; June 27.
- Spool and screen, Combination. W. Quinn. No. 1,409,572; Mar. 14.
- Spool-centering device. E. F. Kingsbury. No. 1,402,167; Jan. 3.
- Spoolers, Doffing device for. A. E. Rhoades. No. 1,425,053; Aug. 8.
- Spoolers, Tension device for. D. E. Skedgell. No. 1,403,454; Jan. 10.
- Spool flange. T. A. Cunningham. No. 1,404,934; Jan. 31.
- Spool holder. F. H. Ahl. No. 1,414,971; May 2.
- Spool holder. M. C. Edwards. No. 1,433,356; Oct. 24.
- Spool machines, Feed wheel for. C. S. Brown. No. 1,421,395; July 4.
- Spool rack. A. J. Northcraft. No. 1,405,554; Feb. 7.
- Spooling machine. J. F. Cullen. No. 1,418,365; June 6.
- Spooling-machine tension device. F. E. Bingham and T. Tomlinson. No. 1,408,560; Mar. 7.
- Spooling machines, Tension device for. S. Taylor and F. Jarry. No. 1,422,240; July 11.
- Spooling machines, Tensioning device for. C. H. Land. No. 1,432,399; Oct. 17.
- Spoon. A. W. Buchbinder. No. 1,438,018; Dec. 5.
- Spoon, Fiber. A. Bothe. No. 1,435,890; Nov. 14.
- Spotlight. C. Bramming. No. 1,403,668; Jan. 17.
- Spotlight. F. L. Humiston. No. 1,421,944; July 4.
- Spotlight. S. L. Lebbly. No. 1,408,104; Feb. 28.
- Spotlight. H. E. Oster. No. 1,430,839; Oct. 3.
- Spotlight. E. W. Reiber. No. 1,427,329; Aug. 29.
- Spotlight. W. Schierding. No. 1,430,448; Dec. 19.
- Spotlight. S. E. Svendsen. No. 1,433,044; Oct. 24.
- Spotlight. R. E. Williams. No. 1,430,134; Sept. 26.
- Spotlight, Adjustable. W. Steiner. No. 1,407,897; Feb. 28.
- Spotlight and operating mechanism. N. Stramaglia. No. 1,433,425; Oct. 24.
- Spotlight, Automatic adjustable. N. W. Warman. No. 1,433,317; Oct. 24.
- Spotlight brackets, Clamp for. R. E. Williams. No. 1,416,148; May 16.
- Spotlight control. H. J. Segur. No. 1,415,409; May 9.
- Spotlight, Motor-vehicle. F. S. Boyer. No. 1,426,250; Aug. 15.
- Spotlight-regulating device. C. F. L., C. H., and W. L. Kaufmann. No. 1,438,380; Dec. 12.
- Spotlight signal. J. W. Cain. No. 1,413,096; Apr. 18.
- Spotlight support. C. B. Gibson, Jr. No. 1,405,111; Jan. 31.
- Spotlight support. J. C. Stearns. No. 1,424,687; Aug. 1.
- Spotlights, Bracket and limiting device for. R. E. Williams. No. 1,419,431; June 13.
- Spotlights, Limiting device for. J. R. Shirreffs. No. 1,412,544; Apr. 11.
- Spotlights, Lock bracket for. W. X. Norton. No. 1,431,139; Oct. 3.
- Spotlights, Support for. C. W. Fisher. No. 1,413,977; Apr. 25.
- Spotlights, Supporting bracket for. S. L. Lebbly. No. 1,431,963; Oct. 17.
- Spout, Pouring. H. L. Strongson. No. 1,405,638; Feb. 7.
- Spout, Pouring. F. Tunnichiff. No. 1,416,309; May 16.
- Spouts and tubes, Machine for making metal. A. Thompson. No. 1,402,913; Jan. 10.
- Spray. B. Wilkie. No. 1,405,810; Feb. 7.
- Spray, Bath. J. A. Mulherin. No. 1,422,291; July 11.
- Spray desiccation apparatus. H. J. Zimmermann. No. 1,426,030; Aug. 15.
- Spray head. H. D. Lathrop. No. 1,408,521; Mar. 7.
- Spray sprinkler. V. A. H. Kahler. No. 1,415,452; May 9.
- Sprayer. W. A. Pitt. No. 1,411,513; Apr. 4.
- Sprayer. J. M. Stocker. No. 1,421,038; June 27.
- Sprayer. C. A. Wood. No. 1,439,461; Dec. 19.
- Sprayer, Paint. H. O. Norris. No. 1,427,495; Aug. 29.
- Spraying animals, Distributor for. J. Trukenbrodt and N. C. Jensen. No. 1,429,206; Sept. 12.
- Spraying apparatus. J. A. Rhodes. No. 1,416,065; May 16.
- Spraying attachment. O. J. Arness. No. 1,430,348; Sept. 26.
- Spraying device. E. Jeanmaire. No. 1,412,468; Apr. 11.
- Spraying head, Rotary. J. C. MacLachlan. No. 1,420,722; June 27.
- Spraying machine. W. Brown. No. 1,433,174; Oct. 24.
- Spraying machines, Vine protector for. M. F. McKasty. No. 1,408,815; Mar. 7.
- Spraying tank. F. A. Ostler. No. 1,430,840; Oct. 3.
- Spreader. F. M. Kinnard. No. 1,430,309; Sept. 26.

Alphabetical list of inventions—Continued.

- Spreader. H. T. Swasey. No. 1,426,423; Aug. 22.
 Spreader and lubricator, Spring-leaf. E. Cinquini. No. 1,403,589; Jan. 17.
 Spreader, Vise. G. H. Binger. No. 1,405,263; Jan. 31.
 Spring: *See—*
 Air spring. Hub spring.
 Auxiliary spring. Rail spring.
 Cantilever spring. Seat spring.
 Cushion spring. Supporting spring.
 Door spring. Trap spring.
 Furniture spring. Vehicle spring.
 High-capacity spring. Vehicle air spring.
 Spring. N. W. Akimoff. No. 1,428,740; Sept. 12.
 Spring. E. Barnes. No. 1,419,005; June 6.
 Spring. P. Ferrier. No. 1,403,153; Jan. 10.
 Spring. W. A. Holt. No. 1,435,607; Nov. 14.
 Spring. C. E. Manners. No. 1,405,606; Feb. 7.
 Spring. A. F. Meyer. No. 1,404,464; Jan. 24.
 Spring and shock absorber, Combined. T. Morski. No. 1,408,124; Feb. 28.
 Spring compressor. H. H. Douglass. No. 1,429,024; Sept. 12.
 Springboard-supporting device. R. B. Rupe, D. A. and A. R. Hazelton. No. 1,437,864; Dec. 5.
 Spring bolt. T. E. Adkins. No. 1,424,331; Aug. 1.
 Spring box. V. Angerer. No. 1,411,826; Apr. 4.
 Spring bracket. A. T. Sturt. No. 1,419,083; June 6.
 Spring cap, Double-seal. J. F. McGarrahan. No. 1,417,341; May 23.
 Spring clamp. M. O. Jensen. No. 1,409,551; Mar. 14.
 Spring clamp, Adjustable. J. R. Staudt. No. 1,406,695; Feb. 14.
 Spring clip. W. T. R. Price. No. 1,407,479; Feb. 21.
 Spring compressor. J. W. Harsley and M. P. Apgar. No. 1,436,393; Nov. 21.
 Spring compressor, Leaf. W. W. Blakely. No. 1,425,832; Aug. 15.
 Spring connection. H. W. Bell. No. 1,427,186; Aug. 29.
 Spring cushion. D. Fiss and M. Rimland. No. 1,434,653; Nov. 7.
 Spring-cushion construction. L. A. Suekoff. No. 1,411,227; Mar. 28.
 Spring eyes, Machine for making. W. Evans. No. 1,426,165; Aug. 15.
 Spring fastener. H. J. Bryant. No. 1,431,929; Oct. 17.
 Spring feeler finger. G. M. Arragg. No. 1,412,595; Apr. 11.
 Spring fitting and quenching machine. A. G. Cole, W. H. Foster, and L. H. Fry. No. 1,425,238; Aug. 8.
 Spring-forming machine. T. F. Buckley. No. 1,428,626; Sept. 12.
 Spring friction clutch with auxiliary clutch, Helical. A. Gmeinder. No. 1,416,283; May 16.
 Spring hanger. H. D. Palmer. No. 1,414,748; May 2.
 Spring hook. M. A. A. Flannery. No. 1,403,397; Jan. 10.
 Spring horn and bumper support, Combined. W. R. Stuckland. No. 1,421,608; July 4.
 Spring-locking device. G. H. F. Holy. No. 1,431,954; Oct. 17.
 Spring lubricator. J. F. A. Phillips. No. 1,421,551; July 4.
 Spring motor. J. W. Jones. No. 1,406,650; Feb. 14.
 Spring motor. C. H. Kolling. No. 1,403,039; Jan. 10.
 Spring motor. P. S. Larson. No. 1,408,365; Feb. 28.
 Spring motor. L. Schmitt. No. 1,423,032; July 18.
 Spring-motor mechanism. F. Magidson. No. 1,420,048; June 20.
 Spring-motor-winding mechanism. O. C. Leger. No. 1,423,230; July 18.
 Spring motors, Speed-regulating mechanism for. E. E. Wilkinson and S. Aronson. No. 1,402,985; Jan. 10.
 Spring mounting. C. C. Hudson. No. 1,418,799; June 6.
 Spring-operated motor. J. C. Foster. No. 1,421,932; July 4.
 Spring pad. S. S. Marcus and S. Krakauer. No. 1,406,051; Feb. 7.
 Spring pin. S. Segal. No. 1,403,128; Jan. 10.
 Spring plates, Shearing dies for. J. A. Fray. No. 1,426,470; Aug. 22.
 Spring rigging. N. E. Gee. No. 1,413,399; Apr. 18.
 Spring rings and manufacturing same, Bolt for. L. Lemaitre. No. 1,423,441; July 18.
 Spring seat. H. F. Gynn. No. 1,418,561; June 6.
 Spring seat. L. Schreiber. No. 1,423,460; July 18.
 Spring-seat. A. Wilk. No. 1,427,183; Aug. 29.
 Spring-seat construction. H. O. Reidenbach. No. 1,418,469; June 6.
 Spring-seat frame. C. F. Coda. No. 1,404,272; Jan. 24.
 Spring shackle. H. P. Lambert. No. 1,437,185; Nov. 28.
 Spring shackle. H. T. Thomas. No. 1,413,635; Apr. 25.
 Spring shackle and forming the same. A. C. Webster. No. 1,432,648; Oct. 17.
 Spring structure. S. F. Dale. No. 1,435,814; Nov. 14.
 Spring structure. E. F. Fromm. No. 1,429,279; Sept. 19.
 Spring structure. H. O. Reidenbach. Nos. 1,433,229-30; Oct. 24.
 Spring structure, Coiled. W. E. Frank. No. 1,433,539; Oct. 31.
 Spring suspension. F. D. Howe. No. 1,436,803; Nov. 28.
 Spring suspension, Dual. S. J. Coughran. No. 1,430,495; Sept. 26.
 Spring shield and oiling device. G. Stocker. No. 1,426,613; Aug. 22.
 Spring sounder. H. L. and E. M. Boynton. No. 1,409,657; Mar. 14.
 Spring structure. W. R. Smith. No. 1,425,345; Aug. 8.
 Spring structure. D. H. Van Hove. No. 1,424,744; Aug. 1.
 Spring suspension. E. H. Belden. No. 1,407,916; Feb. 28.
 Spring suspension. E. H. Belden. No. 1,421,759; July 4.
 Spring suspension. H. W. Bell. No. 1,427,185; Aug. 29.
 Spring suspension. H. W. Bell and H. L. Hoyt, Jr. No. 1,420,680; June 27.
 Spring suspension. E. A. Curtis. No. 1,425,839; Aug. 15.
 Spring suspension. A. W. Gattie. No. 1,426,178; Aug. 15.
 Spring suspension. V. W. Page. No. 1,423,451; July 18.
 Spring wheel. M. L. Aldrich. No. 1,438,207; Dec. 12.
 Spring wheel. E. E. Anderson. No. 1,433,592; Oct. 31.
 Spring wheel. G. C. Atkinson. No. 1,406,961; Feb. 21.
 Spring wheel. W. J. Beisel. (Reissue). No. 15,371; June 6.
 Spring wheel. W. J. Beisel. No. 1,440,128; Dec. 26.
 Spring wheel. F. Bentley. No. 1,438,087; Dec. 5.
 Spring wheel. P. Eisenbach. No. 1,411,329; Apr. 4.
 Spring wheel. L. Giffond. No. 1,420,251; June 20.
 Spring wheel. H. Griffoul. No. 1,430,444; Sept. 26.
 Spring wheel. G. M. Henrie. No. 1,420,839; June 27.
 Spring wheel. J. E. Hettinger. No. 1,403,495; Jan. 17.
 Spring wheel. J. Jeidel. No. 1,426,741; Aug. 22.
 Spring wheel. H. W. Kirchner. No. 1,411,665; Apr. 4.
 Spring wheel. D. C. Kuffel. No. 1,434,291; Oct. 31.
 Spring wheel. J. Lang. No. 1,432,604; Oct. 17.
 Spring wheel. R. H. Langdale. No. 1,410,261; Mar. 21.
 Spring wheel. L. Mark and P. Bialy. No. 1,497,669; Feb. 21.
 Spring wheel. J. Mazzocco. No. 1,404,133; Jan. 17.
 Spring wheel. W. D. Neils. No. 1,402,882; Jan. 10.
 Spring wheel. E. C. Overboe. No. 1,413,608; Apr. 25.
 Spring wheel. M. W. Peck. No. 1,410,952; Mar. 28.
 Spring wheel. W. Piernikowski and S. Grudzinski. No. 1,423,733; July 25.
 Spring wheel. R. H. Plass. No. 1,411,375; Apr. 4.
 Spring wheel. E. W. Riebeth. No. 1,411,807; Apr. 4.
 Spring wheel. R. Santoro. No. 1,434,067; Oct. 31.
 Spring wheel. L. L. Savoie. No. 1,416,516; May 16.
 Spring wheel. P. M. Schneckenburger. No. 1,415,716; May 9.
 Spring wheel. T. H. Schuyler. No. 1,433,239; Oct. 24.
 Spring wheel. L. W. Simmons. No. 1,425,706; Aug. 15.
 Spring wheel. L. Smierek. No. 1,415,006; May 2.
 Spring wheel. C. G. Smith. No. 1,436,730; Nov. 28.
 Spring wheel. E. B. Sosa. No. 1,430,414; Sept. 26.
 Spring wheel. D. Yoakam. No. 1,428,575; Sept. 12.
 Spring winder. R. Titus. No. 1,437,277; Nov. 28.
 Springs, Lubricating attachment for. D. L. Lawson. No. 1,430,171; Sept. 26.
 Springs, Machine for making. R. D. Reese. No. 1,421,566; July 4.
 Springs, Making multiple-piece. J. F. O'Connor. No. 1,429,690; Sept. 19.
 Springs, Means for shaping and tempering leaf. A. V. Douglas. No. 1,432,977; Oct. 24.
 Springs, Shim for. K. R. Peters. No. 1,417,279; May 23.
 Springs, Tool for bending. W. D. Doonan. No. 1,417,890; May 30.
 Sprinkler: *See—*
 Automatic sprinkler. Toy sprinkler.
 Lawn sprinkler. Traveling sprinkler.
 Spray sprinkler.
 Sprinkler. D. F. McGill. No. 1,416,222; May 16.
 Sprinkler. J. R. Meadowcroft. No. 1,405,611; Feb. 7.
 Sprinkler. B. Oakes. No. 1,428,553; Sept. 12.
 Sprinkler head. W. A. Kennedy and A. J. Loepsinger. No. 1,427,822; Sept. 5.
 Sprinkler head. A. J. Loepsinger. Nos. 1,439,176-7; Dec. 19.
 Sprinkler head. T. J. Madigan. No. 1,422,875; July 18.
 Sprinkler head. A. F. Mowry. No. 1,415,677; May 9.
 Sprinkler-head check, Automatic. A. S. Curney. No. 1,432,386; Oct. 17.
 Sprinkler standard, Lawn. J. Manu. No. 1,432,479; Oct. 17.
 Sprinkler system. H. H. Duley. No. 1,402,152; Jan. 3.
 Sprinkler system, Automatic. F. S. Anderson. No. 1,404,827; Jan. 31.
 Sprinkler system, Automatic pumping. J. R. Hamilton. No. 1,405,411; Feb. 7.
 Sprinkling apparatus. W. Heine. No. 1,419,925; June 20.
 Sprinklers, Strut for automatic. E. M. Chaudler. No. 1,434,679; Nov. 7.
 Sprocket barrel. I. Marks. No. 1,411,926; Apr. 4.
 Sprocket, Expansion. W. C. Trout. No. 1,424,327; Aug. 1.
 Sprocket mounting. H. E. Schank. No. 1,410,724; Mar. 28.
 Sprocket wheel. C. H. Anthony. No. 1,433,923; Oct. 31.
 Sprocket wheel. R. J. Riley. No. 1,421,832; July 4.
 Sprocket wheel. C. P. Sester. No. 1,409,594; Mar. 14.
 Spud, Self-cleaning. W. L. Haight. No. 1,403,026; Jan. 10.
 Spudding jack. S. Bullum and W. O. Maxwell. No. 1,409,438; Mar. 14.
 Spudding shoe. B. T. Holman. No. 1,409,177; Mar. 14.

Alphabetical list of inventions—Continued.

- Spun material resembling wool, cotton, or chappe from viscose solutions, Producing. P. H. Minck. No. 1,428,246; Sept. 5.
- Spur and helical wheels, Machine-cutting. C. Barth. No. 1,429,398; Sept. 19.
- Square and bevel, Carpenter's. F. G. Cole. No. 1,408,800; Mar. 7.
- Square and miter, Adjustable. R. R. Pafford. No. 1,429,765; Sept. 19.
- Square, Pitch. J. W. Evans. No. 1,438,432; Dec. 12.
- Squeeze connector. G. L. Hatheway. No. 1,425,382; Aug. 8.
- Stable appliance. R. Minshall. No. 1,423,241; July 18.
- Stabilizer. W. F. Hensel. No. 1,430,374; Sept. 26.
- Stabilizer for lower dentures. N. M. MacKay. No. 1,432,708; Oct. 17.
- Stabilizer, Molding-board. H. A. Hall. No. 1,408,938; Mar. 7.
- Stack cover. F. C. Clarke. No. 1,439,226; Dec. 19.
- Stack-forming apparatus. R. A. Minks. No. 1,415,891; May 16.
- Stacker. L. E. La Bombard and M. H. Sidebotham. No. 1,434,014; Oct. 31.
- Stacker, Pneumatic straw. F. B. Carter. No. 1,415,792; May 9.
- Stacker, Pneumatic straw. W. O. Van Deventer. No. 1,415,736; May 9.
- Stackers, Reversing mechanism for straw. N. W. Traviss. No. 1,408,490; Mar. 7.
- Stacking device. W. C. Sheets. No. 1,430,761; Oct. 3.
- Stacking machine. H. H. Wanders. No. 1,435,353; Nov. 14.
- Stacking mechanism. T. Lund. No. 1,404,210; Jan. 24.
- Stacking tote box. A. F. Erickson. No. 1,420,992; June 27.
- Stadia-rod attachment. J. D. Watson. No. 1,428,669; Sept. 12.
- Staff or handle connection. T. A. Enzlish. No. 1,416,626; May 16.
- Stage and ladder. E. Schuler. No. 1,432,040; Oct. 17.
- Stage clamp, Adjustable. G. Kelly. No. 1,432,601; Oct. 17.
- Stage scenes, Track rail for curved. M. Hasait. No. 1,435,390; Nov. 14.
- Stage wings, Clamp and brace for. G. J. Hanlon. No. 1,419,848; June 13.
- Stain composition. A. Murray. No. 1,422,292; July 11.
- Staining wood. F. T. Atkinson. No. 1,403,536; Jan. 17.
- Stair construction. H. L. Feldblet and J. R. O'Donnell. No. 1,427,276; Aug. 29.
- Stair landing or platform. A. J. Hall. No. 1,423,481; July 18.
- Stair-rod fastener. I. W. Diehl. No. 1,418,133; May 30.
- Stair structure. A. A. Swanson. No. 1,420,294; June 20.
- Stairway. I. W. Hodgson. No. 1,412,406; Apr. 11.
- Stairway. J. H. Smith. No. 1,412,899; Apr. 18.
- Stairway. Pressed-steel. J. Lehman. No. 1,412,788; Apr. 11.
- Stairs, Adjustable tread. D. W. Fellows. No. 1,419,834; June 13.
- Stake. J. H. Wittmann. No. 1,427,889; Sept. 5.
- Stake and stake holder. F. J. Gosmeyer. No. 1,411,429; Apr. 4.
- Stake lock. F. L. Ruzicka. No. 1,416,881; May 23.
- Stake socket. H. E. Martin. No. 1,436,513; Nov. 21.
- Stalk cutter. J. W. Kelley. No. 1,410,320; Mar. 21.
- Stalk cutter. O. D. Peden. No. 1,429,163; Sept. 12.
- Stalk cutter. T. E. Wilkins. No. 1,436,071; Nov. 21.
- Stalk-cutter attachment. J. M. Haynes. No. 1,405,782; Feb. 7.
- Stalk-pulling machine. J. F. Stedman. No. 1,410,420; Mar. 21.
- Stall. E. H. and W. H. Moffatt. No. 1,427,224; Aug. 29.
- Stalls, Electrical system for use in cattle. E. Swensen. No. 1,411,812; Apr. 4.
- Stamp. O. B. Pickering. No. 1,422,474; July 11.
- Stamp affixers, Counter-operating mechanism for. W. J. Balkwill. No. 1,406,435; Feb. 14.
- Stamp-affixing device. N. Miller. No. 1,418,600; June 6.
- Stamp-affixing machine. E. F. Bowen and E. J. Scott. No. 1,429,321; Sept. 19.
- Stamp-affixing machine. H. J. Burr. Nos. 1,406,534-5; Feb. 14.
- Stamp-affixing machine. H. H. Daniels. No. 1,433,187; Oct. 24.
- Stamp-affixing machine. D. E. Plumlee and A. E. Gruber. No. 1,405,324; Jan. 31.
- Stamp-affixing machine. W. F. Schweiger. No. 1,426,780; Aug. 22.
- Stamp-affixing machine. A. and J. Villani. No. 1,417,262; May 23.
- Stamp, Band. M. L. Willard. No. 1,405,811; Feb. 7.
- Stamp battery and the like. E. B. Hack. No. 1,437,515; Dec. 5.
- Stamp, Box-press. J. I. Pogue. No. 1,427,843; Sept. 5.
- Stamp-delivery machine, Automatic. H. Thun. No. 1,427,136; Aug. 29.
- Stamp, Hand. P. L. Nordin. No. 1,408,389; Feb. 28.
- Stamp, Hand. S. A. Rauch. No. 1,431,842; Oct. 10.
- Stamp, Hand. M. Rumpf and W. E. Nimz. No. 1,405,444; Feb. 7.
- Stamp, Impression. O. E. Sonne, R. W. Proctor, and A. E. Miller. No. 1,411,892; Apr. 4.
- Stamp pad, Resilient. R. H. Kee and W. K. Munson. No. 1,421,952; July 4.
- Stamp pad, Self-feed lettering-. A. B. Jones. No. 1,408,207; Feb. 28.
- Stamp receiver. E. M. Walsh. No. 1,422,152; July 11.
- Stamp, Ticket. S. D. McMillan. No. 1,432,769; Oct. 24.
- Stamp, Time. L. J. Melind. No. 1,411,290; Apr. 4.
- Stamp, Time. M. Sheras. No. 1,430,031; Sept. 26.
- Stamped metal wheel. L. Fine. No. 1,404,382; Jan. 24.
- Stamping device. J. A. Campbell. No. 1,420,686; June 27.
- Stamping device, Rotary. A. Hauser and M. T. Lothrop. No. 1,429,944; Sept. 26.
- Stamping dies, Sheet-metal. C. B. Weaver. No. 1,408,787; Mar. 7.
- Stamping machine. W. E. Bishop. No. 1,416,442; May 16.
- Stamping machine. T. Lund. No. 1,421,511; July 4.
- Stamping machine. F. W. Phillips. No. 1,439,753; Dec. 26.
- Stamping machine, Computing-card-. G. W. Odell. No. 1,406,067; Feb. 7.
- Stamping machine, for cutting out articles from sheet metal. T. H. Wilson. (Reissue). No. 15,402; July 4.
- Stamping machines, Hydraulic windlass for drop. J. A. Perony. No. 1,417,856; May 30.
- Stamping mechanism. E. Nordstrom. No. 1,426,000; Aug. 15.
- Stamps and the like to packages or containers, Machine for applying. G. W. Gwinn and J. W. Leary. No. 1,425,250; Aug. 8.
- Stamps or labels, Apparatus for preparing and applying. M. Fogde and L. P. Southwick. No. 1,435,459; Nov. 14.
- Stanchion. W. H. and H. R. Guyette. No. 1,435,158; Nov. 14.
- Stanchion. P. A. Henning, Jr. No. 1,408,294; Feb. 28.
- Stanchion. E. Houle. No. 1,409,859; Mar. 14.
- Stanchion. E. C. and E. H. Sherwin. No. 1,402,902; Jan. 10.
- Stanchion, Portable. J. F. Evers. No. 1,427,274; Aug. 29.
- Stanchion support. J. M. B. Lewis. No. 1,417,184; May 23.
- Stanchions, Aligning means for. H. C. Rassmann. No. 1,415,117; May 9.
- Stanchions, Supporting and aligning means for. H. C. Rassmann. No. 1,404,057; Jan. 17.
- Stand: See—
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| Air stand. | Golf stand. |
| Automobile repair stand. | Hammock stand. |
| Banker's protecting stand. | Hose stand. |
| Barrel stand. | Lamp stand. |
| Blacking stand. | Motor stand. |
| Bur stand. | Motor-cycle stand. |
| Butchering stand. | Picture-frame stand. |
| Casing and stand. | Pipe vise stand. |
| Christmas-tree stand. | Railway-switch stand. |
| Churn stand. | Range-boiler stand. |
| Cigarette stand. | Repair stand. |
| Collapsible stand. | Shoe-polishing stand. |
| Convertible window-cleaner's stand. | Skate stand. |
| Desk stand. | Switch stand. |
| Display stand. | Tape-measure stop-motion stand. |
| Dressing stand. | Telephone-receiver stand. |
| Embalmer's operating stand. | Tobacco-pipe stand. |
| Emery-wheel stand. | Tree stand. |
| Engine stand. | Umbrella stand. |
| Engine-repair stand. | Vise stand. |
| Finger-print stand. | Web-roll stand. |
| Flower stand. | Work stand. |
| Folding basket stand. | X-ray stand. |
| Fountain-pen stand. | |
- Stand. D. Semel. No. 1,438,062; Dec. 5.
- Stand. H. G. Tiffany. Nos. 1,426,327-8; Aug. 15.
- Stand and table, Convertible. J. B. Ogden. No. 1,422,613; July 11.
- Stand for displaying goods for sale or inspection. J. Mansell-Phayre. No. 1,412,126; Apr. 11.
- Standpipe connection. L. Wilputte. No. 1,414,492; May 2.
- Stands, Adjustable foot rest for shoe-shining. J. E. Walker. No. 1,424,959; Aug. 8.
- Staple-driving machine. J. Muth. No. 1,408,823; Mar. 7.
- Staple puller. W. N. Torgerson. No. 1,410,426; Mar. 21.
- Staple-setting device. K. C. Chamberlain. No. 1,406,974; Feb. 21.
- Staple strip. A. D. Tibbals. No. 1,407,709; Feb. 28.
- Stapling head. A. L. Watson. No. 1,434,936; Nov. 7.
- Stapling machine. H. G. Allen. No. 1,430,048; Sept. 26.
- Stapling machine. G. A. Edge. No. 1,411,007; Mar. 28.
- Stapling machine. C. E. Myers. No. 1,437,541; Dec. 5.
- Stapling machine, Multiple. H. B. Walter. No. 1,417,704; May 30.
- Stapling machine, Multiple. H. B. Walter. No. 1,418,853; June 6.
- Stapling machine, Multiple. H. B. Walter. No. 1,420,227; June 20.
- Star forms on fabrics, Method of and apparatus for making and sewing. J. A. Freeze. No. 1,426,172; Aug. 15.
- Star, Illuminated. A. Ludwig. No. 1,410,336; Mar. 21.
- Starch buck. G. H. Nuss and C. F. Heckel. No. 1,405,067; Jan. 31.

- Starch-conversion product. R. E. Bright. No. 1,411,203; Mar. 28.
- Starch-conversion products, Preparing. R. E. Bright. No. 1,411,204; Mar. 28.
- Starch, Method of and apparatus for processing. F. E. Rankin. No. 1,411,934; Apr. 4.
- Starch mixture, Apparatus for handling. D. H. Benjamin. No. 1,418,273; June 6.
- Starch mixtures, Handling. D. H. Benjamin. No. 1,418,275; June 6.
- Starch, Preparing. D. H. Benjamin. No. 1,418,274; June 6.
- Starch-preparing apparatus. E. W. Miller. No. 1,418,320; June 6.
- Starch, Producing laundry. E. N. McVeigh. No. 1,406,050; Feb. 7.
- Starch products, Making soluble. A. W. H. Lenders and H. F. Bauer. No. 1,418,311; June 6.
- Starching machine. G. G. McCamant. No. 1,433,215; Oct. 24.
- Starter, Air-compression. W. C. Garwood and C. P. Weber. No. 1,405,913; Feb. 7.
- Starter and controller, Automatic. R. D. Ernest. (Re-issue.) No. 15,258; Jan. 3.
- Starter, Electric. O. C. Brisbois. No. 1,426,274; Aug. 15.
- Starter, Engine. G. C. Wildman. No. 1,408,669; Mar. 7.
- Starter, Impulse. K. H. Mörck. No. 1,407,077; Feb. 21.
- Starter support, Kick-. C. B. Franklin. No. 1,420,479; June 20.
- Starting and stopping mechanism. S. A. Dobyne. No. 1,436,019; Nov. 21.
- Starting and unloading device. F. B. Thomas. No. 1,422,902; July 18.
- Starting device, Automatic. V. Boscato. No. 1,404,086; Jan. 17.
- Starting device, Motor-. J. O. Q. Johnson. No. 1,422,063; July 4.
- Starting or ignition systems, Reinforced primary for. C. P. Brockway. No. 1,434,588; Nov. 7.
- Starting switch, Motor-. H. L. Van Valkenburg. No. 1,420,789; June 27.
- Starting system. E. H. Schwarz. No. 1,405,942; Feb. 7.
- Station, Filling. W. D. Smith. No. 1,410,478; Mar. 21.
- Station indicator. F. Mashinski. No. 1,436,183; Nov. 21.
- Station indicator. H. McNicholas. No. 1,425,879; Aug. 15.
- Station indicator. S. Mitchell. No. 1,414,369; May 2.
- Station indicator. H. J. Pendray. No. 1,417,765; May 30.
- Station, Receiving. L. M. Clement. No. 1,415,992; May 16.
- Stationary attachment. E. W. Otto. No. 1,430,841; Oct. 3.
- Stator. W. A. and F. W. Marschke. No. 1,403,179; Jan. 10.
- Stay bolt. J. F. L. Baker. No. 1,411,261; Apr. 4.
- Stay bolt. J. R. Flannery and E. I. Dodds. Nos. 1,403,760-1; Jan. 17.
- Stay bolt. R. S. Mennie. No. 1,438,845; Dec. 12.
- Stay bolt, Articulated. A. F. Pitkin. No. 1,430,321; Sept. 26.
- Stay-bolt construction. E. I. Dodds. No. 1,417,150; May 23.
- Stay bolt for steam boilers. A. F. Pitkin. No. 1,432,085; Oct. 17.
- Stay-bolt structure. E. I. Dodds. Nos. 1,403,744-8; Jan. 17.
- Stay-bolt structure. E. I. Dodds. No. 1,409,157; Mar. 14.
- Stay-bolt structure. E. I. Dodds. Nos. 1,410,004-6; Mar. 21.
- Stay-bolt structure. E. I. Dodds. Nos. 1,410,387-8; Mar. 21.
- Stay-bolt structure. E. I. Dodds. No. 1,417,149; May 23.
- Stay-bolt structure. J. R. Flannery. No. 1,409,162; Mar. 14.
- Stay-bolt structure. F. K. Landgraf. No. 1,410,480; Mar. 21.
- Stay-bolt structure. R. S. Mennie. No. 1,424,733; Aug. 1.
- Stay-bolt structure. B. E. D. Stafford and E. I. Dodds. No. 1,417,115; May 23.
- Stay-bolt structure. B. E. D. Stafford and F. K. Landgraf. No. 1,434,413; Nov. 7.
- Stay-bolt tap. G. M. Brubaker, jr. No. 1,434,870; Nov. 7.
- Stay bolts, Securing. W. Zwilling. No. 1,404,561; Jan. 24.
- Stay bolts, Sheet connection for steam-boiler. A. F. Pitkin. No. 1,435,733; Nov. 14.
- Stay rod. V. Andrioli. No. 1,412,502; Apr. 11.
- Steam and internal-combustion engine, Combination. A. V. Da Costa. No. 1,433,185; Oct. 24.
- Steam blower. C. S. Hoffelinger. No. 1,404,854; Jan. 31.
- Steam boiler. E. I. Dodds. No. 1,424,559; Aug. 1.
- Steam boiler. W. F. Kiesel, jr. No. 1,433,378; Oct. 24.
- Steam boiler. F. Neudorff and R. R. Reid. No. 1,432,722; Oct. 17.
- Steam boiler. D. W. Robb. No. 1,434,502; Nov. 7.
- Steam boiler. W. F. Stern. No. 1,424,322; Aug. 1.
- Steam boiler. W. F. Wegner. No. 1,408,052; Feb. 28.
- Steam boiler and making the same. W. E. Cleveland. No. 1,420,182; June 20.
- Steam boiler and superheater therefor. C. E. Ward. No. 1,436,838; Nov. 28.
- Steam-boiler economizers, Method of and apparatus for operating. D. S. Jacobus. No. 1,416,353; May 16.
- Steam boiler, Oil-fired. B. Greenfield. No. 1,423,764; July 25.
- Steam-boiler system. J. J. Mildon. No. 1,402,430; Jan. 3.
- Steam boiler with forced-draft furnace. C. Kohler. No. 1,423,335; July 18.
- Steam boilers, Accessory for. I. Harter. No. 1,412,865; Apr. 18.
- Steam boilers and the like, Apparatus for purifying water for. L. Savary-Carlier. No. 1,413,937; Apr. 25.
- Steam boilers, Method and means for blocking saddles for. R. Rees. No. 1,413,492; Apr. 18.
- Steam boilers, Method and means for purifying water for. J. D. Reekie and G. M. Crossen. No. 1,440,103; Dec. 26.
- Steam boilers, Method of and means for blocking or corrugating headers for. R. Rees. No. 1,415,706; May 9.
- Steam boilers, Self-starting injector for. J. Hall. No. 1,422,199; July 11.
- Steam boilers, Vaporizing system for producing high-grade feed water for. H. Balcke. No. 1,432,521; Oct. 17.
- Steam circulating and regenerating system. J. O. Woodsome and J. H. Swan. No. 1,428,198; Sept. 5.
- Steam condenser. J. H. Bartels. No. 1,420,402; June 20.
- Steam connection for collapsible cores. C. H. Desautels. No. 1,434,431; Nov. 7.
- Steam cooker. W. A. Duncan. No. 1,421,425; July 4.
- Steam ejector. M. C. A. Leblanc. No. 1,422,582; July 11.
- Steam engine. P. H. Darrah. No. 1,438,521; Dec. 12.
- Steam engine. J. H. Tate. No. 1,406,700; Feb. 14.
- Steam engine. J. D. White and D. S. Stout. No. 1,428,464; Sept. 5.
- Steam-engine cycle. F. J. Wood. No. 1,434,079; Oct. 31.
- Steam engine, Rotary. C. O. Baner. No. 1,421,892; July 4.
- Steam engine, Rotary. J. del Moral. No. 1,428,477; Sept. 5.
- Steam engine, Rotary. G. Shields. No. 1,406,503; Feb. 14.
- Steam engine, Uniflow. B. V. Nordberg. No. 1,409,309; Mar. 14.
- Steam-generating plant. H. W. Bell. No. 1,436,078; No. 21.
- Steam generator. W. S. Bowen. Nos. 1,415,777-8; May 9.
- Steam generator. C. H. Lewis. No. 1,410,583; Mar. 28.
- Steam generator. J. F. Lindberg. No. 1,406,044; Feb. 7.
- Steam generator. G. B. Maddocks. No. 1,413,863; Apr. 25.
- Steam generator. J. B. Rogillio. No. 1,415,952; May 16.
- Steam generator. T. Takuma. No. 1,435,032; Nov. 7.
- Steam-generator. J. Taylor. No. 1,427,176; Aug. 29.
- Steam generators, Means for using pulverized fuel in the furnaces of. J. G. Robinson. No. 1,416,512; May 16.
- Steam or other vapor generators, Apparatus for regulating the liquid level of. J. Haag. No. 1,410,805; Mar. 28.
- Steam packing joint. C. Stickle. No. 1,431,705; Oct. 10.
- Steam-pipe rack drier. G. E. Luce. No. 1,433,085; Oct. 24.
- Steam-pressure-regulating mechanism. W. B. Fulton. No. 1,414,506; May 2.
- Steam shovels and the like, Dipper attachment for. R. H. Lutz. No. 1,410,201; Mar. 21.
- Steam table for food. A. M. Demuth. No. 1,430,006; Sept. 26.
- Steam trap. C. H. Atkins. No. 1,422,069; July 11.
- Steam trap. G. W. Collin. No. 1,410,656; Mar. 28.
- Steam trap. R. Löffler. No. 1,426,205; Aug. 15.
- Steam trap. C. E. Lowell. No. 1,420,718; June 27.
- Steam-trap. G. A. Molique. No. 1,427,116; Aug. 29.
- Steam trap. J. Sabin. No. 1,425,340; Aug. 8.
- Steam trap. C. E. Walsh. No. 1,427,987; Sept. 5.
- Steam trap. F. W. Wandless. No. 1,407,009; Feb. 21.
- Steam trap, Automatically-working. G. Massip. No. 1,406,747; Feb. 14.
- Steamer, Condensing. S. Thompson. No. 1,439,204; Dec. 19.
- Steaming device and condenser. A. J. Wissing. No. 1,440,199; Dec. 26.
- Steel alloy, Noncorrosive. W. Belleville. No. 1,424,612; Aug. 1.
- Steel alloys which contain chromium and nickel, Treating. B. Strauss. No. 1,404,908; Jan. 31.
- Steel and iron, Protective coating for. T. A. Edison. No. 1,410,391; Mar. 21.
- Steel and producing same from nickel ore, Alloy for forging. L. P. Burrows. No. 1,424,710; Aug. 1.
- Steel and producing same, Rust-resisting. J. H. Gravell. No. 1,428,087; Sept. 5.
- Steel-cushion wheel. A. C. Hoof. No. 1,422,976; July 18.
- Steel cutter, Sheet. F. M. Joslin. No. 1,420,929; June 27.
- Steel-cutting machine. J. Pitrus. No. 1,425,894; Aug. 15.
- Steel feed collet and making the same, Drawn-. C. J. Fancher and R. A. Johnson. No. 1,433,881; Oct. 31.
- Steel for casehardening, Determining the suitability of. H. W. McQuaid. No. 1,425,787; Aug. 15.
- Steel, Heat treatment of manganese. W. G. Nichols. No. 1,427,121; Aug. 29.
- Steel, Heat treatment of nickel-chrome. B. Strauss. No. 1,404,907; Jan. 31.

Alphabetical list of inventions—Continued.

- Steel, Low-percentage manganese. J. M. Blake. No. 1,439,939; Dec. 26.
- Steel, Machine for cleaning scale from annealed. R. N. Logan. No. 1,433,631; Oct. 31.
- Steel, Making alloy. J. McConnell. No. 1,420,328; June 20.
- Steel manufacture. R. A. Hadfield. No. 1,435,294; Nov. 14.
- Steel manufacture. R. A. Hadfield. No. 1,435,840; Nov. 14.
- Steel, Manufacture of. R. A. Hadfield. No. 1,410,749; Mar. 28.
- Steel, Manufacture of open-hearth. H. C. Ryding and A. W. Allen. No. 1,423,031; July 18.
- Steel, Manufacturing. J. C. Beneker. No. 1,431,621; Oct. 10.
- Steel plate, Reinforced. R. A. Nelson. No. 1,427,120; Aug. 29.
- Steel, Producing silicon-manganese-chrome. G. Gustafson, A. A. Jungmarker, and K. A. Caspersson. No. 1,423,847; July 25.
- Steel, Recovering manganese. W. G. Nichols. (Re-issue.) No. 15,435; Aug. 22.
- Steel sheets, Hardening of thin. N. P. Petersen. No. 1,431,680; Oct. 10.
- Steel sheets, Hot-rolling extremely thin. W. E. Hanna. No. 1,426,730; Aug. 22.
- Steel tank construction. W. M. Nichols and R. L. Harding. No. 1,402,949; Jan. 10.
- Steel tubing, Die track for forming spiral. J. Fentress. No. 1,417,050; May 23.
- Steel tubes, Treatment by pressure of cast and forged. A. E. Guy. No. 1,419,845; June 13.
- Steel wheel structure and making same. Pressed. C. Schenck. No. 1,404,410; Jan. 24.
- Steel wheels, Making sheet. J. Ledwinka. No. 1,434,713; Nov. 7.
- Steel-wood holder. H. L. Male. No. 1,417,619; May 30.
- Steeplechase device. L. O'Neill, sr., and L. O'Neill, jr. No. 1,427,010; Aug. 22.
- Steering apparatus attachment. W. P. Shomaker. No. 1,435,423; Nov. 14.
- Steering-column assembly. H. M. Denyes. No. 1,438,935; Dec. 12.
- Steering-column control unit. S. F. Briggs and E. N. Jacobi. No. 1,425,170; Aug. 8.
- Steering-control device. L. J. Lindsay. No. 1,435,403; Nov. 14.
- Steering device. P. Henze. No. 1,439,816; Dec. 26.
- Steering device. R. H. Moore. No. 1,436,773; Nov. 28.
- Steering device. R. C. Newhouse. No. 1,425,678; Aug. 15.
- Steering device. A. A. Sietzke. No. 1,403,708; Jan. 17.
- Steering device. E. J. Rella. No. 1,416,986; May 23.
- Steering device and gauge, Combination. R. A. Crosby and E. L. Colson. No. 1,405,901; Feb. 7.
- Steering device and gauge, Combination. R. A. Crosby and E. L. Colson. No. 1,412,454; Apr. 11.
- Steering device, Automatic. N. Minorsky. No. 1,436,280; Nov. 21.
- Steering device, Extension. M. Cline and F. Herge. No. 1,402,838; Jan. 10.
- Steering device, Extension. O. M. Hatcher and J. C. Campbell. No. 1,417,320; May 23.
- Steering devices, Antirattle device for. J. D. Lowe. No. 1,417,674; May 30.
- Steering gear. J. A. House. No. 1,430,448; Sept. 26.
- Steering gear. D. E. Ross. Nos. 1,429,101-3; Sept. 12.
- Steering gear. M. Sorensen. No. 1,435,990; Nov. 21.
- Steering gear and front axle. E. E. Hans. No. 1,141,494; Apr. 4.
- Steering-gear and fuel-tank support. A. C. Mason. No. 1,417,192; May 23.
- Steering-gear antirattler. E. L. Sloan. No. 1,430,122; Sept. 26.
- Steering-gear connection. R. G. Beechler. No. 1,439,788; Dec. 26.
- Steering gear for motor-propelled vehicles. K. S. Gingerick. No. 1,429,029; Sept. 12.
- Steering gear for road machines. F. E. Arndt. (Reissue.) No. 15,443; Sept. 5.
- Steering gear, Ship's. J. R. Clay. No. 1,408,929; Mar. 7.
- Steering gear, Trailer. O. E. Byron. No. 1,427,513; Aug. 29.
- Steering-gear stabilizer. G. Y. Beal. No. 1,428,515; Sept. 12.
- Steering gears, Antilock device for. W. F. Staggers. No. 1,423,820; July 25.
- Steering gears, Antirattling joint for. N. A. Locke. No. 1,418,005; May 30.
- Steering gears, Drag link for. F. P. Williams. No. 1,418,044; May 30.
- Steering knuckles, Antirattler for. E. J. Gulick. No. 1,414,737; May 2.
- Steering mechanism. F. Aliquo. No. 1,420,231; June 20.
- Steering mechanism. C. A. Davis. No. 1,410,381; Mar. 21.
- Steering mechanism. S. A. Dutton. No. 1,432,237; Oct. 17.
- Steering mechanism. C. Johnson and F. G. Meyer. No. 1,415,095; May 9.
- Steering mechanism. R. A. Mack. No. 1,422,284; July 11.
- Steering mechanism. G. T. Nelson. No. 1,419,977; June 20.
- Steering mechanism. C. B. Post. No. 1,405,435; Feb. 7.
- Steering mechanism. G. Riesner. No. 1,427,641; Aug. 29.
- Steering mechanism. A. D. Trenor. No. 1,428,568; Sept. 12.
- Steering mechanism for motor vehicles. E. P. Le Compte. No. 1,434,216; Oct. 31.
- Steering mechanism, Stop device for. W. Somers. No. 1,410,963; Mar. 28.
- Steering mechanisms, Automatic locking and retaining device for. A. Borofsky. No. 1,415,300; May 9.
- Steering-post transmission mechanism. E. Schmaller. No. 1,426,914; Aug. 22.
- Steering-post transmission mechanism. E. Schmaller. No. 1,426,915; Aug. 22.
- Steering system, Hydraulic. G. Darroch. No. 1,426,822; Aug. 22.
- Steering-system lock. J. L. Cook. No. 1,419,024; June 6.
- Steering wheel. C. W. Johnson. No. 1,431,665; Oct. 10.
- Steering wheel. A. L. Lambert. No. 1,404,035; Jan. 17.
- Steering wheel. A. E. Paige. No. 1,416,413; May 16.
- Steering wheel. J. B. La Pierre. No. 1,403,968; Jan. 17.
- Steering wheel. W. C. Rastetter. No. 1,420,446; June 20.
- Steering wheel. W. C. Rastetter. No. 1,437,196; Nov. 28.
- Steering wheel. E. C. Speckhard. No. 1,438,193; Dec. 12.
- Steering wheel. E. R. Thomas. No. 1,420,462; June 20.
- Steering wheel. W. L. Tobias. No. 1,422,323; July 11.
- Steering wheel. E. H. Vincent. No. 1,438,005; Dec. 5.
- Steering wheel. L. E. Willett. No. 1,417,122; May 23.
- Steering wheel. F. D. Wilson. No. 1,419,434; June 13.
- Steering wheel, Adjustable. V. W. Page. No. 1,402,535; Jan. 3.
- Steering wheel, All-wood. C. H. Kenrick. No. 1,434,616; Nov. 7.
- Steering wheel and lock therefor. D. C. and E. F. Gossett. No. 1,414,405; May 2.
- Steering-wheel attachment, Smoker's. M. O. Burnett. No. 1,432,015; Oct. 17.
- Steering wheel, Brake for. J. E. Landry. No. 1,435,313; Nov. 14.
- Steering wheel, Combined tilting and sliding. G. H. Cocks. No. 1,414,458; May 2.
- Steering-wheel construction. E. J. Lobdell, jr. No. 1,427,487; Aug. 29.
- Steering wheel, Divisible locking. P. W. Reck. No. 1,426,773; Aug. 22.
- Steering wheel, Foldable. D. A. Hanes. No. 1,416,636; May 16.
- Steering-wheel heater. L. J. Cobus. No. 1,416,946; May 23.
- Steering-wheel lock. E. E. Adams. No. 1,409,640; Mar. 14.
- Steering-wheel lock. A. H. Dunlap. No. 1,438,102; Dec. 5.
- Steering-wheel lock. P. Persson. No. 1,411,508; Apr. 4.
- Steering-wheel lock. L. Ronca. No. 1,429,696; Sept. 19.
- Steering-wheel lock. M. R. White. No. 1,417,647; May 30.
- Steering-wheel lock. S. Wise. No. 1,410,637; Mar. 28.
- Steering-wheel lock, Combination. P. Kish. No. 1,428,963; Sept. 12.
- Steering wheel, Locking and tilting. E. H. Vincent. No. 1,438,004; Dec. 5.
- Steering wheel, Motor-vehicle. E. P. Elzey. No. 1,430,733; Oct. 3.
- Steering-wheel posts, Counterbalancing device for. P. Link. No. 1,425,109; Aug. 8.
- Steering wheels, Combination lock for. M. A. Whittle. No. 1,412,022; Apr. 4.
- Steering wheels, Corrugating machine for. H. Matsen. No. 1,411,055; Mar. 28.
- Steering wheels, Electric heater for. E. S. Tesdell. No. 1,429,799; Sept. 19.
- Steering wheels, Joint for. F. H. Jourdan. No. 1,439,002; Dec. 19.
- Steering wheels, Locking device for. H. C. Miller. No. 1,421,020; June 27.
- Steering wheels, Locking device for. H. C. Miller. No. 1,428,649; Sept. 12.
- Steering wheels, Tilting and locking device for. R. S. Busby. No. 1,424,555; Aug. 1.
- Stem-making machine. L. E. Mitchell and A. J. White. No. 1,423,957; July 25.
- Stencil. L. Wallenstein. No. 1,413,246; Apr. 18.
- Stenciling device. R. W. Erdle. No. 1,419,663; June 13.
- Stenciling device. E. F. Hill. No. 1,426,067; Aug. 15.
- Stencil-making machine. E. E. Gompers, L. Weyl, and P. Hein. No. 1,425,246; Aug. 8.
- Step. W. A. Mitchell. No. 1,436,281; Nov. 21.
- Step, Luminous. D. B. Webster and F. J. Richardson. No. 1,439,210; Dec. 19.
- Step-cutting device. C. H. Madsen. No. 1,419,875; June 13.
- Stepladder. F. J. Caronia. No. 1,415,791; May 9.
- Stepladder. J. M. H. Jacobs. No. 1,439,419; Dec. 19.
- Stepladder. C. M. Waggoner. No. 1,415,739; May 9.
- Stepladder. B. E. Willett. Nos. 1,439,388-9; Dec. 19.
- Stepladder, Extension-top. J. F. Parkinson. No. 1,425,274; Aug. 8.
- Stepladder stool, Folding. J. F. Holliday. No. 1,427,293; Aug. 29.
- Step tread. F. H. Stanwood. No. 1,436,414; Nov. 21.
- Step plate. F. H. Stanwood. No. 1,409,125; Mar. 7.
- Step plate. F. H. Stanwood. No. 1,420,776; June 27.
- Steps, Extension. J. Szcurek. No. 1,419,992; June 20.
- Stereoisohypsograph. W. Sander. No. 1,435,983; Nov. 21.

- Stereoisohypsograph. O. von Gruber. No. 1,435,961; Nov. 21.
- Stereoisohypsograph. E. von Orel and W. Sander. No. 1,436,220; Nov. 21.
- Stearate-casting boxes, Device for holding matrices in. C. Winkler. No. 1,407,615; Feb. 21.
- Stereopticon-slide carrier. L. G. Shryock. No. 1,414,488; May 2.
- Stereotype-casting frame. J. W. Peckham. No. 1,423,146; July 18.
- Stereotype plates, Machine for casting curved. C. E. Hopkins. No. 1,433,550; Oct. 31.
- Stereotype plates, Machine for casting curved. C. Winkler. No. 1,413,446; Apr. 18.
- Stereotype plates, Mold for casting. C. Winkler. No. 1,420,464; June 20.
- Stereotype plates, Press for forming. W. E. Graves. No. 1,439,546; Dec. 19.
- Stereotype printing plates and tails from a finishing machine, Device for delivering. H. A. W. Wood. No. 1,418,417; June 6.
- Stereotype printing plates, Cooling finished. C. E. Hopkins. No. 1,416,714; May 23.
- Stereotyper's and printer's tool. S. B. Hopkins. No. 1,421,689; July 4.
- Stereotyping dong. A. G. Hawkins. No. 1,425,474; Aug. 8.
- Sterilizer. J. A. and J. L. Anderson. No. 1,408,429; Mar. 7.
- Sterilizer. E. J. Barrows. No. 1,437,882; Dec. 5.
- Sterilizer. A. W. Bensman. No. 1,435,143; Nov. 14.
- Sterilizer. A. D. Pentz, jr. No. 1,430,925; Oct. 3.
- Stickpin. R. O. Ross. No. 1,438,262; Dec. 12.
- Sterilizer. A. J. Walter. No. 1,430,421; Sept. 26.
- Sterilizer for instruments and dressings. O. Barta. No. 1,421,893; July 4.
- Sterilizing and cooling apparatus. S. M. Crawford. No. 1,405,816; Feb. 7.
- Sterilizing and drying apparatus, Can. T. L. Valerius. No. 1,430,201; Sept. 26.
- Sterilizing apparatus. D. E. Dufresne and W. Adamson. No. 1,419,031; June 6.
- Sterilizing apparatus. F. H. Landrum and A. M. Cramer. No. 1,417,182; May 23.
- Sterilizing vegetable products, Apparatus for. J. Diner. No. 1,409,286; Mar. 14.
- Sterilizing water and sewage. J. C. Baker. No. 1,413,153; Apr. 18.
- Stethoscope. J. D. Pollard. No. 1,410,034; Mar. 21.
- Sticker fastenings, Making. A. H. Swett. No. 1,406,300; Feb. 14.
- Still. E. W. Isom and J. E. Bell. No. 1,432,067; Oct. 17.
- Still. S. E. Oliver. No. 1,419,894; June 13.
- Still, Hydrocarbon. J. C. Pool. No. 1,436,526; Nov. 21.
- Still, Water. L. J. B. Schnug. No. 1,429,541; Sept. 10.
- Stills, Apparatus for effecting circulation and maintaining clean surfaces in. A. D. Smith. No. 1,403,980; Jan. 17.
- Stills, Damper control for oil. J. Primrose. No. 1,425,896; Aug. 15.
- Stilt. J. J. Stephens and C. B. Harris. No. 1,427,030; Aug. 22.
- Stilt, Adjustable. R. A. Summers. No. 1,418,685; June 6.
- Stirrer. W. O. Chace. No. 1,416,332; May 16.
- Stirrer or mixer. B. C. Low. No. 1,410,199; Mar. 21.
- Stirrup. W. T. Prater. No. 1,421,304; June 27.
- Stirrup, Automatic releasing. P. N. Winkley. No. 1,418,504; June 6.
- Stitch and upper cleaning machine. E. Erickson. No. 1,402,752; Jan. 10.
- Stitcher roll. W. B. Harsel. No. 1,438,158; Dec. 5.
- Stitching and embroidery machine, Ornamental. M. Horat. No. 1,413,274; Apr. 18.
- Stitching device. W. B. Harsel. No. 1,426,867; Aug. 22.
- Stitching machines, Delivery mechanism for signature. M. Christensen. No. 1,423,647; July 25.
- Stitching machines, Heater for. J. Stangl. No. 1,428,717; Sept. 12.
- Stitch-removing device. J. Botnar. No. 1,412,836; Apr. 18.
- Stitch-removing machine. F. Chateaufneuf. No. 1,412,041; Apr. 11.
- Stock and display case. M. Gross. No. 1,432,330; Oct. 17.
- Stock cutting machine. E. E. Winkley. No. 1,429,310; Sept. 19.
- Stock divider. E. C. Eberts. No. 1,417,045; May 23.
- Stock, Drinking cup for. B. A. Belling. No. 1,405,178; Feb. 7.
- Stock feeder, Self-measuring. F. W. Wester. No. 1,406,125; Feb. 7.
- Stock-feeding apparatus, Automatic. C. P. Pauly. No. 1,405,431; Feb. 7.
- Stock-feeding bin. H. Mudge. No. 1,433,904; Oct. 31.
- Stock-feeding mechanism. F. L. Mackenzie. No. 1,432,770; Oct. 24.
- Stock-handling mechanism. F. J. Littell. No. 1,421,354; June 27.
- Stock-positioning mechanism. G. S. MacDowell and H. A. Perkins. No. 1,427,757; Aug. 29.
- Stock, Tuyère. S. R. Greene. No. 1,405,683; Feb. 7.
- Stock waterer. H. E. Ingvaldstad. No. 1,414,811; May 2.
- Stock waterer. J. E. W. and C. E. Richards. No. 1,429,535; Sept. 19.
- Stock waterer. T. Ritchie. No. 1,433,477; Oct. 24.
- Stocking examiner. M. K. O'Leary. No. 1,402,788; Jan. 10.
- Stocking-machine, Circular. G. P. Bosworth. No. 1,423,177; July 18.
- Stocking protector. M. S. Silver. No. 1,436,463; Nov. 21.
- Stockings, Making. S. B. Rains. No. 1,417,347; May 23.
- Stockings on forms, Drying. C. W. Schwartz. No. 1,411,876; Apr. 4.
- Stockings, Refooting. H. A. Berendsen. No. 1,424,708; Aug. 1.
- Stoker. J. MacPherson, jr. No. 1,424,575; Aug. 1.
- Stoker. C. F. Miller. No. 1,406,884; Feb. 14.
- Stoker. J. E. Reese. No. 1,403,868; Jan. 17.
- Stoker. G. H. Thacher, Jr. No. 1,406,702; Feb. 14.
- Stoker, Automatic. H. C. Ford. No. 1,425,519; Aug. 15.
- Stoker, Automatic. L. R. Stowe. No. 1,405,072; Jan. 31.
- Stoker feeding attachment. J. C. Casler. No. 1,415,146; May 9.
- Stoker furnace. J. B. Leonard and J. F. Dirzuweit. No. 1,403,609; Jan. 17.
- Stoker, Locomotive. M. M. Lower. No. 1,423,533; July 25.
- Stoker, Mechanical. J. J. Dersom. No. 1,421,419; July 4.
- Stoker, Mechanical. C. Erith. No. 1,431,822; Oct. 10.
- Stoker, Mechanical. A. B. Fahnestock. No. 1,405,677; Feb. 7.
- Stoker, Mechanical. E. Lundgren. No. 1,406,199; Feb. 14.
- Stoker of the underfeed type, Automatic. M. Ratel. (Re-issue.) No. 15,462; Sept. 26.
- Stoker, Screw-feed. J. S. Skelly. No. 1,405,948; Feb. 7.
- Stoker, Shovel. G. A. W. Revermann. No. 1,438,785; Dec. 12.
- Stoker, Underfeed. C. F. Miller. No. 1,406,883; Feb. 14.
- Stoker, Underfeed. R. S. Riley. No. 1,418,831; June 6.
- Stokers. Air-distributing box for. A. Watley. No. 1,419,183; June 13.
- Stokers, Coal agitator for mechanical. R. S. Riley. No. 1,409,972; Mar. 21.
- Stokers, Coal agitator for mechanical. R. S. Riley. No. 1,413,428; Apr. 18.
- Stokers, Conveying apparatus for mechanical. A. B. Fahnestock. No. 1,436,870; Nov. 28.
- Stokers, Dumping grate for. G. H. Thacker, jr. No. 1,436,215; Nov. 21.
- Stokers, Fuel conveying and crushing mechanism for locomotive. N. M. Lower. No. 1,404,985; Jan. 31.
- Stokers, Operating mechanism for automatic. E. B. Bryant. No. 1,416,547; May 16.
- Stokers, Refuse grinder and discharge mechanism for. O. Aram. No. 1,405,814; Feb. 7.
- Stone and the like, Apparatus for making artificial. E. C. Hodges. No. 1,433,204; Oct. 24.
- Stone crusher. G. E. Krider. No. 1,417,889; May 23.
- Stone gatherer. O. F. Reiter. No. 1,425,544; Aug. 15.
- Stone-gathering machine. C. K. Nagy. No. 1,406,063; Feb. 7.
- Stone, Heating. C. A. Burridge. No. 1,403,146; Jan. 10.
- Stone picker. E. C. Clark. No. 1,425,078; Aug. 8.
- Stone-polishing wheel. O. E. Philbrick. No. 1,404,139; Jan. 17.
- Stone press roll. J. W. Vedder. No. 1,430,418; Sept. 26.
- Stone raker. J. A. Browne. No. 1,405,750; Feb. 7.
- Stone-working table. H. D. Morrill. No. 1,406,477; Feb. 14.
- Stones, Ornamenting the surfaces of. S. Rizzon and R. Ciccioli. No. 1,410,721; Mar. 28.
- Stones, Press for the manufacture of. C. H. Schol. No. 1,429,459; Sept. 19.
- Stool. A. Miller and C. C. Matthews. No. 1,407,433; Feb. 21.
- Stool. C. Zimmerli. No. 1,437,630; Dec. 5.
- Stool, Camp. A. E. Gaudreau, A. J. Beaulieu, R. G. Gaudreau, and C. D. Gaudreau. No. 1,408,581; Mar. 7.
- Stool, Camp. A. E., R. J., C. D., and L. H. Gaudreau. No. 1,436,441; Nov. 21.
- Stool, Camp. G. Nesland. No. 1,417,680; May 30.
- Stool, Motorman's. J. S. Ralph. No. 1,417,565; May 30.
- Stool, Reversible seat. D. Garst. No. 1,407,403; Feb. 21.
- Stool, Treatment. J. V. McManis. No. 1,415,252; May 9.
- Stools or the like, Clutch for adjustable. C. R. Uhl. No. 1,435,627; Nov. 14.
- Stools or the like, Fitting for. R. K. Dawson. No. 1,416,693; May 23.
- Stop, Automatic. G. W. Beadle and S. Kohn. Nos. 1,430,567-8; Oct. 3.
- Stop, Automatic. F. C. Hinckley and J. J. Scully. No. 1,430,566; Oct. 3.
- Stop, Automatic. S. Kohn. No. 1,430,564; Oct. 3.
- Stop, Automatic. L. G. Larsen. No. 1,430,563; Oct. 3.
- Stopcock. G. T. Conrath. No. 1,416,173; May 16.
- Stop mechanism. F. C. Hinckley and J. F. Skane. No. 1,430,565; Oct. 3.
- Stop mechanism. J. J. Scully. No. 1,430,569; Oct. 3.
- Stop mechanism, Nonset automatic. I. Belloch. No. 1,429,059; Sept. 12.
- Stop motion. H. Berlin. No. 1,408,250; Feb. 28.
- Stop motion. E. F. and J. F. Connell. No. 1,423,398; July 18.
- Stop motion. J. A. Thomas. No. 1,411,198; Mar. 28.
- Stop motion. F. E. Valois. No. 1,422,640; July 11.
- Stop-motion device. W. G. Mills and H. E. Bisailon. No. 1,424,844; Aug. 8.

Alphabetical list of inventions—Continued.

- Stop motion, Warp. A. E. Rhoades. No. 1,419,077; June 6.
- Stop, Nonset automatic. C. B. O'Neill. No. 1,429,046; Sept. 12.
- Stop or locking device. H. Hopf. No. 1,434,541; Nov. 7.
- Stopper: See—
 Bottle stopper. Ear stopper.
 Bung-hole stopper. Heated stopper.
- Stopper. J. McFadden. No. 1,426,306; Aug. 15.
- Stopple. A. P. M. Klostermann and H. O. R. Lubke. No. 1,433,383; Oct. 24.
- Storage batteries, Detachable post for. W. H. Crissey. No. 1,403,737; Jan. 17.
- Storage batteries, Discharge indicator for. H. Lesley. No. 1,415,101; May 9.
- Storage batteries, Electrolyte indicator for. R. W. Millard and M. A. Michaels. No. 1,414,745; May 2.
- Storage batteries, etc., Operating. J. L. Creveling. No. 1,407,383; Feb. 21.
- Storage batteries, Nonfluid electrolytes for. A. H. Williams. No. 1,403,462; Jan. 10.
- Storage batteries, Receptacle for. C. Gallus. No. 1,402,591; Jan. 3.
- Storage batteries, Relief mechanism for. C. C. Carpenter. No. 1,403,539; Jan. 17.
- Storage battery. G. A. Baumetz. No. 1,415,139; May 9.
- Storage battery. T. R. Cook. No. 1,411,414; Apr. 4.
- Storage battery. R. H. Grant. No. 1,414,510; May 2.
- Storage battery. F. G. Manwaring. No. 1,419,396; June 13.
- Storage battery. P. M. Marko. No. 1,420,435; June 20.
- Storage battery. S. M. Meyer and W. James. No. 1,437,986; Dec. 5.
- Storage battery. S. M. Meyer and W. James. Nos. 1,440,023-4; Dec. 26.
- Storage battery. J. B. Speed and F. Hutchinson, jr. No. 1,426,786; Aug. 22.
- Storage battery. N. D. Sturges. No. 1,415,275; May 9.
- Storage battery. M. J. Towns. No. 1,433,669; Oct. 31.
- Storage battery. T. A. Willard. No. 1,425,924; Aug. 15.
- Storage battery. W. H. Wood. Nos. 1,405,702-3; Feb. 7.
- Storage battery. W. H. Wood. No. 1,432,937; Oct. 24.
- Storage battery and making it. W. H. Crissey. No. 1,415,804; May 9.
- Storage-battery cell. C. F. High. No. 1,413,226; Apr. 18.
- Storage-battery cell. R. D. Mowry. No. 1,415,257; May 9.
- Storage-battery clip. H. E. Walker. No. 1,439,457; Dec. 19.
- Storage-battery containers, Making. T. A. Willard. No. 1,421,748; July 4.
- Storage-battery cover. J. M. Skinner, S. H. Mortimer, and L. J. Pearson. No. 1,402,673; Jan. 3.
- Storage-battery cover remover, Portable electric. H. W. Lormor. No. 1,411,444; Apr. 4.
- Storage battery, Electric. E. Hacking. No. 1,421,217; June 27.
- Storage battery, Electric. M. Lechner. (Reissue.) No. 1,457; Sept. 19.
- Storage-battery electrolyte. R. E. Banks. No. 1,429,830; Sept. 19.
- Storage-battery element. J. C. Sundby. No. 1,417,214; May 23.
- Storage-battery grid. A. O. Garrett, C. E. Funnell, and W. L. Hoffman. No. 1,403,579; Mar. 7.
- Storage battery, Heat. G. L. Hogan. No. 1,433,010; Oct. 10.
- Storage-battery plate. C. C. Carpenter. No. 1,416,788; May 23.
- Storage-battery plate. R. Drambourgh. No. 1,403,394; Jan. 10.
- Storage-battery plates, Paste for. T. A. Willard. No. 1,432,508; Oct. 17.
- Storage-battery separator. G. Steerup. No. 1,403,577; Jan. 17.
- Storage-battery separator. G. Steerup. No. 1,416,761; May 23.
- Storage-battery separator. W. H. Wood. No. 1,432,939; Oct. 24.
- Storage-battery solution. G. Howard. No. 1,437,343; Nov. 28.
- Storage-battery terminal posts, Sealing structure for. P. E. Norris. No. 1,419,511; June 13.
- Storage-battery-ventilating system. C. C. King. No. 1,416,214; May 16.
- Storage box and table, Combined camp. H. O. Hanna. No. 1,402,290; Jan. 3.
- Storage device, Revolving. A. H. Jones. No. 1,429,435; Sept. 19.
- Storage heater. R. J. Pabodie. No. 1,425,273; Aug. 8.
- Storage heater. E. L. Worbois. No. 1,435,570; Nov. 14.
- Store. H. P. Howard. No. 1,435,395; Nov. 14.
- Store counter. E. Worthington. No. 1,411,765; Apr. 4.
- Store fixture. D. J. Seaman. No. 1,410,225; Mar. 21.
- Store fixture. L. M. Thompson. No. 1,439,534; Dec. 19.
- Store-front construction. V. Ross and E. S. Rhoads. No. 1,430,117; Sept. 26.
- Store, Mechanical adding-key. T. K. Dixon, J. C. Cox, and A. Klein. No. 1,404,280; Jan. 24.
- Store, Portable automobile grocery. A. L. Moseley. No. 1,425,789; Aug. 15.
- Store, Self-serving. W. B. McCarty. (Reissue.) No. 1,368; May 30.
- Store, Self-serving. C. Saunders. No. 1,437,554; Dec. 5.
- Store service. C. R. Ball. No. 1,408,679; Mar. 7.
- Store-service apparatus. J. L. Baldwin. No. 1,419,200; June 13.
- Stores, Lighting system for self-serving. C. Saunders. No. 1,407,680; Feb. 21.
- Storm and glare shield. H. Dickinson. No. 1,421,182; June 27.
- Stove. H. P. Ball. No. 1,411,250; Apr. 4.
- Stove. R. E. Campbell. No. 1,427,354; Aug. 29.
- Stove. A. B. Clark. No. 1,406,152; Feb. 7.
- Stove. J. H. Dean. No. 1,409,679; Mar. 14.
- Stove. T. A. Doughty. No. 1,402,924; Jan. 10.
- Stove. P. H. Hohman and E. E. Innis. No. 1,421,233; June 27.
- Stove. A. Holmquist. No. 1,415,349; May 9.
- Stove. I. King. No. 1,425,780; Aug. 15.
- Stove. L. Nanquette. No. 1,438,660; Dec. 12.
- Stove. H. Wagner. No. 1,431,494; Oct. 10.
- Stove. C. F. Wiley. No. 1,426,433; Aug. 22.
- Stove adapted to burn sawdust, shavings, and like workshop refuse. J. Jouclard. No. 1,428,782; Sept. 12.
- Stove, Aerated. C. L. Pichel. No. 1,404,640; Jan. 24.
- Stove, Air-heating. F. A. C. Skinner. No. 1,416,900; May 23.
- Stove and burner therefor. W. C. Coleman. No. 1,439,466; Dec. 19.
- Stove and furnace. G. W. Garvey. No. 1,410,909; Mar. 28.
- Stove and furnace. J. B. Gohmann. No. 1,422,195; July 11.
- Stove and furnace. E. Waldmann and S. Hokky. No. 1,426,674; Aug. 22.
- Stove and range. S. McClure. No. 1,428,853; Sept. 12.
- Stove attachment. J. O. Rollins. No. 1,434,151; Oct. 31.
- Stove board. J. Scheffer. No. 1,427,023; Aug. 22.
- Stove bolt, Snap. E. Witzberger. No. 1,426,237; Aug. 15.
- Stove bolt, Spring. E. Witzberger. No. 1,426,239; Aug. 15.
- Stove, Brooder. W. H. Walter. No. 1,434,273; Oct. 31.
- Stove burner. C. J. Clefthon. No. 1,428,146; Sept. 5.
- Stove, Camp. L. M. Boyle. No. 1,421,393; July 4.
- Stove, Camp. L. M. Boyle. No. 1,436,937; Nov. 28.
- Stove, Camp. H. E. Chambers and J. L. Downing. No. 1,403,842; Jan. 17.
- Stove, Camp. V. Lasbury. No. 1,420,043; June 20.
- Stove, Camping. J. W. Tiffany. No. 1,433,247; Oct. 24.
- Stove, Clothes-boiling and canning. B. A. Wright. No. 1,406,318; Feb. 14.
- Stove, Coal. L. Moore. No. 1,413,344; Apr. 18.
- Stove, Collapsible. H. W. Taylor. No. 1,404,808; Jan. 31.
- Stove, Collapsible field. I. C. Popper. No. 1,423,252; July 18.
- Stove, Collapsible knockdown camp. Z. D. Tallman. No. 1,411,596; Apr. 4.
- Stove construction. R. Hoffman. No. 1,416,956; May 23.
- Stove construction. W. C. P. Ott. No. 1,430,678; Oct. 3.
- Stove, Cook. L. B. de Laitte. No. 1,420,688; June 27.
- Stove, Cooking. A. H. Markee. No. 1,410,024; Mar. 21.
- Stove, Cooking. A. M. C. Pratt. No. 1,439,756; Dec. 2.
- Stove, Cooking. A. J. Reedy. No. 1,413,781; Apr. 25.
- Stove, Cooking. J. Shannon. No. 1,425,702; Aug. 15.
- Stove, Cooking. L. B. Sullivan. No. 1,430,125; Sept. 26.
- Stove, Cooking and heating. C. J. Lindbeck. No. 1,413,040; Apr. 18.
- Stove damper. A. Connelly. No. 1,402,214; Jan. 3.
- Stove door. E. E. Blackburn. No. 1,428,579; Sept. 12.
- Stove dry rack, Adjustable. W. Bensinger. No. 1,439,789; Dec. 26.
- Stove, Electric. A. Selvatico. No. 1,439,335; Dec. 19.
- Stove, Foldable. D. Neal. No. 1,428,113; Sept. 5.
- Stove, Folding camp. H. C. Hanson. (Reissue.) No. 1,5325; Apr. 4.
- Stove, Folding camp. F. M. Stoll. No. 1,435,346; Nov. 14.
- Stove, Folding camp. W. A. Tait and R. T. Giles. No. 1,438,345; Dec. 12.
- Stove for ships, Self-leveling. G. W. Baker. No. 1,421,890; July 4.
- Stove, Gas. A. E. Cobb. No. 1,427,069; Aug. 22.
- Stove, Gas. G. W. Howes. No. 1,410,183; Mar. 21.
- Stove, Gas. H. R. Humphrey. No. 1,425,096; Aug. 8.
- Stove, Gas. J. E. Kennedy. No. 1,415,576; May 9.
- Stove, Gas. J. E. Kennedy. No. 1,439,108; Dec. 19.
- Stove, Gas. H. W. O'Dowd. No. 1,425,043; Aug. 8.
- Stove, Gas. H. W. O'Dowd. No. 1,433,092; Oct. 24.
- Stove, Gas. H. W. O'Dowd. No. 1,435,938; Nov. 21.
- Stove, Gas. F. E. White. No. 1,419,792; June 13.
- Stove, Gas. T. E. Wood. No. 1,406,800; Feb. 14.
- Stove, Gas brooder. F. M. Molby. No. 1,410,532; Mar. 21.
- Stove, Heating. E. B. and J. Adler. No. 1,440,262; Dec. 26.
- Stove, Heating. C. Athey. No. 1,438,886; Dec. 12.
- Stove, Heating. W. P. Bechdolt. No. 1,410,792; Mar. 28.
- Stove, Heating. L. Damaska. No. 1,418,431; June 6.
- Stove, Heating. E. O. Daniels. No. 1,436,980; Nov. 28.
- Stove, Heating. H. W. Siever. No. 1,435,424; Nov. 14.
- Stove, Heating. B. T. Street. No. 1,439,925; Dec. 26.
- Stove, Heating. M. L. Talbert. No. 1,413,141; Apr. 18.
- Stove, Heating. A. P. Thomasson. No. 1,416,140; May 16.
- Stove, Hot-blast. A. N. Diehl. No. 1,434,878; Nov. 7.
- Stove, Hot-blast. F. E. Kling. No. 1,421,256; June 27.
- Stove leg, Adjustable. F. F. Ferch. No. 1,419,835; June 13.
- Stove-lid lifter. T. W. Evans. No. 1,411,240; Mar. 28.
- Stove, Liquid-fuel. L. T. Wilcox. No. 1,409,631; Mar. 14.

Alphabetical list of inventions—Continued.

- Stove, Oil. R. Hoffman. No. 1,430,375; Sept. 26.
 Stove, Oil. H. B. Reppetto. No. 1,402,315; Jan. 3.
 Stove, Oil heating. A. J. Blackford. No. 1,404,006; Jan. 17.
 Stove or furnace, Electric. W. S. Hadaway, Jr. No. 1,406,851; Feb. 14.
 Stove or furnace pipe. W. Gray. No. 1,437,937; Dec. 5.
 Stove or heater, Electric. W. S. Hadaway, Jr. No. 1,406,850; Feb. 14.
 Stove, Ornamental combination wood, coal, oil, and kerosene. P. Ballaz. No. 1,411,251; Apr. 4.
 Stove oven. E. L. Baker. No. 1,426,032; Aug. 15.
 Stove oven, Oil. C. A. Wyatt. No. 1,410,982; Mar. 28.
 Stovepipe. W. H. Willett. No. 1,409,324; Mar. 14.
 Stovepipe anchor. C. S. Cook. No. 1,435,516; Nov. 14.
 Stovepipe anchor or lock. J. E. Daman. No. 1,415,806; May 9.
 Stovepipe construction. E. C. Carman. No. 1,440,275; Dec. 26.
 Stovepipe damper. W. A. Hance. No. 1,439,813; Dec. 20.
 Stovepipe holder. E. E. Reynolds. No. 1,435,554; Nov. 14.
 Stovepipe thimble. J. M. Meade. No. 1,428,294; Sept. 5.
 Stovepipes, Automatic damper for. T. H. Ruddy. No. 1,405,871; Feb. 7.
 Stove, Portable. H. B. Goldstein. No. 1,432,996; Oct. 24.
 Stove, Portable oil. A. Miclaush. No. 1,440,309; Dec. 26.
 Stove scraper. M. L. Stout. No. 1,402,975; Jan. 10.
 Stove with kitchen cabinet, Safety gas. H. Chillingrian. No. 1,426,547; Aug. 22.
 Stoves, Air feed for. A. E. Whitney. No. 1,430,609; Oct. 3.
 Stoves, Air-feeding device for coal. J. Y. King. No. 1,431,585; Oct. 10.
 Stoves and furnaces, Air-preheating device for. H. R. Brunner. No. 1,433,601; Oct. 31.
 Stoves and heaters, Drum for. J. M. Anderson. No. 1,436,849; Nov. 28.
 Stoves and ranges, Hinge for. S. W. Palmer. No. 1,423,012; July 18.
 Stoves, Attaching device for. S. W. Palmer. No. 1,413,992; Apr. 25.
 Stoves, Burner for gas. J. G. Scott. No. 1,416,887; May 23.
 Stoves, Burner for oil. H. B. Reppetto. No. 1,402,316; Jan. 3.
 Stoves, Burner for petroleum. S. G. Brogren and K. Karlsson. No. 1,406,338; Feb. 14.
 Stoves, Burner-supporting bracket for oil. W. W. Hallaway and H. Kielberg. No. 1,403,551; Jan. 17.
 Stoves, Cooking attachment for gas and oil. E. and W. A. Graham. No. 1,403,157; Jan. 10.
 Stoves, Grate for gas and oil. L. T. Wilcox. No. 1,408,235; Feb. 28.
 Stoves, Hot-blast. L. M. Hartwick and P. J. Brown. No. 1,416,198; May 16.
 Stoves, Radiant element for gas. J. M. Tobias. No. 1,404,912; Jan. 31.
 Stoves, Reservoir for oil. W. C. Lindemann. No. 1,417,672; May 30.
 Stoves, Shield for. H. G. Buffington. No. 1,440,336; Dec. 26.
 Stoves, Water heater for gas. C. E. Cole. No. 1,415,527; May 9.
 Straight edge, Shingler's. C. J. Dresen. No. 1,414,556; May 2.
 Strain reverter. D. C. Klausmeyer. No. 1,412,806; Apr. 11.
 Strainer. A. W. Morse. No. 1,406,272; Feb. 14.
 Strainer. D. D. Walker. No. 1,427,565; Aug. 29.
 Strainer, Air-trap gasoline. R. M. Mueller. No. 1,427,619; Aug. 29.
 Strainer and filter alarm. C. D. Mosher. No. 1,411,802; Apr. 4.
 Strainer, Combination. W. J. Campbell, Jr. No. 1,412,674; Apr. 11.
 Strainer, Culinary. H. Pick. No. 1,406,581; Feb. 14.
 Strainer for milk cans, pails, and the like. N. J. Van Ness. No. 1,421,622; July 4.
 Strainer for sugar juices. M. E. Carter. No. 1,422,737; July 11.
 Strainer, Gasoline. A. E. L. Scott. No. 1,436,294; Nov. 21.
 Strainer, Milk. W. J. Wilcox. No. 1,413,442; Apr. 18.
 Strainer, Sanitary. A. F. Bergholz and C. O. Johnson. No. 1,413,892; Apr. 25.
 Strainer, Self-adjustable. H. W. Manery. No. 1,402,170; Jan. 3.
 Strainer, Sink. H. Dalitz. No. 1,438,364; Dec. 12.
 Strainer, Sink. P. Lacoste. No. 1,424,022; July 25.
 Strainer, Twin. C. F. Braun. No. 1,428,270; Sept. 5.
 Straining or filtering apparatus. F. C. Fulcher. No. 1,414,120; Apr. 25.
 Strains, Mechanism for releasing excessive. A. Pestel. No. 1,410,717; Mar. 28.
 Strand-twisting mechanism. H. H. C. Grondahl. No. 1,436,312; Nov. 21.
 Stranding machine. M. Morrison. No. 1,423,776; July 25.
 Strands, Winding mechanism for. C. J. De Coster. No. 1,429,493; Sept. 19.
 Strap: See—
 Binding strap. Milking strap.
 Jock strap. Wrist strap.
 Strap and fastener. G. L. Rock. No. 1,420,148; June 20.
 Strap connector. E. C. Fitch. No. 1,417,507; May 30.
 Strap-end-attaching device. Z. T. Miller. No. 1,407,291; Feb. 21.
 Strap fastener. W. D. Kimball and C. G. Mortimer. No. 1,436,448; Nov. 21.
 Strap fastener. C. S. Nonnemacher. Nos. 1,421,813-14; July 4.
 Strap fastening. J. M. Failey. No. 1,408,281; Feb. 28.
 Strap holder. C. A. Ritter. No. 1,412,967; Apr. 18.
 Strap tightener. G. L. Rock. No. 1,413,616; Apr. 25.
 Strap tightener and fastener. S. J. Turner. No. 1,408,846; Mar. 7.
 Straw, Apparatus for fiberizing and felting. J. K. Toles. No. 1,420,162; June 20.
 Straw conveyer, Adjustable. C. R. Raney and R. B. Hitchcock. No. 1,426,908; Aug. 22.
 Straw holder. J. G. Thompson. No. 1,420,297; June 20.
 Straw-stack-forming apparatus. D. M. Graham. No. 1,411,490; Apr. 4.
 Strawberry huller. N. C. Hall. No. 1,416,818; May 23.
 Stream-line shield. J. H. Dunlap and K. B. Kilborn. No. 1,406,945; Feb. 14.
 Stream linings, Joint for. R. Kemp. No. 1,433,729; Oct. 31.
 Street and station indicator, Automatic. J. A. Everell, E. Plamondon, and U. Plourde. No. 1,438,990; Dec. 19.
 Street-cleaning apparatus. H. A. Boldt. No. 1,427,188; Aug. 29.
 Street-cleaning equipment. H. Pezzetti. No. 1,426,408; Aug. 22.
 Street-cleaning machines, Gutter-cleaning attachment for. D. M. Todd. No. 1,407,180; Feb. 21.
 Street indicator. J. A. Everell, E. Plamondon, and U. Plourde. No. 1,407,848; Feb. 28.
 Street indicator. J. R. Hume. No. 1,415,933; May 16.
 Street marker. A. Lipse and J. Mangiaracina. No. 1,424,416; Aug. 1.
 Street register or indicator. E. T. McCabe. No. 1,409,874; Mar. 14.
 Streets and highways, Constructing. E. H. Cary. No. 1,410,733; Mar. 28.
 Stretcher. T. Robson. No. 1,420,945; June 27.
 Stretcher, Hoop-iron. R. J. Gilmore. No. 1,438,955; Dec. 19.
 Stretcher with compressible grips for rationally developing the human physical strength, Spring. M. C. Fidora. No. 1,421,198; Jun. 27.
 Striker-plate tip, Replaceable. A. T. Earl and W. B. Hunkins. No. 1,434,330; Oct. 31.
 String-instrument key. A. Anagnost. No. 1,429,391; Sept. 19.
 Stringed instrument. E. E. Frozeth. No. 1,426,852; Aug. 22.
 Stringed-instrument mute. C. B. Bergen. No. 1,416,780; May 23.
 Stringed instruments. J. Richter. No. 1,409,064; Mar. 7.
 Stringed instruments, Attachment for. G. Malvica. No. 1,404,131; Jan. 17.
 Stringed instruments, Ribbon attachment for. J. Richter. No. 1,422,784; July 11.
 Stringed instruments, Tensioning peg for. K. Caspari. No. 1,422,738; July 11.
 Stringed instruments, Tone amplifier for. G. Virzi. No. 1,412,584; Apr. 11.
 Stringing and making the same, Elastic metal. W. A. Larned. No. 1,422,993; July 18.
 Strip-cutting machine. F. R. Evans. No. 1,406,947; Feb. 14.
 Strip-folding mechanism. F. M. Joslin. No. 1,421,489; July 4.
 Strip, Handling a flexible. J. A. De Vilbiss. No. 1,433,191; Oct. 24.
 Strip material, Machine for breaking. D. O. Sewall, G. P. Milliken, and S. B. Hannaford. No. 1,434,917; Nov. 7.
 Strip or filamentary material and forming the same, Package for. W. H. Balke. No. 1,437,954; Dec. 5.
 Strip or sheet metal structure. A. P. Thurston. No. 1,421,618; July 4.
 Strip serving and cutting machine. W. D. Kimball and A. E. Rideout. No. 1,436,105; Nov. 21.
 Strip-uniting machine. F. A. Woehr. No. 1,417,651; May 30.
 Stripper and huller. E. N. Maul. No. 1,405,610; Feb. 7.
 Stripping machine. H. G. Antaramian. No. 1,425,312; Aug. 8.
 Stripping machine. C. M. Moggi. No. 1,433,400; Oct. 24.
 Stripping reel. O. Moynihan. No. 1,415,678; May 9.
 Strips, Gaze for marking and cutting. L. M. Dabney. No. 1,427,266; Aug. 29.
 Strips, Machine for cutting bias. W. Prior and W. Prior, Jr. No. 1,432,207; Oct. 17.
 Stroke-regulating device, Automatic. F. B. Giesler. No. 1,417,986; May 30.
 Stropper: See—
 Safety-razor-blade stropper.
 Stropping apparatus. H. C. Williams. No. 1,439,934; Dec. 26.
 Structural coupling. F. C. Harris. No. 1,404,522; Jan. 24.
 Structural element. R. Kemp. No. 1,435,244; Nov. 14.
 Structural element. R. Kemp and F. H. Johnson. No. 1,414,419; May 2.

Alphabetical list of inventions—Continued.

- Structural work, Service bolt for fastening. T. I. E. Haug. No. 1,404,955; Jan. 31.
- Structure, Disappearing. W. A. Noack. No. 1,412,367; Apr. 11.
- Structures, Manufacture of layer. A. Elmendorf. No. 1,438,429; Dec. 12.
- Strut, Stream-lined. L. T. Frederick. No. 1,403,310; Jan. 10.
- Stubble cutter. E. C. Childress. No. 1,436,792; Nov. 28.
- Stud. J. E. Brady. No. 1,425,507; Aug. 15.
- Stud. M. F. Carr. No. 1,433,783; Oct. 31.
- Stud adapter fixture. E. M. Seaman. No. 1,439,713; Dec. 26.
- Stud and socket fastener. G. A. Holmes. No. 1,421,476; July 4.
- Stud, Automatic cotter. J. Watt. No. 1,410,042; Mar. 21.
- Stud-bolt driver. W. F. Sehrt. No. 1,438,269; Dec. 12.
- Stud driver. C. A. Barry. No. 1,425,359; Aug. 8.
- Stud, Expansion. W. B. Templeton. No. 1,413,998; Apr. 25.
- Stud for snap fasteners. E. D. Simons. No. 1,404,552; Jan. 24.
- Stud, Press. F. Goubert. No. 1,407,854; Feb. 28.
- Stuffing box. R. F. Massa. No. 1,425,268; Aug. 8.
- Stuffing box. M. M. Roberts. No. 1,410,600; Mar. 28.
- Stuffing container. L. E. McHugh. No. 1,403,045; Jan. 10.
- Stuffing machine, Automatic. P. Rissmann. No. 1,431,257; Oct. 10.
- Stump burner. J. T. Gartrell. No. 1,413,112; Apr. 18.
- Stump-burning apparatus. G. F. Kentch. No. 1,409,051; Mar. 7.
- Stump destroying. E. S. Phillips. No. 1,436,053; Nov. 21.
- Stump extractor, Self-anchoring. J. C. Williamson. No. 1,406,317; Feb. 14.
- Stump puller. C. B. Goldsmith. No. 1,440,008; Dec. 26.
- Stump puller. J. Martinson. No. 1,404,781; Jan. 31.
- Stump puller. J. W. Nissrod. No. 1,420,736; June 27.
- Stump puller. F. Williams. No. 1,404,253; Jan. 24.
- Stump puller. J. C. Williamson. No. 1,433,165; Oct. 24.
- Stump puller. K. C. Wolcott. No. 1,413,119; May 30.
- Stump puller and grubbing apparatus. S. H. Snuffer and J. A. Shanks. No. 1,407,707; Feb. 28.
- Stumps, Harvesting. E. A. McKoy and G. D. Moore. (Reissue.) No. 15,394; June 27.
- Stylus-bar mounting. H. E. Davis. No. 1,413,461; Apr. 18.
- Stylus mounting. T. A. Edison. No. 1,425,458; Aug. 8.
- Stylus, Recording. C. I. Hall. No. 1,405,409; Feb. 7.
- Subframe construction. W. C. Anthony and M. Heine-mann. No. 1,436,075; Nov. 21.
- Subgrading machine. C. J. Hug. No. 1,421,237; June 27.
- Submarine-mine laying, System of. J. H. Hammond, Jr. No. 1,418,797; June 6.
- Submarine signaling. F. L. Hopwood. No. 1,440,360; Dec. 26.
- Submarine signaling apparatus. F. L. Hopwood. No. 1,440,361; Dec. 26.
- Submarine signaling, Method and apparatus for. R. A. Fessenden. No. 1,415,539; May 9.
- Submarine sound receiver. M. Mason. No. 1,414,295; Apr. 25.
- Submarine-vessel attachment. A. Hozlak. No. 1,411,102; Mar. 28.
- Submarine work, Apparatus for. A. B. Hansen. No. 1,425,471; Aug. 8.
- Submarines, Apparatus for maintaining pressure in fuel-oil tanks of. F. Kramer. No. 1,412,357; Apr. 11.
- Submarines, mobile torpedoes, or explosive carriers, Shape and structure of. R. N. Perley. No. 1,436,902; Nov. 28.
- Submarines, Signaling apparatus for detecting. A. E. Sperry. No. 1,426,337; Aug. 15.
- Submarines, Valve mechanism for. H. E. Grieshaber. No. 1,417,165; May 23.
- Submergible heater. A. W. Fletcher. No. 1,413,268; Apr. 18.
- Subsoiler. J. F. Belknap. No. 1,403,937; Jan. 17.
- Substances by distillation with a solvent, Purification of. G. C. Bailey, C. W. Fischer, and J. F. W. Schulze. No. 1,424,138; July 25.
- Substances in a finely-divided condition, Apparatus for treating. P. Poore. No. 1,420,944; June 27.
- Sucker rod. R. E. L. and C. W. Holmes. No. 1,406,017; Feb. 7.
- Sucker-rod elevator. C. M. Marshall. No. 1,414,519; May 2.
- Sucker-rod elevator, Automatic. W. W. H. Burnette. No. 1,427,675; Aug. 29.
- Sucker-rod hanger. S. E. Arey, J. J. Hern, and M. S. McFadden. No. 1,414,541; May 2.
- Sucker-rod socket. H. P. Rheas, G. Farbro, and E. Stevens. No. 1,434,632; Nov. 7.
- Sucker-rod trap. R. H. Stegeman. No. 1,409,424; Mar. 14.
- Sucrose from solutions, Recovering. A. S. Ramage. Nos. 1,433,654-5; Oct. 31.
- Suction cleaner. A. E. Bobst. No. 1,438,890; Dec. 12.
- Suction cleaner. J. B. Kirby. No. 1,422,105; July 11.
- Suction cleaner. W. V. Orr. (Reissue.) No. 15,423; July 25.
- Suction cleaner. I. J. Owen. No. 1,404,889; Jan. 31.
- Suction cleaner apparatus, Mobile support for. C. D. Lanning. No. 1,405,924; Feb. 7.
- Suction cleaning apparatus. F. E. Robertson. No. 1,415,053; May 9.
- Suction-creating apparatus. B. Skidmore, Jr. No. 1,409,315; Mar. 14.
- Suction duster. E. D. Buitrago. No. 1,423,993; July 25.
- Suction sweeper. F. M. Case. No. 1,408,074; Feb. 28.
- Sugar from molasses obtained in the manufacture of sugar from sugar beets, Recovering. P. M. McHugh. No. 1,402,079; Jan. 3.
- Sugar juices by filtration and decantation, Purifying. F. Tiemann. No. 1,430,200; Sept. 26.
- Sugar, Manufacture of grape. P. W. Allen. No. 1,422,328; July 11.
- Sugar, Packaging cube. W. C. Smend and W. P. Spreckels. No. 1,431,702; Oct. 10.
- Sugar product, Preparing improved. H. A. Hughes and H. A. Hughes, jr. No. 1,402,615; Jan. 3.
- Sugar servers, Sanitary. A. Apfel. No. 1,430,876; Oct. 3.
- Sugar-washing apparatus, Regulatable. W. W. Hartman. No. 1,439,676; Dec. 19.
- Sugars from substances containing cellulose, Obtaining. A. Classen. No. 1,428,217; Sept. 5.
- Suitcase lock construction. E. H. Shaff. No. 1,408,909; Mar. 7.
- Suitcase, Wardrobe. D. Witbeck. No. 1,438,737; Dec. 12.
- Suitcases, Handle for. A. Kahlow. No. 1,403,167; Jan. 10.
- Suit hanger. W. F. Wagner. No. 1,416,143; May 16.
- Suit, Play. E. L. Bornstein. No. 1,418,281; June 6.
- Suit, Union. F. H. Miller. No. 1,404,629; Jan. 24.
- Suits, Union. T. H. Smith. No. 1,428,504; Sept. 5.
- Sulphate of lead water paste into oil paste, Conversion of. D. Wythe. No. 1,419,655; June 13.
- Sulphate, Oxidizing ferrous. C. J. Herrly. No. 1,430,551; Oct. 3.
- Sulphite digestion liquor, Process and apparatus for preparing. D. B. Davies and E. P. Strong. No. 1,424,883; Aug. 8.
- Sulphite liquor, Continuous process of decomposing waste. K. Mörch. No. 1,415,543; May 9.
- Sulpho-aromatic substances for use in the decomposition of fats, Producing. A. Godal. No. 1,416,284; May 16.
- Sulphonating carbon compounds. A. R. Grob and C. C. Adams. No. 1,422,564; July 11.
- Sulphur burner. A. G. Hinzke. No. 1,421,232; June 27.
- Sulphur burners, Oxidizing device for. A. G. Hinzke. No. 1,410,061; Mar. 21.
- Sulphur-burning apparatus. H. D. Wells. No. 1,422,801; July 11.
- Sulphur-combustion furnace. A. Hansen. No. 1,436,762; Nov. 28.
- Sulphur composition, Soluble lime. E. H. French, J. R. Withrow, and A. O. Allen. No. 1,437,838; Dec. 5.
- Sulphur compounds from mineral oils and the like, Obtaining. J. C. Clancy. No. 1,423,711; July 25.
- Sulphur dioxide from waste metallurgical gases, Recovering. G. C. Howard. No. 1,417,067; May 23.
- Sulphur dioxide, Manufacture of. J. Grayson. No. 1,402,062; Jan. 3.
- Sulphur dioxide, Purification of. C. M. Bullard. No. 1,410,535; Mar. 21.
- Sulphur, Extracting. A. K. Sedgwick. No. 1,406,905; Feb. 14.
- Sulphur extraction. J. T. Fenton. No. 1,409,338; Mar. 14.
- Sulphur from spent oxide from gas works, Process and apparatus for extracting. A. Given. No. 1,404,199; Jan. 24.
- Sulphur from sulphur dioxide, Making. G. C. Howard. No. 1,417,068; May 23.
- Sulphur, Manufacture of finely-divided. A. Mittasch and F. Winkler. No. 1,429,522; Sept. 19.
- Sulphur, Obtaining. R. S. Perry, P. W. Webster, and V. K. Boynton. No. 1,408,467; Mar. 7.
- Sulphur, Process and apparatus for melting. H. S. Davis and R. F. Bacon. No. 1,421,416; July 4.
- Sulphur, Solidifying. R. F. Bacon and H. S. Davis. No. 1,419,911; June 20.
- Sulphurs and vermilions of antimony, Manufacture of gold colored. P. Chailaux. No. 1,417,033; May 23.
- Sulphuric acid chambers, Construction of. R. E. Dior. No. 1,426,261; Aug. 15.
- Sulphuric anhydride and sulphuric acid, Manufacture of. M. F. Chase and F. E. Pierce. No. 1,405,669; Feb. 7.
- Sun and light diffuser, Adjustable. T. J. Treichel. No. 1,417,218; May 23.
- Sundae-cup holder and dispenser, Sanitary. P. T. Potts. No. 1,424,517; Aug. 1.
- Sunshade frame, Foldable. B. B. Myers. No. 1,407,040; Feb. 21.
- Supercalender, Multiple-roll. C. Schürmann. No. 1,423,969; July 25.
- Superheat regulator. B. Broido. No. 1,433,981; Oct. 31.
- Superheater. J. P. Badenhausen. No. 1,404,565; Jan. 24.
- Superheater. J. E. Bell. No. 1,409,651; Mar. 14.
- Superheater. B. Broido. No. 1,411,680; Apr. 4.
- Superheater. B. Broido. No. 1,439,862; Dec. 26.
- Superheater. C. E. Chapman. No. 1,436,379; Nov. 21.
- Superheater boiler. A. Cotton. No. 1,429,717; Sept. 19.
- Superheater. E. H. Foster. No. 1,416,809; May 23.
- Superheater. E. H. Foster. No. 1,422,847; July 18.
- Superheater, Steam. C. A. Parsons and S. S. Cook. No. 1,438,397; Dec. 12.

- Superheater, Steam. C. A. Parsons and S. S. Cook. No. 1,421,712; July 4.
- Superheater support. W. F. Keenan, Jr. No. 1,416,835; May 23.
- Superphosphate massess, Process of and apparatus for ageing and disintegrating. G. A. Bruhn. No. 1,430,621; Oct. 3.
- Superphosphates, Utilization of alunite ore in making. A. Matheson. No. 1,413,048; Apr. 18.
- Supervisory mechanism. E. C. Healey. No. 1,407,809; Feb. 28.
- Supervisory mechanism. E. C. Healy. No. 1,407,811; Feb. 28.
- Supervisory mechanism. E. C. Healy. Nos. 1,407,815-16; Feb. 28.
- Supervisory mechanism. E. C. Healy and G. P. Schmidt. No. 1,407,814; Feb. 28.
- Supervisory mechanism. C. E. Renshaw. No. 1,407,810; Feb. 28.
- Supervisory mechanism. C. E. Renshaw. No. 1,407,819; Feb. 28.
- Supervisory mechanism. C. E. Renshaw and E. C. Healy. Nos. 1,407,807-8; Feb. 28.
- Supervisory mechanism. C. E. Renshaw and E. C. Healy. Nos. 1,407,812-13; Feb. 28.
- Supervisory mechanism. C. E. Renshaw and H. C. Davis. No. 1,407,818; Feb. 28.
- Support. E. D. Angell. No. 1,420,676; June 27.
- Support. W. M. Neyland. No. 1,409,566; Mar. 14.
- Support. O. A. Savage. No. 1,429,778; Sept. 19.
- Support, Adjustable. C. A. Lindberg. No. 1,430,389; Sept. 26.
- Support and cutter. H. M. Thomas and M. Fogel. No. 1,424,050; July 25.
- Support and guard. Combined. V. C. Kloepper. No. 1,429,039; Sept. 12.
- Support and marking same. W. J. Robinson. No. 1,429,776; Sept. 19.
- Support, Flexible-balanced. A. C. Foulk. No. 1,427,799; Sept. 5.
- Support, Folding. S. J. Suffa and F. Ruzicka. No. 1,412,377; Apr. 11.
- Supporting and driving apparatus. H. G. Seaber. No. 1,411,305; Apr. 4.
- Supporting device for various articles. E. S. Gardiner. No. 1,418,435; June 6.
- Supporting hook. T. H. Ryan. No. 1,406,087; Feb. 7.
- Supporting rack. J. W. Hobbs. No. 1,404,958; Jan. 31.
- Supporting spring. W. Kyle. No. 1,439,005; Dec. 19.
- Supply tank, Reserve-. H. H. Kleinberg. No. 1,419,145; June 13.
- Surcingle. L. C. Ridenour. No. 1,436,777; Nov. 28.
- Surf board. H. H. Newby. No. 1,404,790; Jan. 31.
- Surf-breaking apparatus, Automatic. H. O. Barlow. No. 1,423,640; July 25.
- Surface-finishing implement. J. F. Krall. No. 1,430,387; Sept. 26.
- Surface gauge. M. Bartholdy. No. 1,404,425; Jan. 24.
- Surface gauge, Indicating. W. H. Reinsner. No. 1,419,306; June 13.
- Surface grinders, Water-control system for. C. Knowles. No. 1,416,475; May 16.
- Surface-heating machine. A. A. Clarke. No. 1,404,342; Jan. 24.
- Surface, Means for preventing unauthorized viewing of a. W. C. and E. E. Strauss. No. 1,435,992; Nov. 21.
- Surface-spotting tool. S. F. Anderson. No. 1,437,035; Nov. 28.
- Surface-test indicator. J. Reich. No. 1,436,111; Nov. 21.
- Surface-treating tool. A. A. Clarke. No. 1,407,381; Feb. 21.
- Surfing device. J. P. Wagner. No. 1,437,925; Dec. 5.
- Surfacing machine. J. P. Anderson. No. 1,409,512; Mar. 14.
- Surgical and dental instrument. G. F. Richter. No. 1,437,995; Dec. 5.
- Surgical appliance. L. T. Cassidy. No. 1,438,899; Dec. 12.
- Surgical appliance. G. O. Hulick. No. 1,426,740; Aug. 22.
- Surgical appliance for men. J. J. Martinka. No. 1,410,339; Mar. 21.
- Surgical baker. L. Perlman. No. 1,427,908; Sept. 5.
- Surgical bust substitute. L. E. Mailleue. No. 1,417,930; May 30.
- Surgical-cotton points and the like, Machine for making. G. T. Trundle, Jr. No. 1,438,623; Dec. 12.
- Surgical dilator. H. Pegaitaz. No. 1,433,031; Oct. 24.
- Surgical instrument. G. Accocella. No. 1,438,080; Dec. 5.
- Surgical instrument. B. B. Couch. No. 1,417,142; May 23.
- Surgical instrument. A. Saperstein. No. 1,416,514; May 16.
- Surgical patch. A. F. Henderson. No. 1,434,779; Nov. 7.
- Surplus material, Machine for removing. B. Jorgensen. No. 1,421,488; July 4.
- Surveying instrument. A. D. Hadsel. No. 1,428,028; Sept. 5.
- Surveying instrument. P. O. Harding. No. 1,425,589; Aug. 15.
- Surveying instrument. J. P. Shaw. No. 1,405,017; Jan. 31.
- Surveying, Spot board for railway. C. Schweikert and T. W. O'Rourke. No. 1,438,404; Dec. 12.
- Surveyor's instrument and range finder. J. Ceserani. No. 1,406,150; Feb. 7.
- Suspender clip. P. Pughiet. No. 1,420,746; June 27.
- Suspender supporter. J. F. Bear. No. 1,419,802; June 13.
- Suspenders. O. Crossdale. No. 1,416,335; May 16.
- Suspenders. A. Monaco. No. 1,411,199; Apr. 25.
- Suspenders, Pair of. J. T. Watts. No. 1,430,422; Sept. 26.
- Suspension and emulsion and making same. J. C. Morrell. Nos. 1,440,355-6; Dec. 26.
- Suspension device. W. C. Starkey. No. 1,402,023; Jan. 3.
- Suspension transporter arrangement. A. G. M. Jack. No. 1,417,070; May 23.
- Swab. O. Mowers. No. 1,412,213; Apr. 11.
- Swab and valve for wells, Combined. B. F. Kelley. No. 1,421,248; June 27.
- Swage, Casing. F. H. Hatfield. No. 1,422,762; July 11.
- Swaging machine. W. Frick. No. 1,430,974; Oct. 3.
- Swaging press. K. Böhle. No. 1,429,838; Sept. 19.
- Sweatband. W. T. Stall. No. 1,434,854; Nov. 7.
- Sweatband for straw and other hats. J. T. Dowdall. No. 1,420,690; June 27.
- Sweatband, Hat. J. T. Dowdall. No. 1,420,689; June 27.
- Sweeper, Crumb. H. Doland. No. 1,402,343; Jan. 3.
- Sweeper, Motor-driven pick-up. M. V. Liddell. No. 1,416,041; May 16.
- Sweeper, Street. A. C. Deweese. No. 1,417,231; May 23.
- Sweeper, Street. E. K. and P. C. Ward. No. 1,422,501; July 11.
- Sweeper, Suction. F. H. Burgher. No. 1,404,699; Jan. 24.
- Sweeper, Suction. J. B. Kirby. Nos. 1,421,957-8; July 4.
- Sweeper, Suction. R. W. Weir and W. Lowery. No. 1,437,577; Dec. 5.
- Sweeping machines, Front truck for street. C. W. Lund. No. 1,418,154; May 30.
- Sweepers, Broom for. M. V. Liddell. No. 1,418,088; May 30.
- Swift. W. C. Keyworth. No. 1,408,745; Mar. 7.
- Swimmer's motor. L. P. Osterhout. No. 1,433,563; Oct. 31.
- Swimming and exercising, Device for. L. A. Maurer. No. 1,433,142; Oct. 24.
- Swimming board. R. B. Nichols. No. 1,402,529; Jan. 3.
- Swimming appliance. L. F. Snapp. No. 1,430,600; Oct. 3.
- Swimming device. G. G. Allenbaugh. No. 1,422,071; July 11.
- Swimming device. T. J. Condon. No. 1,411,909; Apr. 4.
- Swimming device. F. J. Cullomer. No. 1,435,588; Nov. 14.
- Swimming device. C. E. Darrow. No. 1,406,940; Feb. 14.
- Swimming device. M. Szafka. No. 1,411,540; Apr. 4.
- Swimming harness. H. L. Smith. No. 1,423,633; July 25.
- Swimming paddle. G. L. Parker. No. 1,409,761; Mar. 14.
- Swimming race. R. Sato and C. Matsui. No. 1,424,038; July 25.
- Swimming tube and valve cap therefor. G. D. Kratz. No. 1,431,011; Oct. 3.
- Swing. W. E. Braymer. No. 1,406,529; Feb. 14.
- Swing. C. J. Clouser. No. 1,419,660; June 13.
- Swing. G. W. Cook. No. 1,436,481; Nov. 21.
- Swing. A. F. Eycleshymer. No. 1,434,434; Nov. 7.
- Swing. O. H. Fishburne. No. 1,438,817; Dec. 12.
- Swing. B. F. Malott. No. 1,418,192; May 30.
- Swing. W. M. Thomas. No. 1,420,787; June 27.
- Swing and couch, Convertible porch. C. A. Neiswender. No. 1,426,405; Aug. 22.
- Swing, Baby. M. E. Merifield. No. 1,418,318; June 6.
- Swing, Baby. J. A. Wyrce. No. 1,414,318; Apr. 25.
- Swing chair, Folding. J. Baugher and W. F. Kline. No. 1,417,443; May 23.
- Swing, Child's. J. A. Eberle. No. 1,403,675; Jan. 17.
- Swing, Folding. C. B. Helms. No. 1,424,302; Aug. 1.
- Swing hanger. C. W. Birch. No. 1,419,806; June 13.
- Swing, Lawn. L. R. Houchens. No. 1,416,560; May 16.
- Swing or cradle. P. Van Athl. No. 1,436,834; Nov. 28.
- Swing, Revolving. C. A. Snider. No. 1,403,205; Jan. 10.
- Swing, Rotary. H. T. Kaho. No. 1,433,285; Oct. 24.
- Swinging gate. M. C. Porter. No. 1,435,079; Nov. 7.
- Swings and other articles, Hanger for. E. Q. Stacy. No. 1,408,912; Mar. 7.
- Swings, Hanger for porch. H. W. Beem. No. 1,430,396; Dec. 19.
- Switch: See—
- Airbrake switch.
 - Alarm-clock switch.
 - Automatic switch.
 - Automatic point blade switch.
 - Automatic track switch.
 - Break switch.
 - Centrifugal switch.
 - Change-over switch.
 - Circuit-changing switch.
 - Connector switch.
 - Door-operated switch.
 - Double-throw safety-switch.
 - Double-throw switch.
 - Drum switch.
 - Electric switch.
 - Electric-flation switch.
 - Electric motor switch.
 - Electric service switch.
 - Electric snap switch.
 - Electric time switch.
 - Electrical switch.
 - Electromagnetic switch.
 - Elevator floor safety switch.
 - Float switch.
 - Flush switch.
 - Flying switch.
 - Frog switch.
 - Progless switch.
 - Handlamp switch.
 - High-potential switch.
 - Light-control switch.
 - Ignition and lighting switch.
 - Ignition switch.
 - Insulator and switch.
 - Knife-blade switch.
 - Lamp switch.

Alphabetical list of inventions—Continued.

- Switch: See—
 Lock railway switch.
 Lock switch.
 Motor switch.
 Motor-starting switch.
 Multiple-contact electric switch.
 Multiple switch.
 Multipolar switch.
 Oil switch.
 Pendant switch.
 Polarity-reversing switch.
 Pressure-operated switch.
 Pull-socket switch.
 Push-button switch.
 Railway safety switch.
 Railway switch.
 Reciprocating rotary switch.
 Removable switch.
 Reversing switch.
 Switch. H. G. Ainsworth. No. 1,431,082; Oct. 3.
 Switch. C. F. Cuno. No. 1,429,826; Sept. 19.
 Switch. E. C. Findley. No. 1,420,984; June 27.
 Switch. A. A. Gazda. No. 1,425,003; Aug. 8.
 Switch. J. A. Hirst and P. S. Brook. No. 1,425,769; Aug. 15.
 Switch. E. N. Jacobi. No. 1,418,376; June 6.
 Switch. J. S. Jones. No. 1,409,008; Mar. 7.
 Switch. J. C. Lewis. No. 1,402,518; Jan. 3.
 Switch. P. F. Meenan. No. 1,409,882; Mar. 14.
 Switch. R. R. Risk. No. 1,418,674; June 6.
 Switch. C. C. Strayer. No. 1,408,484; Mar. 7.
 Switch-actuating mechanism. J. A. Beaudoin. No. 1,405,179; Jan. 31.
 Switch and alarm, Combination. T. W. McKenzie. No. 1,408,619; Mar. 7.
 Switch and fuse box. H. F. Hitner. No. 1,438,646; Dec. 12.
 Switch and fuse box. W. B. La Pointe. No. 1,433,510; Oct. 24.
 Switch and fuse box, Safety. C. L. Eldlitz. No. 1,417,723; May 30.
 Switch and train stop, Magnetically-controlled. W. H. Sutherland. No. 1,403,654; Jan. 17.
 Switch, Automatic. L. Schön. No. 1,405,338; Jan. 31.
 Switchboard call-signal apparatus and circuits. L. W. Cooper. No. 1,427,725; Aug. 29.
 Switchboard call-signal apparatus and circuits. R. W. Morris. No. 1,427,695; Aug. 29.
 Switchboard frame, Sectional. H. Koch. No. 1,432,868; Oct. 24.
 Switchboard mechanism. H. F. Krantz. No. 1,432,871; Oct. 24.
 Switchboard signal. G. Carlson. No. 1,421,403; July 4.
 Switch box. W. M. Gore. No. 1,420,694; June 27.
 Switch box. A. L. Harvey. No. 1,404,852; Jan. 31.
 Switch box. T. Helse. No. 1,424,407; Aug. 1.
 Switch box. E. H. Kruse. No. 1,435,711; Nov. 14.
 Switch casing and cover lock. R. K. Mason. No. 1,424,579; Aug. 1.
 Switch construction. E. N. Jacobi. No. 1,437,659; Dec. 5.
 Switch construction. S. Wallwork. No. 1,423,703; July 25.
 Switch construction, Inclosed. C. D. Platt. No. 1,430,119; Dec. 19.
 Switch-controlling machine, Automatic multiple. E. A. Margeson and C. D. Herrold. No. 1,409,561; Mar. 14.
 Switch-controlling mechanism. R. Zaugg. No. 1,413,559; Apr. 18.
 Switch-controlling system. F. A. Stearn. No. 1,413,501; Apr. 18.
 Switch frog. B. P. Gilmour. No. 1,416,458; May 16.
 Switch gear, Electrical. W. A. Coates, G. E. Gittins, and D. R. Davies. No. 1,402,570; Jan. 3.
 Switch, Handlamp. G. D. Gallagher. Nos. 1,419,728-9; June 13.
 Switch handle. R. A. Norling. No. 1,434,560; Nov. 7.
 Switch latch. H. K. Ansingh. No. 1,433,692; Oct. 31.
 Switch lock. M. E. Keeney. No. 1,410,257; Mar. 21.
 Switch lock. S. Luchkanich. No. 1,436,767; Nov. 28.
 Switch lock. S. G. Wells. No. 1,406,790; Feb. 14.
 Switch lock, Permutation. B. Krusberger. No. 1,414,192; Apr. 25.
 Switch mechanism. A. B. Hendricks, Jr. No. 1,412,002; Apr. 4.
 Switch mechanism. C. A. Psilander. No. 1,411,869; Apr. 4.
 Switch mechanism. H. M. Stevens. No. 1,421,740; July 4.
 Switch mechanism, Quick-break. B. E. Getchell. No. 1,418,558; June 6.
 Switch mechanism, Safety. L. Siebert. No. 1,435,748; Nov. 14.
 Switch mechanism, Snap. A. L. Freret. No. 1,428,542; Sept. 12.
 Switch plate. A. Frinzi. No. 1,421,447; July 4.
 Switch point. F. M. Crossley. No. 1,430,952; Oct. 3.
 Rotary snap switch.
 Safety electric switch.
 Safety switch.
 Section switch.
 Selector switch.
 Self-locking switch.
 Service switch.
 Snap switch.
 Telephone switch.
 Thermostatic switch.
 Thermostatic electric switch.
 Time-controlled switch.
 Time switch.
 Track switch.
 Transmission switch.
 Trolley switch.
 Tumbler switch.
 Thermostat switch.
- Switch-point connector. G. Goodart. No. 1,415,336; May 9.
 Switch, Polarity-reversing. S. F. Briggs and E. N. Jacobi. No. 1,408,687; Mar. 7.
 Switch, Safety. R. K. Mason. No. 1,424,578; Aug. 1.
 Switch stand. F. C. Anderson. No. 1,407,454; Feb. 21.
 Switch stand. F. C. Anderson. No. 1,413,152; Apr. 18.
 Switch stand. F. C. Anderson. No. 1,427,082; Aug. 29.
 Switch stand. W. M. Brown. No. 1,416,397; May 16.
 Switch stand. W. M. Brown, C. Burton, and S. C. Weeks. No. 1,431,365; Oct. 10.
 Switch stand. B. Chini. No. 1,437,226; Nov. 28.
 Switch stand. I. K. Dixon. No. 1,416,399; May 16.
 Switch stand. J. B. Haskell. No. 1,434,658; Nov. 7.
 Switch stand. J. S. Reid. No. 1,409,780; Mar. 14.
 Switch stand. J. V. Stewart and F. G. Wertz. No. 1,404,491; Jan. 24.
 Switch stand, Manually-operated. O. H. Bardon. No. 1,428,874; Sept. 12.
 Switch stands, Lock for. W. H. Franklin. No. 1,406,363; Feb. 14.
 Switch-throwing mechanism, Foot-operated. J. W. Bliznik. No. 1,426,542; Aug. 22.
 Switching and braking device. H. Von Scoy. No. 1,405,562; Feb. 7.
 Switching apparatus. W. M. Scott. No. 1,407,953; Feb. 28.
 Switching apparatus, Electric. H. J. H. Huber. No. 1,434,700; Nov. 7.
 Switching device. H. P. Lewis. No. 1,408,613; Mar. 7.
 Switching device. L. R. Waller. No. 1,413,639; Apr. 25.
 Switching device, Machine. C. L. Goodrum. No. 1,438,758; Dec. 12.
 Switching key. L. W. Kelsay. No. 1,422,447; July 11.
 Switching machine. T. Fitzgibbon. No. 1,412,394; Apr. 11.
 Switching mechanism. F. Conrad. No. 1,430,536; Oct. 3.
 Switching mechanism. W. P. Loudon. No. 1,437,062; Nov. 28.
 Switching system. J. B. Harlow. No. 1,419,561; June 13.
 Switches, Front and lock rod for. E. K. Post. No. 1,426,097; Aug. 15.
 Switches, Handle device for. N. J. A. Wahlberg. No. 1,406,309; Feb. 14.
 Switches, Releasing device for overload. L. Schön. No. 1,438,789; Dec. 12.
 Swivel. W. H. Fullington. No. 1,432,059; Oct. 17.
 Swivel. O. H. Sleeper. No. 1,417,949; May 30.
 Swivel and bull hook, Combination. L. K. Syrstad. No. 1,426,520; Aug. 22.
 Swivel and gearing, Shaft-connecting. F. W. Stewart. No. 1,427,652; Aug. 29.
 Swivel connection. D. L. Sauerhering. No. 1,436,685; Nov. 28.
 Swivel fair lead. C. E. Stahl. No. 1,433,751; Oct. 31.
 Swivel for cables, Safety. J. S. Gendall. No. 1,404,197; Jan. 24.
 Swivel, Hydraulic. L. J. Black. No. 1,408,975; Mar. 7.
 Swivel members, Manufacture of. S. W. Parsons. No. 1,424,029; July 29.
 Swivel or universal hooks, Manufacture of. J. Tait. No. 1,404,807; Jan. 31.
 Swivel plug. R. S. Mueller. No. 1,411,293; Apr. 4.
 Swivel union. A. Ganz. No. 1,436,392; Nov. 21.
 Swivels, Making. J. Isaacson. No. 1,437,144; Nov. 28.
 Sword and revolver, Combined. S. Kurczab. No. 1,404,034; Jan. 17.
 Sword dragon. P. Fasson. No. 1,412,679; Apr. 11.
 Symetroscope. P. N. Williams. No. 1,435,998; Nov. 21.
 Synchronized apparatus. M. J. Johnson. No. 1,431,666; Oct. 10.
 Synchronizing mechanism. T. L. Dennis, jr. No. 1,432,055; Oct. 17.
 Synchronizing system. L. Espenschied. No. 1,412,853; Apr. 18.
 Synchronizing system. K. S. Van Dyke. No. 1,412,908; Apr. 18.
 Synthetic chicle compound and making same. L. W. Buckley. No. 1,438,019; Dec. 5.
 Syringe. C. E. Morris. No. 1,404,789; Jan. 31.
 Syringe. F. W. Stanton. Nos. 1,412,975-6; Apr. 18.
 Syringe filler, Automatic. W. J. Daly. No. 1,408,272; Feb. 28.
 Syringe, Hypodermic. S. J. Everett. No. 1,403,020; Jan. 10.
 Syringe, Hypodermic. S. A. Giedroyc. No. 1,434,381; Nov. 7.
 Syringe, Hypodermic. A. L. Ostrov. No. 1,402,011; Jan. 3.
 Syringe, Vaginal. C. C. Eppeleman and W. E. Callahan. No. 1,439,662; Dec. 19.
 Syringe with progressively-graduated automatic action. J. Courmand. No. 1,416,614; May 16.
 Syringes, Shield for glass. L. Eisele. No. 1,432,238; Oct. 17.
 T-square. W. L. Boon. No. 1,419,354; June 13.
 T-square keeper. L. Barber. No. 1,404,000; Jan. 17.
 Tab holder. E. Seyforth. No. 1,415,488; May 9.

Alphabetical list of inventions—Continued.

Table: See—

- Adjustable and collapsible table.
Automobile table.
Auxiliary table.
Bag-holding table.
Bed table.
Billiard table.
Box table.
Box-making table.
Breakfast table.
Cafeteria table.
Camp table.
Chiropractic table.
Clamp table.
Collapsible table.
Combination table.
Convertible stand and table.
Cooling table.
Dining table.
Extension table.
Folding table.
- Table. O. A. Armstrong. No. 1,420,511; June 20.
Table. A. Hemshewski. No. 1,427,383; Aug. 29.
Table. W. F. Mason. No. 1,407,039; Feb. 21.
Table. E. Niesen. No. 1,419,978; June 20.
Table. S. C. Pandolfo. No. 1,412,314; Apr. 11.
Table. E. H. Sheldon. No. 1,408,226; Feb. 28.
Table. E. G. Wallinder. No. 1,439,986; Dec. 26.
Table and bookcase, Combined. C. H. Gunn. No. 1,428,629; Sept. 12.
Table and case, Collapsible. C. E. Morfoot. No. 1,420,126; June 20.
Table and chair, Combination. T. Doroszuk. No. 1,420,363; June 20.
Table and chair, Combined. J. Zielinski. No. 1,417,655; May 30.
Table and ironing board, Combination. O. J. Tretsven. No. 1,402,689; Jan. 3.
Table and ironing board. Combined kitchen. G. J. Cronenberger. No. 1,415,529; May 9.
Table and ladder, Combination. F. X. Ratkovic. No. 1,408,398; Feb. 28.
Table and scale, Combined animal operating. W. R. Barnard. No. 1,404,173; Jan. 17.
Table boards, Gripping device for use in connection with. S. Geczyński. No. 1,432,597; Oct. 17.
Table clamp. F. La Point. No. 1,425,868; Aug. 15.
Table construction. R. E. Jordan. No. 1,435,965; Nov. 21.
Table extension. G. Froelich. No. 1,435,598; Nov. 14.
Table-extension device. J. E. Lundquist. No. 1,411,114; Mar. 28.
Table, Folding. J. M. Cadwell. No. 1,413,706; Apr. 25.
Table, Folding. H. B. Smith. No. 1,422,313; July 11.
Table-leaf bracket. N. J. Lundeen. No. 1,437,064; Nov. 28.
Table-leg fastener. C. R. Dodsworth. No. 1,426,848; Aug. 22.
Table leg, Pivoted folding. E. C. Palmer. No. 1,429,969; Sept. 26.
Table legs, Support and brace for. W. F. Streich. No. 1,439,453; Dec. 19.
Table leveler. D. L. Sterner. No. 1,417,639; May 30.
Table lock. C. E. Bowers. No. 1,425,833; Aug. 15.
Table pad. M. Campbell. No. 1,429,225; Sept. 19.
Table slide, Extension-. H. N. Smith. No. 1,422,142; July 11.
Table-spread holder. R. A. Blunck. No. 1,403,733; Jan. 17.
Table top. L. C. Zimmerman and C. F. Trick. No. 1,434,420; Nov. 7.
Table top, Extensible. C. J. Fricker. No. 1,413,111; Apr. 18.
Tableware. C. Abrell. No. 1,406,135; Feb. 7.
Tableware, Article of. L. Stollerman. No. 1,419,591; June 13.
Tableware, Display roll for flat metal. J. G. Ludlum. No. 1,423,483; July 18.
Tableware, Inflammable composition for. G. Martin. No. 1,429,360; Sept. 19.
Tables and the like, Ash-receiving attachment for. W. M. Rockwood. No. 1,436,405; Nov. 21.
Tables, Bracket for kitchen. S. Y. Sullivan. No. 1,402,910; Jan. 10.
Tables, Retaining attachment for operating. L. L. Lux. No. 1,429,956; Sept. 26.
Tablet, Wrist. H. W. Weiss. No. 1,407,239; Feb. 21.
Tablets, Manufacture of enameled writing. R. Zulauf. No. 1,438,154; Dec. 5.
Tablets, Producing cast. E. B. Clark. No. 1,413,261; Apr. 18.
Tabulating machines, Sector control for. W. W. Lasker. No. 1,423,439; July 18.
Tabulating mechanism. C. Haggemiller. No. 1,432,689; Oct. 17.
Tachometer. C. H. Veeder. No. 1,421,865; July 4.
Tack-handling mechanism. F. W. Taylor. No. 1,425,553; Aug. 15.
Tack holder. A. J. Hauskama. No. 1,403,408; Jan. 10.
Tack holder, Workman's. T. M. Hoskins. No. 1,435,896; Nov. 14.
Tack indicator. J. L. Young. No. 1,437,375; Nov. 28.
Tack, Lock. C. V. Limerick. No. 1,412,186; Apr. 11.
Tack machine. E. O. Starka. No. 1,416,136; May 16.
Tack machines, Automatic feeding device for. T. H. Wynn. No. 1,431,277; Oct. 10.
Tack puller and driver. A. Erickson. No. 1,410,801; Mar. 28.
Tack, Thumb. T. W. Anderson. No. 1,409,813; Mar. 14.
Tackle block. C. E. Davis. No. 1,408,273; Feb. 28.
Tackle block. C. H. M. Dörnte. No. 1,433,346; Oct. 24.
Tackle, Hoisting. O. J. Boettcher. No. 1,422,174; July 11.
Tackle book. J. H. Flynn, Jr. No. 1,421,442; July 4.
Tag. L. Baum. No. 1,412,445; Apr. 11.
Tag. W. Borchert. No. 1,412,998; Apr. 18.
Tag. S. R. Geist. No. 1,426,853; Aug. 22.
Tag. E. H. Ginn. No. 1,430,641; Oct. 3.
Tag. C. I. Minkoff. No. 1,403,338; Jan. 10.
Tag. C. C. Tolg. No. 1,429,465; Sept. 19.
Tag for babies, Identification. L. A. and J. G. Huntoon. No. 1,424,747; Aug. 1.
Tag for motor vehicles, License. B. H. Börreson. No. 1,428,747; Sept. 12.
Tag for vehicles, License. W. A. Rein. No. 1,432,495; Oct. 17.
Tag, Hay and straw. G. des T. Maisons. No. 1,419,161; June 13.
Tag holder. A. Avery. No. 1,438,807; Dec. 12.
Tag holder. I. H. Gray. No. 1,410,402; Mar. 21.
Tag holder. A. Lessard. No. 1,435,402; Nov. 14.
Tag holder, Chauffeur's identification-. E. A. Vera. No. 1,429,119; Sept. 12.
Tag holder, Shipping-. S. C. Rogers. No. 1,405,006; Jan. 31.
Tag, Identification. W. W. Holman. No. 1,430,995; Oct. 3.
Tag, Illuminated license. E. S. Pease and F. Reynolds. No. 1,430,845; Oct. 3.
Tag, Laundry. A. F. Hanney. No. 1,411,092; Mar. 28.
Tag, Laundry. M. G. Rosenthal. No. 1,415,713; May 9.
Tag, Marking. J. A. Bradley and E. L. Bortsfeld. No. 1,438,629; Dec. 12.
Tag or label holder. C. Quin. No. 1,433,414; Oct. 24.
Tag, Parcel-post-envelope. W. B. Perrin. No. 1,428,494; Sept. 5.
Tag, Price. F. Kohnle. No. 1,416,665; May 16.
Tag, Price. F. Kohnle. Nos. 1,438,043-4; Dec. 5.
Tag, Shipping. A. E. Fish. No. 1,423,557; July 25.
Tags, Machine for attaching laundry. G. H. Williams. No. 1,426,330; Aug. 15.
Tail-docking device. F. C. Metzler. No. 1,425,671; Aug. 15.
Tail light. G. S. Ellithorpe. No. 1,431,639; Oct. 10.
Tail-light and license-plate holder. W. P. Mendenhall. No. 1,419,745; June 13.
Tail light and number plate. R. S. Croshaw. No. 1,423,648; July 25.
Tailstock. R. Hill. No. 1,432,753; Oct. 14.
Tailor's try-on clasp. F. V. Moren. No. 1,419,165; June 13.
Take-up. G. S. Gatchell. No. 1,414,352; May 2.
Take-up device, Automatic. F. Jerdone, Jr. Nos. 1,421,783-4; July 4.
Taking photographic measurements. G. Moe. No. 1,414,481; May 2.
Talking and other machines, Winding device for motors of. C. J. Goodman. No. 1,417,314; May 23.
Talking and picture-exhibiting machine, Combined. J. L. Boyle. No. 1,434,526; Nov. 7.
Talking machine. F. Cirelli. No. 1,412,166; Apr. 11.
Talking machine. F. Cirelli. No. 1,412,841; Apr. 18.
Talking machine. E. A. Eschinger. No. 1,405,675; Feb. 7.
Talking machine. P. Farb. No. 1,409,369; Mar. 14.
Talking machine. V. Pegley. No. 1,416,549; May 16.
Talking machine. D. J. Hood. No. 1,422,712; July 11.
Talking machine. M. E. Lyle, J. J. Scully, and F. L. Capps. No. 1,412,059; Apr. 11.
Talking machine. J. N. Pepin. No. 1,437,192; Nov. 28.
Talking machine. A. W. Rivett. No. 1,430,469; Sept. 26.
Talking machine. S. Schlesinger. No. 1,417,111; May 23.
Talking machine. B. R. Seabrook. No. 1,436,689; Nov. 28.
Talking machine. J. F. Smith. No. 1,439,533; Dec. 19.
Talking machine, Automatic. J. Gabel. Nos. 1,414,563-4; May 2.
Talking machine, Automatic. L. Y. Squibb. No. 1,433,103; Oct. 24.
Talking-machine cabinet. R. A. Boswell. No. 1,429,839; Sept. 19.
Talking-machine cabinet and amplifier. J. B. Browning. No. 1,402,738; Jan. 10.
Talking-machine disk-record cabinet. H. H. Gerstner. No. 1,422,959; July 18.
Talking-machine needle or stylus. E. A. Widmann. No. 1,409,630; Mar. 14.
Talking-machine record and making same. E. R. Harris. No. 1,413,984; Apr. 25.
Talking-machine record and method and apparatus therefor. D. Higham. No. 1,414,185; Apr. 25.
Talking-machine record, Laminated. V. H. Emerson. No. 1,423,517; July 25.
Talking-machine records, Cabinet for containing. J. Green. No. 1,429,339; Sept. 19.
Talking-machine records, Filing device for. A. L. Weis. No. 1,435,036; Nov. 7.

Alphabetical list of inventions—Continued.

- Talking-machine records, Holder for. H. Weide. No. 1,420,004; June 20.
- Talking-machine records, Magnetic brush for cleaning. C. E. Duclos. No. 1,410,660; Mar. 28.
- Talking-machine records, Method and means for resurfacing. E. T. Hails. No. 1,405,208; Jan. 31.
- Talking-machine reproducer. F. G. Mathieu. No. 1,408,820; Mar. 7.
- Talking-machine sound box. J. C. Drake. No. 1,419,238; June 13.
- Talking-machine sound box. A. H. Gay. No. 1,418,249; May 30.
- Talking-machine stop. F. D. Appleton. No. 1,436,561; Nov. 21.
- Talking-machine stop. H. E. Dakin. No. 1,409,085; Mar. 7.
- Talking machines. F. C. Hinckley. No. 1,422,266; July 11.
- Talking machines, Automatic nonset stop for. L. Coplin. No. 1,415,800; May 9.
- Talking machines, Automatic stop for. J. Brandstetter. No. 1,427,717; Aug. 29.
- Talking machines, Automatic stop for. J. Brandstetter. No. 1,432,232; Oct. 17.
- Talking machines, Automatic stop for. F. Cheney. No. 1,435,697; Nov. 14.
- Talking machines, Automatic stop for. A. C. Iliffe. No. 1,408,740; Mar. 7.
- Talking machines, Automatic stop for. E. E. Wiford. No. 1,404,078; Jan. 17.
- Talking machines, Automatic stop for disk records for. J. F. Bland. No. 1,410,158; Mar. 21.
- Talking machines, Automatic stop mechanism for. L. G. Larsen. No. 1,405,046; Jan. 31.
- Talking machines, Brake mechanism for. M. Nystrom. No. 1,406,579; Feb. 14.
- Talking machines, Brake mechanism for. H. W. Youngquist. No. 1,437,700; Dec. 5.
- Talking machines, Cabinet for. J. B. Weeks. No. 1,410,977; Mar. 28.
- Talking machines, Continuous player for. A. C. Palson. No. 1,436,004; Nov. 21.
- Talking machines, Disk-placing mechanism for. C. B. Coe. No. 1,410,734; Mar. 28.
- Talking machines, Driver for disk. R. L. Holliman and J. W. Collins. No. 1,406,864; Feb. 14.
- Talking machines, Electric motor for. W. W. Dean. No. 1,415,430; May 9.
- Talking machines, Governor mechanism for. M. Nystrom. No. 1,403,344; Jan. 10.
- Talking machines, Motor for. F. Cheney. No. 1,421,404; July 4.
- Talking machines, Record cabinet for. J. B. Ogden. No. 1,422,612; July 11.
- Talking machines, Record holder for. G. N. Hughes. No. 1,402,614; Jan. 3.
- Talking machines, Repeating and stopping device for. F. B. Mitchell. No. 1,429,755; Sept. 19.
- Talking machines, Repeating attachment for. E. G. Clements. No. 1,414,980; May 2.
- Talking machines, Replaying device for. R. B. Howard. No. 1,430,450; Sept. 26.
- Talking machines, Reproducer for. E. M. Low. No. 1,424,838; Aug. 8.
- Talking machines, Sound amplifier for. L. B. Prout. No. 1,437,677; Dec. 5.
- Talking machines, Sound box for. H. Y. Prendergast. No. 1,408,776; Mar. 7.
- Talking machines, Sound box for. J. F. Smith. No. 1,412,294; Apr. 11.
- Talking machines, Stop mechanism for. L. Coplin. No. 1,402,574; Jan. 3.
- Talking machines, Stop mechanism for. J. E. Renholdt. No. 1,432,727; Oct. 17.
- Talking machines, Tone-modulating device for. E. H. Fairbanks. No. 1,407,523; Feb. 21.
- Talking machines, Turntable for. J. Kralund. No. 1,438,765; Dec. 12.
- Talking machines, Turntable for. A. Vasselli. No. 1,433,471; Oct. 24.
- Tamale-making apparatus. A. M. Ojeda. No. 1,433,471; Oct. 24.
- Tambourine. W. A. Barry. No. 1,434,278; Oct. 31.
- Tamper. C. Jackson. No. 1,431,808; Oct. 10.
- Tamping machine. C. W. Bradley. No. 1,431,364; Oct. 10.
- Tamping machine. S. Marcotte. No. 1,431,537; Oct. 10.
- Tamping machine. A. Wickstrom. No. 1,408,668; Mar. 7.
- Tamping tool. G. Kohler. No. 1,420,196; June 20.
- Tandem roller. F. A. Browne. No. 1,421,665; July 4.
- Tank: See—
- Spraying tank.
- Supply tank.
- Toilet tank.
- Transformer tank.
- Vacuum tank.
- Water tank.
- Tank. V. C. Crites. No. 1,430,798; Oct. 3.
- Tank. H. H. Howell. No. 1,434,897; Nov. 7.
- Tank. C. H. Loop. No. 1,416,849; May 23.
- Tank. N. A. Smith. No. 1,439,768; Dec. 26.
- Tank and closure. C. E. Glessner. No. 1,421,454; July 4.
- Tank and water heater. H. Swiers. No. 1,433,755; Oct. 31.
- Tank closure. G. L. Smith and D. F. Asbury. No. 1,420,063; June 20.
- Tank-closure lock. H. H. Brooker. No. 1,407,922; Feb. 28.
- Tank construction. A. A. Kramer. No. 1,422,107; July 11.
- Tank, Dispensing. W. H. Opitz. No. 1,422,124; July 11.
- Tank filling and discharge fittings, Bung for. J. Darling and W. W. Curry. No. 1,422,542; July 11.
- Tank for combustible liquids. T. S. McCahon. No. 1,413,043; Apr. 18.
- Tank gauge. W. J. Schaedler. No. 1,423,544; July 25.
- Tank heater. G. Alderson. No. 1,433,352; Dec. 12.
- Tank heater. H. A. Barrett. Nos. 1,408,680-2; Mar. 7.
- Tank linings; Constructing acid-proof. R. T. Wales. No. 1,433,315; Oct. 24.
- Tank or storage receptacle. W. H. Parton. No. 1,427,166; Aug. 29.
- Tank or vessel, Refrigerating. D. Fernald. No. 1,412,802; Apr. 11.
- Tank-registering device. S. G. Van Derbeck. No. 1,412,429; Apr. 11.
- Tank-registering gauge. J. C. Fox. No. 1,431,516; Oct. 10.
- Tank siphon. W. Rine. No. 1,406,080; Feb. 7.
- Tank-testing apparatus. F. A. Jacobs. No. 1,429,949; Sept. 26.
- Tanks, Agitating apparatus for. T. H. Mumford, jr. No. 1,431,022; Oct. 3.
- Tanks, Ball cock for flush. C. H. Gunn. No. 1,408,192; Feb. 28.
- Tanks, Clamp to be used on knockdown clamp. J. F. A. Deck. No. 1,402,744; Jan. 10.
- Tanks, Flash check for acetylene-gas. A. F. Westlund. No. 1,407,610; Feb. 21.
- Tanks, Fuel strainer for. W. E. Brock. No. 1,415,217; May 9.
- Tanks, Plastic composition for flush. J. G. Loch and C. Di Battista. No. 1,438,840; Dec. 12.
- Tanks, Reserve-supply system for. J. G. O'Brien and F. A. Picard. No. 1,425,681; Aug. 15.
- Tanks, Safety lid for. A. B. Facciano. No. 1,436,488; Nov. 21.
- Tanks, Submerged heater for. J. G. Sawicki. No. 1,420,759; June 27.
- Tanks, Water gauge for. F. W. Martin. No. 1,408,218; Feb. 28.
- Tanning. W. H. Ockleston and T. B. Carmichael. No. 1,413,488; Apr. 18.
- Tanning. A. Romer and L. Blangey. No. 1,414,045; Apr. 25.
- Tanning. A. Römer and L. Blangey. No. 1,421,722; July 4.
- Tanning agents, Manufacture and production of. R. B. Croad and G. E. Knowles. No. 1,437,726; Dec. 5.
- Tanning, Chrome. F. Hirsch. No. 1,404,957; Jan. 31.
- Tanning composition. R. B. Cock. No. 1,402,283; Jan. 3.
- Tanning drums, Driving means for. E. Roth. No. 1,423,028; July 18.
- Tanning hides and skins. E. W. Merry. No. 1,415,671; May 9.
- Tanning materials, Manufacture of. C. Sorger. No. 1,414,312; Apr. 25.
- Tanning, preparation. J. K. Tullis. No. 1,430,477; Sept. 26.
- Tanning process. L. and G. Dufour. No. 1,429,851; Sept. 19.
- Tanning process. F. Wayland. No. 1,430,479; Sept. 26.
- Tanning with aluminum salts. O. Röhm. No. 1,421,723; July 4.
- Tanning with iron salts. O. Röhm. No. 1,426,322; Aug. 15.
- Tap. G. E. Miller. No. 1,432,079; Oct. 17.
- Tap, Adjustable. A. F. Breitenstein. No. 1,435,695; Nov. 14.
- Tap and die, Adjustable. T. J. Dowd. No. 1,429,850; Sept. 19.
- Tap, Collapsible. R. A. Boehm. No. 1,415,013; May 9.
- Tap, Collapsible. H. F. Stahlbrodt. No. 1,409,603; Mar. 14.
- Tap, Expanding. C. H. Dommett. No. 1,438,367; Dec. 12.
- Tap or reamer wrench, Adjustable. W. W. Marshall. No. 1,432,713; Oct. 17.
- Tap, Spigot. W. E. Muntz. No. 1,403,186; Jan. 10.
- Tap wrench. G. H. F. Kayser. No. 1,413,660; Apr. 25.
- Tap wrench or vise, Appliance adapted for use as a. M. Seillon and E. Reuter. No. 1,410,611; Mar. 28.
- Taps, reamers, dies, or the like, Holder for. H. Thomas. Nos. 1,436,368-9; Nov. 21.
- Tape and making same. B. W. Gates. No. 1,410,745; Mar. 28.
- Tape-applying machine. W. D. Kimball and A. E. Rideout. No. 1,434,212; Oct. 31.
- Fuel-supply tank.
- Gasoline tank.
- Liquid-dispensing tank.
- Rendering tank.
- Reserve-supply tank.
- Sand-separating tank.
- Septic tank.
- Settling tank.
- Settling and septic tank.
- Sewerage disposal tank.

- Tape attachment. M. H. Ballou. No. 1,403,376; Jan. 10.
 Tape-delivering machine. S. B. Emmert. No. 1,431,575; Oct. 10.
 Tape dispensing and moistening machine. H. A. Stone. No. 1,432,307; Oct. 17.
 Tape fabric and producing same, Friction. F. B. Carlisle. No. 1,402,918; Jan. 10.
 Tape for measuring shoes, Foot. G. Clausing. No. 1,431,873; Oct. 10.
 Tape, Gummed. A. P. Ingram. No. 1,426,569; Aug. 22.
 Tape-holding device, Gum-. V. J. Van Horn. No. 1,425,815; Aug. 15.
 Tape, Machine for dispensing and moistening gummed. H. A. Stone. No. 1,431,605; Oct. 10.
 Tape or ribbon reel. F. J. Gramelsbach. No. 1,409,945; Mar. 21.
 Tape, Pocket. R. J. Simpson. No. 1,415,489; May 9.
 Tape reel. W. C. Campbell. No. 1,412,449; Apr. 11.
 Tape reel. C. F. Dieckmann. No. 1,423,516; July 25.
 Tape remover. G. J. Smalley. No. 1,407,955; Feb. 28.
 Tape-selva stop-motion stand. J. A. Sorrells. No. 1,416,133; May 16.
 Tapes, Latch release for. C. W. Crogan. No. 1,424,085; July 25.
 Tapeline-case stop. C. W. Crogan. No. 1,434,528; Nov. 7.
 Tapeline holder. J. H. Currie. No. 1,408,347; Feb. 28.
 Tapeline holder. C. Simmons. No. 1,407,429; Feb. 21.
 Tapeline terminal. C. W. Crogan. No. 1,438,003; Dec. 12.
 Tapper and stopper, Safety cupola. A. G. Kaiser, J. Nahirny, and C. F. Erxleben. No. 1,437,661; Dec. 5.
 Tappet. J. C. Reaves. No. 1,405,719; Feb. 7.
 Tappet-wrench set. M. E. Moore, Jr. No. 1,404,881; Jan. 31.
 Tapping machine. C. A. Campbell. No. 1,404,371; Jan. 42.
 Tapping machines, Attachment for. A. J. Barber. No. 1,426,273; Aug. 15.
 Tar, Apparatus for distilling. C. Schaer. No. 1,415,057; May 9.
 Tar, Plant and process for distilling. C. Schaer. No. 1,415,056; May 9.
 Tar, sand, and asphalt mixer. T. H. Murphy. No. 1,405,543; Feb. 7.
 Tar, Separation of oils and pitch from. R. Lessing. No. 1,405,234; Jan. 31.
 Target apparatus. A. Michoud. No. 1,406,674; Feb. 14.
 Target box. L. A. Griffin. No. 1,438,996; Dec. 19.
 Target designation, Instructing device for. W. C. McKean. No. 1,402,940; Jan. 10.
 Target for small-arms practice. C. Fenton. No. 1,415,823; May 9.
 Target frame. F. K. Kennedy, Jr. No. 1,413,032; Apr. 18.
 Target, Self-indicating. A. Michoud. No. 1,402,523; Jan. 3.
 Target, Self-indicating. K. Wang. No. 1,435,768; Nov. 14.
 Tarry device. P. Stoner. No. 1,419,082; June 6.
 Tassel. F. P. Prevot. No. 1,425,336; Aug. 8.
 Tassel. S. Rosenblum. No. 1,413,618; Apr. 25.
 Tattling shuttle. A. G. Hohnngen. No. 1,432,184; Oct. 17.
 Taximeter. F. W. Phillips. No. 1,438,853; Dec. 12.
 Tea, coffee, and the like, Means for use in the infusion of. A. Ford. No. 1,439,665; Dec. 19.
 Teakettle and other boiling receptacle. F. C. Blackburn. No. 1,435,579; Nov. 14.
 Tea-leaf-rolling machine. H. A. Tempelaar. No. 1,425,722; Aug. 15.
 Teapot. F. Lowenstein. No. 1,413,282; Apr. 18.
 Teapot. A. F. Saunders. No. 1,420,758; June 27.
 Teapot and coffeepot. W. G. Barratt. No. 1,416,321; May 16.
 Teapot, coffeepot, and like article provided with spout. A. H. Gibson. No. 1,434,740; Nov. 7.
 Teapots, Adjustable container for. H. Pearl. No. 1,424,774; Aug. 8.
 Teaching arithmetic, Appliance for. S. Russell. No. 1,405,010; Jan. 31.
 Teaching bookkeeping, Apparatus for. F. Tod. No. 1,415,278; May 9.
 Teaching universal history, Chart for. G. Detrick. No. 1,406,173; Feb. 14.
 Tearing machine. C. H. Cliff. No. 1,407,636; Feb. 21.
 Tearing tester. A. Elmendorf. Nos. 1,423,841-2; July 25.
 Teat cup. M. C. Barden. No. 1,412,158; Apr. 11.
 Teat cups, Ring inserter for milking machine. F. S. Snyder. No. 1,408,039; Feb. 28.
 Tee. A. E. Lard. No. 1,410,483; Mar. 21.
 Teeming device. W. J. Schultz. No. 1,403,646; Jan. 17.
 Teeter board. J. R. Davis. No. 1,437,888; Dec. 5.
 Teeter device. W. S. Tothill. No. 1,418,037; May 30.
 Teeter, Swiveling. A. B. Christopher. No. 1,427,722; Aug. 29.
 Teeter totter. I. M. Jacobs and W. Cramer. No. 1,426,082; Aug. 15.
 Teeth and applying same, Filling anchor for. G. Holtz. No. 1,416,558; May 16.
 Teeth and backings therefor. F. Z. Hianscom. No. 1,435,601; Nov. 14.
 Teeth, Apparatus for casting fillings for. W. H. Richards. No. 1,421,988; July 4.
 Teeth, Button for removably fixing the suction disk of a set of. E. A. Schmerel. No. 1,424,321; Aug. 1.
 Teeth, Facing pin for artificial. F. Maehlen and G. L. Van Allen. No. 1,429,748; Sept. 19.
 Teeth, Making artificial. J. E. Rose. No. 1,407,484; Feb. 21.
 Teeth, Mold for artificial. P. J. Pullen. No. 1,408,533; Mar. 7.
 Teeth, Mold guide for artificial. C. J. Duffy. No. 1,423,921; July 25.
 Teeth mounts, Artificial-. H. A. Edwards. No. 1,422,044; July 4.
 Teeth, Setting tacks in porcelain. I. Shikusawa. No. 1,427,237; Aug. 29.
 Telautographic apparatus. G. S. Tiffany. No. 1,426,233; Aug. 15.
 Telautographs, Motor mechanism for operating. S. Kucharski. No. 1,418,657; June 6.
 Teledynamic control. J. H. Hammond, Jr. No. 1,418,796; June 6.
 Teledynamic control. J. H. Hammond, Jr. No. 1,418,869; June 6.
 Teledynamic control for dirigible bodies, System of. J. H. Hammond, Jr. No. 1,418,793; June 6.
 Teledynamic control, System of. J. H. Hammond, Jr. No. 1,418,794; June 6.
 Teledynamic control, System of. J. H. Hammond, Jr. No. 1,420,256; June 20.
 Teledynamic orientation system. J. H. Hammond, Jr. No. 1,420,629; June 27.
 Telegram holder. J. A. Hulit. No. 1,424,907; Aug. 8.
 Telegraph. J. N. Correia. No. 1,434,773; Nov. 7.
 Telegraph. A. Cunningham. No. 1,434,283; Oct. 31.
 Telegraph apparatus. E. L. Klingel. No. 1,418,000; May 30.
 Telegraph circuit, Carrier. H. A. Affel. No. 1,402,991; Jan. 10.
 Telegraph distribution, System of. L. M. Potts. No. 1,419,409; June 13.
 Telegraph, Fire-alarm. L. Degen. No. 1,405,673; Feb. 7.
 Telegraph instrument. G. I. Shelton. No. 1,436,541; Nov. 21.
 Telegraph machine, Recording. J. A. Hulit. No. 1,428,033; Sept. 5.
 Telegraph, Printing. A. H. Adams. No. 1,401,950; Jan. 3.
 Telegraph, Printing. A. H. Adams. No. 1,426,803; Aug. 22.
 Telegraph projecting machine, Printing-. W. J. Kahl. No. 1,432,250; Oct. 17.
 Telegraph receiver, Printing-. H. Pfannenstiel and E. P. Bancroft. No. 1,426,768; Aug. 22.
 Telegraph signal, Visual. A. H. Matthews. No. 1,413,049; Apr. 18.
 Telegraph signals, Receiving. C. H. Teegarden. No. 1,440,036; Dec. 26.
 Telegraph sounder. C. H. Teegarden. No. 1,406,428; Feb. 14.
 Telegraph system. J. H. Bell. No. 1,403,833; Jan. 17.
 Telegraph system. J. H. Bell. No. 1,434,767; Nov. 7.
 Telegraph system. G. C. Cummings. No. 1,409,362; Mar. 14.
 Telegraph system. G. C. Cummings. No. 1,426,821; Aug. 22.
 Telegraph system. J. L. McQuarrie. No. 1,409,386; Mar. 14.
 Telegraph system. P. M. Rainey. No. 1,407,042; Feb. 21.
 Telegraph system and apparatus. H. L. Krum. No. 1,434,290; Oct. 31.
 Telegraph system, Printing-. A. D. Dowd. No. 1,432,978; Oct. 24.
 Telegraph system, Printing-. A. E. Lundell. No. 1,438,961; Dec. 19.
 Telegraph transmitter. C. Phillips, jr. No. 1,407,572; Feb. 21.
 Telegraph transmitter attachment. C. F. Gruetter. No. 1,438,107; Dec. 5.
 Telegraphic signal transmitter. W. Glaser. No. 1,437,237; Nov. 28.
 Telegraphic transmissions, Method and apparatus for. J. W. Milnor. No. 1,439,633; Dec. 19.
 Telegraphs, Transmitter for selective or printing. C. L. and H. L. Krum. No. 1,419,677; June 13.
 Telegraphy. T. B. Dixon. No. 1,408,446; Mar. 7.
 Telegraphy and other purposes, Thermionic apparatus for wireless. L. B. Turner. No. 1,422,013; July 4.
 Telegraphy, Cable. H. Angel. No. 1,431,865; Oct. 10.
 Telegraphy, Crystal detector for wireless. A. Bonnefont. No. 1,410,793; Mar. 28.
 Telegraphy, Method of and apparatus for facsimile. A. Montellibet. No. 1,434,064; Oct. 31.
 Telegraphy, Signaling unit for wireless. S. G. Frost. No. 1,424,294; Aug. 1.
 Telemechanic installation. A. M. Mayer. No. 1,435,868; Nov. 14.
 Telemeter, Horizontal. F. Riedinger. No. 1,414,790; May 2.
 Telemeter system. O. Eppenstein. No. 1,414,779; May 2.
 Telemotor. C. A. Helfer. No. 1,422,705; July 11.
 Telemotor. A. H. Heyroth. No. 1,414,018; Apr. 25.
 Telemotors, Master controller for. M. B. Benson. No. 1,409,356; Mar. 14.
 Telephone. M. C. A. Latour. No. 1,421,015; June 27.
 Telephone. R. L. Murray. No. 1,412,539; Apr. 11.
 Telephone. G. B. Riley. No. 1,432,623; Oct. 17.
 Telephone accessory. J. Fleischman. No. 1,419,551; June 13.
 Telephone and wireless-telegraphy installation. L. N. Brillouin. No. 1,404,574; Jan. 24.

Alphabetical list of inventions—Continued.

- Telephone and wireless-telegraphy installation. L. N. Brillouin and G. A. Beauvais. No. 1,405,267; Jan. 31.
- Telephone apparatus. J. F. Toomey. No. 1,407,046; Feb. 21.
- Telephone attachment. C. Rosine and E. N. Boucher. No. 1,434,265; Oct. 31.
- Telephone attachment. L. J. Sampson. (Reissue.) No. 15,512; Dec. 26.
- Telephone attachment. A. G. Sheller. No. 1,404,800; Jan. 31.
- Telephone attachment. T. W. Small. No. 1,422,487; July 11.
- Telephone attachment. F. E. Wampach and A. E. Karlberg. No. 1,425,559; Aug. 15.
- Telephone attachment. P. J. Werber. No. 1,404,817; Jan. 31.
- Telephone, Auricular. L. Weber. No. 1,406,510; Feb. 14.
- Telephone, Automatic hand. L. W. Kelsay. No. 1,435,243; Nov. 14.
- Telephone cabinet. H. W. Van Dorin. No. 1,413,881; Apr. 25.
- Telephone-call circuits. J. F. Toomey and O. H. Loynes. No. 1,427,923; Sept. 5.
- Telephone circuit. G. W. Kuhn. No. 1,416,724; May 23.
- Telephone-circuit relay. J. E. L. Puget. No. 1,437,679; Dec. 5.
- Telephone circuit, Substation. T. G. Martin. No. 1,424,368; Aug. 1.
- Telephone circuits at a distance. Apparatus for opening. L. S. Bohac. No. 1,436,570; Nov. 21.
- Telephone directory. C. R. Hilberry. No. 1,426,566; Aug. 22.
- Telephone exchange, Automatic. F. A. Lundquist. No. 1,439,427; Dec. 19.
- Telephone-exchange system. W. P. Andrick and J. F. Dahl. No. 1,415,853; May 16.
- Telephone-exchange system. R. S. Bailey. No. 1,433,594; Oct. 31.
- Telephone-exchange system. R. S. Bailey. No. 1,434,518; Nov. 7.
- Telephone-exchange system. E. H. Clark. No. 1,426,817; Aug. 22.
- Telephone-exchange system. E. H. Clark. Nos. 1,438,743-4; Dec. 12.
- Telephone-exchange system. H. P. Clausen and C. L. Goodrum. No. 1,403,845; Jan. 17.
- Telephone-exchange system. H. P. Clausen and C. L. Goodrum. No. 1,426,818; Aug. 22.
- Telephone-exchange system. E. E. Clement. No. 1,416,088; May 16.
- Telephone-exchange system. E. W. Hancock. No. 1,439,735; Dec. 26.
- Telephone-exchange system. C. W. Keckler. No. 1,419,569; June 13.
- Telephone-exchange system. A. E. Lundell. Nos. 1,403,861-2; Jan. 17.
- Telephone-exchange system. A. E. Lundell. No. 1,410,766; Mar. 28.
- Telephone-exchange system. A. E. Lundell and E. H. Clark. No. 1,438,841; Dec. 12.
- Telephone-exchange system. J. L. McQuarrie. No. 1,406,668; Feb. 14.
- Telephone-exchange system. H. L. Meade. No. 1,416,226; May 16.
- Telephone-exchange system. G. E. Mueller. No. 1,408,125; Feb. 28.
- Telephone-exchange system. L. Polinkowsky. No. 1,406,221; Feb. 14.
- Telephone-exchange system. L. Polinkowsky. No. 1,435,333; Nov. 14.
- Telephone-exchange system. A. Raynsford. No. 1,403,866; Jan. 17.
- Telephone-exchange system. F. M. Slough. No. 1,427,170; Aug. 29.
- Telephone-exchange system. J. F. Toomey. No. 1,431,195; Oct. 10.
- Telephone-exchange system. W. C. Weaver. No. 1,438,732; Dec. 12.
- Telephone-exchange system. H. G. Webster. No. 1,425,728; Aug. 15.
- Telephone-exchange system. N. T. Whitaker. No. 1,429,003; Sept. 12.
- Telephone-exchange system. S. B. Williams, jr. No. 1,435,950; Nov. 21.
- Telephone-exchange system. S. B. Williams, jr. No. 1,439,213; Dec. 19.
- Telephone-exchange system. J. L. Wright. No. 1,436,135; Nov. 21.
- Telephone-exchange system, Automatic. E. B. Craft and J. N. Reynolds. (Reissue.) No. 15,341; Apr. 25.
- Telephone-exchange system, Automatic. C. L. Goodrum. (Reissue.) No. 15,389; June 20.
- Telephone-exchange system, Automatic. J. W. Lattig and C. L. Goodrum. Nos. 1,438,959-60; Dec. 19.
- Telephone exchange system. Machine switching. S. B. Williams, Jr., and A. B. Sperry. (Reissue.) No. 15,310; Jan. 14.
- Telephone exchanges. Numbering system for automatic. W. G. Blauvelt. No. 1,439,723; Dec. 26.
- Telephone hand set. G. Deakin. No. 1,439,729; Dec. 26.
- Telephone hand set. W. C. Kiesel. No. 1,425,977; Aug. 15.
- Telephone hook switches. Attachment for. H. L. S. Williams. No. 1,418,764; June 6.
- Telephone-index mounting. H. R. Alborne. No. 1,440,048; Dec. 26.
- Telephone indexes. Spring clamp for. D. Umanoff. No. 1,440,038; Dec. 26.
- Telephone instrument. J. S. Newman. No. 1,430,117; Dec. 19.
- Telephone-line system. Loaded. T. Shaw and W. Fondiller. No. 1,433,305; Oct. 24.
- Telephone lock. W. F. Hemstreet. No. 1,440,078; Dec. 26.
- Telephone mouthpiece, Sanitary. A. A. Freedman. No. 1,416,275; May 16.
- Telephone mouthpiece, Sanitary. H. S. Wheaton. No. 1,404,413; Jan. 24.
- Telephone miller. T. Benedict. No. 1,419,606; June 13.
- Telephone muffler. J. D. Todd. No. 1,437,924; Dec. 5.
- Telephone or desk memorandum. F. E. Hare. No. 1,419,966; June 20.
- Telephone receiver. M. S. Conner. No. 1,404,584; Jan. 24.
- Telephone receiver. A. E. Coy. No. 1,403,592; Jan. 17.
- Telephone receiver. S. Honig. No. 1,417,479; May 23.
- Telephone receiver. L. Steinberger. No. 1,402,546; Jan. 3.
- Telephone receiver. J. S. Timmons. No. 1,414,105; Apr. 25.
- Telephone receiver and transmitter, Combined. J. S. Timmons. No. 1,428,567; Sept. 12.
- Telephone receiver of the watchcase type. F. W. Andrew. No. 1,439,785; Dec. 26.
- Telephone-receiver stand. W. S. Gibbs. No. 1,434,000; Oct. 31.
- Telephone-receiver support. N. F. Mansure. No. 1,418,820; June 6.
- Telephone receivers, Cushion for. O. W. Aagaard. No. 1,426,340; Aug. 22.
- Telephone repeater. B. C. Groh. No. 1,416,663; May 16.
- Telephone repeater, Voice-current. A. B. Smith. No. 1,412,067; Apr. 11.
- Telephone reproducer. F. Holmstrom, jr. No. 1,430,082; Sept. 26.
- Telephone selecting system, Automatic. W. T. Powell. No. 1,432,618; Oct. 17.
- Telephone set. F. E. Gallagher. No. 1,438,106; Dec. 5.
- Telephone sets. Casing for. J. S. Timmons. No. 1,412,982; Apr. 18.
- Telephone substation apparatus. H. W. Pugh. No. 1,406,223; Feb. 14.
- Telephone switch and system, Automatic. D. S. Hulfish. No. 1,427,473; Aug. 29.
- Telephone switchboard apparatus. B. Freile. No. 1,423,930; July 25.
- Telephone-switchboard cords. Testing apparatus for. G. W. Kuhn. No. 1,406,195; Feb. 14.
- Telephone switch, key-controlled. D. C. Walker and B. Weeks. No. 1,424,863; Aug. 8.
- Telephone switching apparatus. L. Polinkowsky. No. 1,433,298; Oct. 24.
- Telephone switching key. A. D. Hargan. No. 1,432,852; Oct. 24.
- Telephone system. H. P. Clausen and C. L. Goodrum. No. 1,407,985; Feb. 28.
- Telephone system. H. D. Currier. No. 1,428,762; Sept. 12.
- Telephone system. W. W. Dean. No. 1,403,671; Jan. 17.
- Telephone system. C. L. Goodrum. No. 1,412,734; Apr. 11.
- Telephone system. J. F. Hayden. No. 1,429,241; Sept. 19.
- Telephone system. H. J. Herink. No. 1,424,644; Aug. 1.
- Telephone system. M. Langer. No. 1,404,396; Jan. 24.
- Telephone system. J. H. Levis, jr. No. 1,435,931; Nov. 21.
- Telephone system. L. A. Mortimer. No. 1,406,678; Feb. 14.
- Telephone system. A. C. Reid. No. 1,413,782; Apr. 25.
- Telephone system. F. M. Slough. No. 1,402,905; Jan. 10.
- Telephone system. E. M. Slough. No. 1,407,892; Feb. 28.
- Telephone system. C. Sparks. Nos. 1,440,111-14; Dec. 26.
- Telephone system. A. B. Sperry. No. 1,406,236; Feb. 14.
- Telephone system. H. W. Ulrich. No. 1,408,046; Feb. 28.
- Telephone system. S. B. Williams, jr. No. 1,438,736; Dec. 12.
- Telephone system. G. A. Yanochowski. No. 1,405,175; Jan. 13.
- Telephone system, Automatic. H. P. Clausen. No. 1,403,844; Jan. 17.
- Telephone system, Automatic. D. L. Hulfish. No. 1,418,187; May 30.
- Telephone system, Automatic. H. H. Ide. No. 1,402,936; Jan. 10.
- Telephone system, Automatic. H. H. Ide. No. 1,413,027; Apr. 18.
- Telephone system, Automatic. E. Jacobsen. No. 1,436,261; Nov. 21.
- Telephone system, Automatic. T. Lenaghan. No. 1,409,737; Mar. 14.
- Telephone system, Automatic. T. G. Martin. No. 1,435,249; Nov. 14.
- Telephone system, Automatic. R. G. Richardson. No. 1,439,124; Dec. 19.
- Telephone system, Automatic. F. W. Scharf. No. 1,438,557; Dec. 12.
- Telephone system, Automatic. A. B. Smith. No. 1,412,094; Apr. 11.

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- Telephone system, Automatic. G. A. Yanochowski. Nos. 1,423,898-9; July 25.
- Telephone system, Call-distributing. F. M. Slough. No. 1,434,968; Nov. 7.
- Telephone system, Calling device for automatic. W. W. Owen. No. 1,435,253; Nov. 14.
- Telephone system, Electromechanical. W. T. Powell. No. 1,437,356; Nov. 28.
- Telephone system, Machine-switching. L. Polinkowsky. No. 1,412,572; Apr. 11.
- Telephone system, Machine-switching. S. B. Williams, Jr. No. 1,413,368; Apr. 18.
- Telephone system, Semiautomatic. C. A. W. Hultman. No. 1,431,116; Oct. 3.
- Telephone system, Semiautomatic. J. Wicks. No. 1,404,416; Jan. 24.
- Telephone system with flickering recall. H. D. Currier. No. 1,438,170; Dec. 12.
- Telephone systems, Call indicator for automatic. J. G. Blessing. No. 1,414,686; May 2.
- Telephone systems, Lockout mechanism for intercommunicating. T. H. Nelson. No. 1,419,403; June 13.
- Telephone systems, Special-service trunk for automatic. T. G. Martin. No. 1,415,001; May 2.
- Telephone-transmission system. W. H. Bendernagel. No. 1,435,447; Nov. 14.
- Telephone transmitter. A. E. Coy. No. 1,403,593; Jan. 17.
- Telephone transmitter. A. E. Keith. No. 1,412,080; Apr. 11.
- Telephone transmitter. J. P. Minton. No. 1,432,885; Oct. 24.
- Telephone transmitter. E. S. Pridham. Nos. 1,430,257-8; Sept. 26.
- Telephone transmitter. M. Setter. No. 1,408,648; Mar. 7.
- Telephone transmitter. L. Steinberger. No. 1,414,442; May 2.
- Telephone transmitters, Attachment for. F. Sutherland. No. 1,428,305; Sept. 5.
- Telephone trunk circuit. J. Wicks. No. 1,412,435; Apr. 11.
- Telephone trunk circuits. G. W. Kuhn and E. R. Lundius. No. 1,435,968; Nov. 21.
- Telephone trunking system, Automatic. A. M. Malmberg. (Reissue). No. 15,471; Oct. 17.
- Telephones and dictaphones, Sanitary transmitter device for. A. Connelly. No. 1,402,213; Jan. 3.
- Telephones, Apparatus applicable to the receivers of. F. Santos Lamadrid. No. 1,419,063; June 6.
- Telephonic apparatus. H. C. Pauly. No. 1,403,811; Jan. 17.
- Telephonic receiver. A. and L. D. Williams. No. 1,405,472; Feb. 7.
- Telephonic repeater. C. Robinson and R. M. Chamney. No. 1,429,634; Sept. 19.
- Telephonically transmitting speech, Method of and apparatus for. E. S. Pridham and P. L. Jensen. No. 1,430,256; Sept. 26.
- Telephony. H. S. Turner. No. 1,402,691; Jan. 3.
- Telephony. H. S. Turner. No. 1,421,864; July 4.
- Telephony. H. S. Turner. No. 1,434,975; Nov. 7.
- Telescope. H. W. Hales. No. 1,427,592; Aug. 29.
- Telescope, Double. K. Ahmels. No. 1,412,442; Apr. 11.
- Telescope, mount for rifles. W. B. Knoble. No. 1,418,935; June 6.
- Telescope, Reflecting. L. Bell. No. 1,428,935; Sept. 12.
- Telescope-sight mounting. R. Moske. No. 1,428,655; Sept. 12.
- Telescopic fastener. C. F. MacGill, jr. No. 1,431,674; Oct. 10.
- Telescopic hoist. S. S. Rathbun and O. P. Liebreich. No. 1,437,681; Dec. 5.
- Telescopic wrench. W. J. Parsons. No. 1,417,683; May 30.
- Telescoping elements, Friction clutch for. J. Schade. No. 1,418,329; June 6.
- Telescoping inside gauge and indicator. W. Wittner. No. 1,431,613; Oct. 10.
- Telescoping planer and shaper gauge. W. Wittner. No. 1,431,612; Oct. 10.
- Tellers, or other money handlers, Protector for. H. W. Huntress. No. 1,436,315; Nov. 21.
- Telpherage system. W. E. Harrison. No. 1,416,021; May 16.
- Telpherage system. J. Lamb. No. 1,429,888; Sept. 19.
- Temperature alarm device. S. Magaton. No. 1,410,490; Mar. 21.
- Temperature and humidity, and more particularly of dry kilns, Instrument for determining. D. D. Bundrick. No. 1,430,937; Oct. 3.
- Temperature and pressure controller. A. J. Nelson. No. 1,439,750; Dec. 26.
- Temperature apparatus, Refractory material for high-. H. B. Clapp. No. 1,437,584; Dec. 5.
- Temperature-changing apparatus. W. J. Davis. No. 1,407,013; Feb. 21.
- Temperature-compensated regulator. J. H. Hunt. No. 1,425,858; Aug. 15.
- Temperature-control mechanism, Automatic hot-blast. G. M. Hohl. No. 1,435,119; Nov. 7.
- Temperature control of kettles by zones. J. G. Lehman. No. 1,407,666; Feb. 21.
- Temperature-controlling apparatus. E. W. Graef. No. 1,431,224; Oct. 10.
- Temperature-controlling device. J. F. Gallagher. No. 1,433,074; Oct. 24.
- Temperature-controlling system. O. A. Colby. No. 1,438,635; Dec. 12.
- Temperature-controlling system. P. R. Owens. No. 1,422,886; July 18.
- Temperature indicator. L. V. Aronson. No. 1,423,066; July 18.
- Temperature indicator. B. Harris. No. 1,410,567; Mar. 28.
- Temperature indicator. A. Roth and P. A. Ferguson. No. 1,429,975; Sept. 26.
- Temperature-measuring device. G. Jensen. No. 1,411,033; Mar. 28.
- Temperature-regulating device. L. Reichold. No. 1,414,669; May 2.
- Temperature regulator. K. Dougan. No. 1,420,916; June 27.
- Temperatures, Heating at high. C. Field. No. 1,403,471; Jan. 10.
- Tempering and annealing, Apparatus for use in. D. S. Lavaud, B. F. Clark, and C. W. Baines. No. 1,420,379; June 20.
- Tempering apparatus. L. A. Frayer and W. J. Miller. No. 1,416,811; May 23.
- Template. H. E. Vrooman. No. 1,406,117; Feb. 7.
- Templates and jigs, Tools for laying out. F. D. Knapp and F. L. Jackson. No. 1,408,098; Feb. 28.
- Templet-filing jaw. T. T. Janis. No. 1,415,573; May 9.
- Tennis nets, Center stay for. P. A. Vaile. No. 1,409,981; Mar. 21.
- Tennis racket. G. Agutter. No. 1,423,900; July 25.
- Tennis racket. W. T. Aldrich. No. 1,427,568; Aug. 29.
- Tennis racket. F. G. J. Tournier. No. 1,409,621; Mar. 14.
- Tennis rackets and similar articles, Holder or press for. S. W. Holmes. No. 1,437,378; Nov. 28.
- Tension-controlling device. W. Lind. No. 1,425,528; Aug. 15.
- Tension device. P. A. Bishop. No. 1,433,495; Oct. 24.
- Tension device. W. Canova. No. 1,414,175; Apr. 25.
- Tension device. J. G. Carlson. No. 1,407,731; Feb. 28.
- Tension device. W. B. Harsel and R. B. Day. No. 1,419,049; June 6.
- Tension device. R. E. Naumburg. No. 1,437,116; Nov. 28.
- Tension device. A. H. Sawtell. No. 1,402,894; Jan. 10.
- Tension device. A. H. Sawtell. No. 1,437,997; Dec. 5.
- Tension device, Adjustable. C. W. Scheesley. No. 1,437,200; Nov. 28.
- Tension device and guide for thread, Combined. H. Riviere. No. 1,424,182; Aug. 1.
- Tension device and yarn cleaner. G. N. Taylor. No. 1,424,124; July 25.
- Tension mechanism. R. Loeb. No. 1,401,995; Jan. 3.
- Tension plank splice. W. T. Donnelly. No. 1,440,064; Dec. 26.
- Tensioning device. C. F. Pease. No. 1,414,579; May 2.
- Tensioning various materials, Method of and means for. W. C. Stevens. No. 1,410,136; Mar. 21.
- Tent. M. G. Cunningham. No. 1,411,711; Apr. 4.
- Tent. W. H. Hansen. No. 1,413,529; Apr. 18.
- Tent. E. T. O'Neal. No. 1,410,830; Mar. 28.
- Tent. F. W. Timmerman. No. 1,406,301; Feb. 14.
- Tent. J. H. Wittmann. No. 1,412,302; Apr. 11.
- Tent and bed. F. Ames. No. 1,423,171; July 18.
- Tent, Collapsible. R. T. Reed. No. 1,415,482; May 9.
- Tent-securing means therefor. T. Garvey. No. 1,402,592; Jan. 3.
- Tent ventilator. W. T. Runcie. No. 1,428,343; Sept. 5.
- Terminal. P. M. Hengstenberg. No. 1,437,103; Nov. 28.
- Terminal. F. L. Stuart. No. 1,410,621; Mar. 28.
- Terminal block. T. L. Lee. No. 1,412,083; Apr. 11.
- Terminal box. L. P. Hynes. No. 1,413,735; Apr. 25.
- Terminal clamp, Loop-forming. G. P. Bump. No. 1,422,660; July 11.
- Terminal connection, Motor. I. E. Kinser. No. 1,419,571; June 13.
- Terminal connector, Electrical-conductor. H. B. Sherman and F. Hanlan. No. 1,440,247; Dec. 26.
- Terminal, Track. S. English. No. 1,407,396; Feb. 21.
- Terpeneol, Preparation of. R. Marchand. No. 1,408,462; Mar. 7.
- Terrazzo safety tread. W. H. Chapman. No. 1,419,019; June 6.
- Test indicator. M. B. Hill. No. 1,411,725; Apr. 4.
- Test indicator, Dial. W. Wittner. No. 1,431,614; Oct. 10.
- Test system, Revertive. W. T. Powell. No. 1,437,357; Nov. 28.
- Tester. W. P. Cook. No. 1,422,742; July 11.
- Testor, Density. S. T. Howard. No. 1,437,058; Nov. 28.
- Testing apparatus. F. H. Best. No. 1,414,397; May 2.
- Testing apparatus. R. G. McCurdy. No. 1,421,702; July 4.
- Testing apparatus for indicating leaks. G. Bauer and F. Kramer. No. 1,423,902; July 25.
- Testing device. T. D. Lynch. No. 1,414,427; May 2.
- Testing device. G. E. Smith. No. 1,433,488; Oct. 24.
- Testing instrument, Clearance. N. T. Harrington. No. 1,437,053; Nov. 28.
- Testing instrument, Electrical. H. Fahlenberg. No. 1,433,264; Oct. 24.

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- Testing machine. L. E. Foster. No. 1,409,842; Mar. 14.
- Testing machine. W. J. Rattery. No. 1,421,562; July 4.
- Testing system. W. G. Blauvelt. No. 1,406,918; Feb. 14.
- Tetrahalogenated hydrocarbons, Apparatus for producing. W. H. Rodebush. No. 1,402,318; Jan. 3.
- Textile and other fabrics, thread, yarn, and the like, Treating. J. Takamine and J. Takamine, Jr. No. 1,421,613; July 4.
- Textile articles, Manufacture of hollow artificial. J. Rousset. No. 1,427,330; Aug. 29.
- Textile driers, Automatic dry collector for. T. M. Clappitt. No. 1,433,121; Oct. 24.
- Textile fabrics and the resulting product, Producing patterned. H. Giesler. No. 1,425,520; Aug. 15.
- Textile fabrics, Means for stiffening. O. Lobeck. No. 1,421,700; July 4.
- Textile-fiber-combing machine. F. Bricka. No. 1,408,438; Mar. 7.
- Textile fibers, Combing device for. A. E. Meyer. No. 1,429,519; Apr. 19.
- Textile fibers for spinning, Process of and apparatus for. G. C. Laurency and M. Vigier. No. 1,422,581; July 11.
- Textile fibers, Process and machine for combing. R. Schleifer. No. 1,408,780; Mar. 7.
- Textile goods and making same, Mixed. W. H. Schweitzer. No. 1,413,621; Apr. 25.
- Textile machine. C. A. Corrigan. No. 1,430,629; Oct. 3.
- Textile machine. J. L. Macfarlane. (Reissue.) No. 1,5510; Dec. 26.
- Textile machinery, Cloth clamp for. H. O. Wiegand. No. 1,426,482; Aug. 22.
- Textile-machinery stopping mechanism. E. F. Hathaway. No. 1,419,731; June 13.
- Textile materials, Degumming. G. Jenny and O. Jaeck. No. 1,430,523; Sept. 26.
- Textile, Ornamental. S. Miller. No. 1,406,208; Feb. 14.
- Textile reed. H. E. Hurtz. No. 1,420,262; June 20.
- Textile rovings, Drawing apparatus for. F. Casablancas. No. 1,440,274; Dec. 26.
- Textile rovings with feeding belts, Drawing mechanism for. F. Casablancas. No. 1,416,608; May 16.
- Textile stock, etc., Drier for. M. F. Kevlin. No. 1,428,290; Sept. 5.
- Textile-twisting machine. H. G. Beede. No. 1,403,832; Jan. 17.
- Thawing device. H. B. Renouf. No. 1,431,044; Oct. 3.
- Theater chair. A. G. Sadler. No. 1,435,741; Nov. 14.
- Theater, Picture-projection. A. L. Macbeth. No. 1,419,281; June 13.
- Theater seat. R. Brooks. No. 1,422,825; July 18.
- Theater-seat-indicating apparatus. R. H. Mecorney. No. 1,403,048; Jan. 10.
- Theaters, Advertising curtain for. C. F. Thompson. No. 1,429,802; Sept. 19.
- Theaters, and cinematographs, Contrivance for. P. Schweizer. No. 1,435,339; Nov. 14.
- Theaters, Seat indicator for. E. A. Henriksen. No. 1,425,255; Aug. 8.
- Theatrical appliance. E. H. Acker. No. 1,419,191; June 13.
- Theft from closed compartments, Apparatus for preventing. L. E. Vining. No. 1,429,306; Sept. 19.
- Theft preventer. J. Polivka. No. 1,414,666; May 2.
- Theodolite. M. Roux. No. 1,432,570; Oct. 17.
- Therapeutic apparatus. W. Meyer. No. 1,430,095; Sept. 26.
- Therapeutic application of light, Adjustable casing for. F. A. Anderson. No. 1,411,074; Mar. 28.
- Therapeutic device. H. D. McFadden. No. 1,429,443; Sept. 19.
- Therapeutical effects, Apparatus for producing. S. N. Baruch. No. 1,425,743; Aug. 15.
- Thermal ammeter. W. N. Goodwin, Jr. No. 1,407,147; Feb. 21.
- Thermal cut-out device. G. H. Whittingham. No. 1,422,802; July 11.
- Thermal electric cut-out. R. H. Maple. No. 1,415,253; May 9.
- Thermal relay. L. E. Warner. No. 1,429,660; Sept. 19.
- Thermionic regulator. P. K. McGill and H. R. Menefee. No. 1,426,751; Aug. 22.
- Thermionic voltmeter. R. A. Heising. (Reissue.) No. 1,5469; Oct. 17.
- Thermionically-active substance. W. Willson. No. 1,419,530; June 13.
- Thermit mixture. G. W. Merrefield. No. 1,430,667; Oct. 3.
- Thermocouple. T. G. Coghlan. No. 1,422,672; July 11.
- Thermodynamically-controlled knife switch. M. H. Baker. No. 1,407,315; Feb. 21.
- Thermoelectric alarm. A. M. de S. Greaves. No. 1,406,553; Feb. 14.
- Thermometer. L. S. Brach. No. 1,403,228; Jan. 10.
- Thermometer. N. Decarie. No. 1,420,022; June 20.
- Thermometer. H. P. Milker. No. 1,439,254; Dec. 19.
- Thermometer. E. Richardson. No. 1,423,257; July 18.
- Thermometer case. C. R. Wallendorf. No. 1,417,365; May 23.
- Thermometer case, Clinical. J. T. Burden. No. 1,416,785; May 23.
- Thermometer, Compensating. F. H. Hopkins. No. 1,404,771; Jan. 31.
- Thermometer, Electrical-resistance. C. H. Wilson and C. J. Brown. No. 1,411,396; Apr. 4.
- Thermometer holder case. W. A. Black. No. 1,405,709; Feb. 7.
- Thermometer holder, Clinical. J. T. Greeley. No. 1,406,373; Feb. 14.
- Thermometer, Metallic radiator. R. G. Hebrock. No. 1,420,038; June 20.
- Thermometer, Oven. H. R. Whittier. No. 1,432,936; Oct. 24.
- Thermometer stems, Fixing color markings on. H. T. Krigel. No. 1,405,231; Jan. 31.
- Thermophone and making it. T. C. Browne and C. F. Brush, Jr. No. 1,407,726; Feb. 28.
- Thermostat. P. E. Demmler. No. 1,406,352; Feb. 14.
- Thermostat. J. E. Gee. No. 1,419,246; June 13.
- Thermostat. J. F. Horsham. No. 1,418,928; June 6.
- Thermostat. P. B. Johnson. No. 1,439,897; Dec. 26.
- Thermostat. E. L. Klingel. No. 1,403,963; Jan. 17.
- Thermostat. F. H. Kolbe and E. R. De Luiz. No. 1,416,722; May 23.
- Thermostat. E. B. Lennig. No. 1,420,659; June 27.
- Thermostat. K. K. Roby. No. 1,437,818; Dec. 5.
- Thermostat. R. Thelen. No. 1,413,073; Apr. 18.
- Thermostat. M. A. Wicks. No. 1,429,476; Sept. 19.
- Thermostat and thermostatic control device. E. J. Rohne. No. 1,434,633; Nov. 7.
- Thermostat control. G. A. Krebs. No. 1,436,399; Nov. 21.
- Thermostat or the like, Time-controlled. C. L. Fortier. No. 1,419,667; June 13.
- Thermostat plug. E. B. Lennig. No. 1,436,267; Nov. 21.
- Thermostat, Protected. E. E. Gold. No. 1,418,913; June 6.
- Thermostat switch. F. C. Boyd and A. J. Barnes. No. 1,439,399; Dec. 19.
- Thermostatic apparatus. A. E. Colgate. No. 1,412,773; Apr. 11.
- Thermostatic circuit closer. A. A. Buck. No. 1,408,168; Feb. 28.
- Thermostatic control apparatus. A. D. Horne. No. 1,434,542; Nov. 7.
- Thermostatic control, Apparatus for. N. Hofstad. No. 1,417,738; May 30.
- Thermostatic device. P. Mirk. No. 1,408,122; Feb. 28.
- Thermostatic electric switch. J. H. Reichart. No. 1,415,050; May 9.
- Thermostatic indicator. W. Morelli. No. 1,406,476; Feb. 14.
- Thermostatic pilot-light control. N. B. Wales. No. 1,418,994; June 6.
- Thermostatic regulating device. W. M. Fulton. No. 1,404,844; Jan. 31.
- Thermostatic regulating or controlling apparatus. A. H. McNeil. No. 1,416,851; May 23.
- Thermostatic switch. P. F. Apfel. No. 1,426,447; Aug. 22.
- Thermostatic switch. B. M. Fine. No. 1,407,020; Feb. 21.
- Thermotelephone transmitter and receiver. R. Aernout Baron van Lynden. No. 1,431,196; Oct. 10.
- Thickness gauge, Adjustable. L. Lowenstein. No. 1,433,559; Oct. 31.
- Thief signal. L. Fried. No. 1,438,819; Dec. 12.
- Thigh guard. W. P. Whitley. No. 1,428,731; Sept. 12.
- Thimble. R. Luse, (now by marriage R. L. Claar.) No. 1,405,928; Feb. 7.
- Thimble and stovepipe holder, Combined. S. E. Barr. No. 1,421,359; July 4.
- Thimble Chimney. L. B. Malinowsky and C. W. Kirk. No. 1,414,367; May 2.
- Thimble-decorating device. F. J. Kristofek. No. 1,414,820; May 2.
- Thistle eradicator. O. Murk. No. 1,429,293; Sept. 19.
- Thistle-pulling machine. H. F. Hoehne. No. 1,410,252; Mar. 21.
- Thorium, Recovery of. L. W. Ryan. No. 1,407,441; Feb. 21.
- Thrasher. J. M. Lunz. No. 1,428,599; Sept. 12.
- Thrasher. F. Owen. No. 1,426,498; Aug. 22.
- Thrasher and clover huller, Combined. J. Harvat. No. 1,416,820; May 23.
- Thrasher cylinders, Speed regulator for. D. K. North. No. 1,404,472; Jan. 24.
- Thrashers, Driving attachment for. C. M. Elliott. No. 1,430,440; Sept. 26.
- Thrashers, Grain feeder for. H. J. F. Luchsinger. No. 1,410,334; Mar. 21.
- Thrashing machine. E. Boe. No. 1,422,023; July 4.
- Thrashing machine. G. P. Luedke. (Reissue.) No. 1,5384; June 13.
- Thrashing machine. J. B. Milton. No. 1,413,758; Apr. 25.
- Thrashing machine. R. H. Owen. No. 1,402,534; Jan. 3.
- Thrashing machine. G. E. Richmond. No. 1,424,119; July 25.
- Thrashing machine. J. E. Sanders. No. 1,428,911; Sept. 12.
- Thrashing-machine feeder. M. L. Heineke. No. 1,419,926; June 20.
- Thrashing machines, Cleaning attachment for. J. R. and E. C. McMillan. No. 1,415,666; May 9.
- Thrashing machines, Cylinder for. R. H. Owen. No. 1,424,933; Aug. 8.
- Thrashing machines Fan governor for. G. T. Strite. No. 1,406,427; Feb. 14.

- Thrashing machines, Feeder spreader for. J. C. Junkin. No. 1,406,395; Feb. 14.
- Thrashing machines, Feeding apparatus for. T. M. Park. No. 1,415,046; May 9.
- Thrashing machines, Grain cleaner attachment for. M. J. Doran. No. 1,431,294; Oct. 10.
- Thrashing machines, Grain-recovery attachment for. L. W. Bell. No. 1,412,333; Apr. 11.
- Thrashing machines, Self-feeder for. W. F. MacGregor and N. R. Krause. No. 1,418,724; June 6.
- Thrashing machines, Separating device for. A. W. White. No. 1,402,984; Jan. 10.
- Thrashing machines, Tailings thrasher for. J. C. Junkin. No. 1,406,394; Feb. 14.
- Thrashing mechanism, Standing-grain. G. Schaefer. No. 1,418,476; June 6.
- Thread and making same. J. G. Bentley. No. 1,412,446; Apr. 11.
- Thread cleaner. W. J. Klots. No. 1,422,106; July 11.
- Thread controller. G. S. Gatchell. No. 1,432,683; Oct. 17.
- Thread-controlling mechanism. A. H. De Voe. No. 1,416,697; May 23.
- Thread cutter. R. Becker. No. 1,422,407; July 11.
- Thread-cutting die. C. J. Pihl, now C. J. Piel. No. 1,416,059; May 16.
- Thread-cutting machine. J. Grauer. No. 1,404,386; Jan. 24.
- Thread-cutting tool. N. Benoit. No. 1,422,652; July 11.
- Thread-cutting tool. G. W. Dover. No. 1,413,326; Apr. 18.
- Thread-cutting tool. J. H. Zoerman. No. 1,426,441; Aug. 22.
- Thread-cutting tool and holder therefor. D. Breckenridge. No. 1,428,075; Sept. 5.
- Thread-fastening machine. F. N. La Chapelle. No. 1,404,775; Jan. 31.
- Thread guide. C. E. Frost. No. 1,438,479; Dec. 12.
- Threading and looping device. W. Wenderhold. No. 1,402,273; Jan. 3.
- Threading, Device for positioning loopers of sewing machines for. J. R. Moffatt and A. H. Simmons. No. 1,403,093; Jan. 10.
- Threading machine, Internal. H. Fulton. No. 1,435,959; Nov. 21.
- Threading machines, Cap-feeding device for. G. F. Anderson. No. 1,423,173; July 18.
- Thread millers, Clamping-tube for. P. W. Martin. No. 1,412,809; Apr. 11.
- Thread-milling hob and making. E. Buckingham. No. 1,407,837; Feb. 28.
- Thread-milling machine. C. H. Schurr and E. J. Lees. No. 1,432,626; Oct. 17.
- Thread-milling machine. C. H. Schurr and E. J. Lees. (Reissue.) No. 15,410; July 11.
- Thread-rolling die. R. M. Heames. No. 1,414,641; May 2.
- Thread splitting and cutting machine for embroidered fabrics. J. Blum. No. 1,408,856; Mar. 7.
- Thread-tapping machine, Automatic. F. H. Kind. No. 1,403,170; Jan. 10.
- Thread-waxing device. F. E. Bertrand. No. 1,437,127; Nov. 28.
- Threads from crude viscose by means of warm mineral acids, Manufacture of lustrous. E. Bronnert. No. 1,414,070; Apr. 25.
- Threads, Gear-like indicator of stripped. D. C. Klausmeyer. No. 1,415,005; May 2.
- Threads, Indicator of stripped. L. L. Schauer. No. 1,416,579; May 16.
- Threads, Lead gauge for. F. O. Hoagland. No. 1,434,699; Nov. 7.
- Threads, Machine for spinning, washing, and drying viscose. M. Denis. No. 1,408,350; Feb. 28.
- Threads, Machine for splicing. C. Lea. No. 1,408,705; Mar. 7.
- Threads, Machine for splicing up the ends of cotton, linen, and other. A. Bennett. No. 1,421,151; June 27.
- Threads or filaments, Manufacture of artificial. W. P. Dreaper. No. 1,418,136; May 30.
- Threads, etc., Producing lustrous. C. A. Huttinger. No. 1,425,654; Aug. 15.
- Three-position operating mechanism. O. S. Field. No. 1,421,769; July 4.
- Three-way clamp. C. Knittel and N. Kesslering. No. 1,402,621; Jan. 3.
- Threshing machine. A. Nelson. No. 1,408,770; Mar. 7.
- Throttle and horn control apparatus. G. S. Heath. No. 1,430,229; Sept. 26.
- Throttle-control mechanism. P. M. Payne. No. 1,429,528; Sept. 19.
- Throttle regulator. J. J. Case. No. 1,404,009; Jan. 17.
- Thrower, Serpentine. J. H. Scott. No. 1,436,408; Nov. 21.
- Thrust bearing. D. E. Jewellen. No. 1,422,585; July 11.
- Thrust bearing, Adjustable. C. A. Maris. No. 1,421,518; July 4.
- Thrust bearing and driving mechanism. Combined. C. F. Paul, Jr. No. 1,407,296; Feb. 21.
- Thrust joint. F. F. Kishline. No. 1,404,444; Jan. 24.
- Thumb and finger protector. A. E. Detwiler. No. 1,416,001; May 16.
- Thumb-sucking preventer. R. De Barr. No. 1,431,915; Oct. 10.
- Thymol, Manufacture of. F. Gunther. No. 1,412,937; Apr. 18.
- Thymol, Manufacture of synthetic. M. Phillips. No. 1,432,298; Oct. 17.
- Tickers or other instruments, Projector combined with printing mechanism of. R. D. Wyckoff. No. 1,424,228; Aug. 1.
- Ticket. C. A. Lick. No. 1,419,066; June 6.
- Ticket and identifying means, Combination. E. G. Pickering. No. 1,429,098; Sept. 12.
- Ticket carrier. H. Ruscher and O. S. Payzant. No. 1,409,785; Mar. 14.
- Ticket holder. H. and L. Hopp. No. 1,417,325; May 23.
- Ticket holder. J. F. Toobey. No. 1,416,909; May 23.
- Ticket holder and cutter. C. T. Raschick. No. 1,412,893; Apr. 18.
- Ticket holder and dispenser. F. Dudek. No. 1,429,277; Sept. 19.
- Ticket holder, Passenger-train. W. N. Criss. No. 1,404,192; Jan. 24.
- Ticket-issuing machine. R. H. Helsel. No. 1,435,062; Nov. 7.
- Ticket-issuing machine. R. H. Helsel. No. 1,435,231; Nov. 14.
- Ticket-issuing mechanism. F. Skerl. No. 1,435,185; Nov. 14.
- Ticket, Lunch counter. J. B. Larkin. No. 1,408,103; Feb. 28.
- Ticket, Marking. G. A. Wallin. No. 1,431,495; Oct. 10.
- Ticket or fare box. A. J. Tanner. No. 1,413,632; Apr. 25.
- Ticket or transfer coupon-issuing apparatus. R. H. Helsel. No. 1,436,764; Nov. 28.
- Ticket printing and issuing mechanism. F. Skerl. No. 1,435,184; Nov. 14.
- Ticket-printing device. N. Bongom. No. 1,401,955; Jan. 3.
- Ticket-printing mechanism. H. A. Martin. No. 1,404,212; Jan. 24.
- Ticket system and means therefor. A. J. Tanner. No. 1,413,631; Apr. 25.
- Ticket system and means therefor. A. J. Tanner. No. 1,413,634; Apr. 25.
- Ticketing machine. G. W. Henry, jr. No. 1,432,554; Oct. 17.
- Ticketing machines, Chase for. G. W. Henry, Jr. No. 1,403,321; Jan. 10.
- Tickets and the like, Holder for metal. H. S. Bassett and A. J. Tanner. No. 1,411,252; Apr. 4.
- Tickets and the like, Machine for printing and issuing. F. Phillips. No. 1,425,050; Aug. 8.
- Tickets, Device for the delivery of. C. R. Prosser. No. 1,419,075; June 6.
- Tie: See—
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| Bale tie. | Package tie. |
| Rat tie. | Rail tie. |
| Cattle tie. | Railway tie. |
| Concrete tie. | Wire bale tie. |
| Concrete railway tie. | Wire tie. |
| Metallic railway tie. | |
- Tie. F. W. Sakon. No. 1,413,433; Apr. 18.
- Tie adjuster and retainer. E. A. Slack. No. 1,428,454; Sept. 5.
- Tie and coat-sleeve press. J. Pedery. No. 1,433,907; Oct. 31.
- Tie and collar fastener, Combination. H. S. Smith. No. 1,413,692; Apr. 25.
- Tie and fastener, Combined. A. Lerner. No. 1,426,883; Aug. 22.
- Tiebar and spacer. J. P. Jackson. No. 1,436,345; Nov. 21.
- Tie carrier. A. W. Woodward. No. 1,429,667; Sept. 19.
- Tie clasp. H. L. Dorfman and M. Grossman. No. 1,433,345; Oct. 24.
- Tie device. A. S. Mathers. No. 1,423,133; July 18.
- Tie form. H. White, jr. No. 1,438,801; Dec. 12.
- Tie holder. I. Bernstein. No. 1,429,560; Sept. 19.
- Tie holder. W. H. Grainger. No. 1,422,849; July 18.
- Tie holder and fastener. P. F. Size. No. 1,403,453; Jan. 10.
- Tie holder and retainer. M. W. Reese. No. 1,409,027; Mar. 7.
- Tie holder, Invisible. G. E. and E. L. Potter. No. 1,413,131; Apr. 18.
- Tie plate. F. E. Abbott. Nos. 1,425,309-10; Aug. 8.
- Tie plate. E. E. Fox. No. 1,431,296; Oct. 10.
- Tie plate. F. D. Hayden. No. 1,411,626; Apr. 4.
- Tie plate. A. Morrison. No. 1,426,312; Aug. 15.
- Tie plate. A. Rea. No. 1,434,913; Nov. 7.
- Tie plate and rail anchor. Combined. I. Allison and W. J. Leighty. No. 1,431,769; Oct. 10.
- Tie plate and rail anchor. Combined. W. P. Ware. No. 1,408,319; Feb. 28.
- Tie puller. M. Uno. No. 1,431,710; Oct. 10.
- Tie rack and cover. E. O. Goldsmith. No. 1,424,564; Aug. 1.
- Tie retainer. W. J. Getsinger. No. 1,423,208; July 18.
- Tie-tamping machine. D. A. Robinson. Nos. 1,415,193-4; May 9.
- Tightener. J. T. Simpson. No. 1,423,162; July 18.
- Tile. L. J. D. Healy. No. 1,437,304; Nov. 28.
- Tile. B. P. Infantino. No. 1,423,117; July 18.
- Tile. L. F. Ramsey. No. 1,413,684; Apr. 25.
- Tile. S. A. Williams. No. 1,433,863; Oct. 31.
- Tile and wall made therefrom, Building. L. H. de Fernelmont. No. 1,409,284; Mar. 14.
- Tile, Antislipping. G. N. Jeppson. No. 1,402,296; Jan. 3.

Alphabetical list of inventions—Continued.

- Tile construction. E. Ceriat. No. 1,420,020; June 20.
 Tile, Corner and jamb. F. Heath. No. 1,403,953; Jan. 17.
 Tile cutters, Offbearing mechanism for. A. G. Hague. No. 1,411,492; Apr. 4.
 Tile, Desk. J. C. Hislop. No. 1,414,130; Apr. 25.
 Tile, Drain. F. Berardi. No. 1,413,380; Apr. 18.
 Tile, Drain. Captain P. Funk. No. 1,406,182; Feb. 14.
 Tile floor construction. A. O. Thomas. No. 1,439,651; Dec. 19.
 Tile for floor structures. J. H. Toupet. (Reissue.) No. 1,536,9; May 30.
 Tile for wall structures, Open hollow. M. Dochnal. No. 1,406,354; Feb. 14.
 Tile, Grooved-end hollow building. H. R. Straight. No. 1,411,532; Apr. 4.
 Tile, Hollow building. J. W. Ager. No. 1,414,246; Apr. 25.
 Tile, Interlocking. F. Dochnal. No. 1,425,181; Aug. 8.
 Tile, Interlocking. V. E. Taylor. No. 1,415,906; May 16.
 Tile, Load-supporting building. C. R. Birdsey. No. 1,428,623; Sept. 12.
 Tile, Machine for forming plastic. H. Brock. No. 1,418,227; May 30.
 Tile-making apparatus. J. B. Rosa. No. 1,433,417; Oct. 24.
 Tile, Making drain. C. P. Funk. No. 1,408,877; Mar. 7.
 Tile-molding machine. B. L. Bacot. No. 1,419,198; June 13.
 Tile press. C. A. Landback. No. 1,440,303; Dec. 26.
 Tile press. A. Mosblack. No. 1,438,776; Dec. 12.
 Tile, Roofing. O. A. Pedersen. No. 1,427,968; Sept. 5.
 Tile, Safety-tread. M. F. Beecher. No. 1,439,283; Dec. 19.
 Tile, Superlocking hollow. O. V., E. L., and E. C. Neese. No. 1,424,372; Aug. 1.
 Tiling block. J. T. Pratt. No. 1,432,567; Oct. 17.
 Tiles and pasting same to paper, Method of and machine for spacing. B. L. Benson. No. 1,404,567; Jan. 24.
 Tiles of furnaces, Means for supporting top and side. C. E. Davis. No. 1,402,482; Jan. 3.
 Till. R. J. Shrimpton. No. 1,411,067; Mar. 28.
 Tillage implement. H. S. Dickinson. No. 1,428,947; Sept. 12.
 Tilling implement. C. E. White. No. 1,432,143; Oct. 17.
 Tilting furnace. W. Dyrssen. No. 1,416,699; May 23.
 Tilting furnace. J. A. Gaskill. No. 1,439,409; Dec. 19.
 Timber-clamping device. F. L. Rogers. No. 1,437,019; Nov. 28.
 Timber, Means for barking. E. B. Whalley. No. 1,440,042; Dec. 26.
 Timber, Method of and apparatus for treating. A. Meyer and P. R. Walsh. No. 1,422,119; July 11.
 Timbers, Tension scarf for. W. T. Donnelly. No. 1,413,395; Apr. 18.
 Timbers together, Device for clamping. T. C. Schenk. No. 1,431,186; Oct. 10.
 Time and distance recording device. T. Barton. No. 1,404,683; Jan. 24.
 Time-controlled motor. F. Diehl. No. 1,411,712; Apr. 4.
 Time-controlled reminder apparatus. S. Toy. No. 1,416,910; May 23.
 Time-controlled switch. D. H. Tillery. No. 1,414,057; Apr. 25.
 Time-controlled symbol-displaying device. J. A. Demuth. No. 1,404,688; Jan. 24.
 Time-indicating apparatus. H. E. Warren. No. 1,409,502; Mar. 14.
 Time indicator. C. M. Crook. No. 1,430,437; Sept. 26.
 Time-limit apparatus. J. J. Kane. No. 1,418,803; June 6.
 Time meter. R. E. Bishop. No. 1,414,855; May 2.
 Timepiece, H. Colomb. No. 1,438,427; Dec. 12.
 Timepiece, Repeater. E. A. Marsh. No. 1,421,801; July 4.
 Timepieces, Balance staff for. W. H. H. Needy. No. 1,423,446; July 18.
 Time-pieces, Calendar attachment for. T. B. and E. W. Herth. No. 1,402,495; Jan. 3.
 Timepieces, Dial for. H. R. Lounsbery, Jr. No. 1,403,428; Jan. 10.
 Timepieces, Mainspring arbor for. E. H. Horn. No. 1,435,642; Nov. 14.
 Timepieces, Spring click for. E. H. Horn. No. 1,416,407; May 16.
 Time recorder. J. W. Bryce. No. 1,412,839; Apr. 18.
 Time recorder. C. Krum. No. 1,423,805; July 25.
 Time recorder. C. E. Larrabee. No. 1,403,040; Jan. 10.
 Time recorder. G. W. Odell. No. 1,421,824; July 4.
 Time recorder. G. Pullman. No. 1,422,477; July 11.
 Time recorder with movable card holder. C. E. J. Nilson. No. 1,434,311; Oct. 31.
 Time-recording register. H. B. McCabe. No. 1,403,044; Jan. 10.
 Time-registering apparatus, Employee's. F. B. Schenstone. No. 1,432,627; Oct. 17.
 Time switch. E. W. Denman. No. 1,433,704; Oct. 31.
 Time tables, Device for holding engineers'. V. W. Duff. No. 1,423,920; July 25.
 Timer. J. A. Anderson. No. 1,420,012; June 20.
 Timer. A. S. Goldstein. No. 1,419,042; June 6.
 Timer. D. S. Haynes. No. 1,416,638; May 16.
 Timer. J. A. Holm. No. 1,427,594; Aug. 29.
 Timer. J. A. Jessin. No. 1,403,554; Jan. 17.
 Timer. A. A. Jones. No. 1,410,317; Mar. 21.
 Timer. A. W. Kaufman. No. 1,411,787; Apr. 4.
 Timer. A. W. Kaufman. No. 1,425,864; Aug. 15.
 Timer. E. J. Lee. No. 1,425,990; Aug. 15.
 Timer. P. A. Oshanyk. No. 1,409,062; Mar. 7.
 Timer. A. Pajalic. No. 1,434,747; Nov. 7.
 Timer casing. A. W. caps. No. 1,410,649; Mar. 28.
 Timer cover. J. Majempsey. No. 1,425,403; Aug. 8.
 Timer display and demonstrating stand. J. W. Anderson. No. 1,411,768; Apr. 4.
 Timer mechanism. E. W. Turner. No. 1,417,361; May 23.
 Timer-securing device. A. A. Finney. No. 1,436,799; Nov. 28.
 Timer-supporting bracket. E. Smith. No. 1,405,724; Feb. 7.
 Timing and ignition system. W. P. Brewster. No. 1,439,537; Dec. 19.
 Timing device. J. M. Torrence. No. 1,413,202; Apr. 18.
 Timing device. H. E. Warren. No. 1,408,050; Feb. 28.
 Timing mechanism. W. E. Schwarzmann. No. 1,418,175; May 30.
 Timing mechanism. W. J. Wray. No. 1,405,961; Feb. 7.
 Timers, Contact brush for. H. T. Haskins. No. 1,425,200; Aug. 8.
 Timers, Spring brush for. A. Gerosa. No. 1,419,039; June 6.
 Tin, Bake. E. F. Anholzer. No. 1,406,522; Feb. 14.
 Tin-cutting device. E. Schmitz. No. 1,402,019; Jan. 3.
 Tin deposits, Producing dense and firmly-adhering. M. Schlötter. No. 1,426,678; Aug. 22.
 Tin from tin-plate chip, Extracting. C. Clerc. No. 1,413,555; Apr. 18.
 Tin, Metallurgy of. W. M. Johnson. No. 1,436,961; Nov. 28.
 Tin mills, Machine for separating stickers on the opening floors of. J. C. Timberlake. No. 1,427,177; Aug. 29.
 Tin-plate-cleaning machine. W. L. McKean. No. 1,414,365; May 2.
 Tinplates and other metal-coated plates or sheets, Machinery or apparatus to be used in the manufacture of. H. S. Thomas and W. R. Davies. No. 1,432,578; Oct. 17.
 Tin plates, Manufacturing. T. Evans. No. 1,414,347; May 2.
 Tin pot. J. W. Free. No. 1,415,166; May 9.
 Tin purification. J. J. Collins. No. 1,414,257; Apr. 25.
 Tin purification. J. J. Collins. No. 1,414,259; Apr. 25.
 Tin, Recovering. H. H. Alexander. No. 1,426,341; Aug. 22.
 Tin-sticker machine. J. Carafilidis. No. 1,410,458; Mar. 21.
 Tin winning. J. J. Collins. No. 1,414,258; Apr. 25.
 Tinned articles, Brightening and hardening electrolytically-. L. Schulte. No. 1,415,198; May 9.
 Tinning apparatus. J. E. Schleper. No. 1,427,858; Sept. 5.
 Tinning machines, Brush holder for. R. E. Zimmerman. No. 1,431,913; Oct. 10.
 Tinning machines, Feeding mechanism for. D. Buccicone. No. 1,422,535; July 11.
 Tinning of sheet metal. O. Glässer. No. 1,431,223; Oct. 10.
 Tins, cans, and the like, Apparatus for applying lids to. V. C. H. Elgy. No. 1,439,620; Dec. 19.
 Tins, Cover for hermetically-sealed. F. J. Snook. No. 1,418,029; May 30.
 Tins or the like, Apparatus for sorting out and delivering bodies or lids of. V. C. H. Elgy. No. 1,425,374; Aug. 8.
 Tins used for preserving food, Opening device for. E. Gasset. No. 1,412,175; Apr. 11.
 Tipping hand tool. J. W. Parks. No. 1,418,394; June 6.
 Tire. L. T. Bailey. No. 1,405,888; Feb. 7.
 Tire. W. Beane. No. 1,412,601; Apr. 11.
 Tire. F. E. Bessler. Nos. 1,414,543-4; May 2.
 Tire. H. H. Boren. No. 1,411,155; Mar. 28.
 Tire. C. J. Carlson. No. 1,409,151; Mar. 14.
 Tire. M. Charles. No. 1,406,151; Feb. 7.
 Tire. G. A. Feldkamp. No. 1,413,714; Apr. 25.
 Tire. M. B. Flaherty. No. 1,406,630; Feb. 14.
 Tire. W. G. Fording. (Reissue.) No. 15,405; July 11.
 Tire. J. A. Gerome. No. 1,412,682; Apr. 11.
 Tire. W. R. Halfpenny. No. 1,422,851; July 18.
 Tire. J. Hobson and E. E. Gilbert. No. 1,412,744; Apr. 11.
 Tire. G. Jacobs. No. 1,424,360; Aug. 1.
 Tire. O. Johnson and C. Neuman. No. 1,424,824; Aug. 8.
 Tire. W. S. Johnston. No. 1,410,475; Mar. 21.
 Tire. E. E. Julian. No. 1,433,625; Oct. 31.
 Tire. J. Kruttschnitt. No. 1,433,557; Oct. 31.
 Tire. V. Kubelka. No. 1,429,209; Sept. 12.
 Tire. O. A. Lane. No. 1,404,459; Jan. 24.
 Tire. H. Lobel. No. 1,423,232; July 18.
 Tire. V. Lopardo. No. 1,435,718; Nov. 14.
 Tire. F. L. Marshall. No. 1,425,668; Aug. 15.
 Tire. C. J. Matt. No. 1,411,447; Apr. 4.
 Tire. R. N. McClure. No. 1,436,594; Nov. 21.
 Tire. M. P. Mitchell. No. 1,410,704; Mar. 28.
 Tire. L. O. Mitchell. No. 1,430,100; Sept. 26.
 Tire. D. S. Myers. No. 1,402,947; Jan. 10.
 Tire. V. Nave. No. 1,427,622; Aug. 29.
 Tire. M. O'Bannon. No. 1,426,763; Aug. 22.
 Tire. T. T. Overshiner. No. 1,413,291; Apr. 18.
 Tire. J. H. Perry. No. 1,413,872; Apr. 25.
 Tire. J. R. Place. No. 1,409,771; Mar. 14.
 Tire. G. Reider. No. 1,411,516; Apr. 4.
 Tire. J. H. Ryder. No. 1,424,855; Aug. 8.
 Tire. F. J. Schrank. No. 1,411,671; Apr. 4.

Alphabetical list of inventions—Continued.

- Tire. D. L. Stouch. No. 1,422,899; July 18.
 Tire. H. H. Swan. No. 1,428,817; Sept. 12.
 Tire. G. Velting, sr., and G. Velting, jr. No. 1,431,345; Oct. 10.
 Tire. M. A. Volf. No. 1,421,323; June 27.
 Tire. C. A. Wagner. No. 1,424,223; Aug. 1.
 Tire. J. B. Wallace. No. 1,409,263; Mar. 14.
 Tire. J. J. P. Walsh. No. 1,423,549; July 25.
 Tire, Airless. C. H. Braden. No. 1,423,074; July 18.
 Tire, Airless. C. H. Braden. No. 1,436,146; Nov. 21.
 Tire, Airless vehicle. R. N. McClure. No. 1,438,604; Dec. 12.
 Tire alarm and gauge. W. A. Harris. No. 1,411,917; Apr. 4.
 Tire alarm and gauge. W. A. Harris. No. 1,413,531; Apr. 18.
 Tire and its attachment to wheels, Rubber. E. B. Killen. No. 1,435,531; Nov. 14.
 Tire and its manufacture, Pneumatic. W. C. Martin. No. 1,412,535; Apr. 11.
 Tire and making same. G. D. Kratz. No. 1,428,040; Sept. 5.
 Tire and puncture-proof protector therefor. E. Ehlich. No. 1,420,979; June 27.
 Tire and rim carrier. A. N. Audet. No. 1,412,645; Apr. 11.
 Tire and rim, Combination. C. O. Lambrent. No. 1,423,435; July 18.
 Tire and rim for vehicles. H. F. Schnell. No. 1,437,154; Nov. 28.
 Tire and rim lock, Automobile. J. Zahler. No. 1,419,796; June 13.
 Tire and rim manipulating appliance. A. F. Beck. No. 1,402,471; Jan. 3.
 Tire and rim therefor, Cushion. U. Anderson. No. 1,421,755; July 4.
 Tire and wheel, Combination. M. Golein. No. 1,403,115; Jan. 10.
 Tire and wheel rim to be used therewith. F. Reddaway and G. J. Rackham. No. 1,408,399; Feb. 28.
 Tire armor. C. Lowry. No. 1,412,695; Apr. 11.
 Tire armor. J. Plum. No. 1,404,642; Jan. 24.
 Tire armor. D. C. Poynter. No. 1,405,327; Jan. 31.
 Tire armor. W. G. Stockham. No. 1,417,359; May 23.
 Tire armor. A. Weisberg. No. 1,439,590; Dec. 19.
 Tire, Armored. J. Trost. No. 1,434,571; Nov. 7.
 Tire attachment. S. J. Moss. No. 1,419,885; June 13.
 Tire, Auto. L. R. Quade. No. 1,413,777; Apr. 25.
 Tire, Automobile. M. S. Corbett. No. 1,430,436; Sept. 26.
 Tire, Automobile. F. J. Leisse. No. 1,422,723; July 11.
 Tire, Automobile and motor-cycle. G. W. Ray. No. 1,416,873; May 23.
 Tire-bead-building machine. H. D. Stevens. No. 1,436,612; Nov. 21.
 Tire bead, Method of and apparatus for forming a. W. G. Fording. No. 1,423,929; July 25.
 Tire beads, Apparatus for making. W. B. Harsel. No. 1,406,855; Feb. 14.
 Tire beads, Apparatus for solutioning. T. A. Burns. No. 1,422,083; July 11.
 Tire beads, Grommet or core for. A. C. Pratt. No. 1,437,013; Nov. 28.
 Tire, Bicycle. J. Muszynski. No. 1,431,323; Oct. 10.
 Tire boot. L. E. Mills. No. 1,433,657; Dec. 12.
 Tire boot. E. M. Steell. No. 1,407,305; Feb. 21.
 Tire boot. O. C. Thomley. No. 1,402,808; Jan. 10.
 Tire-boot clamp. A. T. Moore. No. 1,414,969; May 2.
 Tire-building apparatus. C. M. Sloman. No. 1,415,724; May 9.
 Tire carrier. E. H. Belden. No. 1,404,003; Jan. 17.
 Tire carrier. J. B. Collins. No. 1,419,958; June 20.
 Tire carrier. J. Galamb. No. 1,415,870; May 16.
 Tire carrier. H. R. Gerrie. No. 1,419,965; June 20.
 Tire carrier. E. J. Nottingham. No. 1,412,703; Apr. 11.
 Tire carrier. E. W. Seaborn and G. E. Parker. No. 1,419,080; June 6.
 Tire carrier. H. O. Sollee. No. 1,412,425; Apr. 11.
 Tire carrier. G. W. Stewart. No. 1,424,601; Aug. 1.
 Tire carrier. H. B. Tuttle. No. 1,423,699; July 25.
 Tire carrier. C. F. Weber. No. 1,404,815; Jan. 31.
 Tire carrier and casing, Combined. J. R. Brownell. No. 1,426,455; Aug. 22.
 Tire carrier and lock. W. H. Rickard and L. G. Walker. No. 1,407,580; Feb. 21.
 Tire carrier and tool box, Combination. E. Johnson. No. 1,419,456; June 13.
 Tire-carrier-locking device. H. G. Voight. No. 1,420,226; June 20.
 Tire carrier, Spare-. W. F. Behling. No. 1,410,448; Mar. 21.
 Tire carrier, Spare-. A. D. Crossley. No. 1,422,932; July 18.
 Tire carrier, Spare-. G. H. Forsyth. No. 1,422,094; July 11.
 Tire carrier, Universal. W. R. Green. No. 1,403,158; Jan. 10.
 Tire carriers, Attachment for. E. S. Miner. No. 1,411,742; Apr. 4.
 Tire carriers, Attachment for. W. R. Green. No. 1,428,027; Sept. 5.
 Tire casing. D. Moriarty. No. 1,422,290; July 11.
 Tire casing and supporting means therefor. J. P. Coe. No. 1,418,623; June 6.
 Tire-casing filler. W. M. McEwen. No. 1,414,478; May 2.
 Tire casing, Pneumatic-. J. I. Freeman and L. J. Peterson. No. 1,407,401; Feb. 21.
 Tire casing, Pneumatic-. N. W. McLeod. No. 1,423,771; July 25.
 Tire-casing-vulcanizing mold. R. H. Atcheson. No. 1,406,433; Feb. 14.
 Tire casings, Attaching retreads to worn. W. E. Shawger. No. 1,409,418; Mar. 14.
 Tire casings, Device for removing cores from. T. Midgley. No. 1,438,930; Dec. 12.
 Tire casings, Forming. J. P. King. No. 1,407,159; Feb. 21.
 Tire casings, Making. F. B. Converse. No. 1,420,623; June 27.
 Tire casings, Manufacture of pneumatic. J. V. Worthington. No. 1,419,907; June 13.
 Tire casings, Method and apparatus for making. J. L. Butler. No. 1,428,752; Sept. 12.
 Tire casings, Vulcanizing mold for. J. R. Gammeter. No. 1,417,509; May 30.
 Tire chain. R. J. Cochran. No. 1,432,534; Oct. 17.
 Tire chain. F. T. Gause. No. 1,434,111; Oct. 31.
 Tire chain. S. Goddard. No. 1,418,373; June 6.
 Tire chain. E. S. and R. C. Hogshead. No. 1,409,296; Mar. 14.
 Tire chain. J. Johnston. No. 1,439,553; Dec. 19.
 Tire chain. T. B. Miller and R. A. Paxton. No. 1,432,484; Oct. 17.
 Tire chain. V. T. Palmer. No. 1,410,715; Mar. 28.
 Tire chain. L. G. Stukenborg. No. 1,423,470; July 18.
 Tire chain. M. Wenzowitz. No. 1,414,848; May 2.
 Tire-chain-attaching device. C. W. Snodgrass. No. 1,437,158; Nov. 28.
 Tire-chain-attachment device. C. Flugel. No. 1,426,268; Aug. 15.
 Tire chain, Automobile. R. Golphin. No. 1,412,859; Apr. 18.
 Tire-chain connector. E. E. Grimes. No. 1,412,936; Apr. 18.
 Tire-chain connector. D. H. and A. S. Groves. No. 1,432,548; Oct. 17.
 Tire chain connector. H. P. Kennihan. No. 1,436,505; Nov. 21.
 Tire-chain device, Antiskid. J. Helsel. No. 1,404,856; Jan. 31.
 Tire-chain fastener. J. Gray. No. 1,419,043; June 6.
 Tire-chain fastener. E. S. and R. C. Hogshead. No. 1,414,467; May 2.
 Tire-chain fastener. J. W. Hubble. No. 1,418,149; May 30.
 Tire-chain fastener. C. L. Knowles. No. 1,419,060; June 6.
 Tire-chain fastener. J. J. Penhallegon. No. 1,407,438; Feb. 21.
 Tire-chain fastener. B. Sandberg. No. 1,426,510; Aug. 22.
 Tire-chain fastener. J. L. Stone. No. 1,403,877; Jan. 17.
 Tire-chain holder. G. Staples. No. 1,420,777; June 27.
 Tire-chain hook. J. L. Schindler. No. 1,420,949; June 27.
 Tire-chain hook, Automobile. H. Schuchman. No. 1,421,577; July 4.
 Tire-chain link. M. J. Frambach. No. 1,439,303; Dec. 19.
 Tire-chain retainer. G. J. La Vigne. No. 1,421,966; July 4.
 Tire-chain tightener. M. H. Merchant. No. 1,404,213; Jan. 24.
 Tire-chain tightener and lock. C. F. and A. I. Johnson. No. 1,407,753; Feb. 28.
 Tire-chain tightening and releasing tool. B. F. Geiger. No. 1,411,884; Apr. 4.
 Tire-chain tool. P. J. Shough. No. 1,435,881; Nov. 14.
 Tire chains, Antiskidding attachment for. J. Simon. No. 1,407,227; Feb. 21.
 Tire chains, Hook for antiskid. V. C. Kloepper. No. 1,406,461; Feb. 14.
 Tire chains, Locking device for automobile. J. M. Long and A. U. and C. A. Bryant. No. 1,409,014; Mar. 7.
 Tire chains, Repair link for. E. F. Slattery. No. 1,438,560; Dec. 12.
 Tire changer and carrier. A. J. West. No. 1,429,817; Sept. 19.
 Tire-changing device. W. L. Bucksen. No. 1,408,928; Mar. 7.
 Tire changing device, Pneumatic truck. G. C. Brown. No. 1,415,865; May 16.
 Tire-changing machine. J. V. Clark. No. 1,432,967; Oct. 24.
 Tire, Combined cushion and pneumatic. N. W. Finch. No. 1,427,897; Sept. 5.
 Tire, Combined pneumatic and solid. F. W. Kremer. No. 1,407,070; Feb. 21.
 Tire construction. P. P. Grosso. No. 1,411,915; Apr. 4.
 Tire construction. F. D. Mayer. No. 1,425,788; Aug. 15.
 Tire construction. L. Turan. No. 1,438,070; Dec. 5.
 Tire construction. G. R. Williams. No. 1,421,115; June 27.
 Tire construction, Demountable solid. F. McFadden. No. 1,411,922; Apr. 4.
 Tire, Cord. C. L. Archer. No. 1,437,125; Nov. 28.
 Tire cord and making same. J. A. Swinehart. No. 1,437,870; Dec. 5.
 Tire core. E. Wright. No. 1,415,755; May 9.
 Tire core, Collapsible. H. A. Denmire. No. 1,421,418; July 4.

Alphabetical list of inventions—Continued.

- Tire core, Collapsible. A. H. Harris. No. 1,426,865; Aug. 22.
- Tire core, Collapsible. C. L. Smith and E. S. Webster. No. 1,434,567; Nov. 7.
- Tire-core-stripping machine. C. Kuentzel. (Reissue.) No. 15,284; Feb. 14.
- Tire cores, Cement shield for. R. J. Humelbau. No. 1,424,199; Aug. 1.
- Tire cover. M. Bitschkus. No. 1,437,791; Dec. 5.
- Tire cover. F. T. Bohan. No. 1,428,580; Sept. 12.
- Tire cover and the like. A. E. Wale. No. 1,415,281; May 9.
- Tire covering, Pneumatic. E. H. Simonton. No. 1,414,050; Apr. 25.
- Tire covers, stair treads, or the like, Construction of wear-resisting and nonslipping surfaces, such as. W. P. Whitehouse. No. 1,426,800; Aug. 22.
- Tire, Cushion. G. W. Bell. No. 1,414,325; Apr. 25.
- Tire, Cushion. W. A. Brubaker. No. 1,414,252; Apr. 25.
- Tire, Cushion. L. Cartier. No. 1,403,289; Jan. 10.
- Tire, Cushion. J. R. Gammeter. No. 1,410,669; Mar. 28.
- Tire, Cushion. J. Hadely. No. 1,406,016; Feb. 7.
- Tire, Cushion. A. A. Robb. No. 1,433,301; Oct. 24.
- Tire, Cushion. C. O. Snedeker. No. 1,421,106; June 27.
- Tire, Cushion. B. C. Swinehart. No. 1,402,190; Jan. 3.
- Tire, Cushion. W. D. Teller. No. 1,428,719; Sept. 12.
- Tire-cutting machine, Pneumatic. B. E. Maxwell. No. 1,412,951; Apr. 18.
- Tire-deflating machine. H. P. Kraft. No. 1,405,230; Jan. 31.
- Tire-deflating machine. H. P. Kraft. No. 1,408,099; Feb. 28.
- Tire-deflating machine. M. C. Schweinert. No. 1,438,464; Dec. 12.
- Tire-deflation signal. F. D. Harman. No. 1,410,297; Mar. 21.
- Tire-deflation signal, Pneumatic. F. H. Brunig. No. 1,411,705; Apr. 4.
- Tire device, Antitheft spare. R. W. Johnson. No. 1,434,492; Nov. 7.
- Tire-display fixture. R. L. Christy. No. 1,439,147; Dec. 19.
- Tire, Elastic wheel. L. Stoll. No. 1,436,366; Nov. 21.
- Tire, Emergency. A. J. Daniel. No. 1,410,460; Mar. 21.
- Tire, Emergency. P. N. Schorr. No. 1,428,452; Sept. 5.
- Tire, Emergency automobile. W. T. and W. W. King. No. 1,432,398; Oct. 11.
- Tire fabric, Making rubberized. F. A. Krusemark. No. 1,422,451; July 11.
- Tire fabrics, Loom for weaving cord. F. C. Hall. No. 1,421,081; June 27.
- Tire fastener, Sectional. J. A. Carroll. No. 1,431,097; Oct. 3.
- Tire, Fibrillous. H. N. Wayne. No. 1,428,571; Sept. 12.
- Tire filler, Resilient. W. Collins. No. 1,402,212; Jan. 3.
- Tire filler, Soft-rubber. M. W. Needham. No. 1,421,537; July 4.
- Tire flap. J. R. Gammeter. No. 1,416,187; May 16.
- Tire flaps, Mold for heavy-truck. A. O. Abbott, Jr. No. 1,420,803; June 27.
- Tire for automobiles and other vehicles, Resilient. W. L. von Edelkrantz. No. 1,413,078; Apr. 18.
- Tire for vehicle wheels. M. L. Schlueter. No. 1,439,485; Dec. 19.
- Tire for vehicle wheels, Resilient. C. Berne. No. 1,410,359; Mar. 21.
- Tire for vehicles. A. J. Kloneck. No. 1,427,302; Aug. 29.
- Tire for vehicles, Metal-sheathed pneumatic. G. F. Schriber. No. 1,422,791; July 11.
- Tire for wheels, Resilient. W. R. H., and W. Reid, Jr. No. 1,404,059; Jan. 17.
- Tire-forming core. K. O. B. Textorius. No. 1,408,044; Feb. 28.
- Tire gauge. C. O. Evenson. No. 1,437,504; Dec. 5.
- Tire gauge. J. I. Glickerman. No. 1,416,814; May 23.
- Tire gauge. I. Pulverman. No. 1,405,436; Feb. 7.
- Tire gauge and engine compression gauge, Combined. H. A. Walker. No. 1,438,798; Dec. 12.
- Tire gauge and filling valve, Combined. A. A. Freeman. No. 1,420,997; June 27.
- Tire grip and tightener therefor, Chain. H. W. Loder. No. 1,416,300; May 16.
- Tire-grip chain. R. E. Benson. No. 1,414,396; May 2.
- Tire grip, Nonskid. N. J. Lindstrom. No. 1,417,186; May 23.
- Tire-grip tightener, Chain. H. W. Loder. No. 1,404,307; Jan. 24.
- Tire guard. C. C. Klopfenstein. No. 1,409,899; Mar. 14.
- Tire-healing composition. G. Altstädter. No. 1,434,764; Nov. 7.
- Tire holder. B. Frank. No. 1,417,817; May 30.
- Tire holder. A. L. Stewart and R. W. Powell. No. 1,406,296; Feb. 14.
- Tire holder and extricator, Combination. W. H. Russell. No. 1,402,447; Jan. 3.
- Tire holder, Spare. J. Merz. No. 1,417,678; May 30.
- Tire holders, Locking attachment for spare. W. Wilson and S. Price. No. 1,430,137; Sept. 26.
- Tire in relation to a rim or wheel, Method of and means for assembling a pneumatic or elastic. H. W. van Meeteren. No. 1,432,311; Oct. 17.
- Tire indicator, Flat. T. M. Eynon. No. 1,415,820; May 9.
- Tire-inflating device. A. A. Ewald. No. 1,414,559; May 2.
- Tire-inflating device. F. Zemla. No. 1,438,284; Dec. 12.
- Tire-inflation valve. D. G. Clifford. No. 1,403,484; Jan. 17.
- Tire liner. C. F. Hicks. No. 1,423,423; July 18.
- Tire lock. W. T. Campbell. (Reissue.) No. 15,365; May 30.
- Tire lock. W. T. Campbell. (Reissue.) No. 15,380; June 13.
- Tire lock. H. G. Levy. (Reissue.) No. 15,282; Feb. 7.
- Tire lock, Automobile. P. F. Augenbraun. No. 1,412,646; Apr. 11.
- Tire lock for locomotive wheels. I. E. Corwin. No. 1,430,215; Sept. 26.
- Tire lock, Spare. H. A. Weaver. No. 1,430,707; Oct. 3.
- Tire-making fabrics, Machine for cutting and feeding. B. De Mattia. No. 1,428,420; Sept. 5.
- Tire-making machine. H. M. Brown. No. 1,438,156; Dec. 5.
- Tire-making machine. C. L. Landon. No. 1,419,064; June 6.
- Tire-making machine. F. C. Morton. No. 1,423,870; July 25.
- Tire-making machine. A. Shaw and W. K. Glennon. No. 1,409,792; Mar. 14.
- Tire-making machine, Pneumatic. F. A. Schultz. No. 1,411,588; Apr. 4.
- Tire-making method and apparatus. C. G. Hoover. No. 1,435,895; Nov. 14.
- Tire, Metallic vehicle. J. S. Paul. No. 1,435,871; Nov. 14.
- Tire mold. M. T. Barney. No. 1,429,831; Sept. 19.
- Tire mold. M. Greenspan. No. 1,404,847; Jan. 31.
- Tire mold. R. Heller. No. 1,415,557; May 9.
- Tire mold. M. A. Marquette. No. 1,419,577; June 13.
- Tire mold. J. S. McClurg. No. 1,437,433; Dec. 5.
- Tire mold. H. Rafovich. No. 1,425,693; Aug. 15.
- Tire mold. H. Rafovich. No. 1,432,901; Oct. 24.
- Tire molds, Vulcanizing and core for. V. K. Sturges. No. 1,407,355; Feb. 21.
- Tire mounting or dismounting machine. G. D. Banta. No. 1,437,085; Nov. 28.
- Tire-mounting rim. W. B. Lucas. No. 1,429,515; Sept. 19.
- Tire, Nonpuncturable. G. A. Weber. Nos. 1,423,976-7; July 25.
- Tire, Nonskid. C. H. Jones and C. Schulz. No. 1,412,006; Apr. 4.
- Tire or tractor belt. M. L. Schlueter. No. 1,439,484; Dec. 19.
- Tire, Oversized plural truck. C. J. Dalton. No. 1,405,972; Feb. 7.
- Tire, Oversized truck. C. J. Dalton. No. 1,405,973; Feb. 7.
- Tire patch. J. S. Fritz. No. 1,419,453; June 13.
- Tire patch. C. V. Hall. No. 1,433,006; Oct. 24.
- Tire patch. H. W. Jordan. No. 1,403,691; Jan. 17.
- Tire patch. L. L. Williams. No. 1,425,925; Aug. 15.
- Tire patch or the like. R. A. Spink. No. 1,409,601; Mar. 14.
- Tire plug. D. Cohen. No. 1,411,411; Apr. 4.
- Tire-ply turn-up and prodder device. A. D. Kilgore. No. 1,420,930; June 27.
- Tire, Pneumatic. E. M. Beckman. No. 1,415,140; May 9.
- Tire, Pneumatic. G. E. Caylor. No. 1,404,685; Jan. 24.
- Tire, Pneumatic. V. Dirienzo. No. 1,420,081; June 20.
- Tire, Pneumatic. C. H. Hamilton. No. 1,419,045; June 6.
- Tire, Pneumatic. C. G. Hawley. No. 1,433,008; Oct. 24.
- Tire, Pneumatic. J. G. A. Kitchen. No. 1,430,236; Sept. 26.
- Tire, Pneumatic. P. T. Lehr. No. 1,404,532; Jan. 24.
- Tire, Pneumatic. H. Lobel. No. 1,434,661; Nov. 7.
- Tire, Pneumatic. W. McEwen. No. 1,422,113; July 11.
- Tire, Pneumatic. A. J. Michelin. No. 1,432,483; Oct. 17.
- Tire, Pneumatic. W. W. Moore. No. 1,415,604; May 9.
- Tire, Pneumatic. T. Naus. No. 1,436,720; Nov. 28.
- Tire, Pneumatic. R. Osgood. No. 1,431,540; Oct. 10.
- Tire, Pneumatic. F. B. Pfeiffer. No. 1,426,005; Aug. 15.
- Tire, Pneumatic. I. A. Reasoner and D. J. Flintjer. No. 1,419,470; June 13.
- Tire, Pneumatic. J. G. Sawicki. No. 1,413,619; Apr. 25.
- Tire, Pneumatic. B. C. Seaton. No. 1,412,492; Apr. 11.
- Tire, Pneumatic. W. B. Shaw. No. 1,436,782; Nov. 28.
- Tire, Pneumatic. G. E. and C. A. Stuart. No. 1,423,277; July 18.
- Tire, Pneumatic. E. J. Turek. No. 1,425,812; Aug. 15.
- Tire, Pneumatic. C. L. Vanderley and C. J. Jorgensen. No. 1,435,566; Nov. 14.
- Tire, Pneumatic. N. G. Warth. No. 1,428,726; Sept. 12.
- Tire, Pneumatic punctureproof single-tube. D. and G. Patchin. No. 1,409,762; Mar. 14.
- Tire, Pneumatic vehicle. H. S. Blynt. No. 1,416,252; May 16.
- Tire, Pneumatic vehicle. H. S. Blynt. No. 1,438,015; Dec. 5.
- Tire, Pneumatic vehicle. J. Bobek. No. 1,416,253; May 16.
- Tire-pressure gauge. W. A. Allen and C. C. Abbe. No. 1,402,729; Jan. 10.
- Tire-pressure-gauge connection. O. H. Hansen. No. 1,428,502; Sept. 5.
- Tire-pressure gauges, Means for supporting and operating. E. J. Horne. No. 1,427,389; Aug. 29.
- Tire-pressure meter. A. A. Anderson. No. 1,427,146; Aug. 29.
- Tire-protecting shoe. J. S. Au Buchon. No. 1,406,962; Feb. 21.
- Tire protector. L. E. Albott. No. 1,406,803; Feb. 14.

- Tire protector. M. T. Bransfield. No. 1,435,448; Nov. 14.
 Tire protector. H. J. Cohrs. No. 1,429,212; Sept. 12.
 Tire protector. P. M. Crain and J. P. Smith. No. 1,415,803; May 9.
 Tire protector. P. Echter. No. 1,414,632; May 2.
 Tire protector. W. L. Hinger. No. 1,436,713; Nov. 28.
 Tire protector. E. A. Hitch. No. 1,426,191; Aug. 15.
 Tire protector. E. P. Le Compte. No. 1,410,484; Mar. 21.
 Tire protector. C. P. McWane. No. 1,406,202; Feb. 14.
 Tire protector. J. J. Rouse. No. 1,409,031; Mar. 7.
 Tire protector. H. H. Shannon. No. 1,423,036; July 18.
 Tire protector. H. H. Shannon. No. 1,435,086; Nov. 7.
 Tire protector. G. W. Somerville. No. 1,423,692; July 25.
 Tire protector. G. Valiquette. No. 1,425,299; Aug. 8.
 Tire protector, Pneumatic. P. Lome. No. 1,417,755; May 30.
 Tire protector, Pneumatic. A. G. Schroeter. No. 1,408,832; Mar. 7.
 Tire protector, Pneumatic. C. Taylor. No. 1,420,392; June 20.
 Tire pump. J. L. Davies. No. 1,417,805; May 30.
 Tire pump. J. H. McConnell. No. 1,432,196; Oct. 17.
 Tire pump. M. H. Moses. No. 1,425,126; Aug. 8.
 Tire pump. T. Namura. No. 1,430,250; Sept. 26.
 Tire pump, Automobile. C. G. Sunden. No. 1,420,587; June 20.
 Tire pump, Truck. G. J. Spohrer. No. 1,415,725; May 9.
 Tire pumps, Collapsible handle for. F. A. Cuff. No. 1,432,054; Oct. 17.
 Tire, Punctureproof. E. J. Moran. No. 1,416,049; May 16.
 Tire, Punctureproof. D. E. Patton. No. 1,409,021; Mar. 7.
 Tire, Punctureproof. J. M. Ward. No. 1,431,069; Oct. 3.
 Tire, Punctureproof pneumatic. P. S. Kotarski. No. 1,409,382; Mar. 14.
 Tire rack. J. E. Elgin. No. 1,410,740; Mar. 28.
 Tire rack. F. K. Lawrence. No. 1,405,378; Jan. 31.
 Tire rack. W. N. Vance. No. 1,438,729; Dec. 12.
 Tire rack and changer, Combination. F. Booth. No. 1,418,279; June 6.
 Tire-regrooving machine, Solid. A. Hargraves. No. 1,404,118; Jan. 17.
 Tire remover. J. Schwab. No. 1,435,624; Nov. 14.
 Tire remover and replacer, Clincher. F. E. Wafer. No. 1,414,908; May 2.
 Tire repair. E. M. Moore and O. V. Peet. No. 1,426,897; Aug. 22.
 Tire-repair material. H. B. Pushee. No. 1,403,058; Jan. 10.
 Tire-repair tool. C. E. McNemar. No. 1,410,819; Mar. 28.
 Tire-repair tool. A. R. Wert. No. 1,439,774; Dec. 26.
 Tire, Resilient. J. M. Abrams. No. 1,401,948; Jan. 3.
 Tire, Resilient. E. Baumann. No. 1,424,231; Aug. 1.
 Tire, Resilient. R. Curry. No. 1,421,917; July 4.
 Tire, Resilient. D. A. Garden. No. 1,424,468; Aug. 1.
 Tires, Resilient. A. E. Gladu. No. 1,404,111; Jan. 17.
 Tire, Resilient. M. Harloe. No. 1,404,391; Jan. 24.
 Tire, Resilient. E. P. Henderson. No. 1,434,118; Oct. 31.
 Tire, Resilient. H. A. Hille. No. 1,402,359; Jan. 3.
 Tire, Resilient. C. Jørgensen and G. A. Dunmore. No. 1,403,085; Jan. 10.
 Tire, Resilient. C. H. Lambert. No. 1,402,624; Jan. 3.
 Tire, Resilient. S. P. Long. No. 1,422,996; July 18.
 Tire, Resilient. J. D. McGrath and C. H. McCarthy. No. 1,402,628; Jan. 3.
 Tire, Resilient. S. R. Murphy and G. Dumas. No. 1,434,719; Nov. 7.
 Tire, Resilient. M. J. O'Connor. No. 1,405,859; Feb. 7.
 Tire, Resilient. A. J. Ostberg and A. Kenny. No. 1,411,506; Apr. 4.
 Tire, Resilient. A. V. Roe. No. 1,421,029; June 27.
 Tire, Resilient. D. M. Rothenberger. No. 1,426,108; Aug. 15.
 Tire, Resilient. H. J. Stewart. No. 1,409,795; Mar. 14.
 Tire, Resilient. G. J. Stillman. No. 1,437,275; Nov. 28.
 Tire, Resilient. J. P. Stranahan. No. 1,431,055; Oct. 3.
 Tire, Resilient. J. S. Williams. No. 1,420,674; June 27.
 Tire, Resilient. L. W. Wood. No. 1,405,960; Feb. 7.
 Tire, Resilient. V. O. Woodruff. No. 1,419,001; June 6.
 Tire, Resilient. J. C. Yager. No. 1,432,094; Oct. 17.
 Tire, Resilient vehicle. F. W. Sherwood. No. 1,427,331; Aug. 29.
 Tire, Resilient wheel. C. D'Aiuto. No. 1,432,158; Oct. 17.
 Tire, Resilient wheel. I. Wroznina. No. 1,439,784; Dec. 26.
 Tire retainer. F. E. Haggman. No. 1,434,742; Nov. 7.
 Tire rim. D. Moriarty. No. 1,439,256; Dec. 19.
 Tire rim. A. L. Putnam. No. 1,419,170; June 13.
 Tire rim. J. A. Villocchi. No. 1,427,707; Aug. 29.
 Tire rim, Automobile. J. A. Beddingfield. Nos. 1,408,164-5; Feb. 28.
 Tire rim, Collapsible. J. H. Bowles. No. 1,424,073; July 25.
 Tire-rim construction. B. F. Getz. No. 1,404,286; Jan. 24.
 Tire-rim contracting and expanding device. G. S. Webb. No. 1,410,631; Mar. 28.
 Tire rim, Demountable. C. G. Belden. Nos. 1,416,939-40; May 23.
 Tire rim, Demountable. J. H. Jones. No. 1,423,942; July 25.
 Tire rim, Demountable. A. H. Lundstrom. No. 1,406,664; Feb. 14.
 Tire rim for use on autotrucks and other vehicles. T. W. Costello. No. 1,410,892; Mar. 28.
 Tire-rim lock. C. F. Wasserfallen. No. 1,425,817; Aug. 15.
 Tire rim, Pneumatic. M. McGlochin. No. 1,410,067; Mar. 21.
 Tire-rim protector. P. S. Whiting. No. 1,411,544; Apr. 4.
 Tire rim, Sectional. H. H. Hively. No. 1,424,019; July 25.
 Tire rim, Sectional. H. H. Hively. No. 1,424,476; Aug. 1.
 Tire-rim tool. N. A. Eubank. No. 1,422,948; July 18.
 Tire-rim tool. C. W. King. No. 1,431,163; Oct. 10.
 Tire rim, Vehicle-wheel pneumatic. P. M. Miller. No. 1,402,003; Jan. 3.
 Tire-rimming apparatus. A. H. Harris. No. 1,429,733; Sept. 19.
 Tire rims, Lock for spare. H. F. Briggs. No. 1,438,574; Dec. 12.
 Tire rims, Making. E. H. Wulff. No. 1,437,628; Dec. 5.
 Tire, Rubber. A. L. Freedlander and W. G. Goodwin. No. 1,417,051; May 23.
 Tire, Rubber. J. Todd. No. 1,424,787; Aug. 8.
 Tire, Rubber. A. Witzel. No. 1,419,343; June 13.
 Tire saver, Automobile. O. Olson. No. 1,433,295; Oct. 24.
 Tire, Sectional pneumatic. W. H. Schroeder. No. 1,419,768; June 13.
 Tire, Sectional pneumatic. J. N. Stout and E. E. Parsons. No. 1,407,178; Feb. 21.
 Tire, Sectional vehicle. F. H. Bonumarius and P. Carollo. No. 1,433,338; Oct. 24.
 Tire-securing means. K. Knudsen. No. 1,439,424; Dec. 19.
 Tire-setting machine. T. Krauska. No. 1,416,094; May 16.
 Tire shaping machine. H. V. Lough. No. 1,418,662; June 6.
 Tire shield. W. T. Hogue. No. 1,436,102; Nov. 21.
 Tire shield. A. Staubach. No. 1,435,090; Nov. 7.
 Tire shield or auxiliary. L. O. Legan. No. 1,412,122; Apr. 11.
 Tire shoe, Emergency. J. A. Belcher. No. 1,432,097; Oct. 17.
 Tire shoe, Vehicle. F. A. Schultz. No. 1,435,667; Nov. 14.
 Tire signal. H. H. Clarke. No. 1,409,360; Mar. 14.
 Tire signal, Deflated. H. A. Wilson. No. 1,425,733; Aug. 15.
 Tire, Single-tube. S. O. Hahn. No. 1,406,555; Feb. 14.
 Tire, Snow. J. M. and C. D. Shannon. No. 1,438,339; Dec. 12.
 Tire, Solid. C. V. Honecker. No. 1,408,707; Mar. 7.
 Tire spreader. J. R. Fries and I. F. Rock. No. 1,435,833; Nov. 14.
 Tire, Spring. R. W. Eland. No. 1,439,077; Dec. 19.
 Tire stand. C. T. Fairbanks. No. 1,428,223; Sept. 5.
 Tire, Steel. A. P. Mallon. No. 1,426,585; Aug. 22.
 Tire, Steel spring. W. S. Hayden. No. 1,418,258; May 30.
 Tire-stem pressure gages, Transparent cap for. A. Badowski. Nos. 1,429,313-15; Sept. 19.
 Tire stock, Machine for and method of making cord. J. B. Brennan. No. 1,418,906; June 6.
 Tire-stripping machine. E. D. Putt. No. 1,428,979; Sept. 12.
 Tire, Supplemental. H. H. Lewis. No. 1,432,878; Oct. 24.
 Tire support. M. R. Kapp. No. 1,404,029; Jan. 17.
 Tire-testing method and machine. H. D. Ayres. No. 1,408,159; Feb. 28.
 Tire tool. J. P. Colgan. No. 1,434,648; Nov. 7.
 Tire tool. E. J. Johnson. No. 1,431,002; Oct. 3.
 Tire tool. G. A. Safstrom. No. 1,439,381; Dec. 19.
 Tire tool. W. H. Waldroff. No. 1,420,792; June 27.
 Tire tool, Bench. J. W. Barton. No. 1,415,916; May 16.
 Tire, Tool for releasing an air valve from rim of an automobile. E. Quinn. No. 1,421,987; July 4.
 Tire traction lug. G. W. Smith. No. 1,426,229; Aug. 15.
 Tire tread, Nonskid sectional. G. L. Simpson. No. 1,403,452; Jan. 10.
 Tire tread, Pneumatic. B. Darrow. No. 1,424,131; July 25.
 Tire trimmer. J. M. Angletti. No. 1,424,433; Aug. 1.
 Tire-tube carrier. A. C. Jerabek. (Reissue.) No. 15,383; June 13.
 Tire tube, Pneumatic. O. J. Humphrey. No. 1,417,383; May 23.
 Tire-tube-repairing kit. K. B. Wood. No. 1,434,577; Nov. 7.
 Tire tubes, Mandrel for. D. A. Clark. No. 1,412,842; Apr. 18.
 Tire, Two-in-one rubber. W. O'Connell. No. 1,422,123; July 11.
 Tire-unwrapping machines, Guide pin for. F. M. Pierce. No. 1,433,648; Oct. 31.
 Tire valve. E. Erik. No. 1,426,721; Aug. 22.
 Tire valve. M. J. Payne. No. 1,429,047; Sept. 12.
 Tire valve. A. F. Pesavanto. No. 1,436,524; Nov. 21.
 Tire valve and gauge. W. C. Loy. No. 1,408,012; Feb. 28.
 Tire valve and the like. M. C. Schweinert. No. 1,415,407; May 9.
 Tire-valve dust cap, Quick-detachable. C. H. Woodbury. No. 1,421,117; June 27.

Alphabetical list of inventions—Continued.

- Tire valve for vehicles, Multiple. J. A. Overlander. No. 1,433,643; Oct. 31.
- Tire valve or the like. H. P. Kraft. No. 1,432,869; Oct. 24.
- Tire valve, Pneumatic-. E. D. Dougherty. No. 1,420,245; June 20.
- Tire valve, Pneumatic-. H. F. Richter. No. 1,420,499; June 20.
- Tire-valve tool. H. C. Gielow. No. 1,415,628; May 9.
- Tire valves, Cap for. G. F. Powell. No. 1,413,775; Apr. 25.
- Tire valves, Cap for pneumatic-. W. R. Royer. No. 1,408,959; Mar. 7.
- Tire valves, Dust cap for. D. B. Dreese. No. 1,439,300; Dec. 19.
- Tire valves, Making dust caps for. H. P. Kraft. No. 1,405,042; Jan. 31.
- Tire valves, Pressure-retaining dust cap for pneumatic-. T. J. Dery. No. 1,421,420; July 4.
- Tire, Vehicle. E. Bylund. No. 1,422,921; July 18.
- Tire, Vehicle. G. M. Collins. No. 1,415,994; May 16.
- Tire, Vehicle. E. J. Emery. No. 1,431,785; Oct. 10.
- Tire, Vehicle. T. H. Kip. No. 1,407,756; Feb. 28.
- Tire, Vehicle. E. G. Niess-Waner. No. 1,436,672; Nov. 28.
- Tire, Vehicle. W. C. Peck. No. 1,416,303; May 16.
- Tire, Vehicle. C. S. Preston. No. 1,408,714; Mar. 7.
- Tire, Vehicle. C. S. Preston. No. 1,409,774; Mar. 14.
- Tire, Vehicle. M. Roderick. No. 1,438,663; Dec. 12.
- Tire, Vehicle. R. H. Waters. No. 1,407,967; Feb. 28.
- Tire, Vehicle wheel. M. Clark. No. 1,427,092; Aug. 29.
- Tire-vulcanizing apparatus. J. C. Tuttle. No. 1,402,980; Jan. 10.
- Tire-vulcanizing apparatus, Method and. O. M. Fredd. No. 1,428,428; Sept. 5.
- Tire-vulcanizing core, Expandible. A. B. Merrill. No. 1,435,970; Nov. 21.
- Tire-wrapping machine. G. W. Prouty. No. 1,413,776; Apr. 25.
- Tire-wrapping machines, Bead-pressing and guide rolls for. P. Pierce. No. 1,402,792; Jan. 10.
- Tired wheel rims, Safe for. W. T. Anderson. No. 1,406,607; Feb. 14.
- Tired wheel rims, Safe for. W. T. Anderson. No. 1,406,805; Feb. 14.
- Tires, Air tube for pneumatic. D. J. Chappell. No. 1,430,795; Oct. 3.
- Tires and an improved patch, Repairing pneumatic. P. E. Hawkinson. No. 1,436,394; Nov. 21.
- Tires and apparatus therefor, Manufacture of resilient. T. H. Channon. No. 1,424,802; Aug. 8.
- Tires and constructing same, Core for pneumatic. P. B. Bosworth. No. 1,409,995; Mar. 21.
- Tires and making them, Retread for. D. R. Radford. No. 1,426,672; Aug. 22.
- Tires and other purposes, Preparing bases for rubber. W. E. Williams. No. 1,412,326; Apr. 11.
- Tires and the like, Expandible core for curing automobile. W. F. Miller. No. 1,420,490; June 20.
- Tires, Antiskid attachment for elastic. W. T. Rollins. No. 1,423,026; July 18.
- Tires, Antiskid device for automobile. O. L., H. L., and C. E. Peterson. No. 1,435,551; Nov. 14.
- Tires, Antiskid device for vehicle. C. O. Bode. No. 1,429,837; Sept. 19.
- Tires, Antislip armor for cushion. H. S. Esch. No. 1,407,522; Feb. 21.
- Tires, Apparatus for building cord. C. F. Ofensend. No. 1,405,427; Feb. 7.
- Tires, Apparatus for making cushion. J. R. Gammeter. No. 1,418,639; June 6.
- Tires, Apparatus for making pneumatic. E. H. Trump. No. 1,417,701; May 30.
- Tires, Apparatus for refinishing blemished. W. Kearns and H. P. Connelly. No. 1,431,403; Oct. 10.
- Tires, Apparatus for rolling. O. Reifurth. No. 1,406,895; Feb. 14.
- Tires, Armor for. S. Andrews. No. 1,428,467; Sept. 5.
- Tires, Armor for pneumatic. A. R. Bruce. No. 1,409,522; Mar. 14.
- Tires, Armor for vehicle. V. P. Ratzburg. (Reissue.) Nos. 15,386-7; June 13.
- Tires, Armor for vehicle. W. G. Stockham. No. 1,405,351; Jan. 31.
- Tires, Auxiliary attachment for pneumatic. A. P. Schein. No. 1,435,338; Nov. 14.
- Tires, Blow-out boot for. W. N. Auclair. No. 1,403,000; Jan. 10.
- Tires, Buffer for. M. A. Replogle. No. 1,426,910; Aug. 22.
- Tires, Cap gauge for pneumatic. F. A. and J. L. Conrad. No. 1,422,256; July 11.
- Tires, Chain for automobile. E. R. Koch. No. 1,402,364; Jan. 3.
- Tires, Clamp for protecting. C. W. G. Allender. No. 1,426,532; Aug. 22.
- Tires, Collapsible rim for automobile. S. W. Day. No. 1,433,499; Oct. 24.
- Tires, Collapsible rim for pneumatic. W. E. Dressel. (Reissue.) No. 15,366; May 30.
- Tires, Constructing pneumatic. F. S. Dickinson. No. 1,420,611; June 20.
- Tires, Core for forming automobile. A. German. No. 1,427,528; Aug. 29.
- Tires, Device for facilitating emplacement and displacement of flexible. J. Schmitt. No. 1,405,872; Feb. 7.
- Tires, Device for mounting and removing. C. Kerschbaum. No. 1,428,440; Sept. 5.
- Tires, Device for repairing pneumatic. J. Merz. No. 1,414,091; Apr. 25.
- Tires, etc., Manufacture of rubber. A. P. Diescher. No. 1,407,193; Feb. 21.
- Tires, Expandible bag for vulcanizing. L. R. McGuire. No. 1,410,023; Mar. 21.
- Tires, Expandible core for vulcanizing. H. J. Bittaker. No. 1,407,718; Feb. 28.
- Tires, Expandible core for vulcanizing. W. A. and M. F. Gram. No. 1,406,640; Feb. 14.
- Tires for automobiles, Apparatus for building pneumatic. E. Hopkinson and H. V. Lough. No. 1,410,309; Mar. 21.
- Tires for vehicle wheels and the like, Process and apparatus for producing bodies under tension to be used as. D. Maggiora. No. 1,429,605; Sept. 19.
- Tires, Forming. W. G. Fording. No. 1,422,046; July 4.
- Tires from molds, Device for removing. R. N. Van Buskirk. No. 1,418,753; June 6.
- Tires, Guard chain for pneumatic. F. L. Merkle. No. 1,422,117; July 11.
- Tires, Inner liner for automobile. H. N. Wayne. No. 1,416,917; May 23.
- Tires, Inner lining and reinforcement for pneumatic. F. X. Schuler. No. 1,408,644; Mar. 7.
- Tires, Inner tube for. G. W. Bolser. No. 1,429,015; Sept. 12.
- Tires, Inner tube for. H. L. Pixley. No. 1,431,596; Oct. 10.
- Tires, Inner tube for automobile. H. N. Wayne. No. 1,415,283; May 9.
- Tires, Inner tube for pneumatic. L. F. Burke. No. 1,436,695; Nov. 28.
- Tires, Inner tube for pneumatic. C. B. Orr. No. 1,424,135; July 25.
- Tires, Inner tube for pneumatic. N. G. Warth. No. 1,410,630; Mar. 28.
- Tires, Inner tube for pneumatic. N. G. Warth. No. 1,429,385; Sept. 19.
- Tires, Low-pressure alarm for pneumatic. W. H. Brown. No. 1,424,278; Aug. 1.
- Tires, Low-pressure alarm for pneumatic. W. A. Harris. No. 1,417,168; May 23.
- Tires, Machine for trimming. E. D. Putt. No. 1,417,627; May 30.
- Tires, Making. W. B. Burke. No. 1,422,537; July 11.
- Tires, Making. M. A. Marquette. No. 1,419,879; June 13.
- Tires, Making liners for reinforcing the covers of pneumatic. W. H. A. Theed and A. T. Phillips. No. 1,421,616; July 4.
- Tires, Making semisolid. R. H. Waters. No. 1,428,508; Sept. 5.
- Tires, Making shoes or casings for pneumatic. B. De Mattia. No. 1,428,419; Sept. 5.
- Tires, Making vehicle. J. A. Swinehart. No. 1,426,927; Aug. 22.
- Tires, Manufacture of. J. C. Clinefelter and H. Ries. No. 1,407,839; Feb. 28.
- Tires, Manufacture of cord. W. O'Neil. No. 1,437,859; Dec. 5.
- Tires, Manufacturing carrier rings for solid rubber. M. Hering. No. 1,413,331; Apr. 18.
- Tires, Manufacturing cushion. H. M. Lambert. No. 1,429,512; Sept. 19.
- Tires, Method and apparatus for constructing. D. E. Goodenberger. No. 1,438,231; Dec. 12.
- Tires, Method and apparatus for making. F. J. Schrank. No. 1,411,672; Apr. 4.
- Tires, Method and apparatus for making cushion. J. R. Gammeter. No. 1,425,085; Aug. 8.
- Tires, Method and apparatus for making vehicle wheel. J. H. Smith, jr. No. 1,439,197; Dec. 19.
- Tires, Method and apparatus for manufacturing. E. Hopkinson. No. 1,417,739; May 30.
- Tires, Method and apparatus for manufacturing. W. Kline. No. 1,417,180; May 23.
- Tires, Method and apparatus for vulcanizing. W. C. Geer. No. 1,433,683; Oct. 31.
- Tires, Method of and apparatus for making resilient. G. H. Wheatley. No. 1,405,470; Feb. 7.
- Tires, Method of and apparatus for making resilient. G. H. Wheatley. No. 1,432,004; Oct. 17.
- Tires, Mold for making cushion. F. A. Krusemark. No. 1,408,100; Feb. 28.
- Tires, Mold for pneumatic. H. M. Lambert. No. 1,416,362; May 16.
- Tires, Mold for transverse and annular pneumatic. L. A. Subers. No. 1,429,377; Sept. 19.
- Tires, Nonskid attachment for vehicle. J. N. Burris. (Reissue.) No. 15,418; July 25.
- Tires, Nonskid chain for automobile. J. M. Green. No. 1,417,055; May 23.
- Tires, Nonskid device for automobile. R. H. and F. H. Bachman. No. 1,429,825; Sept. 19.
- Tires of the solid type, Apparatus for building. R. W. Snyder. No. 1,415,842; May 9.
- Tires of the solid type, Building. P. W. Litchfield. No. 1,424,134; July 25.
- Tires on sealing rings, Machine for mounting. R. Brushwiler and A. Otto. No. 1,431,366; Oct. 10.
- Tires or the like, Gauge for pneumatic. H. P. Kraft. No. 1,433,517; Oct. 24.

- Tires, Peeling knife for. H. Schwartz, Jr. No. 1,402,097; Jan. 3.
- Tires, Permanent air gauge for pneumatic. E. Jung. No. 1,421,490; July 4.
- Tires, Pressure-controlling device for pneumatic. J. C. Brakeman. No. 1,403,006; Jan. 10.
- Tires, Pressure-signaling device for. W. F. Arndt. No. 1,422,068; July 11.
- Tires, Protecting device for automobile. W. K. Knight. No. 1,406,655; Feb. 14.
- Tires, Protective armor for pneumatic. C. W. Loudon. No. 1,418,661; June 6.
- Tires, Protective covering for. W. C. Burt. No. 1,403,385; Jan. 10.
- Tires, Quick-detachable dust cap for pneumatic. W. E. Williams. No. 1,421,642; July 4.
- Tires, Quick-locking cap for the air valves of automobile. J. A. Bozung. No. 1,406,336; Feb. 14.
- Tires, Reinforcing fabric for vehicle. T. Branson. No. 1,407,012; Feb. 21.
- Tires, Repairing patch for pneumatic. A. Thiele. No. 1,422,495; July 11.
- Tires, Resilient core for motor. G. A. H. Robbins and S. F. E. Einsiedel. No. 1,423,580; July 25.
- Tires, Rim for pneumatic. J. T. Dickinson. No. 1,413,834; Apr. 25.
- Tires, Rim for vehicle. G. G. Barry. No. 1,425,826; Aug. 15.
- Tires, Safety and emergency attachment for. J. P. Spicer. No. 1,407,802; Jan. 31.
- Tires, Sectional inner strip for automobile. W. Berman. No. 1,423,748; July 25.
- Tires, Sectional rim for pneumatic. W. Flood. No. 1,417,724; May 30.
- Tires, Sectional rim for vehicle wheel. R. Stock. No. 1,436,829; Nov. 28.
- Tires, Self-sealing inner tube for automobile. H. N. Wayne. No. 1,428,570; Sept. 12.
- Tires, Shoe for resilient. G. Moore. No. 1,430,527; Dec. 19.
- Tires, Signal device for auto. E. B. Durney and C. V. Reister. No. 1,411,714; Apr. 4.
- Tires, System of determining the age and identification of automobile. C. E. Hixson. No. 1,411,356; Apr. 4.
- Tires to demountable rims, Means for attaching. L. P. Worrall. No. 1,403,141; Jan. 10.
- Tires to rims of vehicles, Means for securing. D. Maggiora. No. 1,429,152; Sept. 12.
- Tires, Traction appendage for wheel. A. E. Bibler. No. 1,407,832; Feb. 28.
- Tires, Transporting system particularly for use in connection with the manufacture of. C. Macbeth. No. 1,410,821; Mar. 28.
- Tires, Tread band for pneumatic. G. H. Alden. No. 1,425,356; Aug. 8.
- Tires, Treating rubber. A. A. Baffetti. No. 1,412,992; Apr. 18.
- Tires under internal pressure, Apparatus for curing. A. J. Fleiter. No. 1,404,949; Jan. 31.
- Tires, Valve attachment for pneumatic. A. J. Michelin. No. 1,430,461; Sept. 26.
- Tires, Valve device for pneumatic. J. N. Newsom and H. E. Harder. No. 1,423,873; July 25.
- Tires, Valve for pneumatic. A. E. Bronson. No. 1,426,350; Aug. 22.
- Tires with dust-laden air, Means for charging pneumatic. E. R. Draver. No. 1,411,424; Apr. 4.
- Tissues, Machine for rubbing. M. Vernay. No. 1,426,690; Aug. 22.
- Titanium complex and producing same. H. H. Buckman. No. 1,410,056; Mar. 21.
- Titanium complex and producing same. H. H. Buckman. No. 1,429,841; Sept. 19.
- Titanium complexes and producing same. H. H. Buckman. No. 1,402,256; Jan. 3.
- Titanium, Decomposition of nitrogen compounds of. G. P. Guignard. No. 1,411,087; Mar. 28.
- Titanium-nitrogen compounds, Producing. F. von Bichowsky and J. Harthan. No. 1,408,661; Mar. 7.
- Titanium-oxide pigment and producing same. W. F. Washburn. No. 1,412,027; Apr. 4.
- Toaster. T. C. Russell. No. 1,425,546; Aug. 15.
- Toaster. A. A. Warner. No. 1,404,916; Jan. 31.
- Toaster, Electric. M. F. Fitzgerald. No. 1,426,284; Aug. 15.
- Toaster, Electric. E. Schwartz. No. 1,425,344; Aug. 8.
- Toaster, Inclosed. W. Pascoe. No. 1,425,685; Aug. 15.
- Tobacco. H. Hibbert. No. 1,407,274; Feb. 21.
- Tobacco, Apparatus for curing. J. C. Reynolds. No. 1,413,783; Apr. 25.
- Tobacco, Bleaching. A. Delling. No. 1,437,095; Nov. 28.
- Tobacco-cutting machine. A. W. Adt. No. 1,419,094; June 6.
- Tobacco finisher or ripener. A. Peach. No. 1,440,237; Dec. 26.
- Tobacco-hanging machine. L. J. Paylor. No. 1,429,250; Sept. 19.
- Tobacco, Packing leaf. L. T. O'Bryan, W. M. Silk, and T. H. Kirk. No. 1,413,868; Apr. 25.
- Tobacco pipe. W. R. Dales. No. 1,429,022; Sept. 12.
- Tobacco pipe. W. W. Hesson. No. 1,424,408; Aug. 1.
- Tobacco pipe. C. Laban. No. 1,426,656; Aug. 22.
- Tobacco pipe. J. C. Luedke. No. 1,420,117; June 20.
- Tobacco pipe. J. W. A. McKillican. No. 1,410,586; Mar. 28.
- Tobacco pipe. J. Mesaros. No. 1,423,620; July 25.
- Tobacco pipe. J. J. Nagle. No. 1,434,261; Oct. 31.
- Tobacco pipe. H. Rapp. No. 1,433,228; Oct. 24.
- Tobacco pipe. J. Riedel. No. 1,416,066; May 16.
- Tobacco pipe. F. W. Smith. No. 1,427,762; Aug. 29.
- Tobacco pipe. L. Suedmeyer. No. 1,416,425; May 16.
- Tobacco-pipe cleaner. M. T. Bentley. No. 1,419,106; June 6.
- Tobacco-pipe stand. W. E. Edwards. No. 1,429,228; Sept. 19.
- Tobacco pipes, Attachment for. J. C. Monmonier. No. 1,423,869; July 25.
- Tobacco pouch. R. Lochhead. No. 1,409,959; Mar. 21.
- Tobacco press. L. B. Grasberger. No. 1,417,899; May 30.
- Tobacco-shredding apparatus. J. Deubel. No. 1,403,488; Jan. 17.
- Tobacco-stripping machine. J. O. Morris. No. 1,436,402; Nov. 21.
- Toboggan and slide. E. Cole. No. 1,417,594; May 30.
- Toe clip. J. S. Brown. No. 1,417,447; May 23.
- Toe ironing and treeing machine. D. B. Heath and A. Annis. No. 1,404,695; Jan. 24.
- Toenail-growing guide. A. Figielek. No. 1,420,085; June 20.
- Toe-plate press. L. T. Rowe. No. 1,433,234; Oct. 24.
- Toe protector. R. H. Anderson. No. 1,420,302; June 20.
- Toggle press. W. Klocke. No. 1,433,626; Oct. 31.
- Toggle, Reversible. J. E. Goewey. No. 1,411,083; Mar. 28.
- Toilet. C. C. Moore. No. 1,439,748; Dec. 26.
- Toilet accessory. G. H. Blanchard. No. 1,431,210; Oct. 10.
- Toilet article. J. R. Powell. No. 1,430,683; Oct. 3.
- Toilet article. W. H. Roystone. No. 1,425,138; Aug. 8.
- Toilet article. J. Sims. No. 1,420,766; June 27.
- Toilet-article case. A. Coryell. No. 1,420,523; June 20.
- Toilet-article, Combination. I. Tornansky. No. 1,405,077; Jan. 31.
- Toilet article, Combination. A. Weiner. No. 1,427,040; Aug. 22.
- Toilet-article-filling composition. H. Schneider. No. 1,436,203; Nov. 21.
- Toilet-article package. M. Crupain. No. 1,436,238; Nov. 21.
- Toilet bowl. L. D. Tucker. No. 1,430,417; Sept. 26.
- Toilet case. A. Izold. No. 1,436,591; Nov. 21.
- Toilet case. D. S. Wilson. No. 1,421,645; July 4.
- Toilet chair. Collapsible. R. F. Grabfelder. No. 1,428,627; Sept. 12.
- Toilet cups, Flow off and shut off device for. A. Leroi. No. 1,413,858; Apr. 25.
- Toilet device. H. S. Neiman. No. 1,438,778; Dec. 12.
- Toilet device. H. S. Neiman. No. 1,439,749; Dec. 26.
- Toilet fixture. G. Liddell. No. 1,432,194; Oct. 17.
- Toilet flush. C. H. Gunn. No. 1,407,998; Feb. 28.
- Toilet flusher. M. J. Skortz. No. 1,439,196; Dec. 19.
- Toilet implement. H. S. Satterlee. No. 1,427,857; Sept. 5.
- Toilet implement. K. Sulek. No. 1,409,979; Mar. 21.
- Toilet instrument. W. E. Kelly. No. 1,425,776; Aug. 15.
- Toilet, Marine. P. C. Hunter. No. 1,403,688; Jan. 17.
- Toilet outfit. S. R. Svendsgaard. No. 1,426,021; Aug. 15.
- Toilet package. M. Kaufman. No. 1,427,820; Sept. 5.
- Toilet-powder-applying device or implement. H. Ericson Smith. No. 1,431,881; Oct. 10.
- Toilet seat. A. Hess. No. 1,436,168; Nov. 21.
- Toilet seat. E. F. Ritter. No. 1,436,605; Nov. 21.
- Toilet-seat cover and pad of toilet paper, Sanitary. M. G. and J. H. Brewer. No. 1,419,212; June 13.
- Toilet-seat-cover holder and dispenser. H. C. Pfund and R. L. Ash. No. 1,440,101; Dec. 26.
- Toilet seat, Portable child's. W. D. Turnquist. No. 1,410,427; Mar. 21.
- Toilet seat, Portable supplemental. S. S. Weaver. No. 1,405,370; Jan. 31.
- Toilet seat, Sanitary. H. A. Christian. No. 1,405,283; Jan. 31.
- Toilet seat, Sanitary. H. S. Crayton. No. 1,429,490; Sept. 19.
- Toilet seats, Hinge anchor for. G. C. Dobson. No. 1,408,991; Mar. 7.
- Toilet seats, Protector for. C. T. Grove. No. 1,411,085; Mar. 28.
- Toilet tank, Muffler. J. C. Owens. No. 1,426,094; Aug. 15.
- Toilet, Ventilating. G. H. Van Eck. No. 1,424,955; Aug. 8.
- Toilets, Clean-out attachment for. A. T. J. Bahr. No. 1,437,582; Dec. 5.
- Toilets, Flushing device for. G. J. Geisser. No. 1,403,762; Jan. 17.
- Token carrier. J. C. Hopkins. No. 1,420,377; June 20.
- Toll lines, Signaling circuits for. J. Davidson, jr. No. 1,413,708; Apr. 25.
- Toll lines, Signaling circuits for. J. Davidson, jr. No. 1,429,931; Sept. 26.
- Tolling apparatus. W. G. Worrell. No. 1,412,441; Apr. 11.
- Tomato masher. F. Carlinio. No. 1,418,231; May 30.
- Tomatoes, Machine for skinning and coring. H. R. Harding. No. 1,423,421; July 18.
- Tone and line positive, Preparing a rotary gravure. J. M. Crowe. No. 1,428,009; Sept. 5.
- Tone arm, Convertible. A. R. Malone. No. 1,430,395; Sept. 26.

Alphabetical list of inventions—Continued.

- Tone hand set, Anti-side. G. K. Thompson. No. 1,402,322; Jan. 3.
- Tongs, C. D. Briddell. No. 1,415,143; May 9.
- Tongs, M. Rosehill. No. 1,415,196; May 9.
- Tongs, Z. Watts. No. 1,429,813; Sept. 19.
- Tongs, Blacksmith's. J. M. Black, Sr. No. 1,420,576; June 20.
- Tongs, Can. E. H. Taylor. No. 1,439,202; Dec. 19.
- Tongs, Canning. H. M. Boal. No. 1,435,202; Nov. 14.
- Tongs, Chain. C. Ashmussen. No. 1,408,968; Mar. 7.
- Tongs, Electrically heated. F. O. Brown. No. 1,422,826; July 18.
- Tongs for grasping plates and dishes, Automatically clamping. R. A. Jeammiet-Leyrit. No. 1,422,215; July 11.
- Tongs, Glass. C. F. Caswell. No. 1,428,679; Sept. 12.
- Tongs, Ice-cream. H. H. Hassler. No. 1,431,792; Oct. 10.
- Tongs, Optician's. K. Stein. No. 1,435,344; Nov. 14.
- Tongs, Pipe. C. A. Butler. No. 1,435,376; Nov. 14.
- Tongs, Pipe. C. A. Johnston. No. 1,433,623; Oct. 31.
- Tongs, Power. A. D. Hoellinger. No. 1,427,469; Aug. 29.
- Tongue guard, F. O. Heatwole. No. 1,405,689; Feb. 7.
- Tongue hound, Adjustable. F. J. Dultmeier. No. 1,404,590; Jan. 24.
- Tongue structure, Vehicle. M. M. Shea. No. 1,436,539; Nov. 21.
- Tongue support. C. Pearson. No. 1,419,303; June 13.
- Tonometer. A. Amsler. No. 1,423,293; July 18.
- Tonometer. I. Goldstein. No. 1,419,134; June 13.
- Tool. O. K. Bogstrand. No. 1,430,932; Oct. 3.
- Tool. J. M. Brandt. No. 1,417,492; May 30.
- Tool. W. H. Cameron. No. 1,422,538; July 11.
- Tool. B. W. Christian. No. 1,424,001; July 25.
- Tool. F. R. Clifton. No. 1,419,023; June 6.
- Tool. J. L. Dyer and H. T. Macneil. No. 1,429,852; Sept. 19.
- Tool. W. Engberg. No. 1,430,497; Sept. 26.
- Tool. W. W. Forbis. No. 1,418,110; Apr. 18.
- Tool. W. F. Hunter. No. 1,410,184; Mar. 21.
- Tool. D. Roberts. No. 1,414,750; May 2.
- Tool. C. H. Schmidgall. No. 1,438,931; Dec. 12.
- Tool. D. R. Schoonover. No. 1,405,339; Jan. 31.
- Tool. R. E. L. Smith. No. 1,429,977; Sept. 26.
- Tool. R. G. Smith. No. 1,418,983; June 6.
- Tool. H. W. Stimpson. No. 1,418,847; June 6.
- Tool. C. S. Straight. No. 1,414,531; May 2.
- Tool. P. Taylor. No. 1,424,861; Aug. 8.
- Tool. C. H. Wagner. No. 1,421,871; July 4.
- Tool. J. M. Wardlow. No. 1,434,257; Oct. 31.
- Tool. E. Wells. No. 1,414,847; May 2.
- Tool. S. A. Williams. No. 1,408,961; Mar. 7.
- Tool. E. Wisroth. No. 1,435,885; Nov. 14.
- Tool, Advancing cutter-boring. E. F. G. Gibbs. No. 1,423,209; July 18.
- Tool and holder, Separable. A. A. Waterman. No. 1,413,814; Apr. 25.
- Tool and holder therefor. W. W. Baker and F. W. Franklin. No. 1,424,392; Aug. 1.
- Tool, Automatic tapering and cut-off. C. Uebelmesser. No. 1,402,271; Jan. 3.
- Tool, Bolter-up. H. H. Hunter. No. 1,402,165; Jan. 3.
- Tool box. M. Meyerson. No. 1,414,826; May 2.
- Tool box. A. B. Slack. No. 1,421,732; July 4.
- Tool box and trestle, Combined. B. N. Brouner. No. 1,404,266; Jan. 24.
- Tool, Combination. L. R. Burnell. No. 1,418,529; June 6.
- Tool, Combination. C. E. Carpenter. No. 1,435,150; Nov. 14.
- Tool, Combination. A. B. Hance. No. 1,416,461; May 16.
- Tool, Combination. A. J. Hart. No. 1,421,220; June 27.
- Tool, Combination. J. K. Hoddinott. No. 1,436,040; Nov. 21.
- Tool, Combination. A. J. Johnson. No. 1,428,848; Sept. 12.
- Tool, Combination. M. R. Kronert. No. 1,406,262; Feb. 14.
- Tool, Combination. R. A. Moore. No. 1,421,287; June 27.
- Tool, Combination. A. T. Rossignol. No. 1,438,138; Dec. 5.
- Tool, Combination. G. D. Shinn. No. 1,413,798; Apr. 25.
- Tool, Combination gauging. S. Garratt, G. Barron, and A. Garratt. No. 1,408,085; Feb. 28.
- Tool, Compound. M. H. Tyler. No. 1,437,624; Dec. 5.
- Tool, Cutting. J. W. Lawson. No. 1,406,265; Feb. 14.
- Tool-dropping machine, Automatic. C. R. Boyce. No. 1,422,531; July 11.
- Tool for adjusting tappets. B. C. Miller. No. 1,435,544; Nov. 14.
- Tool-grinding machine. F. L. Wächtler. No. 1,429,308; Sept. 19.
- Tool, Hand. W. A. Bernard. No. 1,407,780; Feb. 28.
- Tool, Hand. T. and S. Pybourn. No. 1,433,566; Oct. 31.
- Tool handle. P. Elenchuk. No. 1,426,265; Aug. 15.
- Tool handle. I. D. Hrenczuk. No. 1,431,805; Oct. 10.
- Tool handle. W. Lauber. No. 1,425,598; Aug. 15.
- Tool handle. R. C. Olson. No. 1,409,311; Mar. 14.
- Tool handle. W. H. Stevens. No. 1,418,683; June 6.
- Tool handle. W. H. Stevens. No. 1,422,387; July 11.
- Tool handle. C. A. Walters. No. 1,423,055; July 18.
- Tool handle. J. V. Woodworth. No. 1,436,556; Nov. 21.
- Tool handle and making same. E. G. Gartin. No. 1,440,359; Dec. 16.
- Tool-handle coupling. A. J. Kirkpatrick. No. 1,433,381; Oct. 24.
- Tool-handle-holding means. G. D. Haines. No. 1,432,106; Oct. 17.
- Tool handles, Fastening for. T. J. Foley. No. 1,412,610; Apr. 11.
- Tool holder. J. C. Alquist. No. 1,422,247; July 11.
- Tool holder. B. T. Browand. No. 1,406,339; Feb. 14.
- Tool holder. B. T. Browand. No. 1,433,527; Oct. 31.
- Tool holder. W. Cockcroft. No. 1,410,528; Mar. 21.
- Tool holder. S. J. Cushing. No. 1,413,101; Apr. 18.
- Tool holder. W. J. Dorrans. No. 1,438,368; Dec. 12.
- Tool holder. P. N. Frease. No. 1,429,500; Sept. 19.
- Tool holder. B. M. W. Hanson. No. 1,406,006; Feb. 7.
- Tool holder. S. J. Hellman. No. 1,412,284; Apr. 11.
- Tool holder. V. Hovanec. No. 1,422,058; July 4.
- Tool holder. J. Hunt. No. 1,409,719; Mar. 14.
- Tool holder. E. A. Johansson. No. 1,416,832; May 23.
- Tool holder. L. W. Jones. No. 1,433,040; Dec. 5.
- Tool holder. E. S. Karlson. No. 1,432,467; Oct. 17.
- Tool holder. P. W. Kluz. No. 1,404,446; Jan. 24.
- Tool holder. F. Knoop. No. 1,415,578; May 9.
- Tool holder. M. E. Lange and T. Norton. No. 1,434,782; Nov. 7.
- Tool holder. J. L. Layton and E. T. Hopkins. No. 1,412,688; Apr. 11.
- Tool holder. T. O. Martin. No. 1,415,379; May 9.
- Tool holder. T. O. Martin. No. 1,427,403; Aug. 29.
- Tool holder. W. H. Mensching. No. 1,402,001; Jan. 3.
- Tool holder. J. R. Moore. No. 1,423,245; July 18.
- Tool holder. G. Osberg. No. 1,407,764; Feb. 28.
- Tool holder. A. G. Ostermann. No. 1,410,714; Mar. 28.
- Tool holder. F. H. Petersen. No. 1,435,873; Nov. 14.
- Tool holder. G. F. Pickett. No. 1,406,220; Feb. 14.
- Tool holder. F. Pretsch. No. 1,407,478; Feb. 21.
- Tool holder. F. Pretsch. No. 1,413,490; Apr. 18.
- Tool holder. W. J. Smith. No. 1,409,254; Mar. 14.
- Tool holder. E. M. Smith. No. 1,410,131; Mar. 21.
- Tool holder. G. H. Stahl. No. 1,422,491; July 11.
- Tool holder. P. O. Stangeland. No. 1,416,904; May 23.
- Tool holder. E. G. Strong. No. 1,436,210; Nov. 21.
- Tool holder. K. Studinka. No. 1,418,987; June 6.
- Tool holder. W. Sury. No. 1,440,187; Dec. 26.
- Tool holder. A. Trosch. No. 1,432,500; Oct. 17.
- Tool holder. C. R. Vickers. No. 1,439,985; Dec. 26.
- Tool holder. W. M. Ziegler. No. 1,433,590; Oct. 31.
- Tool-holder attachment. J. Henning. No. 1,419,967; June 20.
- Tool holder, Machine. C. L. Newland. No. 1,406,064; Feb. 7.
- Tool holders, Pin retainer for. L. C. Bayles. No. 1,423,595; July 25.
- Tool, Impact. W. H. Shortell, and F. L. Sutcliffe. No. 1,427,556; Aug. 29.
- Tool, Jawed. J. H. Ridings. No. 1,427,550; Aug. 29.
- Tool-joint lock. C. B. and C. D. Reynolds. No. 1,417,411; May 23.
- Tool kit. G. R. Fullenwider. No. 1,417,725; May 30.
- Tool kit for mechanics, Metal. H. L. Kennedy. No. 1,405,422; Feb. 7.
- Tool kit for motor vehicles. R. F. Nelson. No. 1,419,166; June 13.
- Tool, Machine. J. La Rock. No. 1,420,323; June 20.
- Tool, Multiple-operation. A. M. Mayle. No. 1,432,481; Oct. 17.
- Tool, Needle-shaping. C. L. Landis. No. 1,405,045; Jan. 31.
- Tool-operating machine. A. Salata. No. 1,418,205; May 30.
- Tool or drill holder. C. F. De Armond. No. 1,403,847; Jan. 17.
- Tool or implement. C. F. Jacobs. No. 1,412,348; Apr. 11.
- Tool, Percussive. L. C. Bayles and F. M. Slater. No. 1,408,684; Mar. 7.
- Tool, Pneumatic. W. H. Keller. No. 1,420,318; June 20.
- Tool post. H. Haldy. No. 1,409,099; Mar. 7.
- Tool-quenching tank and the like. F. J. Vlichek and A. Placek. No. 1,433,861; Oct. 31.
- Tool-retaining means. G. M. Nell. No. 1,430,102; Sept. 26.
- Tool, Rotatable hand. J. R. Ayotte. No. 1,419,100; June 6.
- Tool safety device. F. W. Grady. No. 1,433,814; Oct. 31.
- Tool, Stepping. E. J. and R. E. Cotter. No. 1,406,156; Feb. 7.
- Tool, Subdividing. J. F. Bergander. No. 1,416,323; May 16.
- Tool-tempering furnace, Electric. O. A. Colby. No. 1,433,700; Oct. 31.
- Tool, Upsetting. H. G. Carlson. No. 1,402,919; Jan. 10.
- Tools, Adjustable handle for. G. G. O'Connor. No. 1,413,869; Apr. 25.
- Tools, Appliance for. J. Pavelka. No. 1,406,071; Feb. 7.
- Tools, Automatically-operating device for cutting off the feed motion of machine. N. S. Olsson. No. 1,436,674; Nov. 28.
- Tools, Controlling mechanism for fluid-operated. H. P. L. Laussucq. No. 1,435,138; Nov. 7.
- Tools, Guide or gauge for reciprocating hand. H. Briggs. No. 1,406,924; Feb. 14.
- Tools, Hand grip for. W. S. Bellows. No. 1,433,114; Oct. 24.
- Tools, Heating unit for electrically-heated. F. Kuhn, L. H. Thomas, and J. G. Spiess. No. 1,407,692; Feb. 28.

Alphabetical list of inventions—Continued.

- Tools, Making. R. H. Smith. No. 1,407,894; Feb. 28.
Tools, Means for automatically cutting off the feed motion of machine. N. J. Olsson. No. 1,421,544; July 4.
Tools, Mechanism for driving. A. E. Bergey. No. 1,406,963; Feb. 21.
Tools, Trip mechanism for machine. S. Einstein. No. 1,419,117; June 6.
Tools, Work-centering device for machine. A. Turner and H. W. Dunbar. No. 1,440,189; Dec. 26.
Tooth anchorage, Artificial. J. Arkin. No. 1,429,552; Sept. 19.
Tooth and backing therefor, Artificial. J. D. Frankel. No. 1,433,997; Oct. 31.
Tooth and crowns, Tube. A. H. Sibley and G. L. Van Allen. No. 1,423,628; July 25.
Tooth, Artificial. R. A. De Rome. No. 1,403,297; Jan. 10.
Tooth, Artificial. R. A. De Rome. No. 1,439,508; Dec. 19.
Tooth, Artificial. S. L. Greenberg. No. 1,417,376; May 23.
Tooth, Artificial. E. J. Kochmit. No. 1,414,475; May 2.
Tooth, Artificial. V. Mallon. No. 1,426,661; Aug. 22.
Tooth, Artificial. B. J. Park. No. 1,404,316; Jan. 24.
Tooth, Artificial. J. E. Rose. No. 1,423,027; July 18.
Tooth, Artificial interchangeable. A. Schwartz and J. Wieder. No. 1,426,114; Aug. 15.
Toothbrush. L. H. Alles. No. 1,415,760; May 9.
Toothbrush. W. M. Cassidy. No. 1,405,279; Jan. 31.
Toothbrush. G. Chicken. No. 1,409,830; Mar. 14.
Toothbrush. E. E. Elliott. No. 1,417,811; May 30.
Toothbrush. A. E. Feudrich. No. 1,420,967; Oct. 3.
Toothbrush. W. S. Field. No. 1,421,199; June 27.
Toothbrush. H. W. Goff. No. 1,434,436; Nov. 7.
Toothbrush. W. J. Hines. No. 1,435,641; Nov. 14.
Toothbrush. P. Iroff. No. 1,414,645; May 2.
Toothbrush. H. Matsumaga. No. 1,414,886; May 2.
Toothbrush. A. Mendoza. No. 1,432,715; Oct. 17.
Toothbrush. J. Novak. No. 1,417,407; May 25.
Toothbrush. L. Osborn. No. 1,407,214; Feb. 21.
Toothbrush. B. H. Rost. No. 1,415,898; May 16.
Toothbrush. A. Saxe. Nos. 1,439,913-14; Dec. 26.
Toothbrush. H. R. Ward. No. 1,439,279; Dec. 19.
Toothbrush. W. L. Webster. No. 1,421,875; July 4.
Toothbrush and dentifrice holder, Combination. L. Dayeh. No. 1,423,405; July 18.
Toothbrush, Combination. H. F. Schoneman. No. 1,420,581; June 20.
Toothbrush, Fountain. C. J. Koepke. No. 1,436,883; Nov. 28.
Toothbrush fountain attachment. J. P. Sencindiver. No. 1,435,558; Nov. 14.
Toothbrush holder. H. Giles. No. 1,409,701; Mar. 14.
Toothbrush, Rotary. E. F. Schworm. No. 1,420,388; June 20.
Toothbrush, Rotary. J. L. T. Sneed. No. 1,407,956; Feb. 28.
Toothbrush sterilizer and retainer. S. H. Thompson. No. 1,419,593; June 13.
Tooth cavities and nerve canals, Method and means for treating and filling. A. I. Harvin. No. 1,417,379; May 23.
Tooth cervical clamp. J. W. Ivory. No. 1,414,647; May 2.
Tooth cleaner, Sanitary. R. Thum. No. 1,414,604; May 2.
Tooth cleaning and polishing bur. C. H. Wake. No. 1,427,503; Aug. 29.
Tooth-cleaning articles, Holder for. H. Ausubel. No. 1,424,434; Aug. 1.
Tooth-cleaning device. A. B. Cohen. No. 1,421,911; July 4.
Tooth, Connecting the backing and facing of a. L. H. Sprinkle. No. 1,405,874; Feb. 7.
Tooth crown. J. E. Richmond. No. 1,431,425; Oct. 10.
Tooth crown and securing means therefor, Artificial. E. M. Fredericks. No. 1,418,070; May 30.
Tooth for crown, bridge, and plate work, Porcelain. V. Mallon. No. 1,425,601; Aug. 15.
Tooth, Interchangeable. R. J. McVicker. No. 1,407,557; Feb. 21.
Toothpick cutter and dispenser. J. Powers. No. 1,436,528; Nov. 21.
Tooth, Temporary. G. R. De Nise. No. 1,436,016; Nov. 21.
Top. E. W. Gibbs. (Reissue). No. 15,475; Oct. 24.
Top and support therefor, Spinning. W. K. Mann. No. 1,411,974; Apr. 4.
Top-back bracket. S. W. Palmer. No. 1,404,315; Jan. 24.
Top, Gyroscopic. E. E. J. Bonneau. No. 1,435,580; Nov. 14.
Top notch and runner. C. L. Baker. No. 1,429,828; Sept. 19.
Tops and the like, Device for spinning. J. W. Whiteley and W. T. Mould. No. 1,436,634; Nov. 21.
Top, Spinning. S. Asaturian. No. 1,401,952; Jan. 3.
Top, Spinning. A. E. Sandstrom. No. 1,403,200; Jan. 10.
Top, Spinning. S. Szucs. No. 1,419,651; June 13.
Topographic recorder. D. Sensaud de Lavaud. No. 1,427,267; Aug. 29.
Topper and harvester, Beet. J. A. Mueller. No. 1,411,804; Apr. 4.
Topping machine. G. E. Pletcher. No. 1,413,774; Apr. 25.
Torch. E. Folgman. No. 1,434,284; Oct. 31.
Torch. E. E. and W. Garrison. No. 1,433,999; Oct. 31.
Torch. F. Squire. No. 1,411,589; Apr. 4.
Torch. P. F. Willis. No. 1,408,673; Mar. 7.
Torch, Acetylene. J. J. Strobot. No. 1,424,189; Aug. 1.
Torch burner. O. J. Groehn. No. 1,420,696; June 27.
Torch burner, Wide-mouth. O. J. Groehn. No. 1,420,697; June 27.
Torch, Cutting. C. J. Coberly. No. 1,404,011; Jan. 17.
Torch, Cutting. A. Godfrey. No. 1,420,921; June 27.
Torch, Cutting. J. H. Turpin and O. B. Brookman. No. 1,407,306; Feb. 21.
Torch heads, Soldering-iron attachment for acetylene. W. C. Hackman. No. 1,428,956; Sept. 12.
Torch, Oxyacetylene welding. M. F. Schworm. No. 1,432,418; Oct. 17.
Torch, Plumber's. W. F. Pagel. No. 1,409,232; Mar. 14.
Torch, Welding. J. B. Burdett. No. 1,432,528; Oct. 17.
Torch, Welding. C. J. Coberly. No. 1,436,433; Nov. 21.
Torch, Welding. C. H. Pasch. No. 1,430,026; Sept. 26.
Torch, Welding. J. C. Tcherath. No. 1,418,688; June 6.
Torches, Automatic metal-feeding device for. A. F. Jenkins. No. 1,412,655; Apr. 11.
Torches, Cutting tip for. W. P. Brown, T. A. Errett, and G. M. Brittain. No. 1,439,861; Dec. 26.
Torches, Fuel tank for. J. A. Mueher. No. 1,405,147; Jan. 31.
Torches, Mixer for welding. W. P. Brown and G. M. Brittain. No. 1,414,454; May 2.
Torpedo. F. W. Baldwin. No. 1,410,872; Mar. 28.
Torpedo. J. Giolosa. No. 1,406,369; Feb. 14.
Torpedo. F. L. Wanklyn. No. 1,437,625; Dec. 5.
Torpedo and other gyroscopically-controlled moving body, Automobile. E. Lees and H. L. Parry. No. 1,410,931; Mar. 28.
Torpedo, Automobile or self-propelled. H. Maxim. No. 1,412,789; Apr. 11.
Torpedo depth gear. W. Dieter. No. 1,432,744; Oct. 24.
Torpedo firing, Apparatus for controlling. J. H. Hammond, jr. No. 1,431,140; Oct. 3.
Torpedo firing, Apparatus for controlling. J. H. Hammond, jr. No. 1,431,142; Oct. 3.
Torpedo firing, System and apparatus for controlling. J. H. Hammond, jr. No. 1,431,141; Oct. 3.
Torpedo for blasting purposes. G. E. Geim. No. 1,406,844; Feb. 14.
Torpedo guard. A. Corsini. No. 1,405,294; Jan. 31.
Torpedo guard for vessels. L. M. Harriman. No. 1,413,270; Apr. 18.
Torpedo, Land. E. E. Wickersham. No. 1,407,969; Feb. 28.
Torpedo-launching mechanism. W. Dieter. No. 1,402,746; Jan. 10.
Torpedo-launching tubes, Recording device for. W. Dieter. No. 1,430,300; Oct. 3.
Torpedo, Railway signal. F. Dutcher. No. 1,402,583; Jan. 3.
Torpedo, Railway signal. F. Dutcher. No. 1,403,490; Jan. 17.
Torpedo, Railway signal. F. Dutcher. No. 1,404,514; Jan. 24.
Torpedo, Railway signal. F. Dutcher. No. 1,414,264; Apr. 25.
Torpedo, Railway signal. F. Dutcher. No. 1,415,813; May 9.
Torpedo, Railway signal. F. Dutcher. No. 1,421,188; June 27.
Torpedo, Railway signal. J. H. Sickel. No. 1,438,063; Dec. 5.
Torpedo, Railway-track. F. L. Wanklyn. No. 1,438,201; Dec. 12.
Torpedoes, Aerial. J. S. Mathews. No. 1,411,861; Apr. 4.
Torpedoes, Air flask for. W. Dieter. No. 1,429,023; Sept. 12.
Torpedoes, Apparatus for predirecting and launching. J. H. Hammond, jr. No. 1,431,143; Oct. 3.
Torpedoes, Composition for railway signal. L. S. Ross. No. 1,404,653; Jan. 24.
Torpedoes, Depth gear for. H. M. Branham. No. 1,423,179; July 18.
Torpedoes, Explosive tablet for railway signal. F. Dutcher. No. 1,421,187; June 27.
Torpedoes, Gyroscopic apparatus for. E. A. Sperry. No. 1,421,854; July 4.
Torpedoes, Instrument for testing. A. Barr and W. Stroud. No. 1,404,422; Jan. 24.
Torpedoes, Launching mechanism for. J. H. Hammond, Jr. No. 1,418,795; June 6.
Torpedoes, Mechanism carried by aircraft for adjusting. A. C. Thornton. No. 1,420,592; June 20.
Torpedoes, Predirecting system for. A. D. Trenor. No. 1,418,851; June 6.
Torpedoes, Propelling mechanism for. W. Dieter. No. 1,407,262; Feb. 21.
Torpedoes, Propelling mechanism for automobile. W. Dieter. No. 1,407,261; Feb. 21.
Torpedoes, Shooting. E. M. Rist. No. 1,409,409; Mar. 14.
Torpedoes, System for predirecting. A. D. Trenor. No. 1,408,147; Feb. 28.
Torpedoes, System for salvo firing of. H. L. F. Buswell. No. 1,431,144; Oct. 3.
Torpedoes, System of salvo firing for. J. H. Hammond, Jr., and A. D. Trenor. No. 1,430,644; Oct. 3.
Torque tube. C. E. Weaver. No. 1,435,355; Nov. 14.
Torsionmeter. F. T. Edgcombe. No. 1,434,107; Oct. 31.

Alphabetical list of inventions—Continued.

- Totalizer clear signal. H. Golber and A. F. Poole. No. 1,426,377; Aug. 22.
 Totalizer clear signal. A. F. Poole. No. 1,426,502; Aug. 22.
 Totalizing mechanism. W. E. Hosch. No. 1,409,547; Mar. 14.
 Totalizing meter. G. W. MacKenzie. No. 1,413,046; Apr. 18.
 Tow and push bar, Combined. G. M. Colling. No. 1,422,928; July 18.
 Tow rod. F. P. Sheronas. No. 1,433,486; Oct. 24.
 Towing and hoisting device. E. Holmes. No. 1,435,065; Nov. 7.
 Towing device. A. Heymoss. No. 1,408,002; Feb. 28.
 Towing device. E. Holmes. No. 1,435,064; Nov. 7.
 Towing device. F. Reinschmidt. No. 1,428,860; Sept. 12.
 Towing engine. T. S. Miller. No. 1,405,612; Feb. 7.
 Towing head. E. Holmes. No. 1,435,063; Nov. 7.
 Towing hook. J. Abraham. No. 1,417,222; May 23.
 Towing hook. W. H. Crandall. No. 1,435,587; Nov. 14.
 Towing machine and towing. A. Cunningham. No. 1,414,724; May 2.
 Towline and fastener. G. W. Moore. No. 1,418,958; June 6.
 Towrope. G. H. and J. L. Callaghan. No. 1,407,378; Feb. 21.
 Towel cabinet. G. R. Marshall and J. A. Bruce. No. 1,410,063; Mar. 21.
 Towel cabinet. H. C. Wheeler. No. 1,418,219; May 30.
 Towel dispenser. F. L. Sargent. No. 1,427,420; Aug. 29.
 Towel hanger, Rapid. F. Philippe, sr. No. 1,437,546; Dec. 5.
 Towel holder. F. R. Koons and F. L. Fisher. No. 1,431,010; Oct. 3.
 Towel holder. W. Norman. No. 1,426,495; Aug. 22.
 Towel holder. F. J. Tefft. No. 1,431,765; Oct. 10.
 Towel-holding device. A. P. Shupe. No. 1,404,240; Jan. 24.
 Towel rack. O. H. Eggert. No. 1,425,459; Aug. 8.
 Towel rack. J. C. Williams. No. 1,431,611; Oct. 10.
 Towels and other articles, Holder for. C. A. Michaels. No. 1,409,056; Mar. 7.
 Tower gas cleaner. F. R. McGee and G. W. Vreeland. No. 1,413,126; Apr. 18.
 Tower, Steel. H. E. Moore. No. 1,403,051; Jan. 10.
 Towers, Construction of extensible. H. L. Christie. No. 1,426,276; Aug. 15.
 Toy. H. A. Ananian. No. 1,407,621; Feb. 21.
 Toy. E. B. Andes. No. 1,430,875; Oct. 3.
 Toy. T. N. Arnold. No. 1,415,292; May 9.
 Toy. W. E. Benton. No. 1,404,509; Jan. 24.
 Toy. S. S. K. Biroscak. No. 1,422,334; July 11.
 Toy. M. R. Bodine and S. B. Dunlap. No. 1,402,563; Jan. 3.
 Toy. W. A. Breuer. No. 1,434,364; Nov. 7.
 Toy. W. A. Browne. No. 1,421,161; June 27.
 Toy. R. B. Budin. No. 1,424,982; Aug. 8.
 Toy. L. Burke, Jr. No. 1,405,752; Feb. 7.
 Toy. W. A. Camp. No. 1,412,448; Apr. 11.
 Toy. J. W. Carlson. No. 1,422,833; July 18.
 Toy. I. M. Childs. No. 1,424,450; Aug. 1.
 Toy. W. M. Coleman. No. 1,435,585; Nov. 14.
 Toy. W. T. Davis. No. 1,429,571; Sept. 19.
 Toy. H. H. Des Roches. No. 1,433,189; Oct. 24.
 Toy. A. H. De Voe. No. 1,430,062; Sept. 26.
 Toy. F. G. Dupell. No. 1,411,962; Apr. 4.
 Toy. J. J. Earley. No. 1,427,790; Sept. 5.
 Toy. C. Fago, jr. No. 1,430,965; Oct. 3.
 Toy. J. Farr. No. 1,424,453; Aug. 1.
 Toy. P. Gentile and A. Del Gindice. No. 1,426,375; Aug. 22.
 Toy. P. C. Giegler. No. 1,410,009; Mar. 21.
 Toy. J. T. Gordon. No. 1,433,886; Oct. 31.
 Toy. W. C. Hadley. No. 1,403,949; Jan. 17.
 Toy. W. C. Hadley. No. 1,431,890; Oct. 10.
 Toy. G. N. Hall. No. 1,437,972; Dec. 5.
 Toy. H. R. Hayward. No. 1,430,503; Sept. 26.
 Toy. D. Heyman. No. 1,436,712; Nov. 28.
 Toy. J. Hinz. No. 1,406,733; Feb. 14.
 Toy. W. O. Hobbs. No. 1,435,845; Nov. 14.
 Toy. J. Holanowski. No. 1,418,936; June 6.
 Toy. M. B. Houghton. No. 1,421,234; June 27.
 Toy. H. E. House. No. 1,416,029; May 16.
 Toy. O. N. Howerton and E. Starbuck. No. 1,412,015; Apr. 4.
 Toy. G. W. Hughey. No. 1,426,646; Aug. 22.
 Toy. L. E. Iselle. No. 1,433,889; Oct. 31.
 Toy. H. Jensen. No. 1,410,188; Mar. 21.
 Toy. B. P. Johnson and R. Schroeder. No. 1,430,811; Oct. 3.
 Toy. E. F. Juergens. No. 1,421,694; July 4.
 Toy. G. A. King. No. 1,423,566; July 25.
 Toy. J. P. Koller. No. 1,426,482; Aug. 22.
 Toy. H. R. Larsen. No. 1,425,869; Aug. 15.
 Toy. N. Larson. No. 1,437,320; Nov. 28.
 Toy. D. Levinson. No. 1,425,107; Aug. 8.
 Toy. H. Manes. No. 1,404,132; Jan. 17.
 Toy. L. Martocci-Pisculli. No. 1,422,775; July 11.
 Toy. J. Mosansky. No. 1,439,634; Dec. 19.
 Toy. H. Nordmark. No. 1,415,682; May 9.
 Toy. T. Odarka. No. 1,429,761; Sept. 19.
 Toy. L. Orussa. No. 1,421,985; July 4.
 Toy. H. Reich. No. 1,417,860; May 30.
 Toy. J. F. Reynolds and A. P. Worthington. No. 1,433,098; Oct. 24.
 Toy. T. M. Samour. No. 1,419,690; June 13.
 Toy. A. C. and H. B. Schloth. No. 1,422,789; July 11.
 Toy. E. G. Schreyer. No. 1,423,035; July 18.
 Toy. E. G. Schreyer and C. Hewson. No. 1,408,037; Feb. 28.
 Toy. J. and H. Shapiro. No. 1,423,819; July 25.
 Toy. J. F. Sharretts. No. 1,413,294; Apr. 18.
 Toy. E. B. Smith. No. 1,434,255; Oct. 31.
 Toy. G. E. Smith. No. 1,407,093; Feb. 21.
 Toy. O. Smith. No. 1,420,584; June 20.
 Toy. W. C. Stanke. No. 1,429,789; Sept. 19.
 Toy. E. H. Tunley. No. 1,438,796; Dec. 12.
 Toy. A. R. Visitacion. No. 1,420,505; June 20.
 Toy. A. Vogt. No. 1,417,958; May 30.
 Toy. E. B. Warner. No. 1,411,944; Apr. 4.
 Toy. H. E. Williams. No. 1,408,670; Mar. 7.
 Toy. M. R. Williams. No. 1,420,597; June 20.
 Toy adding machine. A. E. Larson. No. 1,414,655; May 2.
 Toy, Aerial. B. K. Hauck. No. 1,408,001; Feb. 28.
 Toy, Aerial. A. B. Mouradian. No. 1,410,709; Mar. 28.
 Toy, Aerial spinning. W. M. Bradley. No. 1,413,316; Apr. 18.
 Toy aeroplane. A. D. Baehr. No. 1,420,805; June 27.
 Toy, Aeroplane. M. Dykas. No. 1,403,595; Jan. 17.
 Toy aeroplane. J. O. Howard. Nos. 1,420,193-4; June 20.
 Toy aeroplane. C. B. Robinson. No. 1,402,965; Jan. 10.
 Toy aeroplane. A. Z. Thomas. No. 1,418,849; June 6.
 Toy, Aeroplane. B. Tomkay. No. 1,412,906; Apr. 18.
 Toy aeroplane. J. C. Van Etten. No. 1,421,621; July 4.
 Toy aeroplane. H. M. Watts. No. 1,421,631; July 4.
 Toy aeroplane. H. D. Wells. No. 1,430,606; Oct. 3.
 Toy airplane. M. Palmer. No. 1,412,418; Apr. 11.
 Toy airship. B. B. Keith. No. 1,427,396; Aug. 29.
 Toy amusement apparatus. A. Hetzner. No. 1,431,398; Oct. 10.
 Toy amusement wheel. F. T. Harlan. No. 1,413,850; Apr. 25.
 Toy and carousel, Mounted combination. B. Zsarnay. No. 1,425,737; Aug. 15.
 Toy and covering therefor. H. Dykman. No. 1,437,467; Dec. 5.
 Toy animal. A. Gund. No. 1,438,108; Dec. 5.
 Toy animal, Flexible. W. W. Holland. No. 1,436,258; Nov. 21.
 Toy arrow. A. D. Adriance. No. 1,423,551; July 25.
 Toy automobile. J. T. Peters. No. 1,432,893; Oct. 24.
 Toy balloons, Reel for. H. H. Davis. No. 1,436,241; Nov. 21.
 Toy balloons, Semiautomatic filling device for. O. S. King. No. 1,431,817; Oct. 10.
 Toy, Basket-ball. K. Bensch. No. 1,433,335; Oct. 24.
 Toy bed. F. M. Hoover. No. 1,437,941; Dec. 5.
 Toy bed, Folding. W. H. Storey. No. 1,407,234; Feb. 21.
 Toy binding machine. P. Alexander, Jr. No. 1,419,096; June 6.
 Toy blocks, Educational. W. M. Rasely. No. 1,403,196; Jan. 10.
 Toy boat. M. Hanna. No. 1,407,410; Feb. 21.
 Toy boat. H. C. Ives. No. 1,409,549; Mar. 14.
 Toy building block. H. Purdy. No. 1,424,376; Aug. 1.
 Toy building block. A. C. Rader. No. 1,420,748; June 27.
 Toy building blocks. W. A. Gruenberg. No. 1,436,710; Nov. 28.
 Toy building construction. A. C. Gilbert. No. 1,426,376; Aug. 22.
 Toy building construction. S. A. Metcalfe. No. 1,426,087; Aug. 15.
 Toy calculator. R. A. Stevenson. No. 1,438,144; Dec. 5.
 Toy cannon. P. Peterson. No. 1,414,827; May 2.
 Toy cannon. E. E. Sturk. No. 1,432,802; Oct. 24.
 Toy car. F. C. Bauer. No. 1,416,775; May 23.
 Toy car or coach. J. S. Swanson. No. 1,410,774; Mar. 28.
 Toy, Cardboard. T. Mathews. No. 1,403,515; Jan. 17.
 Toy circus. L. M. Latta. No. 1,405,047; Jan. 31.
 Toy circus. H. A. Vaughan. No. 1,429,382; Sept. 19.
 Toy, Constructional. P. S. Fowler. No. 1,436,492; Nov. 21.
 Toy, Constructional. J. L. L. Roquefort-Villeneuve. No. 1,428,496; Sept. 5.
 Toy crane. G. Zahorsky. No. 1,404,254; Jan. 24.
 Toy dynamos, Armature brush holder for electric. J. L. Cowen. No. 1,405,497; Feb. 7.
 Toy, Educational. J. M. Brandvein. No. 1,414,857; May 2.
 Toy electric railway. H. E. Lindig. No. 1,418,151; May 30.
 Toy electric railways, Connector for. A. Frohne. No. 1,402,756; Jan. 10.
 Toy, Figure. J. P. Brace. No. 1,413,958; Apr. 25.
 Toy, Figure. M. A. Brewer. No. 1,403,382; Jan. 10.
 Toy, Figure. W. Buornat. No. 1,414,501; May 2.
 Toy, Figure. M. J. Duff. No. 1,416,624; May 16.
 Toy, Figure. J. C. Lackey. No. 1,423,618; July 25.
 Toy, Figure. H. N. J. Linder. No. 1,424,659; Aug. 1.
 Toy, Figure. P. S. H. Newell. No. 1,428,182; Sept. 5.
 Toy figure. K. H. Rogers. No. 1,409,411; Mar. 14.
 Toy, Figure. E. F. Thornton. No. 1,432,641; Oct. 17.
 Toy-figure group. J. A. Taylor. No. 1,434,930; Nov. 7.

- Toy, Figure wheeled. J. W. Barnhart. No. 1,424,437; Aug. 1.
- Toy, Figure wheeled. R. C. Hartleb and T. J. Levey. No. 1,403,776; Jan. 17.
- Toy, Figure wheeled. W. J. Hoffmann. No. 1,429,345; Sept. 19.
- Toy, Figure wheeled. W. W. Leyrer. No. 1,411,737; Apr. 4.
- Toy, Figure wheeled. A. J. Lynch. No. 1,433,832; Oct. 31.
- Toy, Figure wheeled. J. Mazur. No. 1,414,887; May 2.
- Toy, Figure wheeled. A. L. Wheeldon. No. 1,439,592; Dec. 19.
- Toy firearm. E. B. Andes. No. 1,437,879; Dec. 5.
- Toy, Flying. G. A. Gillen. No. 1,419,041; June 6.
- Toy, Flying. A. L. Salvo. No. 1,420,449; June 20.
- Toy flying machine. R. Genovese. No. 1,415,333; May 9.
- Toy for round games. E. B. G. Fahman. No. 1,438,908; Dec. 12.
- Toy furniture. C. A. Vossberg. No. 1,431,607; Oct. 10.
- Toy gun. J. G. Akers. No. 1,434,726; Nov. 7.
- Toy gun. S. Lander. No. 1,417,392; May 23.
- Toy gun. J. J. Szope. No. 1,403,719; Jan. 17.
- Toy gun. B. T. Williams. No. 1,421,334; June 27.
- Toy horse, Convertible. T. Burgess. No. 1,431,214; Oct. 10.
- Toy horse propelled by the rider. T. Cowburn. No. 1,418,626; June 6.
- Toy house. F. J. Varnuska. No. 1,425,425; Aug. 8.
- Toy house. A. F. Wegener. No. 1,428,405; Sept. 5.
- Toy house, Collapsible. G. J. Hanson. No. 1,429,871; Sept. 19.
- Toy-house construction. A. H. Bergmann. No. 1,425,166; Aug. 8.
- Toy, Inflatable. H. W. Franklin. No. 1,413,978; Apr. 25.
- Toy insect gun, Mechanical. C. E. Goodwin. No. 1,425,249; Aug. 8.
- Toy knitting machine. L. G. Egger. No. 1,414,869; May 2.
- Toy machine gun. A. W. Savage. No. 1,419,646; June 13.
- Toy machine gun. J. B. Van Doren. No. 1,422,392; July 11.
- Toy, Mechanical. L. V. Aronson. No. 1,420,072; June 20.
- Toy, Mechanical. B. F. Bain. No. 1,404,728; Jan. 31.
- Toy, Mechanical. P. Dorozynski. No. 1,434,329; Oct. 31.
- Toy, Mechanical. J. Dymnicki. No. 1,427,789; Sept. 5.
- Toy, Mechanical. J. V. Irenius. No. 1,429,738; Sept. 19.
- Toy, Mechanical. P. T. Jackson and G. F. Pickett. No. 1,427,295; Aug. 29.
- Toy, Mechanical. W. Jakubiec. No. 1,427,296; Aug. 29.
- Toy, Mechanical. I. G. Nicks. No. 1,437,990; Dec. 5.
- Toy, Mechanical. D. N. Stewart and J. L. Williams. No. 1,407,825; Feb. 28.
- Toy, Mechanical. T. M. Vaughan. No. 1,410,429; Mar. 21.
- Toy, Mechanical dancing. T. M. Vaughan. No. 1,407,451; Feb. 21.
- Toy motor vehicle. F. A. Nauts. No. 1,407,379; Feb. 28.
- Toy, Musical. J. Bartolowsky. No. 1,417,019; May 23.
- Toy, Musical. M. Kaufman. No. 1,420,109; June 20.
- Toy, Musical. E. W. Klein. No. 1,437,317; Nov. 28.
- Toy, Musical. R. J. Malloy and W. F. Beatty. No. 1,437,604; Dec. 5.
- Toy, Musical. F. Michalick. No. 1,417,343; May 23.
- Toy, Musical. P. H. Murphey. No. 1,434,910; Nov. 7.
- Toy, Musical. G. E. Terranova. No. 1,414,446; May 2.
- Toy of felt, Seamless head and part of. M. Franco. No. 1,407,649; Feb. 21.
- Toy operated by gramophones, Mechanical. H. J. Hastings and C. S. Smith. No. 1,424,015; July 25.
- Toy, Optical. H. W. Akroyd. No. 1,419,657; June 13.
- Toy or game. C. F. Waite. No. 1,436,221; Nov. 21.
- Toy piano. G. E. Roberts. No. 1,423,024; July 18.
- Toy picture exhibitor. R. J. O'Toole. No. 1,433,564; Oct. 31.
- Toy pistol. O. G. Amlee. No. 1,424,432; Aug. 1.
- Toy pistol. C. A. Bailey. No. 1,432,148; Oct. 17.
- Toy pistol. H. Bregman. No. 1,436,855; Nov. 28.
- Toy pistol. S. B. Brown. No. 1,438,017; Dec. 5.
- Toy pistol. A. C. Jonassen. Nos. 1,430,812-3; Oct. 3.
- Toy pistol. C. G. Palmer. No. 1,407,166; Feb. 21.
- Toy pistol. R. E. Reardon. No. 1,439,023; Dec. 19.
- Toy pistol. A. W. Weeden. No. 1,434,668; Nov. 7.
- Toy power machine. A. Sliworsky and P. Dorozynski. No. 1,408,412; Feb. 28.
- Toy Punch and Judy show. T. Mathews. No. 1,419,976; June 20.
- Toy railroad-gate set. C. W. Wirth. No. 1,415,753; May 9.
- Toy railway, Gravity. A. E. Jones. No. 1,417,071; May 25.
- Toy riding animal. L. Kroher. No. 1,440,088; Dec. 26.
- Toy rocker. S. L. Macdonald. No. 1,438,449; Dec. 12.
- Toy, Rocking. C. E. Morris. No. 1,414,785; May 2.
- Toy, Sand. G. J. Genung and W. L. Welsh. No. 1,417,512; May 30.
- Toy, Sand. G. A. Kehl. No. 1,425,865; Aug. 15.
- Toy, Sand. C. C. Muldner, jr. No. 1,429,684; Sept. 19.
- Toy, Sand. H. A. Schulke. No. 1,426,014; Aug. 15.
- Toy semaphore, Electrically-operated. H. O. Wessel. No. 1,427,881; Sept. 5.
- Toy shooting gallery. J. Keckeis. No. 1,415,365; May 9.
- Toy shooting gallery. J. H. Nelson. No. 1,412,625; Apr. 11.
- Toy small arm. C. W. Beiser. No. 1,406,820; Feb. 14.
- Toy smoking device. J. C. Wilson. No. 1,411,146; Mar. 28.
- Toy soldier. J. G. Dietrich. No. 1,437,134; Nov. 28.
- Toy, Sounding. J. H. Brett. No. 1,440,053; Dec. 26.
- Toy, Sounding. D. Calarco. No. 1,413,454; Apr. 18.
- Toy, Sounding. J. R. Kidney. No. 1,419,632; June 13.
- Toy, Sounding. G. L. Rollins. No. 1,404,894; Jan. 31.
- Toy, Sounding. P. C. Schmidt. No. 1,418,401; June 6.
- Toy, Sounding wheeled. C. H. Avery. No. 1,432,520; Oct. 17.
- Toy, Sparking. L. V. Aronson. No. 1,422,075; July 11.
- Toy sprinkler. E. G. Hofmann. No. 1,422,862; July 18.
- Toy steam engine. E. Friz. No. 1,413,218; Apr. 18.
- Toy, Structural. H. W. Graves. No. 1,433,273; Oct. 24.
- Toy, Submarine. A. L. Fierlein. No. 1,402,155; Jan. 3.
- Toy submarine. E. R. Wilson and P. H. Best. No. 1,427,669; Aug. 29.
- Toy target. C. L. Templeton. No. 1,418,339; June 6.
- Toy telephone. J. Rentscher. No. 1,426,504; Aug. 22.
- Toy telephone. C. M. Watrous. No. 1,419,902; June 13.
- Toy top. F. L. Lindstrom. No. 1,428,106; Sept. 5.
- Toy torpedoes, Method and apparatus for charging. C. Macchia. No. 1,427,906; Sept. 5.
- Toy, Traveling. J. Torres-Garcia. No. 1,427,657; Aug. 29.
- Toy, Trundling. K. A. Affeck. No. 1,437,388; Dec. 5.
- Toy, Trundling. J. Herman. No. 1,432,697; Oct. 17.
- Toy vehicle. J. W. Dougherty. No. 1,420,808; June 20.
- Toy vehicle. J. H. Fredrich and C. Bock. No. 1,426,171; Aug. 15.
- Toy vehicle. W. L. Hoge. No. 1,414,950; May 2.
- Toy vehicle. F. H. Miller. No. 1,402,636; Jan. 3.
- Toy vehicle. J. J. Williams. No. 1,412,381; Apr. 11.
- Toy vehicle, Rocking. C. D. Marlowe. No. 1,414,368; May 2.
- Toy wagon. B. M. Huff. No. 1,418,647; June 6.
- Toy, Walking. I. A. Rommer. No. 1,414,210; Apr. 25.
- Toy, Wheeled. M. N. Faulk. No. 1,424,396; Aug. 1.
- Toy, Wheeled. G. A. McCreary. No. 1,417,190; May 23.
- Toy, Wheeled. C. L. Wiggin. No. 1,413,510; Apr. 18.
- Toy, Whirligig. G. W. Mosher. No. 1,419,402; June 13.
- Toys and other articles, Walking mechanism for. C. J. Harvey. No. 1,430,371; Sept. 26.
- Toys, Device for producing sparks for. K. Arnold. No. 1,415,763; May 9.
- Trace hook. J. A. Gardner. No. 1,426,176; Aug. 15.
- Tracing device. J. N. Meyers. No. 1,421,975; July 4.
- Tracing the routes of warships and merchant vessels, Apparatus for. M. E. A. Baule. No. 1,433,595; Oct. 31.
- Track. G. Kunkle. No. 1,404,127; Jan. 17.
- Track appliances, Operating stand for. S. W. Hayes. No. 1,406,557; Feb. 14.
- Track-bolt wrench. R. J. McKee. No. 1,437,602; Dec. 5.
- Track brace. W. Dunn. No. 1,422,425; July 11.
- Track cleaning device. O. J. Olson. No. 1,416,231; May 16.
- Track clearer. A. Grigas. No. 1,403,316; Jan. 10.
- Track connection, Overhead. A. H. Neller. No. 1,419,684; June 13.
- Track construction. D. C. Monahan. No. 1,438,456; Dec. 12.
- Track construction. W. W. Wheeler. No. 1,404,414; Jan. 24.
- Track device. J. S. Adams. No. 1,438,205; Dec. 12.
- Track diagram device, Illuminated. F. D. Morehart. No. 1,402,639; Jan. 3.
- Track drain. W. T. O'Donnell. No. 1,408,134; Feb. 28.
- Track-drilling machine. E. A. Everett. No. 1,408,872; Mar. 7.
- Track-elevating mechanism. F. E. Troutman. No. 1,411,315; Apr. 4.
- Track, Endless. V. Dutkiewicz and C. Isambert. No. 1,420,531; June 20.
- Track, Endless. F. B. Sapp. No. 1,411,302; Apr. 4.
- Track for moving structures, Cog. R. E. Sheal. No. 1,435,341; Nov. 14.
- Track gauge. O. D. Gwinn. No. 1,405,113; Jan. 31.
- Track gauge and level. H. Matoba. No. 1,410,491; Mar. 21.
- Track gauge and level. J. T. Meldrum. No. 1,413,416; Apr. 18.
- Track, Highway. C. T. Eldredge. No. 1,403,943; Jan. 17.
- Track, Highway. C. T. Eldredge. No. 1,413,839; Apr. 25.
- Track layer, Flexible rotary. P. J. Dehetre. No. 1,439,298; Dec. 19.
- Track line, Overhead. W. L. Barton. No. 1,425,827; Aug. 15.
- Track-lining jack. F. Vogel. (Reissue.) No. 15,484; Oct. 31.
- Track link, Frictionless. R. T. Curtis. No. 1,404,740; Jan. 31.
- Track oiler. F. W. Wallace. No. 1,436,837; Nov. 28.
- Track, Portable. J. C. Brian. No. 1,410,055; Mar. 21.
- Track rails, Anchoring means for. G. F. A. Ochs. No. 1,408,391; Feb. 28.
- Track sander. C. O. Burton. No. 1,425,575; Aug. 15.
- Track sander. A. T. Kuehner. No. 1,410,684; Mar. 28.
- Track-sanding device. T. J. Burrell. No. 1,426,627; Aug. 22.
- Track sanders, Air nozzle for. E. E. Bradley. (Re-issue.) No. 15,451; Sept. 12.
- Track, Self-shifting. H. J. Benton. No. 1,421,387; July 4.
- Track-spraying apparatus. J. Nicholson. No. 1,419,686; June 13.

Alphabetical list of inventions—Continued.

- Track, Suspended two-rail. N. Krump. No. 1,420,112; June 20.
- Track switch. A. C. Myers. No. 1,403,053; Jan. 10.
- Track switch. J. Paige. No. 1,423,965; July 25.
- Track switch, Automatic. R. R. Scoggan. No. 1,418,978; June 6.
- Track switch lever. T. Fitzgibbon. No. 1,412,395; Apr. 11.
- Track-switch-tripping mechanism. J. P. Skartchsearis. No. 1,430,412; Sept. 26.
- Tracks in place, Means for securing overhead. E. J. G. Phillips. No. 1,422,473; July 11.
- Tracks, Tool for aligning. M. Uno. No. 1,416,999; May 23.
- Traction and antiskid device. J. Rowe. No. 1,420,149; June 20.
- Traction band. B. H. Ashby. No. 1,419,533; June 13.
- Traction band. S. S. Fuller. No. 1,431,517; Oct. 10.
- Traction chain for tractors. O. C. Reyoum and F. A. Putnam. No. 1,409,577; Mar. 14.
- Traction coupling. J. C. Reuse. No. 1,422,129; July 11.
- Traction device. A. C. Beech. No. 1,413,891; Apr. 25.
- Traction device. H. B. Enos. No. 1,432,167; Oct. 17.
- Traction device. I. F. Kepler. No. 1,410,760; Mar. 28.
- Traction device. A. Scotti. No. 1,416,237; May 16.
- Traction drive wheels, Mounting for. E. B. McCartney. No. 1,418,948; June 6.
- Traction engine. D. P. Davies. No. 1,402,922; Jan. 10.
- Traction engine. V. Peone. No. 1,416,379; May 16.
- Traction engine. A. W. Porter. No. 1,419,689; June 13.
- Traction engines and other purposes, Endless track or belt or chain tightening mechanism for. J. G. Leyner. No. 1,419,156; June 13.
- Traction-increasing device. B. E. Denson. No. 1,430,291; Sept. 26.
- Traction lug. J. A. Bentz. No. 1,436,229; Nov. 21.
- Traction lug. F. M. Fichten. No. 1,416,806; May 23.
- Traction lug. W. Levy. No. 1,403,610; Jan. 17.
- Traction lug. W. Levy. No. 1,423,568; July 25.
- Traction machine. E. R. Beeman. No. 1,419,605; June 13.
- Traction machine. H. and L. Nilson. No. 1,430,835; Oct. 3.
- Traction machines, Steering-post support for. J. Mader. No. 1,417,270; May 23.
- Traction machines, Transmission casing for. H. and L. Nilson. No. 1,415,606; May 9.
- Traction mat. B. H. Ehringer. No. 1,412,048; Apr. 11.
- Traction mechanism. I. H. Athey. No. 1,435,788; Nov. 14.
- Traction mechanism, Multipedal. C. E. Stahl. No. 1,402,186; Jan. 3.
- Traction-power system. R. Vosbrink. No. 1,409,625; Mar. 14.
- Traction shoe. J. T. Peters. No. 1,430,751; Oct. 3.
- Traction shoe. P. P. Vescevi. No. 1,438,148; Dec. 5.
- Traction tread. T. H. Eburne. No. 1,432,984; Oct. 24.
- Traction vehicles, Lining for. E. C. Unser. No. 1,419,085; June 6.
- Traction wheel. C. Alles. No. 1,408,238; Feb. 28.
- Traction wheel. R. R. Downie. No. 1,430,801; Oct. 3.
- Traction wheel. L. B. Gobel. No. 1,411,692; Apr. 4.
- Traction wheel. A. W. Graham. No. 1,410,672; Mar. 28.
- Traction wheel. E. E. Hans. No. 1,407,153; Feb. 21.
- Traction wheel. G. L. Hempy. No. 1,404,392; Jan. 24.
- Traction wheel. J. I. Hoke. No. 1,425,258; Aug. 8.
- Traction wheel. H. W. Kardell. No. 1,408,090; Feb. 28.
- Traction wheel. J. Krabill. No. 1,403,790; Jan. 17.
- Traction wheel. J. E. Olivier. No. 1,404,051; Jan. 17.
- Traction wheel. H. Partridge. No. 1,427,167; Aug. 29.
- Traction wheel. U. Pedroarena and G. Hoffman. No. 1,425,334; Aug. 8.
- Traction wheel. C. A. Psilander and W. M. Henderson. No. 1,418,971; June 6.
- Traction wheel. A. Scotti. No. 1,420,871; June 27.
- Traction wheel. L. E. Slauson. No. 1,439,847; Dec. 26.
- Traction wheel. F. P. Steele. No. 1,440,183; Dec. 26.
- Traction wheel. A. Tolsdorf and M. C. Rusch. No. 1,431,342; Oct. 10.
- Traction-wheel lug. T. J. Hruby. No. 1,406,562; Feb. 14.
- Traction-wheel tread. H. B. Turner. No. 1,413,204; Apr. 18.
- Traction wheels and jack shafts, Gear drive for. C. Owens. No. 1,405,430; Feb. 7.
- Traction wheels, Sanding device for. G. B. Schou. No. 1,439,129; Dec. 19.
- Tractor. F. C. Austin. No. 1,402,134; Jan. 3.
- Tractor. W. R. Baillard. No. 1,435,910; Nov. 21.
- Tractor. H. H. Bates. No. 1,406,332; Feb. 14.
- Tractor. H. H. Bates. No. 1,436,376; Nov. 21.
- Tractor. C. F. Brooks. No. 1,433,257; Oct. 24.
- Tractor. A. E. Cain. No. 1,405,897; Feb. 7.
- Tractor. E. S. Cameron. No. 1,434,199; Oct. 31.
- Tractor. F. F. Chandler and H. G. Myers. No. 1,439,066; Dec. 19.
- Tractor. J. M. Denning. (Reissue.) No. 15,420; July 25.
- Tractor. H. N. Edens. No. 1,432,446; Oct. 17.
- Tractor. R. J. Folse and F. L. Hecker. No. 1,428,584; Sept. 12.
- Tractor. L. M. Gardiner. No. 1,422,558; July 11.
- Tractor. G. W. Geilcar. No. 1,436,088; Nov. 21.
- Tractor. O. L. Gilliland. No. 1,436,651; Nov. 28.
- Tractor. H. W. Gough. No. 1,438,035; Dec. 5.
- Tractor. E. C. Hammond and C. F. Nelson. No. 1,403,407; Jan. 10.
- Tractor. G. O. Hodge. No. 1,436,442; Nov. 21.
- Tractor. V. Ivarson. No. 1,426,070; Aug. 15.
- Tractor. J. Jandasek. No. 1,415,356; May 9.
- Tractor. G. Kletke. No. 1,412,944; Apr. 18.
- Tractor. A. S. Krotz. No. 1,431,311; Oct. 10.
- Tractor. J. W. Lambert. No. 1,423,227; July 18.
- Tractor. O. L. Lewis. No. 1,403,259; Jan. 10.
- Tractor. J. G. Leyner. No. 1,424,493; Aug. 1.
- Tractor. H. Lindner. No. 1,427,399; Aug. 29.
- Tractor. A. J. McLaws. No. 1,410,488; Mar. 21.
- Tractor. J. I. McMullen. No. 1,421,270; June 27.
- Tractor. J. M. Meyers. No. 1,417,193; May 23.
- Tractor. L. Nilson. No. 1,424,177; Aug. 1.
- Tractor. G. H. Nobbs. No. 1,406,754; Feb. 14.
- Tractor. F. C. Olin. No. 1,423,962; July 25.
- Tractor. J. N. Parker. No. 1,430,251; Sept. 26.
- Tractor. E. A. Patch. No. 1,423,394; Sept. 5.
- Tractor. J. F. M. Patitz. No. 1,419,113; June 6.
- Tractor. C. B. Post. No. 1,403,563; Jan. 17.
- Tractor. A. D. Ray. No. 1,416,753; May 23.
- Tractor. H. C. Reid. No. 1,422,375; July 11.
- Tractor. J. C. Ross. No. 1,402,093; Jan. 3.
- Tractor. J. C. Ross. No. 1,402,095; Jan. 3.
- Tractor. A. M. Schlager. No. 1,416,127; May 16.
- Tractor. R. E. Shelton. No. 1,430,693; Oct. 3.
- Tractor. W. A. Sorg. No. 1,439,920; Dec. 26.
- Tractor. R. L. Tolson. (Reissue.) No. 15,308; Mar. 14.
- Tractor. E. Wertenberger. No. 1,421,635; July 4.
- Tractor. J. C. Westmont. No. 1,424,224; Aug. 1.
- Tractor. E. E. Wickersham. No. 1,407,972; Feb. 28.
- Tractor. W. G. Wilms. No. 1,416,539; May 16.
- Tractor. F. D. Wilson. No. 1,439,045; Dec. 19.
- Tractor. J. Young. No. 1,407,243; Feb. 21.
- Tractor. P. K. Zieche. No. 1,426,699; Aug. 22.
- Tractor. G. J. Ziegler. No. 1,424,128; July 25.
- Tractor, Agricultural. L. C. Muret. No. 1,412,366; Apr. 11.
- Tractor, Agricultural. C. B. and D. Stecher. No. 1,431,192; Oct. 10.
- Tractor and plowing attachment therefor. P. A. Reinhold. No. 1,423,736; July 25.
- Tractor and trailer coupling mechanism. C. H. Land, Jr. No. 1,408,101; Feb. 28.
- Tractor attachment. A. A. Sunde. No. 1,418,181; May 30.
- Tractor attachment. E. G. Wroughton. No. 1,420,174; June 20.
- Tractor attachment, Spring-mounted. A. E. Cook and T. Van Tuyl. No. 1,417,799; May 30.
- Tractor-belt link. E. G. Cox. No. 1,413,099; Apr. 18.
- Tractor cabs, Dustproofing and cooling. R. E. Fuller. No. 1,416,813; May 23.
- Tractor, Chain track. E. E. Wickersham. No. 1,413,148; Apr. 18.
- Tractor cleat. C. Robnett. No. 1,422,377; July 11.
- Tractor control. E. A. Johnston. No. 1,419,264; June 13.
- Tractor control. F. A. McDaniels. No. 1,413,414; Apr. 18.
- Tractor control, Extension. H. B. and E. F. Pyle. No. 1,433,742; Oct. 31.
- Tractor-controlling means. O. L. Oakes. No. 1,414,988; May 2.
- Tractor-controlling mechanism. A. L. Keltner. No. 1,434,389; Nov. 7.
- Tractor coupling. A. Wilde. No. 1,423,785; July 25.
- Tractor coupling. A. York. No. 1,427,709; Aug. 29.
- Tractor draft rig. W. D. F. Igney. No. 1,419,119; June 6.
- Tractor drawbar. H. J. Case. No. 1,414,457; May 2.
- Tractor-drawn machines, Steering device for. B. Douglass. No. 1,420,185; June 20.
- Tractor drive gearing. H. P. Polaski and V. A. Van Horn. No. 1,405,159; Jan. 31.
- Tractor driving and mechanism therefor. C. N. and F. C. Beal. No. 1,423,642; July 25.
- Tractor-driving mechanism. J. C. F. Dick. No. 1,423,758; July 25.
- Tractor driving wheel, Self-cleaning. J. M. Meyers. No. 1,434,354; Oct. 31.
- Tractor, etc., drawbar. G. H. Dyer. No. 1,405,906; Feb. 7.
- Tractor excavator. O. S. Sandberg. No. 1,407,486; Feb. 21.
- Tractor, Farm. L. M. Gardiner. No. 1,409,165; Mar. 14.
- Tractor, Farm. J. M. Meyers. No. 1,428,854; Sept. 12.
- Tractor, Farm. C. Murnane. No. 1,406,209; Feb. 14.
- Tractor, Farm. E. W. Taber. No. 1,423,046; July 18.
- Tractor fender. F. A. Holmes. No. 1,405,216; Jan. 31.
- Tractor, Four-wheel-drive. S. Blodgett. No. 1,416,329; May 16.
- Tractor-frame suspension. E. E. Wickersham. No. 1,407,973; Feb. 28.
- Tractor-frame suspension. E. E. Wickersham. Nos. 1,429,473-4; Sept. 19.
- Tractor frames, Flexible mounting for. C. T. Penton. No. 1,425,687; Aug. 15.
- Tractor, Garden. R. P. Hicks. No. 1,428,231; Sept. 5.
- Tractor, Garden. F. A. and R. D. Valentine. No. 1,429,178; Sept. 12.
- Tractor gearing. G. W. Dunham. No. 1,419,240; June 13.
- Tractor gearing. J. B. Foote and G. T. Strite. No. 1,420,995; June 27.
- Tractor guide. F. J. Anderson. No. 1,419,909; June 20.

- Tractor guide. D. E. Ekiss, A. D., L. A., and M. A. Freeland. No. 1,402,851; Jan. 1.
- Tractor guide. J. M. Kroeker. No. 1,439,558; Dec. 19.
- Tractor, Hand. W. R. Fremersdorf. No. 1,435,222; Nov. 14.
- Tractor harrow. A. L. Pollard. No. 1,409,569; Mar. 14.
- Tractor having four steering driving wheels. E. Schneider. No. 1,422,380; July 11.
- Tractor hitch. F. M. Blain. No. 1,435,373; Nov. 14.
- Tractor hitch. F. Brown. No. 1,418,228; May 30.
- Tractor hitch. M. O. Chaffee. No. 1,427,066; Aug. 22.
- Tractor hitch. F. P. Dederling. No. 1,407,843; Feb. 28.
- Tractor hitch. D. F. Geiger. No. 1,417,373; May 23.
- Tractor hitch. M. M. Knowles and J. N. Bates. No. 1,417,335; May 23.
- Tractor hitch. O. B. Skonnord. No. 1,423,164; July 18.
- Tractor hitch. L. S. Wright. No. 1,407,365; Feb. 21.
- Tractor hitch, Adjustable. W. B. Heenan. No. 1,405,916; Feb. 7.
- Tractor link. W. S. McKee. No. 1,418,316; June 6.
- Tractor lug. M. Kretschmer. No. 1,420,712; June 27.
- Tractor lug. N. N. Matthews. No. 1,406,749; Feb. 14.
- Tractor main frame and suspension. E. E. Wickersham. No. 1,429,475; Sept. 19.
- Tractor mechanism. G. L. Ertz. No. 1,438,228; Dec. 12.
- Tractor, Motor. E. Grubler. No. 1,422,438; July 11.
- Tractor, Motor. E. R. Pelling. No. 1,412,419; Apr. 11.
- Tractor, Motor. E. R. Pelling and V. A. Mattick. No. 1,412,132; Apr. 11.
- Tractor motor, Fluid. S. C. Sladden. No. 1,425,292; Aug. 8.
- Tractor performance, Calculator for. A. R. Squyer. No. 1,429,463; Sept. 19.
- Tractor platform. J. W. Wright. No. 1,426,938; Aug. 22.
- Tractor plow implement. Z. Dominguez. No. 1,430,219; Sept. 26.
- Tractor, Power-operated. G. O. Hodge. No. 1,403,080; Jan. 10.
- Tractor, Push. G. Mattheis. No. 1,435,076; Nov. 7.
- Tractor rim for hard surfaces, Demountable. M. Sanderfeld. No. 1,426,511; Aug. 22.
- Tractor, Self-laying-track. E. E. Wickersham. No. 1,413,147; Apr. 18.
- Tractor steering and controlling device. H. P. Hamer. No. 1,402,600; Jan. 3.
- Tractor-track obliterater. R. H. Griswold and E. J. Powell. No. 1,422,967; July 18.
- Tractor tracks, Link for. R. L. Savage. No. 1,417,693; May 30.
- Tractor train. H. W. Jonkhoff. No. 1,436,658; Nov. 28.
- Tractor transmission mechanism. L. H. Keim. No. 1,431,959; Oct. 17.
- Tractor, truck, and other heavy-duty engines, Cranking mechanism for. P. A. Kinzie. No. 1,424,485; Aug. 1.
- Tractor, Two-way. W. L. Pope. No. 1,409,772; Mar. 14.
- Tractor wheel. M. E. Austin and E. B. Hoffman. No. 1,405,252; Jan. 31.
- Tractor wheel. O. Boyer. No. 1,412,999; Apr. 18.
- Tractor wheel. F. Evans. No. 1,405,823; Feb. 7.
- Tractor wheel. E. J. Farkas. No. 1,416,949; May 23.
- Tractor wheel. E. Feuillette. No. 1,422,952; July 18.
- Tractor wheel. W. M. Henderson. No. 1,419,050; June 6.
- Tractor wheel. A. J. Higgs. No. 1,439,311; Dec. 19.
- Tractor wheel. W. S. Holland. No. 1,402,611; Jan. 3.
- Tractor wheel. H. G. Howard. No. 1,424,098; July 25.
- Tractor wheel. H. L. Humphrey. No. 1,408,885; Mar. 7.
- Tractor wheel. M. V. Jarecki. No. 1,424,909; Aug. 8.
- Tractor wheel. A. S. Krotz. No. 1,437,849; Dec. 5.
- Tractor wheel. E. S. Salyards. No. 1,405,804; Feb. 7.
- Tractor wheel. A. Scotti. No. 1,420,870; June 27.
- Tractor wheel. L. E. Slauson. No. 1,433,569; Oct. 31.
- Tractor wheel. W. G. Trethewey. No. 1,415,279; May 9.
- Tractor wheel. T. C. Whitehead. No. 1,431,203; Oct. 10.
- Tractor wheel and driving means. P. E. Guthrie. No. 1,434,006; Oct. 31.
- Tractor wheel and scraper. F. P. Arnold. No. 1,406,809; Feb. 14.
- Tractor-wheel attachment. S. A. Garland. No. 1,408,285; Feb. 28.
- Tractor-wheel cleat. E. H. Bass. No. 1,417,020; May 23.
- Tractor wheel, Farm-. J. De Camp. No. 1,427,095; Aug. 29.
- Tractor-wheel weight. J. B. Walker. No. 1,423,054; July 18.
- Tractor wheels, Detachable extension rim for. F. W. Willig. No. 1,414,537; May 2.
- Tractor wheels, Grouser for. V. Rapattoni. No. 1,403,195; Jan. 10.
- Tractor wheels, Grouser for. J. F. Roberts. No. 1,427,418; Aug. 29.
- Tractor with trailer and connection. E. Courant and E. Aubry. No. 1,439,294; Dec. 19.
- Tractors and road graders, Heavy-duty safety switch for large. A. B. Hulsebos and G. Den Besten. No. 1,402,862; Jan. 10.
- Tractors and trailers, Means for coupling. M. Leytens. No. 1,416,217; May 16.
- Tractors, Attachment for. T. C. Whitehead. No. 1,429,989; Sept. 26.
- Tractors, Attachment for self-starting. F. Gaebel. No. 1,408,286; Feb. 28.
- Tractors, Automatic clutch release for. A. B. Coffin. No. 1,438,096; Dec. 5.
- Tractors, Automatic gravity ignition cut-out for. C. Chisman. No. 1,414,932; May 2.
- Tractors, Automatic stop attachment for. E. J. Klink and F. Mueller. No. 1,437,522; Dec. 5.
- Tractors, Automatically-operating oiling mechanism for the interior motor-driven parts of. J. G. Leyner. No. 1,424,495; Aug. 1.
- Tractors, Binder hitch for. G. B. Higdon. No. 1,402,608; Jan. 3.
- Tractors, Clutch control for Fordson. W. B. Shorter. No. 1,416,893; May 23.
- Tractors, Clutch holddown for Fordson. A. Christensen. No. 1,407,732; Feb. 28.
- Tractors, Clutch lever for Samson. F. W. Hokamp. No. 1,440,296; Dec. 26.
- Tractors, Combination tongue and seat support for. A. D. Cole. No. 1,416,171; May 16.
- Tractors, Controlling device for. E. N. Smith. No. 1,408,231; Feb. 28.
- Tractors, Controlling mechanism for. H. J. Virgeus. No. 1,407,606; Feb. 21.
- Tractors, Cultivator attachment for. O. F. Heer. No. 1,429,875; Sept. 19.
- Tractors, Detachable lug for. E. Goldberger. No. 1,402,856; Jan. 10.
- Tractors, Dolly for separating Fordson. C. E. Koster. No. 1,435,860; Nov. 14.
- Tractors, Draft attachment for. F. D. Hall. No. 1,408,590; Mar. 7.
- Tractors, Draft device for. T. E. McCollum. No. 1,408,107; Feb. 28.
- Tractors, Drawbar coupling for. P. J. Edmonds. No. 1,424,631; Aug. 1.
- Tractors, Drawbar coupling for. W. A. Mueller. No. 1,430,922; Oct. 3.
- Tractors, Drawbar for. G. Zimmer. No. 1,408,057; Feb. 28.
- Tractors, Drawbar hitch for. F. M. Blain. No. 1,414,770; May 2.
- Tractors, Drive wheel for. H. J. Bolinski. No. 1,431,362; Oct. 10.
- Tractors, Driver's foot rest for. H. O. Mainzinger. No. 1,404,454; Jan. 24.
- Tractors, Driving attachment for. D. H. Gilson. No. 1,421,076; June 27.
- Tractors, Extension drive for. W. M. Hampton. No. 1,411,916; Apr. 4.
- Tractors for agricultural purposes, Attachment for converting motor-driven chassis into. J. Hodgson. No. 1,422,709; July 11.
- Tractors, Gearing for. J. B. Foote and G. T. Strite. No. 1,433,994; Oct. 31.
- Tractors, Governor for. U. Sorensen. No. 1,407,957; Feb. 28.
- Tractors, Governor for Fordson. J. E. Wiesbrock. No. 1,411,545; Apr. 4.
- Tractors, Grouser attachment for. J. W. Livermore. No. 1,418,585; June 6.
- Tractors, Harrow and harrow attachment for. H. C. Christensen and W. Starrett. No. 1,407,635; Feb. 21.
- Tractors, Harrow attachment for. W. O. Long. No. 1,412,124; Apr. 11.
- Tractors, Implement-steering attachment for. A. J. Silva. No. 1,416,989; May 23.
- Tractors, Line control and gear shift for. F. M. Reeves. No. 1,439,759; Dec. 26.
- Tractors, Line drive for. E. G. Staude. No. 1,418,843; June 6.
- Tractors, Loading attachment for. A. D. Cole and D. F. Geiger. No. 1,439,948; Dec. 26.
- Tractors, Main frame and suspension for. E. F. Norelius. No. 1,429,449; Sept. 19.
- Tractors, Means for steering. W. K. Monroe. No. 1,404,468; Jan. 24.
- Tractors, Power-lift attachment for. E. R. Burtnett. No. 1,419,014; June 6.
- Tractors, Push-bar attachment for. H. G. Irwin. No. 1,420,106; June 20.
- Tractors, Safety attachment for. P. O. Trahan. No. 1,409,043; Mar. 7.
- Tractors, Safety control for. F. V. Hall. No. 1,414,082; Apr. 25.
- Tractors, Safety device for. E. S. Nichols. No. 1,436,191; Nov. 21.
- Tractors, Sawing attachment for. S. A. Wooldrik. No. 1,416,923; May 23.
- Tractors, Self-steering attachment for. L. J. Mathson. No. 1,426,491; Aug. 22.
- Tractors, Steering attachment for Fordson. R. M. Grupe and W. L. Quest. No. 1,413,726; Apr. 25.
- Tractors, Steering device and brake for. O. L. Lewis. No. 1,403,258; Jan. 10.
- Tractors, Steering device for. E. C. Dunlap. No. 1,426,556; Aug. 22.
- Tractors, Steering mechanism for. E. N. Smith and H. H. Dillinger. No. 1,408,416; Feb. 28.
- Tractors, Track-supporting frame for. W. C. Matteson. No. 1,411,448; Apr. 4.
- Tractors, Unit construction for. G. W. Dunham. No. 1,417,720; May 30.
- Tractors, Universal hitch for garden. A. G. Linek. No. 1,403,969; Jan. 17.

Alphabetical list of inventions—Continued.

- Tractors, Water pump for. R. L. Beck. No. 1,406,524; Feb. 14.
- Tractors, Windlass attachment for. W. Turnbull. No. 1,417,784; May 30.
- Traffic barrier, Disappearing. E. J. Mallin. No. 1,439,318; Dec. 19.
- Traffic controlling and regulating system for street crossings. F. W. Simpson. No. 1,433,487; Oct. 24.
- Traffic-controlling system, Railway-. L. V. Lewis. No. 1,405,527; Feb. 7.
- Traffic director. O. M. Hatcher. No. 1,439,101; Dec. 19.
- Traffic indicator. R. N. Riblet. No. 1,420,750; June 27.
- Traffic indicator, Dirigible. H. L. Carey. No. 1,431,932; Oct. 17.
- Traffic, Means for determining routes, distances, and rates for. G. W. R. Harriman. No. 1,408,455; Mar. 7.
- Traffic post. G. A. Wood. No. 1,402,465; Jan. 3.
- Traffic post, Self-righting. G. A. Wood. No. 1,435,363; Nov. 14.
- Traffic purposes, Stopping indicator for. M. Admiraal. No. 1,437,081; Nov. 28.
- Traffic signal. H. R. Astridge. No. 1,439,598; Dec. 19.
- Traffic signal. J. D. Coward. No. 1,422,179; July 11.
- Traffic signal. R. D. Douglass. No. 1,417,809; May 30.
- Traffic signal. G. W. Ewing. No. 1,418,141; May 30.
- Traffic signal. J. Fry. No. 1,405,997; Feb. 7.
- Traffic signal. J. A. Hamberg. No. 1,430,901; Oct. 3.
- Traffic signal. J. C. Horney. No. 1,413,915; Apr. 25.
- Traffic signal. T. Jones. No. 1,415,362; May 9.
- Traffic signal. W. A. Koch. No. 1,422,210; July 11.
- Traffic signal. E. Letourneau. No. 1,426,489; Aug. 22.
- Traffic signal. E. C. Marshall. No. 1,420,124; June 20.
- Traffic signal. J. R. Naylor. No. 1,431,414; Oct. 10.
- Traffic signal. L. J. Orendorf. No. 1,405,861; Feb. 7.
- Traffic signal. P. Skanse. No. 1,430,695; Oct. 3.
- Traffic-signaling device. H. G. Lee. No. 1,437,762; Dec. 5.
- Trailer. R. H. De Launty. No. 1,413,105; Apr. 18.
- Trailer. J. M. Eadie. No. 1,432,980; Oct. 24.
- Trailer. A. Feigelson. No. 1,439,880; Dec. 26.
- Trailer. S. Hatashita and J. G. Winsor. No. 1,409,294; Mar. 14.
- Trailer. C. S. Hoffman. No. 1,429,734; Sept. 19.
- Trailer. H. Kapferer. No. 1,421,492; July 4.
- Trailer. C. H. Land, Jr. No. 1,408,102; Feb. 28.
- Trailer. C. H. Land, Jr. No. 1,409,733; Mar. 14.
- Trailer. S. E. Liedbrand. No. 1,417,846; May 30.
- Trailer, Bottom-dump. E. G. Ledyard. No. 1,433,895; Oct. 31.
- Trailer brake. A. Arato. No. 1,424,273; Aug. 1.
- Trailer-brake-controlling device. G. S. Lane. No. 1,412,009; Apr. 4.
- Trailer, Camping. A. R. Curtis. No. 1,407,259; Feb. 21.
- Trailer-connecting-head construction. A. P. Lee. No. 1,412,120; Apr. 11.
- Trailer connection. S. E. Liedbrand. No. 1,424,496; Aug. 1.
- Trailer coupling. T. Weber. No. 1,426,134; Aug. 15.
- Trailer couplings, Pintle hook for. C. G. Clement. No. 1,408,501; Mar. 7.
- Trailer-dumping mechanism. L. M. Spencer. No. 1,424,424; Aug. 1.
- Trailer-dumping mechanism. L. M. Spencer. No. 1,424,426; Aug. 1.
- Trailer leg support. W. Barber. No. 1,415,008; May 9.
- Trailer, Reversible. A. P. Lee. No. 1,406,658; Feb. 14.
- Trailer-steering device. R. H. De Launty. No. 1,422,040; July 4.
- Trailers, Coupling device for. M. Mason. No. 1,419,398; June 13.
- Trailers, Steering gear and draw bar for. D. A. New Comer. No. 1,403,442; Jan. 10.
- Trailers, Steering gear for. A. Arbetblatt. No. 1,424,129; July 25.
- Trailers to motor vehicles, Means for coupling. W. E. Ferris. No. 1,433,265; Oct. 24.
- Train, Articulated. S. B. Way. No. 1,412,075; Apr. 11.
- Train control. I. Butler. No. 1,414,860; May 2.
- Train-control apparatus. E. H. Werner. No. 1,438,279; Dec. 12.
- Train-control apparatus, Valve mechanism for automatic. R. L. Miller. No. 1,424,420; Aug. 1.
- Train control, Automatic. F. C. Graf and M. J. Zwosta. No. 1,412,816; Apr. 11.
- Train-control device, Automatic. J. P. Angus. No. 1,423,385; July 18.
- Train-control device, Automatic. H. G. Davis. No. 1,428,511; Sept. 5.
- Train-control mechanism. H. E. Jamison. No. 1,416,470; May 16.
- Train-control system. E. J. Blake. No. 1,404,428; Jan. 24.
- Train-control system. E. J. Blake. No. 1,421,762; July 4.
- Train-control system. W. W. Macfarlane. No. 1,431,747; Oct. 10.
- Train-control system, Automatic. F. L. Dodgson. No. 1,416,622; May 16.
- Train-control system, Automatic. W. K. Howe. Nos. 1,405,376-7; Jan. 31.
- Train-control system, Automatic. W. K. Howe. No. 1,407,065; Feb. 21.
- Train-control system, Automatic. W. K. Howe. No. 1,411,571; Apr. 4.
- Train-control system, Automatic. W. K. Howe. No. 1,421,005; June 27.
- Train-control system, Automatic. A. M. Thompson. No. 1,437,326; Nov. 28.
- Train-control systems, Track circuit for. C. W. Brewster. No. 1,425,315; Aug. 8.
- Train-controlling mechanism. C. H. Quarles. No. 1,439,482; Dec. 19.
- Train-controlling mechanism. W. Reynolds. No. 1,436,112; Nov. 21.
- Train-controlling mechanism. A. E. and M. Snyder. No. 1,437,159; Nov. 28.
- Train, Jointed coaster. F. A. Church. No. 1,431,567; Oct. 10.
- Train-lighting-generator drive. D. C. Wilson. No. 1,428,309; Sept. 5.
- Train marker. E. A. Blanton. No. 1,434,191; Oct. 31.
- Train-operated gate. H. C. McConnell. No. 1,421,512; July 4.
- Train-pipe connector, Automatic. B. J. Minnier and H. F. Bickel. No. 1,424,582; Aug. 1.
- Train-pipe connector, Automatic. J. V. Robinson. (Re-issue.) No. 15,400; July 4.
- Train-pipe coupling. C. A. Bluhm. No. 1,427,716; Aug. 29.
- Train-pipe coupling, Automatic. L. Le Baron and A. C. Harrell. No. 1,407,665; Feb. 21.
- Train-pipe coupling, Automatic. H. N. Moore. No. 1,408,378; Feb. 28.
- Train-speed-control device, Automatic. C. C. Farmer. No. 1,422,844; July 18.
- Train stop. W. E. Higgins and G. S. Mann. No. 1,424,645; Aug. 1.
- Train stop and control. H. B. Spencer. No. 1,414,596; May 2.
- Train stop, Automatic. H. C. Graham. No. 1,421,078; June 27.
- Train stop, Automatic. C. A. Kissel. No. 1,429,885; Sept. 19.
- Train stop, Automatic. T. M. Riggles. No. 1,426,321; Aug. 15.
- Train-stop means, Automatic. W. J. Wirt. No. 1,406,797; Feb. 14.
- Train-stop mechanism. G. P. Horan. No. 1,437,308; Nov. 28.
- Train-stop mechanism, Automatic. R. Marcy. No. 1,402,367; Jan. 3.
- Train stopping and speed-controlling mechanism. F. C. Williams. No. 1,435,776; Nov. 14.
- Train stopping and speed-controlling mechanism, Combined. F. C. Williams. No. 1,435,775; Nov. 14.
- Train-stopping apparatus. W. B. Murray. No. 1,431,025; Oct. 3.
- Train-stopping apparatus. J. F. Webb, jr. No. 1,433,582; Oct. 31.
- Train-stopping apparatus, Automatic. V. W. Nye and E. M. Amthor. No. 1,408,025; Feb. 28.
- Train-stopping device. M. C. Foster. No. 1,407,742; Feb. 28.
- Train-stopping device. C. W. Marden. No. 1,416,108; May 16.
- Train-stopping device, Automatic. R. B. Boyle. No. 1,424,980; Aug. 8.
- Train-stopping means, Automatic. G. Chromy. No. 1,423,396; July 18.
- Train-stopping mechanism. P. P. E. Richards. No. 1,432,908; Oct. 24.
- Training apparatus. E. Willmann. No. 1,436,846; Nov. 28.
- Trains, Automatic system for stopping. Y. Burgess. No. 1,411,078; Mar. 28.
- Trains, Compressed-air continuous brake system for. D. Božić. No. 1,420,237; June 20.
- Trains, Counting wheel for intermittent-gear. R. C. Bradley. No. 1,404,340; Jan. 24.
- Trains, Device for controlling railway. E. Rodolause. No. 1,406,902; Feb. 14.
- Trains, Safety stop for. G. E. Frazier. No. 1,410,744; Mar. 28.
- Tramcars, Automatic trolley retriever for electric. A. Bowen. No. 1,436,936; Nov. 28.
- Tramway combined cut-through and curve switch, Overhead. C. T. Judd. No. 1,435,608; Nov. 14.
- Tramway rail having removable tread. F. Adams. No. 1,418,509; June 6.
- Tramways and light railways, Welded joint for. G. Wallace. No. 1,420,614; June 20.
- Tramways and railways, Automatic block apparatus for electric. D. Samaja. No. 1,424,217; Aug. 1.
- Trammel. W. Douglas. No. 1,422,345; July 11.
- Trammel point. H. S. Grace. No. 1,427,376; Aug. 29.
- Tramper. J. M. Peerson. No. 1,428,609; Sept. 12.
- Transfer mechanism. Z. P. Candee. No. 1,426,039; Aug. 15.
- Transfer mechanism. J. L. Ferguson. No. 1,423,096; July 18.
- Transfer mechanism. W. S. Kinsley. No. 1,414,690; May 2.
- Transfer mechanism. L. D. Soubier. No. 1,435,263; Nov. 14.
- Transfer reel. P. D. Frazer. No. 1,422,954; July 18.
- Transfer-slip-holder device. L. R. Piper. No. 1,433,970; Oct. 31.
- Transfer system. W. T. Donnelly. No. 1,440,065; Dec. 26.

- Transferring mechanism. G. Ball. No. 1,434,731; Nov. 7.
Transformation. W. E. Nolan. No. 1,424,845; Aug. 8.
Transformer. J. C. Armor. No. 1,402,037; Jan. 3.
Transformer. R. V. Bingay. No. 1,421,899; July 4.
Transformer. G. H. Cole. No. 1,433,701; Oct. 31.
Transformer. W. Fondiller. No. 1,420,989; June 27.
Transformer. S. Horelick. No. 1,420,103; June 20.
Transformer casing. L. A. Carter. No. 1,429,927; Sept. 26.
Transformer construction. R. V. Bingay. No. 1,425,504; Aug. 15.
Transformer, Electric. E. Vedovelli. No. 1,433,578; Oct. 31.
Transformer, Polyphase. S. Horelick. No. 1,425,091; Aug. 8.
Transformer, Regulating. A. L. Atherton. No. 1,435,195; Nov. 14.
Transformer tank. L. G. McClintock. No. 1,408,215; Feb. 28.
Transformer-tank base. R. V. Bingay. No. 1,403,478; Jan. 17.
Transformer, Thermoelectric. H. J. Murray. No. 1,406,576; Feb. 14.
Transformers, Coil-supporting means for. A. W. Thompson. No. 1,435,265; Nov. 14.
Transformers, Cooling coils for. A. W. Thompson. No. 1,430,769; Oct. 3.
Transformers, Core structure for. V. E. Alden. No. 1,404,826; Jan. 31.
Transformers, Laminated magnetic circuit structure for. C. H. Thordarson. No. 1,406,245; Feb. 14.
Transformers of small power, Manufacturing electric. C. M. E. Priestley. No. 1,427,324; Aug. 29.
Transformers, Two-way impedance equalizer for. R. S. Hoyt. No. 1,430,808; Oct. 3.
Transforming apparatus, Rotary. E. F. W. Alexanderson. No. 1,420,398; June 20.
Transforming effects, Method of and apparatus for producing. R. M. Craig. No. 1,428,008; Sept. 5.
Transit. I. L. Bancalari. No. 1,439,218; Dec. 19.
Transits, Attachment for. J. P. Thompson. No. 1,432,309; Oct. 17.
Translating circuit. J. R. Carson. No. 1,418,285; June 6.
Transmission. A. P. Armington. No. 1,412,157; Apr. 11.
Transmission. H. C. Baines. No. 1,421,375; July 4.
Transmission. H. Busch. No. 1,405,272; Jan. 31.
Transmission. O. P. Miller. No. 1,427,223; Aug. 29.
Transmission. J. Parco. No. 1,425,214; Aug. 8.
Transmission. J. S. Smalley. No. 1,417,950; May 30.
Transmission and lining for the bands thereof. J. Galamb. No. 1,424,893; Aug. 8.
Transmission and speed-conversion mechanism. H. H. Suplee. No. 1,415,128; May 9.
Transmission apparatus. M. T. Voigt. No. 1,431,198; Oct. 10.
Transmission attachment. E. Camp and A. F. Schatzel. No. 1,433,176; Oct. 24.
Transmission band. W. J. Brownfield. No. 1,406,440; Feb. 14.
Transmission band. L. F. Crumley. No. 1,407,385; Feb. 21.
Transmission band. H. F. Hons, Jr. (Reissue). No. 15,271; Jan. 17.
Transmission-band lining. O. F. Kendall. No. 1,432,758; Oct. 24.
Transmission-band lining. L. L. Libby. No. 1,405,601; Feb. 7.
Transmission casing. W. F. Hudson. No. 1,425,094; Aug. 8.
Transmission channels, Means for signaling over multiplex. L. Espenschied and H. A. Affel. No. 1,428,155; Sept. 5.
Transmission control. W. Purcell. No. 1,413,133; Apr. 18.
Transmission control. E. M. Swain. No. 1,413,301; Apr. 18.
Transmission-controlling mechanism. J. E. Coffey. No. 1,402,939; Jan. 10.
Transmission-controlling mechanism. I. E. Coffey. (Reissue). No. 15,312; Mar. 21.
Transmission device. C. E. Davis. No. 1,430,799; Oct. 3.
Transmission device. S. S. Morton. No. 1,423,008; July 18.
Transmission device, Motion-. M. L. Parret. No. 1,415,690; May 9.
Transmission, Dual. M. A. Griffin. No. 1,416,285; May 16.
Transmission, Electrically-controlled. M. Taigman. No. 1,405,640; Feb. 7.
Transmission equalization arrangement. L. H. Darrow. No. 1,408,567; Mar. 7.
Transmission equalization arrangement. L. H. Darrow. No. 1,415,868; May 16.
Transmission equalization arrangement. W. E. Darrow. No. 1,403,544; Jan. 17.
Transmission equalization arrangement. A. U. Harper. No. 1,407,028; Feb. 21.
Transmission, Friction. W. Nagle. No. 1,428,898; Sept. 12.
Transmission-lever-locking device. A. M. Hamilton. No. 1,421,463; July 4.
Transmission lining. F. B. McIlroy. No. 1,406,049; Feb. 7.
Transmission lock. E. H. Baxter. No. 1,428,316; Sept. 5.
Transmission lock. C. L. Johnson. No. 1,408,888; Mar. 7.
Transmission means. E. Eucken. No. 1,430,305; Sept. 26.
Transmission mechanism. H. L. Applebaum. No. 1,413,563; Apr. 25.
Transmission mechanism. M. V. Brown. No. 1,429,323; Sept. 19.
Transmission mechanism. F. Cartlidge. No. 1,418,126; May 30.
Transmission mechanism. E. E. Cook. No. 1,433,071; Oct. 24.
Transmission mechanism. A. Curioni. No. 1,413,970; Apr. 25.
Transmission mechanism. T. S. Eastwick and S. Weiss. No. 1,432,983; Oct. 24.
Transmission mechanism. R. Grant and J. S. R. Rigby. No. 1,418,254; May 30.
Transmission mechanism. J. Habrie. No. 1,411,345; Apr. 4.
Transmission mechanism. B. M. W. Hansou. No. 1,439,414; Dec. 19.
Transmission mechanism. I. Hupp. No. 1,415,239; May 9.
Transmission mechanism. I. Hupp. No. 1,429,349; Sept. 19.
Transmission mechanism. L. H. Keim. No. 1,431,958; Oct. 17.
Transmission mechanism. L. H. Keim. No. 1,431,960; Oct. 17.
Transmission mechanism. L. H. Keim. No. 1,435,242; Nov. 14.
Transmission mechanism. C. L. Kubista and J. J. Kovar. No. 1,418,809; June 6.
Transmission mechanism. W. H. Long. No. 1,427,961; Sept. 5.
Transmission mechanism. J. E. Ovren. No. 1,436,817; Nov. 28.
Transmission mechanism. R. J. Reiser. No. 1,423,454; July 18.
Transmission mechanism. B. E. Richardson. No. 1,413,058; Apr. 18.
Transmission mechanism. J. Roth. No. 1,428,257; Sept. 5.
Transmission mechanism. C. Sang. No. 1,426,677; Aug. 22.
Transmission mechanism. F. E. Schoonmaker. No. 1,431,049; Oct. 3.
Transmission mechanism. J. Q. Sherman and A. W. Metzger. No. 1,419,174; June 13.
Transmission mechanism. W. C. Stevens. No. 1,410,423; Mar. 21.
Transmission mechanism. E. S. Stowers and J. W. Scott. No. 1,403,819; Jan. 17.
Transmission mechanism. L. E. Waterman, H. R. Traphagen, and H. L. Waterman. No. 1,429,986; Sept. 26.
Transmission mechanism. W. I. Wheeler. No. 1,422,510; July 11.
Transmission mechanism. P. B. Wolverton. No. 1,412,498; Apr. 11.
Transmission mechanism, Adjustable. G. G. Bayne. No. 1,415,512; May 9.
Transmission mechanism and differential gearing. N. C. Bement. No. 1,409,994; Mar. 21.
Transmission mechanism, Axle-driven. G. E. Hulse. No. 1,428,693; Sept. 12.
Transmission mechanism, Crank. C. H. Gill. No. 1,435,838; Nov. 14.
Transmission mechanism, Differential. G. C. Jett. No. 1,423,940; July 25.
Transmission mechanism, Friction. C. H. Gill. No. 1,410,747; Mar. 28.
Transmission mechanism, Friction. J. M. Worth. No. 1,404,676; Jan. 24.
Transmission mechanism, Gearless. L. C. Cattol. No. 1,421,908; July 4.
Transmission mechanism, Hydraulic. W. S. Weston. No. 1,420,798; June 27.
Transmission over lines of different electrical characteristics, Means for equalizing. G. K. Thompson. No. 1,415,907; May 16.
Transmission pedal. A. C. Miller. No. 1,410,495; Mar. 21.
Transmission, Planetary. J. E. Sugden. No. 1,410,424; Mar. 21.
Transmission-shifting mechanism. B. C. Zuhars and H. D. Clarke. No. 1,427,994; Sept. 5.
Transmission-spring compressor and holder. H. R. Downey. No. 1,433,944; Oct. 31.
Transmission switch. H. S. Hearn. No. 1,404,609; Jan. 24.
Transmission system. J. F. Baldwin, jr. No. 1,438,938; Dec. 19.
Transmission system. K. S. Johnson. No. 1,432,863; Oct. 24.
Transmission with repeaters, Two-way. J. Mills. No. 1,434,790; Nov. 7.
Transmissions, Oiling system for. W. Turnbull. No. 1,429,466; Sept. 19.
Transmitter. T. A. Edison. No. 1,425,183; Aug. 8.
Transmitter. J. B. Speed. No. 1,436,206; Nov. 21.
Transmitter, Call-box. A. Atherton. No. 1,416,594; May 16.
Transmitter, Impulse. R. H. Manson. No. 1,425,123; Aug. 8.
Transmitter, Signal. R. M. Hopkins. No. 1,406,865; Feb. 14.
Transmitters and vacuum-tube amplifiers, Connecting. I. B. Crandall. No. 1,422,837; July 18.
Transmitters or receivers, Method of and system for testing. H. D. Arnold and J. P. Minton. No. 1,426,807; Aug. 22.

Alphabetical list of inventions—Continued.

- Transmitters, Testing. R. R. Herrmann. No. 1,412,405; Apr. 11.
- Transmitting apparatus, Motion-. G. Lhermitte. No. 1,417,398; May 23.
- Transmitting device, Flexible. G. P. Luckey. No. 1,427,829; Sept. 5.
- Transom attachment. P. J. Nolan. No. 1,417,626; May 30.
- Transom, Ventilating. H. Z. Nabers. No. 1,403,054; Jan. 10.
- Transplanting device. H. E. Hanson. No. 1,425,588; Aug. 15.
- Transplanting device. J. F. Rowley. No. 1,431,185; Oct. 10.
- Transport and haulage, Aerial ropeway for. E. A. Derungs. No. 1,404,840; Jan. 31.
- Transport, Milk can for. N. J. Nielsen. No. 1,439,834; Dec. 26.
- Transportation apparatus, Electrically-operated. H. S. Putnam. No. 1,437,549; Dec. 5.
- Transportation apparatus, Loading and unloading mechanism for. H. S. Putnam. No. 1,437,550; Dec. 5.
- Transportation system. P. Sachs. No. 1,412,969; Apr. 18.
- Transportation system, Electric. E. E. Hawkins. No. 1,417,062; May 23.
- Transportation, System of. H. W. Kirchner. No. 1,414,516; May 2.
- Transportation, System of. P. Sachs. No. 1,412,890; Apr. 18.
- Transporting and impregnating material, Method of and apparatus for. J. J. Lyth. No. 1,403,126; Jan. 10.
- Transporting case. F. and H. Muster. No. 1,411,976; Apr. 4.
- Transporting device. F. Witte. No. 1,409,806; Mar. 14.
- Trap. See—
- Animal trap. Mole trap.
 - Ant trap. Mousetrap.
 - Automatic trap. Mouse and rat trap.
 - Bandit trap. Nonsiphon trap.
 - Bell trap. Rat trap.
 - Boll-weevil trap. Rodent trap.
 - Crab trap. Saccharine trap.
 - Fish trap. Sanitary trap.
 - Fluid trap. Scale trap.
 - Game trap. Sewer trap.
 - Gas trap. Steam trap.
 - Insect trap. Sucker-rod trap.
 - Lubricant trap.
- Trap. H. Borden. No. 1,412,651; Apr. 11.
- Trap. E. T. Dinkins. No. 1,420,823; June 27.
- Trap. J. A. Dorseth. No. 1,410,738; Mar. 28.
- Trap. G. Friess and R. Nass. No. 1,439,809; Dec. 26.
- Trap. G. M. Gould. No. 1,422,049; July 4.
- Trap. O. H. Harris. No. 1,404,606; Jan. 24.
- Trap. J. Hurley. No. 1,415,093; May 9.
- Trap. H. W. Justus. No. 1,427,600; Aug. 29.
- Trap. A. Kubickl. No. 1,425,023; Aug. 8.
- Trap. J. E. Lavine. No. 1,408,612; Mar. 7.
- Trap. G. F. Lynde. No. 1,407,697; Feb. 28.
- Trap. E. E. Mortimer. No. 1,418,603; June 6.
- Trap. M. J. Newman. No. 1,425,410; Aug. 8.
- Trap. S. P. Paetta. No. 1,421,298; June 27.
- Trap. H. Pierini. No. 1,420,384; June 20.
- Trap. J. A. Schmidt. No. 1,434,505; Nov. 7.
- Trap. T. R. Schuirmann. No. 1,406,091; Feb. 7.
- Trap. H. Thompson. No. 1,404,070; Jan. 17.
- Trap. J. P. Ullman. No. 1,436,833; Nov. 28.
- Trap. L. J. Wilson. No. 1,420,229; June 20.
- Trap. G. G. Wyskarko. No. 1,407,909; Feb. 28.
- Trap and screw cap therefor, Subfloor. B. R. Horner. No. 1,403,081; Jan. 10.
- Trap catch. T. L. Munroe. No. 1,416,737; May 23.
- Trapdoor opener and closer. S. M. Granger. No. 1,435,638; Nov. 14.
- Trap nest. W. N. McLagan. No. 1,430,457; Sept. 26.
- Trap nest. C. J. Williams. No. 1,419,340; June 13.
- Trap or clean-out cover. J. H. Owens. No. 1,413,236; Apr. 18.
- Trap or overflow jar. F. L. Shelor. No. 1,413,796; Apr. 25.
- Trap, Self-setting. J. J. Martin. No. 1,407,558; Feb. 21.
- Trap spring. H. S. Pratt. No. 1,409,773; Mar. 14.
- Trapping device. W. R. Frye. No. 1,431,648; Oct. 10.
- Traps, Device for holding. F. J. Byrne. No. 1,409,924; Mar. 21.
- Trash cutter. G. D. Luce. No. 1,419,158; June 13.
- Traveler, Ring. J. Hargreaves. No. 1,403,077; Jan. 10.
- Traveling bag, Self-opening. C. R. Waid. No. 1,413,079; Apr. 18.
- Traveling black. B. Boykin, jr. No. 1,424,075; July 25.
- Traveling crane. B. F. Fitch. No. 1,419,129; June 13.
- Traveling sprinkler. E. Zerweck. No. 1,418,047; May 30.
- Traverse mechanism. J. Clayton. No. 1,417,454; May 23.
- Trawlers, Fishing net for steam. K. Kuijper and H. Bakker. No. 1,434,292; Oct. 31.
- Tray. A. P. Geimer. No. 1,436,954; Nov. 28.
- Tray. M. Himmelfarb. No. 1,436,256; Nov. 21.
- Tray. F. Vavra. No. 1,411,943; Apr. 4.
- Tray and filling device, Church communion. W. J. Rainey. No. 1,416,126; May 16.
- Tray, Ash. I. A. Gay. No. 1,404,755; June 31.
- Tray, Ash. J. P. Griffin. (Reissue.) No. 15,361; May 23.
- Tray, Ash. C. W. Reasner. No. 1,418,737; June 6.
- Tray, Berry. O. O. Eaton. No. 1,409,335; Mar. 14.
- Tray, Compression. H. M. Carroll, Sr. No. 1,404,271; Jan. 24.
- Tray, Crumb. F. W. Drish. No. 1,407,053; Feb. 21.
- Tray elevator. S. Olson. No. 1,416,743; May 23.
- Tray, Filling. I. Wagemaker. No. 1,435,351; Nov. 14.
- Tray filling and leveling mechanism. G. H. Nuss and C. F. Heckel. No. 1,405,068; Jan. 31.
- Tray-flushing mechanism. E. B. Ayers. No. 1,431,770; Oct. 10.
- Tray, Fruit-drying. W. W. Watson. No. 1,408,666; Mar. 7.
- Traylike articles, Machine for aligning the flanges of. G. W. Case and J. W. Roberts. No. 1,421,280; Aug. 1.
- Tray-making machine. F. E. Kuster. No. 1,403,173; Jan. 10.
- Tray-making machine. F. E. Kuster. No. 1,436,266; Nov. 21.
- Tray or basket, Desk. N. A. Ochiltree. No. 1,408,026; Feb. 28.
- Tray, Return-chute recovery. C. A. Wendt. No. 1,406,593; Feb. 14.
- Tray, Screen-bottom bread-baking. G. Mueller. No. 1,408,766; Mar. 7.
- Tray-stacking machine. G. Matsushita. No. 1,427,490; Aug. 29.
- Tray-supporting device. A. D. Niemeyer. No. 1,436,601; Nov. 21.
- Trays, Machine for making reenforced box. O. P. Teeple. No. 1,439,850; Dec. 26.
- Tread. P. W. Dalrymple. (Reissue.) No. 15,458; Sept. 26.
- Tread, Armored wheel. E. S. Seavey. No. 1,424,524; Aug. 1.
- Tread, Detachable emergency. E. Williams. No. 1,402,987; Jan. 10.
- Tread, Nonslipping. T. H. Stanwood. No. 1,420,775; June 27.
- Tread surfaces, Lug for. N. C. Bement. No. 1,414,334; May 2.
- Treadle, Foot. N. Hansen. No. 1,431,114; Oct. 3.
- Treadle, Machine-controlling. H. Hubbell. No. 1,409,000; Mar. 7.
- Treating spent fuller's earth. C. I. Robinson. No. 1,403,193; Jan. 10.
- Treating substances, Apparatus for. C. R. Mabee. No. 1,420,647; June 27.
- Treatment for venereal diseases. W. E. Craig. No. 1,408,170; Feb. 28.
- Treatment table. J. V. McManis. No. 1,417,675; May 30.
- Treatment table. J. V. McManis. No. 1,427,004; Aug. 22.
- Tree. See—
- Doubletree. Single tree.
 - Shoe tree.
- Tree cavities with monolithic filling, Providing. J. F. McCarthy. No. 1,414,195; Apr. 25.
- Tree holder. G. B. Powers. No. 1,422,304; July 11.
- Tree protector. J. Paupa. No. 1,420,738; June 27.
- Tree protector. D. Williams. No. 1,415,134; May 9.
- Tree stand. E. C. Grenzsbach. No. 1,411,722; Apr. 4.
- Tree stay. E. U. Fowler. No. 1,407,139; Feb. 21.
- Trees and cutting of trunks, Device for guiding, supporting, and carrying an apparatus for felling of. A. O. M. Löfgren. No. 1,410,198; Mar. 21.
- Trees, Method and means for protecting. S. Hockridge. No. 1,425,257; Aug. 8.
- Trees, Training. W. O. Roy. No. 1,436,198; Nov. 21.
- Trees with dry sulphur, Device for dusting. C. A. Lang. No. 1,427,743; Aug. 29.
- Tremolo. O. O. Lewis. No. 1,426,749; Aug. 22.
- Trench-forming machine. T. K. White. No. 1,419,480; June 13.
- Trenching machine. J. J. Hammen. No. 1,411,018; Mar. 28.
- Trench machine. J. F. Reilly. Nos. 1,432,904-5; Oct. 24.
- Trench, Portable. M. Lopez. No. 1,417,613; May 30.
- Tristle, Foldable. S. W. Mueller. No. 1,411,805; Apr. 4.
- Tricycle. P. P. Simeon. No. 1,424,684; Aug. 1.
- Tricycle or three-wheel motor vehicle. E. Herds. No. 1,424,822; Aug. 8.
- Trimmer. See—
- Broom trimmer. Lawn-edge trimmer.
 - Corn trimmer. Lumber trimmer.
 - Finger-nail trimmer. Puttee trimmer.
 - Grass-edge trimmer. Tire trimmer.
- Trimming device. F. H. Grove. No. 1,424,012; July 25.
- Trimming device. E. McClenathen. No. 1,408,016; Feb. 28.
- Trimming knife. A. O. Weismann. No. 1,411,651; Apr. 4.
- Trimming machine. C. M. Brehm. No. 1,420,469; June 20.
- Trimming machine. L. J. Clayton. No. 1,412,338; Apr. 11.
- Trimming machine. F. H. Warren. No. 1,436,067; Nov. 21.
- Trimming-machine attachment. M. Poetzsch. No. 1,433,474; Oct. 24.
- Trimming machine, Lining. G. Boulton. No. 1,406,335; Feb. 14.

- Trimming machine, Lining-. M. W. White. No. 1,415,967; May 16.
- Trimming machines, Cutting block for. J. J. Halloran. No. 1,407,268; Feb. 21.
- Tripod and tripod clamp. G. A. Mitchell. No. 1,426,088; Aug. 15.
- Tripping device. W. M. Austin. No. 1,408,243; Feb. 28.
- Tripping device. C. B. Beyer. No. 1,416,161; May 16.
- Tripping device. B. McInnerney. No. 1,408,108; Feb. 28.
- Tripping mechanism. G. M. Johnson. No. 1,408,089; Feb. 28.
- Tritolyguanidin, Producing. R. V. Heuser. No. 1,437,419; Dec. 5.
- Trolley. W. E. Bee. No. 1,408,248; Feb. 28.
- Trolley. W. E. Bee and W. E. Simpson. No. 1,428,934; Sept. 12.
- Trolley. G. Bryar. No. 1,419,955; June 20.
- Trolley. W. P. Krause. No. 1,424,361; Aug. 1.
- Trolley. L. T. Outhier. No. 1,407,353; Feb. 21.
- Trolley. W. E. Simpson. No. 1,428,613; Sept. 12.
- Trolley. J. S. Townsend. No. 1,429,118; Sept. 12.
- Trolley. M. G. Wilson. No. 1,429,007; Sept. 12.
- Trolley-aligning harp. S. S. Matthes. No. 1,423,575; July 25.
- Trolley base. E. S. Lincoln and E. Larsson. No. 1,439,740; Dec. 26.
- Trolley catcher. P. N. Van Epp. No. 1,433,492; Oct. 24.
- Trolley clamp. W. Schaake. No. 1,430,594; Oct. 3.
- Trolley-conductor clamp. N. J. A. Wahlberg. No. 1,408,048; Feb. 28.
- Trolley construction. J. F. Healy. No. 1,409,173; Mar. 14.
- Trolley controller. C. W. Shanaberger. No. 1,437,780; Dec. 5.
- Trolley, Crane. R. J. Harry and C. S. Proudfoot. No. 1,430,009; Sept. 26.
- Trolley device. M. W. Manz and S. S. Matthes. No. 1,401,999; Jan. 3.
- Trolley frog. E. E. Rose. No. 1,406,285; Feb. 14.
- Trolley-frog approach. E. E. Rose. No. 1,406,286; Feb. 14.
- Trolley guard. G. G. Cooper. No. 1,416,398; May 16.
- Trolley guard. R. E. Harlowe. No. 1,414,274; Apr. 25.
- Trolley hanger. W. Schaake. No. 1,404,900; Jan. 31.
- Trolley harp. C. J. Dorrance. No. 1,424,716; Aug. 1.
- Trolley harp. W. E. Fields. No. 1,432,452; Oct. 17.
- Trolley harp. M. P. Enyeart. No. 1,419,365; June 13.
- Trolley harp. C. W. Oldenquist. No. 1,414,301; Apr. 25.
- Trolley harp. F. Thornton. No. 1,424,950; Aug. 8.
- Trolley harp. J. G. Vinson. No. 1,427,659; Aug. 29.
- Trolley harp, Flexible. C. J. Dorrance. No. 1,424,717; Aug. 1.
- Trolley head. E. B. Grace and W. J. Laffey. No. 1,411,998; Apr. 4.
- Trolley head. A. McKinnon. No. 1,438,251; Dec. 12.
- Trolley-line support. G. D. Slaymaker. No. 1,438,065; Dec. 5.
- Trolley pan. R. M. Robinson. No. 1,411,670; Apr. 4.
- Trolley, Pantograph. W. Schaake. No. 1,410,960; Mar. 28.
- Trolley, Pantograph. W. Schaake. No. 1,438,612; Dec. 12.
- Trolley plane, Monotrack. E. H. Palmer. No. 1,415,190; May 9.
- Trolley pole. J. A. Sanner. No. 1,430,686; Oct. 3.
- Trolley pole. W. Schaake. No. 1,431,984; Oct. 17.
- Trolley-pole adjuster. A. Petersen. No. 1,420,859; June 27.
- Trolley-pole head. W. T. Jones. No. 1,408,600; Mar. 7.
- Trolley-pole head. V. Saccone. No. 1,417,945; May 30.
- Trolley poles, Attachment for. J. F. Healy. No. 1,409,376; Mar. 14.
- Trolley poles for electrically-propelled vehicles, Socket or base for. E. M. Munro. No. 1,420,131; June 20.
- Trolley poles, Lighting displaced. W. K. Dillard. No. 1,403,743; Jan. 17.
- Trolley reel. A. A. Thiele. No. 1,420,350; June 20.
- Trolley retriever. S. H. Springman. No. 1,405,348; Jan. 31.
- Trolley retriever. A. C. Van Hooydonk. No. 1,404,248; Jan. 24.
- Trolley shoe. J. Miller. No. 1,440,093; Dec. 26.
- Trolley shoe. H. A. Rhoads. No. 1,430,188; Sept. 26.
- Trolley shoe. J. L. Whittaker. No. 1,411,893; Apr. 4.
- Trolley shoe, Removable. W. G. Lamb. No. 1,402,076; Jan. 3.
- Trolley stabilizer. C. B. Branson. No. 1,408,860; Mar. 7.
- Trolley switch. A. Bogdanski. No. 1,438,690; Dec. 12.
- Trolley switches, Locking and operating device for. A. H. Reid. No. 1,414,303; Apr. 25.
- Trolley system. J. J. Stock and J. H. Smoot. No. 1,404,168; Jan. 17.
- Trolley track. E. J. G. Phillips. No. 1,433,647; Oct. 31.
- Trolley-track hanger. H. R. Butler. No. 1,411,234; Mar. 28.
- Trolley wheel. R. C. Kissinger. No. 1,418,579; June 6.
- Trolley wheel. N. L. Lieberman. No. 1,428,644; Sept. 12.
- Trolley wheel. E. S. Robinson and J. Bowers. No. 1,417,350; May 23.
- Trolley wheel. F. N. Russell. No. 1,418,833; June 6.
- Trolley wheel. E. J. Smothers, O. S. Banks, and J. Golobich. No. 1,404,664; Jan. 24.
- Trolley wheel. E. T. Thayer. No. 1,405,074; Jan. 31.
- Trolley wheel and frog. J. Kushnier. No. 1,434,293; Oct. 31.
- Trolley-wheel guard. W. Stasiak. No. 1,439,648; Dec. 19.
- Trolley-wheel harp. E. Baczenski. No. 1,406,812; Feb. 14.
- Trolley-wheel mount. G. O. Burwell and C. M. Kurtz. No. 1,415,987; May 16.
- Trolley wheels to trolley wires, Device for restoring. D. L. Chestnut. No. 1,414,548; May 2.
- Trolley-wire-splice runner. W. W. Terry. No. 1,431,340; Oct. 10.
- Trolley-wire splicer. N. K. Bowman. No. 1,403,837; Jan. 17.
- Trolley wire stretcher and splicer, Combination. D. R. Hunley. No. 1,421,481; July 4.
- Trolley wires and the like, Suspension for. G. W. Bower. No. 1,420,407; June 20.
- Trolling spoon. W. J. Eggleston. No. 1,425,951; Aug. 15.
- Trombone. J. F. S. Alschausky. No. 1,428,675; Sept. 12.
- Trough. R. A. Bagnell. No. 1,421,374; July 4.
- Trough. G. G. Bayne. No. 1,423,552; July 25.
- Trough. G. G. Bayne and J. C. Hoechnen. No. 1,418,516; June 6.
- Trough. W. C. Burrell. No. 1,432,051; Oct. 17.
- Trough. C. G. Naylor and G. F. Hauf. No. 1,424,371; Aug. 1.
- Trough. G. A. and A. F. Trachte. No. 1,433,048; Oct. 24.
- Trough, Clamp for soldering eaves. T. H. Willison. No. 1,440,196; Dec. 26.
- Trough, Feed. P. Kortenhoeven. No. 1,425,205; Aug. 8.
- Trough, Feeding and watering. E. C. Faust. No. 1,438,028; Dec. 5.
- Trough, Hog. N. A. Gibbons. No. 1,407,404; Feb. 21.
- Trough, Individual watering. W. A. Mcclough. No. 1,413,750; Apr. 25.
- Trough supports, Shank for eaves-. M. R. Berger. No. 1,429,482; Sept. 19.
- Trough, Water and feed. E. D. Davis. No. 1,410,536; Mar. 21.
- Trough, Watering. R. Judy. No. 1,422,986; July 18.
- Trouser support. W. Norman. No. 1,403,974; Jan. 17.
- Trousers. J. H. Barnett. No. 1,411,149; Mar. 28.
- Trousers. H. Broulder. No. 1,419,127; June 13.
- Trousers. F. Kalman. No. 1,418,578; June 6.
- Trousers and breeches, Combination riding. F. B. Hall. No. 1,405,114; Jan. 31.
- Trousers, Belt-retaining attachment for. T. A. Manning and A. A. Engel. No. 1,436,277; Nov. 21.
- Trousers clip. E. A. Arolan. No. 1,414,926; May 2.
- Trousers creaser and former. O. Pickelsimer. No. 1,406,891; Feb. 14.
- Trousers-creasing device. H. S. Willis. No. 1,409,633; Mar. 14.
- Trousers, Football. W. P. Whitley. No. 1,406,794; Feb. 14.
- Trousers pattern. A. J. Rose. No. 1,416,383; May 16.
- Trousers press. C. T. Ferguson. No. 1,428,769; Sept. 12.
- Trousers presser. D. D. Dewey and L. G. Sawdy. No. 1,420,822; June 27.
- Trousers protector. A. G. Lundquist. No. 1,404,987; Jan. 31.
- Trousers stretcher. J. Hren. No. 1,426,871; Aug. 22.
- Trousers stretcher and presser. I. Corbe. No. 1,428,274; Sept. 5.
- Trousers support. A. Rose. No. 1,423,684; July 25.
- Trousers supporter. W. M. McFarland. No. 1,421,514; July 4.
- Trousers supporter. R. S. Miller. No. 1,427,406; Aug. 29.
- Trousers-supporting device. L. T. Struck. No. 1,427,335; Aug. 29.
- Trousers-waistband construction. B. Tucker. No. 1,434,973; Nov. 7.
- Trousers, Waistband for. C. Thero. No. 1,429,800; Sept. 19.
- Trowel. J. H. F. Schulze. No. 1,409,789; Mar. 14.
- Trowel. W. M. Stout. No. 1,416,521; May 16.
- Truck. R. N. Allen and J. N. Todd. No. 1,437,212; Nov. 28.
- Truck. H. Barkmann and A. Kutscha. No. 1,436,428; Nov. 21.
- Truck. A. M. Barrett. Nos. 1,416,674-5; May 23.
- Truck. J. B. Baum. No. 1,424,438; Aug. 1.
- Truck. C. W. Cade. No. 1,431,630; Oct. 10.
- Truck. A. A. Clark. No. 1,428,004; Sept. 5.
- Truck. H. S. Corlett. No. 1,405,293; Jan. 31.
- Truck. G. L. Edwards. No. 1,431,383; Oct. 10.
- Truck. O. L. Engstrom and H. C. Nelson. No. 1,440,285; Dec. 26.
- Truck. W. Gakle. No. 1,437,971; Dec. 5.
- Truck. M. P. Holmes. No. 1,411,026; Mar. 28.
- Truck. G. F. Knowles. No. 1,406,462; Feb. 14.
- Truck. J. T. Lynch. No. 1,423,234; July 18.
- Truck. J. H. Mosel. No. 1,432,296; Oct. 17.
- Truck. R. F. Russell. No. 1,432,037; Oct. 17.
- Truck. H. B. Sabin. No. 1,438,334; Dec. 12.
- Truck. O. Schulz. No. 1,414,672; May 2.
- Trunk. W. Shull. No. 1,408,409; Feb. 28.
- Truck. W. J. Smith. No. 1,405,168; Jan. 31.
- Truck. G. L. Squire. No. 1,424,528; Aug. 1.
- Truck. W. H. Taylor. No. 1,407,235; Feb. 21.
- Truck. E. C. Treese. No. 1,439,020; Dec. 19.
- Truck. G. M. Turner. No. 1,434,572; Nov. 7.
- Truck. G. P. Wallstrom. No. 1,425,727; Aug. 15.
- Truck. A. Watson. No. 1,419,184; June 13.
- Truck and tractor attachment, Interchangeable. A. E. Cook and T. Van Tuijl. No. 1,417,796; May 30.
- Truck and wagon dump. R. K. Parent. No. 1,436,051; Nov. 21.

Alphabetical list of inventions—Continued.

- Truck and wagon dump, Combination. T. E. Britton. No. 1,420,078; June 20.
- Truck and workbench, Combined. F. D. Carre. No. 1,429,926; Sept. 26.
- Truck, Auto. A. P. Lee. No. 1,402,299; Jan. 3.
- Truck, Auto dump. G. H. Gee. No. 1,432,328; Oct. 17.
- Truck, Automobile. R. S. Clymer. No. 1,428,681; Sept. 12.
- Truck, Automobile. I. Johnson. No. 1,410,921; Mar. 28.
- Truck, Barrel. C. H. Stephenson. No. 1,430,698; Oct. 3.
- Truck, Basket. L. B. Hayes and V. W. Kemp. No. 1,424,819; Aug. 8.
- Truck body. R. S. Bolger. No. 1,439,790; Dec. 26.
- Truck body. R. V. Day. No. 1,438,813; Dec. 12.
- Truck body. E. S. Graham. No. 1,432,329; Oct. 17.
- Truck body. C. L. House. No. 1,418,929; June 6.
- Truck body. J. Ogren. No. 1,439,257; Dec. 19.
- Truck body, Extensible. J. T. McKinnon. No. 1,419,160; June 13.
- Truck-body lifting and dumping apparatus. H. S. Morton. No. 1,411,801; Apr. 4.
- Truck body, Motor. C. L. Jeanes. No. 1,434,705; Nov. 7.
- Truck bolster. A. J. Canfield and E. R. Viberg. No. 1,403,588; Jan. 17.
- Truck bolster. L. G. Miller. No. 1,436,188; Nov. 21.
- Truck brake or lock. J. O. Garrett. No. 1,420,999; June 27.
- Truck, Car. G. A. Anderson. Nos. 1,414,915-25; May 2.
- Truck, Car. J. Demarco. No. 1,428,764; Sept. 12.
- Truck, Car. B. W. Kadel. Nos. 1,414,956-63; May 2.
- Truck, Car. J. C. Ross. No. 1,406,287; Feb. 14.
- Truck, Car. A. G. Sandman. No. 1,410,516; Mar. 21.
- Truck, Car. J. T. Wallis. No. 1,404,671; Jan. 24.
- Truck, Car motor. H. M. Pfleger. No. 1,409,402; Mar. 14.
- Truck, Charging. D. E. Willard. No. 1,411,652; Apr. 4.
- Truck, Collapsible hand. M. E. Emery and W. J. Fleischauer. No. 1,400,838; Mar. 14.
- Truck, Combination floor and platform. H. G. Anthony. No. 1,414,163; Apr. 25.
- Truck-compensating mechanism. E. E. Wickersham. No. 1,407,970; Feb. 28.
- Truck connection, Center-pin. M. E. Shaver. No. 1,402,972; Jan. 10.
- Truck construction. K. F. Nystrom. No. 1,404,886; Jan. 31.
- Truck, Corn-sheller drag. A. W. Haase. No. 1,439,235; Dec. 19.
- Truck coupling. J. H. Cotton and W. L. Burner. No. 1,423,084; July 18.
- Truck, Crane. L. G. Howlett. No. 1,412,525; Apr. 11.
- Truck, Disk. E. E. Johannes and R. D. Dunkerton. No. 1,422,362; July 11.
- Truck, Distributing. H. W. Napier. No. 1,405,316; Jan. 31.
- Truck, Draftless. C. H. Copp. No. 1,438,901; Dec. 12.
- Truck drive, Reversible friction. M. P. Holmes. No. 1,435,903; Nov. 14.
- Truck, Dry-kiln. H. B. Gillette. No. 1,430,639; Oct. 3.
- Truck dump. I. N. Mark. No. 1,410,943; Mar. 28.
- Truck, Dump. R. McElDowney. No. 1,428,293; Sept. 5.
- Truck dump, Automatic. G. W. Hawkins. No. 1,409,853; Mar. 14.
- Truck dump, Motor-. C. B. Moffitt and E. Dau. No. 1,403,050; Jan. 10.
- Truck, Dumping. V. M. Haddon. No. 1,411,347; Apr. 4.
- Truck, Dumping. A. W. Herbst and C. C. J. Culmer. No. 1,420,315; June 20.
- Truck, Dumping. C. O. Hoxie. No. 1,436,173; Nov. 21.
- Truck, Dumping. R. D. Rogers. No. 1,429,974; Sept. 26.
- Truck, Dumping. O. M. Wick. No. 1,429,004; Sept. 12.
- Truck, Dumping. A. E. F. Wollbrandt. No. 1,410,862; Mar. 28.
- Truck, Dumping. G. A. Wood. No. 1,406,131; Feb. 7.
- Truck, Dumping. F. Zardinoni. No. 1,429,820; Sept. 19.
- Truck-dumping device. E. A. Busacker. No. 1,403,587; Jan. 17.
- Truck, Electric. C. T. Westlake and K. S. Howard. No. 1,424,788; Aug. 8.
- Truck, Electrical industrial. W. H. Wright. No. 1,404,419; Jan. 24.
- Truck, Elevating. A. E. Cooney. No. 1,403,486; Jan. 17.
- Truck, Elevating. F. L. Eidmann. No. 1,415,926; May 16.
- Truck, Elevating. A. D. Lightner and E. Holmes. No. 1,410,103; Mar. 21.
- Truck, Elevating. D. Munro. No. 1,431,023; Oct. 3.
- Truck, Elevator. W. C. Carr. No. 1,407,124; Feb. 21.
- Truck, Engine. H. H. Vaughan. No. 1,434,272; Oct. 31.
- Truck, Equalizing. J. A. Lamont. No. 1,431,239; Oct. 10.
- Truck equalizing arrangement, Six-wheel-. J. A. Lamont and L. Richardson. No. 1,437,979; Dec. 5.
- Truck for handling loaded-goods platforms and working the same. D. L. Monro. No. 1,436,665; Nov. 28.
- Truck for harvesters and binders, Lead. E. Severson. No. 1,418,889; June 6.
- Truck for locomotives, Trailer. W. E. Woodard. No. 1,423,895; July 25.
- Truck for railway vehicles. W. E. Woodard. No. 1,429,008; Sept. 12.
- Truck for transferring concrete. G. H. MacLean. No. 1,407,698; Feb. 28.
- Truck for waste material. C. H. Norton. (Reissue.) No. 1,5356; May 16.
- Truck frame. M. L. Kerr. No. 1,435,480; Nov. 14.
- Truck frame. W. R. Rogers. No. 1,438,664; Dec. 12.
- Truck frame. K. L. Van Auken. No. 1,410,969; Mar. 28.
- Truck frame and lever support. G. S. Chiles. No. 1,411,954; Apr. 4.
- Truck, Hand. Z. Adams. No. 1,431,861; Oct. 10.
- Truck, Hand. E. Allen. No. 1,429,918; Sept. 26.
- Truck, Hand. C. O. Carlson. No. 1,422,254; July 11.
- Truck, Hand. W. F. Irrgang. No. 1,429,432; Sept. 19.
- Truck, Hand. E. L. Peterson. No. 1,424,938; Aug. 8.
- Truck, Hand. H. Volkman. No. 1,416,427; May 16.
- Truck hoist. W. G. Mayer. No. 1,418,387; June 6.
- Truck, Hoisting. V. E. Beagle. No. 1,437,583; Dec. 5.
- Truck, Industrial. C. E. Cochran. (Reissue.) No. 1,5497; Nov. 28.
- Truck, Industrial. H. T. Pleines. No. 1,432,299; Oct. 17.
- Truck, Jack. F. Donley. No. 1,403,851; Jan. 17.
- Truck jack. I. A. Weaver and R. G. Stoehr. No. 1,424,962; Aug. 8.
- Truck, Laundry. G. C. Thuesen and E. C. Strickland. No. 1,421,110; June 27.
- Truck-lever connecting rod. R. E. McGahey. No. 1,435,720; Nov. 14.
- Truck, Lifting. A. M. Barrett. No. 1,428,522; Sept. 12.
- Truck, Lifting. A. M. Barrett, W. Childress, and F. Trotter. No. 1,428,523; Sept. 12.
- Truck, Lifting. W. Childress. No. 1,402,480; Jan. 3.
- Truck, Lifting. S. Hertz. No. 1,430,992; Oct. 3.
- Truck, Lifting. H. E. Spencer. No. 1,403,651; Jan. 17.
- Truck, Lifting. W. Stuebing, jr., and H. A. Van Guelpen. No. 1,427,764; Aug. 29.
- Truck, Lifting. W. Stuebing, jr. No. 1,433,426; Oct. 24.
- Truck, Lifting. F. W. Vickery. No. 1,403,992; Jan. 17.
- Truck, Loading and unloading. D. E. Swinehart. No. 1,404,069; Jan. 17.
- Truck loading and unloading mechanism. R. F. Stewart. No. 1,423,887; July 25.
- Truck-loading windlass, Motor-. M. H. McKenna. No. 1,433,289; Oct. 24.
- Truck, Logging. J. McLarty. No. 1,436,999; Nov. 28.
- Truck, Mine-car. J. M. Cameron. No. 1,419,218; June 13.
- Truck, Monorail. O. E. Barthel. No. 1,432,655; Oct. 17.
- Truck, Motor. J. Hocke. No. 1,425,965; Aug. 15.
- Truck, Motor. C. S. Schroeder. No. 1,420,762; June 27.
- Truck platform. F. G. Davis. No. 1,402,146; Jan. 3.
- Truck, Portable. M. M. Wood. No. 1,422,730; July 11.
- Truck, Power. J. Kramer, F. O. Kuehne, jr., and W. H. Kopplin. No. 1,423,947; July 25.
- Truck, Power. F. O. Kuehne, Jr., and J. Kramer. No. 1,405,137; Jan. 31.
- Truck, Power-propelled. H. H. Harris. No. 1,439,236; Dec. 19.
- Truck, Railway. S. A. Mathers. No. 1,422,116; July 11.
- Truck, Railway. W. E. Woodard. No. 1,417,653; May 30.
- Truck, Semitrailer and means for connecting it with a. F. T. Falco. No. 1,436,025; Nov. 21.
- Truck side frame. G. A. Anderson. No. 1,422,074; July 11.
- Truck side frame. J. A. Lamont. No. 1,434,829; Nov. 7.
- Truck-side-frame construction. J. A. Lamont. No. 1,434,830; Nov. 7.
- Truck side frame, Pedestal. H. E. Doerr. No. 1,414,554; May 2.
- Truck, Single-lift elevating. R. M. Lovejoy. No. 1,434,016; Oct. 31.
- Truck, Six-wheel. A. Christianson. No. 1,409,079; Mar. 7.
- Truck, Six-wheel. G. G. Floyd. No. 1,418,294; June 6.
- Truck, Six-wheel railway car. J. A. Lamont. No. 1,418,308; June 6.
- Truck, Six-wheeled freight. E. W. Webb. No. 1,432,929; Oct. 24.
- Truck, Street-car. T. J. Barrow. No. 1,412,383; Apr. 11.
- Truck, Tipping. O. Ballert. No. 1,405,182; Jan. 31.
- Truck tongue mounting. C. O. Larson. No. 1,431,013; Oct. 3.
- Truck, Tractor motor. E. G. Voegeli. No. 1,438,414; Dec. 12.
- Truck, Trailer. A. B. Cadman. No. 1,421,402; July 4.
- Truck, Transfer. J. Kramer and P. J. Greaves. No. 1,436,660; Nov. 28.
- Truck turntable. F. E. Arndt. No. 1,414,719; May 2.
- Truck turntable and gravel spreader. E. A. Dennis. No. 1,412,389; Apr. 11.
- Truck, Warehouse. A. J. Morrow. No. 1,428,248; Sept. 5.
- Truck, Warehouse. R. D. Simpson. No. 1,432,267; Oct. 17.
- Truck, Warehouse dumping. K. Cadwalader. No. 1,410,991; Mar. 28.
- Truck wheel. A. M. Leoni. (Reissue.) No. 15,367; May 30.
- Truck wheels, Tongue operated lock for. L. R. McKinney. No. 1,424,929; Aug. 8.
- Trucking mechanism. A. J. Morrow. No. 1,425,999; Aug. 15.
- Trucks, Automatic ball-bearing side bearing for railway. G. M. Hyndes. No. 1,429,737; Sept. 19.
- Trucks, Body for farm. E. R. Hewitt and J. H. Blake, Jr. No. 1,422,859; July 18.
- Trucks, Brake drum for car. J. W. Woodward. No. 1,402,825; Jan. 10.
- Trucks, Brake-hanger support for. J. C. Whitridge and J. C. Larsen. No. 1,415,132; May 9.
- Trucks, Cab for automobile. C. M. Evans. No. 1,439,621; Dec. 19.

Alphabetical list of inventions—Continued.

- Trucks, Centering device for. W. E. Woodard. No. 1,406,801; Feb. 14.
- Trucks, Combined draw-bar and axle supporting apparatus for car. C. S. Card. No. 1,419,716; June 13.
- Trucks, Coupling for. E. L. Peterson. No. 1,432,615; Oct. 17.
- Trucks, Dashpot check for elevating. F. L. Eidmann. No. 1,409,287; Mar. 14.
- Trucks, Dumping body for. A. Woodward. No. 1,413,551; Apr. 18.
- Trucks, Dumping mechanism for. J. A. Beebe. No. 1,422,077; July 11.
- Trucks, Elevating mechanism for automotive. R. A. Klein, W. H. Burtis, and L. U. Eyerly. No. 1,429,038; Sept. 12.
- Trucks, Equalizing arrangement for six-wheel. J. A. Lamont and L. Richardson. No. 1,437,978; Dec. 5.
- Trucks, Frame construction for industrial. C. S. Schroeder. No. 1,411,875; Apr. 4.
- Trucks, Load-securing means for industrial. C. E. Cochran. Nos. 1,439,227-8; Dec. 19.
- Trucks, Load-securing means for industrial. A. R. Goldrick. No. 1,439,233; Dec. 19.
- Trucks, Loading and unloading apparatus for. V. L. J. Bourgeois. No. 1,427,189; Aug. 29.
- Trucks, Loading and unloading means and portable body for. A. F. Callison. No. 1,422,663; July 11.
- Trucks, Loading device for. C. C. Atkinson. No. 1,411,830; Apr. 4.
- Trucks, Lock for church. A. H. Dolge. No. 1,429,849; Sept. 19.
- Trucks, Means for suspending cars upon. J. F. O'Connor. No. 1,405,619; Feb. 7.
- Trucks, Operating mechanism for dumping. V. M. Hadson. No. 1,411,346; Apr. 4.
- Trucks, Platform for. A. T. Goldfield. No. 1,409,092; Mar. 7.
- Trucks, Rear construction for automobile. W. Krafve. No. 1,404,977; Jan. 31.
- Trucks, Safety appliance for railway-car. C. L. Pittman. No. 1,426,096; Aug. 15.
- Trucks, Safety attachment for railway-car. C. L. Pittman. No. 1,418,827; June 6.
- Trucks, Semiwood wheel for motor. E. K. Baker. No. 1,407,829; Feb. 28.
- Trucks, Track layer for. C. W. Gregory. No. 1,404,520; Jan. 24.
- Trucks, Wheel check for hand. H. R. Lakin. No. 1,411,790; Apr. 4.
- Trunk, A. W. Balder. No. 1,428,313; Sept. 5.
- Trunk, D. E. Rose and H. E. Hossfeld. No. 1,413,062; Apr. 18.
- Trunk and garment-hanger bracket therefor, Wardrobe. S. Osterweil. No. 1,428,554; Sept. 12.
- Trunk appliance. T. I. Gilbert. No. 1,415,169; May 9.
- Trunk attachment. O. E. Cartmill. No. 1,402,211; Jan. 3.
- Trunk attachment, Wardrobe. W. R. Dickson. No. 1,426,823; Aug. 22.
- Trunk, Combination. W. Suski. No. 1,420,782; June 27.
- Trunk drawers, Locking device for. E. W. Hawley. No. 1,440,146; Dec. 26.
- Trunk drawers, Locking means for. G. H. Wheary. No. 1,419,594; June 13.
- Trunk garment-holding rack. J. T. Batts. No. 1,424,333; Aug. 1.
- Trunk lock. J. Luttmann. No. 1,417,264; May 23.
- Trunk lock. G. H. Wheary. No. 1,437,460; Dec. 5.
- Trunk-locking device. F. W. Meyer. No. 1,412,564; Apr. 11.
- Trunk-rieving machine. T. M. House and H. R. McConnell. No. 1,410,182; Mar. 21.
- Trunk-rieving machine. T. M. House and H. R. McConnell. No. 1,430,447; Sept. 26.
- Trunk, Steamer. M. H. P. Droste. No. 1,429,068; Sept. 12.
- Trunk, Wardrobe. G. F. Grube. Nos. 1,409,707-8; Mar. 14.
- Trunk, Wardrobe. G. F. Grube. No. 1,411,694; Apr. 4.
- Trunk, Wardrobe. B. M. Hamlin. No. 1,418,564; June 6.
- Trunk, Wardrobe. B. M. Hamlin. No. 1,432,851; Oct. 24.
- Trunk, Wardrobe. S. Orenstein. No. 1,421,294; June 27.
- Trunk, Wardrobe. J. Rauchbach. No. 1,416,415; May 16.
- Trunks, Hanger support for wardrobe. T. M. House. No. 1,416,030; May 16.
- Trunks, Kitbags, and the like, Handle for. E. J. Falkiner. No. 1,409,936; Mar. 21.
- Trunks, Manufacturing extensible slide supports for wardrobe. A. Petrie. No. 1,402,012; Jan. 3.
- Trunks, Safety lock for. J. Brzezicki. No. 1,406,822; Feb. 14.
- Trunks, Shoe box for. F. W. Meyer. No. 1,412,563; Apr. 11.
- Trunks, Tray fastener for wardrobe. C. D. Wilt. No. 1,414,162; Apr. 25.
- Truss. J. U. Adam. No. 1,435,368; Nov. 14.
- Truss. A. E. Armstrong. No. 1,413,512; Apr. 18.
- Truss. W. A. Barrows. No. 1,408,683; Mar. 7.
- Truss. W. M. Durham. No. 1,412,891; Apr. 11.
- Truss. C. W. Hall. No. 1,431,521; Oct. 10.
- Truss. J. C. McKeown. No. 1,417,929; May 30.
- Truss. W. D. Palmer. No. 1,438,501; Dec. 12.
- Truss. C. M. Thomas. No. 1,426,124; Aug. 15.
- Truss, Corset. M. Gebhardt. No. 1,438,911; Dec. 12.
- Truss pad. H. A. Warren. No. 1,422,153; July 11.
- Truss structure. J. A. Miller. No. 1,438,452; Dec. 12.
- Tube: See—
- Feed tub. Washing-machine tub.
- Laundering tub.
- Tube bottom. L. H. Payne. No. 1,427,907; Sept. 5.
- Tubs and sinks, Fitting for. P. Connolly. No. 1,416,172; May 16.
- Tubs, Controller for oscillating washing-machine. W. S. Ireland and W. H. Meyer. No. 1,425,098; Aug. 8.
- Tubs, Mechanism for locking washing-machine. W. S. Ireland and W. H. Meyer. No. 1,403,904; Jan. 17.
- Tube: See—
- Collapsible tube. Inner tube.
- Compressor tube. Puncture-healing tube.
- Electric discharging tube. Radiator tube.
- Electron tube. Tire tube.
- Flow tube. Torque tube.
- Ignition and propulsion tube. Vacuum tube.
- Tube and closure therefor and joining same, Dispensing. F. L. Fox. No. 1,424,243; Aug. 1.
- Tube and making same, Inner. M. A. Marquette. No. 1,428,382; Sept. 5.
- Tube and rod tapering. L. H. Brinkman. No. 1,418,697; June 6.
- Tube apparatus, Lapweld. R. F. Haughey. No. 1,438,237; Dec. 12.
- Tube bending or flanging machine. E. B. Miner. No. 1,420,383; June 20.
- Tube cleaner. F. W. Linaker and T. M. Bruback. No. 1,408,369; Feb. 28.
- Tube cleaner. F. W. Linaker and T. M. Bruback. No. 1,410,686; Mar. 28.
- Tube cleaner. J. T. McGrath. No. 1,405,930; Feb. 7.
- Tube-closing machine. I. W. Wepplo. No. 1,422,644; July 11.
- Tube-closing machine, Collapsible. T. L. Harrison. No. 1,425,961; Aug. 15.
- Tube-closing mechanism. W. S. Pritchard. No. 1,424,180; Aug. 1.
- Tube compressor. F. S. Hyatt. No. 1,422,864; July 18.
- Tube cushion, Inner. J. W. and G. F. Burgess. No. 1,407,730; Feb. 28.
- Tube cutting. R. E. Bradley. No. 1,428,355; Sept. 5.
- Tube-cutting machine and crimper. P. J. Kohler. No. 1,415,099; May 9.
- Tube-cutting mechanism. S. H. Goldberg. No. 1,424,472; Aug. 1.
- Tube-cutting mechanism. W. S. Pritchard. No. 1,424,179; Aug. 1.
- Tube deflation. R. J. Riendeau. No. 1,434,452; Nov. 7.
- Tube expander. T. J. Dixon. Nos. 1,412,277-8; Apr. 11.
- Tube expander. W. Nakagawa. No. 1,433,028; Oct. 24.
- Tube expander. O. Wiedeke. No. 1,404,819; Jan. 31.
- Tube expander and beading tool, Combined. J. J. Smith. No. 1,423,545; July 25.
- Tube expander, Multiple. T. J. Dixon. No. 1,417,979; May 30.
- Tube expanders, Spring retainer and safety cover for sectional. E. J. Sweeney. No. 1,408,546; Mar. 7.
- Tube-filling device. E. Vaille and H. Bosc. No. 1,412,150; Apr. 11.
- Tube-forming die. T. L. Talty. No. 1,403,460; Jan. 10.
- Tube-forming machines, Cutting attachment for. D. E. E. Roland. No. 1,413,191; Apr. 18.
- Tube holder. H. S. Uber. No. 1,432,644; Oct. 17.
- Tube holding and closure means. J. B. Staton. No. 1,435,750; Nov. 14.
- Tube joints, Device for riveting. J. Shütte. No. 1,420,866; June 27.
- Tube-making machine. H. Z. Cobb. No. 1,418,535; June 6.
- Tube manufacture, Machine for vacuum. A. Boardman. No. 1,438,941; Dec. 19.
- Tube mill. J. Ferencz. No. 1,428,687; Sept. 12.
- Tube return bend, Double. C. H. True. No. 1,411,762; Apr. 4.
- Tube rolling mill, Continuous. R. E. Brock. No. 1,420,239; June 20.
- Tube, Self-healing. E. Fetter. Nos. 1,427,277-8; Aug. 29.
- Tube setting and spreading tool. J. H. Vogt, jr. No. 1,425,426; Aug. 8.
- Tube-stripping machine. C. E. Maynard. No. 1,402,171; Jan. 3.
- Tube-welding machine. E. Kamper. No. 1,439,962; Dec. 26.
- Tube-welding machine. J. W. White. No. 1,415,848; May 9.
- Tube-wrapping machine. W. C. Stevens. No. 1,435,091; Nov. 7.
- Tubes, Adjustable plug for cleaning condenser. M. Manion and R. C. Arthur. No. 1,415,600; May 9.
- Tubes and similar articles, Forming flanges on. G. H. Phelps and T. E. Murray, jr. No. 1,439,480; Dec. 19.
- Tubes and similar articles, Mold for pneumatic. W. L. Fairchild. No. 1,423,761; July 25.
- Tubes, Apparatus for cutting. M. Servais. No. 1,431,546; Oct. 10.
- Tubes, Apparatus for making inner. D. C. McRoberts. No. 1,433,561; Oct. 31.

Alphabetical list of inventions—Continued.

- Tubes, Apparatus for making lapwelded. J. H. Matheson. No. 1,436,514; Nov. 21.
- Tubes, Apparatus for producing hooping effects in metal. E. Schneider. No. 1,429,539; Sept. 19.
- Tubes, Apparatus for unwrapping inner. L. C. Riblett. No. 1,415,709; May 9.
- Tubes, Attachment for collapsible. J. S. Turner. No. 1,405,861; Jan. 31.
- Tubes, Clean-out device for Pitot. J. Coyne. No. 1,438,811; Dec. 12.
- Tubes, Compensating device for reaction. C. M. Colvin. No. 1,428,323; Sept. 5.
- Tubes, Device for deflating inner. Q. A. Walker. No. 1,438,509; Dec. 12.
- Tubes, Displaying collapsible. W. W. Simpson. No. 1,434,921; Nov. 7.
- Tubes, Forming. A. W. Stoner. No. 1,424,386; Aug. 1.
- Tubes, Forming helically-convoluted. B. B. Holmes. No. 1,417,324; May 23.
- Tubes, From ingots, Apparatus for making. S. Okano. No. 1,413,605; Apr. 25.
- Tubes, From ingots, Making. S. Okano. No. 1,413,604; Apr. 25.
- Tubes, Machine and method for forming and bending. F. Kritz. No. 1,420,042; June 20.
- Tubes, Machine for forming. F. G. Gale. No. 1,435,835; Nov. 14.
- Tubes, Making. D. L. Summey. No. 1,432,803; Oct. 24.
- Tubes, Making inner. D. C. McRoberts. No. 1,406,669; Feb. 14.
- Tubes, Manufacture of seamless. G. Rabold, Sr. No. 1,412,196; Apr. 11.
- Tubes, Means for cutting. H. F. Field and S. F. Burgoine. No. 1,403,901; Jan. 17.
- Tubes, Method and apparatus for wrapping uncured tubes from cured. T. A. Jordan and A. E. Caesher. No. 1,405,418; Feb. 7.
- Tubes, Method of and apparatus for forming flexible. L. H. Brinkman. No. 1,410,160; Mar. 21.
- Tubes of condensers, boilers, etc., Cleaner for. M. K. Bowman. No. 1,424,336; Aug. 1.
- Tubes, pipes, and the like, Lining metal. F. Arens. No. 1,431,716; Oct. 10.
- Tubes, Pressure regulator for vacuum. A. Mutscheller. No. 1,409,460; Mar. 14.
- Tubes, rails, and similar metal pieces, Apparatus for bending. A. de Aguiar and R. V. Anciano. No. 1,436,225; Nov. 21.
- Tubes, Sanitary holder for collapsible. C. A. Price. No. 1,435,622; Nov. 14.
- Tubes, tubular containers, and sheets, Process of and apparatus for tempering metallic. H. A. Stock. No. 1,418,986; June 6.
- Tubes, Vulcanizing pneumatic. W. L. Fairchild. No. 1,423,760; July 25.
- Tubes with compressed air, Means for testing. H. M. Smith. No. 1,431,704; Oct. 10.
- Tubing. H. W. Bundy. No. 1,431,368; Oct. 10.
- Tubing bleeder. F. N. Crippen. No. 1,430,217; Sept. 26.
- Tubing bleeder. G. C. Irons and A. Larson. No. 1,423,937; July 25.
- Tubing, Butt-welded thin-walled. G. V. Johnston. No. 1,435,306; Nov. 14.
- Tubing catcher. W. Meredith and W. L. Foster. No. 1,428,385; Sept. 5.
- Tubing, Forming soldered seamed. D. B. Lee. No. 1,424,170; Aug. 1.
- Tubing machine. D. F. Domizi. No. 1,429,328; Sept. 19.
- Tubing machine. M. S. Lower. No. 1,428,381; Sept. 5.
- Tubing, Machine for manufacturing. D. B. Lee. No. 1,424,171; Aug. 1.
- Tubing machines, Strainer head for. V. Royle. No. 1,416,067; May 16.
- Tubing, Material for mine-ventilating. C. D. Abraham. No. 1,432,585; Oct. 17.
- Tubing, Method and machine for soldering. W. S. Pritchard. No. 1,424,181; Aug. 1.
- Tubing protector. J. W. Wingett. No. 1,402,699; Jan. 3.
- Tubular articles, Method of and means for making. F. H. Maloney. No. 1,413,284; Apr. 18.
- Tubular bodies of corrugated pasteboard, Manufacturing. B. Kreher. No. 1,426,879; Aug. 22.
- Tubular elements, Expandable attaching means for connecting. A. J. Schultz. No. 1,422,227; July 11.
- Tubular forging and making the same. J. M. Sylvester. No. 1,437,690; Dec. 5.
- Tubular hollow body. C. Dornier. No. 1,419,828; June 13.
- Tubular spoked wheel. W. E. Williams. No. 1,408,790; Mar. 7.
- Tubular spoked wheel, Demountable. W. E. Williams. No. 1,410,047; Mar. 21.
- Tubular structure. J. L. Sussman. No. 1,425,718; Aug. 15.
- Tulle, Machine for making. E. Cavigelli. No. 1,404,373; Jan. 24.
- Tumbler, Drying. E. I. Cutter. No. 1,424,994; Aug. 8.
- Tumbler, Dry-room. L. H. Kemper, V. E. Adland, and W. Bartholomew. No. 1,405,594; Feb. 7.
- Tumbler lock. J. B. Freysinger. No. 1,432,326; Oct. 17.
- Tumbler lock. J. B. Freysinger. No. 1,434,947; Nov. 7.
- Tumbler lock. C. Reichard. No. 1,436,357; Nov. 21.
- Tumbler switch. R. Alkan. No. 1,437,702; Dec. 5.
- Tumbler, toothbrush, and tube-paste holder, Combined. C. H. Dempewolf. No. 1,407,347; Feb. 21.
- Tungsten trioxide from tungsten ores, Recovery of. S. J. Lubowsky. No. 1,410,584; Mar. 28.
- Tungstic oxide to tungsten metal, Reducing. W. F. Bleecker. No. 1,427,187; Aug. 29.
- Tuning coil. F. Swink. No. 1,435,757; Nov. 14.
- Tuning fork and supporting resonator, Master. J. C. Deagan. No. 1,419,919; June 20.
- Tunnel and shaft lining. B. H. M. Hewett. No. 1,414,129; Apr. 25.
- Tunnel kiln. G. H. Benjamin. No. 1,415,011; May 9.
- Tunnel kiln. G. W. Booth. No. 1,403,734; Jan. 17.
- Tunnel kiln. G. W. Booth. No. 1,421,155; June 27.
- Tunnel kiln. A. M. Duckham and A. T. Kent. No. 1,424,560; Aug. 1.
- Tunnel kiln. E. P. Ogden. No. 1,418,669; June 6.
- Tunnel kiln, Duplex. P. A. Meehan. No. 1,437,769; Dec. 5.
- Tunneling device. C. G. Hastings. No. 1,413,729; Apr. 25.
- Tunneling machine. W. R. Collins. No. 1,404,929; Jan. 31.
- Tunneling machine. D. Whitaker and H. C. Baxter. No. 1,403,530; Jan. 17.
- Tunnel ventilator. I. H. Harris. No. 1,409,545; Mar. 14.
- Tunnels and the like, Machine for building. M. R. Sheen. No. 1,429,647; Sept. 19.
- Tunnels, Transportation apparatus and method for use in driving. P. Lippert and T. E. Richards, Jr. No. 1,404,036; Jan. 17.
- Tunnels, Trolley guard for. C. T. Whaley. No. 1,416,535; May 16.
- Turbine. K. A. Ahlfors. No. 1,402,992; Jan. 10.
- Turbine. J. S. Binnie. No. 1,409,074; Mar. 7.
- Turbine. J. O. Carrey. No. 1,415,219; May 9.
- Turbine. M. Chougassoff. No. 1,412,281; Apr. 11.
- Turbine. C. W. Dake. No. 1,429,570; Sept. 19.
- Turbine. C. W. Dake. No. 1,431,626; Oct. 10.
- Turbine. H. A. Hood. No. 1,414,984; May 2.
- Turbine. H. A. King. No. 1,424,167; Aug. 1.
- Turbine. S. W. Nichols. No. 1,405,551; Feb. 7.
- Turbine. E. B. Petrie. No. 1,403,103; Jan. 10.
- Turbine. G. B. Petsche. No. 1,412,257; Apr. 11.
- Turbine. H. F. Schmidt. No. 1,424,263; Aug. 1.
- Turbine blade. W. B. Flanders. No. 1,416,701; May 23.
- Turbine-blade fastener. A. P. O. Manicke. No. 1,412,364; Apr. 11.
- Turbine blading. C. A. Parsons, A. Q. Carnegie, M. Bone, and S. S. Cook. No. 1,430,398; Sept. 26.
- Turbine blower, Compound. E. D. Green. No. 1,418,704; June 6.
- Turbine, Elastic-fluid. C. W. Dake. No. 1,402,053; Jan. 3.
- Turbine, Elastic-fluid. H. W. Falk, P. C. Day, and O. A. Banner. No. 1,435,918; Nov. 21.
- Turbine, Elastic fluid. O. Junggren. No. 1,415,571; May 9.
- Turbine, Elastic-fluid. C. S. Rice. No. 1,415,266; May 9.
- Turbine engine. L. E. Kenney. No. 1,433,950; Oct. 31.
- Turbine, Fluid-pressure. C. E. Mellin. No. 1,431,748; Oct. 10.
- Turbine, Geared. H. F. Schmidt. No. 1,423,459; July 18.
- Turbine, Hydraulic. J. Négri. No. 1,412,313; Apr. 11.
- Turbine installation, Emergency valve mechanism for. E. D. Dickinson. No. 1,409,530; Mar. 14.
- Turbine, Interchanger. H. N. Davis. No. 1,420,626; June 27.
- Turbine, Internal-combustion. H. S. Johnson. No. 1,421,087; June 27.
- Turbine, Internal-combustion. L. C. Josephs, Jr. No. 1,418,444; June 6.
- Turbine, Internal-combustion. T. J. Puplett. No. 1,423,453; July 18.
- Turbine motor. F. F. Fowle. No. 1,433,995; Oct. 31.
- Turbine, Multiple-stage pressure-stage. J. Kerr. No. 1,429,508; Sept. 19.
- Turbine, Noncentrifugal inertia. E. Faure. No. 1,402,853; Jan. 10.
- Turbine or turbine-driven unit, Elastic-fluid. C. Steenstrup. No. 1,416,760; May 23.
- Turbine, Reversible fluid-pressure. J. W. McGovern. No. 1,422,458; July 11.
- Turbine, Reversing. W. B. Flanders. No. 1,416,702; May 23.
- Turbine, Semidouble-flow steam. K. Baumann. No. 1,405,090; Jan. 31.
- Turbine, Steam. K. Baumann. Nos. 1,405,091-2; Jan. 31.
- Turbine, Steam. K. Baumann. Nos. 1,405,564-5; Feb. 7.
- Turbine, Steam. K. Baumann. No. 1,412,827; Apr. 18.
- Turbine, Steam. O. D. H. Bentley. No. 1,410,644; Mar. 28.
- Turbine, Steam. O. D. H. Bentley. No. 1,415,298; May 9.
- Turbine, Steam. O. D. H. Bentley. No. 1,434,672; Nov. 7.
- Turbine, Steam. M. D. Church. No. 1,440,209; Dec. 26.
- Turbine, Steam. J. F. Grey. No. 1,438,488; Dec. 12.
- Turbine, Water. D. Ránki. No. 1,436,933; Nov. 28.
- Turbines, Apparatus for operating the starting devices of water. J. E. Englesson. No. 1,431,221; Oct. 10.
- Turbines, Cut-out gear for steam. J. P. Anderson. No. 1,435,683; Nov. 14.
- Turbines, Diaphragm for steam. C. R. Waller. No. 1,427,179; Aug. 29.

- Turbines, Governing means for marine. C. R. Waller. No. 1,408,049; Feb. 28.
- Turbines, Governor weight for steam. C. W. Dake. No. 1,432,444; Oct. 17.
- Turbines, Lubrication for steam. H. H. Wait. No. 1,419,706; June 13.
- Turbines, Manufacture of blading for. C. A. Parsons, A. Q. Carnegie, and M. Bone. No. 1,420,278; June 20.
- Turbines, Manufacture of blading for. C. A. Parsons, A. Q. Carnegie, and M. Bone. No. 1,420,338; June 20.
- Turbines, Manufacture of blading for. C. A. Parsons, A. Q. Carnegie, M. Bone, and S. S. Cook. No. 1,430,400; Sept. 26.
- Turbines, Safety device for steam. C. W. Dake. No. 1,433,534; Oct. 31.
- Turbines, Valve mechanism for elastic-fluid. E. D. Dickinson. No. 1,409,528; Mar. 14.
- Turbocompressor control. E. H. Sherbondy. No. 1,419,316; June 13.
- Turbocompressors, Constant-volume regulator for. L. R. Huff. No. 1,411,701; Apr. 4.
- Turbocompressors, Constant-volume regulator for. M. J. Nusim. No. 1,408,710; Mar. 7.
- Tubocompressors, Constant-volume regulator for. W. E. Trumpler. No. 1,408,660; Mar. 7.
- Turbocompressors, Pressure regulator for. L. R. Huff. No. 1,415,647; May 9.
- Turbocompressors, Regulator for. F. A. Hill. No. 1,408,700; Mar. 7.
- Turbo displacement motor. L. H. Nash. No. 1,429,044; Sept. 12.
- Turbogenerator. W. F. Bouché and E. J. Blake. No. 1,420,076; June 20.
- Turnbuckle. S. Ferragamo. No. 1,413,328; Apr. 18.
- Turnbuckle. W. H. Kempton. No. 1,438,601; Dec. 12.
- Turnbuckle. W. E. Sullivan. No. 1,420,460; June 20.
- Turnbuckle. C. H. Veeder. No. 1,421,866; July 4.
- Turnbuckle, Lock-wire. W. Martin. No. 1,427,114; Aug. 29.
- Turnbuckle wrench. J. T. McCaskey. No. 1,414,989; May 2.
- Turnbuckles, Forming. C. E. Anderson. No. 1,413,821; Apr. 25.
- Turnbuckles, Locking device for. C. F. Jaynes. No. 1,411,279; Apr. 4.
- Turnbutton fastener. D. Bourque. No. 1,417,658; May 30.
- Turnbutton fastener. G. S. Weimer. No. 1,412,097; Apr. 11.
- Turn indicator. E. A. Sperry. No. 1,407,491; Feb. 21.
- Turning chips, Machine for reducing. R. Philipp. No. 1,420,742; June 27.
- Turning machines, Finishing head for bolt. W. T. Lingo. No. 1,406,880; Feb. 14.
- Turnover mechanism. G. J. Daniell. No. 1,429,327; Sept. 19.
- Turnsole and making same. F. E. Bertrand. No. 1,410,157; Mar. 21.
- Turntable. G. R. Gehrandt. No. 1,409,372; Mar. 14.
- Turntable. M. L. Hoeffken. No. 1,428,090; Sept. 5.
- Turntable. E. R. Inman. No. 1,421,009; June 27.
- Turntable. W. H. Krug. No. 1,408,747; Mar. 7.
- Turntable. H. E. Moore. No. 1,408,379; Feb. 28.
- Turntable. A. Vasselli. No. 1,416,080; May 16.
- Turntable. J. P. Westmoreland and J. D. Bullington. No. 1,402,554; Jan. 3.
- Turntable, Center-drain. H. M. Norris. No. 1,426,496; Aug. 22.
- Turntable, Continuous girder. O. E. Hovey. No. 1,417,917; May 30.
- Turntable, Exhibition. E. R. Inman. No. 1,421,008; June 27.
- Turntables, Operating mechanism for. H. Amendt and H. Scherer. No. 1,410,442; Mar. 21.
- Turret-tool holder, Multiple. W. A. Salter. No. 1,426,778; Aug. 22.
- Tuyère, Laterally-movable. J. H. Roach. No. 1,439,578; Dec. 19.
- Twine cutter. J. Sutton. No. 1,407,446; Feb. 21.
- Twine grip. F. E. Slocum. No. 1,413,690; Apr. 25.
- Twine holder. H. L. Dremann. No. 1,437,295; Nov. 28.
- Twine holder. S. Lee. No. 1,405,526; Feb. 7.
- Twine holder and advertising device, Combined. B. W. Smith. No. 1,407,175; Feb. 21.
- Twist drills. F. A. Joseph. No. 1,407,546; Feb. 21.
- Twister. J. S. Bachman. No. 1,435,789; Nov. 14.
- Twister. R. W. Brockway. No. 1,416,941; May 23.
- Twisting and like machines, Friction device for. G. L. Brownell. No. 1,409,824; Mar. 14.
- Twisting and winding machine. A. Friedlander. No. 1,425,084; Aug. 8.
- Twisting machine. C. W. Hubbard. No. 1,432,861; Oct. 24.
- Twisting machine. J. B. Meltz. No. 1,438,322; Dec. 12.
- Twisting traveler. P. C. Wentworth. No. 1,415,072; May 9.
- Two-cycle engine. O. A. Derans. No. 1,405,975; Feb. 7.
- Two-cycle engine. E. E. Nelder. No. 1,405,545; Feb. 7.
- Tying device. J. A. Brogan. No. 1,427,782; Sept. 5.
- Tying tool. H. H. Burson. No. 1,426,545; Aug. 22.
- Type-bar key-lever mechanism. L. R. Roberts. No. 1,428,117; Sept. 5.
- Type bar or slug. A. H. Narrow. No. 1,434,308; Oct. 31.
- Type bars or slugs, Apparatus for casting. J. G. Hobbins. No. 1,415,445; May 9.
- Type box. W. A. Sears. No. 1,418,206; May 30.
- Type brick and briquetting press, Rotary. D. Singh. No. 1,408,310; Feb. 28.
- Type carrier. W. W. Lasker. No. 1,423,438; July 18.
- Type case. R. I. Scheuer. No. 1,420,154; June 20.
- Type casting and setting machine. R. Greer. No. 1,434,114; Oct. 31.
- Type-casting machine, Delivering mechanism for. M. C. Indahl. No. 1,414,472; May 2.
- Type-casting machines, Automatic cold-metal feeder for. G. L. Fort. No. 1,412,856; Apr. 18.
- Type-casting machines, Footlift to raise the assembling elevators of. J. G. Clark. No. 1,429,844; Sept. 19.
- Type-casting machines, Knife-wiping attachment for. E. Villarreal. No. 1,420,595; June 20.
- Type-casting machines, Matrix and distributing apparatus for. A. Becker. No. 1,422,333; July 11.
- Type faco, Removable. C. E. Fisk. No. 1,409,288; Mar. 14.
- Type-feeding device. C. F. Nayer. No. 1,414,148; Apr. 25.
- Type forms, Device for inserting rules in. E. Lamparter. No. 1,403,504; Jan. 17.
- Type gauge, Printer's. F. G. Shepard. No. 1,417,208; May 23.
- Type holder. C. A. Macomic. No. 1,434,958; Nov. 7.
- Type holder. J. B. Ruffalo. No. 1,403,447; Jan. 10.
- Type-line-setting machine. J. Dorneth. No. 1,408,570; Mar. 7.
- Type-setting machine. A. H. Narrow. No. 1,438,131; Dec. 5.
- Type-setting machines, Adjustable chute spring for. R. Shields. No. 1,403,450; Jan. 10.
- Typewriter. A. H. Adams. No. 1,426,804; Aug. 22.
- Typewriter. C. W. Barnaby. No. 1,428,130; Sept. 5.
- Typewriter. C. Gagliazzo. No. 1,420,998; June 27.
- Typewriter. G. G. Going. No. 1,403,494; Jan. 17.
- Typewriter. R. Hanus. No. 1,434,951; Nov. 7.
- Typewriter. W. P. Kidder. No. 1,412,351; Apr. 11.
- Typewriter. F. J. McLoughlin. No. 1,425,029; Aug. 8.
- Typewriter. J. C. Reddick. No. 1,407,440; Feb. 21.
- Typewriter. L. R. Roberts. No. 1,431,983; Oct. 17.
- Typewriter. C. L. Tanner. No. 1,409,620; Mar. 14.
- Typewriter. J. A. Wherry. (Reissue.) No. 1,426,725; July 25.
- Typewriter. E. Winterer. No. 1,402,200; Jan. 3.
- Typewriter-account key mechanism. H. F. E. Baeseler. No. 1,439,057; Dec. 19.
- Typewriter and card puncher, Combined. F. E. Meyer. No. 1,439,184; Dec. 19.
- Typewriter attachment. C. H. Caldwell. No. 1,424,985; Aug. 8.
- Typewriter attachment. H. L. Hedrick and H. C. Chantler. No. 1,420,259; June 20.
- Typewriter attachment. W. J. Iwami. No. 1,426,195; Aug. 15.
- Typewriter attachment. J. M. Schultz. No. 1,423,687; July 25.
- Typewriter cabinet. T. Brandts. No. 1,432,663; Oct. 17.
- Typewriter cabinet. B. P. Fortin. No. 1,404,843; Jan. 31.
- Typewriter cabinet. J. H. Heyward. No. 1,436,170; Nov. 21.
- Typewriter carriage shift. R. A. Loomis. No. 1,413,342; Apr. 18.
- Typewriter copyholder. A. L. Hart. No. 1,437,841; Dec. 5.
- Typewriter copyholder. A. S. MacDowell. No. 1,439,250; Dec. 19.
- Typewriter, Cryptographic. P. G. G. Beyer. No. 1,414,496; May 2.
- Typewriter desk. J. Vaaler. No. 1,415,909; May 16.
- Typewriter erasing attachment. J. H. Baldwin. No. 1,415,293; May 9.
- Typewriter escapement mechanism. O. A. Hokanson. No. 1,419,138; June 13.
- Typewriter, Folding. C. O. Noack. No. 1,403,810; Jan. 17.
- Typewriter, Folding. C. O. Noack. No. 1,433,641; Oct. 31.
- Typewriter keys, Cover for. O. A. Hokanson. No. 1,422,267; July 11.
- Typewriter keys, Removable cap for. R. S. Graham. No. 1,428,544; Sept. 12.
- Typewriter, Manifolding. J. Q. Sherman. No. 1,425,907; Aug. 15.
- Typewriter mechanism. A. Siepmann and A. Rademacher. No. 1,405,722; Feb. 7.
- Typewriter, Music. L. Fortoni. No. 1,436,491; Nov. 21.
- Typewriter pad. B. G. Osborne. No. 1,417,556; May 30.
- Typewriter platen, Noise-reducing. W. R. Mulock. No. 1,415,844; May 9.
- Typewriter ribbon especially adapted for manifolding. W. H. Sinclair. No. 1,433,974; Oct. 31.
- Typewriter ribbon inker, Self-feeding, portable. L. S. Harpootian. No. 1,411,212; Mar. 28.
- Typewriter ribbon vibrator. C. Spiro. No. 1,402,264; Jan. 3.
- Typewriter stroke and word counting and signaling and speed indicator device. A. E. Oswald. No. 1,411,579; Apr. 4.
- Typewriter support. C. B. Corcoran. No. 1,418,701; June 6.

Alphabetical list of inventions—Continued.

- Typewriter tabulators, Tabulator bar of. T. E. Blüschmann. No. 1,428,140; Sept. 5.
- Typewriter word-counter. A. E. King. No. 1,432,759; Oct. 24.
- Typewriter word-counting device. N. E. Wood-Smith. No. 1,431,276; Oct. 10.
- Typewriting and computing machine, Combined. H. Hanson. No. 1,416,464; May 16.
- Typewriting and computing machine, Combined. W. J. Hausman. No. 1,416,023; May 16.
- Typewriting and computing machine, Combined. G. E. De Haven and O. G. Schaaf. No. 1,432,678; Oct. 17.
- Typewriting and computing machine, Combined. H. Marshall. No. 1,403,130; Jan. 10.
- Typewriting and computing machine, Combined. F. L. Morgan. No. 1,433,737; Oct. 31.
- Typewriting and computing machine, Combined. A. E. Oswald. No. 1,438,718; Dec. 12.
- Typewriting and computing machine, Combined. H. L. Pitman. No. 1,417,106; May 23.
- Typewriting and computing machine, Combined. H. L. Pitman. No. 1,417,685; May 30.
- Typewriting and computing machine, Combined. B. C. Stickney. No. 1,416,520; May 16.
- Typewriting and computing machine, Combined. H. H. Vickers. No. 1,402,812; Jan. 10.
- Typewriting and computing machine, Combined. H. H. Vickers. No. 1,416,766; May 23.
- Typewriting and computing machine, Combined. J. Waldheim. No. 1,403,361; Jan. 10.
- Typewriting and computing machine, Combined. J. Waldheim. No. 1,416,428; May 16.
- Typewriting and computing machine, Combined. J. Waldheim. No. 1,433,761; Oct. 31.
- Typewriting-instruction machine. O. J. Hanson. No. 1,422,053; July 4.
- Typewriting machine. J. F. Allard. No. 1,406,162; Feb. 14.
- Typewriting machine. J. F. Allard. No. 1,421,134; June 27.
- Typewriting machine. F. H. Armstrong. No. 1,410,196; June 13.
- Typewriting machine. F. H. Armstrong and E. L. Harmon. No. 1,419,195; June 13.
- Typewriting machine. F. H. Armstrong. Nos. 1,437,214-16; Nov. 28.
- Typewriting machine. E. E. Barney. Nos. 1,411,603-4; Apr. 4.
- Typewriting machine. E. E. Barney. No. 1,414,166; Apr. 25.
- Typewriting machine. E. E. Barney. No. 1,425,825; Aug. 15.
- Typewriting machine. E. E. Barney. No. 1,430,208; Sept. 26.
- Typewriting machine. E. E. Barney. No. 1,431,558; Oct. 10.
- Typewriting machine. J. H. Barr. No. 1,407,509; Feb. 21.
- Typewriting machine. J. H. Barr. No. 1,413,312; Apr. 18.
- Typewriting machine. J. H. Barr. No. 1,414,167; Apr. 25.
- Typewriting machine. J. H. Barr. No. 1,415,138; May 6.
- Typewriting machine. L. S. Barr. No. 1,434,422; Nov. 7.
- Typewriting machine. J. H. Barr and E. E. Barney. No. 1,433,112; Oct. 24.
- Typewriting machine. H. Bates. No. 1,427,345-6; Aug. 29.
- Typewriting machine. H. Bates. Nos. 1,427,345-6; Aug. 29.
- Typewriting machine. H. Bates. No. 1,428,832; Sept. 12.
- Typewriting machine. A. Block. No. 1,403,836; Jan. 17.
- Typewriting machine. A. Block. No. 1,417,489; May 30.
- Typewriting machine. P. H. Burdick. No. 1,430,284; Sept. 26.
- Typewriting machine. E. A. Burns. No. 1,428,213; Sept. 5.
- Typewriting machine. G. W. Campbell. No. 1,407,982; Feb. 28.
- Typewriting machine. G. W. Campbell. No. 1,428,215; Sept. 5.
- Typewriting machine. G. W. Campbell. No. 1,430,356; Sept. 26.
- Typewriting machine. G. W. Campbell. No. 1,433,935; Oct. 31.
- Typewriting machine. C. B. Corcoran. No. 1,433,702; Oct. 31.
- Typewriting machine. C. B. Corcoran. No. 1,433,984; Oct. 31.
- Typewriting machine. C. B. Corcoran. Nos. 1,434,045-6; Oct. 31.
- Typewriting machine. P. de Clamecy. No. 1,423,311; July 18.
- Typewriting machine. J. E. Davidson. No. 1,419,617; June 13.
- Typewriting machine. J. E. Davidson. No. 1,428,325; Sept. 5.
- Typewriting machine. W. A. Dobson. No. 1,417,304; May 23.
- Typewriting machine. W. A. Dobson. No. 1,418,241; May 30.
- Typewriting machine. E. S. Dodge. No. 1,411,238; Mar. 28.
- Typewriting machine. R. Fries. No. 1,422,433; July 11.
- Typewriting machine. M. Garbel. (Reissue.) No. 15,305; Mar. 14.
- Typewriting machine. W. P. Gehrett. No. 1,429,336; Sept. 19.
- Typewriting machine. J. Gerbehay. No. 1,406,845; Feb. 14.
- Typewriting machine. D. T. Glackin. No. 1,403,075; Jan. 10.
- Typewriting machine. E. L. Harmon. Nos. 1,404,201-2; Jan. 24.
- Typewriting machine. E. L. Harmon. No. 1,437,241; Nov. 28.
- Typewriting machine. H. W. Harris. Nos. 1,433,817-8; Oct. 31.
- Typewriting machine. W. F. Helmond. Nos. 1,405,412-3; Feb. 7.
- Typewriting machine. W. F. Helmond. No. 1,411,024; Mar. 28.
- Typewriting machine. W. F. Helmond. No. 1,414,738; May 2.
- Typewriting machine. W. F. Helmond. No. 1,428,886; Sept. 12.
- Typewriting machine. W. F. Helmond. Nos. 1,432,695-6; Oct. 17.
- Typewriting machine. W. F. Helmond. No. 1,439,669; Dec. 19.
- Typewriting machine. E. B. Hess. No. 1,424,905; Aug. 8.
- Typewriting machine. E. B. Hess and G. F. Handley. No. 1,415,558; May 9.
- Typewriting machine. E. B. Hess and G. F. Handley. No. 1,421,083; June 27.
- Typewriting machine. E. B. Hess and L. C. Myers. No. 1,417,902; May 30.
- Typewriting machine. E. B. Hess and L. C. Myers. No. 1,417,904; May 30.
- Typewriting machine. E. B. Hess and L. C. Myers. No. 1,417,910; May 30.
- Typewriting machine. E. B. Hess and L. C. Myers. No. 1,418,440; June 6.
- Typewriting machine. E. B. Hess and L. C. Myers. Nos. 1,427,464-8; Aug. 29.
- Typewriting machine. F. W. Hillard. No. 1,417,737; May 30.
- Typewriting machine. C. M. Hilsee. No. 1,426,077; Aug. 15.
- Typewriting machine. J. B. Holden. No. 1,418,077; May 30.
- Typewriting machine. J. B. Holden. No. 1,424,409; Aug. 1.
- Typewriting machine. J. B. Holden. No. 1,437,520; Dec. 5.
- Typewriting machine. A. E. Howell. No. 1,416,031; May 16.
- Typewriting machine. A. A. Johnson. No. 1,413,407; Apr. 18.
- Typewriting machine. A. A. Johnson. No. 1,415,241; May 9.
- Typewriting machine. A. A. Johnson. No. 1,421,946; July 4.
- Typewriting machine. A. A. Johnson. No. 1,440,085; Dec. 26.
- Typewriting machine. E. Jucker. No. 1,406,873; Feb. 14.
- Typewriting machine. W. P. Keene. No. 1,419,970; June 20.
- Typewriting machine. S. Khalil. No. 1,403,329; Jan. 10.
- Typewriting machine. G. Kromm. No. 1,416,842; May 23.
- Typewriting machine. A. G. F. Kurowski. No. 1,408,009; Feb. 28.
- Typewriting machine. A. G. F. Kurowski. No. 1,410,478; Mar. 21.
- Typewriting machine. A. G. F. Kurowski. No. 1,415,455; May 9.
- Typewriting machine. A. G. F. Kurowski. No. 1,419,635; June 13.
- Typewriting machine. A. G. F. Kurowski. No. 1,425,024; Aug. 8.
- Typewriting machine. A. G. F. Kurowski. No. 1,425,326; Aug. 8.
- Typewriting machine. A. G. F. Kurowski. No. 1,425,390; Aug. 8.
- Typewriting machine. A. G. F. Kurowski. No. 1,427,689; Aug. 29.
- Typewriting machine. A. G. F. Kurowski. Nos. 1,428,850-1; Sept. 12.
- Typewriting machine. A. G. F. Kurowski. No. 1,434,659; Nov. 7.
- Typewriting machine. A. G. F. Kurowski. No. 1,438,045; Dec. 5.
- Typewriting machine. A. G. F. Kurowski. No. 1,440,089; Dec. 26.
- Typewriting machine. H. S. Lasher. No. 1,409,189; Mar. 14.
- Typewriting machine. E. G. Latta. No. 1,410,764; Mar. 28.
- Typewriting machine. K. A. Lehmann. No. 1,427,398; Aug. 29.
- Typewriting machine. C. W. Marsh. No. 1,417,472; May 23.
- Typewriting machine. K. E. Marsh. No. 1,424,841; Aug. 8.
- Typewriting machine. H. N. McKay. No. 1,402,366; Jan. 3.
- Typewriting machine. G. Navarre. No. 1,432,779; Oct. 24.

- Typewriting machine. E. A. Peterson. No. 1,410,594; Mar. 28.
- Typewriting machine. E. A. Peterson. No. 1,427,909; Sept. 5.
- Typewriting machine. J. Phelps. No. 1,422,617; July 11.
- Typewriting machine. H. Resch. No. 1,419,172; June 13.
- Typewriting machine. G. A. Seib. No. 1,421,581; July 4.
- Typewriting machine. G. A. Seib. No. 1,425,291; Aug. 8.
- Typewriting machine. G. A. Seib. No. 1,437,558; Dec. 5.
- Typewriting machine. A. W. Smith. No. 1,414,310; Apr. 25.
- Typewriting machine. A. W. Smith. No. 1,431,600; Oct. 10.
- Typewriting machine. A. W. Smith. No. 1,435,669; Nov. 14.
- Typewriting machine. J. A. B. Smith. No. 1,402,804; Jan. 10.
- Typewriting machine. J. A. B. Smith. No. 1,412,374; Apr. 11.
- Typewriting machine. J. A. B. Smith. Nos. 1,419,648-9; June 13.
- Typewriting machine. J. A. B. Smith. No. 1,419,698; June 13.
- Typewriting machine. J. A. B. Smith. No. 1,419,991; June 20.
- Typewriting machine. J. A. B. Smith. No. 1,425,293; Aug. 8.
- Typewriting machine. J. A. B. Smith. No. 1,425,910; Aug. 15.
- Typewriting machine. J. A. B. Smith. No. 1,428,265; Sept. 5.
- Typewriting machine. J. A. B. Smith. No. 1,428,864; Sept. 12.
- Typewriting machine. J. A. B. Smith. No. 1,433,857; Oct. 31.
- Typewriting machine. P. Steinkraus. No. 1,414,229; Apr. 25.
- Typewriting machine. A. K. Taylor. No. 1,409,619; Mar. 14.
- Typewriting machine. E. Thomas. No. 1,428,193; Sept. 5.
- Typewriting machine. R. W. Uhlig. No. 1,410,854; Mar. 28.
- Typewriting machine. R. W. Uhlig. No. 1,412,637; Apr. 11.
- Typewriting machine. J. Waldheim. No. 1,419,182; June 13.
- Typewriting machine. J. Waldheim. No. 1,425,921; Aug. 15.
- Typewriting machine. J. Waldheim. No. 1,433,920; Oct. 31.
- Typewriting machine. J. Waldheim. No. 1,440,118; Dec. 26.
- Typewriting machine. J. A. Wherry. No. 1,415,750; May 9.
- Typewriting machine. A. J. Wood. No. 1,418,506; June 6.
- Typewriting machine. O. Woodward. No. 1,427,143; Aug. 29.
- Typewriting machine. C. B. Yaw. No. 1,413,648; Apr. 25.
- Typewriting machine, Folding. L. B. Bridges. Nos. 1,434,733-4; Nov. 7.
- Typewriting machine for music. L. Fortoni. No. 1,429,862; Sept. 19.
- Typewriting machines, Arrangement of the paper-pressing rollers of. H. F. E. Baeseler. No. 1,426,243; Aug. 15.
- Typewriting machines, Back-space mechanism for. E. B. Hess and L. C. Myers. No. 1,417,905; May 30.
- Typewriting machines, Calculating attachment for. H. J. Halle. No. 1,405,209; Jan. 31.
- Typewriting machines, Carriage for. E. B. Hess and L. C. Myers. No. 1,415,031; May 9.
- Typewriting machines, Column-adjusting device for. H. Grützmann. No. 1,429,341; Sept. 19.
- Typewriting machines, Escapement device for. L. P. Diss. No. 1,429,066; Sept. 12.
- Typewriting machines, Foot-margin regulator and indicator attachment for. L. V. Larsen. No. 1,407,071; Feb. 21.
- Typewriting machines, Free wheel for the platen of. C. Kupfer. No. 1,438,603; Dec. 12.
- Typewriting machines, Ink-line-making attachment for. R. Guerrero P. No. 1,433,453; Oct. 24.
- Typewriting machines, Line-lock mechanism and margin-release mechanism for. E. B. Hess and L. C. Myers. No. 1,417,906; May 30.
- Typewriting machines, Line-spacing mechanism for. E. B. Hess and L. C. Myers. No. 1,417,907; May 30.
- Typewriting machines, Manifold attachment for. M. L. Cossitt. No. 1,407,931; Feb. 28.
- Typewriting machines, Margin scale for. E. B. Hess and L. C. Myers. No. 1,417,903; May 30.
- Typewriting machines, Paper-feed pressure device for. A. Utz. No. 1,428,569; Sept. 12.
- Typewriting machines, Paper-feeding mechanism for. L. Jensen. Nos. 1,436,397,8; Nov. 21.
- Typewriting machines, Paper finger for. F. W. Hillard. No. 1,408,003; Feb. 28.
- Typewriting machines, Paper-setting yoke in. E. Canning. No. 1,411,707; Apr. 4.
- Typewriting machines, Ribbon guide for. E. B. Hess and L. C. Myers. No. 1,417,909; May 30.
- Typewriting machines, Ribbon operating and guiding mechanism for. E. B. Hess and L. C. Myers. No. 1,417,908; May 30.
- Typewriting machines, Scales for. E. B. Hess and L. C. Myers. No. 1,417,911; May 30.
- Typewriting machines, Sound-muffling pad for. B. J. Dowd. No. 1,420,082; June 20.
- Typewriting machines, Sound-muffling pad for. L. C. Myers. No. 1,419,293; June 13.
- Typewriting machines, Tabulating mechanism for. F. P. Gorin. No. 1,411,997; Apr. 4.
- Typewriters, Carriage-shifting mechanism for. R. A. Loomis. No. 1,423,443; July 18.
- Typewriters, Copy holder for use with. A. E. King. No. 1,405,040; Jan. 31.
- Typewriters, Manifold attachment for. J. Q. Sherman. No. 1,418,480; June 6.
- Typewriters, Manifold attachment for. M. L. Cossitt. Nos. 1,407,932-5; Feb. 28.
- Typewriters, Manifold attachment for. M. L. Cossitt. No. 1,408,345; Feb. 28.
- Typewriters, Manifold attachment for. M. L. Cossitt. No. 1,432,156; Oct. 17.
- Typewriters, Manifold attachment for. M. L. Cossitt. Nos. 1,433,181-3; Oct. 24.
- Typewriters, Manifold attachment for. M. L. Cossitt. No. 1,436,979; Nov. 28.
- Typewriters, Manifold attachment for. M. L. Cossett. No. 1,439,403; Dec. 19.
- Typewriters, Margin-setting device for. M. Graff. No. 1,413,721; Apr. 25.
- Typewriters, Method and apparatus for fixing slot-back types upon the type levers of. T. E. Büschmann. No. 1,428,141; Sept. 5.
- Typewriters, Multi-colored-ribbon shift for. M. Garbell. No. 1,429,678; Sept. 19.
- Typewriters of any make, Apparatus for inking ribbons for. O. Frankenbüsch. No. 1,422,757; July 11.
- Typewriters, Platen-carriage mechanism for. O. A. Hokanson. No. 1,427,470; Aug. 29.
- Typewriters, Ribbon attachment especially adapted for. M. L. Cossitt. No. 1,418,624; June 6.
- Typewriters, Ribbon attachment for. W. H. Sinclair. No. 1,420,874; June 27.
- Typewriters, Ribbon-inking attachment for. H. E. Delbare. No. 1,414,865; May 2.
- Typewriters, Ribbon mechanism for. O. A. Hokanson. No. 1,421,780; July 4.
- Typewriters, Ribbon vibrator for. O. A. Hokanson. No. 1,432,183; Oct. 17.
- Typewriters, Sliding support for. J. A. Nott. No. 1,426,762; Aug. 22.
- Typewriters, Support and shock absorber for. L. Smith. No. 1,434,923; Nov. 7.
- Typewriters, Work web for. J. A. B. Smith. No. 1,428,264; Sept. 5.
- Typing apparatus for labels. A. Wilden. No. 1,433,493; Oct. 24.
- Typograph machines, Electrically-heated melting pot for. G. O. Cromwell. No. 1,414,689; May 2.
- Typograph matrix-setting and line-casting machine. J. Dörneth. No. 1,414,775; May 2.
- Typographic composing machine. W. Snelling and L. H. Bellavoine. No. 1,411,752; Apr. 4.
- Typographic machine. P. W. Druitt and W. R. Gilpin. No. 1,419,030; June 6.
- Typographic machines, Matrix holder and elevator for. F. W. Letsch. No. 1,410,330; Mar. 21.
- Typographic machines, Multiple magazine for. F. W. Letsch. No. 1,410,331; Mar. 21.
- Typographic machines, Safety mechanism for. F. W. Letsch. No. 1,410,332; Mar. 21.
- Typographic machines, Space-casting mechanism of. P. W. Druitt and W. R. Gilpin. No. 1,407,460; Feb. 21.
- Typographical casting machine. D. S. Kennedy. No. 1,415,454; May 9.
- Typographical casting machine. D. S. Kennedy. No. 1,431,741; Oct. 10.
- Typographical casting machine. D. S. Kennedy. No. 1,440,074; Dec. 26.
- Typographical composing and casting machine. D. S. Kennedy. No. 1,406,564; Feb. 14.
- Typographical composing, casting, and distributing machine. J. S. Thompson. No. 1,427,501; Aug. 29.
- Typographical composing machine. D. S. Kennedy. No. 1,406,563; Feb. 14.
- Typographical distributing machine. D. S. Kennedy. No. 1,405,518; Feb. 7.
- Typographical distributing machine. D. S. Kennedy. No. 1,431,743; Oct. 10.
- Typographical distributing machine. D. S. Kennedy. No. 1,440,086; Dec. 26.
- Typographical machine. T. S. Homans. No. 1,426,194; Aug. 15.
- Typographical machine. D. S. Kennedy. No. 1,424,917; Aug. 8.
- Typographical machine. D. S. Kennedy. No. 1,431,742; Oct. 10.
- Typographical machine. G. E. Marlatt. No. 1,433,087; Oct. 24.
- Typographical machine. L. C. Tinsley. No. 1,406,107; Feb. 7.

Alphabetical list of inventions—Continued.

- Typographical machine. M. L. Van Keuren. No. 1,439,586; Dec. 19.
- Typographical composing and casting machines, Distributing mechanism of. J. E. Billington. No. 1,427,511; Aug. 29.
- Typographical composing and casting machines, Distributing mechanism of. R. D. Carter. No. 1,427,517; Aug. 29.
- Typographical composing machines, Distributing mechanism of. T. Drake and R. D. Carter. No. 1,424,887; Aug. 8.
- Typographical composing machines, Escapement mechanism of. T. Drake and E. Gayter. No. 1,440,066; Dec. 26.
- Typographical machines, Automatic cut-out for. E. W. Pierson. No. 1,406,075; Feb. 7.
- Typographical machines, Device for automatically elevating the assemblers of. W. C. Looney. No. 1,434,391; Nov. 7.
- Typographical machines, Metal feeder for. W. P. Zent. No. 1,416,770; May 23.
- Typographical mechanism. H. G. Pottle. No. 1,414,707; May 2.
- Typographical slug. L. C. Tinsley. No. 1,427,706; Aug. 29.
- Typographical slugs, Mold for. L. C. Tinsley. No. 1,428,459; Sept. 5.
- Umbrella. A. Beaty. No. 1,411,560; Apr. 4.
- Umbrella and cane holder. E. I. Snickers. No. 1,406,097; Feb. 7.
- Umbrella, Folding. E. A. Ostman. No. 1,436,320; Nov. 21.
- Umbrella-handle lighting device. L. Walicki and C. Bober. No. 1,427,138; Aug. 29.
- Umbrella lock. L. Shoemaker. No. 1,428,810; Sept. 12.
- Umbrella rib and stretcher. W. S. Evans. No. 1,405,824; Feb. 7.
- Umbrella-rib-top retainer. F. C. Ernst. No. 1,405,402; Feb. 7.
- Umbrella ribs and stretchers, Connection of. S. S. Fretz. Sr. No. 1,405,911; Feb. 7.
- Umbrella ribs, Cap for the tips of. S. S. Fretz, sr. No. 1,431,446; Oct. 10.
- Umbrella ring. F. P. De Nobili. No. 1,410,173; Mar. 21.
- Umbrella runner. A. G. Brandt. No. 1,434,942; Nov. 7.
- Umbrella, Self-opening. S. S. Fretz, sr. No. 1,425,761; Aug. 15.
- Umbrella stand. J. C. Romer. No. 1,413,432; Apr. 18.
- Umbrella stretchers and ribs, Fastener for. A. G. Brandt. No. 1,417,491; May 30.
- Umbrellas, Identifying tag for. E. L. Gaines. No. 1,407,144; Feb. 21.
- Umbrellas, parasols, etc., Identification means for. D. Hirsch. No. 1,411,096; Mar. 28.
- Umbrellas when closed, Band for engaging and holding the ends of the ribs of. J. H. Swift. No. 1,425,806; Aug. 15.
- Unbalance, Means for and method of testing. H. A. Affel. No. 1,414,391; May 2.
- Unbalance, Method of and means for determining. A. B. Clark and G. Crisson. No. 1,407,983; Feb. 28.
- Uncorking device. M. Voglmayer. No. 1,431,998; Oct. 17.
- Uncoupling device. I. Moeller and R. Arkwright. No. 1,439,833; Dec. 26.
- Uncoupling device. C. W. Nicholas. No. 1,428,051; Sept. 5.
- Uncoupling device. A. C. Penman. No. 1,432,204; Oct. 17.
- Uncoupling device. W. J. Tangerman. No. 1,404,806; Jan. 31.
- Uncoupling mechanism. W. Kelso. No. 1,417,606; May 30.
- Uncoupling mechanism. I. H. Milliken and W. J. Regan. Nos. 1,417,543-8; May 30.
- Uncoupling mechanism. W. J. Regan. No. 1,417,567; May 30.
- Undercoating composition. L. Crossman. No. 1,425,510; Aug. 15.
- Undercutter. W. L. Bartell. No. 1,420,234; June 20.
- Undercutting. Machine for. F. L. O. Wadsworth. No. 1,408,662; Mar. 7.
- Underfeed furnace. A. H. Blackburn. No. 1,404,569; Jan. 24.
- Underframe and draft-arm connection. G. N. Goodlin. No. 1,422,562; July 11.
- Undergarment. M. Donaldson. No. 1,407,390; Feb. 21.
- Undergarment. S. A. Hanson. No. 1,417,992; May 30.
- Undergarment. N. Lippman. No. 1,414,986; May 2.
- Undergarment. C. R. McFarland. No. 1,422,281; July 11.
- Undergarment. M. Moore. No. 1,420,728; June 27.
- Undergarment. E. B. Mower. No. 1,422,604; July 11.
- Undergarment. H. L. Redmond. No. 1,405,000; Jan. 31.
- Undergarment. H. L. Redmond. Nos. 1,414,202-6; Apr. 25.
- Undergarment. L. V. Simons. No. 1,432,266; Oct. 17.
- Undergarment. I. Stern. No. 1,412,495; Apr. 11.
- Undergarment clasp. H. Bain. No. 1,438,354; Dec. 12.
- Undergarment, Lady's. S. D. Bausher and J. D. Reed. No. 1,407,626; Feb. 21.
- Undergarment, Lady's. M. N. Mills. No. 1,419,940; June 20.
- Undergarments, Adjustable crotch for. S. F. Swantees. No. 1,432,804; Oct. 24.
- Underreamer. R. L. Burns. No. 1,403,388; Jan. 10.
- Underreamer. B. F. Fehlman. No. 1,420,918; June 27.
- Underreamer. C. B. Gibson, Jr. No. 1,439,093; Dec. 19.
- Underreamer. E. H. Newkirk. No. 1,414,704; May 2.
- Underreamer. J. Swan, Jr. No. 1,422,236; July 11.
- Underskirt. M. O. McMahan. No. 1,433,635; Oct. 31.
- Underwaist. M. M. Sturgis. No. 1,415,616; May 9.
- Underwear. C. S. Erlanger. No. 1,402,406; Jan. 3.
- Underwear garment. C. M. Walker. No. 1,425,726; Aug. 15.
- Underwear supporter, Adjustable elastic shoulder. A. G. Walsh. No. 1,424,329; Aug. 1.
- Union suit. W. P. Sweney. No. 1,435,756; Nov. 14.
- Universal coupling or joint. J. Knight. No. 1,427,110; Aug. 29.
- Universal gauge. H. H. Huesman. No. 1,433,820; Oct. 31.
- Universal generator coupling. W. Ball. No. 1,413,375; Apr. 18.
- Universal joint. E. T. Banks. No. 1,410,791; Mar. 28.
- Universal joint. G. T. Forsyth. No. 1,403,679; Jan. 17.
- Universal joint. G. T. Forsyth. No. 1,406,361; Feb. 14.
- Universal joint. M. C. Frins. No. 1,403,856; Jan. 17.
- Universal joint. M. C. Frins. No. 1,413,848; Apr. 25.
- Universal joint. R. A. Hartmann. No. 1,424,299; Aug. 1.
- Universal joint. A. G. Herreshoff and A. H. Leipert. No. 1,414,411; May 2.
- Universal joint. R. Keck. No. 1,418,380; June 6.
- Universal joint. W. O. Kuhn. No. 1,434,443; Nov. 7.
- Universal joint. W. C. Morton. No. 1,423,577; July 25.
- Universal joint. B. O. Rhodes. No. 1,417,689; May 30.
- Universal joint. E. H. Sherbondy. No. 1,414,377; May 2.
- Universal joint. E. H. Smith. No. 1,412,577; Apr. 11.
- Universal joint. W. H. Thieme. No. 1,411,069; Mar. 28.
- Universal joint. W. H. Thieme. No. 1,418,689; June 6.
- Universal joint. W. H. Thieme. No. 1,421,617; July 4.
- Universal joint. W. H. Thieme. No. 1,436,785; Nov. 28.
- Universal joint. F. W. Toan. No. 1,407,361; Feb. 21.
- Universal joint. H. N. Wayne. No. 1,424,051; July 25.
- Universal joint and brake-drum unit. A. M. Leoni and A. Fischer. No. 1,415,371; May 9.
- Universal lubricating device. C. Guggenbuehler. No. 1,440,087; Dec. 26.
- Universal spring box. C. A. Psilander. No. 1,409,775; Mar. 14.
- Universal test indicator. R. Miolla. No. 1,413,232; Apr. 18.
- Universal winder head. H. G. Johnson. No. 1,414,514; May 2.
- Unloader, Multistage. G. M. Richards. No. 1,422,376; July 11.
- Unloading apparatus. C. H. Beattie. No. 1,426,706; Aug. 22.
- Unloading apparatus. G. C. Chadwick. No. 1,422,926; July 18.
- Unloading device. E. J. Gass and D. W. Thurston. No. 1,416,190; May 16.
- Unloading device. R. G. Isenberg and H. E. Hedren. No. 1,410,680; Mar. 28.
- Unloading machines, Conveying mechanism for. F. E. Arndt. No. 1,437,581; Dec. 5.
- Unloading rack. A. L. Wertz. No. 1,429,262; Sept. 19.
- Unwinder. F. M. Joslin. No. 1,412,529; Apr. 11.
- Uppender. C. E. Pope. No. 1,437,547; Dec. 5.
- Upholstering press. J. Kramer, F. O. Kuehne, Jr., and C. T. Metzger. No. 1,412,876; Apr. 18.
- Upholstery and the product produced thereby, Forming imitation-leather. R. Dwight. No. 1,426,720; Aug. 22.
- Upholstery tacking strip. T. Mahoney. No. 1,411,973; Apr. 4.
- Upper-forming and other machines, Work-positioning mechanism for. M. Brock. No. 1,419,213; June 13.
- Upper-forming machine. A. Bates. No. 1,425,503; Aug. 15.
- Upper-pulling machine. A. Bates. No. 1,430,529; Oct. 3.
- Upper-shaping machine. A. Bates. No. 1,419,202; June 13.
- Upper-shaping machine. A. Bates. No. 1,419,204; June 13.
- Upper-shaping machine. A. Bates. No. 1,426,342; Aug. 22.
- Upper-shaping machine. M. Brock. No. 1,414,498; May 2.
- Upper-shaping machine. J. Gouldbourn and F. Ricks. No. 1,432,105; Oct. 17.
- Uppers, Machine and method for use in shaping. M. Brock. No. 1,425,942; Aug. 15.
- Uppers, Machine for updrawing. C. C. Blake and M. E. Fernald. No. 1,409,521; Mar. 14.
- Uppers over lasts, Machine for shaping. D. A. Moyer. No. 1,429,291; Sept. 19.
- Uppers over lasts, Machine for working. W. G. Cheney. No. 1,432,532; Oct. 17.
- Uppers over lasts, Machine for working. B. Jorgensen. No. 1,413,589; Apr. 25.
- Uppers over lasts, Machine for working. B. Jorgensen. No. 1,423,613; July 25.
- Uppers over lasts, Machine for working. B. Jorgensen. No. 1,430,559; Oct. 3.
- Uppers over lasts, Machine for working. C. F. Pym. No. 1,436,194; Nov. 21.
- Uppriper. P. H. Cook. No. 1,435,451; Nov. 14.
- Urea from ammonia and carbon dioxide, Manufacture of. N. W. Krase. No. 1,429,953; Sept. 26.
- Urea from cyanamide, Producing. E. Lie. No. 1,419,157; June 13.
- Urea from lime nitrogen, Producing. O. Nydegger and H. Schellenberg. No. 1,417,277; May 23.

- Urea, Manufacturing. C. Bosch and W. Meiser. No. 1,429,483; Sept. 19.
- Ureas, Producing tetra-substituted. A. P. Tanberg. No. 1,437,027; Nov. 28.
- Urinal. G. Müller. No. 1,423,537; July 25.
- Urinal trap guard and disinfecting device. G. A. Sleight. No. 1,480,598; Oct. 3.
- Urinals and water-closets, Disinfectant holder for. A. Markowsky. No. 1,411,218; Mar. 28.
- Urn and faucet, Automatic coffee and cream. F. J. Messman. No. 1,413,755; Apr. 25.
- Urn, Coffee. H. J. Strohbach. No. 1,423,547; July 25.
- Urn, Perpetual-flower. I. T. Welch. No. 1,427,180; Aug. 29.
- Utensil. M. Szymkiewicz. No. 1,419,423; June 13.
- Utensil, Baking. E. G. Gereke. No. 1,437,512; Dec. 5.
- Utensil, Camp. H. H. Jewett. No. 1,423,612; July 25.
- Utensil, Cooking. J. H. Curtis. No. 1,408,692; Mar. 7.
- Utensil, Cooking. B. L. Wever. No. 1,422,156; July 11.
- Utensil, Electrically-heated. J. F. Lamb. No. 1,422,721; July 11.
- Utensil, Electrically-heated. J. F. Lamb. No. 1,439,965; Dec. 26.
- Utensil lifter. C. D. Lockman and C. Postel, jr. No. 1,435,405; Nov. 14.
- Utensil, Smoker's. S. F. Kohn. No. 1,427,393; Aug. 29.
- Utility clamp. T. J. Owens. No. 1,436,108; Nov. 21.
- V-notch liquid meter. W. E. Turner. No. 1,414,385; May 2.
- V-type internal-combustion engine. S. S. Guy. No. 1,416,348; May 16.
- Vaccines, Preparation of detoxicated. D. Thomson. No. 1,409,796; Mar. 14.
- Vacuum and pressure trap, Water-sealed. A. Harrison. No. 1,425,857; Aug. 15.
- Vacuum apparatus. T. and J. R. Ray. No. 1,428,557; Sept. 12.
- Vacuum apparatus, Apparatus for maintaining and removing liquid seal for. O. Minton. No. 1,423,242; July 18.
- Vacuum apparatus, Electric. M. Schenkel. No. 1,410,606; Mar. 28.
- Vacuum brake. R. W. Catching. No. 1,403,290; Jan. 10.
- Vacuum breaker. K. Baumann. No. 1,432,272; Oct. 17.
- Vacuum breaker. R. N. Ehrhart. No. 1,407,136; Feb. 21.
- Vacuum capping machine. T. L. Taliaferro. No. 1,403,879; Jan. 17.
- Vacuum cleaner. A. W. Anderson. No. 1,409,910; Mar. 21.
- Vacuum cleaner. G. A. Brachhausen. No. 1,405,095; Jan. 31.
- Vacuum cleaner. J. J. Merithew. No. 1,414,967; May 2.
- Vacuum cleaner. E. A. Reeves. Nos. 1,429,530-3; Sept. 19.
- Vacuum cleaner. N. A. Throop. No. 1,413,545; Apr. 18.
- Vacuum cleaner. W. J. Wise and T. O. Adams. No. 1,420,172; June 20.
- Vacuum cleaner. W. J. Wise and T. O. Adams. No. 1,428,734; Sept. 12.
- Vacuum cleaner, Electrically-operated. G. R. Bimm. No. 1,415,773; May 9.
- Vacuum-cleaner nozzles, Means for adjusting. A. A. Warner. No. 1,429,383; Sept. 19.
- Vacuum cleaner, Suit. F. M. Pesarillo. No. 1,426,765; Aug. 22.
- Vacuum cleaners, Adjustable rear support for. G. Clements. No. 1,431,634; Oct. 10.
- Vacuum cleaners, Dust receptacle for. F. J. Deutsch. No. 1,428,583; Sept. 12.
- Vacuum cleaners, Dust receptacle for. F. K. Deutsch and E. Farkas. No. 1,433,941; Oct. 31.
- Vacuum cleaners, Nozzle or nozzle block for. I. J. Owen. No. 1,404,888; Jan. 31.
- Vacuum cleaning and dusting apparatus. G. O. Lehmann. No. 1,429,893; Sept. 19.
- Vacuum container. C. E. Glessner. No. 1,421,685; July 4.
- Vacuum container. H. Goldsmith. No. 1,418,914; June 6.
- Vacuum container. W. H. McLain. No. 1,430,575; Oct. 3.
- Vacuum cover. F. R. Crist. No. 1,411,323; Apr. 4.
- Vacuum duster. B. E. Michael. No. 1,433,021; Oct. 24.
- Vacuum electric apparatus. P. C. Hewitt. No. 1,417,912; May 30.
- Vacuum feed. J. J. Kieran. No. 1,404,529; Jan. 24.
- Vacuum-feed indicator. H. I. Hawthurst. No. 1,409,443; Mar. 14.
- Vacuum feeding apparatus. E. A. Rockwell. No. 1,415,195; May 9.
- Vacuum filling machine. A. J. Gosselin. No. 1,416,345; May 16.
- Vacuum gauge. V. Whiteside. No. 1,430,610; Oct. 3.
- Vacuum-insulated can. C. R. Gleason. No. 1,437,647; Dec. 5.
- Vacuum jet and system of operating the same. T. L. Davenport. No. 1,423,198; July 18.
- Vacuum liquid-supply apparatus. H. Kershaw. No. 1,431,816; Oct. 10.
- Vacuum liquid-supply system. E. A. Rockwell. No. 1,420,753; June 27.
- Vacuum oiling system. F. W. Thomas and M. D. Kimball. No. 1,421,858; July 4.
- Vacuum-package apparatus. H. L. Mead. No. 1,434,018; Oct. 31.
- Vacuum-pan condenser. J. J. Mojonniere. No. 1,431,322; Oct. 10.
- Vacuum pocket. F. P. Reed. No. 1,432,731; Oct. 17.
- Vacuum, Process and apparatus for producing and maintaining a. T. Tibbets. No. 1,427,656; Aug. 29.
- Vacuum-producing and boiler-feeding apparatus. H. A. Young. No. 1,438,008; Dec. 5.
- Vacuum rectifier. J. Nienhold. No. 1,434,310; Oct. 31.
- Vacuum-regulating apparatus. S. H. Hall. No. 1,420,035; June 20.
- Vacuum system. A. C. Van Kirk. No. 1,405,363; Jan. 31.
- Vacuum tank. H. B. Coats. No. 1,438,745; Dec. 12.
- Vacuum tube. G. Holst and E. Oosterhuis. No. 1,410,756; Mar. 28.
- Vacuum tube. L. R. Spengeman. No. 1,438,969; Dec. 19.
- Vacuum-tube circuits and operating them. R. C. Mathes and H. S. Read. No. 1,426,755; Aug. 22.
- Vacuum-tube manufacture. F. C. Fischer. No. 1,409,339; Mar. 14.
- Vacuum-tube socket. J. O. Gargan. No. 1,432,992; Oct. 24.
- Vacuum tubes, Assembling device for. W. J. Malcolmson and H. Blount. No. 1,403,800; Jan. 17.
- Vacuum tubes, Leading-in wire assembly for. S. Thronsen. No. 1,432,926; Oct. 24.
- Vacuum vessel. W. B. Walker and C. R. H. Visscher. No. 1,421,325; June 27.
- Valise. T. Hokkanen. No. 1,413,852; Apr. 25.
- Valve. J. M. Allen. No. 1,417,291; May 23.
- Valve. M. Allen. No. 1,438,081; Dec. 5.
- Valve. H. B. Babson and J. J. Stampen. No. 1,416,771; May 23.
- Valve. F. C. Blanchard. No. 1,427,256; Aug. 29.
- Valve. B. P. Blauert. No. 1,410,881; Mar. 28.
- Valve. L. Block. No. 1,411,904; Apr. 4.
- Valve. T. Brabson. No. 1,423,178; July 18.
- Valve. J. W. Brooks. No. 1,439,062; Dec. 19.
- Valve. J. B. Burdett. No. 1,432,527; Oct. 17.
- Valve. A. W. Carlson. No. 1,408,340; Feb. 28.
- Valve. J. H. Christman. No. 1,405,968; Feb. 7.
- Valve. W. C. Connelly. No. 1,438,747; Dec. 12.
- Valve. R. P. Cooley. No. 1,422,178; July 11.
- Valve. F. J. Couch. No. 1,416,175; May 16.
- Valve. A. A. Cryer. No. 1,436,438; Nov. 21.
- Valve. J. P. Cullison. No. 1,430,361; Sept. 26.
- Valve. O. R. Davis. No. 1,412,927; Apr. 18.
- Valve. P. Eckenroth. No. 1,404,103; Jan. 17.
- Valve. W. Ehemann and G. Gaitsch. No. 1,437,750; Dec. 5.
- Valve. H. M. Eller and O. Carlson. No. 1,414,118; Apr. 25.
- Valve. A. J. English. No. 1,427,680; Aug. 29.
- Valve. J. J. Finney. No. 1,429,199; Sept. 12.
- Valve. G. L. Fish. No. 1,420,994; June 27.
- Valve. J. B. Fisher. No. 1,426,560; Aug. 22.
- Valve. S. W. Fransson. No. 1,433,129; Oct. 24.
- Valve. J. Garlick. No. 1,418,911; June 6.
- Valve. L. W. Greve. No. 1,425,644; Aug. 15.
- Valve. G. P. Haynes. No. 1,421,687; July 4.
- Valve. P. J. Hubin. No. 1,412,746; Apr. 11.
- Valve. P. J. Hussey. No. 1,414,416; May 2.
- Valve. D. C. Jester. No. 1,406,869; Feb. 14.
- Valve. L. R. Jones. No. 1,404,028; Jan. 17.
- Valve. O. E. Jorgensen. No. 1,431,160; Oct. 10.
- Valve. E. B. Lane. No. 1,415,249; May 9.
- Valve. J. A. Le Cain. No. 1,405,525; Feb. 7.
- Valve. T. W. Lees. No. 1,423,340; July 18.
- Valve. F. W. Leevvers. No. 1,414,141; Apr. 25.
- Valve. Z. Littman. No. 1,419,678; June 13.
- Valve. H. M. Lofton. No. 1,433,139; Oct. 24.
- Valve. F. A. Logan. No. 1,435,899; Nov. 14.
- Valve. R. H. Lowndes. No. 1,435,537; Nov. 14.
- Valve. J. A. Mackie and F. W. Waddell. No. 1,436,768; Nov. 28.
- Valve. T. J. Madigan. No. 1,410,205; Mar. 21.
- Valve. A. G. Maranville. No. 1,426,894; Aug. 22.
- Valve. G. Massip. No. 1,406,748; Feb. 14.
- Valve. J. D. Maxwell. No. 1,420,662; June 27.
- Valve. S. T. McLellan. No. 1,439,565; Dec. 19.
- Valve. J. H. Mead. No. 1,434,447; Nov. 7.
- Valve. T. W. Monahan. No. 1,419,290; June 13.
- Valve. N. L. Monsarrat. No. 1,409,393; Mar. 14.
- Valve. F. P. Moran. No. 1,402,082; Jan. 3.
- Valve. K. O. Nelson and O. Albert. No. 1,438,325; Dec. 12.
- Valve. N. Palmaffy. No. 1,423,966; July 25.
- Valve. C. E. Peckham. Nos. 1,435,549-50; Nov. 14.
- Valve. A. E. Powell. No. 1,402,314; Jan. 30.
- Valve. H. B. Redding. No. 1,438,967; Dec. 19.
- Valve. O. C. F. Riepling. No. 1,409,470; Mar. 14.
- Valve. O. Rodriguez. No. 1,434,665; Nov. 7.
- Valve. J. F. Rogers and J. S. McClimon. No. 1,402,181; Jan. 3.
- Valve. A. V. Sammis. No. 1,409,116; Mar. 7.
- Valve. E. W. Scribner and R. Depee. No. 1,405,631; Feb. 7.
- Valve. W. W. Shorday. No. 1,418,482; June 6.
- Valve. L. Skinner. No. 1,419,474; June 13.
- Valve. C. P. Smith. No. 1,406,096; Feb. 7.
- Valve. O. A. Sorensen. No. 1,419,650; June 13.
- Valve. R. Springborn. No. 1,425,708; Aug. 15.
- Valve. B. E. Strickland. No. 1,413,504; Apr. 18.
- Valve. T. W. Thaxton. No. 1,407,358; Feb. 21.
- Valve. S. J. Thibodeaux and H. L. Raulerson. No. 1,434,267; Oct. 31.
- Valve. F. Tibble. No. 1,412,722; Apr. 11.

Alphabetical list of inventions—Continued.

- Valve. J. Van Brunt. No. 1,416,391; May 16.
 Valve. E. G. Van Wie. No. 1,434,416; Nov. 7.
 Valve. L. Wasem. No. 1,409,127; Mar. 7.
 Valve. H. Wilhelm. Nos. 1,416,590-1; May 16.
 Valve. C. C. Williams. No. 1,438,203; Dec. 12.
 Valve. W. G. Wilson. No. 1,416,431; May 16.
 Valve. A. J. Wissing. No. 1,440,198; Dec. 26.
 Valve. A. B. Wood. No. 1,406,799; Feb. 14.
 Valve. E. W. Yearsley. No. 1,409,270; Mar. 14.
 Valve. Accelerating dry-pipe. G. E. Hibbard. No. 1,420,192; June 20.
 Valve. Accumulator safety. H. A. Jensenius. No. 1,406,026; Feb. 7.
 Valve-actuating mechanism for stock-watering bowls. J. R. Olson. No. 1,415,264; May 9.
 Valve, Air. A. Bowser. No. 1,403,286; Jan. 10.
 Valve, Air. L. W. Greve. No. 1,425,643; Aug. 15.
 Valve, Air. T. Mellor. No. 1,439,744; Dec. 26.
 Valve, Air-tube. J. J. Kinehan. No. 1,409,453; Mar. 14.
 Valve and actuating means. G. A. Tuck. No. 1,434,637; Nov. 7.
 Valve and cap for drums and the like vessels. A. Henning. No. 1,435,004; Nov. 7.
 Valve and gauge. Combined inflating. H. S. McCormick and A. Glauber. No. 1,403,797; Jan. 17.
 Valve and gauge. Maximum-pressure inflating. S. B. Noé. No. 1,423,447; July 18.
 Valve and governor. Expansion. A. K. Hinchman. No. 1,406,014; Feb. 7.
 Valve and making same. A. M. Stewart. No. 1,435,029; Nov. 7.
 Valve and nozzle. W. Noble. No. 1,403,056; Jan. 10.
 Valve, and operating mechanism therefor, Tank outlet. E. Posson. No. 1,426,008; Aug. 15.
 Valve and pipe union. Combined. J. O. Hofberg. No. 1,424,305; Aug. 1.
 Valve and piston. Combined. F. Stickel. No. 1,422,234; July 11.
 Valve and valve stem. Combined. F. P. Hinckley. No. 1,431,658; Oct. 10.
 Valve apparatus, Reducing. W. S. Noyes. No. 1,424,846; Aug. 8.
 Valve attachment, Muffing-breather-. S. B. Gold. No. 1,411,693; Apr. 4.
 Valve, Automatic. J. L. Ferris. No. 1,412,465; Apr. 11.
 Valve, Automatic. E. J. Fortier. No. 1,427,098; Aug. 29.
 Valve, Automatic. C. Schneider. No. 1,413,938; Apr. 25.
 Valve, Automatic and regulable liquid-fuel injection. W. B. S. Whaley. No. 1,411,143; Mar. 28.
 Valve, Automatic cock. H. Aass. No. 1,435,781; Nov. 14.
 Valve, Automatic discharge. J. Pittman. No. 1,416,869; May 23.
 Valve, Automatic expansion. J. Frankenberg. No. 1,402,926; Jan. 10.
 Valve, Automatic gas. W. Hanson. No. 1,430,502; Sept. 26.
 Valve, Automatic gas. F. L. Putnam and G. Eberspacher. No. 1,409,446; Mar. 14.
 Valve, Automatic gas-control. P. Benvisuto and L. Mombaruzzo. No. 1,430,351; Sept. 26.
 Valve, Automatic gasoline-shut-off. H. R. Jackson. No. 1,425,656; Aug. 15.
 Valve, Automatic plate. M. Riesner. No. 1,413,059; Apr. 18.
 Valve, Automatic plate. M. Riesner. No. 1,417,690; May 30.
 Valve, Automatic plate. M. Riesner. (Reissue.) No. 1,472; Oct. 17.
 Valve, Automatic safety. W. B. S. Whaley. No. 1,428,928; Sept. 12.
 Valve, Automatic safety check. C. H. Freer. No. 1,437,136; Nov. 28.
 Valve, Automatic steam stop. W. B. Stork. No. 1,424,949; Aug. 8.
 Valve, Automatically-controlled flush. E. C. Curtis. No. 1,412,925; Apr. 18.
 Valve, Bleeding. L. A. Hornburg. No. 1,430,507; Sept. 26.
 Valve, Blow-off. W. A. Kitts, jr. No. 1,414,651; May 2.
 Valve, Blow-off. W. A. Kitts, jr. No. 1,437,426; Dec. 5.
 Valve, Blow-off. D. R. Yarnall. No. 1,439,720; Dec. 26.
 Valve, Breather-plug check. B. O. Jenkins and J. F. Traylor. No. 1,432,187; Oct. 17.
 Valve, By-pass. C. J. Dewey. No. 1,417,808; May 30.
 Valve, By-pass. F. H. Schaefer. No. 1,417,770; May 30.
 Valve-cage remover. R. W. Magna. No. 1,437,983; Dec. 5.
 Valve cap. D. W. Mannhardt. No. 1,430,092; Sept. 26.
 Valve cap, Air-. B. G. Hackett. No. 1,403,406; Jan. 10.
 Valve, Check. J. Dome. No. 1,421,184; June 27.
 Valve, Check. J. W. Stevens. No. 1,404,804; Jan. 31.
 Valve, Chimney. K. Weinel. No. 1,420,397; June 20.
 Valve cock, Lubricated. O. Jacobsen. No. 1,440,083; Dec. 26.
 Valve, Coin-controlled air. M. Gibbs and J. H. Davis. No. 1,427,529; Aug. 29.
 Valve collar, Standing-. J. F. Hallman. No. 1,430,986; Oct. 3.
 Valve, Combined reservoir and brake. A. G. Shaver. No. 1,411,526; Apr. 4.
 Valve, Compensating. S. G. Neal. Nos. 1,433,405-7; Oct. 24.
 Valve, Compound. E. P. Rich. No. 1,428,254; Sept. 5.
 Valve, Compound engine. J. T. Hinton. No. 1,409,110; Mar. 7.
 Valve, Constant-volume. M. J. Dewey. No. 1,407,844; Feb. 28.
 Valve construction. G. E. Hazard. No. 1,423,323; July 18.
 Valve construction. H. P. Kraft. No. 1,403,965; Jan. 17.
 Valve construction. J. D. Maxwell. No. 1,420,663; June 27.
 Valve construction. Tank-. F. C. D. Wilkes. No. 1,434,939; Nov. 7.
 Valve control, Chute-. J. E. West. No. 1,431,609; Oct. 10.
 Valve-control device. O. Hayes. No. 1,425,088; Aug. 8.
 Valve control for automatic sprinkler systems. W. O. Reals. No. 1,432,257; Oct. 17.
 Valve-controlling apparatus, Thermostatic. P. Mirk. No. 1,408,120; Feb. 28.
 Valve-controlling device. J. Peil. No. 1,436,523; Nov. 21.
 Valve-controlling means, Piston-. G. L. Kluefer. No. 1,431,589; Oct. 10.
 Valve-controlling mechanism. G. Corbella and G. Longoni. No. 1,414,624; May 2.
 Valve coupling for liquid-distributing systems. S. Wyble. No. 1,433,494; Oct. 24.
 Valve cut-off and speed indicator. V. Z. Caracristi. No. 1,419,612; June 13.
 Valve, Cut-off relief and automatic control air-brake. E. P. Clauss. No. 1,403,293; Jan. 10.
 Valve device. R. B. Armstrong and G. Paterson. No. 1,402,718; Jan. 3.
 Valve device. H. C. Brehmer. No. 1,423,988; July 25.
 Valve device. J. Needham. No. 1,402,527; Jan. 3.
 Valve device. W. P. Skiffington. No. 1,436,412; Nov. 21.
 Valve device, Brake-. S. W. Dudley. No. 1,414,807; May 2.
 Valve device, Brake-. A. W. Rendell. No. 1,403,870; Jan. 17.
 Valve device, Combination. H. O. Spencer. No. 1,427,239; Aug. 29.
 Valve device, Feed-. C. C. Farmer. No. 1,430,893; Oct. 3.
 Valve, Differential dry-pipe. P. Evans. No. 1,418,140; May 30.
 Valve, Dispensing. C. L. Bastian and H. Mathisen. No. 1,428,744; Sept. 12.
 Valve, Dispensing. L. Kooperstein. No. 1,416,037; May 16.
 Valve, Dispensing. L. Kooperstein. No. 1,431,467; Oct. 10.
 Valve, Drain. F. Knight. No. 1,420,559; June 20.
 Valve, Drain. S. Pavitchich. No. 1,423,679; July 25.
 Valve-dressing tool. F. Windish. No. 1,430,345; Sept. 26.
 Valve, Drift. B. P. Gilman. No. 1,401,975; Jan. 3.
 Valve, Drifting. J. H. Hanlon. No. 1,423,797; July 25.
 Valve, Drifting. V. P. McVoy. No. 1,403,129; Jan. 10.
 Valve, Dry-pipe. A. J. Loepsinger. No. 1,411,921; Apr. 4.
 Valve, Dry-pipe. H. H. McCarn. No. 1,420,269; June 20.
 Valve, Dry-pipe. J. R. Meadowcroft. No. 1,428,700; Sept. 12.
 Valve, Duplex. J. L. Gish. No. 1,405,578; Feb. 7.
 Valve, Elastic ball. P. Mueller and A. C. Schuermann. No. 1,403,263; Jan. 10.
 Valve, Engine. G. P. Aborn. No. 1,427,767; Sept. 5.
 Valve, Engine. G. P. Aborn. No. 1,435,191; Nov. 14.
 Valve, Engine. L. B. Hubbard. No. 1,440,079; Dec. 26.
 Valve, Engine. C. J. Pilliod. No. 1,414,152; Apr. 25.
 Valve, Engine. J. R. Warren and A. Brechting. No. 1,417,590; May 30.
 Valve, Engineer's brake. T. H. Thomas. No. 1,432,428; Oct. 17.
 Valve faces, Apparatus for cutting. E. B. Sherk. No. 1,437,366; Nov. 28.
 Valve, Faucet. E. L. Cunningham. No. 1,421,765; July 4.
 Valve, Filter. A. C. Evans. No. 1,407,397; Feb. 21.
 Valve, Float. A. A. Earl. No. 1,432,982; Oct. 24.
 Valve, Fluid-pressure-controlling. H. R. Geer. No. 1,425,086; Aug. 8.
 Valve, Fluid-pressure-regulating. C. L. Bastian. Nos. 1,408,923-6; Mar. 7.
 Valve, Flush. R. R. Banta. No. 1,416,317; May 16.
 Valve, Flush. B. F. Gable. No. 1,404,594; Jan. 24.
 Valve, Flush. L. R. Hurst. No. 1,435,067; Nov. 7.
 Valve, Flush. F. L. Schwab. No. 1,426,841; Aug. 22.
 Valve, Flush. F. L. Shoppe. E. G. Hedges, and W. W. Heroy. No. 1,439,268; Dec. 19.
 Valve, Flush. G. B. Stack. No. 1,409,602; Mar. 14.
 Valve, Flush. T. L. Titus. No. 1,412,905; Apr. 18.
 Valve, Flush-tank. C. M. Saylor. No. 1,435,083; Nov. 7.
 Valve, Flush-tank. F. L. Shoppe. E. G. Hedges, and W. W. Heroy. No. 1,420,452; June 20.
 Valve, Flushing. S. O. Johns. No. 1,402,771; Jan. 10.
 Valve for air-brake equipment, Charging. G. E. Maier. No. 1,406,466; Feb. 14.
 Valve for air-brake pipes, Shut-off. A. L. Cole. No. 1,424,083; July 25.
 Valve for air-brake systems, Bleeder. T. J. Steinkeller. No. 1,409,605; Mar. 14.
 Valve for air-brake systems, Release. F. M. Frederick. No. 1,439,361; Dec. 19.
 Valve for air compressors, Discharge. E. L. Hewlett. No. 1,420,429; June 20.
 Valve for air tubes. G. W. Sheeley. No. 1,437,454; Dec. 5.
 Valve for automobile torpedoes, Air-check. W. Dieter. No. 1,436,018; Nov. 21.
 Valve for automobile torpedoes, Pressure-reducing. W. Dieter. No. 1,432,745; Oct. 24.

- Valve for cake-forming presses. R. A. Trace. No. 1,428,998; Sept. 12.
- Valve for chicken fountains, Automatic. J. Imschweiler. No. 1,415,178; May 9.
- Valve for compressors. C. H. Leinert. No. 1,404,130; Jan. 17.
- Valve for compressors, Clearance. W. Prellwitz. No. 1,422,476; July 11.
- Valve for dashpots, Check. M. Haerberlein. No. 1,409,849; Mar. 14.
- Valve for filters, Strainer. H. D. Elfreth. No. 1,409,337; Mar. 14.
- Valve for fire extinguishers, Dry-pipe. L. M. Lewis. No. 1,415,884; May 16.
- Valve for fluid brakes, Pressure-retaining. F. J. Borer. No. 1,440,001; Dec. 26.
- Valve for fluid-operated motors, Automatic regulating. L. C. Bayles and F. M. Slater. No. 1,414,168; Apr. 25.
- Valve for fluid-pressure pipes, Safety. W. B. Royer. No. 1,418,096; May 30.
- Valve for flush tanks, Automatic. R. L. Lash. No. 1,420,713; June 27.
- Valve for fuel tanks, Air. J. A. Baer. No. 1,425,358; Aug. 8.
- Valve for gas burners, Air. E. W. Vest. No. 1,417,120; May 23.
- Valve for gas ranges. E. M. Hawley. No. 1,402,605; Jan. 3.
- Valve for gas stoves. W. J. Kennedy. No. 1,425,975; Aug. 15.
- Valve for gauge cocks. H. W. Ryalls. No. 1,421,572; July 4.
- Valve for heating systems, Thermostatic. J. P. Cousins. No. 1,439,069; Dec. 19.
- Valve for high-pressure gas regulation. C. B. Rogers. No. 1,427,854; Sept. 5.
- Valve for hot-water heaters, Gas. W. E. Stuart. No. 1,430,701; Oct. 3.
- Valve for hydrants, Dual. F. P. Angell. No. 1,411,259; Apr. 4.
- Valve for hydraulic apparatus, Gas-discharging. M. Houdaille. No. 1,402,610; Jan. 3.
- Valve for hydraulic presses. H. A. J. Dineen. No. 1,431,101; Oct. 3.
- Valve for internal-combustion engines. H. Dotzer. No. 1,407,644; Feb. 21.
- Valve for internal-combustion engines, Auxiliary air. W. B. Clifford. No. 1,434,282; Oct. 31.
- Valve for internal-combustion engines, Poppet. B. S. Arnold. No. 1,434,473; Nov. 7.
- Valve for internal-combustion motors, Governing. H. R. Jackson and H. A. May. No. 1,408,887; Mar. 7.
- Valve for internal-combustion motors, Governing. H. R. Jackson. No. 1,437,423; Dec. 5.
- Valve for internal-combustion motors, Rotary. M. B. Jackson, Jr. No. 1,410,315; Mar. 21.
- Valve for irons. H. I. Frankel. No. 1,432,682; Oct. 17.
- Valve for L-head motors, Piston sleeve. E. R. Burnett. No. 1,430,622; Oct. 3.
- Valve for milking machines. J. T. Buckwalter and F. T. Flinchbaugh. No. 1,416,166; May 16.
- Valve for motors, Auxiliary air. J. J. Catron. No. 1,436,943; Nov. 28.
- Valve for motors, Auxiliary air. M. Craig. No. 1,411,957; Apr. 4.
- Valve for oil systems. N. D. Whitney. No. 1,425,429; Aug. 8.
- Valve for oil wells, Working. H. J. Steinberger. No. 1,427,978; Sept. 5.
- Valve for pressure cookers. S. L. Berry. No. 1,432,953; Oct. 24.
- Valve for pressure-gas containers, Stop. A. B. Dräger. No. 1,424,810; Aug. 8.
- Valve for refrigerating apparatus, Automatic expansion. F. J. Heideman and J. N. Hadjisky. No. 1,438,178; Dec. 12.
- Valve for regenerative furnaces, Reversing. C. V. McIntire. No. 1,430,172; Sept. 26.
- Valve for rock drills, Regulating. F. M. Slater. No. 1,414,222; Apr. 25.
- Valve for sand and gravel dumps, Gate. W. M. Williams. No. 1,428,732; Sept. 12.
- Valve for single-chamber compressed-air brakes, Triple. W. Hildebrand. No. 1,425,477; Aug. 8.
- Valve for steam engines. G. Groenewegen. No. 1,422,437; July 11.
- Valve for steam engines, Governor. A. K. Hinchman. No. 1,430,505; Sept. 26.
- Valve for steam traps. W. Wanstall. No. 1,419,784; June 13.
- Valve for well swabs, Check and release. F. W. Leidecker. No. 1,405,048; Jan. 31.
- Valve, Forcer steam. E. O. Corey. No. 1,428,144; Sept. 5.
- Valve, Fuel. P. H. Gundermann. No. 1,418,073; May 30.
- Valve, Fuel. R. H. Irving. No. 1,406,191; Feb. 14.
- Valve, Fuel-tank control. W. C. Replogle. No. 1,426,505; Aug. 22.
- Valve, Furnace. R. D. Nye. No. 1,411,297; Apr. 4.
- Valve, Gas. J. C. Palmer. No. 1,410,218; Mar. 21.
- Valve, Gas and air reversing. W. G. Bergman. No. 1,428,525; Sept. 12.
- Valve, Gas-engine. R. Jardine. No. 1,438,597; Dec. 12.
- Valve, Gas-regulating. L. E. Trosclair. No. 1,407,963; Feb. 28.
- Valve, Gas-reversing. W. H. Lake. No. 1,424,832; Aug. 8.
- Valve gasket. H. J. Zimmerman. No. 1,438,161; Dec. 5.
- Valve, Gate. L. M. Dawson. No. 1,411,608; Apr. 4.
- Valve gear. H. O. Baker. No. 1,424,146; Aug. 1.
- Valve gear. S. K. Brown. No. 1,436,939; Nov. 28.
- Valve gear. C. J. Pilliod. Nos. 1,427,840-1; Sept. 5.
- Valve gear. T. W. Rose. No. 1,418,473; June 6.
- Valve gear, Engine. J. D. Hood. No. 1,414,739; May 2.
- Valve-gear mechanism. H. C. Clay. No. 1,425,631; Aug. 15.
- Valve gear with rotary valves. M. Echard. No. 1,427,726; Aug. 29.
- Valve, Governor. A. K. Hinchman. Nos. 1,406,011-12; Feb. 7.
- Valve, Governor. A. K. Hinchman. No. 1,406,015; Feb. 7.
- Valve, Grain. K. F. Nystrom. No. 1,404,887; Jan. 31.
- Valve grinder. A. and J. Aldi. No. 1,428,871; Sept. 12.
- Valve grinder. J. Blinkide. No. 1,408,254; Feb. 28.
- Valve grinder. O. E. Brown. No. 1,430,285; Sept. 26.
- Valve grinder. R. A. Carson. No. 1,436,150; Nov. 21.
- Valve grinder. H. Denis. No. 1,437,293; Nov. 28.
- Valve grinder. F. J. Derifield. No. 1,431,514; Oct. 10.
- Valve grinder. V. M. Everett. No. 1,432,168; Oct. 17.
- Valve grinder. F. J. Gibbons. No. 1,433,684; Oct. 31.
- Valve grinder. R. B. Goodrich. No. 1,437,936; Dec. 5.
- Valve grinder. W. H. Heath. No. 1,414,358; May 2.
- Valve grinder. E. H. Howard. No. 1,435,847; Nov. 14.
- Valve grinder. R. E. and A. D. Pouley. No. 1,412,964; Apr. 18.
- Valve grinder. H. A. Wright. No. 1,418,419; June 6.
- Valve grinder, Auto. J. R. Miller. No. 1,402,081; Jan. 3.
- Valve grinder, Power-driven. G. F. Vester. No. 1,411,140; Mar. 28.
- Valve grinders, Operating devices for. E. R. Jones. No. 1,421,486; July 4.
- Valve-grinding device. J. M. Hamilton. No. 1,414,983; May 2.
- Valve-grinding device. C. Ruiz. No. 1,427,913; Sept. 5.
- Valve-grinding implement. W. S. Hood. No. 1,413,273; Apr. 18.
- Valve-grinding machine. D. Applegate. No. 1,433,170; Oct. 24.
- Valve-grinding machine. C. Diehl. No. 1,429,494; Sept. 19.
- Valve-grinding machine. H. E. Fletcher. No. 1,431,644; Oct. 10.
- Valve-grinding machine, Multiple. R. M. Roof. No. 1,424,035; July 25.
- Valve-grinding tool. H. Gartelman. No. 1,409,844; Mar. 14.
- Valve-grinding tool. G. W. Helmer. No. 1,419,628; June 13.
- Valve-grinding tool. A. Loveless. No. 1,415,592; May 9.
- Valve-grinding tool. C. R. Otis. No. 1,439,440; Dec. 19.
- Valve-grinding tool and the like. T. A. Parmenter. No. 1,425,684; Aug. 15.
- Valve handles, Guard for. J. Ditson. No. 1,425,949; Aug. 15.
- Valve handwheel. F. R. Banks. No. 1,426,272; Aug. 15.
- Valve, Hydraulic. H. L. Fritts. No. 1,428,688; Sept. 12.
- Valve, Hydraulic. H. R. Geer. No. 1,435,705; Nov. 14.
- Valve-in-head constructions, Attachment for operating on. A. C. Lindholm. No. 1,431,672; Oct. 10.
- Valve, Induction. C. J. Reynolds. No. 1,419,471; June 13.
- Valve, Injector. L. A. Faust. No. 1,420,419; June 20.
- Valve installation for tanks, Plug-. N. A. Lockwood. No. 1,436,349; Nov. 21.
- Valve, Internal-combustion-engine. J. Good. (Reissue.) No. 15,382; June 13.
- Valve, Irrigating. G. C. Martin. No. 1,414,034; Apr. 25.
- Valve-leak indicator. M. J. Clausen. No. 1,420,909; June 27.
- Valve, Leakproof lower or standing. C. H. Benckenstein. No. 1,418,423; June 6.
- Valve lifter. E. E. Faris. No. 1,417,370; May 23.
- Valve lifter. C. F. and F. O. Lengfeld and J. J. McHugh. No. 1,430,822; Oct. 3.
- Valve lifter. R. I. Shibiya. No. 1,424,683; Aug. 1.
- Valve lifter. R. I. Shibiya. No. 1,440,317; Dec. 26.
- Valve-lifter guide. C. L. Mainland. No. 1,409,878; Mar. 14.
- Valve-lifting device. M. A. Dubose and N. M. Harrison. No. 1,438,022; Dec. 5.
- Valve lock. J. Cathrill. No. 1,422,336; July 11.
- Valve, Lock. D. C. Fisher. No. 1,416,807; May 23.
- Valve lock. C. Szafraski. No. 1,412,720; Apr. 11.
- Valve lock, Intake-manifold. W. Wilbur. No. 1,438,802; Dec. 12.
- Valve mechanism. F. E. Acuff. No. 1,421,132; June 27.
- Valve mechanism. C. H. Allen. No. 1,430,427; Sept. 26.
- Valve mechanism. J. Ardo. No. 1,421,119; June 27.
- Valve mechanism. F. G. Clump and E. A. Burrows. No. 1,439,503; Dec. 19.
- Valve mechanism. R. I. Frost. No. 1,411,717; Apr. 4.
- Valve mechanism. F. Gruber. No. 1,432,331; Oct. 17.
- Valve mechanism. F. L. Hutchinson. No. 1,422,980; July 18.
- Valve mechanism. H. L. Knudsen. No. 1,427,111; Aug. 29.
- Valve mechanism. P. W. Murphy. No. 1,402,946; Jan. 10.
- Valve mechanism. H. Y. Norwood. No. 1,425,412; Aug. 8.
- Valve mechanism. M. W. Thomas. No. 1,402,189; Jan. 3.

Alphabetical list of inventions—Continued.

- Valve mechanism, Combustion-engine. W. Harper, jr. No. 1,429,943; Sept. 26.
- Valve mechanism, Compressor-. L. J. Clapp. No. 1,435,105; Nov. 7.
- Valve mechanism, Engine. P. Lassen. No. 1,426,486; Aug. 22.
- Valve mechanism for internal-combustion engines. E. Fuchs. No. 1,415,167; May 9.
- Valve mechanism for internal-combustion engines. H. J. Howard. No. 1,439,894; Dec. 26.
- Valve mechanism for internal-combustion engines. J. M. Williams, jr. No. 1,435,777; Nov. 14.
- Valve mechanism, Pop-up waste-. J. Allingham. No. 1,408,239; Feb. 28.
- Valve mechanism, Steam-engine-. E. T. Cunliffe. No. 1,419,362; June 13.
- Valve mechanisms, Lubricator for. W. M. Copeland. No. 1,414,934; May 2.
- Valve, Meter alarm. J. H. Brumbaugh. No. 1,414,723; May 2.
- Valve, Mixing. J. J. Grebe. No. 1,419,254; June 13.
- Valve, Mixing. P. T. Leahy. No. 1,427,606; Aug. 29.
- Valve mounting. E. H. Sherbondy. No. 1,436,976; Nov. 28.
- Valve, Muffler toilet. J. C. Owens. No. 1,426,093; Aug. 15.
- Valve, Nonreturn. J. D. Maxwell. No. 1,420,664; June 27.
- Valve, Nonreturn. C. Rosling. No. 1,404,408; Jan. 24.
- Valve of a gas burner or gas supply. Electrically-operated. J. Wolfson. No. 1,421,648; July 4.
- Valve, Oil-gauge. J. E. Evans. No. 1,427,681; Aug. 29.
- Valve-operating device. A. F. Erickson. No. 1,439,231; Dec. 19.
- Valve-operating mechanism. W. E. and G. W. Anderson. No. 1,435,951; Nov. 21.
- Valve-operating mechanism. E. H. Belden. No. 1,434,188; Oct. 31.
- Valve-operating mechanism. W. C. Chambers. No. 1,413,097; Apr. 18.
- Valve-operating mechanism. R. F. Halliwell. No. 1,410,294; Mar. 21.
- Valve-operating mechanism. H. W. Herman. No. 1,427,385; Aug. 29.
- Valve-operating mechanism. C. F. Webber. No. 1,437,576; Dec. 5.
- Valve-operating mechanism. F. H. Wells. No. 1,410,787; Mar. 28.
- Valve-operating mechanism, Float-controlled. I. C. Jennings. No. 1,409,550; Mar. 14.
- Valve-operating mechanism for flush tanks. W. W. Temple. No. 1,429,798; Sept. 19.
- Valve operation, Throttle-. C. F. Prescott. No. 1,404,646; Jan. 24.
- Valve or blow-off, Safety. R. V. Bingay. No. 1,415,216; May 9.
- Valve or plug for oil containers. B. H. Carlile. No. 1,429,566; Sept. 19.
- Valve, Permutation. P. Probstel. No. 1,412,134; Apr. 11.
- Valve, Piston globe. E. C. Davies. No. 1,422,343; July 11.
- Valve, Plate. T. J. Hart. No. 1,416,637; May 16.
- Valve, Plate. F. W. Parsons. No. 1,433,094; Oct. 24.
- Valve, Pneumatic. Z. Littman. No. 1,419,679; June 13.
- Valve, Poppet. C. T. Bangs. No. 1,414,495; May 2.
- Valve, Poppet. C. T. Bangs. (Reissue.) No. 15,438; Aug. 29.
- Valve, Poppet. C. Pfantstiel. No. 1,423,876; July 25.
- Valve, Pressure. J. W. Barton. No. 1,414,323; Apr. 25.
- Valve, Pressure. C. J. Olson. No. 1,406,216; Feb. 14.
- Valve, Pressure-control. W. E. Dobson. No. 1,409,933; Mar. 21.
- Valve, Priming. R. W. and P. B. Linley. No. 1,421,793; July 4.
- Valve, Pump. R. L. Hay. No. 1,426,073; Aug. 15.
- Valve, Pump. R. W. Murray. No. 1,427,837; Sept. 5.
- Valve pump or motor, Compound. W. F. Mayer. No. 1,414,965; May 2.
- Valve, Radiator. W. C. Boyd. No. 1,425,940; Aug. 15.
- Valve, Radiator. G. H. Bugenhagen. No. 1,417,592; May 30.
- Valve, Radiator. J. Carmel. No. 1,426,150; Aug. 15.
- Valve, Radiator vent. A. Heldrich. No. 1,403,162; Jan. 10.
- Valve, Reducing. L. Mombaruzzo. No. 1,437,437; Dec. 5.
- Valve refacing and grinding tool. J. A. Fushs. No. 1,430,976; Oct. 3.
- Valve-refacing apparatus. F. O. Albertson. No. 1,421,133; June 27.
- Valve-regulating device. C. Leffler. No. 1,430,570; Oct. 3.
- Valve, Relief. G. S. Lane. No. 1,412,473; Apr. 11.
- Valve, Relief. A. R. Miller. No. 1,423,135; July 18.
- Valve remover. E. L. Weil. No. 1,426,799; Aug. 22.
- Valve-removing tool. C. E. Giddings, jr. No. 1,433,131; Oct. 24.
- Valve-repair tool. H. F. Kraft. No. 1,414,819; May 2.
- Valve-repair tool. H. F. Kraft. No. 1,435,904; Nov. 14.
- Valve, Replacement. C. J. Müller. No. 1,426,401; Aug. 22.
- Valve-reseating tool. M. B. Skinner. No. 1,425,611; Aug. 15.
- Valve, Reversible. R. F. Maxwell. No. 1,405,310; Jan. 31.
- Valve-reversing gear, Steam-engine. F. R. Stevens. No. 1,431,992; Oct. 17.
- Valve reversing gear, Steam-engine. F. R. Stevens. No. 1,436,547; Nov. 21.
- Valve, Rotary. A. Dickerson. No. 1,414,692; May 2.
- Valve, Rotary. J. Good. (Reissue.) No. 15,430; Aug. 8.
- Valve, Rotary. J. Gordon. No. 1,434,695; Nov. 7.
- Valve, Rotary. C. W. and M. M. Jackman. No. 1,402,616; Jan. 3.
- Valve, Rotary. J. R. Warren. No. 1,410,232; Mar. 21.
- Valve-rotating device. W. G. Buck. No. 1,414,499; May 2.
- Valve, Safety. W. E. Floyd. No. 1,411,483; Apr. 4.
- Valve, Safety. W. Hargreaves. No. 1,404,390; Jan. 24.
- Valve, Safety. K. Stahl. No. 1,419,177; June 13.
- Valve, Safety gas. E. H. Neviczky. No. 1,423,010; July 18.
- Valve, Safety gas. W. T. Smith. No. 1,403,351; Jan. 10.
- Valve seal. W. G. Sanderson. No. 1,426,412; Aug. 22.
- Valve-sealing device. N. H. Fitz Gerald and O. J. Marvin. No. 1,435,832; Nov. 14.
- Valve seat. R. W. Gunn and W. A. S. Thompson. No. 1,424,094; July 25.
- Valve-seat cutter. O. Willson and E. F. Piwczynski. No. 1,414,060; Apr. 25.
- Valve-seat retainer. C. W. Metzgar. No. 1,411,795; Apr. 4.
- Valve-seat retainer. F. W. Parsons. No. 1,414,665; May 2.
- Valve-seat-surfacing device. A. C. Payson. No. 1,409,765; Mar. 14.
- Valve seats, Tool for facing. E. O. Myers. No. 1,430,673; Oct. 3.
- Valve seats, Tool for refacing. J. J. Allen. No. 1,406,139; Feb. 7.
- Valve, Self-cleaning drain. F. H. Etzenhouser. No. 1,406,830; Feb. 14.
- Valve, Self-closing and shock-preventing. E. K. H. Lundberg. No. 1,431,406; Oct. 10.
- Valve-setting device. P. C. Baldus. No. 1,402,391; Jan. 3.
- Valve, Shut-off and safety. A. L. Eustis. No. 1,405,192; Jan. 31.
- Valve, Signal. F. N. Kelsey. No. 1,434,708; Nov. 7.
- Valve silencer. J. P. McCallus. No. 1,424,205; Aug. 1.
- Valve silencer, Tappet-. C. H. Strohl. No. 1,410,771; Mar. 28.
- Valve-silencing mechanism. G. A. Suffa. No. 1,411,387; Apr. 4.
- Valve, Slide. C. Bienz. No. 1,411,153; Mar. 28.
- Valve, Slide cup. W. G. Wilson. No. 1,413,210; Apr. 18.
- Valve-spindle-retaining device. L. C. Bayles. No. 1,428,745; Sept. 12.
- Valve-spring compressor. R. S. Bainbridge. No. 1,405,253; Jan. 31.
- Valve-spring compressor. M. Musgrave. No. 1,424,512; Aug. 1.
- Valve-spring compressor. G. F. Paterson. No. 1,438,782; Dec. 12.
- Valve-spring compressor. A. B. Seppmann. No. 1,438,791; Dec. 12.
- Valve-spring compressor. P. L. Varble. No. 1,429,000; Sept. 12.
- Valve-spring compressor and holder. C. M. Salsgiver. No. 1,425,796; Aug. 15.
- Valve-spring compressor, Internal-combustion-engine. W. W. Wright. No. 1,435,779; Nov. 14.
- Valve-spring compressor, Universal. J. P. Harper. No. 1,437,242; Nov. 28.
- Valve-spring lifter. F. M. Butler. No. 1,428,471; Sept. 5.
- Valve-spring lifter. J. A. Fink. No. 1,433,502; Oct. 24.
- Valve-spring lifter. L. J. Genett. No. 1,431,731; Oct. 10.
- Valve-spring-lifting device. A. Loveless. No. 1,436,663; Nov. 28.
- Valve-spring support for valve grinding. G. W. Fleming. (Reissue.) No. 15,388; June 20.
- Valve-spring tool. J. Luft. No. 1,411,113; Mar. 28.
- Valve springs, Tool for removing. E. W. Schermerhorn and R. Woodruff. No. 1,439,530; Dec. 19.
- Valve, Sprinkler-system alarm. E. G. Harris. No. 1,425,254; Aug. 8.
- Valve-stem attachment. M. T. Willey. No. 1,420,898; June 27.
- Valve-stem cap. E. D. Rockwell. No. 1,423,541; July 25.
- Valve-stem-fitting device. C. D. Stromgren. No. 1,435,428; Nov. 14.
- Valve-stem lubricator. E. E. Parslow. No. 1,421,826; July 4.
- Valve stems, Locking device for. W. R. Royer. No. 1,425,545; Aug. 15.
- Valve stems, Packing box for throttle-. R. A. Sjoquist. No. 1,407,354; Feb. 21.
- Valve stems, Punch and die for straightening. H. F. Wolnick. No. 1,405,473; Feb. 7.
- Valve, Stop. L. B. Harris. No. 1,414,357; May 2.
- Valve structure, Relief-. J. W. Lewis. No. 1,432,111; Oct. 17.
- Valve, Suction-operated gas-saving. V. R. Will. No. 1,413,089; Apr. 18.
- Valve-surfacing device. A. C. Payson. No. 1,409,764; Mar. 14.
- Valve, Syringe. H. H. McGee. No. 1,418,592; June 6.

Alphabetical list of inventions—Continued.

- Valve, Tank-car outlet. C. H. Haupt. No. 1,439,415; Dec. 19.
- Valve tappet. J. A. Germonprez. No. 1,402,226; Jan. 3.
- Valve-tappet-silencing mechanism. V. J. Harris. No. 1,425,766; Aug. 15.
- Valve tappets, Making. R. Jardine. No. 1,435,925; Nov. 21.
- Valve, Temperature. G. R. Dean. No. 1,412,845; Apr. 18.
- Valve, Temperature-regulating. A. E. Bossé and C. W. Ford. No. 1,429,923; Sept. 26.
- Valve tester. A. L. Bradley. No. 1,402,139; Jan. 3.
- Valve, Thermostatic air. P. Mirk. No. 1,408,121; Feb. 28.
- Valve, Thermostatic-controlled. J. L. Fitts. No. 1,425,189; Aug. 8.
- Valve, thermostatically controlled, Fluid. R. M. Anderson. No. 1,413,212; Apr. 18.
- Valve, Thermostatically-operated ammonia expansion. H. P. Keen and D. D. Huyett. No. 1,408,744; Mar. 7.
- Valve, Throttle. P. H. Gentzel. No. 1,405,833; Feb. 7.
- Valve, Throttle. W. F. Kasper. No. 1,423,858; July 25.
- Valve, Throttle. G. M. Nell. No. 1,413,288; Apr. 18.
- Valve, Throttle. H. C. Roney. No. 1,409,783; Mar. 14.
- Valve tool. W. J. Cattin. No. 1,430,940; Oct. 3.
- Valve tool. C. D. Sevier and F. P. Eckroat. No. 1,422,890; July 18.
- Valve, Triple. W. G. Canon. No. 1,406,609; Feb. 14.
- Valve tubes, Cap for. D. H. Cox. (Reissue.) No. 15,359; May 23.
- Valve turning and grinding machine. F. C. Williams. No. 1,416,920; May 23.
- Valve, Warning. H. T. Battin. No. 1,403,066; Jan. 10.
- Valve, Whistle. W. L. Crafton. No. 1,412,777; Apr. 11.
- Valves, Attachment for straight-air brake. J. W. Finch and W. A. Talley. No. 1,418,434; June 6.
- Valves, Electrically-actuated means for operating vacuum-breaker. W. A. Howland. No. 1,435,396; Nov. 14.
- Valves, Electrically-operated control mechanism for retainer. G. B. Edinger and J. S. McCoy. No. 1,436,868; Nov. 28.
- Valves in pasteurizing apparatus, Operating mechanism for distributing. P. Engholm. No. 1,431,384; Oct. 10.
- Valves, Lubrication for engine. M. A. Yeakley. No. 1,414,244; Apr. 25.
- Valves, Machine for facing or dressing gate. F. A. B. P. Dexter and J. A. Stuard. No. 1,420,915; June 27.
- Valves, Machine for refacing. C. H. Beasecker. No. 1,437,831; Dec. 5.
- Valves, Making tire. E. V. Myers. No. 1,402,247; Jan. 3.
- Valves, Manufacturing laminated. W. H. Washburne. No. 1,415,745; May 9.
- Valves, Means for locking. S. F. Bashara. No. 1,421,059; June 27.
- Valves, Recording attachment for. B. Richards. No. 1,407,806; Feb. 28.
- Valves, Support for pressure-retaining. F. L. Horning. No. 1,431,662; Oct. 10.
- Valves, Timer for. C. G. Kronmiller. No. 1,434,827; Nov. 7.
- Valves, Timing and recording device for discharge. J. Huebsch and R. Roost. No. 1,408,884; Mar. 7.
- Vamp-forming machine. G. E. Musebeck. No. 1,440,166; Dec. 26.
- Vamp-locating device. H. H. Whitcomb. No. 1,430,710; Oct. 3.
- Vanadium, Recovering. W. E. Stokes. No. 1,428,616; Sept. 12.
- Vanadium, Recovering. K. B. Thews. No. 1,430,864; Oct. 3.
- Vanadium, uranium, and radium from certain ores, Extraction of. W. R. Blecker. No. 1,438,357; Dec. 12.
- Vane, Wind. L. E. Cook. No. 1,431,441; Oct. 10.
- Vanity and manicure set, Combined. W. L. Kohn and L. L. Kole. No. 1,434,442; Nov. 7.
- Vanity box. F. S. Hyatt. No. 1,422,981; July 18.
- Vanity box. M. M. Sabatelli. No. 1,414,899; May 2.
- Vanity box, Illuminated. E. Langerman. No. 1,433,015; Oct. 24.
- Vanity case. O. J. Cathcart. No. 1,423,079; July 18.
- Vanity case. E. H. Hoegemann. No. 1,435,160; Nov. 14.
- Vanity case. W. G. Kendall. No. 1,409,867; Mar. 14.
- Vanity case. W. G. Kendall. No. 1,417,333; May 23.
- Vanity case. W. G. Kendall. No. 1,436,504; Nov. 21.
- Vanity case. W. G. Kendall. No. 1,438,835; Dec. 12.
- Vanity case. T. W. Smith. No. 1,431,336; Oct. 10.
- Vanity case and bouquet holder. S. B. Werthelmer. No. 1,418,760; June 6.
- Vanity-case assemblage. A. Lenneberg. No. 1,416,654; May 16.
- Vanity case, Combination. A. E. Rope. No. 1,421,311; June 27.
- Vanity case or powder box. A. M. Peacock. No. 1,416,503; May 16.
- Vanity-case partition. W. G. Kendall. No. 1,425,490; Aug. 8.
- Vanity cases, Illuminating means for. A. M. Metternich. No. 1,432,297; Oct. 17.
- Vanity cases, Partition for. W. G. Kendall. No. 1,428,890; Sept. 12.
- Vapor bath. J. Thomas. No. 1,425,423; Aug. 8.
- Vapor burner. A. D. Antoine and A. E. Gebert. No. 1,415,215; May 9.
- Vapor burner. F. L. Kohlbase. No. 1,415,180; May 9.
- Vapor burner. W. F. La Rose. No. 1,434,127; Oct. 31.
- Vapor burner. R. D. Leslie and F. E. H. Snowden. No. 1,406,396; Feb. 14.
- Vapor burner. W. T. Wood. No. 1,434,241; Oct. 31.
- Vapor-condensing apparatus. W. P. Barclay. No. 1,403,282; Jan. 10.
- Vapor generating and burning apparatus. J. H. Mershon and W. T. Jeffries. No. 1,438,846; Dec. 12.
- Vapor heating system. T. G. Mouat. No. 1,404,995; Jan. 31.
- Vapor medicating apparatus. H. B. Thompson. No. 1,416,244; May 16.
- Vapor, Producing combustible. A. T. Porter. No. 1,411,182; Mar. 28.
- Vapor-regulator gauge. H. R. E. Kummer. No. 1,412,787; Apr. 11.
- Vapor warmer. C. K. Teter. No. 1,436,064; Nov. 21.
- Vaporizer. H. L. Bumbaugh. No. 1,402,715; Jan. 3.
- Vaporizer. H. Epstein, J. J. Mitnick, and J. M. Bernstein. No. 1,402,585; Jan. 3.
- Vaporizer. J. R. Schmidt. No. 1,430,926; Oct. 3.
- Vaporizer. M. J. Trumble. No. 1,439,206; Dec. 19.
- Vaporizer. C. Wittenmyer. No. 1,416,151; May 16.
- Vaporizer, Fuel. W. Martin. No. 1,411,575; Apr. 4.
- Vaporizer, Kerosene. W. H. Hill. No. 1,424,142; July 25.
- Vaporizer, Liquid. E. Cleary. No. 1,418,234; May 30.
- Vapors and means for utilizing the same, Recovering solids from. J. P. Kirkup. No. 1,416,215; May 16.
- Vapors, Filtering. W. C. and F. E. Wells. No. 1,433,050; Oct. 24.
- Vapors from gases containing them, Separating hydrocarbon. A. J. Paris, Jr. No. 1,405,154; Jan. 31.
- Vapors, Volatilizing, distilling, or separating absorbed. C. L. Voress and V. C. Canter. No. 1,420,613; June 20.
- Variable-pitch propeller. O. F. Persson. No. 1,406,277; Feb. 14.
- Variable-resistance unit. S. W. Law. No. 1,408,953; Mar. 7.
- Variometer. J. W. Doron. No. 1,408,992; Mar. 7.
- Variometer. J. S. E. Townsend. No. 1,421,041; June 27.
- Varnish. G. Tüschel. No. 1,435,350; Nov. 14.
- Varnish, Acid-proof. L. M. McCulloch. No. 1,411,050; Mar. 28.
- Varnish and making same. S. Cabot. No. 1,413,964; Apr. 25.
- Varnish and making same. I. F. Laucks. No. 1,413,666; Apr. 25.
- Varnish composition. H. W. and R. W. Summers. No. 1,413,628; Apr. 25.
- Varnish making. J. H. Young. No. 1,432,511; Oct. 17.
- Varnish, paint, or cement and making same. H. F. Willkie. No. 1,408,325; Feb. 28.
- Varnishes, Preparing. G. W. Acheson. No. 1,431,080; Oct. 3.
- Vat preparations and making same, Stable, dry, and readily-soluble. K. Thies, F. Maenchen, A. Steindorff, and F. Giloy. No. 1,426,522; Aug. 22.
- Vault and safe doors, Bolt lock for. F. L. Horspool. No. 1,402,499; Jan. 3.
- Vault and safe protector, Bank. W. C. Beckwith. No. 1,408,494; Mar. 7.
- Vault, Burial. J. T. Elmore. No. 1,411,331; Apr. 4.
- Vault, Burial. C. B. Franklin. No. 1,415,435; May 9.
- Vault, Burial. C. Howard. No. 1,428,373; Sept. 5.
- Vault, Burial. G. W. Killinger. No. 1,420,709; June 27.
- Vault, Burial. C. W. Thompson and W. J. Quigley. No. 1,427,243; Aug. 29.
- Vault closures, Fastener for. S. Taylor. No. 1,429,116; Sept. 12.
- Vault closures, Lock for grave. S. Taylor. No. 1,433,430; Oct. 24.
- Vault, Concrete burial. W. D. Van Tassell. No. 1,403,579; Jan. 17.
- Vault construction, Concrete burial. F. X. Enderle. No. 1,404,944; Jan. 31.
- Vault doors, Auxiliary locking device for. M. J. Isebrands. No. 1,430,810; Oct. 3.
- Vault front and door construction. J. Freyberg and L. F. Wubbolding. No. 1,421,771; July 4.
- Vault, Grave. J. R. Burkhardt. No. 1,417,137; May 23.
- Vault light. W. L. Walker. No. 1,418,341; June 6.
- Vault-lock mechanism, Auxiliary lock for. W. C. Dillon. No. 1,404,937; Jan. 31.
- Vault or mausoleum or the like, Burial. J. Cahill. No. 1,432,836; Oct. 24.
- Vaults and similar purposes, Plate for use in lining burglar-proof. F. J. Napolitan. No. 1,422,295; July 11.
- Vaults and the like, Lock for safety-deposit. P. M. Wege and E. Anderson. No. 1,436,925; Nov. 28.
- Vaults, Auxiliary locking means for. C. W. Babcock. No. 1,426,946; Aug. 22.
- Vaults, Form for plastic burial. H. H. Doswell and A. E. Kover. No. 1,409,686; Mar. 14.
- Vegetable albuminoid and producing it. A. Moffatt. No. 1,425,033; Aug. 8.
- Vegetable and fruit counter. E. E. Boone. No. 1,419,209; June 18.
- Vegetable bin, Sanitary. L. P. Wernz. No. 1,402,462; Jan. 3.
- Vegetable-cubing machine. L. R. Applegate. No. 1,430,049; Sept. 26.
- Vegetable cutter. E. Human. No. 1,429,348; Sept. 19.
- Vegetable cutter. A. I. Mohnacs. No. 1,423,960; July 25.

Alphabetical list of inventions—Continued.

- Vegetable cutter. C. I. J. Nielsen. No. 1,432,892; Oct. 24.
- Vegetable cutter and crusher. C. R. Hartman. No. 1,419,499; June 13.
- Vegetable materials, Conservation of. T. Schweizer. No. 1,404,549; Jan. 24.
- Vegetable peeler. T. H. Pickering. No. 1,424,032; July 25.
- Vegetable slicer. J. W. Dahmer. No. 1,430,289; Sept. 26.
- Vegetable-stem remover and crusher. A. Flis. No. 1,423,790; July 25.
- Vegetable-washing machine. W. L. Street. No. 1,428,125; Sept. 5.
- Vegetables and fruits, Separating skins from. C. J. Walden. No. 1,438,467; Dec. 12.
- Vegetation from frost, Protecting. A. P. Minetti. No. 1,437,149; Nov. 28.
- Vegetation-protecting structure. F. H. Carroll. No. 1,407,125; Feb. 21.
- Vehicle. J. W. Collier. No. 1,422,034; July 4.
- Vehicle. W. E. Doyal and R. Hagopian. No. 1,426,719; Aug. 22.
- Vehicle. J. M. C. Falke and T. H. M. Salce. No. 1,407,648; Feb. 21.
- Vehicle. M. J. Furlong. No. 1,436,031; Nov. 21.
- Vehicle. J. E. Hixson. No. 1,427,387; Aug. 29.
- Vehicle. S. Jacobs. No. 1,411,277; Apr. 4.
- Vehicle. J. J. James. No. 1,440,012; Dec. 26.
- Vehicle. E. R. Klemm. No. 1,410,193; Mar. 21.
- Vehicle. R. G. Ledig. No. 1,411,852; Apr. 4.
- Vehicle. F. A. Smith. No. 1,419,475; June 13.
- Vehicle accessory. R. T. Newton. No. 1,427,624; Aug. 29.
- Vehicle air spring. B. B. Holmes. No. 1,438,527; Dec. 12.
- Vehicle, Amusement. C. L. Johnson. No. 1,409,381; Mar. 14.
- Vehicle attachment. S. A. Dezall. No. 1,436,017; Nov. 21.
- Vehicle attachment, Motor-. C. A. Grasswick. No. 1,433,202; Oct. 24.
- Vehicle, Automotive. A. M. Wolf. No. 1,424,867; Aug. 8.
- Vehicle axle. A. W. Russel. No. 1,421,836; July 4.
- Vehicle bodies, Body bracket for. A. T. Sturt. No. 1,406,241; Feb. 14.
- Vehicle bodies, Door and wall panel for. C. A. Miner. No. 1,420,051; June 20.
- Vehicle bodies, Mechanism for hoisting. B. F. Fitch. No. 1,433,993; Oct. 31.
- Vehicle bodies, Resilient support for. C. Forth. No. 1,428,770; Sept. 12.
- Vehicle bodies, Supporting device for. H. E. Fife. No. 1,418,634; June 6.
- Vehicle body. J. T. Cantrell. No. 1,417,140; May 23.
- Vehicle body. M. Diefenderfer. No. 1,431,783; Oct. 10.
- Vehicle body. J. J. Kelly. No. 1,428,239; Sept. 5.
- Vehicle body. J. H. Press and I. F. Avery. No. 1,425,541; Aug. 15.
- Vehicle body. E. M. T. Ryder. No. 1,413,192; Apr. 18.
- Vehicle body and roof. C. E. Peczenik. No. 1,413,424; Apr. 18.
- Vehicle body and seat. V. W. Pagé. No. 1,411,978; Apr. 4.
- Vehicle body, Convertible. B. E. Carrm. No. 1,413,965; Apr. 25.
- Vehicle body, Convertible. B. E. Carrm. No. 1,426,153; Aug. 15.
- Vehicle body, Convertible. H. C. Haskins. No. 1,432,244; Oct. 17.
- Vehicle body, Convertible. A. A. Kramer. No. 1,425,596; Aug. 15.
- Vehicle body, Convertible. W. Reinhardt. No. 1,427,634; Aug. 29.
- Vehicle body, Convertible. T. P. Troke. No. 1,415,209; May 9.
- Vehicle body, Demountable. L. Lazareth. No. 1,410,935; Mar. 28.
- Vehicle body, Dumping. C. J. Thornton. No. 1,434,168; Oct. 31.
- Vehicle body hoist. E. J. Dondlinger. No. 1,432,389; Oct. 17.
- Vehicle body inclosure. J. B. Fisher. No. 1,415,928; May 16.
- Vehicle body support and air control, Pneumatic. W. G. Fritz. No. 1,426,057; Aug. 15.
- Vehicle body suspension. W. D. Harper. (Reissue.) No. 15,336; Apr. 18.
- Vehicle bow-top holder. C. L. Bair. No. 1,408,161; Feb. 28.
- Vehicle brake. C. A. Baylor. No. 1,436,563; Nov. 21.
- Vehicle brake. J. M. Eadie. No. 1,432,981; Oct. 24.
- Vehicle brake. B. O. Frederick. No. 1,423,846; July 25.
- Vehicle brake. H. Kimmert and G. H. Blaue. No. 1,411,664; Apr. 4.
- Vehicle brake. C. Kokesh. No. 1,414,882; May 2.
- Vehicle brake. W. M. Raymond. No. 1,429,771; Sept. 19.
- Vehicle brake, Automatic. B. Meltzer. No. 1,410,947; Mar. 28.
- Vehicle brakes, Slack adjuster for. A. B. Broluska. No. 1,409,996; Mar. 21.
- Vehicle, Brick-carrying. D. F. Snope. No. 1,424,741; Aug. 1.
- Vehicle buffer device. G. A. Lyon. No. 1,420,855; June 27.
- Vehicle bumper. C. Andreason. No. 1,412,820; Apr. 18.
- Vehicle bumper. F. J. Laher. No. 1,432,602; Oct. 17.
- Vehicle bumper. H. D. Naterman. No. 1,409,462; Mar. 14.
- Vehicle bumper. J. J. O'Brien. No. 1,418,453; June 6.
- Vehicle bumper. L. M. Singer. No. 1,419,417; June 13.
- Vehicle bumper and fender, Motor-. M. H. Moses. No. 1,425,127; Aug. 8.
- Vehicle bumper construction. A. M. Burton. No. 1,438,358; Dec. 12.
- Vehicle bumpers, Buffer for. H. Van Gelder. No. 1,402,324; Jan. 3.
- Vehicle, Camping. G. Urban, Jr. No. 1,412,379; Apr. 11.
- Vehicle chassis. F. De Borggrave. No. 1,439,614; Dec. 19.
- Vehicle chassis. C. F. Penn. No. 1,414,749; May 2.
- Vehicle chassis. P. N. Rawson. No. 1,437,911; Dec. 5.
- Vehicle chassis and spring. L. Kokoval. No. 1,417,256; May 23.
- Vehicle, Child's. J. F. Bobbitt. No. 1,410,547; Mar. 28.
- Vehicle, Child's. R. H. Brown. No. 1,409,280; Mar. 14.
- Vehicle, Child's. N. Chapdelaine. (Reissue.) No. 15,404; July 11.
- Vehicle, Child's. E. J. Douthitt. No. 1,434,105; Oct. 31.
- Vehicle, Child's. W. H. Herrick. No. 1,418,569; June 6.
- Vehicle, Child's. J. F. Johnstone and D. A. Johnstone. No. 1,414,515; May 2.
- Vehicle, Child's. J. Kunst. No. 1,403,607; Jan. 17.
- Vehicle, Child's. J. Lo Verde and A. Tubiolo. No. 1,424,497; Aug. 1.
- Vehicle, Child's. W. G. Punnell. No. 1,438,662; Dec. 12.
- Vehicle, Child's. F. P. Schultze. No. 1,438,267; Dec. 12.
- Vehicle, Child's. H. Smith, Jr. No. 1,430,857; Oct. 3.
- Vehicle, Child's. J. M. and W. C. Thorpe. No. 1,418,266; May 30.
- Vehicle, Child's. J. A. Walsburger. No. 1,421,046; June 27.
- Vehicle, Child's occupant-propelled. R. A. Mack. No. 1,418,817; June 6.
- Vehicle, Coaster. T. Woehr. No. 1,428,735; Sept. 12.
- Vehicle, Combined land and water. A. Swencki. No. 1,420,783; June 27.
- Vehicle construction, Cushion connection for. A. F. Masury and A. H. Leipert. No. 1,404,876; Jan. 31.
- Vehicle control apparatus. F. S. Perkins. No. 1,413,871; Apr. 25.
- Vehicle control mechanism, Bumper-actuated. K. O. Schauman. (Reissue.) No. 15,467; Oct. 10.
- Vehicle, Convertible. A. J. Kelly. No. 1,435,609; Nov. 14.
- Vehicle coupling. E. Larsson. No. 1,430,659; Oct. 3.
- Vehicle coupling. P. L. Stolz. No. 1,435,753; Nov. 14.
- Vehicle curtain. M. Rahr, Jr. No. 1,428,709; Sept. 12.
- Vehicle curtain construction and mounting. A. W. Widenham. No. 1,414,681; May 2.
- Vehicle curtain fastener. C. S. Applas. No. 1,422,513; July 11.
- Vehicle cushioning. J. N. Kelman. No. 1,404,031; Jan. 17.
- Vehicle cushioning and shock-absorbing device. L. D. Reed. No. 1,402,890; Jan. 10.
- Vehicle cushioning device. H. E. Biedinger. No. 1,410,645; Mar. 28.
- Vehicle direction indicator. B. Weinstein. No. 1,428,729; Sept. 12.
- Vehicle direction signal. H. S. Brettell. No. 1,403,381; Jan. 10.
- Vehicle, Direction signal for motor. J. G. Hieb. No. 1,416,027; May 16.
- Vehicle discharging from the bottom. F. Finckh. No. 1,410,094; Mar. 21.
- Vehicle discharging from the bottom. F. Finckh. No. 1,427,452; Aug. 29.
- Vehicle disk wheel. W. E. Williams. No. 1,416,149; May 16.
- Vehicle door curtain. T. L. Cowles. No. 1,418,627; June 6.
- Vehicle door lock. L. W. Gates. No. 1,418,786; June 6.
- Vehicle door pocket. C. G. Moon, Jr. No. 1,412,700; Apr. 11.
- Vehicle, Double hand and foot propelled. A. Berglund. No. 1,405,660; Feb. 7.
- Vehicle drive transmission system. D. G. Tiffany. No. 1,424,951; Aug. 8.
- Vehicle driving means, Motor-. C. J. Noel and K. K. Hicks. No. 1,426,902; Aug. 22.
- Vehicle driving mechanism. R. T. and M. H. Jones. No. 1,434,706; Nov. 7.
- Vehicle driving mechanism. W. B. Lefler. No. 1,418,310; June 6.
- Vehicle driving wheels, Driving cleat mechanism for motor-. A. T. Sturt. No. 1,422,009; July 4.
- Vehicle drop fender. F. A. Pierce and B. W. Davidson. No. 1,434,840; Nov. 7.
- Vehicle dump. E. R. Benson and M. S. Crandall. No. 1,435,690; Nov. 14.
- Vehicle, Dumping. A. P. Lee. No. 1,412,121; Apr. 11.
- Vehicle dumping and jacking means. G. J. Spohrer. No. 1,414,835; May 2.
- Vehicle dumping apparatus. R. C. Stone. No. 1,434,030; Oct. 31.
- Vehicle, Electric motor. J. K. Delano. No. 1,423,090; July 18.
- Vehicle elevating mechanism. J. C. Lewis. No. 1,434,390; Nov. 7.
- Vehicle, Endless-track. C. W. Clark. No. 1,437,092; Nov. 28.

Alphabetical list of inventions—Continued.

- Vehicle, Endless-track. P. W. Dalrymple. No. 1,431,375; Oct. 10.
- Vehicle fender. H. Caplan. No. 1,423,186; July 18.
- Vehicle fender. E. S. Czarczynski. No. 1,419,959; June 20.
- Vehicle fender. W. H. Hink. No. 1,417,321; May 23.
- Vehicle fender. O. G. Jones. No. 1,421,693; July 4.
- Vehicle fender. O. G. Jones. No. 1,425,659; Aug. 15.
- Vehicle fender, Motor-. A. A. Roth. No. 1,435,944; Nov. 21.
- Vehicle, Foot-power-operated. R. T. Babbitt. No. 1,412,331; Apr. 11.
- Vehicle for transporting heavy gun barrels and in the adaptation of guns for the use of such vehicles, Two-axled. E. Schneider. No. 1,429,540; Sept. 19.
- Vehicle frame construction. A. M. Leoni. No. 1,415,372; May 9.
- Vehicle frame parts, Method of and blank for producing. R. S. Smith and T. Hausen. No. 1,433,161; Oct. 24.
- Vehicle frames, Pulp-wood filler for. E. M. Sternberg. No. 1,405,637; Feb. 7.
- Vehicle fuel tanks, Number plate for motor-. N. W. Jacobs. No. 1,423,938; July 25.
- Vehicle gear-shift lever and lock, Motor-. R. J. Davis and C. A. Beckman. No. 1,402,841; Jan. 10.
- Vehicle, Hand-propelled. S. Brown. No. 1,410,449; Mar. 21.
- Vehicle, Hand-propelled. W. E. Callaghan. No. 1,439,465; Dec. 19.
- Vehicle, Hand-propelled. J. A. Hawthorne, Sr. No. 1,409,103; Mar. 7.
- Vehicle, Hand-propelled. W. L. Nicols. No. 1,415,259; May 9.
- Vehicle handling apparatus. J. D. Owen. No. 1,425,045; Aug. 8.
- Vehicle hoist device, Motor-. F. H. Dewey. No. 1,422,344; July 11.
- Vehicle hood. G. Voisin. No. 1,419,704; June 13.
- Vehicle jack. J. S. Andrews. No. 1,428,519; Sept. 12.
- Vehicle jack. R. S. Clymer. No. 1,410,876; Mar. 21.
- Vehicle jack. A. Merchant, jr. No. 1,426,664; Aug. 22.
- Vehicle jack. P. J. Raymond and G. Adams. No. 1,425,542; Aug. 15.
- Vehicle license sign. D. S. Landstra. No. 1,404,868; Jan. 31.
- Vehicle licenses, Holder for. F. H. Dunn. No. 1,403,302; Jan. 10.
- Vehicle lifting means. A. D. Lightner and E. Holmes. No. 1,427,214; Aug. 29.
- Vehicle light. O. C. Meyer. No. 1,404,041; Jan. 17.
- Vehicle lock. W. Rollins. C. K. Seymour and J. A. Sargent. No. 1,415,401; May 9.
- Vehicle lock. R. Sherman. No. 1,413,194; Apr. 18.
- Vehicle lock. E. Siegel. No. 1,434,966; Nov. 7.
- Vehicle lock, Motor-. J. Pfeifer. No. 1,436,525; Nov. 21.
- Vehicle lock, Motor-. L. C. Vanderlip. No. 1,432,503; Oct. 17.
- Vehicle lock, Motor-. L. C. Vanderlip. No. 1,437,480; Dec. 5.
- Vehicle, Manually-propelled. C. Enache. No. 1,410,245; Mar. 21.
- Vehicle, Manually-propelled. J. F. Wilkinson. No. 1,420,799; June 27.
- Vehicle, Motor. R. M. Anderson. No. 1,439,857; Dec. 26.
- Vehicle, Motor. E. H. Belden. No. 1,421,757; July 4.
- Vehicle, Motor. H. D. Church. No. 1,418,360; June 6.
- Vehicle, Motor. H. D. Church. No. 1,434,428; Nov. 7.
- Vehicle, Motor. H. D. Church and E. G. Gunn. No. 1,430,945; Oct. 3.
- Vehicle, Motor. S. A. Coffey and J. B. Ernsdorff. No. 1,433,122; Oct. 24.
- Vehicle, Motor. S. Coulier. No. 1,433,072; Oct. 24.
- Vehicle, Motor. F. J. Druar. No. 1,422,346; July 11.
- Vehicle, Motor. F. S. Duesenberg. No. 1,405,904; Feb. 7.
- Vehicle, Motor. G. E. Garno. No. 1,412,052; Apr. 11.
- Vehicle, Motor. E. G. Gunn. No. 1,431,112; Oct. 3.
- Vehicle, Motor. E. G. Gunn. Nos. 1,434,610-11; Nov. 7.
- Vehicle, Motor. J. Hamerl. No. 1,431,458; Oct. 10.
- Vehicle, Motor. O. E. Hunt. No. 1,407,418; Feb. 21.
- Vehicle, Motor. F. A. Johanknecht. No. 1,403,249; Jan. 10.
- Vehicle, Motor. A. L. Knapp. No. 1,431,466; Oct. 10.
- Vehicle, Motor. J. Ledwinka. No. 1,431,314; Oct. 10.
- Vehicle, Motor. D. Macdonald. No. 1,428,550; Sept. 12.
- Vehicle, Motor. A. Moorhouse. No. 1,431,480; Oct. 10.
- Vehicle, Motor. A. E. Osborn. No. 1,421,545; July 4.
- Vehicle, Motor. A. E. Osborn. No. 1,423,731; July 25.
- Vehicle, Motor. A. E. Osborn. No. 1,428,053; Sept. 5.
- Vehicle, Motor. A. E. Osborn. No. 1,430,676; Oct. 3.
- Vehicle, Motor. J. F. Overman. No. 1,402,175; Jan. 3.
- Vehicle, Motor. C. J. Reigh. No. 1,428,907; Sept. 12.
- Vehicle, Motor. L. J. Stephenson. No. 1,410,276; Mar. 21.
- Vehicle, Motor. S. R. Underwood. No. 1,414,235; Apr. 25.
- Vehicle, Motor. J. G. Vincent. No. 1,424,427; Aug. 1.
- Vehicle, Motor. J. G. Vincent. Nos. 1,424,693-4; Aug. 1.
- Vehicle, Motor-driven road. H. B. Molesworth. No. 1,404,631; Jan. 24.
- Vehicle, Motor-propelled. H. D. Dargert. No. 1,405,763; Feb. 7.
- Vehicle, Motor road. W. J. Young. No. 1,404,506; Jan. 24.
- Vehicle mounting and drive. J. J. Walk. No. 1,436,373; Nov. 21.
- Vehicle, Occupant-operated. C. Dahl. No. 1,412,276; Apr. 11.
- Vehicle, Parcel-carrying. B. H. Smith. No. 1,407,597; Feb. 21.
- Vehicle, Power-operated. A. S. Osborn. No. 1,411,298; Apr. 4.
- Vehicle protector, Motor-. L. R. Zepka. No. 1,419,093; June 6.
- Vehicle quarter curtain. M. Rahr, jr. No. 1,428,708; Sept. 12.
- Vehicle radiator, Motor-. L. S. Tucker. No. 1,434,724; Nov. 7.
- Vehicle, Railway and tramway. H. N. Gresley. No. 1,412,053; Apr. 11.
- Vehicle, Rear-dump. M. C. Anderson. No. 1,402,730; Jan. 10.
- Vehicle, Rear-dump. A. P. Lee. No. 1,402,30; Jan. 3.
- Vehicle rear end. D. Macdonald. No. 1,431,534; Oct. 10.
- Vehicle, Resilient wheeled. J. L. Garver. No. 1,437,800; Dec. 5.
- Vehicle rim. M. McGlochlin. No. 1,410,106; Mar. 21.
- Vehicle, Road. L. E. de Mole. No. 1,408,569; Mar. 7.
- Vehicle road construction. R. S. Hyson. No. 1,409,952; Mar. 21.
- Vehicle roller jack. J. J. Mizer and V. Jakob. No. 1,437,606; Dec. 5.
- Vehicle runner. N. O. Nelson. No. 1,438,326; Dec. 12.
- Vehicle running and steering gear. H. Freeze. No. 1,413,464; Apr. 18.
- Vehicle running-board brace. E. Prehn. No. 1,439,481; Dec. 19.
- Vehicle safe. W. Ehrlich. No. 1,416,179; May 16.
- Vehicle, Safety motor. A. Tomassette. No. 1,438,878; Dec. 12.
- Vehicle seat. A. A. Kent. No. 1,417,744; May 30.
- Vehicle seat support. B. B. Neuteboom. No. 1,428,652; Sept. 12.
- Vehicle, Self-dumping. F. Finckh. No. 1,427,451; Aug. 29.
- Vehicle, Self-propelled. J. M. Bowen. No. 1,413,215; Apr. 18.
- Vehicle, Self-propelled. W. M. Metcalf. No. 1,404,462; Jan. 24.
- Vehicle shock absorber. R. E. Hasemeier. No. 1,421,223; June 27.
- Vehicle side curtains, Storage sling for. M. Rahr, Jr. No. 1,409,239; Mar. 14.
- Vehicle, Side-dumping. C. A. Davids. No. 1,429,847; Sept. 19.
- Vehicle sign. W. A. Petersen. No. 1,417,767; May 30.
- Vehicle signal. O. L. Dennes. No. 1,425,842; Aug. 15.
- Vehicle signal. P. Gallehue. No. 1,411,719; Apr. 4.
- Vehicle signal. C. H. Georger. No. 1,410,670; Mar. 28.
- Vehicle signal. E. W. House. No. 1,419,854; June 13.
- Vehicle signal. J. H. Kaley. No. 1,424,652; Aug. 1.
- Vehicle signal. F. Major. No. 1,437,533; Dec. 5.
- Vehicle signal. J. Mayer. No. 1,407,471; Feb. 21.
- Vehicle signal. F. Reul. No. 1,419,305; June 13.
- Vehicle signal. V. H. Riley. No. 1,433,231; Oct. 24.
- Vehicle signal. W. E. Root. No. 1,420,343; June 20.
- Vehicle signal. A. C. Schuman. No. 1,409,976; Mar. 21.
- Vehicle signal. R. W. Shurtle. No. 1,425,905; Aug. 15.
- Vehicle signal. G. T. Tompkins. No. 1,435,093; Nov. 7.
- Vehicle signal. G. L. Wenk. No. 1,418,042; May 30.
- Vehicle signal. H. A. Whitman. No. 1,423,285; July 18.
- Vehicle signal. F. H. Wittern. No. 1,411,764; Apr. 4.
- Vehicle signal apparatus. J. W. Brenkert. No. 1,413,959; Apr. 25.
- Vehicle signal, Automatic. J. Scholtz and M. Norton. No. 1,433,156; Oct. 24.
- Vehicle signal device. I. Dyer. No. 1,415,814; May 9.
- Vehicle signal device. S. Keri. No. 1,432,342; Oct. 17.
- Vehicle signal device. O. R. Strawn. No. 1,426,017; Aug. 15.
- Vehicle signal, Motor. E. Aufiero. Nos. 1,414,612-3; May 2.
- Vehicle signal, Motor-. A. L. Austin. No. 1,426,448; Aug. 22.
- Vehicle signaling device. J. F. Strombom. No. 1,419,777; June 13.
- Vehicle signaling device. W. O. Wille. No. 1,430,777; Oct. 3.
- Vehicle signals, Circuit closed for. R. La Selva. No. 1,409,735; Mar. 14.
- Vehicle sled. T. W. Dinning and E. H. Clymer. No. 1,422,041; July 4.
- Vehicle, Snow motor. F. R. Burch. No. 1,431,440; Oct. 10.
- Vehicle spotlight and signal. W. Schierding. No. 1,403,476; Mar. 7.
- Vehicle spring. F. F. Bracy. No. 1,408,858; Mar. 7.
- Vehicle spring. F. V. Cooke. No. 1,421,410; July 4.
- Vehicle spring. H. B. Dipworth. No. 1,422,755; July 11.
- Vehicle spring. J. M. Gaar. No. 1,422,956; July 18.
- Vehicle spring. J. D. Hill. No. 1,411,885; Apr. 4.
- Vehicle spring. A. C. Menges. No. 1,411,640; Apr. 4.
- Vehicle spring. C. J. Skipper. No. 1,437,688; Dec. 5.
- Vehicle spring. C. P. Stanbon. No. 1,418,031; May 30.
- Vehicle spring. P. J. Tacchi. No. 1,433,246; Oct. 24.
- Vehicle spring. J. A. Wallis. No. 1,403,929; Jan. 17.
- Vehicle spring. N. A. Wilson. No. 1,410,439; Mar. 21.
- Vehicle spring. R. Zeppegno. No. 1,404,677; Jan. 24.
- Vehicle spring. R. Zeppegno. No. 1,406,134; Feb. 7.

Alphabetical list of inventions—Continued.

- Vehicle spring and clip therefor. G. E. Wynne. No. 1,427,144; Aug. 29.
- Vehicle spring construction. F. V. Cooke. No. 1,429,902; Sept. 19.
- Vehicle spring construction. W. H. Hill. (Reissue.) No. 1,5326; Apr. 4.
- Vehicle spring device. A. Joël. No. 1,438,115; Dec. 5.
- Vehicle spring lubricator. A. J. Compton. No. 1,427,071; Aug. 22.
- Vehicle-spring lubricator. C. H. Kronewitter. No. 1,418,580; June 6.
- Vehicle, Spring-propelled. P. P. Aust. No. 1,440,126; Dec. 26.
- Vehicle spring support. B. D. Geer. No. 1,417,511; May 30.
- Vehicle spring suspension. E. H. Belden. No. 1,407,914; Feb. 28.
- Vehicle spring suspension. H. M. Crane. No. 1,406,935; Feb. 14.
- Vehicle spring suspension. G. F. Voight. No. 1,412,585; Apr. 11.
- Vehicle spring suspension. R. H. Watkins. No. 1,418,758; June 6.
- Vehicle spring wheel. C. Miethe. No. 1,421,808; July 4.
- Vehicle springing. L. C. Naeser. No. 1,414,147; Apr. 25.
- Vehicle springs, Joint for. L. M. Stellmann. No. 1,431,991; Oct. 17.
- Vehicle springs, Oiling system for. M. Cesak. No. 1,436,012; Nov. 21.
- Vehicle springs, Three-way-fulcrum shackle for. B. C. Seaton. No. 1,412,493; Apr. 11.
- Vehicle stake. W. T. Mears. No. 1,411,576; Apr. 4.
- Vehicle steering lock. M. Tamburini. No. 1,436,416; Nov. 21.
- Vehicle step. C. Gore. No. 1,437,648; Dec. 5.
- Vehicle stopping device. W. Fial. No. 1,419,366; June 13.
- Vehicle support. E. A. Banschbach. No. 1,405,656; Feb. 7.
- Vehicle support. P. C. Simmons. No. 1,416,896; May 23.
- Vehicle-supporting wheels, Pulley attachment for. J. Siembab. No. 1,411,751; Apr. 4.
- Vehicle suspension. H. W. Bell. No. 1,427,933; Sept. 5.
- Vehicle suspension. G. Broulbiet. No. 1,411,159; Mar. 28.
- Vehicle suspension. A. Davidson. No. 1,429,411; Sept. 19.
- Vehicle suspension. R. Guillery. No. 1,422,567; July 11.
- Vehicle suspension. G. H. F. Iloly. No. 1,411,027; Mar. 28.
- Vehicle suspension. B. B. Holmes. No. 1,437,894; Dec. 5.
- Vehicle suspension. B. Liebowitz. Nos. 1,422,586-7; July 11.
- Vehicle suspension. W. R. Williams. No. 1,426,529; Aug. 22.
- Vehicle suspension. W. R. Williams. No. 1,427,081; Aug. 22.
- Vehicle suspension. W. R. Williams. No. 1,427,992; Sept. 5.
- Vehicle suspension. W. P. Wilson. No. 1,408,674; Mar. 7.
- Vehicle suspension, Equalizer for. W. E. Brobst, Jr. No. 1,423,180; July 18.
- Vehicle suspension springs, Bumper attachment for. W. G. Cox. No. 1,419,228; June 13.
- Vehicle telltale signal, Road-. J. J. Skehan and J. A. Faurot. No. 1,413,361; Apr. 18.
- Vehicle thief detector. H. Straub. No. 1,437,619; Dec. 5.
- Vehicle top. G. Baehr. No. 1,419,790; June 13.
- Vehicle top. A. S. Cheston. No. 1,414,178; Apr. 25.
- Vehicle top. H. B. Dewstow. No. 1,403,299; Jan. 10.
- Vehicle top. C. Dumelin. No. 1,437,499; Dec. 5.
- Vehicle top. F. K. Lewis. No. 1,409,013; Mar. 7.
- Vehicle top. W. MacKewen. (Reissue.) No. 1,5392; June 20.
- Vehicle top. A. G. McGregor. No. 1,415,377; May 9.
- Vehicle top. E. A. Rathbun. No. 1,427,328; Aug. 29.
- Vehicle top. J. C. Terry. No. 1,437,950; Dec. 5.
- Vehicle top-bow holder. C. L. Bair. No. 1,408,160; Feb. 28.
- Vehicle top-controlling mechanism. L. E. Shaw. No. 1,435,181; Nov. 14.
- Vehicle top, Convertible open and closed. D. R. Jenkins. No. 1,407,278; Feb. 21.
- Vehicle top curtain. F. L. Burns. No. 1,421,400; July 4.
- Vehicle top, Foldable. J. T. Wolfe. No. 1,423,061; July 18.
- Vehicle top support and holder. H. J. McCafferty. No. 1,437,531; Dec. 5.
- Vehicle tops, Bracket support for. G. W. Scott. No. 1,431,331; Oct. 10.
- Vehicle tops, Fastening device for. C. R. Allen. No. 1,438,353; Dec. 12.
- Vehicle tops, Fastening device for. C. R. Allen. No. 1,416,435; May 16.
- Vehicle-towing crane. A. J. Duken. No. 1,420,369; June 20.
- Vehicle trailer. E. J. Douglas. No. 1,427,365; Aug. 29.
- Vehicle, Transformable. R. Scherl. No. 1,419,769; June 13.
- Vehicle transmission mechanism. J. O. Michaud. No. 1,431,020; Oct. 3.
- Vehicle transmission mechanism, Motor-. P. B. Newkirk. No. 1,417,406; May 23.
- Vehicle truck. E. F. Norelius. No. 1,419,510; June 13.
- Vehicle undercarriage. W. H. Dunkley. No. 1,424,345; Aug. 1.
- Vehicle unloading platform. G. F. Neitzel. No. 1,403,055; Jan. 10.
- Vehicle visor. H. R. Churchill. No. 1,413,259; Apr. 18.
- Vehicle visor. L. W. Swarts. No. 1,413,070; Apr. 18.
- Vehicle warning signal, Semiautomatic motor-. T. H. Bumstead. No. 1,433,119; Oct. 24.
- Vehicle washing machine. M. J. Fenelon. No. 1,423,844; July 25.
- Vehicle wheel. C. B. Allen. No. 1,415,288; May 9.
- Vehicle wheel. M. M. Bailey. No. 1,403,001; Jan. 10.
- Vehicle wheel. A. Balaguer. No. 1,427,429; Aug. 29.
- Vehicle wheel. G. G. Barry. No. 1,432,048; Oct. 17.
- Vehicle wheel. W. F. Betzell. No. 1,415,427; May 9.
- Vehicle wheel. G. L. Bunker. No. 1,410,452; Mar. 21.
- Vehicle wheel. H. C. Calhoun. No. 1,407,252; Feb. 21.
- Vehicle wheel. J. H. Clark. No. 1,421,128; June 27.
- Vehicle wheel. H. F. Cleeve. No. 1,415,991; May 16.
- Vehicle wheel. H. C. Dauphinais. No. 1,439,799; Dec. 26.
- Vehicle wheel. A. B. Fuhr. No. 1,432,390; Oct. 17.
- Vehicle wheel. W. S. Gauntt. No. 1,418,557; June 6.
- Vehicle wheel. A. E. Hall. No. 1,432,690; Oct. 17.
- Vehicle wheel. J. J. Haskin. No. 1,428,229; Sept. 5.
- Vehicle wheel. E. L. Hensley. No. 1,413,115; Apr. 18.
- Vehicle wheel. T. C. Hughes. No. 1,404,960; Jan. 31.
- Vehicle wheel. J. S. Jakubowski. No. 1,430,233; Sept. 26.
- Vehicle wheel. J. Kercher. No. 1,428,241; Sept. 5.
- Vehicle wheel. W. E. Kettering. No. 1,434,546; Nov. 7.
- Vehicle wheel. J. U. Korée and A. M. Malluk. No. 1,428,243; Sept. 5.
- Vehicle wheel. W. C. Kroegher. No. 1,418,656; June 6.
- Vehicle wheel. B. D. Lockwood. No. 1,420,199; June 20.
- Vehicle wheel. A. Mailhot. No. 1,423,574; July 25.
- Vehicle wheel. S. H. Manchester. No. 1,419,975; June 20.
- Vehicle wheel. C. A. Marien. No. 1,424,314; Aug. 1.
- Vehicle wheel. J. M. Miller. No. 1,436,046; Nov. 21.
- Vehicle wheel. S. Munson. No. 1,423,674; July 25.
- Vehicle wheel. T. E. Murray. No. 1,405,617; Feb. 7.
- Vehicle wheel. A. L. Putnam. No. 1,420,862; June 27.
- Vehicle wheel. A. L. Putnam. No. 1,438,400; Dec. 12.
- Vehicle wheel. A. L. Putnam. No. 1,402,443; Jan. 3.
- Vehicle wheel. A. L. Putnam. (Reissue.) No. 15,358; May 16.
- Vehicle wheel. G. E. Riblet. No. 1,414,043; Apr. 25.
- Vehicle wheel. N. M. Robinson. No. 1,422,479; July 11.
- Vehicle wheel. C. F. Rubsam. No. 1,420,448; June 20.
- Vehicle wheel. E. W. Sealy. No. 1,432,265; Oct. 17.
- Vehicle wheel. M. Schocke. No. 1,436,116; Nov. 21.
- Vehicle wheel. B. F. Seymore. No. 1,409,977; Mar. 21.
- Vehicle wheel. E. E. Slick. No. 1,414,437; May 2.
- Vehicle wheel. P. Ugaldea and F. Madinabeitia. No. 1,409,624; Mar. 14.
- Vehicle wheel. R. R. Vale. No. 1,419,329; June 13.
- Vehicle wheel. E. F. Waterbor and T. H. Simpson. No. 1,433,764; Oct. 31.
- Vehicle wheel. P. J. Weirich. Nos. 1,436,840-1; Nov. 28.
- Vehicle wheel. T. C. Whitehead. No. 1,433,164; Oct. 24.
- Vehicle wheel. J. C. Welch and W. F. Altenbaugh. No. 1,406,122; Feb. 7.
- Vehicle wheel. F. H. Wilbur. No. 1,415,751; May 9.
- Vehicle wheel. W. T. Wilder. No. 1,418,221; May 30.
- Vehicle wheel. J. B. Worcester. No. 1,410,865; Mar. 28.
- Vehicle wheel and axle. A. L. Putnam. No. 1,406,759; Feb. 14.
- Vehicle wheel and tire, Resilient. J. J. Charley. No. 1,402,717; Jan. 3.
- Vehicle wheel, Detachable. E. S. Coward. No. 1,434,098; Oct. 31.
- Vehicle wheel drive. J. F. Denison. No. 1,427,584; Aug. 29.
- Vehicle wheel, Dual. A. L. Putnam. No. 1,428,556; Sept. 12.
- Vehicle wheel, Metallic. F. S. Lack. No. 1,439,475; Dec. 19.
- Vehicle wheel, Pneumatic. G. Lentz. No. 1,429,894; Sept. 19.
- Vehicle wheel, Pneumatic or cushion. H. L. Flesher. No. 1,417,311; May 23.
- Vehicle wheel, Resilient. A. Austin. No. 1,427,570; Aug. 29.
- Vehicle wheel, Resilient. J. A. Brennan. No. 1,405,395; Feb. 7.
- Vehicle wheel, Resilient. H. S. Grace. No. 1,437,137; Nov. 28.
- Vehicle wheel, Resilient. J. McLaughlin. No. 1,426,582; Aug. 22.
- Vehicle wheel, Resilient. J. A. Ostendorf. No. 1,415,265; May 9.
- Vehicle wheel, Resilient. J. D. Terrell. No. 1,411,761; Apr. 4.
- Vehicle wheel, Resilient. F. B. Snyder. No. 1,429,787; Sept. 19.
- Vehicle wheel, Resilient. G. Vordermark. No. 1,420,393; June 20.
- Vehicle wheel, Resilient. A. Wiswall. No. 1,424,865; Aug. 8.
- Vehicle wheel, Resilient. F. M. Zottoli. No. 1,435,042; Nov. 7.
- Vehicle wheel, Resilient. F. M. Zottoli. No. 1,438,512; Dec. 12.
- Vehicle wheel, Quick detachable. C. S. Ash. No. 1,414,005; Apr. 25.
- Vehicle wheel, Quick-detachable. C. S. Ash. No. 1,429,394; Sept. 19.

- Vehicle wheel rim. W. N. Booth. No. 1,405,481; Feb. 7.
 Vehicle wheel rim. J. C. Theberath. No. 1,415,963; May 16.
 Vehicle-wheel-rim structure. J. R. Gammeter. No. 1,404,754; Jan. 31.
 Vehicle wheel, Road-. W. Dukes. No. 1,417,152; May 23.
 Vehicle wheels, Apparatus for manufacturing. J. E. Batie. No. 1,416,678; May 23.
 Vehicle wheels, Attachment for motor-. T. F. Mulcahey. No. 1,426,208; Aug. 15.
 Vehicle wheels, Automobile sand and mud dog for attaching to. D. S. Blackwell. No. 1,422,078; July 11.
 Vehicle wheels, Demountable rim for. G. M. Klineline. No. 1,404,864; Jan. 31.
 Vehicle wheels, Detachable tread structure for. A. E. Mueller. No. 1,405,542; Feb. 7.
 Vehicle wheels for arresting lateral splashing, Device applicable to. R. Jones and J. T. Rutherford. No. 1,440,013; Dec. 26.
 Vehicle wheels, Gauge for. J. F. Doby. No. 1,440,067; Dec. 26.
 Vehicle wheels, Ground-gripping device for. G. J. Oestreicher. No. 1,404,312; Jan. 24.
 Vehicle wheels, Making pressed-steel. D. H. Bellamore and T. L. S. Bosk. No. 1,423,747; July 25.
 Vehicle wheels, Means for securing antiskid chains to. C. Ackerberg. No. 1,424,971; Aug. 8.
 Vehicle wheels, Nonskidding attachment for. G. A. Lunz. No. 1,410,200; Mar. 21.
 Vehicle wheels, Nonslipping attachment for. A. L. Forrest. No. 1,409,940; Mar. 21.
 Vehicle wheels, Pneumatic element for. S. Amoroso. No. 1,406,324; Feb. 14.
 Vehicle wheels, Rim for. R. S. Bryant. No. 1,439,941; Dec. 26.
 Vehicle wheels, Quick-mounting device for. A. L. Putnam. No. 1,402,440; Jan. 3.
 Vehicle window. J. F. Hurley. No. 1,432,396; Oct. 17.
 Vehicle window frame. C. M. Dwyer. No. 1,414,399; May 2.
 Vehicle with removable interchangeable superstructure. S. Radowicz. No. 1,403,568; Jan. 17.
 Vehicles, Abstract of title for motor. C. C. Chase. No. 1,419,020; June 6.
 Vehicles, Adjustable wind and storm shield for. D. E. Vanderveer. No. 1,414,534; May 2.
 Vehicles, Air pump for motor. C. H. and W. E. Camburn. No. 1,405,397; Feb. 7.
 Vehicles and aircrafts, Electrical equipment of motor. F. H. Bowman and R. L. Aspdon. No. 1,419,607; June 13.
 Vehicles, Antiglare device for motor. W. E. Haseltine. No. 1,429,034; Sept. 12.
 Vehicles, Apparatus and process for raising. J. F. Goodrich. No. 1,412,932; Apr. 18.
 Vehicles, Apparatus for indicating and recording the direction and distance of travel of. A. E. Brewerton. No. 1,415,624; May 9.
 Vehicles, Apparatus for measuring the useful load in spring. O. Sonnlechner and J. Schidlovsky. No. 1,432,631; Oct. 17.
 Vehicles, Apparatus for testing motor. D. Butler. No. 1,407,377; Feb. 21.
 Vehicles, Arrangement for the instantaneous repairs of suspension springs of. F. R. G. Raynaud. No. 1,421,307; June 27.
 Vehicles, Attachment for motor. E. W. Baxter. No. 1,421,147; June 27.
 Vehicles, Attachment for motor. H. Hueber. No. 1,414,513; May 2.
 Vehicles, Attachment for motor. R. M. Ray. No. 1,436,530; Nov. 21.
 Vehicles, Attachment for motor. J. G. Tennent. No. 1,418,034; May 30.
 Vehicles and other articles, Cleaning paint, grease, dirt, and other matter from. H. G. Alexander. No. 1,437,331; Nov. 28.
 Vehicles and other bodies in motion, Elastic suspension for. F. L. Broussouse and P. J. Leboucher. No. 1,427,060; Aug. 22.
 Vehicles, Automatic locking device for motor and other. J. W. Peacock. No. 1,431,417; Oct. 10.
 Vehicles, Automatic safety fender for motor. C. W. Williams, jr. No. 1,429,055; Sept. 12.
 Vehicles, Automatic steering device for motor. P. S. Bauer. No. 1,418,693; June 6.
 Vehicles, Auxiliary control for motor. G. L. Schofield. No. 1,420,290; June 20.
 Vehicles, Auxiliary propelling means for motor. F. B. Snyder. No. 1,422,795; July 11.
 Vehicles, Auxiliary seat for motor. H. A. MacIardy. No. 1,436,275; Nov. 21.
 Vehicles, Axle and construction for power-driven. V. V. Torbensen. No. 1,417,426; May 23.
 Vehicles, Axle for motor. E. C. Mogford. No. 1,437,474; Dec. 5.
 Vehicles, Axle mounting for motor. E. J. Rantsch. No. 1,426,009; Aug. 15.
 Vehicles, Belt-tractor attachment for motor. E. G. Cox. No. 1,413,100; Apr. 18.
 Vehicles, Brake and clutch control mechanism for self-propelled. H. E. Anderson. No. 1,433,771; Oct. 31.
 Vehicles, Brake for self-propelling. F. H. Ricker. No. 1,435,499; Nov. 14.
 Vehicles, Brake gear for. H. R. Mason. No. 1,413,865; Apr. 25.
 Vehicles, Brake mechanism for chain track. W. Turnbull. No. 1,407,964; Feb. 28.
 Vehicles, Brake mechanism for motor. A. T. Sturt. No. 1,431,131; Oct. 3.
 Vehicles, Braking mechanism for road. G. S. Sheinker. No. 1,427,916; Sept. 5.
 Vehicles, Bumper for motor. A. S. Noonan. No. 1,435,728; Nov. 14.
 Vehicles, Bumper for motor. P. Utne. No. 1,417,118; May 23.
 Vehicles, Bumper for motor-driven. E. F. Lyon. No. 1,413,860; Apr. 25.
 Vehicles, Bumper support for motor. R. B. Fageol. No. 1,405,676; Feb. 7.
 Vehicles, Camping attachment for motor. L. W. R. Andrist. No. 1,426,031; Aug. 15.
 Vehicles, Carrier for attachment to. P. Gundal. No. 1,409,543; Mar. 14.
 Vehicles, Change-speed-gear-operating mechanism for use on motor. F. R. Smith. No. 1,439,337; Dec. 19.
 Vehicles, Chest for motor. H. M. Schoonmaker. No. 1,404,484; Jan. 24.
 Vehicles, Clear-vision windshield for. W. de F. Crowell. No. 1,439,949; Dec. 26.
 Vehicles, Clutch lock for motor. W. B. Huggins. No. 1,412,246; Apr. 11.
 Vehicles, Cold-weather starter for motor-driven. E. C. and E. A. Gehrke. No. 1,419,840; June 13.
 Vehicles, Combined bed, cot, and stretcher for motor. A. J. Dubee. No. 1,402,846; Jan. 10.
 Vehicles, Combined brake mechanism and spring support for motor. J. W. White. No. 1,431,132; Oct. 3.
 Vehicles, Combined light and indicating plate for motor. A. Peel. No. 1,405,157; Jan. 31.
 Vehicles, Contra-piston brake for motor. A. Hulsmann. No. 1,411,887; Apr. 4.
 Vehicles, Control board for motor. J. E. Genn. No. 1,439,511; Dec. 19.
 Vehicles, Control mechanism for motor. L. C. Cameron. No. 1,403,390; Jan. 10.
 Vehicles, Controller for electrical. C. A. Ward. No. 1,425,070; Aug. 8.
 Vehicles, Controlling apparatus for the power of transmission mechanism of motor. I. E. Coffey. No. 1,402,840; Jan. 10.
 Vehicles, Controlling device for trailer. H. D. Lloyd. No. 1,432,401; Oct. 17.
 Vehicles, Cooling device for motor-driven. G. L. Schofield. No. 1,415,122; May 9.
 Vehicles, Coupling for. R. B. Fageol. No. 1,407,019; Feb. 21.
 Vehicles, Coupling for railway and like. J. Mitchell and J. C. G. Cossey. No. 1,431,833; Oct. 10.
 Vehicles, Coupling member for. H. Eckertz. No. 1,422,189; July 11.
 Vehicles, Covering device for folding hoods of. C. Gebhard. No. 1,415,332; May 9.
 Vehicles, Decking and holding device for transporting. W. E. Loucks. No. 1,431,531; Oct. 10.
 Vehicles, Decking apparatus for. E. Holmes. No. 1,421,782; July 4.
 Vehicles, Device for recooling the cooling water of steam-condensing plants on. H. Boltshauser. No. 1,402,043; Jan. 3.
 Vehicles, Differential drive for motor. C. P. Skublin. No. 1,408,835; Mar. 7.
 Vehicles, Differential driving mechanism for motor. J. W. White. No. 1,422,401; July 11.
 Vehicles, Differential for. J. F. Nisewanger. No. 1,418,452; June 6.
 Vehicles, Differential mechanism for motor. J. and P. A. Salazar. No. 1,406,584; Feb. 14.
 Vehicles, Differential power-transmission gearing for automotive. G. A. Bridge. No. 1,437,715; Dec. 5.
 Vehicles, Direction indicator for. G. E. Bates. No. 1,407,831; Feb. 28.
 Vehicles, Direction indicator for. J. B. Bushnell. No. 1,418,531; June 6.
 Vehicles, Direction indicator for motor. F. M. Athons. No. 1,422,330; July 11.
 Vehicles, Direction indicator for motor. G. Olsen. No. 1,403,521; Jan. 17.
 Vehicles, Direction indicator for motor. F. Skarzynski. No. 1,422,005; July 4.
 Vehicles, Direction indicator for motor. D. M. Weaver. No. 1,435,567; Nov. 14.
 Vehicles, Direction signal for. G. F. Krebs. No. 1,402,937; Jan. 10.
 Vehicles, Direction signal for motor. C. G. Bussey. No. 1,434,326; Oct. 31.
 Vehicles, Direction signal for motor. J. J. Judge. No. 1,407,109; Feb. 21.
 Vehicles, Direction signal for motor. V. R. Will. No. 1,420,299; June 20.
 Vehicles, Direction signal for motor. P. Zamolynski. No. 1,429,994; Sept. 26.
 Vehicles, Direction-signaling apparatus for motor. C. C. Heise. No. 1,412,112; Apr. 11.
 Vehicles, Direction-signaling device for. C. Van Dyke. No. 1,430,126; Sept. 26.

Alphabetical list of inventions—Continued.

- Vehicles, Distance-measuring apparatus for. T. Coressey. No. 1,407,986; Feb. 28.
- Vehicles, Distance rod for motor. A. F. Masury. No. 1,405,513; Jan. 17.
- Vehicles, Door-controlled locking mechanism for. E. Keller. No. 1,427,212; Aug. 29.
- Vehicles, Drainage system for. L. Charbonneau. No. 1,415,794; May 9.
- Vehicles, Drive for motor. F. N. Pettegrew. No. 1,440,239; Dec. 26.
- Vehicles, Driving mechanism for. R. Keck. No. 1,435,162; Nov. 14.
- Vehicles, Driving mechanism for. C. H. Young. No. 1,430,139; Sept. 26.
- Vehicles, Driving mechanism for motor. J. W. Moakler. No. 1,438,051; Dec. 5.
- Vehicles, Driving mechanism for motor. E. W. Seaholm. No. 1,434,355; Oct. 31.
- Vehicles, Driving mechanism for motor. C. E. Starr. (Reissue.) No. 15,424; July 25.
- Vehicles, Driving mechanism for motor. C. E. Starr. (Reissue.) No. 15,490; Nov. 14.
- Vehicles, Driving shield for motor. G. N. Hein. No. 1,437,656; Dec. 5.
- Vehicles, Dumping attachment for. A. H. Ash. No. 1,435,369; Nov. 14.
- Vehicles, Eccentric steering device for motor. M. A. Cameron. No. 1,418,698; June 6.
- Vehicles, Elastic connecting shackle for. E. Kuhn. No. 1,428,245; Sept. 5.
- Vehicles, Electric system for motor. T. L. Lee. No. 1,406,039; Feb. 7.
- Vehicles, Emergency bumper for. F. R. L. Stott and E. E. Shierk. No. 1,412,578; Apr. 11.
- Vehicles, Emergency fuel, oil, and water attachment for motor. J. J. Bartoll. No. 1,405,089; Jan. 31.
- Vehicles, Emergency track for motor. W. H. Edgecomb. No. 1,432,447; Oct. 17.
- Vehicles, Endless-track member for the propulsion of. E. Rimailho. No. 1,438,859; Dec. 12.
- Vehicles, Equalizing and steering gearing for motor. J. B. Ramer. No. 1,424,118; July 25.
- Vehicles, Fan mounting for motor. A. M. Leoni. No. 1,426,301; Aug. 15.
- Vehicles, Fare indicator for. F. W. G. Bruhn. No. 1,436,646; Nov. 28.
- Vehicles, Fender for motor. L. Mehlberger. No. 1,438,844; Dec. 12.
- Vehicles, Fender for motor. J. L. Nordnes. No. 1,407,881; Feb. 28.
- Vehicles, Fender for motor-driven. L. Mellett and T. Curran. No. 1,408,117; Feb. 28.
- Vehicles, Folding top for. A. W. Curtis. No. 1,403,738; Jan. 17.
- Vehicles, Friction driving gear for motor. G. S. Mepstead. No. 1,424,581; Aug. 1.
- Vehicles, Front-wheel drive mechanism for motor. F. L. Freeman. No. 1,416,010; May 16.
- Vehicles, Fuel-feeding system for steam motor. J. W. Harrell. No. 1,410,101; Mar. 21.
- Vehicles, Gas lock for motor. F. A. Fitzgerald. No. 1,433,709; Oct. 31.
- Vehicles, Gate for covered. A. D. Daly. No. 1,427,195; Aug. 29.
- Vehicles, Gear-shifting mechanism for motor. W. G. Dunn. No. 1,434,993; Nov. 7.
- Vehicles, Glare shield for motor. W. J. Beagle. No. 1,411,399; Apr. 4.
- Vehicles, Guiding and tracing apparatus for. F. Conzi. No. 1,436,237; Nov. 21.
- Vehicles, Heating attachment for motor. J. D. Shotwell. No. 1,418,208; May 30.
- Vehicles, Hood latch for motor. D. M. White. No. 1,414,242; Apr. 25.
- Vehicles, Hub appliance for motor. H. H. Fitch and E. W. Miller. No. 1,406,836; Feb. 14.
- Vehicles, Ice-rut remover for. L. E. Beers. No. 1,419,350; June 13.
- Vehicles, Identification fender for. L. P. Braddy. No. 1,423,905; July 25.
- Vehicles, Impact-actuated control mechanism for. K. O. Schauman. No. 1,418,678; June 6.
- Vehicles, Lifting jack for. J. M. Tobias. No. 1,406,108; Feb. 7.
- Vehicles, Load bracing and ventilating device for. G. Sykes. No. 1,421,612; July 4.
- Vehicles, Load equalizer for. R. A. Hillstrom. No. 1,403,687; Jan. 17.
- Vehicles, Lock for motor. D. Gagin. No. 1,424,295; Aug. 1.
- Vehicles, Lock for motor. J. Klasnich. No. 1,419,861; June 13.
- Vehicles, Lock for motor. N. E. Rice. No. 1,430,587; Oct. 3.
- Vehicles, Locking device for motor. E. J. Redding. No. 1,415,394; May 9.
- Vehicles, Locking means for motor. L. B. Wright. No. 1,421,054; June 27.
- Vehicles, Luggage-carrier for motor. E. M. Arnold. No. 1,408,965; Mar. 7.
- Vehicles, Means for securing wheels on motor road and other. F. L. Rapson. No. 1,409,777; Mar. 14.
- Vehicles, Means for transmitting rotary motion especially suitable for endless-track. G. J. Rackham. No. 1,436,604; Nov. 21.
- Vehicles, Means for turning motor. L. F. Delaney. No. 1,420,307; June 20.
- Vehicles, Means of control for petrol electric. F. F. Smith. No. 1,405,345; Jan. 31.
- Vehicles, Means of suspension of. P. H. Johnson. No. 1,404,966; Jan. 31.
- Vehicles, Means of suspension of. P. H. Johnson. (Reissue.) No. 15,288; Feb. 21.
- Vehicles, Metal wheel for. P. A. Trepier. No. 1,405,358; Jan. 31.
- Vehicles, Method and means for applying motive power to. J. G. Barnsdale. No. 1,413,955; Apr. 25.
- Vehicles, Mirror attachment for. F. W. Rees. No. 1,426,010; Aug. 15.
- Vehicles, Mixed driving of. H. Pieper. No. 1,402,250; Jan. 3.
- Vehicles, Mud guard for. J. A. Taylor. No. 1,434,929; Nov. 7.
- Vehicles, Mud guard for wheels of. A. Germann and E. Lang. No. 1,415,436; May 9.
- Vehicles, Mud or splash guard for. W. Fairclough. No. 1,417,813; May 30.
- Vehicles, Mud or splash guard for. W. Fairclough. No. 1,429,496; Sept. 19.
- Vehicles of the motor-driven type, System of identification of. F. W. Hough. No. 1,429,347; Sept. 19.
- Vehicles, Operating mechanism for trailer. W. L. Thompson. No. 1,410,083; Mar. 21.
- Vehicles, Pedal device for motor. M. J. B. Barbarou. No. 1,438,288; Dec. 12.
- Vehicles, Pneumatic brake for. R. D. Heath. No. 1,416,822; May 23.
- Vehicles, Power jack for motor. W. P. Beall. No. 1,436,564; Nov. 21.
- Vehicles, Power-transmitting unit for motor-driven. L. A. Wilson. No. 1,411,467; Apr. 4.
- Vehicles, Propeller attachment for. W. E. Kelly. No. 1,425,777; Aug. 15.
- Vehicles, Propelling attachment for children's. F. S. Seagrave. No. 1,419,312; June 13.
- Vehicles, Propelling attachment for children's. F. S. Seagrave. No. 1,425,220; Aug. 8.
- Vehicles, Propulsion unit for. J. A. McGrew and J. T. Loree. No. 1,412,250; Apr. 11.
- Vehicles, Rack structure for. J. Fisher. No. 1,403,307; Jan. 10.
- Vehicles, Radiator for. E. R. Hewitt. No. 1,423,662; July 25.
- Vehicles, Radiator for motor. V. Breuer. No. 1,403,586; Jan. 17.
- Vehicles, Radiator for motor. J. D. Harris and T. M. Dalgarn. No. 1,432,461; Oct. 17.
- Vehicles, Radiator for motor. P. Kuhne. No. 1,417,466; May 23.
- Vehicles, Radiator for motor. C. F. Sperry. No. 1,422,315; July 11.
- Vehicles, Radiator mounting for motor. F. G. Alborn. No. 1,406,163; Feb. 14.
- Vehicles, Radius rod for motor. E. M. Sternberg. No. 1,402,806; Jan. 10.
- Vehicles, Resilient attachment for. T. C. Dobbins and D. H. Roby. No. 1,439,617; Dec. 19.
- Vehicles, Resilient wheel for. L. E. Lemley. No. 1,436,178; Nov. 21.
- Vehicles, Resilient wheel for. R. Linn. No. 1,421,508; July 4.
- Vehicles, Resilient wheel for. A. T. Maltby. No. 1,415,888; May 16.
- Vehicles, Resilient wheel for. F. L. Rapson. Nos. 1,413,189-90; Apr. 18.
- Vehicles, Road wheel for motor. L. H. Swain. No. 1,403,821; Jan. 17.
- Vehicles, Roller or ball bearing for electrically-driven. H. K. Angström. No. 1,406,807; Feb. 14.
- Vehicles, Running gear for. J. D. Gardner. No. 1,406,000; Feb. 7.
- Vehicles, Running gear of. F. T. Cadmus, Jr. No. 1,403,288; Jan. 10.
- Vehicles, Safety brake for motor-driven. H. Volden. No. 1,437,696; Dec. 5.
- Vehicles, Safety device for dumping. G. W. Berry. No. 1,404,684; Jan. 24.
- Vehicles, Safety device for electric motor. C. F. G. Sabatier. No. 1,409,202; Mar. 14.
- Vehicles, Safety device for motor. T. F. Robinson. No. 1,407,579; Feb. 21.
- Vehicles, Safety device for motor. M. Swartzman. No. 1,427,242; Aug. 29.
- Vehicles, Safety lock for motor. G. A. Sokolove. No. 1,424,599; Aug. 1.
- Vehicles, Sand-delivery device for. J. C. Taylor. No. 1,421,745; July 4.
- Vehicles, Sand distributor for motor. G. B. Lamping and J. A. Du Laney. No. 1,427,535; Aug. 29.
- Vehicles, Sanding device for. W. L. Fournier. No. 1,424,758; Aug. 8.
- Vehicles, Seat upholstery for. F. W. Hanneman. No. 1,431,581; Oct. 10.
- Vehicles, Shield for motor. J. J. Gough. No. 1,413,475; Apr. 18.

Alphabetical list of inventions—Continued.

- Vehicles, Shock absorber for. J. Eckhard. No. 1,426,051; Aug. 15.
- Vehicles, Shock absorber for. R. E. Hasemeier. No. 1,424,475; Aug. 1.
- Vehicles, Shock-absorbing device for. R. H. Hassler. No. 1,424,902; Aug. 8.
- Vehicles, Shutter control for. J. W. Applin and H. L. Watson. No. 1,412,822; Apr. 18.
- Vehicles, Side-curtain confiner for. G. R. Shepherd. No. 1,407,091; Feb. 21.
- Vehicles, Side curtain for motor. G. W. Scott. No. 1,436,781; Nov. 28.
- Vehicles, Signal device for motor. W. W. Huelster. Nos. 1,403,498-9; Jan. 17.
- Vehicles, Signal for motor. G. B. Ewart and H. R. Milligan. No. 1,403,150; Jan. 10.
- Vehicles, Signal for motor-driven. J. A. Beemer. No. 1,419,105; June 6.
- Vehicles, Signaling apparatus for use with motor-driven and other. W. M. Rolph. No. 1,406,493; Feb. 14.
- Vehicles, Sled attachment for wheeled. W. and P. Caron. No. 1,438,359; Dec. 12.
- Vehicles, Sled-runner attachment for motor. J. G. Scholz and E. Weller. No. 1,425,609; Aug. 15.
- Vehicles, Sleigh runner for motor. H. T. Miller. No. 1,406,207; Feb. 14.
- Vehicles, Sliding side light for motor. E. J. Lieniz. No. 1,414,783; May 2.
- Vehicles, Speed indicator for. J. O. Gonzalez. No. 1,439,234; Dec. 19.
- Vehicles, Speed-limiting mechanism for. L. Saives. No. 1,424,523; Aug. 1.
- Vehicles, Speed regulator for motor. A. L. McMurtry. No. 1,431,169; Oct. 10.
- Vehicles, Spring device for. A. Joël. No. 1,412,349; Apr. 11.
- Vehicles, Spring-equalizer device for. H. Johnson. No. 1,430,381; Sept. 26.
- Vehicles, Spring for motor road. F. W. Johnstone. No. 1,414,813; May 2.
- Vehicles, Spring guard for. L. H. B. Hand. No. 1,424,014; July 25.
- Vehicles, Spring steering fork for wheeled. C. E. Cochran. No. 1,422,671; July 11.
- Vehicles, Spring support for. A. Hupp. No. 1,410,313; Mar. 21.
- Vehicles, Spring support for. A. Hupp. No. 1,416,469; May 16.
- Vehicles, Spring support for. H. Lübeck. No. 1,428,699; Sept. 12.
- Vehicles, Spring suspension for. E. H. Belden. No. 1,407,917; Feb. 28.
- Vehicles, Spring Suspension for. E. H. Belden. No. 1,421,758; July 4.
- Vehicles, Spring suspension for. E. H. Belden. No. 1,421,760; July 4.
- Vehicles, Spring suspension for. J. H. Chandler. No. 1,431,632; Oct. 10.
- Vehicles, Spring suspension for. E. J. L. Gauthier. No. 1,425,849; Aug. 15.
- Vehicles, Spring suspension for. A. E. Thorne. No. 1,433,432; Oct. 24.
- Vehicles, Spring suspension for. G. F. Voight. No. 1,403,926; Jan. 17.
- Vehicles, Spring suspension for motor. E. H. Belden. No. 1,407,915; Feb. 28.
- Vehicles, Spring suspension for motor. H. N. Garson. No. 1,412,733; Apr. 11.
- Vehicles, Spring suspension means for. H. K. Thomas. No. 1,440,188; Dec. 26.
- Vehicles, Spring suspension mechanism for. F. H. Headley. No. 1,428,166; Sept. 5.
- Vehicles, Spring suspension of. J. R. M. Stanfield. No. 1,427,240; Aug. 29.
- Vehicles, Spring suspension of motor road. L. E. Cowey. No. 1,435,915; Nov. 21.
- Vehicles, Spring wheel for. J. Watson. No. 1,414,003; Apr. 25.
- Vehicles, Stabilizing means for suspended. H. Mercier. No. 1,423,002; July 18.
- Vehicles, Starting and lighting system for motor. J. K. Delano. No. 1,419,825; June 13.
- Vehicles, Starting device for motor-driven. H. Knecht. No. 1,436,176; Nov. 21.
- Vehicles, Steering apparatus for motor. C. G. Willett. No. 1,438,734; Dec. 12.
- Vehicles, Steering arrangement for motor. E. Zaparka. No. 1,439,463; Dec. 19.
- Vehicles, Steering device for motor. W. B. Thomas. No. 1,425,723; Aug. 15.
- Vehicles, Steering device for motor. P. M. Wilson. No. 1,416,921; May 23.
- Vehicles, Steering mechanism for motor. H. M. Denyes. No. 1,425,754; Aug. 15.
- Vehicles, Steering mechanism for motor. G. H. Hannum. No. 1,425,765; Aug. 15.
- Vehicles, Steering-wheel lock for. H. L. Smith. No. 1,423,632; July 25.
- Vehicles, Steering-wheel lock for motor. C. M. Grey. No. 1,424,353; Aug. 1.
- Vehicles, Stop and turn signal for. E. A. Fehring. No. 1,415,538; May 9.
- Vehicles, Support for. H. F. Klock. No. 1,428,964; Sept. 12.
- Vehicles, System of elastic lateral balancing for. P. J. Leboucher. No. 1,438,837; Dec. 12.
- Vehicles, System of suspension for. R. Bernat. No. 1,436,144; Nov. 21.
- Vehicles, Tandem rear drive for motor. A. H. Leipert. No. 1,402,301; Jan. 3.
- Vehicles, Telephone attachment for motor. J. A. Moren. No. 1,416,116; May 16.
- Vehicles, Testing machine for motor. C. B. Ginn. No. 1,421,000; June 27.
- Vehicles, Theft-preventing device for. J. A. Johnson and J. P. Thompson. No. 1,438,709; Dec. 12.
- Vehicles, Theft-preventing device for motor. O. M. Rice. No. 1,402,446; Jan. 3.
- Vehicles, Theft signal for motor. L. R. Zepka. No. 1,422,404; July 11.
- Vehicles, Theft signal for motor. L. R. Zepka. No. 1,425,159; Aug. 8.
- Vehicles, Throttle-valve lock for motor. L. E. Bigelow. No. 1,403,379; Jan. 10.
- Vehicles, Tilting reflector for motor. H. L. Watson. No. 1,421,630; July 4.
- Vehicles, Tipping means for motor. R. S. Wooldridge. No. 1,413,309; Apr. 18.
- Vehicles, Top for. T. H. Jones. No. 1,407,198; Feb. 21.
- Vehicles, Top for motor. M. Buch. (Reissue.) No. 1,549,992; Dec. 5.
- Vehicles, Towing apparatus for motor. J. Thoennes. No. 1,434,512; Nov. 7.
- Vehicles, Track for endless-track. G. J. Rackham. No. 1,434,630; Nov. 7.
- Vehicles, Track for endless-track. G. J. Rackham. No. 1,440,243; Dec. 26.
- Vehicles, Traction attachment for motor. H. Lantz. No. 1,435,863; Nov. 14.
- Vehicles, Traction device for. E. Helm. No. 1,429,589; Sept. 19.
- Vehicles, Traction device for extracting stalled. W. F. Patterson. No. 1,403,190; Jan. 10.
- Vehicles, Traction device for motor. R. W. Henry. No. 1,404,767; Jan. 31.
- Vehicles, Traffic signal for motor. F. M. Elliott. No. 1,415,817; May 9.
- Vehicles, Traffic signal for motor. S. M. Pontiere. No. 1,410,502; Mar. 21.
- Vehicles, Traffic-signaling means for. F. W. Hottenroth. No. 1,403,082; Jan. 10.
- Vehicles, Trailer for land. W. F. Brown. No. 1,404,575; Jan. 24.
- Vehicles, Train of. E. L. P. Colardeau. No. 1,416,613; May 16.
- Vehicles, Transmission lock for motor. R. H. McDonough. No. 1,405,603; Feb. 7.
- Vehicles, Transmission mechanism for. E. W. Seaholm. No. 1,436,913; Nov. 28.
- Vehicles, Turning device for motor. E. C. Gledhill. No. 1,430,545; Oct. 3.
- Vehicles, Turntable for motor. O. M. Prince. No. 1,404,479; Jan. 24.
- Vehicles, Two-speed final-drive gear set for motor. A. J. Schubert. No. 1,407,226; Feb. 21.
- Vehicles, Unloading apparatus for. H. V. Stuth. No. 1,414,600; May 2.
- Vehicles, Ventilating system for. L. E. Alkire and W. H. Carter. No. 1,439,681; Dec. 26.
- Vehicles, Vision shield for. L. Lawson. No. 1,427,605; Aug. 29.
- Vehicles, Wheel for. R. T. Smith. No. 1,402,678; Jan. 3.
- Vehicles, Winch system for. A. E. Norris. No. 1,433,091; Oct. 24.
- Vehicles, Windshield for. W. de F. Crowell. No. 1,403,488; Jan. 17.
- Vehicles, Window of road. F. J. Rees. No. 1,420,617; June 20.
- Velocipede. C. W. Bennett. Nos. 1,422,171-2; July 11.
- Velocipede. J. Chochol. No. 1,411,407; Apr. 4.
- Velocipede. L. J. Cooper. No. 1,404,274; Jan. 24.
- Velocipede. F. Deuisow. No. 1,436,950; Nov. 28.
- Velocipede. J. Hudry. No. 1,434,701; Nov. 7.
- Velocipede. S. Rickey. No. 1,427,417; Aug. 29.
- Velocipede. W. R. Williams. No. 1,419,341; June 13.
- Velocipede, Galloping. W. H. Banks. No. 1,439,394; Dec. 19.
- Velocipede, propelling mechanism. M. Wagner. No. 1,420,394; June 20.
- Velocipedes, Brake-operating device for. I. Koechlin. No. 1,440,017; Dec. 26.
- Velocipedes, Combined propelling and steering mechanism for. M. Wagner. No. 1,420,791; June 27.
- Velocipedes, Driving mechanism for. G. Eklund. No. 1,425,082; Aug. 8.
- Vending apparatus. E. C. Boyce. No. 1,424,074; July 25.
- Vending apparatus, Liquid-. F. Woodruff. No. 1,404,418; Jan. 24.
- Vending device, Cup and beverage. R. H. Baker. No. 1,437,485; Dec. 5.
- Vending machine. S. C. Barr. No. 1,416,159; May 16.
- Vending machine. R. C. Burnham. No. 1,424,150; Aug. 1.
- Vending machine. A. A. Fagen. No. 1,412,464; Apr. 11.
- Vending machine. J. Fritsche and J. C. Hadik. No. 1,437,970; Dec. 5.

Alphabetical list of inventions—Continued.

- Vending machine. E. E. Hartman. No. 1,429,505; Sept. 19.
- Vending machine. O. J. Hotaling. No. 1,414,085; Apr. 25.
- Vending machine. G. B. Smith. No. 1,417,578; May 30.
- Vending machine. W. W. Wasson. No. 1,414,909; May 2.
- Vending machine. A. Ziegler. No. 1,433,444; Oct. 24.
- Vending machine. J. Zsoldos. No. 1,435,441; Nov. 14.
- Vending machine and the like. G. C. Reith. No. 1,421,831; July 4.
- Vending machine, Automatic food-. J. Zsoldos. No. 1,435,440; Nov. 14.
- Vending machine, Automatic mixer for beverage-. D. J. Butterfield. No. 1,436,009; Nov. 21.
- Vending machine, Beverage-. D. J. Butterfield. No. 1,407,838; Feb. 28.
- Vending machine, Bottled-drink-. J. H. Carroll. Nos. 1,419,219-20; June 13.
- Vending machine, Coin-controlled. F. M. Case. No. 1,414,502; May 2.
- Vending machine, Coin-controlled. H. Giles. Nos. 1,420,834-5; June 27.
- Vending machine, Coin-controlled. H. Giles. No. 1,421,453; July 4.
- Vending machine, Coin-controlled. A. D. Grover. No. 1,415,337; May 9.
- Vending machine, Coin-controlled. A. D. Grover. Nos. 1,418,300-1; June 6.
- Vending machine, Coin-controlled. B. Jahn. No. 1,419,055; June 6.
- Vending machine, Coin-controlled. J. H. Mann, Jr. No. 1,408,112; Feb. 28.
- Vending machine, Coin-controlled. F. Millard. No. 1,412,565; Apr. 11.
- Vending machine, Coin-controlled. J. Riedmueller. No. 1,429,633; Sept. 19.
- Vending machine, Ice-cream. E. Wisroth. No. 1,431,437; Oct. 10.
- Vending-machine indicator. A. D. Grover. No. 1,407,063; Feb. 21.
- Vending machine, Legal-blank-. J. O. Davis and J. H. Stice. No. 1,407,842; Feb. 28.
- Vending machine, Liquid-. J. Fritsche. No. 1,421,689; July 4.
- Vending machine, Liquid-. J. Rinaldi. No. 1,430,189; Sept. 26.
- Vending machine, Postage-stamp-. C. D. Pruitt. No. 1,410,955; Mar. 28.
- Vending machine, Stamp-. E. A. Bolen. No. 1,419,353; June 13.
- Vending machine, Stamp-. C. S. Cone. No. 1,407,639; Feb. 21.
- Vending machine, Stamp-. J. J. Schermack. No. 1,438,265; Dec. 12.
- Vending receptacle. F. R. Greene. No. 1,418,560; June 6.
- Vencer and the like, Supporting means for strips of. A. H. Nordyke. No. 1,418,014; May 30.
- Vencer drier. A. S. Nichols. No. 1,431,138; Oct. 3.
- Veneering. N. Hansen. No. 1,433,077; Oct. 24.
- Veneering apparatus. J. Herman. No. 1,428,692; Sept. 12.
- Veneral disease, Treatment for. W. E. Craig. (Reissue.) No. 15,411; July 18.
- Venetian blind. P. H. Wilson and C. H. Sapper. No. 1,434,867; Nov. 7.
- Vent plug. J. Pickard. No. 1,431,034; Oct. 3.
- Ventilated block. E. L. Page. No. 1,404,161; Jan. 17.
- Ventilating box bases, Making the connections for. C. C. Shipp. No. 1,430,120; Sept. 26.
- Ventilating device. D. M. Edwards. No. 1,405,820; Feb. 7.
- Ventilating device. D. T. Lyon. No. 1,425,028; Aug. 8.
- Ventilating device. H. J. Smith. No. 1,402,101; Jan. 3.
- Ventilating-hood-lifting device. P. Hossfeld. No. 1,415,507; May 9.
- Ventilating system. E. B. Arnold. No. 1,408,432; Mar. 7.
- Ventilating unit. W. Shurtleff. No. 1,437,866; Dec. 5.
- Ventilating vehicular tunnels, Method and means for. J. M. Seymour. No. 1,418,980; June 6.
- Ventilator. See—
 Automobile ventilator. Room ventilator.
 Closable ventilator. Rotary ventilator.
 Coach ventilator. Sash ventilator.
 Cowl ventilator. Skylight ventilator.
 Engine ventilator. Tent ventilator.
 Mine ventilator. Tunnel ventilator.
 Revolving ventilator. Window ventilator.
- Ventilator. J. C. Armstrong. No. 1,432,517; Oct. 17.
- Ventilator. G. C. Breidert. No. 1,435,913; Nov. 21.
- Ventilator. C. P. Caldwell. No. 1,408,441; Mar. 7.
- Ventilator. H. M. Case. No. 1,412,607; Apr. 11.
- Ventilator. R. S. Clark. No. 1,436,649; Nov. 28.
- Ventilator. T. C. Crouch. No. 1,407,129; Feb. 21.
- Ventilator. R. Herdlicka. No. 1,427,463; Aug. 29.
- Ventilator. H. Molenda. No. 1,430,828; Oct. 3.
- Ventilator. W. W. Morey. No. 1,417,194; May 23.
- Ventilator. L. W. Nichols and W. Leedy. No. 1,412,063; Apr. 11.
- Ventilator. N. A. Petry. No. 1,402,647; Jan. 3.
- Ventilator. W. Reenstrom. No. 1,424,944; Aug. 8.
- Ventilator. L. B. Smith. No. 1,430,599; Oct. 3.
- Ventilator. J. Sylvan. Nos. 1,410,623-4; Mar. 28.
- Ventilator. J. Sylvan. No. 1,432,135; Oct. 17.
- Ventilator. F. J. Tomsek. No. 1,406,783; Feb. 14.
- Ventilator. E. Van Noorden. No. 1,415,500; May 9.
- Ventilator. W. S. and G. O. Webster. No. 1,420,002; June 20.
- Ventilator. J. G. Williams. No. 1,433,769; Oct. 31.
- Ventilator. H. J. Yeldham. No. 1,406,321; Feb. 14.
- Ventilator and chimney cap. R. T. Merrill. No. 1,417,761; May 30.
- Ventilator and the like. E. M. Dyer. No. 1,428,882; Sept. 12.
- Ventilator cap. J. K. Pennington. No. 1,420,142; June 20.
- Ventilator construction, Ridge-. J. Sylvan. No. 1,410,625; Mar. 28.
- Ventilator louvers, Holding means for. W. Skipworth. No. 1,427,917; Sept. 5.
- Ventilator, Revolving. J. W. Tidwell. No. 1,407,179; Feb. 21.
- Ventilator sash. C. L. Harrison. No. 1,408,732; Mar. 7.
- Ventilators, Forming hoods and aprons for. W. Reenstrom. No. 1,424,945; Aug. 8.
- Ventilators, Insect-excluding device for use on greenhouse. E. May, Jr., R. J. Bullen and A. Voigt. No. 1,402,241; Jan. 3.
- Venting washer. C. R. Underhill. No. 1,436,738; Nov. 28.
- Verifying machine. J. T. Schaff. No. 1,426,223; Aug. 15.
- Vermin exterminator. W. W. Camp. No. 1,422,831; July 18.
- Vessel, Aerial. R. C. Rimmer. No. 1,432,209; Oct. 17.
- Vessel and making same, Drinking. H. A. House. No. 1,417,916; May 30.
- Vessel, Cooking. E. G. Rowley. No. 1,406,159; Feb. 7.
- Vessel cover. T. Harrington. No. 1,411,093; Mar. 28.
- Vessel for and method of forming defense fortifications. A. McDougall. No. 1,435,018; Nov. 7.
- Vessel-handle shield. C. G. Thronson. No. 1,411,070; Mar. 28.
- Vessel, Marine. J. C. Christiansen. No. 1,408,270; Feb. 28.
- Vessel, Marine. H. G. C. Frahm. No. 1,427,526; Aug. 29.
- Vessel, Nonsinkable. H. F. Waitz. No. 1,428,461; Sept. 5.
- Vessel, Sailing. C. W. A. Koelkebeck. No. 1,438,246; Dec. 12.
- Vessel, Salvage. J. F. Lukomske. No. 1,413,413; Apr. 18.
- Vessel-salvaging apparatus. C. Bunk and H. F. Kuechler. No. 1,405,895; Feb. 7.
- Vessel, Sheet-metal. V. Mauck. No. 1,427,404; Aug. 29.
- Vessel-supporting device, Cooking. C. L. Lumby. No. 1,406,399; Feb. 14.
- Vessel, Towing. T. S. Miller. No. 1,423,576; July 25.
- Vessels, Apparatus for filling. F. L. Shelor. No. 1,437,916; Dec. 5.
- Vessels, Apparatus for raising sunken. J. A. De Vito. Nos. 1,415,532-3; May 9.
- Vessels, Art of and apparatus for closures for containing. A. D. Smith. No. 1,420,875; June 27.
- Vessels, Closure for containing. A. D. Smith. No. 1,420,768; June 27.
- Vessels, Detachable handle for. J. J. Kirby. No. 1,419,860; June 13.
- Vessels, Device for raising sunken. J. W. Reno. No. 1,416,754; May 23.
- Vessels for liquids, Scale for transparent. L. E. Baker. No. 1,409,993; Mar. 21.
- Vessels from barnacles and the like, Method and apparatus for freeing the bottoms of. J. W. Van Meter. No. 1,430,773; Oct. 3.
- Vessels, Hull construction for submarine and like. F. Cossutta. No. 1,428,218; Sept. 5.
- Vessels, Insulated handle for. S. G. Wilkes. No. 1,436,466; Nov. 21.
- Vessels, Making double-walled glass. M. Gumbert. No. 1,411,781; Apr. 4.
- Vessels, Means for propelling. H. A. J. de Bijl Nachen-jus. No. 1,437,350; Nov. 28.
- Vessels, Method of and apparatus for raising submerged. F. W. Ebeling. No. 1,428,538; Sept. 12.
- Vessels, Propeller for. C. M. Motte. No. 1,408,765; Mar. 7.
- Vessels, Propulsion means for. J. R. Porter. No. 1,440,242; Dec. 26.
- Vest, Conductor's. S. M. Bloch. No. 1,407,459; Feb. 21.
- Vest, jacket, and the like. I. Abrams. No. 1,421,131; June 27.
- Veterinary surgical instrument. O. Stader. No. 1,422,490; July 11.
- Vibrating structures, Suspension device for. T. C. Roberts. No. 1,435,258; Nov. 14.
- Vibrating system. J. P. Maxfield. No. 1,434,788; Nov. 7.
- Vibration detector. H. T. Kohlhaas. No. 1,405,849; Feb. 7.
- Vibration detector. J. P. Maxfield. No. 1,406,672; Feb. 14.
- Vibration recorder. F. Pampinella. No. 1,413,771; Apr. 25.
- Vibrator. B. Gilberti. No. 1,416,281; May 16.
- Vibrator. H. Prell. No. 1,437,014; Nov. 28.
- Vibrator, Vacuum. J. G. Stephenson and F. W. Nuerwell. No. 1,420,884; June 27.
- Views, designs, or characters, Apparatus for the change of. P. L. Bovier. No. 1,432,662; Oct. 17.
- Vignetting tool. W. J. McCarthy. No. 1,422,773; July 11.
- Vine support. J. H. McQuaid. No. 1,432,403; Oct. 17.
- Vine take-off. E. C. Horst. No. 1,430,653; Oct. 3.
- Viner, Green-pea. F. Hamache. No. 1,421,772; July 4.

Alphabetical list of inventions—Continued.

- Viners, Screen drum for. F. Hamachek. No. 1,405,914; Feb. 7.
- Vinyl halides, Manufacture of. H. Plauson. No. 1,425,130; Aug. 8.
- Violin. J. W. Kincannon. No. 1,413,916; Apr. 25.
- Violin body. W. J. Lucas. No. 1,438,386; Dec. 12.
- Violin bouts, Cramping form for. W. F. Bublitz. No. 1,415,144; May 9.
- Violin bow. G. M. Loth. No. 1,421,510; July 4.
- Violin bow. J. Stadniczek. No. 1,402,908; Jan. 10.
- Violin bows, Finger grip for. H. L. Johnson. No. 1,435,926; Nov. 21.
- Violin chin rest. O. S. Colbentson. No. 1,435,280; Nov. 14.
- Violin E strings, Tightener for. H. S. Jackman. No. 1,433,376; Oct. 24.
- Violin, Electric self playing. B. E. Mills. No. 1,425,533; Aug. 15.
- Violin shoulder rest. G. W. Jordan. No. 1,416,644; May 16.
- Violin strings, Tension adjuster for. J. Schwartz. No. 1,432,089; Oct. 17.
- Violins and analogous string instruments, Attachment for. W. I. Brown. No. 1,422,827; July 18.
- Violins and other stringed instruments, Bridge for. J. B. Parent. No. 1,433,409; Oct. 24.
- Violins, String adjustment for. A. J. Oettinger. No. 1,431,250; Oct. 10.
- Violins, Supporting attachment for. C. A. Kenne. No. 1,431,007; Oct. 3.
- Violins, Tremolo device for electric self-playing. B. E. Mills. No. 1,407,434; Feb. 21.
- Viscose, Manufacture of artificial goods from. M. Luft. No. 1,407,696; Feb. 28.
- Viscose silk, Manufacture of. E. Bronnert. No. 1,419,714; June 13.
- Viscose solutions, Manufacture of. W. P. Dreaper. No. 1,418,135; May 30.
- Viscose, Treatment of artificial goods from. M. Luft. No. 1,404,535; Jan. 24.
- Viscosimeter. H. N. Moody. No. 1,405,538; Feb. 7.
- Viscosimeter. L. L. Tiffany. No. 1,427,922; Sept. 5.
- Viscous materials, Converting. J. P. Hooper. No. 1,413,332; Apr. 18.
- Vise. M. S. Cumner. No. 1,406,981; Feb. 21.
- Vise. J. P. Fegely and J. H. Newhard. No. 1,435,595; Nov. 14.
- Vise. W. Franck. No. 1,407,743; Feb. 28.
- Vise. E. W. Fulton. No. 1,404,109; Jan. 17.
- Vise. E. Goodreau. No. 1,430,226; Sept. 26.
- Vise. C. Kenter. No. 1,402,619; Jan. 3.
- Vise. J. R. Martin. No. 1,405,306; Jan. 31.
- Vise. C. McCarter. No. 1,413,676; Apr. 25.
- Vise. J. J. Moore. No. 1,423,774; July 25.
- Vise. O. S. Petterson. No. 1,418,733; June 6.
- Vise. L. Posch. No. 1,405,325; Jan. 31.
- Vise. A. W. Rawling. No. 1,430,260; Sept. 26.
- Vise. L. S. Starrett. No. 1,428,996; Sept. 12.
- Vise. T. Szylderowicz. No. 1,406,102; Feb. 7.
- Vise, Anvil horseshoe. E. Frazer. No. 1,419,132; June 13.
- Vise, Bench. W. H. Bryan, Jr. No. 1,417,025; May 23.
- Vise, Bench. A. E. Church. No. 1,436,860; Nov. 28.
- Vise, Bench. H. E. Hagmueller. No. 1,405,840; Feb. 7.
- Vise grip. F. Johnson. No. 1,439,822; Dec. 26.
- Vise, Hand. S. M. Gibbs. No. 1,414,354; May 2.
- Vise, Hand. W. G. Sahlin. No. 1,402,893; Jan. 10.
- Vise having instantaneous tightening and loosening action. M. A. L. Rocher. No. 1,406,901; Feb. 14.
- Vise jaws, Attachment for. O. A. Webster. No. 1,426,026; Aug. 15.
- Vise, Machine. J. A. Olson. No. 1,416,970; May 23.
- Vise, Parallel. F. Aeschbach. No. 1,403,997; Jan. 17.
- Vise, Parallel. A. Ober. No. 1,440,167; Dec. 26.
- Vise, Pipe. O. C. Cox. No. 1,410,553; Mar. 28.
- Vise, Quick-acting. W. S. Munger. No. 1,411,578; Apr. 4.
- Vise, Quick-acting pipe. F. J. Callan. No. 1,421,065; June 27.
- Vise, Quick-setting. G. H. Buckley. No. 1,415,787; May 9.
- Vise, Quick-shift bench. G. H. Buckley. No. 1,412,798; Apr. 11.
- Vise slide. P. H. D. Walker. No. 1,421,112; June 27.
- Vise stand. A. J. Wimberg. No. 1,408,675; Mar. 7.
- Vises, Handle for blacksmiths'. G. Rees. No. 1,422,478; July 11.
- Vises or wrenches, Quick-action device for. F. W. McQueen. No. 1,415,103; May 9.
- Visibility of an object on the water, Device for lessening the. W. Thorne. No. 1,434,167; Oct. 31.
- Visibility of objects, Diminishing the. T. E. Tesse. No. 1,426,521; Aug. 22.
- Visual signaling means. E. A. Sperry. No. 1,426,338; Aug. 15.
- Voice intensifier. I. V. Morrell. No. 1,415,462; May 9.
- Voltage of metal vapor-rectifier installations, Apparatus for regulating the. J. Jonas. No. 1,434,346; Oct. 31.
- Voltage-producing means, High. L. W. Chubb. No. 1,435,210; Nov. 14.
- Voltage-regulating circuit. S. Suekoff. No. 1,439,036; Dec. 19.
- Voltage-regulating system. G. Faccioli. No. 1,423,926; July 25.
- Voltage regulation. J. C. Armor. No. 1,414,248; Apr. 25.
- Voltage regulator. D. P. Ruger. No. 1,402,656; Jan. 3.
- Voltage-regulator mechanism. F. H. Patten. No. 1,435,254; Nov. 14.
- Voltage-regulator system. C. A. Boddie. No. 1,437,087; Nov. 28.
- Voltage-regulator system. E. Lehr. No. 1,419,458; June 13.
- Volt-ampere meter. D. J. Angus. (Reissue). No. 15,370; June 6.
- Volt-ampere meter, Reactive. J. W. West. No. 1,425,818; Aug. 15.
- Volute springs from metal ribbons, Producing. W. Drewitz. No. 1,412,302; Apr. 11.
- Voting apparatus. H. J. Sproat. No. 1,420,879; June 27.
- Voting booth. I. S. Draper. No. 1,421,423; July 4.
- Voting machine. M. Floro. No. 1,425,955; Aug. 15.
- Voting machine. E. B. Willix. No. 1,425,352; Aug. 8.
- Voucher sheet. F. W. Drew. No. 1,411,847; Apr. 4.
- Vulcanite scraper. G. O. Hannah. No. 1,410,296; Mar. 21.
- Vulcanization. E. Levinstein. No. 1,406,197; Feb. 14.
- Vulcanizing accelerator. M. L. Weiss. No. 1,411,231; Mar. 28.
- Vulcanizer. H. M. Fuller. No. 1,411,658; Apr. 4.
- Vulcanizer. J. E. Henry. No. 1,411,095; Mar. 28.
- Vulcanizer. R. MacDonald. No. 1,410,693; Mar. 28.
- Vulcanizer. W. Reilly. No. 1,407,771; Feb. 28.
- Vulcanizer. P. F. Schecher. No. 1,411,225; Mar. 28.
- Vulcanizer. R. N. Van Buskirk. No. 1,434,270; Oct. 31.
- Vulcanizer, Electric. E. J. Rohne. No. 1,426,603; Aug. 22.
- Vulcanizer, Pressed-steel. F. E. Holcomb. No. 1,436,041; Nov. 21.
- Vulcanizers, Air and steam bag for. C. G. Andrews. No. 1,428,201; Sept. 5.
- Vulcanizing apparatus. J. R. Gammeter. No. 1,414,507; May 2.
- Vulcanizing apparatus. L. Greenwald. No. 1,409,095; Mar. 7.
- Vulcanizing apparatus. H. E. Morriss. No. 1,408,382; Feb. 28.
- Vulcanizing apparatus. W. R. Urquhart, C. W. Post, D. E. Humphrey, and C. C. Van Arsdale. No. 1,422,065; July 4.
- Vulcanizing apparatus, Internal-pressure. J. R. Gammeter. No. 1,435,113; Nov. 7.
- Vulcanizing device. C. J. Drope. No. 1,404,942; Jan. 31.
- Vulcanizing devices, Method and apparatus for manipulating. H. R. Gilson and G. F. Fisher. No. 1,424,470; Aug. 1.
- Vulcanizing equipment. T. Midgley. No. 1,417,551; May 30.
- Vulcanizing form, Collapsible. L. Murray. No. 1,404,217; Jan. 24.
- Vulcanizing machine. G. W. Hayward and F. P. Anderson. No. 1,404,120; Jan. 17.
- Vulcanizing method and apparatus, Continuous. G. W. Bulley. No. 1,411,706; Apr. 4.
- Vulcanizing, Method and apparatus for continuous. O. Grosvenor. No. 1,415,929; May 16.
- Vulcanizing press. E. E. Allen. No. 1,415,082; May 9.
- Vulcanizing press. H. P. L. Laussucg. No. 1,412,119; Apr. 11.
- Vulcanizing tool. J. P. Holden. No. 1,413,533; Apr. 18.
- Wad, Base. G. W. Schauerte. No. 1,438,788; Dec. 12.
- Wafer, Adhesive. C. J. Dexter. No. 1,410,555; Mar. 28.
- Wafer-baking machines, Pump-operating mechanism for. R. E. Baker, E. H. Ford, and I. Elliott. No. 1,407,457; Feb. 21.
- Waffle iron. P. F. Crossan. No. 1,428,476; Sept. 5.
- Waffle iron. H. Kruesheld. No. 1,438,602; Dec. 12.
- Wagon. C. N. Clark. No. 1,434,043; Oct. 31.
- Wagon. G. H. Palmer. No. 1,434,839; Nov. 9.
- Wagon and automobile dump, Combined. F. J. Leech and W. H. Myers. No. 1,429,892; Sept. 19.
- Wagon and automobile truck dumping and weighing platform, Combined. J. Meyer and F. J. Manseau. No. 1,403,805; Jan. 17.
- Wagon and gocart, Combination. W. W. Lincoln. No. 1,406,397; Feb. 14.
- Wagon body. H. Hermanson. No. 1,435,963; Nov. 21.
- Wagon-body construction. W. Kouns. No. 1,429,208; Sept. 12.
- Wagon boxes and other vehicles, Adjustable throw board and rack for. J. W. Hedrick and C. S. Harper. No. 1,407,415; Feb. 21.
- Wagon brake. A. J. Schorr. No. 1,438,613; Dec. 12.
- Wagon brake, Automatic. W. L. Houston. No. 1,407,542; Feb. 21.
- Wagon, Child's coaster. H. J. Loiselle. No. 1,408,616; Mar. 7.
- Wagon, Combination high hoist and dump. J. Gasser. No. 1,435,836; Nov. 14.
- Wagon, Dump. J. Gasser. No. 1,431,942; Oct. 17.
- Wagon, Dump. H. P. Jensen-Bærlund. No. 1,414,954; May 2.
- Wagon, Dump. J. L. Kolbe. No. 1,418,937; June 6.
- Wagon dump. F. W. Lehrack. No. 1,438,218; Dec. 12.
- Wagon, Dump. J. Pullar. No. 1,416,975; May 23.
- Wagon, Dumping. C. N. Clark. No. 1,434,042; Oct. 31.
- Wagon, Dumping. O. G. Mandt. No. 1,411,794; Apr. 4.
- Wagon, Express. F. B. Snyder. No. 1,411,308; Apr. 4.
- Wagon, Farm. F. Brososky. No. 1,428,748; Sept. 12.
- Wagon-gate construction. G. W. and C. E. Goss. No. 1,422,962; July 18.

Alphabetical list of inventions—Continued.

- Wagon jack. W. H. Crout. No. 1,413,262; Apr. 18.
Wagon-loading machine. C. J. Nordlum. No. 1,409,399; Mar. 14.
Wagon, Motor tip. E. R. Walker. No. 1,422,500; July 11.
Wagon-pole extension. C. C. Primus. No. 1,429,769; Sept. 19.
Wagon reach bar. J. A. Moxey. No. 1,419,291; June 13.
Wagon-reach coupling. T. H. Bolte. No. 1,404,264; Jan. 24.
Wagon seal. A. B. Sinha. No. 1,421,033; June 27.
Wagon, Service. W. V. Holley. No. 1,427,888; Aug. 29.
Wagon standard. J. M. Elliott. No. 1,412,106; Apr. 11.
Wagon tongue. J. H. Anderson. No. 1,424,064; July 25.
Wagon, Truck and dump. W. A. Petteys. No. 1,418,163; May 30.
Wagons and other vehicles, Means for tipping. J. N. Whyte. No. 1,402,466; Jan. 3.
Wagons, Body raising and lowering mechanism for. J. Gasser. No. 1,412,681; Apr. 11.
Wagons, Detachable top and seat for school. F. W. Kruger. No. 1,409,555; Mar. 14.
Wagons, Hitch for power-dump. L. Lamoreaux and R. J. Boomer. No. 1,408,895; Mar. 7.
Wagons, Tongue-supporting means for. F. Wallace. No. 1,405,865; Jan. 31.
Wainscots, Manufacturing. M. I. Hörlin. No. 1,430,996; Oct. 3.
Waist, Child's. H. Gray. No. 1,410,401; Mar. 21.
Waistband. M. L. Heller. No. 1,424,724; Aug. 1.
Wall action, Preventing. H. F. Smith. No. 1,417,636; May 30.
Wall, Adjustable partition. -M. Kotun. No. 1,421,089; June 27.
Wall attachment. H. C. Hanson. No. 1,422,052; July 4.
Wall board and making the same. Composition. U. E. Brookby. No. 1,428,827; Sept. 12.
Wall board and plaster composition adapted thereto. J. A. Lockhart. No. 1,423,569; July 25.
Wall board, Drying, curing, and shaping rolls for. G. A. Buttress. No. 1,439,289; Dec. 19.
Wall-board joints, Covering for. J. Schumacher. No. 1,416,888; May 23.
Wall-board structure. R. J. Johnston. No. 1,435,121; Nov. 7.
Wall, Building. T. J. Brumback. No. 1,432,962; Oct. 24.
Wall, Building. J. C. Hain. No. 1,433,005; Oct. 24.
Wall, Building. H. W. Howell. No. 1,421,007; June 27.
Wall-climbing device. C. Henneking. No. 1,427,384; Aug. 29.
Wall construction. E. R. Brainerd. No. 1,428,470; Sept. 5.
Wall construction. W. G. Demarest. No. 1,426,048; Aug. 15.
Wall construction. D. J. Flynn. No. 1,405,995; Feb. 7.
Wall construction. W. R. Forbush. No. 1,420,478; June 20.
Wall construction. J. H. Lewis. No. 1,414,425; May 2.
Wall construction. E. V. Phillips. No. 1,421,986; July 4.
Wall construction. T. Siderits. No. 1,438,340; Dec. 12.
Wall construction and tie therefor. A. O. Thomas. No. 1,439,650; Dec. 19.
Wall construction, Brick. A. D. Bigler. No. 1,419,805; June 13.
Wall construction, Hollow. A. F. Levitt. No. 1,407,349; Feb. 21.
Wall construction, Sheet-piling. C. S. Boardman and C. C. Conkling. No. 1,422,821; July 18.
Wall covering, putty, or the like, Manufacturing material suitable for. K. Wolf. No. 1,418,896; June 6.
Wall coverings, Means for hanging. J. D. Stephens. No. 1,427,333; Aug. 29.
Wall fixture. C. M. Langhorne. No. 1,426,574; Aug. 22.
Wall form or mold. C. Brynoldt. No. 1,413,705; Apr. 25.
Wall mold. C. R. League. No. 1,439,826; Dec. 26.
Wall of blocks of wood and similar material. K. Praetorius. No. 1,418,464; June 6.
Wall or building construction. H. Gauvin. No. 1,402,593; Jan. 3.
Wall plugs from string or like material, Manufacture of tubular. J. J. Rawlings. No. 1,421,806; June 27.
Wall protector. A. G. Hall. No. 1,412,241; Apr. 11.
Wall protector. C. V. Manning. No. 1,434,903; Nov. 7.
Wall protector or shield. J. F. Wendt. No. 1,411,462; Apr. 4.
Wall, Safe or vault. A. Kennedy. No. 1,425,324; Aug. 8.
Wall structure. A. G. and C. F. Cameron. No. 1,408,983; Mar. 7.
Wall structure. F. L. Keppler. No. 1,425,102; Aug. 8.
Wall structures, Means for covering wooden. F. Hummert. No. 1,426,872; Aug. 22.
Wall tie and form holder. H. C. McClure. No. 1,437,323; Nov. 28.
Walls, Corner strip for plastered. E. H. Jones. No. 1,420,010; June 20.
Walls, Footing for cellar. C. F. Weichold. No. 1,430,423; Sept. 26.
Walls for buildings, Construction of hollow. H. V. Kent. No. 1,427,534; Aug. 29.
Walls, Form for hollow molded. J. A. Stulkjare and H. L. Raiff. (Reissue). No. 15,329; Apr. 4.
Walls, making blocks, slabs, tiles, or briquettes, Mold for use in building. B. Scruby and G. K. Harkness. No. 1,423,461; July 18.
Walls of blocks, Guiding means to aid in laying. W. H. Smith. No. 1,414,755; May 2.
Walls of brick and the like, Machine for erecting. S. Kaye. No. 1,411,172; Mar. 28.
Walls or buildings, Constructing. M. M. Smith. No. 1,402,906; Jan. 10.
Walls, Repairing scored-cylinder. G. L. Barrett. No. 1,404,001; Jan. 17.
Walls, Unit slab for building. B. F. Davis. No. 1,428,147; Sept. 5.
Wallets, etc., Removable card holder for. A. Bushnell, Jr. No. 1,408,981; Mar. 7.
Wardrobe hanger. R. S. Kitchingman. No. 1,417,921; May 30.
Wardrobe, Knockdown. H. E. Richmond. No. 1,429,456; Sept. 19.
Wardrobe, Knockdown portable. J. M. Galloway. No. 1,408,284; Feb. 28.
Wardrobe, Portable. H. S. Altman. No. 1,425,228; Aug. 8.
Wardrobe rack. J. Everitt. No. 1,420,534; June 20.
Wardrobe-trunk rack. L. Meyers. No. 1,405,311; Jan. 31.
Warm-air furnace. H. V. McIntosh. No. 1,434,833; Nov. 7.
Warmer, Hand. J. C. Barrow. No. 1,429,397; Sept. 19.
Warming table. H. W. Schwimmer. No. 1,433,157; Oct. 24.
Warning signal. E. Aufiero. No. 1,429,217; Sept. 19.
Warning signal. J. D. Coughlin. No. 1,408,346; Feb. 28.
Warning signal. G. Franchini. No. 1,414,078; Apr. 25.
Warp beam and analogous device. A. Balthasar. No. 1,416,931; May 23.
Warp-dyeing machine. W. F. Haskell. No. 1,402,765; Jan. 10.
Warp-twisting-in machine. J. H. Becker. No. 1,403,067; Jan. 10.
Warp-twisting-in machine. J. H. Becker. No. 1,424,276; Aug. 1.
Warper. R. Schofield. No. 1,439,331; Dec. 19.
Warping machine. W. S. Wells. No. 1,409,129; Mar. 7.
Warping-machine clock. A. Saulnier. No. 1,437,865; Dec. 5.
Washbasin. J. A. Griggs. No. 1,405,205; Jan. 31.
Washbasin. A. Rogers. No. 1,408,402; Feb. 28.
Washboard. W. E. Abbott. No. 1,427,048; Aug. 22.
Washboard. -V. M. De Cano. No. 1,405,764; Feb. 7.
Washboard. R. H. Miller. No. 1,421,094; June 27.
Washboard. S. Robinson. No. 1,435,500; Nov. 14.
Washboard. M. L. Southall. No. 1,438,871; Dec. 12.
Washboard. J. A. Thomas. No. 1,433,431; Oct. 24.
Washboard clamp. F. C. Bohri. No. 1,427,434; Aug. 29.
Washboard holder. A. Pataky. No. 1,409,233; Mar. 14.
Washboards. C. Rush. No. 1,412,710; Apr. 11.
Washboards, Attachment for. E. G. Heffner. No. 1,404,696; Jan. 24.
Washboards, Soap magazine for. F. W. Lehnert. No. 1,431,824; Oct. 10.
Washboiler. J. Brzyski and W. Felski. No. 1,426,257; Aug. 15.
Washboiler and percolator. W. G. Givone. No. 1,433,546; Oct. 31.
Washboiler attachment. B. Ortell. No. 1,411,456; Apr. 4.
Washboiler attachment. J. T. Wood. No. 1,423,823; July 25.
Washboilers, Combined lid and washdrain for. B. M. 1,407,066; Feb. 21.
Washboilers, Protecting shoe for. A. Johnson. No. Boddy. No. 1,437,713; Dec. 5.
Wash furnace, Gasoline. J. V. Adams. No. 1,434,763; Nov. 7.
Wash machines, Lost-motion connection for. E. E. Berthold. No. 1,432,954; Oct. 24.
Wash-room fixture. J. L. Cohen. No. 1,426,046; Aug. 15.
Washstand, Adjustable. M. Seska. No. 1,417,948; May 30.
Washstand, Sanitary. D. A. Leinsetter. No. 1,426,488; Aug. 22.
Wash tub cover, Metallic. D. F. Loudon. No. 1,440,306; Dec. 26.
Washer: See—
Air washer. Lock washer.
Ashes washer. Locking washer.
Automobile washer. Machinery repair washer.
Bottle washer. Nut and washer.
Car washer. Photographic-print washer.
Coal washer. Rotary washer.
Detachable washer. Venting washer.
Fruit washer.
Washer. P. W. Fleischer. No. 1,424,008; July 25.
Washer. E. V. Jungk. No. 1,432,294; Oct. 17.
Washer drive mechanism. A. R. Curtis. No. 1,429,064; Sept. 12.
Washer-placing apparatus. E. E. Winkley. No. 1,422,159; July 11.
Washer, Rotary. R. Tolookjian. No. 1,414,605; May 2.
Washing. N. Lombard. No. 1,411,286; Apr. 4.
Washing and drying machine. A. C. Wheelock. No. 1,413,882; Apr. 25.
Washing and wringing machine. F. M. Case. No. 1,410,652; Mar. 28.
Washing apparatus. O. P. Greenstreet. No. 1,409,292; Mar. 14.
Washing apparatus. E. M. Maull. No. 1,419,399; June 13.

Alphabetical list of inventions—Continued.

- Washing apparatus. A. H. Myers and P. A. Collins. No. 1,410,711; Mar. 28.
- Washing appliance. O. N. Sandholm. No. 1,426,606; Aug. 22.
- Washing machine. C. S. Adams. No. 1,421,055; June 27.
- Washing machine. J. C. Aker and M. C. Williams. No. 1,407,618; Feb. 21.
- Washing machine. A. F. Anderson. No. 1,423,295; July 18.
- Washing machine. A. F. Anderson. No. 1,432,229; Oct. 17.
- Washing machine. G. P. Anstiss. No. 1,415,506; May 9.
- Washing machine. E. F. Beebe. No. 1,438,683; Dec. 12.
- Washing machine. W. S. Benedict. No. 1,413,825; Apr. 25.
- Washing machine. G. S. Blakeslee. No. 1,404,570; Jan. 24.
- Washing machine. G. S. Blakeslee. No. 1,406,968; Feb. 21.
- Washing machine. G. S. Blakeslee. No. 1,426,142; Aug. 15.
- Washing machine. G. S. Blakeslee. No. 1,431,870; Oct. 10.
- Washing machine. T. L. Bradford. No. 1,409,333; Mar. 14.
- Washing machine. G. E. Briery. No. 1,420,963; June 27.
- Washing machine. E. C. Brown. No. 1,435,628; Nov. 14.
- Washing machine. F. D. Brown. No. 1,427,061; Aug. 22.
- Washing machine. A. A. Clark. No. 1,424,154; Aug. 1.
- Washing machine. F. J. Couch. No. 1,418,625; June 6.
- Washing machine. H. S. Craver. No. 1,412,924; Apr. 18.
- Washing machine. T. C. Davis. No. 1,434,595; Nov. 7.
- Washing machine. H. C. Doman. No. 1,422,547; July 11.
- Washing machine. H. C. Doman. No. 1,433,193; Oct. 24.
- Washing machine. A. J. Dremel. No. 1,417,306; May 23.
- Washing machine. C. W. Dunmire and S. C. Enck. No. 1,422,940; July 18.
- Washing machine. J. J. Dunnigan. No. 1,435,823; Nov. 14.
- Washing machine. O. H. Eliel. Nos. 1,436,700-1; Nov. 28.
- Washing machine. H. F. Emme. No. 1,440,140; Dec. 26.
- Washing machine. E. A. Eustice. No. 1,430,065; Sept. 26.
- Washing machine. P. C. Fritz. No. 1,435,460; Nov. 14.
- Washing machine. C. G. Hall. No. 1,421,462; July 4.
- Washing machine. C. W. Hottman, Jr. No. 1,414,468; May 2.
- Washing machine. S. Jacobs. No. 1,430,554; Oct. 3.
- Washing machine. J. Johnson. No. 1,425,204; Aug. 8.
- Washing machine. L. Judelson. No. 1,435,527; Nov. 14.
- Washing machine. J. B. Kirby. No. 1,407,201; Feb. 21.
- Washing machine. C. C. Lamb. No. 1,403,966; Jan. 17.
- Washing machine. C. F. Lockhart and E. H. Roby. No. 1,418,586; June 6.
- Washing machine. P. Makowsky. No. 1,436,718; Nov. 28.
- Washing machine. P. J. Maloney. No. 1,434,554; Nov. 7.
- Washing machine. B. S. McCutchen. No. 1,433,216; Oct. 24.
- Washing machine. H. Methot. No. 1,402,634; Jan. 3.
- Washing machine. W. H. Meyer. No. 1,412,292; Apr. 11.
- Washing machine. E. O'Connell. No. 1,433,221; Oct. 24.
- Washing machine. F. E. Ormsby. No. 1,419,300; June 13.
- Washing machine. R. F. Overlock and L. B. Duntley. No. 1,430,749; Oct. 3.
- Washing machine. W. F. Pagel. No. 1,402,372; Jan. 3.
- Washing machine. S. Patt. No. 1,415,691; May 9.
- Washing machine. J. S. Power. Nos. 1,436,679-80; Nov. 28.
- Washing machine. R. Rainalter. No. 1,430,322; Sept. 26.
- Washing machine. A. E. Roberts. No. 1,432,122; Oct. 17.
- Washing machine. J. H. Sauter. No. 1,427,552; Aug. 29.
- Washing machine. S. Y. Seeds. No. 1,433,483; Oct. 24.
- Washing machine. H. Sieben. No. 1,411,750; Apr. 4.
- Washing machine. A. Sorensen. No. 1,423,972; July 25.
- Washing machine. A. E. Statham. No. 1,428,919; Sept. 12.
- Washing machine. T. O. Theobald. No. 1,427,867; Sept. 5.
- Washing machine. R. D. Tittle. No. 1,419,427; June 13.
- Washing machine. W. H. Voss. No. 1,438,149; Dec. 5.
- Washing machine. H. W. White. No. 1,440,192; Dec. 26.
- Washing machine. J. J. Wood. No. 1,403,882; Jan. 17.
- Washing-machine agitator. A. L. Walling. No. 1,428,822; Sept. 12.
- Washing-machine applicator. H. Sieben. No. 1,412,714; Apr. 11.
- Washing machine, Clothes-. F. A. Adams. Nos. 1,406,136-7; Feb. 7.
- Washing machine, Clothes-. E. Heinrich. No. 1,408,596; Mar. 7.
- Washing machine, Clothes-. W. R. Walker. No. 1,402,196; Jan. 3.
- Washing machine, Clothes-. W. R. Walker. No. 1,437,163; Nov. 28.
- Washing-machine cover. E. E. Berthold. No. 1,433,515; Oct. 24.
- Washing machine, Cylinder. W. Bartholomew and G. Simons. No. 1,437,038; Nov. 28.
- Washing-machine cylinder. R. N. West. No. 1,433,319; Oct. 24.
- Washing-machine dashers or agitators, Combination soap holder and grater for. G. H. Hoelscher. No. 1,416,825; May 23.
- Washing machine, Domestic. G. Collinson. No. 1,408,864; Mar. 7.
- Washing-machine driving mechanism. F. W. Carpenter. No. 1,418,429; June 6.
- Washing-machine driving mechanism. W. F. Moran. No. 1,425,209; Aug. 8.
- Washing machine for washing fabrics. J. J. Harpel. No. 1,426,185; Aug. 15.
- Washing-machine mechanism. W. H. Voss. No. 1,413,695; Apr. 25.
- Washing-machine operating mechanism. J. Leader and B. E. Getz. No. 1,418,295; June 6.
- Washing-machine powder. C. F. Lockhart and E. H. Roby. No. 1,418,587; June 6.
- Washing-machine tub. H. W. Eden. No. 1,427,791; Sept. 5.
- Washing machines, Agitator for. S. Beck. No. 1,415,768; May 9.
- Washing machines, Clutch for. J. L. Coffield. No. 1,433,259; Oct. 24.
- Washing machines, Cylinder cover for. C. F. Anderson and L. W. Knapp. No. 1,409,911; Mar. 21.
- Washing machines, Driving mechanism for. W. C. Bauer. No. 1,405,657; Feb. 7.
- Washing machines, Driving mechanism for. W. Erni. No. 1,422,843; July 18.
- Washing machines, Driving mechanism for. C. C. Lamb. No. 1,423,531; July 25.
- Washing machines, Driving mechanism for. J. F. Lamb. No. 1,416,479; May 16.
- Washing machines, Driving mechanism for. L. W. Mammen. No. 1,414,430; May 2.
- Washing machines, Driving mechanism for. K. K. Schulz. No. 1,402,664; Jan. 3.
- Washing machines, Driving mechanism for power. H. H. Toll and F. C. Duff. No. 1,403,358; Jan. 10.
- Washing machines, Fastener for covers of. B. A. Stocking. No. 1,435,510; Nov. 14.
- Washing machines, Frame and casing for. J. S. Power. No. 1,426,318; Aug. 15.
- Washing machines, Gearing for. C. C. Lamb. No. 1,403,503; Jan. 17.
- Washing machines, Operating device for. F. P. Smith. No. 1,403,204; Jan. 10.
- Washing machines, Operating mechanism for. J. Nelson and G. Seeds. No. 1,417,099; May 23.
- Washing machines, Pivoted wringer structure for. R. J. Anderson. No. 1,417,656; May 30.
- Washing machines, Reversible drive for. H. W. Seeger. No. 1,404,166; Jan. 17.
- Washing machines, Reversing mechanism for. D. H. Benjamin. No. 1,403,285; Jan. 10.
- Washing machines, Safety attachment for. H. F. Kuhns. No. 1,430,237; Sept. 26.
- Washing machines, Wringer for. H. W. Eden. No. 1,408,869; Mar. 7.
- Washing machines, Wringer-supporting mechanism for. J. L. Coffield. No. 1,414,551; May 2.
- Washing or fixing tank. J. A. Ramsey and E. R. de Money. No. 1,439,328; Dec. 19.
- Washing, rinsing, and wringing machine. A. Graydon. No. 1,437,514; Dec. 5.
- Washing, rinsing, and wringing machine, Combined. A. H. Weihe. No. 1,424,605; Aug. 1.
- Washing, scrubbing, and drying machine. J. Lence. No. 1,430,090; Sept. 26.
- Waste metal articles, Machine for collecting. W. Nelesen. No. 1,416,860; May 23.
- Watch. H. N. Hill. No. 1,420,261; June 20.
- Watch. L. Oedell and A. Bell. No. 1,434,838; Nov. 7.
- Watch. E. Seignol. No. 1,413,941; Apr. 25.
- Watch and clock. J. Demko and P. Greschner. No. 1,424,195; Aug. 1.
- Watch and jewelry cleaner. B. McCarty. No. 1,426,400; Aug. 22.
- Watch-bracelet fastening, Ribbon. R. King. No. 1,440,298; Dec. 26.
- Watchcase. A. L. Haman. No. 1,427,808; Sept. 5.
- Watchcase. L. Lubin. No. 1,436,593; Nov. 21.
- Watchcase. L. A. Schmid. No. 1,404,656; Jan. 24.
- Watchcase screw. H. E. Wild. No. 1,436,743; Nov. 28.
- Watch casing. S. Bruner. No. 1,404,090; Jan. 17.
- Watch-chain fastener. J. Loman. No. 1,422,872; July 18.
- Watch-chain fastener. J. Loman. No. 1,424,139; July 25.
- Watch-chain swivels, Making. F. W. Nittel. No. 1,425,128; Aug. 8.
- Watch chains, etc., Swivel for. E. L. Robinson. No. 1,417,281; May 23.
- Watch-crystal gauge. M. Gordon. No. 1,404,601; Jan. 24.
- Watch crystals, Tool for grinding. W. M. Sandefur. No. 1,418,975; June 6.
- Watch, etc., J. Brun. No. 1,418,427; June 6.
- Watch fob. J. E. Church. No. 1,426,042; Aug. 15.
- Watch fob. T. F. Mullen. No. 1,417,852; May 30.
- Watch guards, Slide for ribbon. C. H. Sherman. No. 1,417,575; May 30.
- Watch holder. A. Milne. No. 1,430,021; Sept. 26.
- Watch holder. A. Milne. No. 1,438,964; Dec. 19.
- Watch, Ring. A. Maculskiys. No. 1,404,536; Jan. 24.
- Watch, Time-point-indicator. P. N. Jones and J. A. Emery. No. 1,412,658; Apr. 11.
- Watch, Waldemar breast. A. Horvath. No. 1,431,802; Oct. 10.

Alphabetical list of inventions—Continued.

- Watches and like articles, Dial and marking for. H. F. Cuntz. No. 1,414,628; May 2.
- Watches, etc., Hand and indicator for. H. F. Cuntz. No. 1,416,176; May 16.
- Watches, Hand and indicator for. H. F. Cuntz. No. 1,415,158; May 9.
- Watches, etc., Indicator and dial for. H. F. Cuntz. No. 1,413,971; Apr. 25.
- Watches, Hook for convertible. J. Daving. No. 1,426,554; Aug. 22.
- Watches, Second-hand-setting mechanism for. A. Burnstine. No. 1,421,668; July 4.
- Watches, Shipping package for. H. C. Karr. No. 1,423,329; July 18.
- Water alarm, Low-. C. A. Kothe. No. 1,422,870; July 18.
- Water alarm, Low-. H. B. Thurston. No. 1,414,161; Apr. 25.
- Water and other liquids, Electric heater for. G. E. Loubiere. No. 1,438,445; Dec. 12.
- Water and ozone, Pressure mixing device for raw. H. B. Hartman. No. 1,430,303; Sept. 26.
- Water and recovery of sludge, System for disposal of bilge. W. C. Robinson. No. 1,425,289; Aug. 3.
- Water arch. R. G. Seaman. No. 1,412,713; Apr. 11.
- Water-bearing strata water-tight, Making assured. A. Francois. No. 1,430,306; Sept. 26.
- Water boiler. H. O. Baker. No. 1,409,515; Mar. 14.
- Water bottle, Hot-. L. G. Hammond. No. 1,437,652; Dec. 5.
- Water bottles and apparatus therefor, Making. C. J. Randall and E. C. Pierce. No. 1,434,407; Nov. 7.
- Water-circulating system. R. Taylor. No. 1,412,981; Apr. 18.
- Water-circulating system, Hot-. H. Hackman. No. 1,404,365; Jan. 24.
- Water-closet. A. Ek. No. 1,402,850; Jan. 10.
- Water-closet. J. M. Teaben and W. Taylor. No. 1,419,328; June 13.
- Water-closet attachment. J. W. Ramsdell and F. C. Wiest. No. 1,430,586; Oct. 3.
- Water-closet bowls, Fixture for. L. W. Bollow. No. 1,426,950; Aug. 22.
- Water-closet connection. J. J. Cosgrove. No. 1,407,734; Feb. 28.
- Water-closet seat. C. J. Wilkin. No. 1,412,436; Apr. 11.
- Water-closet seats, Attachment for. W. S. Bangen. No. 1,435,685; Nov. 14.
- Water-closet tanks and lids and water-closet seats and covers, Composition of matter and making. C. J. Ruehrwein. No. 1,437,618; Dec. 5.
- Water-closets, etc., Adjustable drainage fitting for. J. A. Bennett. No. 1,410,526; Mar. 21.
- Water container and basin, Combined. C. A. C. Peschardt. No. 1,431,841; Oct. 10.
- Water-cooled machines, Accelerator for. S. E. Allen. No. 1,415,974; May 16.
- Water cooler. E. B. Cushman. No. 1,404,095; Jan. 17.
- Water cooler. G. F. Denne. No. 1,428,945; Sept. 12.
- Water cooler. T. C. Kennedy. No. 1,435,858; Nov. 14.
- Water cooler, Automatic dispensing. V. Glisci. No. 1,407,264; Feb. 21.
- Water-cooling system, Automatic. O. A. Labus. No. 1,423,337; July 18.
- Water-craft-driving mechanism. E. M. Schneidenbach. No. 1,420,579; June 20.
- Water cut-off, Rain-. C. G. Wrigley. No. 1,410,141; Mar. 21.
- Water, Device for measuring out. S. O. Johns. No. 1,407,752; Feb. 28.
- Water-distilling apparatus. C. E. Kells. Nos. 1,404,971-2; Jan. 31.
- Water distribution and delivery. E. E. Thomas. No. 1,434,757; Nov. 7.
- Water-elevating device. L. P. Smith. No. 1,412,424; Apr. 11.
- Water-elevating device. W. A. Stuart. No. 1,416,075; May 16.
- Water elevator. F. L. Orr and O. H. Jahnke. No. 1,413,930; Apr. 25.
- Water elevator, Compressed-air. J. A. Roumimper. No. 1,438,863; Dec. 12.
- Water elevator, Pneumatic. T. E. Smythe. No. 1,409,476; Mar. 14.
- Water, Feed mechanism for the chemical treatment of. W. J. Danabo. No. 1,418,289; June 6.
- Water filter. J. Auberscheck. No. 1,402,706; Jan. 3.
- Water filter. W. Eggle. No. 1,402,970; Jan. 3.
- Water for domestic and other purposes, Apparatus for collecting rain. K. Vongehr. No. 1,429,051; Sept. 12.
- Water for softening, sterilizing, and like purposes, Treatment of. H. J. Makrath. No. 1,423,132; July 18.
- Water gate. T. F. Ferguson. No. 1,416,628; May 16.
- Water gate. O. H. Talbott. Nos. 1,438,773-4; Dec. 12.
- Water gauge. C. H. Apps. No. 1,438,208; Dec. 12.
- Water gauge. F. L. Homan. No. 1,432,024; Oct. 17.
- Water gauge. E. Macneir. No. 1,408,818; Mar. 7.
- Water-gauge column. J. G. Blunt and H. Swoyer. No. 1,415,862; May 16.
- Water gauge, Radiator. M. Mhoon. No. 1,439,969; Dec. 26.
- Water heater. W. H. Aldridge. No. 1,418,421; June 6.
- Water heater. R. W. Averitt. No. 1,422,521; July 11.
- Water heater. C. D. Bedwin. No. 1,421,149; June 27.
- Water heater. W. Colebrook. No. 1,419,225; June 13.
- Water heater. G. L. Ebbenga. No. 1,422,941; July 18.
- Water heater. W. J. Edwards. No. 1,415,432; May 9.
- Water heater. A. Flick and O. Van Kirk. No. 1,402,925; Jan. 10.
- Water heater. H. Hargreaves. No. 1,415,343; May 9.
- Water heater. H. Hoffman and T. E. Kreutzer. No. 1,437,975; Dec. 5.
- Water heater. R. J. Hutchins. No. 1,421,692; July 4.
- Water heater. R. J. Hutchins and J. Kirby, Jr. No. 1,414,361; May 2.
- Water heater. W. Karlsson. No. 1,407,282; Feb. 21.
- Water heater. E. W. Kirmes. No. 1,404,973; Jan. 31.
- Water heater. R. G. Ledig. No. 1,433,388; Oct. 24.
- Water heater. W. G. Lewis. No. 1,418,812; June 6.
- Water heater. L. G. Lippman and F. E. Dixon. No. 1,405,789; Feb. 7.
- Water heater. N. Nilson. No. 1,430,466; Sept. 26.
- Water heater. C. A. Olson. No. 1,430,924; Oct. 3.
- Water heater. R. J. Pabodie. No. 1,430,679; Oct. 3.
- Water heater. A. F. Passmore and E. B. Fletcher. No. 1,408,634; Mar. 7.
- Water heater. T. D. Pilcher. Nos. 1,438,259-60; Dec. 12.
- Water heater. J. Richardson. No. 1,403,109; Jan. 10.
- Water heater. F. W. Schoettie. No. 1,403,645; Jan. 17.
- Water heater. W. A. Siebert. No. 1,439,490; Dec. 19.
- Water heater. V. H. Stott and L. Schofield. No. 1,415,728; May 9.
- Water heater. W. E. S. Strong. No. 1,410,848; Mar. 28.
- Water heater. C. F. Wilson. No. 1,411,466; Apr. 4.
- Water heater and steam generator, Electric. H. E. Cohen. No. 1,420,692; June 27.
- Water heater, Automatic. J. Beard. No. 1,420,513; June 20.
- Water heater, Automatic. G. S. Walker. No. 1,404,249; Jan. 24.
- Water heater, Electric. F. S. Arntfield. No. 1,414,494; May 2.
- Water heater, Electric. C. H. Carlson. No. 1,433,698; Oct. 31.
- Water heater, Electric. S. G. Crane. Nos. 1,437,383-4; Nov. 28.
- Water heater, Electric. A. Fisher. No. 1,428,157; Sept. 5.
- Water heater, Electric. R. J. Frost. No. 1,406,181; Feb. 14.
- Water heater, Electric. O. Graetzer and O. F. Bruman. No. 1,431,580; Oct. 10.
- Water heater, Electric. W. W. Graff. No. 1,417,315; May 23.
- Water heater, Electric. M. W. Hornsby. No. 1,429,735; Sept. 19.
- Water heater, Electric. F. W. Moffat. No. 1,406,994; Feb. 21.
- Water heater, Electric. F. C. Perkins. No. 1,403,102; Jan. 10.
- Water heater, Electric. G. Pominville. No. 1,439,577; Dec. 19.
- Water heater, Electric. F. E. Shepard and J. E. Phillips. No. 1,435,559; Nov. 14.
- Water heater, Electric. W. O. Snelling. No. 1,402,021; Jan. 3.
- Water heater, Electric. R. M. Stephens. No. 1,406,100; Feb. 7.
- Water heater, Electrical. M. D. Dominguez. No. 1,437,046; Nov. 28.
- Water heater, Electrical. T. L. Ralph. No. 1,417,409; May 23.
- Water heater, Feed-. A. B. Wallem. No. 1,438,200; Dec. 12.
- Water heater, Flexible. F. F. Forshee. No. 1,406,360; Feb. 14.
- Water heater, Gas. V. Mauck. No. 1,416,487; May 16.
- Water heater, Immersion. P. A. E. Armstrong. No. 1,437,481; Dec. 5.
- Water heater, Induction. A. J. Holmes. No. 1,425,968; Aug. 15.
- Water heater, Interposed. E. Davock. No. 1,407,989; Feb. 28.
- Water heater, Portable. G. W. Hewitt. No. 1,420,840; June 27.
- Water heater, Portable. L. Marx. No. 1,437,814; Dec. 5.
- Water-heater unit, Detachable circulating. F. Thornton, Jr., and F. F. Forshee. No. 1,438,621; Dec. 12.
- Water heaters, Heat retainer for. M. E. Dearing. No. 1,417,888; May 30.
- Water heaters, Relief device for hot-. H. U. Fuller. No. 1,438,105; Dec. 5.
- Water heaters, Thermostatic controller for gas. B. Ryan. No. 1,404,898; Jan. 31.
- Water heating and circulating system. P. J. Molloy. No. 1,411,291; Apr. 4.
- Water-heating apparatus. A. L. Howard. No. 1,432,335; Oct. 17.
- Water-heating apparatus. D. J. Meister. No. 1,404,134; Jan. 17.
- Water-heating attachment. C. E. Kantor and F. Schorik. No. 1,408,517; Mar. 7.
- Water-heating attachment. M. Starr. No. 1,406,771; Feb. 14.
- Water-heating device, Electrical. S. Gorlov. No. 1,436,089; Nov. 21.
- Water-heating drum. A. T. Fowles. No. 1,429,863; Sept. 19.

- Water-heating systems. Accelerating pump for. H. H. Angus. No. 1,430,141; Sept. 26.
- Water jacket. W. G. O'Malley. No. 1,411,178; Mar. 28.
- Water jet and suction apparatus and means for operating same. Combined. L. Larsen. No. 1,423,436; July 18.
- Water-level controller. G. W. Stetson. No. 1,418,845; June 6.
- Water-level gauge. J. W. Grantland. No. 1,428,162; Sept. 5.
- Water-level indicator. G. A. Bryan. No. 1,406,926; Feb. 14.
- Water-lifting apparatus. Automatically-operating hydro-pneumatic. R. B. McConney. No. 1,421,513; July 4.
- Water-logging of nonresinous woods, Preventing the. W. Taylor. No. 1,435,031; Nov. 7.
- Watermarking embossing machine. P. D. Parsons. No. 1,408,633; Mar. 7.
- Water meter. R. A. Anderson. No. 1,411,258; Apr. 4.
- Water meter. G. H. Garrett. No. 1,413,980; Apr. 25.
- Water meter. E. L. Jones. No. 1,412,408; Apr. 11.
- Water meter. R. J. Lyman. No. 1,425,876; Aug. 15.
- Water meter. J. C. Stevens. No. 1,418,032; May 30.
- Water, Method and means for current and channel control in moving bodies of. E. Bignell. No. 1,409,140; Mar. 7.
- Water mixer. T. W. Powers. No. 1,423,880; July 25.
- Water mixer, Hot and cold. A. Manelis. No. 1,408,375; Feb. 28.
- Water motor. R. Bohnenblust. No. 1,402,710; Jan. 3.
- Water motor. D. A. Carmichael. No. 1,429,842; Sept. 19.
- Water motor. T. and T. F. M. Crisp. No. 1,415,996; May 16.
- Water pipes, Drainage device for boiler-feed. W. M. Van Der Volgen. No. 1,438,973; Dec. 19.
- Water motor. F. W. Hess. No. 1,439,416; Dec. 19.
- Water motor. G. Jorgenson. No. 1,425,487; Aug. 8.
- Water motor. P. A. Melvin. No. 1,403,702; Jan. 17.
- Water motor. W. Peterson. No. 1,426,838; Aug. 22.
- Water motor. W. D. Root and C. E. Helmick. No. 1,434,264; Oct. 31.
- Water motor. W. Smith. No. 1,439,848; Dec. 26.
- Water-power apparatus. J. G. Hacking. No. 1,422,700; July 11.
- Water-power device. R. H. Gray. No. 1,436,342; Nov. 21.
- Water-power system. W. Moerscher. No. 1,434,138; Oct. 31.
- Waterproof board and making same. L. Kirschbraun. No. 1,417,836; May 30.
- Waterproof coating to paper and other fabrics, Machine for applying. C. C. Gamm. No. 1,410,465; Mar. 21.
- Waterproof composition, Making. L. Kirschbraun. No. 1,417,837; May 30.
- Waterproof covering for hats. A. Barnett and M. I. Steinberg. No. 1,418,354; June 6.
- Waterproof electric blasting cap. A. L. Oliver. No. 1,408,711; Mar. 7.
- Waterproof fabric and making same. E. H. Enos. No. 1,408,871; Mar. 7.
- Waterproof hat protector. B. Newman. No. 1,417,100; May 23.
- Waterproof product. L. Kirschbraun. No. 1,417,839; May 30.
- Waterproof stock feeder. J. Osnes, C. Halverson, and D. S. Foley. No. 1,419,468; June 13.
- Waterproofing. A. Mohn. (Reissue). No. 15,465; Oct. 10.
- Waterproofing adhesive, Supplying an article with. J. MacLaurin. No. 1,413,921; Apr. 25.
- Waterproofing and gasproofing composition. J. D. See. No. 1,431,845; Oct. 10.
- Waterproofing cloth. C. Biondo. No. 1,432,833; Oct. 24.
- Waterproofing composition. G. H. Havens. No. 1,418,374; June 6.
- Waterproofing composition. M. W. Hendrich. No. 1,437,893; Dec. 5.
- Waterproofing composition. J. R. Hyer. No. 1,405,220; Jan. 31.
- Waterproofing composition. G. W. Magnus. No. 1,416,852; May 23.
- Waterproofing composition. O. Ruff. No. 1,428,258; Sept. 5.
- Waterproofing device. G. A. Kampmann. No. 1,423,857; July 25.
- Waterproofing material. J. R. Roether. No. 1,414,670; May 2.
- Waterproofing tile. J. T. Pokorny. No. 1,432,120; Oct. 17.
- Waterproofing vulcanized fiber. J. McIntosh. No. 1,425,878; Aug. 15.
- Water-pumping system. J. I. Astrom. No. 1,412,596; Apr. 11.
- Water purification. J. T. Travers. No. 1,440,254; Dec. 26.
- Water, Purifying and decolorizing. M. F. Newman. No. 1,418,013; May 30.
- Water screen, Traveling. G. R. Roddy. No. 1,426,217; Aug. 15.
- Water silencer. H. L. Doulton and R. J. Pleace. No. 1,406,943; Feb. 14.
- Water softener. C. B. Haines. No. 1,423,657; July 25.
- Water softener. C. H. Nordell. No. 1,410,712; Mar. 28.
- Water, Softening. G. G. Hepburn. No. 1,426,638; Aug. 22.
- Water-softening apparatus. J. D. Yoder. No. 1,425,621; Aug. 15.
- Water sport device. J. M. Maroukis. No. 1,403,434; Jan. 10.
- Water-stage-recording instrument, Venturi-flume. R. L. Parshall. No. 1,417,941; May 30.
- Water supply plant, Automatic hard and soft. T. S. Harris. No. 1,433,007; Oct. 24.
- Water system, Air-lift. C. E. Anderson and F. P. Perkins. No. 1,436,425; Nov. 21.
- Water system, Automatically-operating control switch for a. O. J. W. Gaebel. No. 1,405,200; Jan. 31.
- Water systems, Device for feeding compounds in. P. Sevcik. No. 1,409,248; Mar. 14.
- Water tank. E. Wood. No. 1,422,325; July 11.
- Water-tight doors, Locking device for. J. L. Silverman and J. W. Shields. No. 1,416,308; May 16.
- Water to boilers, Apparatus for controlling the flow of. J. A. Doble. No. 1,423,759; July 25.
- Water-treating apparatus. C. H. Spangler. No. 1,427,650; Aug. 29.
- Water-treating process and apparatus. J. D. Yoder. No. 1,402,277; Jan. 3.
- Water-tube boiler. H. O. Baker. No. 1,425,162; Aug. 8.
- Water-tube boiler. A. Cotton. No. 1,429,716; Sept. 19.
- Water-tube boiler. A. Cotton. No. 1,437,495; Dec. 5.
- Water-tube boiler. K. Värsmann. No. 1,423,372; July 18.
- Water-tube steam producer. J. L. Tindall. No. 1,412,904; Apr. 18.
- Water vaporizer. S. Brown. No. 1,431,719; Oct. 10.
- Water-weighing machine. J. J. Pickering. No. 1,435,494; Nov. 14.
- Water wheel. W. M. White. No. 1,418,116; May 30.
- Water wheels, Power device for. C. A. Blume. No. 1,430,618; Oct. 3.
- Waterer, Plant. H. A. Cook. No. 1,424,157; Aug. 1.
- Waterer, Stock. A. C. Westby. No. 1,421,636; July 4.
- Watering appliance. R. B. Glidden. No. 1,429,584; Sept. 19.
- Watering can. J. W. Beasley, jr. No. 1,432,587; Oct. 17.
- Watering device. F. McArthur. No. 1,413,675; Apr. 25.
- Watering device for cattle. H. C. Rassmann. Nos. 1,402,653-4; Jan. 3.
- Watering device for cattle. H. C. Rassmann. No. 1,417,688; May 30.
- Watering device, Stock. F. H. Bogde. No. 1,416,936; May 23.
- Watering tank and heater. A. W. Cummings. No. 1,407,988; Feb. 28.
- Watering trough. F. Turk. No. 1,414,532; May 2.
- Watering trough for bees. H. S. Lubben. No. 1,406,568; Feb. 14.
- Watering trough, Hog. A. B. Shively. No. 1,435,987; Nov. 21.
- Waters, Decomposing soapy. C. Bouillon. No. 1,410,882; Mar. 28.
- Wattmeter, Maximum-demand. J. Harris. No. 1,432,856; Oct. 24.
- Wave and tidal motor. G. A. Bonelli. No. 1,405,746; Feb. 7.
- Wave-energy direction, Determination of. M. Mason. No. 1,422,876; July 18.
- Wave motor. O. Hultberg. No. 1,423,115; July 18.
- Wave motor. E. C. Kersey. No. 1,408,094; Feb. 28.
- Wave motor. L. Mitelman. No. 1,420,332; June 20.
- Wave motor. D. R. Olmsted. No. 1,407,885; Feb. 28.
- Wave motor. C. S. Talbert. No. 1,439,984; Dec. 26.
- Wave-power motor. E. D. Stodder. No. 1,439,849; Dec. 26.
- Wave selection, System and apparatus for automatic. J. H. Hammond, Jr. No. 1,420,257; June 20.
- Wave transmission, Means for and method of. J. Mills. No. 1,412,567; Apr. 11.
- Waves, Method and means for relaying modulated carrier. P. I. Wold. No. 1,424,866; Aug. 8.
- Waves, System of producing modulated. R. A. Heising. No. 1,436,252; Nov. 21.
- Wax, Chlorination of. Montan. A. Deschauer. No. 1,429,932; Sept. 26.
- Wax, Electric distributor for sealing. H. Sanglier. No. 1,428,062; Sept. 5.
- Wax-sweating apparatus. C. S. Dickens, T. E. Schley, and J. W. Newton. No. 1,429,721; Sept. 19.
- Wax-sweating apparatus. A. Housholder. No. 1,408,200; Feb. 28.
- Wax, Treating. T. G. Delbridge. No. 1,438,985; Dec. 19.
- Waxer and polisher. H. L. Braun. No. 1,427,574; Aug. 29.
- Waxer and polisher, Floor. A. S. Boyle. No. 1,406,721; Feb. 14.
- Weaner, Calif. H. J. L. Chimneck. No. 1,432,155; Oct. 17.
- Weaner, Calif. A. Erickson. No. 1,438,027; Dec. 5.
- Weaner, Calif. B. W. Myer and J. Brown. No. 1,428,794; Sept. 12.
- Wear plate. J. F. Waidelich and T. F. Whelan. No. 1,426,795; Aug. 22.
- Wearing apparel. L. N. Gross. No. 1,425,008; Aug. 8.
- Wearing apparel and the like, Fastening device for. S. E. Johnston. No. 1,425,485; Aug. 8.
- Weatherboard. C. G. Robinson. No. 1,431,126; Oct. 3.
- Weather-indicating device. E. F. Baum. No. 1,435,445; Nov. 14.
- Weatherproofing clay. W. H. Allen. No. 1,421,888; July 4.

Alphabetical list of inventions—Continued.

- Weather stop. A. I. Sutton and J. O. Criss. No. 1,434,928; Nov. 7.
- Weather stop, Automatically-operating. J. J. Hines and H. R. Way. No. 1,426,737; Aug. 22.
- Weather strip. G. A. Bosler. No. 1,409,332; Mar. 14.
- Weather strip. A. V. Culver and W. A. Waddell. No. 1,424,283; Aug. 1.
- Weather strip. J. C. Dunham. No. 1,416,698; May 23.
- Weather strip. J. Hartstra. No. 1,429,203; Sept. 12.
- Weather strip. A. C. Schnake. No. 1,403,918; Jan. 17.
- Weather strip, Automatic. H. L. Cusick. No. 1,434,530; Nov. 7.
- Weather strip, Floating. J. W. Hammes. No. 1,422,569; July 11.
- Weather-strip-forming machine. J. W. Vincent. No. 1,410,785; Mar. 28.
- Weaving, Apparatus for preventing the lateral contraction of a fabric during. F. Boyer. No. 1,433,256; Oct. 24.
- Weaving frame. M. O. Anthony. No. 1,427,769; Sept. 5.
- Weaving strip. A. C. Schnake. No. 1,403,918; Jan. 17.
- Weaving machine, Circular. C. J. Feuerstein. No. 1,416,344; May 16.
- Weaving machine, Rope-. F. McMillan. No. 1,436,812; Nov. 28.
- Weaving, Mechanical process of. E. Lambert and R. Pernin. No. 1,428,786; Sept. 12.
- Weaving process and loom therefor. S. B. Crespi. No. 1,418,239; May 30.
- Web, Device for making reinforcing. K. Nossagk. No. 1,440,027; Dec. 26.
- Web feeding and cutting device. I. Lazaga. No. 1,430,089; Sept. 26.
- Web-feeding mechanism. O. V. Dutro and A. S. Burroughs. No. 1,402,848; Jan. 10.
- Web materials, Spreading roller for. A. Livesey. No. 1,435,712; Nov. 14.
- Web-printing press. C. A. Kellogg. No. 1,411,789; Apr. 4.
- Web-renewing device. H. A. W. Wood. No. 1,402,989; Jan. 10.
- Web-roll stand. A. J. Cline. No. 1,434,943; Nov. 7.
- Webbing, Tip for. A. V. Brown. No. 1,420,812; June 27.
- Webs of fabric, Adherently uniting. F. J. Kaufmann and W. N. Marsden. No. 1,427,477; Aug. 29.
- Wedge, Absorption. E. H. Fisher. No. 1,419,725; June 13.
- Wedge, Cleaving. H. Boner. No. 1,407,719; Feb. 28.
- Wedge, Driving-box. J. Kindervater. No. 1,421,010; June 27.
- Wedge, Expansion. W. H. Derbyshire, jr. No. 1,440,281; Dec. 26.
- Wedge lifts, Forming stacks of. E. E. Winkley. No. 1,416,085; May 16.
- Wedge splitting and scarfing machine. L. G. Freeman. No. 1,436,953; Nov. 28.
- Weed and grass exterminating machine. J. P. Hird. No. 1,428,032; Sept. 5.
- Weed and insect burner. L. F. Souther. No. 1,415,491; May 9.
- Weed burner. I. S. Corson. No. 1,410,659; Mar. 28.
- Weed cutter. A. Olander. No. 1,404,313; Jan. 24.
- Weed cutter. G. Reinsmith. No. 1,438,857; Dec. 12.
- Weed destroyer. J. E. Stephens. No. 1,405,030; Jan. 31.
- Weed-destroying machine. E. Lambert. No. 1,435,483; Nov. 14.
- Weed exterminator. C. A. Batterson. No. 1,407,689; Feb. 28.
- Weed puller. J. F. Stevens. No. 1,407,232; Feb. 21.
- Weed puller. L. Vestal. No. 1,411,316; Apr. 4.
- Weed puller, Garden. O. L. Rude. No. 1,403,110; Jan. 10.
- Weeder. C. W. Leffer. No. 1,433,212; Oct. 24.
- Weeder and cultivator. J. Walsh. No. 1,413,509; Apr. 18.
- Weeder and pulverizer. H. Hanson. No. 1,420,698; June 27.
- Weeding implement. J. L. Florin. No. 1,416,631; May 16.
- Weeding machine for rice fields. A. Cabrini. No. 1,412,164; Apr. 11.
- Weft supply and placing mechanism. C. Lea. No. 1,422,722; July 11.
- Weighing and packaging machine. G. L. Langer. No. 1,413,857; Apr. 25.
- Weighing apparatus. R. F. Hall. No. 1,414,083; Apr. 25.
- Weighing apparatus. J. Kralund. No. 1,416,477; May 16.
- Weighing apparatus. L. A. Osgood. No. 1,402,087; Jan. 3.
- Weighing instrument. H. Moakley. No. 1,435,250; Nov. 14.
- Weighing machine. A. Larsen. No. 1,412,184; Apr. 11.
- Weighing machine. C. K. Milne. No. 1,403,704; Jan. 17.
- Weighing machine. A. Reynolds. No. 1,410,957; Mar. 28.
- Weighing machine, Automatic. H. V. Adam. No. 1,416,312; May 16.
- Weighing machine, Automatic. E. Gase. No. 1,419,557; June 13.
- Weighing machine, Automatic. G. Hoepner. No. 1,402,934; Jan. 10.
- Weighing machine, Automatic. J. G. Pieser and A. L. and J. C. Quast. No. 1,428,253; Sept. 5.
- Weighing machine, Automatic. A. Y. Seely. No. 1,432,128; Oct. 17.
- Weighing machine provided with a printing apparatus. H. Schröder. No. 1,425,421; Aug. 8.
- Weighing machine, Traveling. E. Gase. No. 1,414,694; May 2.
- Weighing machines, Buffer for automatic. B. Boulogne. No. 1,437,128; Nov. 28.
- Weighing machines, Weighing beam for automatic. B. Boulogne. No. 1,435,693; Nov. 14.
- Weighing machines, Weighing tank for automatic. B. Boulogne. No. 1,426,709; Aug. 22.
- Weighing mechanism. H. B. Bartlett. No. 1,415,915; May 16.
- Weighing mechanism. G. W. Gwinn. No. 1,425,251; Aug. 8.
- Weighing mechanism. S. W. Shuford. No. 1,422,141; July 11.
- Weighing mechanism, Automatic. E. B. Elder. No. 1,421,926; July 4.
- Weighing mechanism, Fluid-pressure. A. S. Samuels. No. 1,402,661; Jan. 3.
- Weighing scales, V bearing for. B. W. King. No. 1,426,393; Aug. 22.
- Weight-indicating mechanism. H. A. Myers. No. 1,433,738; Oct. 31.
- Weight indicator. L. Jaenichen. No. 1,409,181; Mar. 14.
- Weight indicator, Net-. E. A. Macholl. No. 1,436,319; Nov. 21.
- Weight-motor device. S. Picciotto. No. 1,426,598; Aug. 22.
- Weir or module, Constant-flow. J. J. Gilgan. No. 1,410,746; Mar. 28.
- Welded joint. C. F. Gailor. No. 1,418,071; May 30.
- Welded joint and method and means for making same. J. F. Gail. No. 1,411,340; Apr. 4.
- Welded structure and forming same. R. V. Bingay. No. 1,420,016; June 20.
- Welder, Autogenous. J. L. Anderson. No. 1,438,285; Dec. 12.
- Welding. J. L. Anderson. Nos. 1,402,996-7; Jan. 10.
- Welding. L. G. McClintock. No. 1,425,529; Aug. 15.
- Welding and apparatus therefor. R. Mattice. No. 1,437,257; Nov. 28.
- Welding and the like, Electric. L. H. Hoffer. No. 1,436,395; Nov. 21.
- Welding apparatus. W. McKee. No. 1,420,720; June 27.
- Welding apparatus. W. P. Shipman. No. 1,403,648; Jan. 17.
- Welding apparatus. W. P. Shipman. No. 1,412,066; Apr. 11.
- Welding apparatus. F. L. Slife. No. 1,414,530; May 2.
- Welding apparatus, Electric. F. S. Stearns. No. 1,435,751; Nov. 14.
- Welding apparatus, Electric. P. J. Walsh. No. 1,413,304; Apr. 18.
- Welding apparatus, Electrical. A. Churchward. No. 1,435,914; Nov. 21.
- Welding, Apparatus for electric. R. Stresau. No. 1,407,900; Feb. 28.
- Welding device, Electric. L. S. Lachman. No. 1,416,360; May 16.
- Welding, Electric. F. S. Caldwell and A. M. Bennett. No. 1,428,529; Sept. 12.
- Welding, Electric. J. B. Murray and T. E. Murray, jr. No. 1,438,645; Dec. 12.
- Welding, Electric. T. E. Murray, jr. (Reissue.) No. 15,466; Oct. 10.
- Welding, Electric. G. H. Sethman. No. 1,433,853; Oct. 31.
- Welding, Electric. L. J. Steele, H. Martin, and A. E. McCarthy. No. 1,410,421; Mar. 21.
- Welding, Electric arc. P. O. Noble. No. 1,439,972; Dec. 26.
- Welding, Electric resistance. A. C. Taylor. Nos. 1,435,995-6; Nov. 21.
- Welding, Electrical arc. J. Churchward. No. 1,423,914; July 25.
- Welding generator, Portable oxyacetylene. A. F. Jenkins. No. 1,410,316; Mar. 21.
- Welding hood. J. M. Lightfield. No. 1,416,848; May 23.
- Welding in series, Electrically. A. C. Taylor. No. 1,435,994; Nov. 21.
- Welding joints, Apparatus for. M. H. Sussman. No. 1,436,062; Nov. 21.
- Welding machine. T. E. Murray, Jr., and J. B. Murray. No. 1,420,735; June 27.
- Welding machine attachments, Clamp for. H. W. Kranz and J. Lukes. No. 1,416,839; May 23.
- Welding machine, Duplex electric-. J. Ledwinka. No. 1,436,716; Nov. 28.
- Welding machine, Electric. F. G. Gale. No. 1,434,285; Oct. 31.
- Welding machine, Electric seam-. E. Schröder. No. 1,427,231; Aug. 29.
- Welding machine, Electric seam-. E. Schröder. No. 1,438,867; Dec. 12.
- Welding machine, Electric spot-. F. M. and W. L. B. Cushing. No. 1,435,812; Nov. 14.
- Welding machine, Pipe-. J. Harris. No. 1,434,207; Oct. 31.
- Welding machine, Pipe-. L. C. Schneider. No. 1,439,531; Dec. 19.
- Welding machine, Tube-. R. O. and S. Berg. No. 1,418,058; May 30.
- Welding machine, Tube-. F. G. Gale. No. 1,434,884; Nov. 7.
- Welding machine, Tube-. F. G. Gale and P. W. Shaw. No. 1,434,885; Nov. 7.
- Welding machine, Tube-. E. Kamper. No. 1,421,786; July 4.

- Welding machine, Tube. P. W. Shaw and F. G. Gale. No. 1,434,918; Nov. 7.
- Welding machine, Tube. F. S. Stearns and C. W. Greene. No. 1,434,925; Nov. 7.
- Welding machines operating with continuous current, Working electric resistance. E. Schröder. No. 1,428,262; Sept. 5.
- Welding mechanism, Electric resistance. M. De Lemon and A. Malec. No. 1,434,374; Nov. 7.
- Welding metals. A. F. Jenkins. No. 1,412,656; Apr. 11.
- Welding, Method of and apparatus for percussive. L. W. Chubb. No. 1,403,292; Jan. 10.
- Welding, Spot. J. C. Sander. No. 1,416,883; May 23.
- Welding system, Arc-. C. J. Holslag. No. 1,408,805; Mar. 7.
- Welding table. J. Murchie. No. 1,402,881; Jan. 10.
- Welding tablet or capsule. J. H. Gravell. No. 1,434,538; Nov. 7.
- Welding tool. R. Mattice. No. 1,419,744; June 13.
- Welding torch. R. B. Oman. No. 1,419,168; June 13.
- Welding wires, Side-. L. S. Lachman. No. 1,416,359; May 16.
- Well. D. H. Maury. No. 1,425,888; Aug. 15.
- Well apparatus, Tubing drainer for. W. H. McKissick. No. 1,404,874; Jan. 31.
- Well bailer. W. W. Gruber. No. 1,431,896; Oct. 10.
- Well-boring device. L. W. Norris. No. 1,427,410; Aug. 29.
- Well-boring tool, Electric. R. M. McFadden. No. 1,419,068; June 6.
- Well-capping device. G. W. Brown. No. 1,409,660; Mar. 14.
- Well-capping device. E. H. Duckett. No. 1,404,350; Jan. 24.
- Well-casing-capping device. J. W. Loy. No. 1,428,791; Sept. 12.
- Well-casing cementing shoe, Oil-. E. V. Crowell. No. 1,432,017; Oct. 17.
- Well-casing head. O. C. Zuck and L. O. Bacon. No. 1,414,320; Apr. 25.
- Well-casing ripper. J. E. Keller. No. 1,417,331; May 23.
- Well-casing spear. R. A. Wilson. No. 1,418,766; June 6.
- Well-casing swage. H. R. Rush. No. 1,403,570; Jan. 17.
- Well casings, Apparatus for separating cemented. R. W. Edens and S. E. Cléver. No. 1,427,524; Aug. 29.
- Well casings, Foot valve for. P. B. Turpin, Jr. No. 1,403,359; Jan. 10.
- Well casings, Parting tool for. H. C. Denning. No. 1,413,522; Apr. 18.
- Well cleaner, Oil-. J. H. Thacher. No. 1,433,046; Oct. 24.
- Well-cleaning device. W. F. Muehl. No. 1,402,786; Jan. 10.
- Well-cleaning device. F. J. Rogers. No. 1,423,625; July 25.
- Well-cleaning device, Oil-. C. E. Wessels. No. 1,432,649; Oct. 17.
- Well-digging machine. W. V. Seifert. No. 1,414,590; May 2.
- Well drill. I. J. McCullough. No. 1,424,662; Aug. 1.
- Well drill bit, Oil-. M. E. Thomas. No. 1,438,876; Dec. 12.
- Well-drill jack. L. P. Hansen. No. 1,407,654; Feb. 21.
- Well drill jar. T. W. Bell. No. 1,439,287; Dec. 19.
- Well-drilling apparatus. R. L. Burns. No. 1,407,924; Feb. 28.
- Well-drilling apparatus. S. J. Mathews. No. 1,436,890; Nov. 28.
- Well-drilling bit. F. Gierse. No. 1,430,072; Sept. 26.
- Well-drilling bit. P. W. Smith. No. 1,428,122; Sept. 5.
- Well-drilling bit, Adjustable. P. Caveney. No. 1,407,927; Feb. 28.
- Well-drilling devices, Blade for. P. W. Smith and J. J. Bookhout. No. 1,426,681; Aug. 22.
- Well-drilling drive, Oil-. V. York. (Reissue.) No. 1,533,0; Apr. 4.
- Well-drilling machine, Electromagnetic. F. R. Stoll. No. 1,430,473; Sept. 26.
- Well-drilling machinery. E. B. Verneuil. No. 1,412,430; Apr. 11.
- Well-drilling rigs, Compound walking beam for. R. W. Jamison. No. 1,417,604; May 30.
- Well-drilling rotaries, Post for. J. O. Bennett. No. 1,418,056; May 30.
- Well-drilling tool. C. L. Bradford. No. 1,439,224; Dec. 19.
- Well-drilling tool. C. E. Reed and S. Sorensen. No. 1,405,160; Jan. 31.
- Well-enlarging and cistern-making machine, Deep-. C. S. Corrigan. No. 1,406,349; Feb. 14.
- Well-enlarging and cistern-making machines, Control bracket gear for deep-. C. S. Corrigan. No. 1,406,351; Feb. 14.
- Well fishing tool, Deep-. J. A. Wolfe. No. 1,429,263; Sept. 19.
- Well installations, Valve structure for. W. L. Gross. No. 1,413,909; Apr. 25.
- Well machines, Holding device for deep-. C. S. Corrigan. No. 1,406,350; Feb. 14.
- Well-measuring device. R. C. Mason. No. 1,408,113; Feb. 28.
- Well mechanism. S. N. Hall. No. 1,415,551; May 9.
- Well mechanism. M. E. Layne and S. N. Hall. Nos. 1,415,585-7; May 9.
- Well mechanism. J. A. Wintroath. No. 1,435,362; Nov. 14.
- Well packer, Oil-. L. B. Robinson. No. 1,431,426; Oct. 10.
- Well reamer, Deep-. C. S. Corrigan. No. 1,406,348; Feb. 14.
- Well-reaming apparatus. W. E. Krause. No. 1,402,503; Jan. 3.
- Well-rod socket. J. A. Day. No. 1,416,620; May 16.
- Well screen. W. H. Cater. No. 1,431,872; Oct. 10.
- Well-tool grab. A. H. Kruger. No. 1,428,784; Sept. 12.
- Well-tubing catcher. R. A. Wilson. No. 1,411,599; Apr. 4.
- Well-washing device. F. E. Crotto. No. 1,427,944; Sept. 5.
- Wells and apparatus therefor, Method of treating oil. R. Conrader. No. 1,431,779; Oct. 10.
- Wells, Apparatus for hoisting oil, brine, or other liquids from. M. Loewenthal and F. Egersdörfer. No. 1,403,699; Jan. 17.
- Wells, Apparatus for pumping oil. D. Burks. H. A. Bardeen, and F. W. Harris. No. 1,433,871; Oct. 31.
- Wells, Automatic gas separator for oil. B. E. Clark. No. 1,437,721; Dec. 5.
- Wells, Casing clamp for oil. T. E. Robinson. No. 1,402,092; Jan. 3.
- Wells, Casing puller for oil. C. S. Leon and J. G. Chupas. No. 1,435,486; Nov. 14.
- Wells, Cleaning and treating oil and gas. R. E. Lee. No. 1,439,560; Dec. 19.
- Wells, Cushioning flow fitting for oil. M. J. Trumble. No. 1,436,417; Nov. 21.
- Wells, Derrick structure for oil, gas, and artesian. G. Battelle, H. M. Runkle and W. R. Tobin. No. 1,439,786; Dec. 26.
- Wells, Device and process for automatically preventing the accumulation of water in gas. F. B. Alldredge. No. 1,439,391; Dec. 19.
- Wells, Device for washing oil. E. D. and R. T. Smith. No. 1,436,058; Nov. 21.
- Wells, Device for withdrawing samples from. W. C. Keith. No. 1,431,528; Oct. 10.
- Wells, Excluding water from oil and gas. R. V. Mills. No. 1,421,706; July 4.
- Wells, Flowing device for. L. Friedman and D. Wallace. No. 1,414,402; May 2.
- Wells, Gas-energy control for flowing oil or gas. E. V. Crowell. No. 1,432,674; Oct. 17.
- Wells, Liquid meter for use with oil. G. C. Davison. No. 1,432,593; Oct. 17.
- Wells, Means for boring. M. T. Chapman. No. 1,420,365; June 20.
- Wells, Method and apparatus for removing water from. G. A. Kobel. No. 1,409,346; Mar. 14.
- Wells, Method of and apparatus for operating oil. R. Conrader. Nos. 1,431,777-8; Oct. 10.
- Wells, Oil sayer for oil-producing. J. L. Beard. No. 1,418,612; June 6.
- Wells, Process and apparatus for removing sand from. E. B. Symous. No. 1,432,425; Oct. 17.
- Wells, Pumping head for. R. J. Cole. No. 1,435,892; Nov. 14.
- Wells, Rod and pipe grab for. F. A. and A. L. Loman and H. C. Dean. No. 1,421,266; June 27.
- Wells, Sand trap for. L. L. Kelsey. No. 1,431,006; Oct. 3.
- Wells, Sand trap for oil. J. A. Westmoreland. No. 1,439,280; Dec. 19.
- Wells, Sealing device for. E. N. Miller. No. 1,417,057; Mar. 28.
- Wells, Sealing driven. A. B. Ellis. No. 1,404,353; Jan. 24.
- Wells, Separator for. O. A. Layne. No. 1,403,174; Jan. 10.
- Wells, Working barrel for. A. W. McCallister. No. 1,432,768; Oct. 24.
- Weld-butting machine. A. Eppler. No. 1,411,481; Apr. 4.
- Weld grooving and beveling machine. T. H. Seely and R. C. Simmons. No. 1,416,757; May 23.
- Weld guide. C. C. Blake. No. 1,403,227; Jan. 10.
- Weld-moistening machine. P. E. Barbour and H. Lyon.
- Weld refinisher. P. A. Ward. No. 1,439,587; Dec. 19.
- Welding. C. C. Blake. No. 1,408,797; Mar. 7.
- Welding, Process and machine for making. C. S. Norden. No. 1,407,294; Feb. 21.
- Wheat and other cereals and their products, Apparatus for separating and purifying. J. Higginbottom. No. 1,404,716; Jan. 24.
- Wheaten, Blending. C. G. Harrel. No. 1,429,504; Sept. 19.
- Wheel: See—
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| Adjustable car wheel. | Detachable wheel. |
| Adjustable steering wheel. | Detachable driving wheel. |
| Advertising wheel. | Detachable wire-spoked wheel. |
| Apron wheel. | Disk wheel. |
| Automobile wheel. | Disk automobile wheel. |
| Automobile spring wheel. | Elastic wheel. |
| Automobile truck wheel. | Fan wheel. |
| Ball-bearing disk wheel. | Fly wheel. |
| Brake-drum wheel. | Foldable steering wheel. |
| Breast wheel. | Free wheel. |
| Buffing wheel. | Gear wheel. |
| Car wheel. | Grinding wheel. |
| Cast metal wheel. | Hand wheel. |
| Caster wheel. | Laminated composite wheel. |
| Chain wheel. | Metal wheel. |
| Current wheel. | Metal disk wheel. |
| Cushion wheel. | Motor wheel. |
| Cushioned wheel. | Motor-car steering wheel. |
| Demountable wheel. | Demountable tubular-spoked wheel. |
| Demountable disk wheel. | |

Alphabetical list of inventions—Continued.

- Wheel: See—
 Pipe-spoked wheel.
 Plywood disk wheel.
 Pneumatic wheel.
 Polishing wheel.
 Power wheel.
 Pressed-metal wheel.
 Presser wheel.
 Reinforced disk wheel.
 Resilient wheel.
 Resilient vehicle wheel.
 Self-dumping paddle wheel.
 Sheave wheel.
 Sheet-metal wheel.
 Sheet-steel wheel.
 Spirit wheel.
 Spring wheel.
 Sprocket wheel.
 Stamped metal wheel.
 Steel cushion wheel.
 Steel-rim wheel.
 Steering wheel.
 Stone-polishing wheel.
 Tensioned metal wheel.
 Toy amusement wheel.
 Traction wheel.
 Tractor wheel.
 Trolley wheel.
 Truck wheel.
 Tubular-spoked wheel.
 Vehicle wheel.
 Vehicle disk wheel.
 Vehicle spring wheel.
 Water wheel.
 Wind wheel.
 Wind and water power wheel.
 Wire wheel.
 Wire-spoke wheel.
 Wood wheel.
- Wheel. R. J. Altgelt. No. 1,410,540; Mar. 28.
 Wheel. S. P. Barber. No. 1,425,824; Aug. 15.
 Wheel. G. G. Barry. No. 1,422,167; July 11.
 Wheel. E. R. Beeman. No. 1,425,073; Aug. 8.
 Wheel. W. S. Brickell. No. 1,426,254; Aug. 15.
 Wheel. W. P. Dalrymple. No. 1,418,069; May 30.
 Wheel. H. C. Gibson. No. 1,413,981; Apr. 25.
 Wheel. H. C. Gibson. No. 1,435,000; Nov. 7.
 Wheel. C. Guernsey. No. 1,424,818; Aug. 8.
 Wheel. J. A. Hawthorne, sr. No. 1,431,795; Oct. 10.
 Wheel. O. H. Jobski. No. 1,402,511; Jan. 3.
 Wheel. D. Kapuczin. No. 1,413,030; Apr. 18.
 Wheel. W. F. Kasper. No. 1,434,955; Nov. 7.
 Wheel. W. C. Lacy. No. 1,412,359; Apr. 11.
 Wheel. J. Ledwinka. No. 1,427,748; Aug. 29.
 Wheel. R. H. Martin. No. 1,419,162; June 13.
 Wheel. J. V. Martin. No. 1,432,771; Oct. 24.
 Wheel. F. B. Miller. No. 1,422,597; July 11.
 Wheel. F. L. Minnick. No. 1,431,320; Oct. 10.
 Wheel. O. W. Mott. No. 1,403,439; Jan. 10.
 Wheel. W. F. Muehl. No. 1,427,492; Aug. 29.
 Wheel. H. Nichols. No. 1,404,047; Jan. 17.
 Wheel. L. H. Perlman. Nos. 1,434,222-3; Oct. 31.
 Wheel. S. H. Phelps. No. 1,425,129; Aug. 8.
 Wheel. W. E. Philips. No. 1,427,320; Aug. 29.
 Wheel. S. I. Prescott and F. J. Rummel. No. 1,437,994; Dec. 5.
 Wheel. A. G. Raja. No. 1,405,329; Jan. 31.
 Wheel. J. L. Record and H. J. Campbell. No. 1,432,493; Oct. 17.
 Wheel. G. Rischmuller. No. 1,432,088; Oct. 17.
 Wheel. S. E. Robertson. No. 1,419,762; June 13.
 Wheel. H. W. Sanford. No. 1,420,221; June 20.
 Wheel. C. Schenck and L. Fine. No. 1,418,331; June 6.
 Wheel. F. S. Stafford. No. 1,423,694; July 25.
 Wheel. C. B. Van Horn. No. 1,433,435; Oct. 24.
 Wheel. C. E. Wiggins. No. 1,403,824; Jan. 17.
 Wheel and axle. H. W. Sanford. No. 1,430,593; Oct. 3.
 Wheel and axle construction. G. W. Carlson. No. 1,417,972; May 30.
 Wheel and demountable rim. J. G. Swain. No. 1,439,037; Dec. 19.
 Wheel and demountable rims therefor. J. H. Wagenhorst. No. 1,435,269; Nov. 14.
 Wheel and driving mechanism, Oscillating. E. J. Gould. No. 1,426,860; Aug. 22.
 Wheel and gear puller. H. G. Derry. No. 1,431,378; Oct. 10.
 Wheel and hub construction, Demountable. B. A. Bryon. No. 1,438,895; Dec. 12.
 Wheel and making same. J. F. Dodge. No. 1,423,556; July 25.
 Wheel and making same. W. R. Gilmore. No. 1,428,954; Sept. 12.
 Wheel and making same. W. H. Schirmer. No. 1,435,745; Nov. 14.
 Wheel and producing same, Pressed-steel. J. F. Surridge. No. 1,416,524; May 16.
 Wheel and resilient tire therefor, Vehicle. F. De Borggrave. No. 1,424,086; July 25.
 Wheel and scraper for same, Vehicle. H. M. Ferry. No. 1,430,968; Oct. 3.
 Wheel and tire, Combined. J. S. Webster and H. Hunt. No. 1,418,854; June 6.
 Wheel and tire holder, Steel. E. A. Banschbach. No. 1,412,034; Apr. 11.
 Wheel and wheel fittings. E. B. Killen. Nos. 1,435,529-30; Nov. 14.
 Wheel antislipping attachment. W. A. Biggs. No. 1,418,060; May 30.
 Wheel-attaching device. F. P. Flinn. No. 1,432,239; Oct. 17.
 Wheel attachment. E. G. Killerbrue. No. 1,438,117; Dec. 5.
 Wheel attachment. C. Powell. No. 1,404,644; Jan. 24.
 Wheelbarrow. W. F. Berry. No. 1,407,690; Feb. 28.
 Wheelbarrow. J. Charriot. No. 1,427,262; Aug. 29.
 Wheelbarrow. L. Landkamer. No. 1,436,965; Nov. 28.
 Wheelbarrow. W. E. Showalter. No. 1,422,893; July 18.
 Wheelbarrow. M. A. Zinniel. No. 1,411,322; Apr. 4.
 Wheelbarrow, Foldable. C. Vangiesen. No. 1,418,754; June 6.
 Wheelbarrow handle. H. M. Caswell. No. 1,427,720; Aug. 29.
 Wheelbarrow or other dumping vehicles. H. D. Cameron. No. 1,402,050; Jan. 3.
 Wheelbarrows, Removable side attachment for. J. Bergseng. No. 1,436,567; Nov. 21.
 Wheel block. W. W. Blakely. No. 1,429,921; Sept. 26.
 Wheel block. J. C. Miller. No. 1,427,222; Aug. 29.
 Wheel-bracing attachment. F. A. Preuss. No. 1,413,491; Apr. 18.
 Wheel carrier. E. H. Belden. No. 1,404,002; Jan. 17.
 Wheel carrier. E. R. Draver. No. 1,418,134; May 30.
 Wheel clamp. B. D. Mitsareff. No. 1,430,177; Sept. 26.
 Wheel clutch. W. C. Morton. No. 1,438,457; Dec. 12.
 Wheel construction. H. W. Angsten. No. 1,433,522; Oct. 31.
 Wheel construction. B. R., C., and R. S. Bolenbaugh, and L. W. Long. No. 1,406,920; Feb. 14.
 Wheel construction. B. R., C., and R. S. Bolenbaugh, and L. W. Long. No. 1,408,253; Feb. 28.
 Wheel construction. B. R., C., and R. S. Bolenbaugh and L. W. Long. No. 1,428,468; Sept. 5.
 Wheel construction, Cushion-. W. C. Martin. No. 1,412,534; Apr. 11.
 Wheel construction, Cushion-. J. J. Morand. No. 1,416,373; May 16.
 Wheel construction, Cushion-. J. J. Morand. No. 1,438,658; Dec. 12.
 Wheel construction, Disk-. F. G. Reid and W. B. Allison. No. 1,412,218; Apr. 11.
 Wheel construction, Fifth-. C. H. Martin and H. G. Farr. No. 1,412,025; Apr. 4.
 Wheel cover, Buffer. J. Stangl. No. 1,435,026; Nov. 7.
 Wheel, Demountable. A. L. Putnam. No. 1,414,374; May 2.
 Wheel device, Free-. A. Dughera. No. 1,429,196; Sept. 12.
 Wheel disks, Making. E. G. Budd. No. 1,421,667; July 4.
 Wheel dresser. C. Birgbauer. No. 1,427,573; Aug. 29.
 Wheel-dressing mechanism. B. M. W. Hanson. No. 1,416,667; May 16.
 Wheel-dressing mechanism. A. E. Larsson. No. 1,424,765; Aug. 8.
 Wheel drive. T. Ditmars. No. 1,402,580; Jan. 3.
 Wheel-drive differential, Positive both-. A. B. Sowden. No. 1,422,144; July 11.
 Wheel equipment and constructing same. J. S. Williams. No. 1,417,008; May 23.
 Wheel extractor. E. Sonnenburg. No. 1,434,852; Nov. 7.
 Wheel felly rim, Split spring-. A. F. Kelly. No. 1,412,352; Apr. 11.
 Wheel for motor and other vehicles, Automatically-operating pneumatic. H. C. Baque. No. 1,418,515; June 6.
 Wheel for motor road vehicles. J. D. Siddeley. No. 1,439,269; Dec. 19.
 Wheel for motor trucks, Semiwood. E. K. Baker. No. 1,435,370; Nov. 14.
 Wheel for motor trucks, Trailer. A. Mills. No. 1,434,137; Oct. 31.
 Wheel for power-propelled vehicles. J. R. McFall. No. 1,424,367; Aug. 1.
 Wheel for watering or other purposes, Hydraulic reaction. E. Rolland. No. 1,435,140; Nov. 7.
 Wheel guard. P. H. Carmack. No. 1,411,840; Apr. 4.
 Wheel guard for vehicles. B. Howard. No. 1,412,524; Apr. 11.
 Wheel holder. H. I. Matson. No. 1,407,332; Feb. 21.
 Wheel-holding device. R. B. Stipes, J. D. Goodwin, and H. C. Welch. No. 1,411,531; Apr. 4.
 Wheel hub. J. Drumb. No. 1,405,105; Jan. 31.
 Wheel hubs, Emergency attachment for. J. R. Huether. No. 1,410,570; Mar. 28.
 Wheel lift, Rear furrow-. W. S. Graham. No. 1,435,291; Nov. 14.
 Wheel lock for quick-detachable wheels. G. E. Molyneux. No. 1,417,276; May 23.
 Wheel lock, Spare-. W. H. Oakes. No. 1,430,837; Oct. 3.
 Wheel-locking device. H. A. Baker. No. 1,426,534; Aug. 22.
 Wheel lug, Traction-. S. G. Soley. No. 1,437,118; Nov. 28.
 Wheel mounting. J. E. Dekker. No. 1,402,149; Jan. 3.
 Wheel mounting. L. B. Neighbour. No. 1,416,740; May 23.
 Wheel mounting. E. J. Smith. No. 1,418,404; June 6.
 Wheel mounting for light motor vehicles. L. E. Shaw. No. 1,426,417; Aug. 22.
 Wheel or roller, Sheet-metal. F. S. Morton. No. 1,429,158; Sept. 12.
 Wheel puller. U. E. G. Johnson. No. 1,412,058; Apr. 11.
 Wheel puller. A. B. Jones. No. 1,415,451; May 9.
 Wheel puller. M. M. Sauers. No. 1,416,578; May 16.
 Wheel puller. H. D. Skiles. No. 1,427,976; Sept. 5.
 Wheel rack and lift. G. G. C. Flintermann. No. 1,406,632; Feb. 14.
 Wheel, Resilient. A. F. Batchelder. No. 1,423,299; July 18.
 Wheel retainer. C. A. Lindberg. No. 1,431,242; Oct. 10.
 Wheel rim. L. Febre. No. 1,431,457; Oct. 10.

- Wheel rim. J. M. Meredith, Jr. No. 1,415,670; May 9.
- Wheel rim. J. S. Nichols, S. T. Billingsly, and H. E. Scoggins. No. 1,419,889; June 13.
- Wheel rim, Cushioned. J. H. Clark. No. 1,436,793; Nov. 28.
- Wheel rim, Demountable. K. I. Nutter. No. 1,421,096; June 27.
- Wheel rim, Demountable vehicle. R. S. Bryant. (Re issue.) No. 15,468; Oct. 17.
- Wheel rim, Demountable vehicle. H. E. Butcher. No. 1,422,661; July 11.
- Wheel rim, Disk-. T. I. Duffy. No. 1,417,506; May 30.
- Wheel-rim jack. W. Krug. No. 1,411,667; Apr. 4.
- Wheel-rim mechanism, Demountable-. A. Persson. No. 1,430,253; Sept. 26.
- Wheel-rim retaining and demounting device. M. Kohl. No. 1,404,975; Jan. 31.
- Wheel rim, Sectional vehicle. R. Stock. No. 1,439,275; Dec. 19.
- Wheel rim, Vehicle. R. S. Bryant. No. 1,430,213; Sept. 26.
- Wheel rims and tires, Carrier and retractor for. W. You. No. 1,419,551; June 13.
- Wheel-securing device. E. B. Grace. No. 1,422,697; July 11.
- Wheel spoke, Metal. J. R. Welch. No. 1,438,882; Dec. 12.
- Wheel-spoke tightener. L. J. Wilson. No. 1,429,706; Sept. 19.
- Wheel structure. E. I. Dodds. Nos. 1,426,157-8; Aug. 15.
- Wheel structure and producing same, Vehicle. H. N. Atwood. No. 1,437,482; Dec. 5.
- Wheel structure, Metal. L. Fine. No. 1,404,283; Jan. 24.
- Wheel tread. C. Bouthillette. No. 1,432,661; Oct. 17.
- Wheel tread. B. J. Daubenheyer. No. 1,435,815; Nov. 14.
- Wheel tread. M. W. Reed. No. 1,402,963; Jan. 10.
- Wheel-truing gauge and alarm. I. Schwartz. No. 1,410,224; Mar. 21.
- Wheel with demountable-rim fastener. J. D. and J. P. Charles. No. 1,412,337; Apr. 11.
- Wheels and the like, Grouser for tractor. M. F. Donahae. No. 1,432,975; Oct. 24.
- Wheels, Antiskid device for vehicle. J. G. Walters. No. 1,431,856; Oct. 10.
- Wheels, Auxiliary rim for tractor. J. H. Clark and T. C. Whitehead. No. 1,433,531; Oct. 31.
- Wheels, Bearing for vehicle. I. H. Fry. No. 1,414,270; Apr. 25.
- Wheels, Bolt for demountable. I. C. Woodward. No. 1,426,802; Aug. 22.
- Wheels, Demountable rim for vehicle. J. S. Culp. No. 1,433,804; Oct. 31.
- Wheels, Demountable rim for vehicle. F. Ginsburg. No. 1,434,113; Oct. 31.
- Wheels, Demountable rim for vehicle. E. G. Wylam. No. 1,427,670; Aug. 29.
- Wheels, Detachable tread for tractor. E. J. Farkas. No. 1,423,519; July 25.
- Wheels, Drive for steerable tractor. J. H. Pifer. No. 1,421,024; June 27.
- Wheels, etc., from their axles, Tool for removing. S. A. Wells. No. 1,412,324; Apr. 11.
- Wheels, Hub cap for disk. K. E. Rada. No. 1,410,506; Mar. 21.
- Wheels, Hub filler for metal. M. Lachman. No. 1,430,910; Oct. 3.
- Wheels, Machine for truing scouring. F. M. Furber. No. 1,436,087; Nov. 21.
- Wheels, Making. R. R. Griffith. No. 1,435,388; Nov. 14.
- Wheels, Manufacturing vehicle. A. J. Michelin. No. 1,413,051; Apr. 18.
- Wheels, Means for locking demountable rims to. H. B. Patten. No. 1,418,458; June 6.
- Wheels of motor vehicles, Splash guard for the. F. J. Hundley and H. M. Lawson. No. 1,421,239; June 27.
- Wheels, Pattern for cast-steel. G. Walther. No. 1,426,621; Aug. 22.
- Wheels, Press for setting metal-felly. P. C. Seeberg. No. 1,428,303; Sept. 5.
- Wheels, Producing. J. L. Hellen. No. 1,423,109; July 18.
- Wheels, Rim construction for pressed-steel. D. H. Bellamore and T. I. S. Boak. No. 1,422,408; July 11.
- Wheels, Rim for steering. J. Erickson. No. 1,421,434; July 4.
- Wheels, Rim-joint connection for vehicle. P. S. Jennings. No. 1,410,187; Mar. 21.
- Wheels, Rim lug for vehicle. R. C. Kleffman. No. 1,416,648; May 16.
- Wheels, Spring-supporting mechanism for spring. J. Hatfield. No. 1,421,224; June 27.
- Wheels to the vertices of a rhombus, Connection of motor-vehicle. O. Fuscaldio. No. 1,426,975; Aug. 22.
- Wheels, Traction attachment for. P. J. Kenny. No. 1,426,199; Aug. 15.
- Wheels, Traction attachment for vehicle. W. G. Johnson. No. 1,437,106; Nov. 28.
- Wheels, Traction device for. C. K. Holt. No. 1,427,813; Sept. 5.
- Wheels, Traction means for motor-vehicle. J. McGilton. No. 1,412,533; Apr. 11.
- Wheels, Traction tread for. H. A. Hunter. No. 1,419,503; June 13.
- Wheels with helical or straight teeth, Machine for cutting bevel-gear. V. G. Dartois. No. 1,426,278; Aug. 15.
- Whiffletree. J. E. Hardy, Jr. No. 1,409,713; Mar. 14.
- Whiffletree-coupling means. W. A. Daniels. No. 1,439,953; Dec. 26.
- Whip. A. W. Goodfellow. No. 1,433,200; Oct. 24.
- Whiplash. J. B. Morgan. No. 1,413,485; Apr. 18.
- Whipper. E. H. Berg. No. 1,416,597; May 16.
- Whistle. R. W. Springer. No. 1,403,274; Jan. 10.
- Whistle, Alarm. G. F. Hall. No. 1,436,876; Nov. 28.
- Wick. L. S. Chadwick. No. 1,403,010; Jan. 10.
- Wick burner, Horizontal-. B. Muller-Thym. No. 1,428,112; Sept. 5.
- Wick device. N. Veenboer. No. 1,432,430; Oct. 17.
- Wick, Lighter. W. M. Grosvenor and J. F. X. Harold. No. 1,430,543; Oct. 3.
- Wicks, Fabric for oil. J. S. Brennan. No. 1,403,229; Jan. 10.
- Wig. S. and H. Bonat. No. 1,433,869; Oct. 31.
- Willow stripper. M. J. Topp and W. G. Miller. No. 1,434,461; Nov. 7.
- Winch. E. S. Bolger. No. 1,425,233; Aug. 8.
- Winch. E. P. Rauscher. No. 1,413,292; Apr. 18.
- Winch, Boom. P. J. Nielsen. No. 1,411,295; Apr. 4.
- Winch elements, Arrangement of. H. S. Myers. No. 1,413,287; Apr. 18.
- Wind and rain shield. G. F. Miles. No. 1,416,112; May 16.
- Wind and water power wheel. F. L. McDowell. No. 1,413,861; Apr. 25.
- Wind deflector. P. Fontaine and F. K. Robeson. No. 1,435,385; Nov. 14.
- Wind deflector. J. P. Gray. No. 1,415,836; May 9.
- Wind instrument. E. A. Couturier. No. 1,438,363; Dec. 12.
- Wind instruments, Mouthpiece for brass. J. T. King. No. 1,410,322; Mar. 21.
- Windmill. P. V. Brymer. No. 1,407,373; Feb. 21.
- Windmill. A. J. Crowley. No. 1,403,234; Jan. 10.
- Windmill. R. A. Fullwood. No. 1,420,652; June 27.
- Windmill. H. J. Hegwer. No. 1,404,715; Jan. 24.
- Windmill. A. Leimi. No. 1,413,339; Apr. 18.
- Windmill. J. J. McCardle. No. 1,439,316; Dec. 19.
- Windmill. P. Melnick. No. 1,418,194; May 30.
- Windmill. R. Morris. No. 1,422,602; July 11.
- Windmill. C. Nolan. No. 1,416,052; May 16.
- Windmill. L. A. Pearson. No. 1,408,905; Mar. 7.
- Windmill. E. A. Toborg. No. 1,411,187; Mar. 28.
- Windmill. W. A. Wilson. No. 1,419,000; June 6.
- Windmill. G. Vail. No. 1,437,370; Nov. 28.
- Windmill. H. C. Vogt, W. V. Boby, and S. D. Lancaster. No. 1,417,000; May 23.
- Windmill. E. R. Wilson. No. 1,417,438; May 23.
- Windmill. R. H. Yale, P. W. Hutchins, and K. Merting. No. 1,421,337; June 27.
- Windmill attachment. L. T. Quinn. No. 1,412,750; Apr. 11.
- Windmill, Feathering-vaned. J. C. Gates. No. 1,403,154; Jan. 10.
- Windmill, Horizontal. A. Homola. No. 1,410,097; Mar. 28.
- Windmills, etc., Mechanical movement for. D. I. Rowland. No. 1,402,966; Jan. 10.
- Wind motor. W. B. Chenoweth. No. 1,408,988; Mar. 7.
- Wind motor. C. Schulthes and B. Mora. No. 1,430,406; Sept. 26.
- Wind motors, Means for regulating the speed of. E. L. Burne. No. 1,403,069; Jan. 10.
- Windshield. J. G. Bruening. No. 1,429,223; Sept. 19.
- Windshield. C. A. Carlson. No. 1,434,871; Nov. 7.
- Windshield. C. M. Fritz. No. 1,434,380; Nov. 7.
- Windshield. R. B. Galloway. No. 1,434,604; Nov. 7.
- Windshield. A. L. Lambert and A. Bell. No. 1,417,076; May 23.
- Windshield. A. C. Lillie. No. 1,412,474; Apr. 11.
- Windshield. A. C. Lillie. No. 1,412,476; Apr. 11.
- Windshield. J. D. Nixon. No. 1,436,816; Nov. 28.
- Windshield. J. R. Oishei. No. 1,407,164; Feb. 21.
- Windshield. S. A. Sena. No. 1,419,414; June 13.
- Windshield. L. W. Swarts. No. 1,402,188; Jan. 3.
- Windshield. C. E. Weaver. No. 1,435,356; Nov. 14.
- Windshield articulated device with mechanical locking means. L. Lewkowicz. No. 1,413,556; Apr. 18.
- Windshield attachment. G. Glaudel. (Reissue.) No. 15,433; Aug. 22.
- Windshield attachment. A. S. Harden. No. 1,421,467; July 4.
- Windshield attachment. J. B. McMullen. No. 1,434,714; Nov. 7.
- Windshield attachment. J. H. Vineberg, J. Halliday, and J. Presner. No. 1,426,793; Aug. 22.
- Windshield canopy. C. M. Robinson. No. 1,416,304; May 16.
- Windshield cleaner. J. Demand. (Reissue.) No. 15,331; Apr. 11.
- Windshield cleaner. F. G. and W. M. Folberth. No. 1,420,538; June 20.
- Windshield cleaner. W. H. Folberth. No. 1,424,890; Aug. 8.
- Windshield cleaner. W. M. Folberth. (Reissue.) No. 15,502; Dec. 5.
- Windshield cleaner. W. M. Folberth. No. 1,438,229; Dec. 12.
- Windshield cleaner. J. G. Haller and H. C. Nicholas. No. 1,439,308; Dec. 19.
- Windshield cleaner. D. C. Oatman and F. G. Curvin. No. 1,414,578; May 2.

Alphabetical list of inventions—Continued.

- Windshield cleaner. O. C. Ritz-Woller. No. 1,402,657; Jan. 3.
- Windshield cleaner. S. Robinson. No. 1,407,672; Feb. 21.
- Windshield cleaner, Power-operated. H. Hueber. No. 1,437,521; Dec. 5.
- Windshield-cleaning apparatus. W. M. Folberth. No. 1,405,773; Feb. 7.
- Windshield-cleaning device. J. G. Haller and H. C. Nicholas. No. 1,439,309; Dec. 19.
- Windshield, Clear-vision. W. de F. Crowell. No. 1,439,950; Dec. 26.
- Windshield clearer. B. Verlangieri. No. 1,407,605; Feb. 21.
- Windshield clearer. S. C. Wolfe. No. 1,432,819; Oct. 24.
- Windshield-clearing device. C. Eibye. No. 1,403,545; Jan. 17.
- Windshield, Divided tonneau. A. C. Lillie. No. 1,412,475; Apr. 11.
- Windshield protector. W. H. Hendel. No. 1,436,314; Nov. 21.
- Windshield, Rear-seat. V. E. Crosby. No. 1,405,499; Feb. 7.
- Windshield shade and utility map holder. L. K. Mulford. No. 1,439,971; Dec. 26.
- Windshield sunshade. G. A. Holsberg. No. 1,421,942; July 4.
- Windshield supporting bracket. O. F. Möller. No. 1,416,114; May 16.
- Windshield, Tonneau. C. I. Decker. No. 1,421,181; June 27.
- Windshield-top fastener. I. T. Gillian and C. E. Coolman. No. 1,404,596; Jan. 24.
- Windshield visor. S. D. Butterworth. No. 1,412,551; Apr. 11.
- Windshield visor. C. F. Hopewell. No. 1,430,231; Sept. 26.
- Windshield weather seal. G. E. Holmes and J. M. and A. G. Bostrom. No. 1,418,305; June 6.
- Windshield wiper. J. W. Cain. No. 1,406,341; Feb. 14.
- Windshield wiper. F. Mertz. No. 1,403,703; Jan. 17.
- Windshield wiper. W. H. Minier. No. 1,439,746; Dec. 26.
- Windshield wiper. B. Rockman. No. 1,403,710; Jan. 17.
- Windshields, Adjustable curtain for. G. Harrold. No. 1,410,529; Mar. 21.
- Windshields and the like and making the same, Glass pane for. L. Winter. No. 1,438,470; Dec. 12.
- Windshields, Auxiliary screen for. S. H. Winchester. No. 1,409,987; Mar. 21.
- Windshields, Supporting frame for. A. Golde. No. 1,418,643; June 6.
- Windshields, Wing for. W. B. Sewell. Nos. 1,416,422-3; May 16.
- Wind tunnel balance. A. F. Zahm. No. 1,404,920; Jan. 31.
- Wind wheel. S. Holterud. No. 1,415,645; May 9.
- Wind wheel. W. H. Robertson. No. 1,434,563; Nov. 7.
- Winder. B. A. Peterson. No. 1,430,254; Sept. 26.
- Winding apparatus. L. S. Rosener. No. 1,433,849; Oct. 31.
- Winding and dyeing machine. E. A. Thompson. No. 1,415,964; May 16.
- Winding and sharpening apparatus. O. Nordbo. No. 1,407,475; Feb. 21.
- Winding device. M. O. Clauss. No. 1,409,671; Mar. 14.
- Winding device. V. E. Extrom. No. 1,419,832; June 13.
- Winding device. D. L. Mattern. No. 1,417,402; May 23.
- Winding drum. E. L. Gardner. No. 1,435,461; Nov. 14.
- Winding drum. N. S. Harter. No. 1,438,176; Dec. 12.
- Winding drums, Electric switch and stop for. C. F. Cuno. No. 1,422,181; July 11.
- Winding drums, Electric switch for. C. H. Cuno. No. 1,422,180; July 11.
- Winding machine. J. C. Anderson. No. 1,427,509; Aug. 29.
- Winding machine. E. D. Treanor. Nos. 1,413,366-7; Apr. 18.
- Winding machine, Automatic. J. Josephs and D. T. Berlizheimer. No. 1,437,976; Dec. 5.
- Winding machine, Coil-. W. L. O'Brien and O. H. Spencer. No. 1,406,215; Feb. 14.
- Winding machine, Coil-. S. R. Wright. No. 1,440,044; Dec. 26.
- Winding machine, Field-. G. C. Huggins. No. 1,407,033; Feb. 21.
- Winding machine, Grommet-. R. C. Pierce. No. 1,415,696; May 9.
- Winding-machine traverse mechanism. C. A. Huttlinger. No. 1,425,655; Aug. 15.
- Winding machine, Welt-. J. A. Brogan. No. 1,412,837; Apr. 18.
- Winding machines, Cleaner and gauge for. M. N. Weinstein. No. 1,434,938; Nov. 7.
- Winding machines, Feed hopper for bobbin-. P. A. Herr. No. 1,440,295; Dec. 26.
- Winding machines, Stop motion for. G. O. McKean. No. 1,406,572; Feb. 14.
- Winding machines, Traverse motion for. G. M. Taylor. No. 1,427,035; Aug. 22.
- Winding machines, Yarn and thread cleaner for. J. D. Joyce. No. 1,431,812; Oct. 10.
- Winding mechanism. G. E. Henry. No. 1,413,582; Apr. 25.
- Winding mechanism. A. J. Holmes. No. 1,415,644; May 9.
- Winding mechanism. R. M. Johnstone. No. 1,408,742; Mar. 7.
- Winding mechanism. R. M. Johnstone. No. 1,433,551; Oct. 31.
- Windlass. J. Johnson. No. 1,410,016; Mar. 21.
- Windlass, Motor. H. McLaren. No. 1,434,957; Nov. 7.
- Windlasses, Clutch for. S. McIntosh and J. S. Guild. No. 1,424,501; Aug. 1.
- Window. C. S. Bushell. No. 1,433,780; Oct. 31.
- Window. J. A. Fentress. No. 1,418,550; June 6.
- Window. G. Guard. No. 1,414,947; May 2.
- Window. A. H. Krueger. No. 1,401,989; Jan. 3.
- Window. E. C. McCarty. No. 1,410,487; Mar. 21.
- Window. D. A. MacAskill. No. 1,429,897; Sept. 19.
- Window. W. H. Sheehan and J. W. Eckard. No. 1,403,575; Jan. 17.
- Window. H. Schmidt. No. 1,437,449; Dec. 5.
- Window. J. Siegfried. No. 1,423,629; July 25.
- Window. C. E. Ward. No. 1,406,786; Feb. 14.
- Window. G. B. Wettstein. No. 1,407,503; Feb. 21.
- Window. B. Whibley. No. 1,423,057; July 18.
- Window and door clamp. A. Mazzanovich. No. 1,434,305; Oct. 31.
- Window and metal weather strip therefor, Metal casement. F. P. Anderson. No. 1,429,915; Sept. 26.
- Window adjuster. F. Pournier. No. 1,422,552; July 11.
- Window adjuster. K. Naudulaitis. No. 1,425,675; Aug. 15.
- Window adjuster. A. Olfort. No. 1,419,893; June 13.
- Window adjuster, Casement-. J. H. Shaw. No. 1,426,415; Aug. 22.
- Window attachment. J. A. Meloon. No. 1,405,057; Jan. 31.
- Window catch. W. H. F. Jeska. No. 1,425,593; Aug. 15.
- Window cleaner. E. De Marco. No. 1,431,934; Oct. 17.
- Window cleaner. A. Meconi. No. 1,423,239; July 18.
- Window cleaner. C. F. Mumaw. No. 1,420,937; June 27.
- Window cleaner or wiper. H. M. Howell. No. 1,408,945; Mar. 7.
- Window-cleaner's stand, Convertible. J. Gabriel. No. 1,402,156; Jan. 3.
- Window cleaners, Safety seat for. J. Badagliacca. No. 1,437,484; Dec. 5.
- Window cleaning and other exposed positions, Safety device for use in. P. J. Gill. No. 1,409,702; Mar. 14.
- Window-cleaning apparatus. J. Gazdzicki. No. 1,416,280; May 16.
- Window-cleaning device. W. H. A. Brown. No. 1,419,356; June 13.
- Window-cleaning device. H. Hueber. No. 1,404,772; Jan. 31.
- Window-cleaning device. J. P. Meyer. No. 1,409,055; Mar. 7.
- Window-closing lock. J. Waitch. No. 1,438,006; Dec. 5.
- Window construction. R. T. Axe. No. 1,407,314; Feb. 21.
- Window construction. G. T. Bell. No. 1,413,377; Apr. 18.
- Window construction. P. Bologh. No. 1,404,085; Jan. 17.
- Window construction. J. Elniff. No. 1,414,776; May 2.
- Window construction. S. W. Nicholson. No. 1,404,048; Jan. 17.
- Window construction. F. J. Plym. No. 1,432,896; Oct. 24.
- Window construction. D. R. Richards. No. 1,437,269; Nov. 28.
- Window construction. J. F. and F. J. Steckenreiter. No. 1,420,457; June 20.
- Window construction. T. E. Walker. No. 1,428,068; Sept. 5.
- Window construction for buildings. B. L. Rothstein. No. 1,414,583; May 2.
- Window construction, Metal. F. Mesker and J. Beuc. No. 1,421,019; June 27.
- Window construction, Reversible. W. R. Wood. No. 1,405,247; Jan. 31.
- Window-control mechanism. J. D. Lawrence and S. W. Nicholson. No. 1,419,937; June 20.
- Window-control mechanism. S. W. Nicholson. No. 1,439,751; Dec. 26.
- Window-control mechanism, Vehicle. S. W. Nicholson. No. 1,414,523; May 2.
- Window-controlling device. S. W. Nicholson. No. 1,440,025; Dec. 26.
- Window-controlling mechanism. S. W. Nicholson. No. 1,412,569; Apr. 11.
- Window cooling and washing apparatus. O. W. Hagberg and E. M. Linde. No. 1,402,416; Jan. 3.
- Window cooling box. E. R. Tompkins. No. 1,407,447; Feb. 21.
- Window, Curtain. J. P. de Broeck. No. 1,418,539; June 6.
- Window-curtain fixture. A. C. Rader. No. 1,433,227; Oct. 24.
- Window device, Vehicle. H. Clausen. No. 1,424,282; Aug. 1.
- Window, Display. J. Reichl. No. 1,416,875; May 23.
- Window fastener. C. A. Schmitt. No. 1,436,780; Nov. 28.
- Window fastener or latch. F. Fournier. No. 1,427,730; Aug. 29.
- Window-fastening device. R. B. Butler. No. 1,408,862; Mar. 7.
- Window frame. C. W. Hodgen. No. 1,407,536; Feb. 21.

- Window frame and sash. H. E. Campbell. No. 1,426,458; Aug. 22.
- Window frames or sashes, Apparatus for operating. H. Colombelle. No. 1,406,154; Feb. 7.
- Window-front construction. V. Ross and E. S. Rhoads. No. 1,430,757; Oct. 3.
- Window guard. H. C. Harper. No. 1,440,144; Dec. 26.
- Window guard. L. A. Wieland. No. 1,438,202; Dec. 12.
- Window guard. M. Wilson. No. 1,433,584; Oct. 31.
- Window-hole protector. C. L. Wolfe and J. A. Faurot. No. 1,407,975; Feb. 28.
- Window, Hollow metal. G. W. Summers. No. 1,431,849; Oct. 10.
- Window latch. J. N. Duncan. No. 1,411,006; Mar. 28.
- Window lift. H. B. Penney. No. 1,436,287; Nov. 21.
- Window lifter. J. H. Zoldowski. No. 1,435,572; Nov. 14.
- Window-lifting device. T. J. Kehoe. No. 1,439,899; Dec. 26.
- Window lock. N. J. Bishop. No. 1,433,931; Oct. 31.
- Window lock. W. E. Huber. No. 1,426,294; Aug. 15.
- Window lock. M. T. A. Kelly. No. 1,416,035; May 16.
- Window lock. W. M. Lowthorp. No. 1,424,107; July 25.
- Window lock. C. Szalai. No. 1,432,640; Oct. 17.
- Window lock. D. Zumwalt. No. 1,420,358; June 20.
- Window lock, balance, and lift, Combination automatic. P. L. Throne. No. 1,420,503; June 20.
- Window lock, Sliding. H. E. Hunter. No. 1,404,297; Jan. 24.
- Window lock, Ventilating-. C. E. Steltz. No. 1,403,207; Jan. 10.
- Window, Metallic. W. W. Crocker. No. 1,405,817; Feb. 7.
- Window-mounting device. H. Faurot, Jr. No. 1,421,927; July 4.
- Window-mounting device. H. Faurot, Jr. No. 1,422,951; July 18.
- Window-operating device. C. I. Goldblatt. No. 1,421,938; July 4.
- Window-operating means. J. Parsons. No. 1,421,547; July 4.
- Window or door, Auxiliary. R. C. Higby and E. J. O'Neill. No. 1,404,025; Jan. 17.
- Window or door lock. J. J. Babuzky. No. 1,433,671; Oct. 31.
- Window opening and closing mechanism. H. E. Norwood and F. G. Maier. No. 1,439,373; Dec. 19.
- Window-pane fastener. W. Leichtfuss. No. 1,426,204; Aug. 15.
- Window panes, Retaining device for. F. Sima. No. 1,413,497; Apr. 18.
- Window, Railway carriage and like. M. Ritter. No. 1,409,471; Mar. 14.
- Window regulator. L. T. Bulley. No. 1,430,793; Oct. 3.
- Window regulator. L. W. Gates. No. 1,405,510; Feb. 7.
- Window regulator. L. W. Gates. No. 1,408,879; Mar. 7.
- Window regulator. G. W. Wells. No. 1,429,120; Sept. 12.
- Window regulator. G. W. Wells. No. 1,421,330; June 27.
- Window-regulator slide. E. E. Heintz. No. 1,430,647; Oct. 3.
- Window, Reversible. F. W. Bowler. No. 1,427,088; Aug. 29.
- Window-rod fastener. A. Chenel. No. 1,410,459; Mar. 21.
- Window sash. J. De Bobrowski. No. 1,436,086; Nov. 21.
- Window sash. M. Pisula. No. 1,407,573; Feb. 21.
- Window sash and window frame. J. Whitehead. No. 1,412,640; Apr. 11.
- Window-sash balance. T. L. Patrick. No. 1,420,280; June 20.
- Window-sash fastener. A. E. Davis. No. 1,423,310; July 18.
- Window-sash fastener. H. Fox. No. 1,407,022; Feb. 21.
- Window-sash holder. A. J. Houle and E. H. Humble. No. 1,409,858; Mar. 14.
- Window-sash operating and locking mechanism. A. R. Ferrell. No. 1,407,055; Feb. 21.
- Window-sash weight. C. L. Schneider. No. 1,426,224; Aug. 15.
- Window sashes, Counterbalancing sash for main. G. W. Lancaster. No. 1,407,549; Feb. 21.
- Window screen. I. W. Cherry. No. 1,422,539; July 11.
- Window screen. H. Finckh. No. 1,436,952; Nov. 28.
- Window screen. J. D. Hippolitus. No. 1,429,344; Sept. 19.
- Window screen. A. Jenkins. No. 1,425,484; Aug. 8.
- Window screen. C. S. Myers. No. 1,417,763; May 30.
- Window screen. F. W. Nass. No. 1,438,777; Dec. 12.
- Window screen. F. Reini. No. 1,402,892; Jan. 10.
- Window-screen adjuster. P. C. Pachesa. No. 1,417,104; May 23.
- Window screen and sash locker. C. Ellis. No. 1,425,515; Aug. 15.
- Window-screen construction. W. H. J. Fitzgerald. No. 1,426,561; Aug. 22.
- Window screen, Fly-trapping. P. B. Samuelson. No. 1,411,189; Mar. 28.
- Window-screen hanger. C. D. Agee. No. 1,424,431; Aug. 1.
- Window-screen hinge. H. Muller. No. 1,417,097; May 23.
- Window-screen mounting. G. W. Getsinger. No. 1,429,337; Sept. 19.
- Window screen, window sash, and ventilator, Combination. R. E. Cummings and J. V. Sullivan. No. 1,436,864; Nov. 28.
- Window screens, Corner brace for. S. Brendza. No. 1,419,608; June 13.
- Window seat. L. Gaitman. No. 1,438,704; Dec. 12.
- Window shade. G. Pagano. No. 1,402,176; Jan. 3.
- Window-shade and curtain-holding device, Combination. C. E. Durham and A. J. Rohr. No. 1,414,982; May 2.
- Window-shade and curtain-pole holder. L. W. Schmidt. No. 1,432,571; Oct. 17.
- Window-shade attachment. C. C. Stegemeyer. No. 1,436,209; Nov. 21.
- Window-shade fixture. G. B. Holland. No. 1,422,056; July 4.
- Window-shade holder. G. H. Baker. No. 1,414,929; May 2.
- Window-shade roller. E. R. Brock. No. 1,417,298; May 23.
- Window shield, Bank-. H. W. Huntress. No. 1,423,327; July 18.
- Window-shifting mechanism. N. Des Rosier. No. 1,417,147; May 23.
- Window shutter. C. Gugino. No. 1,407,856; Feb. 28.
- Window shutters, blinds, etc., Operating mechanism for. A. B. Longenbaugh. No. 1,406,198; Feb. 14.
- Window silencer. H. P. Hanson. No. 1,429,872; Sept. 19.
- Window sill, Auxiliary. H. Johnson. No. 1,416,561; May 16.
- Window sill, Weatherproof. A. C. Langford. No. 1,427,304; Aug. 29.
- Window stay. W. Boyle. No. 1,434,732; Nov. 7.
- Window stay and fastener. T. P. Eustege. No. 1,410,902; Mar. 28.
- Window, Storm. F. D. Hunt. No. 1,419,384; June 13.
- Window, Storm. J. Peterson. No. 1,416,057; May 16.
- Window structure, Casement-. G. W. De Waters. No. 1,436,951; Nov. 28.
- Window, Swinging. H. T. Atkinson. No. 1,431,619; Oct. 10.
- Window, Ventilating. C. R. Bowman. No. 1,412,039; Apr. 11.
- Window ventilation shield. T. B. Lewis. No. 1,432,112; Oct. 17.
- Window ventilator. C. C. Brabant. No. 1,428,074; Sept. 5.
- Window ventilator and mounting therefor. S. Jurisch. No. 1,409,050; Mar. 7.
- Window washer and cleaner. R. A. Greelish. No. 1,416,817; May 23.
- Window-washers' harness, Anchor and clip for. G. F. Minnis. No. 1,404,993; Jan. 31.
- Window-washing apparatus. J. Wojnarski. No. 1,428,823; Sept. 12.
- Window weight. C. N. Johnson. No. 1,402,865; Jan. 10.
- Window weight. C. E. Strating. No. 1,428,191; Sept. 5.
- Windows and doors, Antirattler for. W. S. Forbes. No. 1,405,575; Feb. 7.
- Windows and the like, Fastener for swinging. W. E. Putnam. No. 1,432,784; Oct. 24.
- Windows, Antirattler for. E. W. Ladd. No. 1,406,264; Feb. 14.
- Windows, Antivapor device for. M. Marchalonis. No. 1,403,335; Jan. 10.
- Windows, Combined shade and curtain fixture for. O. C. Benham. No. 1,431,092; Oct. 3.
- Windows, Counterbalancing and adjustable sash for. W. H. Peaden. No. 1,405,557; Feb. 7.
- Windows, doors and the like, Fastener and retainer for casement. T. P. Eustege. No. 1,411,482; Apr. 4.
- Windows in partially-open position, Window-sash fastener for locking. W. F. Stagers. No. 1,407,006; Feb. 21.
- Windows, Lock for slidable. E. P. Farum. No. 1,420,993; June 27.
- Windows, Locking device for sliding. J. B. Danfois. No. 1,439,296; Dec. 19.
- Windows, Means for operating casement. T. H. Ludlow. No. 1,409,459; Mar. 14.
- Windows, Protecting device for show. M. A. Skall. No. 1,424,043; July 25.
- Windows, sashes, shutters, or the like, Actuating mechanism for. A. D. Kumpf. No. 1,430,819; Oct. 3.
- Windows, Stay for casement. D. Donald. No. 1,422,680; July 11.
- Windrowing machine, Sugar-cane-. G. D. Luce. No. 1,434,785; Nov. 7.
- Wine press. A. C. and A. Galdi. No. 1,412,029; Apr. 4.
- Wipers or squeegees, Attachment for. A. Wenger. No. 1,413,441; Apr. 18.
- Wiping mechanism. A. Perri. Nos. 1,420,573-4; June 20.
- Wiping mechanism. N. Walker. No. 1,407,104; Feb. 21.
- Wire and making the same, Bead. A. G. Pratt. Nos. 1,431,720-1; Nov. 7.
- Wire and rod, Means for drawing. M. Howarth. No. 1,406,867; Feb. 14.
- Wire and wire ropes, Device for stretching. O. Stüttgen. No. 1,429,796; Sept. 19.
- Wire articles, such as springs, Machine for making helically-coiled. H. A. Rhinevault. No. 1,431,757; Oct. 10.
- Wire bending and knotting machine. A. Rhenstrom. No. 1,429,253; Sept. 19.
- Wire-bending machine. P. Liva. No. 1,422,455; July 11.
- Wire-bending machine. S. R. Reynolds. No. 1,418,470; June 6.
- Wire-bending machine. O. Stenson. No. 1,426,790; Aug. 22.
- Wire-bending machine. A. T. Weiss. No. 1,429,814; Sept. 19.
- Wirebound-box construction. E. Craig. No. 1,437,227; Nov. 28.

Alphabetical list of inventions—Continued.

- Wire-bound-box blank machines, Binding-wire-cutting mechanism for. J. Shellenberger. No. 1,416,419; May 16.
- Wire, Bundled. S. E. Cary. No. 1,423,478; July 18.
- Wire, Bundled. S. C. Cary. Nos. 1,427,518-9; Aug. 29.
- Wire chain link. M. Olson. No. 1,440,170; Dec. 26.
- Wire clamp, Fence-. D. Spalding. No. 1,435,508; Nov. 14.
- Wire-cleaning method and apparatus. W. F. Zabel and L. E. Reakes. No. 1,403,727; Jan. 17.
- Wire-cloth apron for driers. F. G. Sargent and C. T. Brooks. No. 1,411,937; Apr. 4.
- Wire-coil conveyor. S. and J. Zoppelt. No. 1,417,288; May 23.
- Wire-coil-spring machine, Adjustable. A. Armstrong. No. 1,403,372; Jan. 10.
- Wire-coiling device. F. M. Ramsdell. No. 1,417,629; May 30.
- Wire connector. E. S. Carrier. No. 1,404,377; Jan. 24.
- Wire connector. G. W. Pugh. No. 1,417,408; May 23.
- Wire-covering machine. M. B. Bradt. No. 1,411,233; Mar. 28.
- Wire cutter. W. J. Warren. No. 1,414,239; Apr. 25.
- Wire-cutting implement. P. P. Daniels. No. 1,428,276; Sept. 5.
- Wire-drawing blocks, Stripping mechanism for. J. Sommer. No. 1,414,380; May 2.
- Wire-drawing die. H. Blount. No. 1,438,940; Dec. 19.
- Wire, Electrolytically-coated. M. M. Merritt. Nos. 1,405,534-5; Feb. 7.
- Wire-fabric machine. A. E. Blashill. Nos. 1,437,488-9; Dec. 5.
- Wire fabrics and machines therefor, Weaving of coiled. H. A. Fraser and P. F. Crighton. No. 1,431,645; Oct. 10.
- Wire fastener. O. Olson. No. 1,405,715; Feb. 7.
- Wire-fastening device. J. L. Sullivan. No. 1,435,429; Nov. 14.
- Wire-feeding device. J. L. Anderson. No. 1,431,916; Oct. 17.
- Wire-fence attachment. W. M. Story. No. 1,418,684; June 6.
- Wire-fence clamp. L. E. Weller. No. 1,426,527; Aug. 22.
- Wire-fence fastener. V. Petersen. No. 1,422,127; July 11.
- Wire-fence machine. I. N. Morford. No. 1,432,719; Oct. 17.
- Wire-fence tightener. C. Gushwa. No. 1,423,211; July 18.
- Wire fencing, Post for. C. Parker. No. 1,422,301; July 11.
- Wire-filling units to wire-fabric shuttles, Apparatus for automatically feeding. W. S. Southwick. No. 1,415,492; May 9.
- Wire fitting, Guy-. H. W. Flickinger. No. 1,405,828; Feb. 7.
- Wire glass, Making corrugated. W. Cox and A. Shuman. No. 1,418,236; May 30.
- Wire handling machine. L. I. M. W., and L. H. Iverson. No. 1,418,575; June 6.
- Wire hoop and crating machine. J. Gilmour. No. 1,411,488; Apr. 4.
- Wire-insulating stripper. W. Jannell. No. 1,424,482; Aug. 1.
- Wire lathing. G. M. Wright. No. 1,406,519; Feb. 14.
- Wireless control apparatus. J. H. Hammond, Jr. No. 1,419,376; June 13.
- Wireless duplex signaling system. M. M. Dolmage. No. 1,414,629; May 2.
- Wireless repeater system. E. A. Sperry. No. 1,428,507; Sept. 5.
- Wireless signal systems, Relay for. F. S. McCullough. No. 1,403,701; Jan. 17.
- Wireless signaling. R. A. Heising. No. 1,406,857; Feb. 14.
- Wireless signaling apparatus. R. E. Wiustanley, jr. No. 1,438,567; Dec. 12.
- Wireless signaling system. I. Langmuir. (Reissue.) No. 1,495; Nov. 21.
- Wireless signals, Static reducer for. A. M. Curtis. No. 1,415,999; May 16.
- Wireless telegraphy. H. J. Round and G. M. Wright. No. 1,403,840; Jan. 17.
- Wireless telegraphy, Amplifying device for use in. J. B. Bolitho. No. 1,407,245; Feb. 21.
- Wireless telegraphy and telephony, Process and apparatus for. W. E. Beakes. No. 1,438,290; Dec. 12.
- Wireless telegraphy, Telephone installation in. L. N. Brillouin and G. A. Beauvais. No. 1,404,573; Jan. 24.
- Wireless transmission of writing pictures and the like, System for. M. H. Petersen. No. 1,436,676; Nov. 28.
- Wire-line clamp. C. F. Dotts. No. 1,403,152; Jan. 10.
- Wire-line-cutting device. G. L. McKain. No. 1,403,470; Jan. 10.
- Wire-line socket. C. V. Augenstein. No. 1,429,312; Sept. 19.
- Wire-link fabric. W. J. Mahoney. No. 1,406,406; Feb. 14.
- Wire-link-fabric machine. A. Rhenstrom and O. H. Watkins. No. 1,424,379; Aug. 1.
- Wire-link machine. G. B. Smith. No. 1,419,476; June 13.
- Wire loop. O. A. Michelis. No. 1,428,701; Sept. 12.
- Wire looping and coiling tool. J. H. Brassell. No. 1,413,453; Apr. 18.
- Wire, Machine for feeding and cutting. P. Wright. No. 1,435,488; Nov. 14.
- Wire, Machine for forming. N. R. Thibert. No. 1,426,425; Aug. 22.
- Wire, Machine for hardening and tempering. C. D. Johnson. No. 1,409,452; Mar. 14.
- Wire, Machine for making fabricated. A. A. Griner. No. 1,439,411; Dec. 19.
- Wire-mending and fence tool. B. F. Emery. No. 1,434,652; Nov. 7.
- Wire or cable coupling. F. L. Burns and F. J. Tessin. No. 1,427,258; Aug. 29.
- Wire package binder. S. C. Cary. No. 1,419,110; June 6.
- Wire, Pile. R. E. Thompson. No. 1,419,527; June 13.
- Wire reel. E. Fulda. No. 1,424,651; Aug. 1.
- Wire reel. J. L. Lantz, I. T. Ansbaugh, and F. E. Loutzenhiser. No. 1,436,043; Nov. 21.
- Wire-reel. E. E. Leedy. No. 1,403,123; Jan. 10.
- Wire, Reel for barbed. T. F. Walker. No. 1,404,672; Jan. 24.
- Wire rope. R. D. Green. Nos. 1,405,835-8; Feb. 7.
- Wire rope, Compound. G. Pyburn. No. 1,429,529; Sept. 19.
- Wire-rope machine. A. E. Anderson. No. 1,422,073; July 11.
- Wire-rope socket. E. W. Daniel. No. 1,421,676; July 4.
- Wire-rope socket. D. W. Snow. No. 1,408,144; Feb. 28.
- Wire sash-chain-attaching device, Coiled-. J. R. Reyburn. No. 1,418,972; June 6.
- Wire-spoke wheel. O. H. Jobski. No. 1,426,480; Aug. 22.
- Wire-spoked wheel. E. G. Budd. No. 1,424,554; Aug. 1.
- Wire-spoked wheel, Detachable. W. H. Pauli. No. 1,410,501; Mar. 21.
- Wire-stitching machine. H. R. Bliss. No. 1,430,150; Sept. 26.
- Wire-stitching machine. G. T. Buckham and J. I. Nasmith. No. 1,422,081; July 11.
- Wire stitching or stapling machines, Feeding mechanism for. D. A. Flavell. No. 1,429,230; Sept. 19.
- Wire straightener. A. H. Nilson. No. 1,414,371; May 2.
- Wire-strapping tool. L. Campbell. Nos. 1,431,151-2; Oct. 10.
- Wire straps, Machine for making. W. N. Larcott. No. 1,427,962; Sept. 5.
- Wire stretcher. D. H. Allen. No. 1,410,523; Mar. 21.
- Wire stretcher. J. H. Best. No. 1,428,414; Sept. 5.
- Wire stretcher. A. Bloom. No. 1,412,447; Apr. 11.
- Wire stretcher. P. Cullerton. No. 1,415,998; May 16.
- Wire stretcher. F. J. Gleason. No. 1,406,846; Feb. 14.
- Wire stretcher. J. U. Tilford. No. 1,436,216; Nov. 21.
- Wire stretcher, Fence-. J. Franzen. No. 1,435,059; Nov. 7.
- Wire stretcher, fence straightener, and vehicle jack. E. V. Caldwell. No. 1,432,590; Oct. 17.
- Wire-stretching machine. E. J. Elias. No. 1,415,089; May 9.
- Wire-stretching tool. J. W. Leslie. No. 1,430,388; Sept. 26.
- Wire-stretching tool, Screen-. F. G. Stewart. No. 1,407,898; Feb. 28.
- Wire-stripping machine. C. J. Wersel. No. 1,433,320; Oct. 24.
- Wire-supporting structure. W. S. Schaake. No. 1,406,288; Feb. 14.
- Wire tensioning and twisting machine. A. J. Gerrard and P. Wright. No. 1,425,850; Aug. 15.
- Wire tie. E. Holmes. No. 1,421,781; July 4.
- Wire tie and seal making and applying tool. A. M. Bates. No. 1,429,920; Sept. 26.
- Wire tightener and twister. W. H. Mead. No. 1,418,956; June 6.
- Wire tool, Bail-. L. Campbell. No. 1,430,623; Oct. 3.
- Wire twister. J. H. Akard. No. 1,406,715; Feb. 14.
- Wire twister. S. M. Johnson. No. 1,435,854; Nov. 14.
- Wire-tying machine. A. J. Gerrard and P. Wright. No. 1,405,110; Jan. 31.
- Wire tying or twisting machine. A. J. Gerrard. No. 1,408,936; Mar. 7.
- Wire-tying tool. A. M. Bates. No. 1,436,637; Nov. 28.
- Wire-weaving machine, Portable. E. L. Crosswhite. No. 1,431,373; Oct. 10.
- Wire wheel. M. Lachman. No. 1,432,191; Oct. 17.
- Wire wheel. J. R. Rupe. No. 1,411,382; Apr. 4.
- Wire-winding device. U. G. Dillon. No. 1,431,784; Oct. 10.
- Wire with silk, cotton, etc., Machine for covering. J. Narizzano. No. 1,416,497; May 16.
- Wireworking appliance. O. Stenson. No. 1,434,856; Nov. 7.
- Wireworking machine. H. Stelnes. No. 1,414,053; Apr. 25.
- Wires, Clamping device for use in splicing line. C. R. Wood and M. T. Tiptord. No. 1,440,200; Dec. 26.
- Wires, Container for electric. H. Charm. No. 1,421,168; June 27.
- Wires in fusible sheets, Device for embedding. R. B. Reed, jr. No. 1,428,185; Sept. 5.
- Wires, Water and oil proof housing for timer. R. F. Bash. No. 1,435,098; Nov. 7.
- Wood and metal surfaces, Producing oak imitation by deep poring upon common. G. Schenk. No. 1,408,643; Mar. 7.
- Wood and metals, Composition and process for preserving. W. V. Watson. No. 1,404,501; Jan. 24.
- Wood and other porous material, Treating. W. V. Lander. No. 1,429,288; Sept. 19.
- Wood, Apparatus and process for drying. K. Fujino. No. 1,413,018; Apr. 18.
- Wood-bending device. C. Duff. No. 1,421,186; June 27.
- Wood-bending machine. L. P. Malin. No. 1,430,244; Sept. 26.

- Wood by compression, Consolidating. W. R. Turnbull. No. 1,403,722; Jan. 17.
- Wood-carving machine. C. Ruppel. No. 1,433,154; Oct. 24.
- Wood-carving machine. W. B. Young. No. 1,439,215; Dec. 19.
- Wood construction, Artificial-fiber-. L. Havasy. No. 1,407,747; Feb. 28.
- Wood filler. O. V. Stewart and A. R. Hatzfeld. No. 1,438,618; Dec. 12.
- Wood joint. O. T. Theodorsen. No. 1,426,232; Aug. 15.
- Wood, Method and apparatus for loosening bark from pulp. G. P. Berkey. No. 1,402,138; Jan. 3.
- Wood, Method and apparatus for transforming. H. F. Weiss. (Reissue.) No. 15,316; Mar. 21.
- Wood, Method and means for the metallization of. I. De Vecchis. No. 1,409,087; Mar. 7.
- Wood, Method of and apparatus for impregnating. W. C. Zeller. No. 1,438,471; Dec. 12.
- Wood, pasteboard, masonry, leather, sheet iron, etc., Coating for the preservation of. E. Beck. No. 1,418,172; May 30.
- Wood preservative. R. A. Leam. No. 1,404,128; Jan. 17.
- Wood products, Method and apparatus for obtaining. E. Berthelon. No. 1,426,346; Aug. 22.
- Wood-pulp fibers, Machine for pressing. C. L. Hamilton. No. 1,419,847; June 13.
- Wood, Seasoning. A. O. Crail. No. 1,416,269; May 16.
- Wood-slicing machine. P. J. R. Postel-Vinay. No. 1,415,470; May 9.
- Wood-splitting machine. A. R. Treat. No. 1,425,298; Aug. 8.
- Wood stain and making same. K. Wessel. No. 1,402,553; Jan. 3.
- Wood surfaces, Machine for dressing and cleaning. C. S. Dernbach. No. 1,410,554; Mar. 28.
- Wood-turning machine. J. Kernes and I. Karish. No. 1,430,900; Dec. 26.
- Wood wheel. S. L. Prescott and F. J. Rummier. No. 1,437,993; Dec. 5.
- Woodworking and other machines, Feeding chain for. C. B. Foster and F. H. Clement. No. 1,424,090; July 25.
- Woodworking bit. E. G. Stein. No. 1,410,534; Mar. 21.
- Woodworking cutter, Rotary. W. H. Jones. No. 1,438,651; Dec. 12.
- Woodworking machine. J. Hanson. No. 1,422,971; July 18.
- Woodworking machine. E. M. Palmer. No. 1,435,329; Nov. 14.
- Woodworking machine. H. Shaw. No. 1,402,667; Jan. 3.
- Woodworking machine. P. H. Young. No. 1,407,112; Feb. 21.
- Woodworking machine, Convertible. F. E. Thomas. No. 1,420,591; June 20.
- Woodworking machine, Pattern-controlled. A. P. Smith and W. E. Shockley. No. 1,418,028; May 30.
- Woodworking machine, Portable combination. J. F. Powell. No. 1,417,686; May 30.
- Woodworking machinery. L. Fritz. No. 1,421,204; June 27.
- Woodworking machines, Chip breaker for. C. G. Osteman. No. 1,404,402; Jan. 24.
- Woodworking machines, Cutter head for. F. Schimmel. No. 1,432,792; Oct. 24.
- Woodworking machines, Feed mechanism for. A. A. Johnson. No. 1,428,036; Sept. 5.
- Woodworking machines, Guard for. W. F. Donley. Nos. 1,430,889-90; Oct. 3.
- Woodworking machines, Guard for. C. Young. No. 1,426,625; Aug. 22.
- Woodworking tool. A. Richard. No. 1,404,650; Jan. 24.
- Woodworking tool. F. R. Shugart. No. 1,404,660; Jan. 24.
- Woodworking tool. S. Sorenson. No. 1,421,599; July 4.
- Wooden sheets, Method of and apparatus for bending. A. Elmendorf. No. 1,409,689; Mar. 14.
- Wool and other fibrous or textile materials or fabrics, Machine for washing. T. W. Hawkins. No. 1,434,340; Oct. 31.
- Wool and other fibrous substances, Apparatus for treating. G. Bailey and W. Robertshaw. No. 1,432,825; Oct. 24.
- Wool, Reddish-violet monoazo dye for. H. Schweitzer. No. 1,420,782; Sept. 19.
- Wool, Scouring. T. D. Smith. No. 1,405,560; Feb. 7.
- Wool, slubbing, yarns, etc., Apparatus for treating. J. Kershaw. No. 1,405,038; Jan. 31.
- Wordometer. A. R. Kay. No. 1,439,555; Dec. 19.
- Workbench. J. F. Magalski. No. 1,426,660; Aug. 22.
- Workbench. G. A. Scott. No. 1,408,408; Feb. 28.
- Workbox for domestic use. R. Kelsall. No. 1,408,093; Feb. 28.
- Work-clamping bench. O. Hodgkinson. No. 1,418,924; June 6.
- Work-feeding device. J. D. Crossley. No. 1,438,021; Dec. 5.
- Work holder. P. M. Anderson. No. 1,415,855; May 16.
- Work holder. A. Dameron. No. 1,422,749; July 11.
- Work holder. B. M. W. Hanson. No. 1,415,342; May 9.
- Work holder. A. B. Henderson. No. 1,421,230; June 27.
- Work holder. H. H. Hoffman. No. 1,403,781; Jan. 17.
- Work holder, Tailor's. H. Podolsky. No. 1,404,478; Jan. 24.
- Work-holding device. G. A. Carlson. No. 1,430,625; Oct. 3.
- Work-holding-foot mechanism. J. P. Weis. No. 1,419,087; June 6.
- Work pieces, Feeding mechanism for. W. N. Stevenson. No. 1,424,785; Aug. 8.
- Work-positioning means, Controlling mechanism for. I. C. Buckminster. No. 1,404,190; Jan. 24.
- Work-recording apparatus, Automatic. W. Poppeleuter. No. 1,431,597; Oct. 10.
- Work stand. W. Moser. No. 1,436,893; Nov. 28.
- Work support. O. Ashton. No. 1,435,194; Nov. 14.
- Work support. W. F. Groene. No. 1,405,206; Jan. 31.
- Work support. F. De Grouchy. No. 1,431,876; Oct. 10.
- Work support. A. H. Lyon. No. 1,438,250; Dec. 12.
- Work support. F. L. Mackenzie. No. 1,417,540; May 30.
- Work support. F. M. Moody. No. 1,430,579; Oct. 3.
- Work support, Slidable. A. S. Blowers. No. 1,427,777; Sept. 5.
- Worktable, Rotatable. J. H. Staley. No. 1,409,257; Mar. 14.
- Working machine. J. Lieberherr and R. Brunner. No. 1,438,443; Dec. 12.
- Worm and making the same. J. L. Perkins, L. E. Deloghia, and H. D. Croft. No. 1,437,009; Nov. 28.
- Worm drive, Adjustable. G. A. Weidely. No. 1,407,904; Feb. 28.
- Worm gears, Worm for. H. Seemann. No. 1,421,580; July 4.
- Worsted top finishers, Attachment for. W. Hart. No. 1,433,275; Oct. 24.
- Wounds, Device for treating surgical. G. S. Thompson. No. 1,405,355; Jan. 31.
- Woven tubular fabric. W. E. Hill and C. V. Firth. No. 1,423,524; July 25.
- Woven-wire fabric, Seam for. H. Lindsay. No. 1,440,159; Dec. 26.
- Wrapper. R. S. Reynolds. No. 1,421,027; June 27.
- Wrappers on packages and mechanism for carrying out said process, Placing. A. R. Schollin. No. 1,417,946; May 30.
- Wrapping and machine therefor. R. Leumann. No. 1,424,363; Aug. 1.
- Wrapping and packing articles, Means for. E. D. Anderson. No. 1,417,591; May 30.
- Wrapping machine. E. H. Angier and W. M. Wheildon. No. 1,432,009; Oct. 17.
- Wrapping machine. C. O. Brownell. No. 1,416,165; May 16.
- Wrapping machine. M. B. Grout. No. 1,413,725; Apr. 25.
- Wrapping machine. F. Heath. No. 1,423,324; July 18.
- Wrapping machine. P. Pierce. No. 1,432,034; Oct. 17.
- Wrapping machine. H. Rose. No. 1,434,152; Oct. 31.
- Wrapping machine. H. A. Sévigné. No. 1,412,754; Apr. 11.
- Wrapping machine. P. Varga. No. 1,424,534; Aug. 1.
- Wrapping machine. W. M. Wheildon. No. 1,409,504; Mar. 14.
- Wrapping machine. W. M. Wheildon. No. 1,439,387; Dec. 19.
- Wrapping machine, Handle. C. A. Hull. No. 1,412,747; Apr. 11.
- Wrapping-machine shuttle. W. B. Pierce. No. 1,432,894; Oct. 24.
- Wrapping machines, Apparatus for delivering fastening strips for. K. Otting. No. 1,409,063; Mar. 7.
- Wrapping or labeling machine. P. Varga. No. 1,417,956; May 30.
- Wrench: See—
- Adjustable wrench. Multiple-socket wrench.
 - Automatic wrench. Nut wrench.
 - Automatic pipe wrench. Pipe wrench.
 - Basin-cock wrench. Plier wrench.
 - Casing wrench. Ratchet wrench.
 - Chain wrench. Ratchet hydrant wrench.
 - Chain pipe wrench. Reversible wrench.
 - Combination wrench. Self-locking wrench.
 - Flange wrench. Socket wrench.
 - Flexible wrench. Spanner wrench.
 - Flexible chain wrench. Spark-plug wrench.
 - Gauging wrench. Tap wrench.
 - Grease-gun wrench. Track-bolt wrench.
 - Inside pipe wrench. Turnbuckle wrench.
 - Lamp wrench. Wrist-pick wrench.
 - Machine wrench.
- Wrench. F. L. Allen. No. 1,409,811; Mar. 14.
- Wrench. R. H. Ambrose. No. 1,405,250; Jan. 31.
- Wrench. A. H. and J. H. Anderson. No. 1,412,821; Apr. 18.
- Wrench. P. F. Anderson. No. 1,421,366; July 4.
- Wrench. E. J. Armstrong. No. 1,431,451; Oct. 10.
- Wrench. G. Ayers. No. 1,428,466; Sept. 5.
- Wrench. J. R. Ayotte. No. 1,438,165; Dec. 12.
- Wrench. W. M. Baldwin. No. 1,404,729; Jan. 31.
- Wrench. C. F. Ballard. No. 1,405,255; Jan. 31.
- Wrench. A. H. Bartelt. No. 1,406,331; Feb. 14.
- Wrench. J. B. Baum. No. 1,404,828; Jan. 31.
- Wrench. W. S. Bellows. No. 1,420,467; June 20.
- Wrench. D. C. Bettison. No. 1,419,659; June 13.
- Wrench. F. W. Blackmar. No. 1,424,069; July 25.
- Wrench. T. Blair. No. 1,436,472; Nov. 21.
- Wrench. W. L. Bonnell. No. 1,401,956; Jan. 3.
- Wrench. C. O. Borkman. No. 1,428,835; Sept. 12.
- Wrench. E. Brown. No. 1,406,531; Feb. 14.
- Wrench. H. E. Brown. No. 1,404,089; Jan. 17.

Alphabetical list of inventions—Continued.

- Wrench. R. T. Brown. No. 1,420,409; June 20.
 Wrench. A. and O. F. Carlson. No. 1,412,552; Apr. 11.
 Wrench. E. C. Coleman. No. 1,415,867; May 16.
 Wrench. A. H. Collins. No. 1,408,444; Mar. 7.
 Wrench. J. O. Cromwell. No. 1,401,964; Jan. 3.
 Wrench. J. J. Demers. No. 1,430,955; Oct. 3.
 Wrench. C. L. Devos. No. 1,416,271; May 16.
 Wrench. J. Dobrzanski. No. 1,427,364; Aug. 29.
 Wrench. N. Eckles. No. 1,408,275; Feb. 28.
 Wrench. W. F. Evans. No. 1,438,952; Dec. 19.
 Wrench. C. C. Finkbousen. No. 1,415,826; May 9.
 Wrench. E. M. Gazlay. No. 1,438,641; Dec. 12.
 Wrench. C. C. Gibson. No. 1,430,734; Oct. 3.
 Wrench. F. R. Gilby. No. 1,421,936; July 4.
 Wrench. R. L. Glabaznya. No. 1,428,282; Sept. 5.
 Wrench. W. Gordon. No. 1,407,528; Feb. 21.
 Wrench. N. W. Graham. No. 1,422,563; July 11.
 Wrench. H. Gutman. No. 1,418,256; May 30.
 Wrench. B. W. Hanle. No. 1,422,760; July 11.
 Wrench. J. Harrison. No. 1,426,985; Aug. 22.
 Wrench. W. E. Hawkins, Jr. No. 1,424,643; Aug. 1.
 Wrench. E. L. Hazard. No. 1,407,152; Feb. 21.
 Wrench. N. Hellem. No. 1,414,949; May 2.
 Wrench. G. D. Illig. No. 1,423,803; July 25.
 Wrench. G. D. Illig. No. 1,426,647; Aug. 22.
 Wrench. H. O. Johnson. No. 1,409,863; Mar. '14.
 Wrench. J. A. Johnson. No. 1,413,121; Apr. 18.
 Wrench. W. R. Kahns. No. 1,427,601; Aug. 29.
 Wrench. L. W. Keith. No. 1,424,202; Aug. 1.
 Wrench. O. R. Kirkpatrick. No. 1,414,817; May 2.
 Wrench. J. B. Kitterman. No. 1,409,554; Mar. 14.
 Wrench. A. C. Klopfer. No. 1,420,635; June 27.
 Wrench. W. H. Krumsick. No. 1,417,390; May 23.
 Wrench. A. Kurka. No. 1,402,505; Jan. 3.
 Wrench. N. G. Larson. No. 1,419,391; June 13.
 Wrench. J. E. Lenahan. No. 1,417,338; May 23.
 Wrench. G. A. Lexander. No. 1,419,870; June 13.
 Wrench. H. E. Lightner. No. 1,420,116; June 20.
 Wrench. K. O. W. Lindquist. No. 1,411,285; Apr. 4.
 Wrench. W. T. Long. No. 1,408,524; Mar. 7.
 Wrench. F. R. Lueck. No. 1,430,574; Oct. 3.
 Wrench. D. E. Lundberg. No. 1,405,140; Jan. 31.
 Wrench. J. C. Mahan. No. 1,408,622; Mar. 7.
 Wrench. J. E. McCafferty. No. 1,412,290; Apr. 11.
 Wrench. A. McDonald. No. 1,417,756; May 30.
 Wrench. E. McDonald. No. 1,434,552; Nov. 7.
 Wrench. C. A. McIlvaine. No. 1,403,334; Jan. 10.
 Wrench. J. S. McKibbin. No. 1,423,499; July 18.
 Wrench. L. F. Meyer. No. 1,405,795; Feb. 7.
 Wrench. J. Mitchell. No. 1,411,365; Apr. 4.
 Wrench. H. M. Moutooth. No. 1,434,139; Oct. 31.
 Wrench. B. E. Moyer. No. 1,437,475; Dec. 5.
 Wrench. J. Mumford. No. 1,423,247; July 18.
 Wrench. A. A. Mutchmor. No. 1,434,911; Nov. 7.
 Wrench. B. Myer and J. Brown. No. 1,421,536; July 4.
 Wrench. W. M. Myers. No. 1,406,408; Feb. 14.
 Wrench. B. F. Nightlinger, Sr. No. 1,412,702; Apr. 11.
 Wrench. C. H. Noyes. No. 1,424,178; Aug. 1.
 Wrench. V. L. Ochoa. No. 1,417,196; May 23.
 Wrench. J. F. Oliver and J. P. Fleming. No. 1,435,548; Nov. 14.
 Wrench. C. A. Olson. No. 1,419,404; June 13.
 Wrench. R. H. Owens. No. 1,423,142; July 18.
 Wrench. M. Parker. No. 1,437,612; Dec. 5.
 Wrench. C. B. Parsons. No. 1,424,676; Aug. 1.
 Wrench. A. Partin. No. 1,425,415; Aug. 8.
 Wrench. B. G. Patterson. No. 1,402,249; Jan. 3.
 Wrench. B. G. Patterson. No. 1,405,716; Feb. 7.
 Wrench. F. P. Pease. No. 1,418,161; May 30.
 Wrench. G. C. Peters. No. 1,406,755; Feb. 14.
 Wrench. C. Peterson. No. 1,405,432; Feb. 7.
 Wrench. J. H. Phipps and H. F. Turner. No. 1,408,958; Mar. 7.
 Wrench. J. C. Piechocki and E. K. Boinski. No. 1,437,774; Dec. 5.
 Wrench. T. Prentice. No. 1,436,110; Nov. 21.
 Wrench. A. A. Prevost. No. 1,422,621; July 11.
 Wrench. C. E. Reed. No. 1,412,260; Apr. 11.
 Wrench. L. G. Reynolds and A. L. Holman. No. 1,428,805; Sept. 12.
 Wrench. F. P. Robert. No. 1,407,578; Feb. 21.
 Wrench. G. Robinson. No. 1,433,153; Oct. 24.
 Wrench. J. C. Romine. No. 1,403,199; Jan. 10.
 Wrench. H. E. Rose. No. 1,402,659; Jan. 3.
 Wrench. H. E. Rutter. No. 1,424,521; Aug. 1.
 Wrench. J. W. Saffold. No. 1,415,714; May 9.
 Wrench. M. Saloun. No. 1,429,639; Sept. 19.
 Wrench. W. H. Scott. No. 1,417,354; May 23.
 Wrench. R. S. Shackford. Nos. 1,434,753-4; Nov. 7.
 Wrench. J. Shearman. No. 1,413,622; Apr. 25.
 Wrench. A. M. Shenk. A. Saltzer and L. Saltzer. No. 1,408,143; Feb. 28.
 Wrench. W. C. Sheppard. No. 1,419,525; June 13.
 Wrench. A. Shirk. No. 1,417,210; May 23.
 Wrench. J. W. Shook. No. 1,413,495; Apr. 18.
 Wrench. C. A. Short. No. 1,430,694; Oct. 3.
 Wrench. L. S. Sloane. No. 1,406,293; Feb. 14.
 Wrench. R. G. Speight. No. 1,405,347; Jan. 31.
 Wrench. E. D. Stansill. No. 1,404,665; Jan. 24.
 Wrench. C. H. Stauffer. No. 1,427,918; Sept. 5.
 Wrench. B. J. Steen and O. Duda. No. 1,412,143; Apr. 11.
 Wrench. R. H. Stein. No. 1,433,668; Oct. 31.
 Wrench. A. Stuarts. No. 1,414,839; May 2.
 Wrench. C. E. Summers. No. 1,434,635; Nov. 7.
 Wrench. H. C. Sutherland. No. 1,406,910; Feb. 14.
 Wrench. E. E. Thomas. No. 1,410,627; Mar. 28.
 Wrench. G. W. Thomas and H. L. Scott. No. 1,415,734; May 9.
 Wrench. J. J. Thomas. No. 1,407,360; Feb. 21.
 Wrench. F. C. Thompson. No. 1,411,135; Mar. 28.
 Wrench. F. Thueringer. No. 1,406,106; Feb. 7.
 Wrench. W. H. Treisch. No. 1,431,064; Oct. 3.
 Wrench. J. Van Horn. No. 1,429,812; Sept. 19.
 Wrench. V. J. Van Horn. No. 1,425,816; Aug. 15.
 Wrench. F. E. Walden. No. 1,432,813; Oct. 24.
 Wrench. F. E. Walden. No. 1,437,458; Dec. 5.
 Wrench. F. H. Ward. No. 1,420,795; June 27.
 Wrench. W. H. Ward. No. 1,429,053; Sept. 12.
 Wrench. H. W. Watson. No. 1,429,386; Sept. 19.
 Wrench. F. N. Welsh. No. 1,408,667; Mar. 7.
 Wrench. O. M. White and W. C. McCullough. No. 1,422,402; July 11.
 Wrench. J. J. Wilkinson. No. 1,403,825; Jan. 17.
 Wrench. R. A. Wilson. No. 1,418,768; June 6.
 Wrench. F. C. Wutke. No. 1,407,110; Feb. 21.
 Wrench. A. Young. No. 1,404,079; Jan. 17.
 Wrench. G. A. Young. No. 1,410,866; Mar. 28.
 Wrench. Adjustable. L. E. Baltzley. No. 1,415,914; May 16.
 Wrench, Adjustable. M. A. Capobianco. No. 1,413,516; Apr. 18.
 Wrench, Adjustable. G. D. Leechman. No. 1,413,125; Apr. 18.
 Wrench, Adjustable. C. H. Rulfs. No. 1,403,978; Jan. 17.
 Wrench and pipe cutter, Combination. J. Nieradka. No. 1,402,311; Jan. 3.
 Wrench and pliers, Combination. A. L. Landis and J. C. Snodgrass. No. 1,405,232; Jan. 31.
 Wrench attachment. T. E. Cox. No. 1,437,043; Nov. 28.
 Wrench attachment. J. E. Fisher. No. 1,412,205; Apr. 11.
 Wrench, Combination. E. W. Funk. No. 1,422,689; July 11.
 Wrench, Combination. C. G. Palmer. No. 1,402,373; Jan. 3.
 Wrench, Combined. G. T. Parsley. No. 1,422,471; July 11.
 Wrench for shut-off valves or the like. K. Hoffman. No. 1,420,701; June 27.
 Wrench handle. F. E. Parsons and W. M. Robinson. No. 1,420,279; June 20.
 Wrench handle, Speed-. A. L. Walters. No. 1,433,163; Oct. 24.
 Wrench heads, Making socket-. H. G. Carlson. No. 1,430,004; Sept. 26.
 Wrench mechanism. J. G. Moomy. No. 1,412,667; Apr. 11.
 Wrench or other tool. J. R. Ayotte. No. 1,424,794; Aug. 8.
 Wrench or spanner. T. J. Pryor. No. 1,407,577; Feb. 21.
 Wrench, Socket. W. A. Abegg. No. 1,422,067; July 11.
 Wrenches, Attachment for. A. E. Carlberg. No. 1,424,712; Aug. 1.
 Wrenches, Bolt-retaining attachment for. E. K. Degener. No. 1,426,847; Aug. 22.
 Wrenches, Releasing device for pipe. N. K. Smith. No. 1,428,121; Sept. 5.
 Wringer: See—
 Clothes wringer. Mop and wringer.
 Mop wringer.
 Wringer. E. F. Beebe. No. 1,406,436; Feb. 14.
 Wringer. E. F. Beebe. No. 1,438,626; Dec. 12.
 Wringer. G. H. Jantz. No. 1,408,807; Mar. 7.
 Wringer. B. S. McCutchen. No. 1,429,246; Sept. 19.
 Wringer. B. S. McCutchen. No. 1,435,933; Nov. 21.
 Wringer. E. D. Misner. No. 1,409,752; Mar. 14.
 Wringer. G. E. Randles. Nos. 1,411,743-4; Apr. 4.
 Wringer. J. R. Spencer. No. 1,413,195; Apr. 18.
 Wringer. R. A. Watkins. No. 1,426,526; Aug. 22.
 Wringer. H. A. Webster. No. 1,426,798; Aug. 22.
 Wringer. H. A. Webster. No. 1,439,655; Dec. 19.
 Wringer frame. B. S. McCutchen. No. 1,435,932; Nov. 21.
 Wringer support. H. W. Eden. No. 1,425,514; Aug. 15.
 Wringer support. H. A. Sperlich. No. 1,420,157; June 20.
 Wringers, Motor attachment for. C. A. Winter. No. 1,436,555; Nov. 21.
 Wristlet. J. P. Kelly. No. 1,407,658; Feb. 21.
 Wrist pin. T. G. Saxton. No. 1,404,654; Jan. 24.
 Wrist-pin wrench. W. T. Sutherland. No. 1,435,511; Nov. 14.
 Wrist strap. A. Wilson. No. 1,408,919; Mar. 7.
 Writing-adding machine. H. A. Foothorap. No. 1,421,201; June 27.
 Writing and studying chair. H. R. Wilkins. No. 1,435,774; Nov. 14.
 Writing, Device for use of the blind in. P. Fast. No. 1,426,055; Aug. 15.
 Writing implement. J. F. Hume. No. 1,438,114; Dec. 5.
 Writing instrument, Self-luminous. A. V. T. Day. No. 1,420,184; June 20.
 Writing machine. R. J. Orr. No. 1,439,708; Dec. 26.
 Writing machine, Multiple-. F. A. Johnson. No. 1,428,331; Sept. 5.

Alphabetical list of inventions—Continued.

- Writing pads or blocks, Clamp or holder for. F. Martens. No. 1,406,992; Feb. 21.
- Wrought iron, Making. J. Aston. No. 1,412,823; Apr. 18.
- Wrought iron, Making. J. Aston. No. 1,413,513; Apr. 18.
- X-ray angle indicator. H. R. Raper. Nos. 1,408,777-8; Mar. 7.
- X-ray apparatus. W. D. Coolidge. No. 1,408,989; Mar. 7.
- X-ray apparatus. G. Hotelling and W. D. Coolidge. No. 1,430,550; Oct. 3.
- X-ray apparatus. W. Meyer. No. 1,430,096; Sept. 26.
- X-ray apparatus, Panoramic. A. F. Zulauf. No. 1,408,559; Mar. 7.
- X-ray apparatus, Stereoscopic. L. R. McDonald. No. 1,438,500; Dec. 12.
- X-ray cabinet. E. L. Edwards. No. 1,419,241; June 13.
- X-ray cabinet and machine. W. H. Thwaites. No. 1,423,635; July 25.
- X-ray cathode. S. Tousey. No. 1,431,063; Oct. 3.
- X-ray dental film package. A. F. Sulzer and H. G. Dewey. No. 1,437,827; Dec. 5.
- X-ray-film mount. A. N. Sinclair. No. 1,410,130; Mar. 21.
- X-ray films, Holder for dental. L. A. J. Hawkins. No. 1,434,894; Nov. 7.
- X-ray machine. C. Fayer. No. 1,409,439; Mar. 14.
- X-ray stand. W. Meyer. No. 1,414,658; May 2.
- X-ray stereoscope. B. Y. Miller. No. 1,440,231; Dec. 26.
- X-ray system. H. D. Garrettson. No. 1,431,578; Oct. 10.
- X-ray-tube holder. Adjustable. E. L. Edwards. No. 1,423,924; July 25.
- X-ray-tube shield. W. D. Coolidge. No. 1,437,290; Nov. 28.
- Xylene and other similar hydrocarbons, Treatment of. W. F. Rittman. No. 1,419,124; June 6.
- Yard post. C. E. Renshaw and E. C. Healy. No. 1,407,817; Feb. 28.
- Yarn, Apparatus for twisting mixed feather. K. Ohashi. No. 1,436,898; Nov. 28.
- Yarn, Apparatus for winding and twisting. C. W. Hubbard. No. 1,433,723; Oct. 31.
- Yarn clearer and tension device, Combined. J. O. McKean. No. 1,423,864; July 25.
- Yarn, Device for guiding, clearing, and tensioning. J. O. McKean. No. 1,405,792; Feb. 7.
- Yarn, Device for guiding, clearing, and tensioning. J. O. McKean. No. 1,435,539; Nov. 14.
- Yarn guide and tension. S. M. Cabral. No. 1,436,942; Nov. 28.
- Yarn, Machine for manufacturing asbestos. J. A. Heany. No. 1,407,685; Feb. 21.
- Yarn moistener. F. L. Furbush. No. 1,437,588; Dec. 5.
- Yarn rack. W. S. Trickett. No. 1,422,012; July 4.
- Yarn-reclaiming device. A. R. Breen. No. 1,427,056; Aug. 22.
- Yarn reel. C. E. Rogers. No. 1,428,119; Sept. 5.
- Yarn reel. C. E. Rogers. No. 1,439,330; Dec. 19.
- Yarn stripper. H. C. Springstead. No. 1,403,354; Jan. 10.
- Yarn-tension device. L. T. Houghton. No. 1,436,103; Nov. 21.
- Yarn-tension device. A. M. Pigeon. No. 1,435,495; Nov. 14.
- Yarns and fabrics composed of vegetable fibers containing dyed-effect threads or fibers, Scouring and bleaching of. J. D. Lumsden, R. W. R. Mackenzie, E. H. Robinson, and M. Fort. No. 1,435,864; Nov. 14.
- Yarns, Machine for beaming. R. Auderton and J. C. Blackhurst. No. 1,437,703; Dec. 5.
- Yeast and making the same. T. B. Wagner. No. 1,434,462; Nov. 7.
- Yeast and making the same, Dried. A. W. Hixson. No. 1,420,630; June 27.
- Yeast, Drying. E. Klein. No. 1,420,558; June 20.
- Yeast for the purpose of employing it as edible yeast, Improving the odor, taste, and digestibility of raw. H. Plauson. No. 1,415,469; May 9.
- Yeast, Growing of. B. A. Stagner. No. 1,425,065; Aug. 8.
- Yeast, Preparing dried. E. Klein. No. 1,420,557; June 20.
- Yeast when mixed with dough, Composition of matter for increasing growth of. W. A. and E. W. Geere. No. 1,431,156; Oct. 10.
- Yield-point detector. M. C. Hutchinson. No. 1,428,637; Sept. 12.
- Yielding unit. C. W. Jones. No. 1,435,307; Nov. 14.
- Yoke. U. C. Long. No. 1,403,427; Jan. 10.
- Yoke and draft attachment, Coupling. E. C. Washburn. No. 1,436,068; Nov. 21.
- Yoke and making same, Drawbar. C. E. Bauer. No. 1,439,659; Dec. 19.
- Yoke, Drawbar. J. A. Lamont. No. 1,412,622; Apr. 11.
- Yoke, Drawbar. G. C. Murray. No. 1,418,450; June 6.
- Yoke, Equalizing neck. L. Grebner. No. 1,436,874; Nov. 28.
- Yoke, Neck. A. R. Friberg. No. 1,430,071; Sept. 26.
- Yoke, Stock. C. J. Minton. No. 1,411,863; Apr. 4.
- Yokes, Making draft-gear. A. J. Canfield. No. 1,404,833; Jan. 31.
- Zero-resetting device. K. V. Rudin. No. 1,435,556; Nov. 14.
- Zigzag cutter. P. Kruse. No. 1,433,138; Oct. 24.
- Zinc by electrolysis, Recovery of. D. Avery and R. H. Stevens. No. 1,403,065; Jan. 10.
- Zinc coating metal surfaces and zinc paint therefor. H. N. Copthorne. No. 1,439,610; Dec. 19.
- Zinc cups intended for dry cells, Manufacture of. E. I. Gatson. No. 1,419,839; June 13.
- Zinc dust, Manufacturing. T. Kato. No. 1,425,661; Aug. 15.
- Zinc dust, Process and apparatus for treating. F. P. Lannon, Jr. No. 1,412,621; Apr. 11.
- Zinc extraction. W. G. Waring. No. 1,430,269; Sept. 26.
- Zinc from complex ores, Recovering. J. T. Ellsworth. No. 1,429,330; Sept. 19.
- Zinc-lead fume, Treatment of. W. G. Waring. No. 1,430,271; Sept. 26.
- Zinc oxide from zinciferous materials, especially slags, Recovery of. F. C. W. Timm. No. 1,409,318; Mar. 14.
- Zinc oxide, Treating by-product. J. E. Booge. No. 1,426,849; Aug. 22.
- Zinc recovery. J. T. Ellsworth. No. 1,435,703; Nov. 14.
- Zinc recovery. K. S. Guiterman. No. 1,438,643; Dec. 12.
- Zinc solution, Producing pure. E. Kardos. No. 1,409,727; Mar. 14.
- Zinc-sulphate solutions, Purification of. C. R. Kuzell and J. R. Marston. No. 1,427,826; Sept. 5.
- Zirconium compounds, Production of. L. Burgess. No. 1,418,528; June 6.
- Zither. Keyed. J. Puchalski. No. 1,405,328; Jan. 31.
- Zone and marker for same, Safety. G. C. Kimmel and H. Billing. No. 1,403,033; Jan. 10.

ALPHABETICAL LIST OF DESIGNS.

- Abdominal protector for boxers. M. Golomb. No. 61,135; June 27.
- Advertising board. C. L. Herbert. No. 61,341; Aug. 8.
- Advertising device. J. Hull. No. 60,145; Jan. 3.
- Advertising device. W. Wheelock. No. 60,713; Mar. 21.
- Advertising device. F. S. Woodrow. No. 61,457; Sept. 5.
- Advertising device or similar article. H. W. Hiss. No. 61,541; Oct. 17.
- Advertising picture exhibitor. C. E. Sturdivant. No. 61,551; Oct. 17.
- Airplane, Aviator-operated. J. D. Hill. No. 61,392; Aug. 22.
- Andiron. W. Wheelock. No. 60,888; Apr. 18.
- Apparel or other articles, Hanger for wearing. L. A. Schmucker and E. R. Norling. No. 60,919; Apr. 25.
- Apparel trimming, Wearing. O. Tagliaferri. No. 60,835; Apr. 11.
- Apron, Child's soap-bubble. M. T. Waters. No. 61,023; May 30.
- Apron, Dress. M. White. No. 61,182; July 4.
- Ash tray. W. M. Chapman. No. 61,267; July 25.
- Ash tray. R. Haley. No. 60,788; Apr. 11.
- Ash tray. D. J. Kenney. No. 61,622; Nov. 14.
- Ash tray. S. Kronburger. No. 61,470; Sept. 12.
- Ash tray. H. Negbauer. No. 61,019; May 30.
- Ash tray and match-box holder, Combination. S. Kronburger. No. 61,343; Aug. 8.
- Ash tray and match receptacle, Combination. S. Kronburger. No. 61,416; Aug. 29.
- Ash-tray cover. G. J. Seiss. No. 60,824; Apr. 11.
- Ash tray or the like. R. A. Cowles. Nos. 61,463-4; Sept. 12.
- Ash tray, Smoker's. M. Friedman. No. 61,570; Oct. 24.
- Atomizer head. T. A. De Vilbiss. No. 60,782; Apr. 11.
- Auto wheel lock. H. S. Waterman. No. 60,204; Jan. 10.
- Automobile. H. L. Goehde. No. 60,657; Mar. 21.
- Automobile. W. L. Pollard. No. 60,568; Mar. 7.
- Automobile armrest. L. H. Simpson. No. 60,577; Mar. 7.
- Automobile body. L. L. Driggs. No. 60,516; Mar. 7.
- Automobile body, Electric. W. C. Carr. No. 60,314; Feb. 7.
- Automobile body or similar article, Interior fitting for an. F. E. Greene. No. 61,675; Nov. 21.
- Automobile motometer light. E. H. Frazier. No. 60,786; Apr. 11.
- Automobile ornament. H. I. Davidson. No. 60,323; Feb. 7.
- Automobile radiator cap. E. H. Frazier. No. 60,613; Mar. 14.
- Automobile radiator cap. M. Simon. Nos. 60,177-8; Jan. 3.
- Automobile radiator cap. M. Simon. No. 60,380; Feb. 7.
- Automobile radiator cap. P. A. Watson. No. 60,841; Apr. 11.
- Automobile radiator closure. R. Preiss. No. 61,399; Aug. 22.
- Automobile radiator ornament. W. S. Harris. No. 60,492; Feb. 28.
- Automobile radiator ornament, badge, button or similar article. F. H. Topel. No. 60,503; Feb. 28.

Alphabetical list of designs—Continued.

- Automobile window handle. F. W. Walker. No. 61,056; June 6.
- Automobile windshield wing. R. D. Parker. No. 60,808; Apr. 11.
- Automobile wrench. C. A. Shedd. No. 60,270; Jan. 17.
- Automobiles, Radiator cap for. J. Tuomey. No. 61,403; Aug. 22.
- Automobiles, Temperature indicator for radiators of. J. Kleidman. No. 60,417; Feb. 14.
- Aviator's badge. H. Marvet. No. 61,445; Sept. 5.
- Badge. T. W. Holt. No. 60,344; Feb. 7.
- Badge. H. C. Kneezel. No. 60,150; Jan. 3.
- Badge. G. E. Reber. No. 60,263; Jan. 17.
- Badge. W. D. M. Simmons. No. 61,691; Nov. 21.
- Badge, button, charm, emblem, pin, or similar article. T. C. Katke. No. 61,197; July 11.
- Badge, button, emblem, or article of similar nature. F. Walter, jr. No. 61,334; Aug. 1.
- Badge, button, emblematic cap, or article of similar nature. E. A. Baughan. No. 61,693; Nov. 28.
- Badge, button, or similar article. W. J. Stewart. No. 61,124; June 20.
- Badge, emblem, pin, or similar article. A. W. Scheppach, I. E. Hutton, and E. Reeks. No. 60,203; Jan. 10.
- Badge, Emblematic. W. H. Hargrave. No. 61,572; Oct. 24.
- Badge or emblem. E. J. Ryan. No. 61,633; Oct. 31.
- Badge or emblem. D. W. Smith. No. 60,578; Mar. 7.
- Badge, pin, button, or similar article of manufacture. W. L. Mann. No. 61,204; July 11.
- Badge, pin, button, or similar emblem. E. S. R. Bickel and P. De Barthe. Nos. 60,509-10; Mar. 7.
- Badge, pin, ring, emblem, or similar article. H. W. Peters. No. 61,477; Sept. 12.
- Bag attachment, Hand-. A. E. Murphy. No. 60,622; Mar. 14.
- Bag frame. E. P. Hadley and C. C. Holden. Nos. 60,234-6; Jan. 17.
- Bag frame. C. C. Holden and E. P. Hadley. No. 60,240; Jan. 17.
- Bag or article of similar nature, Hand. R. M. Sommer. No. 61,668; Nov. 14.
- Bag, School. W. Chernoff. No. 60,444; Feb. 21.
- Bank. A. L. Shirley. No. 60,739; Mar. 28.
- Basket. G. P. Shearer. No. 61,667; Nov. 14.
- Bathtub. A. Sandegren. No. 60,266; Jan. 17.
- Bedstead end frame. F. Anderson. Nos. 60,765-6; Apr. 11.
- Bedstead end frame. W. Lies. Nos. 60,729-30; Mar. 28.
- Bedstead end frame. E. L. Rosenburgh. Nos. 60,736-7; Mar. 28.
- Bedstead end frame. E. L. Rosenburgh. Nos. 61,423-5; Aug. 29.
- Bedstead end frames. E. L. Rosenburgh. Nos. 61,000-1; May 23.
- Bedstead frame. C. A. Stuart. Nos. 61,549-50; Oct. 17.
- Bedstead frames, Grille for. C. A. Stuart. Nos. 61,547-8; Oct. 17.
- Belt. J. W. Dill. No. 60,608; Mar. 14.
- Belt. T. Fisher. No. 61,091; June 20.
- Belt-buckle frame. S. Buchsbaum. Nos. 60,849-52; Apr. 18.
- Belt package. F. F. Raniville. No. 60,429; Feb. 14.
- Bicycle handle bar grip. T. R. Palmer. No. 60,702; Mar. 21.
- Billiard and pool sign, Combined. M. Gaskill. No. 60,525; Mar. 7.
- Bird bath. A. A. Lyon. No. 60,912; Apr. 25.
- Blouses, Vest for ladies'. J. H. Mumaw. No. 60,874; Apr. 18.
- Bonnet, Child's. M. S. Strang. No. 60,886; Apr. 18.
- Book end and candlestick, Combined. H. Reber. No. 61,328; Aug. 1.
- Book ends, Pair of. J. W. Wunsch. No. 61,430; Aug. 29.
- Bookholder. A. S. C. and H. R. P. Forbes. No. 61,292; Aug. 1.
- Boot. J. Gasper. No. 60,133; Jan. 3.
- Boot top. C. Tweedie. No. 61,404; Aug. 22.
- Bottle. J. H. Carmichael. No. 61,131; June 27.
- Bottle. F. J. de S. Coty. No. 60,320; Feb. 7.
- Bottle. W. G. Eisenmayer. No. 61,012; May 30.
- Bottle. R. Eyben. No. 61,409; Aug. 29.
- Bottle. R. C. Graham. No. 61,658; Nov. 14.
- Bottle. C. Johnstone. No. 61,196; July 11.
- Bottle. J. A. Maler. No. 61,503; Sept. 19.
- Bottle. M. B. Marble. Nos. 60,555-7; Mar. 7.
- Bottle. C. C. Morrison. Nos. 60,563-4; Mar. 7.
- Bottle. L. B. Newell. No. 61,506; Sept. 19.
- Bottle. L. B. Newell. No. 61,544; Oct. 17.
- Bottle. G. Rehns. No. 61,422; Aug. 29.
- Bottle. F. K. Smith. No. 60,472; Feb. 21.
- Bottle. L. Steinberger. No. 61,669; Nov. 14.
- Bottle. J. Tyner. No. 60,591; Mar. 7.
- Bottle. F. H. Wendt. No. 61,075; June 13.
- Bottle, Nursing. M. E. Palmer. No. 60,567; Mar. 7.
- Bowl. I. F. Kleinfeld. No. 61,663; Nov. 14.
- Bowl, Mixing. I. Ambler. No. 60,746; Apr. 4.
- Box, Candy. R. J. Burnap. No. 60,606; Mar. 14.
- Box cover. H. W. Kelsey and W. H. Baer. Nos. 61,308-10; Aug. 1.
- Bracelet. J. L. Sabbath. No. 60,377; Feb. 7.
- Bracelet. J. L. Sabbath. No. 60,470; Feb. 21.
- Bracket back. G. E. Villaret. No. 60,710; Mar. 21.
- Brassière. C. L. Motta. No. 60,156; Jan. 3.
- Brick, Building. E. McConville. No. 60,253; Jan. 17.
- Brocade fabric. J. H. Bunting. No. 60,642; Mar. 21.
- Broom and mop hanger. J. L. Clements. No. 60,980; May 23.
- Broom holder. F. G. Howe. No. 61,162; July 4.
- Broom lock. T. Taylor. No. 60,588; Mar. 7.
- Brush. D. A. Andrews. Nos. 61,356-8; Aug. 15.
- Brush. A. L. Kohn. No. 60,941; May 9.
- Brush. J. A. Trego. No. 60,431; Feb. 14.
- Brush, comb, and mirror, Combination. G. Halinka and G. Santo. No. 60,615; Mar. 14.
- Buckle frame, Belt-. E. M. Davis. Nos. 61,535-8; Oct. 10.
- Buckle frame, Belt-. L. W. Shields. Nos. 61,745-6; Dec. 26.
- Building block. J. P. L. Jorgensen. No. 60,148; Jan. 3.
- Bulletin and time board, Combined. I. A. Burnett. No. 61,435; Sept. 5.
- Burial garment. D. I. Parker. No. 60,367; Feb. 7.
- Button. B. H. Grossman. No. 61,093; June 20.
- Button. R. Kuno. No. 61,095; June 20.
- Button, badge, emblem, pin, or article of similar nature. F. H. Johnson. No. 61,306; Aug. 1.
- Button, flag, emblem, pennant, banner, pillow top, or similar article. A. C. Fallace. No. 60,522; Mar. 7.
- Button, Fraternal. K. B. Warner. No. 60,923; Apr. 25.
- Cabinet. H. C. Gowran. No. 61,364; Aug. 15.
- Cabinet and basket-crib support, Combined baby. W. L. Playman. No. 60,160; Jan. 3.
- Cabinet, Kitchen. L. Tokarski. No. 61,074; June 13.
- Cabinet unit. J. H. Rand, Jr. No. 60,998; May 23.
- Cabinet, Washing-machine. A. W. Altofer. No. 60,393; Feb. 14.
- Calendar mounting. D. M. Weston. No. 61,265; July 18.
- Camera, Motion-picture. E. W. Nelson. No. 60,158; Jan. 3.
- Candelabrum. D. Dinberg. No. 60,448; Feb. 21.
- Candelabrum. S. H. Leavenworth. Nos. 60,351-4; Feb. 7.
- Candle. V. G. Gurnee. No. 61,621; Oct. 31.
- Candle. J. F. Welsh, jr. No. 61,540; Oct. 10.
- Candle holder. H. M. Bowdoin. No. 60,603; Mar. 14.
- Candle holder. L. V. Lavell. No. 61,627; Oct. 31.
- Candlestick. A. J. Flander. Nos. 61,494-7; Sept. 19.
- Candlestick. W. H. Magee. No. 61,543; Oct. 17.
- Candlestick. L. G. Unmack. No. 60,480; Feb. 21.
- Candy. F. M. Archer. No. 60,637; Mar. 21.
- Candy. L. S. Michalski. No. 61,520; Sept. 26.
- Candy bar. I. Jacobs. No. 60,147; Jan. 3.
- Candy boat. I. Kaufman. No. 61,043; June 6.
- Candy box. P. W. Quinby. No. 60,202; Jan. 10.
- Candy cone with stem. J. Goldberg. No. 60,136; Jan. 8.
- Canopy, Ceiling. M. Schleppe. No. 61,450; Sept. 5.
- Cap. A. Slotoroff. No. 60,272; Jan. 17.
- Cap. A. Slotoroff. No. 61,053; June 6.
- Cap, Novelty. J. Lackner. No. 60,795; Apr. 11.
- Car, Choo-choo. M. Macdonald. No. 60,870; Apr. 18.
- Card back. C. D. Foster. No. 60,721; Mar. 28.
- Card, Business. S. P. Foltz. No. 61,466; Sept. 12.
- Card, Christening. W. Janicki. No. 60,990; May 23.
- Card, Sample. H. F. Cohen. No. 60,397; Feb. 14.
- Cards, Back of playing. I. T. Smith. No. 61,352; Aug. 8.
- Carpet. J. H. Berry. No. 60,506; Mar. 7.
- Carpet. H. R. Sauer. No. 60,707; Mar. 21.
- Carriage hood, Baby-. H. Schaeffer. No. 61,666; Nov. 14.
- Carton. H. W. Kelsey and W. H. Baer. No. 61,311; Aug. 1.
- Carton. F. Lowy. No. 61,371; Aug. 15.
- Carton, Yeast. C. Priest. No. 60,812; Apr. 11.
- Cash registers, Casing for pocket. H. A. Dodge. No. 60,649; Mar. 21.
- Ceiling plate. I. Levy. No. 61,097; June 20.
- Ceiling plate. P. Mohrmann. No. 60,360; Feb. 7.
- Ceiling plate or similar article, Surface ornamentation for a. J. B. Beel. No. 60,847; Apr. 18.
- Chain. R. B. Benjamin. No. 61,359; Aug. 15.
- Chain or similar article, Neck. W. J. Gagnon. No. 61,533; Oct. 3.
- Chalus, Bead for ornamental neck. L. Gianera. No. 61,134; June 27.
- Chair. S. Suss. No. 61,670; Nov. 14.
- Chair. L. Weissenborn. No. 60,763; Apr. 4.
- Chair, Rocking-. C. Marra. No. 60,621; Mar. 14.
- Chandelier. T. E. Dahl. No. 61,132; June 27.
- Chandelier. S. M. Israel. No. 61,644; Nov. 7.
- Chandelier. A. J. Petersen. No. 60,629; Mar. 14.
- Chandelier. F. M. Poritz. Nos. 60,994-6; May 23.
- Chandelier body, Arm for a. F. M. Poritz. No. 61,020; May 30.
- Chandelier plate. M. Schleppe. No. 61,449; Sept. 5.
- Charm. R. P. Byers. No. 60,214; Jan. 17.
- Charm. A. E. Lemon. No. 61,096; June 20.
- Charm. N. Lieberfreund. No. 60,928; May 2.
- Charm. L. Weiner. No. 60,504; Feb. 23.
- Charm, emblem, badge, button, or article of similar nature. C. P. Woodbury. No. 61,429; Aug. 29.
- Chart, Educational. C. A. Young. No. 60,844; Apr. 11.
- Chisel, Floor. O. W. Urban. No. 60,183; Jan. 3.
- Christmas-tree ornament. G. H. Neidlinger. No. 60,201; Jan. 10.
- Cigar band. J. F. Baker. No. 60,122; Jan. 3.
- Clip. L. J. Stone. No. 60,275; Jan. 17.

Alphabetical list of designs—Continued.

- Clock. A. Kerekes. No. 61,574; Oct. 24.
 Clock. E. Perchal. No. 61,631; Oct. 31.
 Clock, ammeter, and gauge, Combination. J. Berge. No. 60,210; Jan. 17.
 Clock and music box, Combination. W. Maier. No. 61,419; Aug. 29.
 Clock case. L. E. Macomber. Nos. 60,960-1; May 16.
 Clock case. L. E. Macomber. No. 61,170; July 4.
 Clock case. F. A. Weidman. No. 61,181; July 4.
 Clock front. C. H. Smith. No. 60,273; Jan. 17.
 Clock, Novelty. C. Majewski. No. 60,796; Apr. 11.
 Clock or similar article. J. Berger. No. 60,484; Feb. 28.
 Clock, picture, and mirror frame, Combination. J. Urbanek. No. 61,217; July 11.
 Cloth and cake of soap, Combination wash. E. F. Packard. No. 60,258; Jan. 17.
 Clothes post or similar article, Cap for a. W. G. Banks. No. 60,439; Feb. 21.
 Collar. C. Kramer. No. 60,619; Mar. 14.
 Collar clasp. F. B. Byers. No. 60,123; Jan. 3.
 Comb, Back. W. S. Bechtold. Nos. 60,302-7; Feb. 7.
 Confection rack, Swivel. J. Lazerus. No. 61,168; July 4.
 Container. H. H. Raynor. No. 60,370; Feb. 7.
 Containers, Cover for. W. H. Fulper. Nos. 61,530-2; Oct. 3.
 Corset. G. L. Nickerson. No. 61,175; July 4.
 Costumer. J. T. Batts. No. 60,600; Mar. 14.
 Costumer, Child's. M. A. York. No. 61,524; Sept. 26.
 Costumer stand. J. T. Batts. No. 60,639; Mar. 21.
 Cotton piece goods. J. Leiper. No. 61,577; Oct. 24.
 Cradle chair. W. F. Silliman. No. 60,966; May 16.
 Crib cover, Baby-. D. Levy. No. 61,472; Sept. 12.
 Curtain. J. Herod. Nos. 60,538-40; Mar. 7.
 Curtain and shade bracket. G. Wonsowicz. No. 61,024; May 30.
 Cutting machine, Casing for a cloth-. M. Zawistowski. No. 60,300; Jan. 24.
 Desk. C. T. Anderson. No. 61,555; Aug. 15.
 Desk utensil—namely, a paper weight, inkstand, or similar article. M. W. Collins. No. 60,487; Feb. 28.
 Die. W. R. Gayner. No. 60,526; Mar. 7.
 Die, Topple. A. G. Saart. No. 60,575; Mar. 7.
 Dish plate or similar article. G. L. Crowell, Jr. No. 61,222; July 18.
 Display cabinet. H. Morris. No. 61,504; Sept. 19.
 Display case, Advertising. C. D. Oversmith. No. 60,465; Feb. 21.
 Display holder. A. S. Marchus. No. 60,464; Feb. 21.
 Display shape of an article of clothing. A. N. Oppenheim. No. 61,051; June 6.
 Display stand. J. Goldberg. No. 61,438; Sept. 5.
 Doily. E. J. Holzer. No. 61,739; Dec. 26.
 Doll. W. Bannon. No. 60,638; Mar. 21.
 Doll. F. Barnard. No. 60,599; Mar. 14.
 Doll. H. C. Beagary. No. 61,080; June 20.
 Doll. M. E. Bell. No. 60,641; Mar. 21.
 Doll. G. Benz. No. 61,130; June 27.
 Doll. W. F. Blaydes, jr. No. 61,618; Oct. 31.
 Doll. E. B. Card. No. 61,461; Sept. 12.
 Doll. M. Carotto. No. 61,083; June 20.
 Doll. R. Davis. Nos. 60,445-7; Feb. 21.
 Doll. R. Davis. No. 60,488; Feb. 28.
 Doll. R. Davis. No. 61,465; Sept. 12.
 Doll. E. Ellery, Jr. No. 61,013; May 30.
 Doll. J. C. Gaffney. No. 61,725; Dec. 19.
 Doll. B. Goldenberg. No. 60,530; Mar. 7.
 Doll. I. C. Gowan. No. 60,491; Feb. 28.
 Doll. C. Greenhood. Nos. 60,939-40; May 9.
 Doll. A. P. Handley. No. 61,158; July 4.
 Doll. J. A. Hayes. Nos. 61,159-60; July 4.
 Doll. T. Kidder and L. Melton. No. 61,469; Sept. 12.
 Doll. V. M. Kieffer. No. 60,727; Mar. 28.
 Doll. V. M. Kieffer. No. 61,697; Nov. 28.
 Doll. E. Kittleman. No. 61,626; Oct. 31.
 Doll. M. M. Knight. No. 60,689; Mar. 21.
 Doll. S. Kodama. No. 60,957; May 16.
 Doll. M. Koenig. No. 60,690; Mar. 21.
 Doll. M. F. Lopez. No. 60,911; Apr. 25.
 Doll. H. A. Lyon. No. 60,869; Apr. 18.
 Doll. G. F. Mills. No. 60,693; Mar. 21.
 Doll. M. Mooney. Nos. 60,695-701; Mar. 21.
 Doll. E. Moore. No. 61,628; Oct. 31.
 Doll. B. C. Neely. No. 60,157; Jan. 3.
 Doll. A. Norquist. No. 61,206; July 11.
 Doll. C. O. Oliver. No. 61,207; July 11.
 Doll. J. M. Pratt. No. 60,811; Apr. 11.
 Doll. H. V. Reader. No. 61,632; Oct. 31.
 Doll. S. Reich. No. 61,478; Sept. 12.
 Doll. M. Rogers. No. 60,373; Feb. 7.
 Doll. C. J. Ross. No. 60,501; Feb. 28.
 Doll. D. B. Savage. No. 61,608; Oct. 24.
 Doll. M. R. Schnack. No. 61,483; Sept. 12.
 Doll. F. V. Sharp. No. 61,022; May 30.
 Doll. E. M. Shawe. No. 61,052; June 6.
 Doll. A. S. Simmons. No. 61,002; May 23.
 Doll. H. F. Trowbridge. No. 60,970; May 16.
 Doll. L. F. Van Arnam. No. 61,613; Oct. 24.
 Doll. R. W. and P. N. Vanderbeek. No. 60,838; Apr. 11.
 Doll. W. B. Van Valin. No. 61,179; July 4.
 Doll. B. Weille. No. 61,635; Oct. 31.
 Doll, Baseball-player. W. B. Van Valin. No. 61,180; July 4.
 Doll or manikin. D. J. Morton. No. 61,598; Oct. 24.
 Doll or similar article, Inflatable. F. W. Dodge. Nos. 61,387-8; Aug. 22.
 Doll or statuette. A. W. Kurriss. No. 61,167; July 4.
 Doll or statuette. G. W. Sisk. No. 61,176; July 4.
 Doll, Pig. I. Kerby. No. 61,198; July 11.
 Doll, Quilted. L. S. Ahrens. No. 61,384; Aug. 22.
 Doll, Smoking. M. H. Slater. No. 61,145; June 27.
 Doll, Statue. J. G. Kaempfer. No. 61,139; June 27.
 Doll, statuette, or similar article. M. T. Mifflin. No. 61,316; Aug. 1.
 Doll, Stocking baby. J. O. Enoch. No. 61,268; July 25.
 Dress. A. Leppelman. No. 60,249; Jan. 17.
 Dress. B. H. Scottford. No. 60,269; Jan. 17.
 Dress or similar garment, Child's. A. E. Tomlinson. No. 60,590; Mar. 7.
 Dresser. E. E. Rewick. Nos. 60,759-60; Apr. 4.
 Dressing table. C. C. White. No. 61,747; Dec. 26.
 Electric fixture. T. E. Dahl. No. 60,896; Apr. 25.
 Electric fixture. T. E. Dahl. No. 61,065; June 13.
 Electric-fixture arm. T. E. Dahl. No. 61,062; June 13.
 Electric-fixture arm. J. S. Garfinkle. No. 60,231; Jan. 17.
 Electric fixtures, Arm for. T. E. Dahl. Nos. 60,897-8; Apr. 25.
 Electric fixtures, Body part for. T. E. Dahl. No. 60,899; Apr. 25.
 Electric fixtures, Body plate for. T. E. Dahl. No. 60,901; Apr. 25.
 Electric heater. G. R. Debnam, Jr. No. 61,088; June 20.
 Electric heater. H. Sieben. No. 61,728; Dec. 19.
 Electric heater. C. F. Smith and G. E. Curtiss. No. 60,968; May 16.
 Electric-light bracket. C. B. Rogers. No. 60,633; Mar. 14.
 Electric-light bracket. C. B. Rogers. No. 61,653; Nov. 7.
 Electric-light fixtures, Bottom plate for. S. M. Israel. No. 61,647; Nov. 7.
 Electric-light fixtures, Spindle for. S. M. Israel. No. 61,646; Nov. 7.
 Electric-lighting bracket. M. B. Roller. No. 61,117; June 20.
 Electric-lighting fixture. G. R. Ainsworth. No. 60,716; Mar. 28.
 Electric-lighting fixture. J. W. Gosling. Nos. 60,452-3; Feb. 21.
 Electric lights, Bell attachment for. L. A. Freedman. No. 60,290; Jan. 24.
 Electrical-fixture arm. M. H. Dworkin. Nos. 60,225-6; Jan. 17.
 Electrical-fixture bowl. M. H. Dworkin. No. 60,224; Jan. 17.
 Electrical receptacle. R. B. Benjamin. No. 61,027; June 6.
 Emblem, badge, brooch, pin, cuff button, watch fob, or similar article. C. B. Dyer. No. 61,191; July 11.
 Emblem, badge, button, or article of similar nature. E. E. Gray. No. 60,906; Apr. 25.
 Emblem, badge, button, pin, or similar article. G. B. Monk. No. 60,913; May 9.
 Emblem, badge, button, pin, watchcase. J. Mayer. No. 60,251; Jan. 17.
 Emblem, badge, or button. A. E. Chase. No. 61,151; July 4.
 Emblem, badge, or button. L. C. de Leon. No. 60,218; Jan. 17.
 Emblem, button, badge, or similar article. J. Rickemann. No. 60,815; Apr. 11.
 Emblem, button, brooch, fob, or similar article. G. R. Brockmann. No. 61,031; June 6.
 Emblem, medallion, badge, button, pin, or similar article. Fraternal. L. J. Malone. No. 61,048; June 6.
 Emblem or badge. H. E. Smart. No. 61,452; Sept. 5.
 Emblem, sign, badge, button, or similar article. C. A. Vane. No. 61,218; July 11.
 Emblematic stand. J. Hufnagel. No. 61,704; Dec. 5.
 Embroidery. E. A. Davis. Nos. 61,721-4; Dec. 19.
 Embroidery, lace, or article of similar nature. F. Hoenig. Nos. 60,987-8; May 23.
 Embroidery, Machine. M. Baldauf. No. 61,710; Dec. 12.
 Envelope band, Ornamental paper-strip. G. R. Burkhardt. No. 60,313; Feb. 7.
 Fabric. W. Buchwitz. No. 60,771; Apr. 11.
 Fabric. W. Dowling. No. 60,324; Feb. 7.
 Fabric. W. Dowling. No. 60,783; Apr. 11.
 Fabric. W. Dowling. No. 61,190; July 11.
 Fabric. G. Gegenheimer. Nos. 60,329-31; Feb. 7.
 Fabric. G. Gegenheimer. No. 60,527; Mar. 7.
 Fabric, Dress. A. Cabalka. No. 61,186; July 11.
 Fabric, paper, or similar article. E. A. Haward. No. 60,658; Mar. 21.
 Fabric, Pile. C. V. Kozlay. No. 61,677; Nov. 21.
 Fabric, Textile. E. Gaudioz. No. 60,134; Jan. 3.
 Fabric, Textile. W. G. Hutton. No. 60,146; Jan. 3.
 Fabric, Textile. C. E. Lord. Nos. 61,678-86; Nov. 21.
 Fabric wall paper, wrapping paper, or similar article. A. Davignon. No. 60,647; Mar. 21.
 Fan. E. P. Kellogg. No. 61,648; Nov. 7.
 Fancy box. S. Anhouse. No. 60,438; Feb. 21.
 Fare token. P. N. Jones. No. 60,544; Mar. 7.
 Faucet. S. Kersten. No. 60,347; Feb. 7.
 Faucet, Dispensing. C. N. Jacoby. No. 60,416; Feb. 14.
 Fern or flower dish. G. F. Saito. Nos. 60,174-5; Jan. 3.
 Film-reel holder. G. F. Adams. No. 60,846; Apr. 18.
 Finger ring. G. A. Alsopp. No. 60,949; May 16.
 Finger ring. J. C. Kahn and S. W. Mills. No. 61,623; Oct. 31.

Alphabetical list of designs—Continued.

- Finger ring. A Klein. Nos. 60,456-7; Feb. 21.
 Finger ring. M. Kreiswirth and S. Groner. Nos. 60,909-10; Apr. 25.
 Finger ring. D. Shiman. No. 61,280; July 25.
 Finger ring. P. Phoele. Nos. 61,397-8; Aug. 22.
 Finger ring. M. Weinberg. No. 61,700; Nov. 28.
 Finger ring or similar article. C. L. Trout. No. 61,402; Aug. 22.
 Fire extinguishers, Bottle for. W. C. Hickox. No. 60,143; Jan. 3.
 Fire extinguishers, Fluid container for. H. H. Boyce. No. 60,511; Mar. 7.
 Fishing reel. J. M. Lipes. No. 60,867; Apr. 18.
 Fixture arm, Electric. J. S. Garfinkle. No. 60,614; Mar. 14.
 Flag. C. G. Allan. No. 61,554; Oct. 24.
 Flag. H. C. A. Bowman. No. 61,082; June 20.
 Flag. S. Gadoski. No. 61,437; Sept. 5.
 Flag. W. S. Ragsdale. No. 60,813; Apr. 11.
 Flag for Ireland. P. D. Riordan. No. 61,253; July 18.
 Flag of the Ethiopian race. J. Cannon. No. 60,934; May 9.
 Flag or banner. D. W. Chandler, Jr. No. 60,894; Apr. 25.
 Flag, pennant, or similar article, Service. H. W. Waite. No. 61,128; June 20.
 Flagpole. J. E. Brown. No. 61,558; Oct. 24.
 Flagstaff table decoration, Support for a. N. P. Petersen. No. 60,295; Jan. 24.
 Flower box. A. A. Lyon. No. 60,913; Apr. 25.
 Flowerpot. D. Raymond. No. 61,448; Sept. 5.
 Flytrap. J. Bartuzel. No. 61,729; Dec. 26.
 Footwear. J. C. Evans. No. 60,785; Apr. 11.
 Footwear. H. Schwerin. No. 60,708; Mar. 21.
 Footwear. H. Schwerin. Nos. 61,382-3; Aug. 15.
 Fork and spoon, Combination. A. A. Qandee and S. G. Palmberg. No. 60,369; Feb. 7.
 Fountain. R. Sanfilippo. No. 60,918; Apr. 25.
 Fountain bowl. L. Schlesinger. No. 60,267; Jan. 17.
 Frame. A. Bootrym. No. 61,081; June 20.
 Fringe. F. W. Oehle. Nos. 61,378-9; Aug. 15.
 Gaiters. C. E. Jenkins. Nos. 60,683-4; Mar. 21.
 Game. A. S. Moeran. No. 60,694; Mar. 21.
 Game board. G. McManus. No. 60,357; Feb. 7.
 Game device, Novelty. R. C. Striker. No. 60,587; Mar. 7.
 Game, Puzzle. L. Schweikowski. No. 60,738; Mar. 28.
 Games, Chart for educational. A. Z. Baker. No. 61,434; Sept. 5.
 Garment. J. Pelt. Nos. 61,602-4; Oct. 24.
 Garment, Bifurcated. L. Goodman. No. 60,787; Apr. 11.
 Garment, Child's. L. Kuh. No. 60,958; May 16.
 Garment hanger. O. E. Denivelle. No. 60,514; Mar. 7.
 Garment hanger bracket. J. T. Batts. No. 60,640; Mar. 21.
 Garment, Outer. K. L. Powell. No. 61,212; July 11.
 Garment protector. M. S. George. No. 61,295; Aug. 1.
 Garment protector. G. K. Quinzburg. No. 60,188; Jan. 10.
 Gas burner. W. Sigeske. No. 60,271; Jan. 17.
 Gas heater. W. D. Antrim. No. 60,747; Apr. 4.
 Gas heater. J. H. Grayson. No. 60,138; Jan. 3.
 Gas heater. H. R. Humphrey. Nos. 60,241-6; Jan. 17.
 Gas heater. H. R. Humphrey. No. 60,955; May 16.
 Gas heater. H. R. Humphrey. No. 60,989; May 23.
 Gas heater. D. H. McCorkle. No. 61,395; Aug. 22.
 Gas heater. C. V. Roberts and K. C. Farnsworth. Nos. 60,172-3; Jan. 3.
 Gas heater. C. V. Roberts and K. C. Farnsworth. No. 61,277; July 25.
 Gas heater. G. F. Schmidt. No. 61,451; Sept. 5.
 Gas heater. E. Zettler. No. 61,514; Sept. 19.
 Glass article. A. J. Sanford. No. 60,706; Mar. 21.
 Glass dish. C. L. Reizenstein. Nos. 61,247-52; July 18.
 Glass dish, Transparent. R. D. Totten. No. 60,181; Jan. 3.
 Glass lighting bowl. E. A. Gillinder. No. 61,014-16; May 30.
 Glass vessel Cut. W. B. Bartley. No. 61,616; Oct. 31.
 Glove gauntlet. J. Rice. Nos. 61,479-82; Sept. 12.
 Glove gauntlet. J. Rice. No. 61,606; Oct. 24.
 Glove ornamentation. M. Lobl and R. Steinberger. Nos. 60,547-52; Mar. 7.
 Goblet, bowl, or similar article, Ornamentation for a. W. A. Reaper. No. 61,103; June 20.
 Gramophone needles, Container for. C. West. No. 61,512; Sept. 19.
 Grating. W. H. Lown. No. 61,046; June 6.
 Grating. W. H. Lown. No. 61,098; June 20.
 Grave lining. J. M. Doddridge. No. 60,126; Jan. 3.
 Grave mark. C. C. Thomas. No. 60,836; Apr. 11.
 Grave marker. H. C. Way. No. 60,712; Mar. 21.
 Grease cup and gun, Combination. H. C. Moore. No. 60,361; Feb. 7.
 Guidepost, Illuminated highway. W. T. Rogers. No. 60,735; Mar. 28.
 Gun, Grease. D. F. Fesler. No. 61,192; July 11.
 Hammock. H. Mintz. No. 60,963; May 16.
 Hand bag. M. Brill. No. 61,529; Oct. 3.
 Hand bag. L. A. Schmucker and E. R. Norling. No. 60,920; Apr. 25.
 Handkerchief, napkin, or similar article. J. Harden. Nos. 61,036-9; June 6.
 Handkerchief, napkin, or similar article of manufacture. J. Harden. Nos. 61,366-9; Aug. 15.
 Handle. F. W. Walker. No. 61,057; June 6.
 Handlebar grip. J. P. Fogarty. No. 61,657; Nov. 14.
 Hat. I. Belafsky. No. 61,617; Oct. 31.
 Hat. M. E. McCaskill. No. 60,754; Apr. 4.
 Hat creaser. S. M. Mund. No. 60,364; Feb. 7.
 Headlight. C. F. Damm. No. 60,322; Feb. 7.
 Headlight lens. J. S. Engalls. No. 60,751; Apr. 4.
 Headlight lens. J. W. Ross and W. A. Orr. No. 60,374; Feb. 7.
 Headlight lens, Automobile. I. Ambler. No. 60,717; Mar. 28.
 Headlight lens, Automobile. R. Haley. No. 61,136; June 27.
 Heater. B. L. Miller. No. 60,255; Jan. 17.
 Heater. F. A. Nieberding. No. 61,539; Oct. 10.
 Heater. E. Witzberger. No. 60,390; Feb. 7.
 Heater. E. Witzberger. No. 61,489; Sept. 12.
 Heater and open fire grate, Combination. E. C. Molby. No. 60,294; Jan. 24.
 Heater casing. S. M. and J. H. Carmean. Nos. 60,215-16; Jan. 17.
 Heater, Electric. H. C. Gordon. No. 60,337; Feb. 7.
 Heater, Electric. R. G. Ledig. No. 60,152; Jan. 3.
 Heater, Electric immersion. J. F. McCloskey. No. 60,496; Feb. 28.
 Heater, Gas. A. H. Wolff. No. 60,635; Mar. 14.
 Heaters and coolers, Pipe-coil cluster for. E. Schumacher. No. 60,176; Jan. 3.
 Heel. H. T. Mason. No. 61,474; Sept. 12.
 Heel lift, Resilient. L. M. Oakley. No. 60,366; Feb. 7.
 Heel lift, Resilient. L. M. Oakley. No. 60,945; May 9.
 Heel, Shoe. F. G. Delbon. No. 60,219; Jan. 17.
 Heel, Shoe. D. Freeman. No. 60,230; Jan. 17.
 Heel, Shoe. D. Freeman. No. 61,156; July 4.
 Helmet. B. Budweiser. No. 60,442; Feb. 21.
 Hoe, Garden. P. and M. Plantinga. No. 60,259; Jan. 17.
 Hose coupling and valve, Combination. H. Y. Norwood. No. 60,159; Jan. 3.
 Hot-water bottle. M. R. Smith. No. 60,179; Jan. 3.
 Ice-cream cone. G. T. Haines. No. 61,571; Oct. 24.
 Ice-cream cone. F. Mantell. No. 60,154; Jan. 3.
 Ice-cream, pop corn, candy, or cake. W. H. Francis. No. 61,293; Aug. 1.
 Incense burner. J. M. Lucas. No. 61,140; June 27.
 Incense burner. M. I. McConkey. No. 60,798; Apr. 11.
 Indicator. F. Jimenez. No. 60,617; Mar. 14.
 Inkstand. O. W. Eldridge. No. 60,650; Mar. 21.
 Inkwell. J. Mitz. No. 60,498; Feb. 28.
 Inkwell, calendar, and desk rack, Combination. W. H. Colby. No. 61,386; Aug. 22.
 Inseam-measuring stick. H. H. Gunkel. No. 60,139; Jan. 3.
 Iron stand, Electric. M. B. Lytle. No. 60,153; Jan. 3.
 Jar. J. E. Mace. No. 61,047; June 6.
 Jar. L. B. Newell. No. 61,505; Sept. 19.
 Jewelry—namely, pin, brooch, ring, Article of. H. Nelson. No. 60,257; Jan. 17.
 Jug. J. L. Klein. No. 61,415; Aug. 29.
 Jug, Vacuum insulated. G. P. Altenberg. No. 60,483; Feb. 28.
 Key rings, chains, necklace, Fastener for. W. A. Schuler. No. 60,268; Jan. 17.
 Kimono. F. C. Bauer. No. 60,601; Mar. 14.
 Knife and fork, Combined. W. Thomas. No. 60,589; Mar. 7.
 Knife-sharpening device. M. G. Goff. No. 61,338; Aug. 8.
 Knitted cape. J. Pelt. No. 61,276; July 25.
 Knitted fabric. T. M. Lorenzo. No. 60,368; Apr. 18.
 Knitted fabric. L. Messina. No. 61,590; Oct. 24.
 Knitted rib fabric. H. T. Ballard. No. 61,556; Oct. 24.
 Lace. M. H. Daudy. Nos. 61,733-4; Dec. 26.
 Lace. E. A. Davis. No. 61,189; July 11.
 Lace. W. Draycott. Nos. 60,220-22; Jan. 17.
 Lace. J. Draycott. No. 60,935; May 9.
 Lace. J. Draycott. No. 61,223; July 18.
 Lace. J. Langenegger. No. 61,200; July 11.
 Lace. A. Mezibow. No. 60,254; Jan. 17.
 Lace. T. Monk. No. 60,419; Feb. 14.
 Lace. S. H. Page. Nos. 60,421-3; Feb. 14.
 Lace. S. H. Page. No. 60,946; May 9.
 Lace. S. H. Page. No. 61,211; July 11.
 Lace. H. A. Phillips. No. 60,425; Feb. 14.
 Lace. H. A. Phillips. No. 60,948; May 9.
 Lace. H. A. Phillips. No. 61,246; July 18.
 Lace. G. Radford. No. 60,261; Jan. 17.
 Lace. G. Radford. No. 60,997; May 23.
 Lace. G. Radford. No. 61,689; Nov. 21.
 Lace. J. Rizzi. Nos. 60,466-9; Feb. 21.
 Lace. R. Shapiro. No. 61,401; Aug. 22.
 Lace. T. H. Smedley. No. 61,177; July 4.
 Lace, Embroidered. J. Aemiseger. No. 60,972; May 23.
 Lace, Embroidered. H. Schwarber. No. 60,634; Mar. 14.
 Lace, Venice. J. Loopo. No. 60,691; Mar. 21.
 Lamp. H. A. Best. No. 60,950; May 16.
 Lamp. W. M. Bradley. No. 60,605; Mar. 14.
 Lamp. G. L. Hopping. No. 60,345; Feb. 7.
 Lamp. S. M. Israel. No. 60,907; Apr. 25.
 Lamp. S. Issing. No. 60,726; Mar. 28.
 Lamp. J. R. Kerns. No. 60,687; Mar. 21.
 Lamp. H. M. Knudsen. No. 60,618; Mar. 14.
 Lamp. J. A. Lipscomb. No. 61,502; Sept. 19.
 Lamp. C. Lyndon. No. 61,418; Aug. 29.
 Lamp. G. J. Romulus. No. 61,118; June 20.

Alphabetical list of designs—Continued.

- Lamp. V. Walsh. No. 60,711; Mar. 21.
 Lamp. H. H. Wolter. Nos. 61,526-7; Sept. 26.
 Lamp and phonograph, Combined. A. J. Burns. No. 61,291; Aug. 1.
 Lamp and talking-machine casing, Combined. J. Hara-sym. No. 60,864; Apr. 18.
 Lamp, Automobile. J. E. Allen. No. 60,597; Mar. 14.
 Lamp, Automobile. H. H. Norton. No. 60,755; Apr. 4.
 Lamp base or similar article. E. Hofmann. No. 60,725; Mar. 28.
 Lamp base, Portable. A. Bostroem. Nos. 61,361-2; Aug. 15.
 Lamp base, Portable. T. L. Ryan. No. 61,331; Aug. 1.
 Lamp base, Portable. S. R. Schwartz and A. Bostroem. No. 61,122; June 20.
 Lamp casing or similar article. W. C. Augenstein. No. 60,598; Mar. 14.
 Lamp casing, Signal-. R. J. McDonough. No. 60,420; Feb. 14.
 Lamp, Desk. S. Dulczewski. No. 61,133; June 27.
 Lamp, Electric. H. W. Barrows. No. 61,638; Nov. 7.
 Lamp, Electric. N. Nelson. No. 60,623; Mar. 14.
 Lamp fixture. A. J. D. Ohm. No. 61,317; Aug. 1.
 Lamp fixtures, Arm for. A. J. D. Ohm. No. 61,318; Aug. 1.
 Lamp, Floor. J. Gerschall. No. 61,412; Aug. 29.
 Lamp lens, Signal-. E. S. Preston. No. 61,347; Aug. 8.
 Lamp or other pedestal. F. Roettges. Nos. 61,651-2; Nov. 7.
 Lamp or other shade. F. Roettges. No. 61,650; Nov. 7.
 Lamp, Portable. F. S. Crowell. No. 60,895; Apr. 25.
 Lamp, Portable. H. E. Rainaud. Nos. 60,570-1; Mar. 7.
 Lamp shade. F. Roettges. No. 61,104; June 20.
 Lamp shade, globe, or similar article. H. D. McFaddin. No. 61,242; July 18.
 Lamp shade, or similar article. W. H. Fulper. No. 61,411; Aug. 29.
 Lamp shade, Surface ornamentation for a. G. V. Strahan and F. W. Mathew. Nos. 60,475-8; Feb. 21.
 Lamp stand and phonograph, Combined. M. Rnsnak. No. 61,120; June 20.
 Lamp stand and smoking set, Combined. S. M. Israel. No. 61,018; May 30.
 Lamp stand, Combination. L. J. Ripich. No. 61,330; Aug. 1.
 Lamp standard. E. B. Pike. Nos. 61,320-3; Aug. 1.
 Lamp standard. E. B. Pike. Nos. 61,507-8; Sept. 19.
 Lamp, Street. J. F. Ne Page. No. 60,944; May 9.
 Lamps, Duplex socket for electric. S. M. Knapp. No. 60,350; Feb. 7.
 Lamps, Frame ring for electric. S. M. Israel. No. 61,645; Nov. 7.
 Lavatory fixture. S. S. Budlong. No. 60,396; Feb. 14.
 Lavatory fixture. R. B. Hibbard. No. 60,659; Mar. 21.
 Leather. C. Brandt. Nos. 60,211-12; Jan. 17.
 Leather. J. R. Hampel. Nos. 60,237-8; Jan. 17.
 Leather, skin, fabric, or article of similar nature. P. Silverman. No. 61,610; Oct. 24.
 Leather, wall paper, or similar article of manufacture. H. G. Wurm. No. 61,184; July 4.
 Legging. E. M. Witherell. No. 60,595; Mar. 7.
 Lens. I. Berkowitz. Nos. 61,028-9; June 6.
 Lens. F. Piaszek. Nos. 61,521-3; Sept. 26.
 Lens for headlights. O. C. Eckel. No. 60,449; Feb. 21.
 Lens plate, Signal. D. L. Johnson. No. 61,443; Sept. 5.
 Light diffuser. O. M. Otto. Nos. 61,209-10; July 11.
 Light fixture. E. L. Brunswick and H. Christensen. Nos. 61,642-3; Nov. 7.
 Light fixture. A. G. Nygren. No. 61,377; Aug. 15.
 Light fixture. J. Warmuth. No. 61,534; Oct. 3.
 Light, Parking. H. H. Taylor. No. 61,215; July 11.
 Light stand. H. Christensen and E. L. Brunswick. Nos. 61,639-41; Nov. 7.
 Lighting bowl, Glass. E. A. Gillinder. Nos. 60,332-5; Feb. 7.
 Lighting bracket back plate. M. B. Roller. Nos. 61,105-6; June 20.
 Lighting bulb. C. A. Campbell. No. 60,925; May 2.
 Lighting fixture. H. C. Adam. Nos. 61,076-8; June 20.
 Lighting fixture. H. C. Adam. No. 61,147; July 4.
 Lighting fixture. P. I. Ansoorge. No. 61,515; Sept. 26.
 Lighting fixture. W. T. Blackwell. No. 60,308; Feb. 7.
 Lighting fixture. W. T. Blackwell. Nos. 60,310-11; Feb. 7.
 Lighting fixture. W. T. Blackwell. No. 61,360; Aug. 15.
 Lighting fixture. G. Cawthron. No. 61,408; Aug. 29.
 Lighting fixture. T. Dahl. No. 60,981; May 23.
 Lighting fixture. H. W. Grossman. No. 61,500; Sept. 19.
 Lighting fixture. I. Krantz. Nos. 60,458-62; Feb. 21.
 Lighting fixture. F. K. Maerz. No. 61,141; June 27.
 Lighting fixture. G. Meier. No. 61,664; Nov. 14.
 Lighting fixture. G. Meier. No. 61,743; Dec. 26.
 Lighting fixture. P. Mohrmann. Nos. 60,560-2; Mar. 7.
 Lighting fixture. T. J. Nelson. No. 60,875; Apr. 18.
 Lighting fixture. R. C. Pfeager. No. 60,964; May 16.
 Lighting fixture. M. B. Roller. Nos. 61,109-14; June 20.
 Lighting fixture. H. Shardlow. Nos. 60,921-2; Apr. 25.
 Lighting fixture. A. Stark. Nos. 60,381-2; Feb. 7.
 Lighting fixture. A. Ullman. No. 60,182; Jan. 3.
 Lighting fixture. F. Yokel. No. 60,392; Feb. 7.
 Lighting fixture. F. Yokel. No. 61,431; Aug. 29.
 Lighting-fixture arm. M. B. Bowen. Nos. 60,975-6; May 23.
 Lighting-fixture arm. F. S. Crowell. No. 61,516; Sept. 26.
 Lighting-fixture arm. T. E. Dahl. No. 61,068; June 13.
 Lighting-fixture arm. H. W. Grossman. No. 61,499; Sept. 19.
 Lighting-fixture arm. L. Levine. No. 60,959; May 16.
 Lighting-fixture arm. L. Levine. No. 61,201; July 11.
 Lighting-fixture arm. A. J. D. Ohm. No. 60,624; Mar. 14.
 Lighting-fixture arm. A. J. Petersen. Nos. 60,626-8; Mar. 14.
 Lighting-fixture arm. F. M. Poritz. No. 61,509; Sept. 19.
 Lighting-fixture arm. A. W. Reiser. No. 60,163; Jan. 3.
 Lighting-fixture arm. A. W. Reiser. No. 60,167; Jan. 3.
 Lighting-fixture arm. A. M. Rodems. No. 61,649; Nov. 7.
 Lighting-fixture arm. M. B. Roller. Nos. 61,115-16; June 20.
 Lighting-fixture arm. H. A. Safion and M. Geringer. No. 61,417; Aug. 29.
 Lighting-fixture arm. H. A. Safion and M. Geringer. No. 61,426; Aug. 29.
 Lighting-fixture arm. A. Ullman. No. 60,385; Feb. 7.
 Lighting-fixture arm. A. Ullman. No. 61,655; Nov. 7.
 Lighting-fixture band. T. E. Dahl. No. 61,064; June 13.
 Lighting-fixture body. T. Dahl. No. 60,983; May 23.
 Lighting-fixture bowl. A. W. Reiser. No. 60,170; Jan. 3.
 Lighting-fixture bowl. A. W. Reiser. No. 60,296; Jan. 24.
 Lighting-fixture bracket. A. J. D. Ohm. No. 60,625; Mar. 14.
 Lighting-fixture bracket back. T. E. Dahl. No. 61,061; June 13.
 Lighting-fixture canopy. T. Dahl. No. 60,982; May 23.
 Lighting-fixture canopy. T. E. Dahl. No. 61,072; June 13.
 Lighting-fixture cast arm. A. W. Reiser. No. 60,166; Jan. 3.
 Lighting fixture, Electric portable. A. Steffen. No. 61,427; Aug. 29.
 Lighting fixture frame. F. K. Maerz. No. 61,142; June 27.
 Lighting-fixture globe. L. B. London. No. 61,202; July 11.
 Lighting-fixture globe. A. W. Reiser. No. 60,165; Jan. 3.
 Lighting-fixture globe. A. W. Reiser. No. 60,169; Jan. 3.
 Lighting fixture, Globe for. T. E. Dahl. No. 61,034; June 6.
 Lighting-fixture link. A. W. Reiser. No. 60,161; Jan. 3.
 Lighting-fixture loop. T. Dahl. No. 61,011; May 30.
 Lighting-fixture loop. T. E. Dahl. No. 61,059; June 13.
 Lighting-fixture loop. T. E. Dahl. No. 61,070; June 13.
 Lighting-fixture loop. B. Newland. No. 61,375; Aug. 15.
 Lighting-fixture loop. A. W. Reiser. No. 60,162; Jan. 3.
 Lighting-fixture member or similar article. B. Steiger. No. 60,502; Feb. 28.
 Lighting-fixture pedestal. F. Roettges. Nos. 61,510-11; Sept. 19.
 Lighting-fixture pedestal. E. C. Ruttenberg. No. 61,654; Nov. 7.
 Lighting-fixture plate. T. E. Dahl. No. 61,063; June 13.
 Lighting-fixture plate. M. B. Roller. Nos. 61,107-8; June 20.
 Lighting fixture, Principal central body of a. H. C. Adam. No. 61,146; July 4.
 Lighting-fixture shade. H. E. Rainaud. No. 60,569; Mar. 7.
 Lighting-fixture shade. A. W. Reiser. No. 60,164; Jan. 3.
 Lighting-fixture shade. A. W. Reiser. No. 60,168; Jan. 3.
 Lighting-fixture shade frame. T. Dahl. No. 60,984; May 23.
 Lighting-fixture tassel. B. Newland. No. 61,374; Aug. 15.
 Lighting fixtures, Arm for. W. B. Goddard. No. 61,337; Aug. 8.
 Lighting fixtures, Arm for. W. B. Goddard. No. 61,701; Dec. 5.
 Lighting fixtures, Arm for. W. B. Goddard. No. 61,737; Dec. 26.
 Lighting fixtures, Band for. T. E. Dahl. No. 61,073; June 13.
 Lighting fixtures, Body part for. T. E. Dahl. Nos. 60,903-4; Apr. 25.
 Lighting fixtures, body plate for. T. E. Dahl. No. 60,902; Apr. 25.
 Lighting fixtures, Bowl for. H. A. Ross and O. Koehler. No. 61,350; Aug. 8.
 Lighting fixtures, Chandelier for. F. S. Crowell. Nos. 61,719-20; Dec. 19.
 Lighting fixtures, Candle cup for. T. E. Dahl. No. 61,060; June 13.
 Lighting fixtures, Candle cup for. T. E. Dahl. No. 61,071; June 13.
 Lighting fixtures, Canopy for. T. E. Dahl. No. 60,900; Apr. 25.
 Lighting fixtures, Canopy for. L. R. Wellman. No. 60,280; Jan. 17.
 Lighting fixtures, Double fixture loop for. A. W. Reiser. No. 60,265; Jan. 17.
 Lighting fixtures, Electric arm for. T. E. Dahl. Nos. 61,066-7; June 13.
 Lighting fixtures, Husk for. R. F. Lindemann. No. 60,463; Feb. 21.
 Lighting fixtures, Husk for. J. W. Schulze. No. 61,279; July 25.
 Lighting fixtures, Pan for candle cups for. T. E. Dahl. No. 61,069; June 13.
 Lighting fixtures, Panel for. G. Meier. No. 61,744; Dec. 26.

Alphabetical list of designs—Continued.

- Lighting fixtures, Pedestal for. F. Roettges. Nos. 61,258-63; July 18.
 Lighting fixtures, Pedestal for. F. Roettges. No. 61,705; Dec. 5.
 Lighting fixtures, Pedestal for. F. Roettges. Nos. 61,707-9; Dec. 5.
 Lighting fixtures, Plate for wall brackets for. T. Dahl. No. 61,188; July 11.
 Lighting fixtures, Shade for. F. Roettges. Nos. 61,254-7; July 18.
 Lighting fixtures, Shade for. F. Roettges. No. 61,264; July 18.
 Lighting fixtures, Shade for. F. Roettges. No. 61,706; Dec. 5.
 Lighting fixtures, Shade for. H. A. Ross and O. Koehler. No. 61,349; Aug. 8.
 Lighting fixtures, Shower pan for. P. Mohrmann. No. 60,873; Apr. 18.
 Lighting fixtures, Standard for. J. W. Gosling. No. 61,226; July 18.
 Lighting fixtures, Wall bracket for. T. Dahl. No. 61,187; July 11.
 Linen, Flat. H. Gould. No. 61,620; Oct. 31.
 Linoleum, oilcloth, or floor covering. C. F. Humphreys. Nos. 60,402-15; Feb. 14.
 Linoleum, oilcloth, or floor covering. C. F. Humphreys. Nos. 60,678-80; Mar. 21.
 Linoleum, oilcloth, or floor covering. H. S. Humphreys. Nos. 60,681-2; Mar. 21.
 Linoleum, oilcloth, or floor covering. C. M. Post. Nos. 60,426-7; Feb. 14.
 Linoleum, oilcloth, or floor covering. C. M. Post. No. 60,703; Mar. 21.
 Lock casing. S. Segal. No. 60,379; Feb. 7.
 Lubricant-dispensing apparatus. W. E. Keesee. No. 61,468; Sept. 12.
 Manikin. J. E. Lester. No. 61,471; Sept. 12.
 Mat, Grass. W. T. Case. Nos. 60,774-6; Apr. 11.
 Match safe. B. Valenzuela. No. 60,592; Mar. 7.
 Match stand and ash tray, Combined. A. W. Rosen. No. 61,119; June 20.
 Mattress ticking or similar article of manufacture. E. G. Meyers. Nos. 60,930-31; May 2.
 Mattress ticking or similar article of manufacture. E. G. Meyers. No. 61,049; June 6.
 Mausoleum. S. V. Graves. No. 60,531; Mar. 7.
 Measuring instrument for draftsman's use. B. J. Henley. No. 60,493; Feb. 28.
 Medicinal tablet. J. H. Lane. No. 60,248; Jan. 17.
 Memorandum stand. S. Jaffe. No. 61,163; July 4.
 Menu cover. E. P. Kellogg. No. 61,624; Oct. 31.
 Meter casing, Motor-. G. N. Polales. No. 60,260; Jan. 17.
 Mirror or picture frame. C. Aichberger. No. 61,673; Nov. 21.
 Mirror or similar article, Frame for. J. Fischer. No. 60,611; Mar. 14.
 Mirror, Wrist. S. Harrold. No. 61,702; Dec. 5.
 Mirrorscope, parking light, and direction indicator, Combination. W. P. Hammond. No. 61,195; July 11.
 Money bag. W. M. Przybyla. No. 61,421; Aug. 29.
 Monument. H. Platt. No. 61,144; June 27.
 Motor casing and supporting stand, Combination. W. E. Jensen. No. 60,865; Apr. 18.
 Motor-vehicle signal. R. A. Finis. No. 60,227; Jan. 17.
 Musical instrument. S. Makay. No. 61,688; Nov. 21.
 Napkin. E. P. Kellogg. No. 61,625; Oct. 31.
 Necktie holder. H. S. Marks. No. 60,155; Jan. 3.
 Netted fabric. H. F. Betke. No. 61,385; Aug. 22.
 Newspaper rack. R. C. Faust. No. 61,736; Dec. 26.
 Nutcracker and bottle opener, Combined. B. Lutsky. No. 60,929; May 2.
 Nutcracker and bowl, Combined. F. C. Baker. No. 60,394; Feb. 14.
 Oil bottle, Olive-. A. Ritterbeck. No. 61,380; Aug. 15.
 Oil can. R. Haskell. No. 60,342; Feb. 7.
 Oil-dispensing apparatus, Name plate for. W. C. Mac-Millen. No. 61,713; Dec. 12.
 Oil-dispensing device. W. T. Hatmaker. No. 60,189; Jan. 10.
 Oven. B. E. Meacham. No. 60,359; Feb. 7.
 Oven, Automatic electric bake. J. C. Woodson. No. 60,186; Jan. 3.
 Oven, Bake. F. W. De Luchi. No. 60,125; Jan. 3.
 Overblouse and sash, Combined. I. Ash. No. 60,121; Jan. 3.
 Padding. J. P. Hooper. No. 61,137; June 27.
 Panel, Furniture. E. E. Rewick. No. 60,761; Apr. 4.
 Paper. C. H. Havemeyer. Nos. 60,535-7; Mar. 7.
 Paper. C. H. Havemeyer. Nos. 61,389-91; Aug. 22.
 Paper doll. F. Benson. Nos. 60,208-9; Jan. 17.
 Paper for checks, drafts, or negotiable instruments, Safety. J. F. Shoemaker. No. 61,332; Aug. 1.
 Paper, Ornamental. C. H. Havemeyer. No. 61,040; June 6.
 Paper or similar article. F. Javal. No. 61,270; July 25.
 Paper or similar article. F. Javal. No. 61,413; Aug. 29.
 Paper or similar article of manufacture. F. J. M. Miles. No. 61,475; Sept. 12.
 Paper, Safety. C. Kres. Nos. 61,165-6; July 4.
 Paper, Safety. C. Kres. No. 61,199; July 11.
 Paper, Safety. F. Meyer. Nos. 61,173-4; July 4.
 Paper, Safety. F. Meyer. No. 61,205; July 11.
 Paper, Safety. F. Meyer. No. 61,275; July 25.
 Paper, Shelf. E. Karfiol. No. 61,370; Aug. 15.
 Paper, Wall. E. Ericson. No. 61,436; Sept. 5.
 Paper, Wall. M. B. Knight. No. 61,575; Oct. 24.
 Paper, Wall. P. K. Wagner. No. 61,634; Oct. 31.
 Paper weight. A. Dlouhy. No. 60,515; Mar. 7.
 Paper weight. C. Miroff. No. 60,872; Apr. 18.
 Paper weight. H. A. Ross. No. 61,400; Aug. 22.
 Paper weight. R. X. Tuttle. No. 60,887; Apr. 18.
 Paper weight, cigar cutter, and flag stand, Combined. J. Gossner. No. 61,339; Aug. 8.
 Parking light. A. R. Gross. No. 61,738; Dec. 26.
 Pen fountain. J. L. Adams. No. 60,924; May 2.
 Pen, Fountain. W. S. Gerts. No. 60,283; Jan. 17.
 Pen, Writing. M. Jones. No. 61,041; June 6.
 Pencil. F. J. Terrell. No. 60,479; Feb. 21.
 Pencil cap, Propel. W. M. Saunders. No. 61,699; Nov. 28.
 Pencil case. J. B. Mason, Jr. No. 60,192; Jan. 10.
 Pencils, Display case for. J. B. Mason, Jr. No. 60,193; Jan. 10.
 Pendant. E. Cody. No. 61,032; June 6.
 Pendulet. J. W. Schulze. No. 60,893; Apr. 18.
 Pennant. R. D. Turrentine. No. 61,125; June 20.
 Pennant or similar article, Doll-shaped. L. B. Carter. No. 60,773; Apr. 11.
 Phonograph and lamp stand, Combined. S. Trustman. No. 61,216; July 11.
 Phonograph cabinet. J. S. Clingman. Nos. 61,560-6; Oct. 24.
 Phonograph cabinet. F. Cummings. No. 60,951; May 16.
 Phonograph cabinet. B. H. Dietz and A. E. Hansen. No. 60,648; Mar. 21.
 Phonograph cabinet. C. Hine. No. 61,467; Sept. 12.
 Phonograph cabinet. C. Hine. No. 61,501; Sept. 19.
 Phonograph cabinet. W. B. Hollingshead. No. 60,953; May 16.
 Phonograph cabinet. L. MacLachlan. No. 61,203; July 11.
 Phonograph cabinet. W. H. Miller. No. 61,345; Aug. 8.
 Phonograph cabinet. W. Millington. Nos. 61,591-7; Oct. 24.
 Phonograph cabinet. J. Wolff. No. 60,594; Mar. 7.
 Phonograph cabinet. J. Wolff. No. 61,183; July 4.
 Phonograph cabinet. E. Zelony. No. 60,845; Apr. 11.
 Phonograph table. F. G. Mayer. No. 61,344; Aug. 8.
 Photographic tablet. V. H. Emerson. No. 60,521; Mar. 7.
 Photographic mount. C. F. Merriam. No. 61,714; Dec. 12.
 Picture and mirror frame. J. Urbanek. Nos. 61,126-7; June 20.
 Picture frame. L. Kuczynski. No. 60,247; Jan. 17.
 Picture frame. E. Maiglow. No. 60,355; Feb. 7.
 Picture frame. J. Srdos. No. 60,742; Mar. 28.
 Picture mount. S. E. Butler. No. 60,485; Feb. 28.
 Picture-screen support, Portable motion-. P. S. Ponon. Nos. 61,324-5; Aug. 1.
 Pictures and mirrors, Frame for. H. Peterson. No. 60,499; Feb. 28.
 Pin. H. W. Fishel. Nos. 60,857-63; Apr. 18.
 Pin and hairpin holder, Combined. G. Kahn. No. 61,307; Aug. 1.
 Pin, brooch, bracelet, finger ring, or similar article. S. Kleinman. No. 60,791; Apr. 11.
 Pin, brooch, bracelet, finger ring, or similar article. S. Kleinman. No. 60,991; May 23.
 Pin, brooch, or ring. L. Rosenthal. No. 60,500; Feb. 28.
 Pincushion. C. E. Willson. No. 61,525; Sept. 26.
 Pincushion, Doll. M. M. Farrell. No. 61,153; July 4.
 Pin or badge. C. M. Graham. No. 60,232; Jan. 17.
 Pin, Stick. A. T. Page. No. 61,600; Oct. 24.
 Pipe, Smoker's. I. S. Barnett. No. 60,505; Mar. 7.
 Pipe, Tobacco. J. K. Kahookano. No. 61,660; Nov. 14.
 Pitcher. A. J. Sanford. No. 60,378; Feb. 7.
 Plaque. A. Ingelsky. No. 60,454; Feb. 21.
 Plaque. H. W. Whipple. No. 61,219; July 11.
 Plate, Flower-pattern. M. L. Buckley. No. 60,213; Jan. 17.
 Plate or similar article. E. M. Bottome. Nos. 60,768-70; Apr. 11.
 Plate or similar article. E. M. Bottome. Nos. 60,890-93; Apr. 25.
 Plate or similar article. L. H. Bown. No. 60,441; Feb. 21.
 Plate or similar article. M. M. Engelhardt. No. 60,489; Feb. 28.
 Plate or similar article. J. E. Goodwin. Nos. 61,296-301; Aug. 1.
 Plate or similar article. H. Guenthermann. No. 61,712; Dec. 12.
 Plate or similar article. W. D. Haviland. Nos. 61,439-40; Sept. 5.
 Plate or similar article. C. Klenk. No. 60,688; Mar. 21.
 Plate or similar article. C. Klenk. No. 61,044; June 6.
 Plate or similar article. T. Kotato. Nos. 61,227-41; July 18.
 Plate or similar article. T. Kotato. No. 61,342; Aug. 8.
 Plate or similar article. C. A. May. No. 61,099; June 20.
 Plate or similar article. E. J. Ridgway. No. 61,607; Oct. 24.
 Plate, Step. F. H. Stanwood. No. 60,885; Apr. 18.
 Plug cap, Attachment. H. W. Appleton. Nos. 60,284-5; Jan. 24.
 Poker chip. G. H. Harris. No. 61,340; Aug. 3.
 Pot, Paste. E. E. Galle. No. 60,401; Feb. 14.

- Powder, Carton for face. M. Robins. No. 60,372; Feb. 7.
 Powder container. C. S. Humphrey. No. 60,190; Jan. 10.
 Powder container. C. S. Humphrey. No. 61,442; Sept. 5.
 Protective cap. G. M. Marr. No. 60,356; Feb. 7.
 Puzzle or game board. J. Antiga y Escobar. No. 60,450; Feb. 21.
 Radiator cap. E. R. Armstrong. No. 60,187; Jan. 10.
 Radiator cap. H. A. Blackwell and F. P. Myers. No. 60,309; Feb. 7.
 Radiator cap. E. T. Curran. No. 60,779; Apr. 11.
 Radiator cap. A. Kopperud. No. 61,698; Nov. 28.
 Radiator cap. A. L. McGregor. No. 60,871; Apr. 18.
 Radiator cap. H. S. Pardee, J. A. Dewire, and J. W. Suporter. No. 60,878; Apr. 18.
 Radiator cap. L. Roth. No. 60,375; Feb. 7.
 Radiator cap. H. W. Timothy. No. 60,837; Apr. 11.
 Radiator cap. I. L. Wolkow. No. 60,391; Feb. 7.
 Radiator cap and temperature indicator, Combined. E. T. Curran. No. 60,749; Apr. 4.
 Radiator-cap ornament. W. M. Rolph. No. 61,348; Aug. 8.
 Radiator cap, Ornament for a. S. de Kosenko. No. 61,045; June 6.
 Radiator section, Gas-. L. Cinq-Mars. No. 60,486; Feb. 28.
 Radiopanel, Instrument mount for. A. P. Morgan. No. 60,362; Feb. 7.
 Railways, Passenger-loading platform for street. A. G. Ray. No. 60,572; Mar. 7.
 Range, Automatic electric. F. F. Forshee. No. 60,128; Jan. 3.
 Range, Electric. F. F. Forshee. No. 60,127; Jan. 3.
 Range, Gas. H. W. O'Dowd. Nos. 60,756-8; Apr. 4.
 Razor and blade holder, Combined. J. E. Drew. No. 60,325; Feb. 7.
 Razors, Case for safety. H. J. Farrington. No. 60,651; Mar. 21.
 Razors, Case for safety. J. B. Rattray. No. 60,262; Jan. 17.
 Razors, Handle for safety. E. R. Wharton. Nos. 60,435-6; Feb. 14.
 Receptacle. P. Mohrmann. No. 61,346; Aug. 8.
 Receptacle, Display collar for a. W. Boucher, Jr. No. 60,440; Feb. 21.
 Reflector heater. E. Witzberger. No. 61,672; Nov. 14.
 Refrigerating-machine casing or frame. G. R. Jarman. No. 61,094; June 20.
 Refrigerator, Iceless. G. A. Amato. No. 61,009; May 30.
 Ribbon or narrow fabric. D. C. Frank. No. 60,228; Jan. 17.
 Ring. C. W. Bailey. No. 61,555; Oct. 24.
 Ring. C. J. Dieges. No. 61,035; June 6.
 Ring. V. A. Gebhardt. No. 61,726; Dec. 19.
 Ring. W. G. Ginder. No. 61,194; July 11.
 Ring. T. M. Obsbourn. No. 60,993; May 23.
 Ring. F. W. Riehl. No. 61,329; Aug. 1.
 Ring. J. B. Ullman. No. 61,354; Aug. 8.
 Ring. A. Verber. Nos. 61,054-5; June 6.
 Ring. A. Verber. No. 61,455; Sept. 5.
 Ring. A. Verber. Nos. 61,486-7; Sept. 12.
 Ring, badge, emblem, pin, or similar article, Finger. G. E. Steinbrenner. No. 61,123; June 20.
 Ring, Class. G. A. Meell. No. 61,446; Sept. 5.
 Ring, Finger. J. M. Benison. No. 61,460; Sept. 12.
 Ring, Finger. W. E. Blindt. No. 60,602; Mar. 14.
 Ring, Finger. S. Glaser. No. 60,985; May 23.
 Ring, Finger. J. Kreisler. No. 60,418; Feb. 14.
 Ring, Finger. J. Kreisler. No. 60,495; Feb. 28.
 Ring, Finger. F. Milhening. No. 61,050; June 6.
 Ring, Finger. D. Ornstein. No. 61,208; July 11.
 Ring, Finger. M. Weinberg. No. 61,614; Oct. 24.
 Ring, fob, scarf pin, or similar article. J. and T. Yappelli. No. 61,129; June 20.
 Ring gauge. C. A. Ford. No. 60,612; Mar. 14.
 Ring or similar article. M. Bauman. No. 61,058; June 13.
 Ring or similar article. J. L. Herzog. No. 61,573; Oct. 24.
 Ring or similar article. J. W. Mayer. No. 60,252; Jan. 17.
 Ring or similar article. J. W. Mayer. No. 60,559; Mar. 7.
 Ring or similar article. J. W. Mayer. No. 60,797; Apr. 11.
 Ring or similar article. J. W. Mayer. Nos. 60,914-5; Apr. 25.
 Ring or similar article. J. W. Mayer. Nos. 61,171-2; July 4.
 Ring or similar article. J. W. Mayer. No. 61,274; July 25.
 Ring or similar article. J. W. Mayer. No. 61,319; Aug. 1.
 Ring or similar article. J. W. Mayer. No. 61,372; Aug. 15.
 Ring or similar article of manufacture. M. Seiger. No. 61,717; Dec. 12.
 Ring, pin, or article of similar nature. F. Carl. No. 61,559; Oct. 24.
 Ring, Wedding. C. B. Namiot. No. 61,373; Aug. 15.
 Robe, Lady's traveling. D. C. Harris. No. 60,341; Feb. 7.
 Roofing element. N. Z. Butterick. No. 61,363; Aug. 15.
 Roundabout. W. C. Lehmen. No. 60,191; Jan. 10.
 Rubber boot or shoe sole. E. C. Heilhecker. No. 61,017; May 30.
 Rubber bottle nipples and soothers, Package for. J. P. Richards. No. 60,632; Mar. 14.
 Rubber footwear. J. F. Gaken. No. 60,524; Mar. 7.
 Rubber heel. R. Caterini. No. 60,315; Feb. 7.
 Rubber heel. O. Eick. No. 60,326; Feb. 7.
 Rubber heel. A. A. Glidden and L. E. Best. No. 60,451; Feb. 21.
 Rubber heel. F. Hornquist. No. 60,954; May 16.
 Rubber heel. J. C. Krieg and F. Fishbaugh. No. 61,519; Sept. 26.
 Rubber heel. G. F. Quinn. No. 60,428; Feb. 14.
 Rubber heel. D. M. Todd. No. 61,454; Sept. 5.
 Rubber heel. G. W. Watson. No. 61,488; Sept. 12.
 Rubber-heel tread. G. L. Spencer. No. 60,473; Feb. 21.
 Rubber mat. H. Joseph. No. 61,042; June 6.
 Rubber sole. D. M. Todd. No. 61,453; Sept. 5.
 Rubber sole pad for boots and shoes, India-. W. W. Phillips. No. 60,810; Apr. 11.
 Rug. J. Enis. No. 60,784; Apr. 11.
 Rug. G. M. Fauser. Nos. 60,936-7; May 9.
 Rug. M. Feldman. Nos. 60,552-5; Mar. 21.
 Rug. M. Feldman. No. 61,569; Oct. 24.
 Rug. W. M. Ferguson. Nos. 60,854-6; Apr. 18.
 Rug. F. A. Haas. No. 60,233; Jan. 17.
 Rug. G. J. Stengel. No. 60,474; Feb. 21.
 Rug. A. H. Waldo. Nos. 61,004-8; May 23.
 Rug, Wool fiber. W. T. Case. No. 60,777; Apr. 11.
 Sadiron holder. D. Moskowitz. No. 61,727; Dec. 19.
 Scale frame. W. F. Stimpson. No. 61,546; Oct. 17.
 Scale, Computing. G. M. Ludlow. No. 61,394; Aug. 22.
 Scarfin, button, badge, or similar article. S. M. MacDowell. No. 60,731; Mar. 28.
 Scarf, Table. J. Wachtel. Nos. 60,839-40; Apr. 11.
 Seal, medallion, button, and scarf pin. E. A. Marsh. No. 60,992; May 23.
 Seat. E. E. Rewick. No. 60,762; Apr. 4.
 Sewing cabinet. T. C. Nichols. No. 61,599; Oct. 24.
 Sewing cabinet. F. Schoeck. No. 60,965; May 16.
 Sewing-machine cabinet. O. A. Jiranek. No. 60,789; Apr. 11.
 Shade and curtain fixture. G. M. Clemetson. No. 60,124; Jan. 3.
 Shade frame, Art-metal. A. Steffen. No. 61,173; July 4.
 Shade-roller holder. J. Yuniwicz. No. 60,745; Mar. 28.
 Shade support and curtain hanger, Combined. C. J. Weyman. No. 60,744; Mar. 28.
 Shaving cabinet. H. L. Swogger. No. 61,545; Oct. 17.
 Shirt. M. Orloff. No. 60,877; Apr. 18.
 Shoe. A. Rotonto. No. 60,917; Apr. 25.
 Shoe heel. F. G. Delbon. No. 60,607; Mar. 14.
 Shoe, Lady's. S. Dannofo. No. 61,087; June 20.
 Shoe ornament. L. H. Ordway. No. 60,876; Apr. 18.
 Shoe ornament. G. H. Pulsifer. Nos. 60,879-80; Apr. 18.
 Shoe-shining cabinet. L. Katz. No. 61,661; Nov. 14.
 Shoe sole. D. Freeman. No. 60,229; Jan. 17.
 Shoe sole. E. C. Stevens. No. 60,743; Mar. 28.
 Shoe vamp. R. Centrone. No. 61,718; Dec. 19.
 Sign. W. M. Condon. No. 60,513; Mar. 7.
 Sign, Highway. C. F. Cooke. No. 61,086; June 20.
 Sign, Illuminated. F. Zwick. No. 61,528; Sept. 26.
 Signal and tail light for motor vehicles, Direction. R. Secker. No. 61,609; Oct. 24.
 Silk textile, Artificial. E. C. Geier. No. 60,529; Mar. 7.
 Sink structure. F. D. Clinton. No. 60,318; Feb. 7.
 Slipper. M. Hirschfeld. Nos. 60,660-77; Mar. 21.
 Smokers' sets, Match and cigarette holder for. G. M. Minton. No. 60,109; Jan. 10.
 Smoker's stand. M. D. Deaderick. No. 61,619; Oct. 31.
 Smoker's stand. A. Johnson. No. 61,393; Aug. 22.
 Smokers' stand. G. M. Minton. No. 60,194; Jan. 10.
 Smoker's stand. C. D. Slocum. No. 60,967; May 16.
 Smoker's stand. J. D. Worobow. No. 60,715; Mar. 21.
 Soap cake. S. Resor. No. 60,171; Jan. 3.
 Sole. H. T. Mason. No. 61,473; Sept. 12.
 Sole or tap. D. Freeman. No. 61,157; July 4.
 Soles, Connected pair of half. G. F. Reinhardt. No. 60,264; Jan. 17.
 Souvenir wall hanging or plaque. V. W. Woods. No. 60,714; Mar. 21.
 Spinning card. G. McManus. No. 60,358; Feb. 7.
 Spoon. E. Fuchs. No. 61,410; Aug. 29.
 Spoon, fork, or similar article. H. Hillbom. No. 61,694; Nov. 28.
 Spoon or analogous article. H. E. Nock. No. 61,630; Oct. 31.
 Spoon or similar article. H. Hillbom. No. 61,703; Dec. 5.
 Spoon or similar article. S. V. James. No. 61,676; Nov. 21.
 Spoon or similar article. A. G. Kintz. No. 61,576; Oct. 28.
 Spoon or similar article. E. H. H. and I. V. Smith. No. 61,612; Oct. 24.
 Spoon or the like. W. Codman. No. 61,567; Oct. 24.
 Spoons, forks, or similar articles, Handle for. W. Codman. Nos. 61,084-5; June 20.
 Spoons, forks, or similar articles, Handle for. A. G. Kintz. No. 60,348; Feb. 7.
 Spoons or forks, Handle for. S. J. Large. No. 60,752; Apr. 4.
 Sprinkler, Lawn. G. A. Roth. No. 60,573; Mar. 7.
 Stamp, Name. R. H. Sprague. No. 60,274; Jan. 17.
 Stand. J. Santa. No. 61,121; June 20.
 Stand, Bowl. H. M. Bowdoin. No. 60,604; Mar. 14.

Alphabetical list of designs—Continued.

- Statue or statuette. L. R. MacEocagain. No. 61,687; Nov. 21.
- Statuette. G. D. Clardy. No. 60,778; Apr. 11.
- Statuette. H. W. Frishmuth. No. 61,294; Aug. 1.
- Statuette. L. L. Goodenow. No. 60,952; May 16.
- Statuette. S. Jobin. No. 61,138; June 27.
- Statuette. D. T. Money Penny. No. 61,420; Aug. 29.
- Statuette. A. E. Regan. No. 60,734; Mar. 28.
- Statuette. M. H. Schwinger. No. 60,884; Apr. 18.
- Statuette. G. Westervelt. No. 60,482; Feb. 21.
- Statuette or doll. G. E. Sleeman. No. 61,611; Oct. 24.
- Step tread. A. E. Johnson. No. 60,494; Feb. 28.
- Stick pin. A. K. Benedixen. No. 60,889; Apr. 25.
- Stocking. T. F. Ryan. No. 60,882; Apr. 18.
- Stocking. L. Siderman. No. 60,740; Mar. 28.
- Stool, Shoe-fitting. M. F. Davis. No. 61,735; Dec. 26.
- Storage batteries, Combination connector for. H. E. Walker. No. 60,279; Jan. 17.
- Store-front corner bar, Exterior member of a. D. J. Mur-nane. No. 60,733; Mar. 28.
- Stove, Gas. H. R. Humphrey. No. 60,543; Mar. 7.
- Stove, Heating. J. Festa. No. 61,518; Sept. 26.
- Stove, Oil. R. O. Humphrey. No. 60,750; Apr. 4.
- Stove-rising lifter. J. Baslaski. No. 60,207; Jan. 17.
- Stoves, Air-feeding device for. J. Y. King. No. 60,149; Jan. 3.
- Stoves, Top for gas. L. Lebau. No. 60,151; Jan. 3.
- Stud. Garment. E. V. C. A. Lindquist. No. 60,292; Jan. 24.
- Suit, Boy's. F. MacKay. No. 60,942; May 9.
- Sweater. B. Beckenstein. No. 61,459; Sept. 12.
- Sweater. D. Nusbaum. Nos. 60,800-7; Apr. 11.
- Sweater. J. Pelt. No. 61,601; Oct. 24.
- Switch plate, Flush. R. C. Steeple. No. 60,383; Feb. 7.
- Table. H. C. Gowran. No. 61,365; Aug. 15.
- Table top. P. J. Higgs. No. 61,659; Nov. 14.
- Tableware, Article of hollow. V. Gaertner. Nos. 60,129-32; Jan. 3.
- Tag, Display. B. Elsey. No. 60,610; Mar. 14.
- Talcum-powder box. W. E. Abbott. Nos. 60,205-6; Jan. 17.
- Talcum-powder box. F. Eberhart. Nos. 60,286-8; Jan. 24.
- Talcum-powder box. F. Eberhart. No. 60,719; Mar. 28.
- Talking-machine cabinet. J. F. Biggs. No. 61,656; Nov. 14.
- Tape, Sealing. A. M. Malone. No. 60,962; May 16.
- Teething ring. J. N. Patrick. No. 60,947; May 9.
- Telephone cabinet. C. A. Martin. No. 61,444; Sept. 5.
- Telephone, Hand. G. K. Thompson and A. U. Harper. No. 60,180; Jan. 3.
- Temperature-indicating device. L. S. Brach. No. 60,848; Apr. 18.
- Temperature-indicating instruments, Dial plate for. H. Schlaich. No. 61,021; May 30.
- Textile fabric. W. B. Allen. No. 60,636; Mar. 21.
- Textile fabric. W. B. Allen. No. 60,764; Apr. 11.
- Textile fabric. G. Barcl. No. 60,767; Apr. 11.
- Textile fabric. G. Barcl. No. 61,266; July 25.
- Textile fabric. J. H. Bunting. Nos. 60,507-8; Mar. 7.
- Textile fabric. J. H. Bunting. No. 60,772; Apr. 11.
- Textile fabric. J. H. Bunting. Nos. 61,730-2; Dec. 26.
- Textile fabric. E. F. Curtis. No. 60,781; Apr. 11.
- Textile fabric. W. Dowling. No. 60,905; Apr. 25.
- Textile fabric. W. Dowling. No. 61,152; July 4.
- Textile fabric. A. Eisele. Nos. 60,519-20; Mar. 7.
- Textile fabric. L. E. Ellis. Nos. 61,089-90; June 20.
- Textile fabric. W. V. A. Evers. No. 61,517; Sept. 26.
- Textile fabric. N. Fluegelman. No. 60,720; Mar. 28.
- Textile fabric. H. J. Gorgas. No. 61,092; June 20.
- Textile fabric. C. Katz. No. 60,545; Mar. 7.
- Textile fabric. C. Katz. No. 60,790; Apr. 11.
- Textile fabric. E. Krupicka. No. 60,546; Mar. 7.
- Textile fabric. E. Krupicka. Nos. 60,792-4; Apr. 11.
- Textile fabric. E. Krupicka. No. 61,271; July 25.
- Textile fabric. C. E. Lord. Nos. 61,578-88; Oct. 24.
- Textile fabric. C. E. Lord. Nos. 61,740-2; Dec. 26.
- Textile fabric. B. Nathan. No. 60,565; Mar. 7.
- Textile fabric. M. Rothschild. No. 60,574; Mar. 7.
- Textile fabric. M. Rothschild. Nos. 60,816-20; Apr. 11.
- Textile fabric. G. Rowland. Nos. 60,821-3; Apr. 11.
- Textile fabric. G. Rowland. No. 61,278; July 25.
- Textile fabric. W. Strasser. Nos. 60,579-86; Mar. 7.
- Textile fabric. W. Strasser. Nos. 60,826-34; Apr. 11.
- Textile fabric. W. Strasser. Nos. 61,281-4; July 25.
- Textile fabric. V. Tardy. Nos. 61,285-6; July 25.
- Textile fabric. A. Van Raalte. No. 60,277; Jan. 17.
- Textile fabric. V. Weiss. No. 60,842; Apr. 11.
- Textile fabric, wall paper, wrapping paper, or article of similar nature. E. Gaudioz. No. 61,269; July 25.
- Thermometer. A. Keogh. No. 61,414; Aug. 29.
- Thermometer. J. E. Ward. No. 61,428; Aug. 29.
- Thermometer, Auto. E. T. Curran. No. 60,780; Apr. 11.
- Thermometer back. J. E. Ward. No. 60,298; Jan. 24.
- Thermos bottle. H. D. Newman. No. 60,566; Mar. 7.
- Thread, Holder for crochet. A. A. Harris. No. 60,239; Jan. 17.
- Tile, Building. C. E. Mullins. No. 60,256; Jan. 17.
- Tire. M. Aaron. No. 61,637; Nov. 7.
- Tire. H. J. Andrus. No. 61,026; June 6.
- Tire. H. J. Andrus. Nos. 61,432-3; Sept. 5.
- Tire. E. H. Broadwell. No. 61,557; Oct. 24.
- Tire. W. Carnal. No. 61,221; July 18.
- Tire. W. D. Carnal. No. 61,493; Sept. 19.
- Tire. B. Dahl. No. 61,033; June 6.
- Tire. F. J. Dougherty. No. 60,609; Mar. 14.
- Tire. A. A. Frank. No. 61,155; July 4.
- Tire. E. O. Fritch. No. 61,674; Nov. 21.
- Tire. H. A. Githens. No. 61,498; Sept. 19.
- Tire. P. H. Heater. No. 60,343; Feb. 7.
- Tire. W. F. Hoelzer and J. T. Johnson. No. 61,161; July 4.
- Tire. J. T. Johnson. No. 61,164; July 4.
- Tire. M. A. Marquette. No. 60,692; Mar. 21.
- Tire. G. L. Mather. No. 60,620; Mar. 14.
- Tire. B. H. Pratt. No. 60,630; Mar. 14.
- Tire. B. H. Pratt. No. 61,715; Dec. 12.
- Tire. D. H. Roberts. No. 61,716; Dec. 12.
- Tire. H. G. Schmidt. No. 61,690; Nov. 21.
- Tire. R. S. Trogner. No. 60,709; Mar. 21.
- Tire. L. S. Utter. No. 60,276; Jan. 17.
- Tire. C. Ziegler. No. 61,025; May 30.
- Tire, Automobile. A. Falconio. No. 61,568; Oct. 24.
- Tire, Automobile. J. B. Gabeline. No. 60,656; Mar. 21.
- Tire, Automobile. I. P. Smith. No. 61,333; Aug. 1.
- Tire casing. R. M. Pierson. No. 61,665; Nov. 14.
- Tire, Elastic vehicle. A. L. Breitenstein. No. 60,512; Mar. 7.
- Tire, Elastic vehicle. A. L. Breitenstein. No. 61,030; June 6.
- Tire for vehicles, Solid rubber. H. H. Boucher. No. 61,150; July 4.
- Tire, Nonskid. J. N. Carter. No. 61,462; Sept. 12.
- Tire, Resilient. J. C. Tuttle. No. 61,003; May 23.
- Tire tread. F. Alexandre. No. 60,523; Mar. 7.
- Tire tread. F. A. Bollinger. No. 61,290; Aug. 1.
- Tire tread. J. C. Brown and L. E. Kraft. No. 60,977; May 23.
- Tire tread. A. A. Bush. No. 60,443; Feb. 21.
- Tire tread. A. H. Clark. No. 60,748; Apr. 4.
- Tire tread. W. R. Denman. No. 60,853; Apr. 18.
- Tire tread. E. A. Hecht. No. 60,724; Mar. 28.
- Tire tread. E. A. Hecht. No. 61,441; Sept. 5.
- Tire tread. R. Iredell. No. 61,695; Nov. 28.
- Tire tread. L. H. Lightfoot. No. 60,753; Apr. 4.
- Tire tread. H. D. Mitchell. Nos. 61,243-5; July 18.
- Tire tread. H. D. Mitchell. No. 61,396; Aug. 22.
- Tire tread. C. F. Ofensend. No. 61,101; June 20.
- Tire tread. H. W. Osborn. No. 61,102; June 20.
- Tire tread. H. D. Reichard. No. 60,631; Mar. 14.
- Tire tread. W. F. Ridge. No. 60,704; Mar. 21.
- Tire tread. F. Rufensacht. No. 60,705; Mar. 21.
- Tire tread. W. L. Thompson. No. 61,671; Nov. 14.
- Tire tread. F. V. Winters. No. 60,389; Feb. 7.
- Tire tread. P. Worth. No. 61,453; Sept. 5.
- Tire tread. P. Worth. No. 61,553; Oct. 17.
- Tire tread, Automobile. J. P. Drish. Nos. 60,517-18; Mar. 7.
- Tire tread, Elastic. E. O. Blekre. No. 61,325; Aug. 8.
- Tire, Tread for a vehicle. W. N. Allan. No. 60,596; Mar. 14.
- Tire tread or similar article. R. W. Hutchens and S. P. Woodard. No. 60,927; May 2.
- Tire tread, Pneumatic. H. S. Berlin. No. 60,933; May 9.
- Tire tread, Pneumatic. H. S. Berlin. No. 61,148; July 4.
- Tire tread, Pneumatic. J. J. Moriarty. No. 61,143; June 27.
- Tire tread, Pneumatic. O. Moynihan. No. 61,447; Sept. 5.
- Tire tread, Vehicle. P. D. Saylor. No. 61,351; Aug. 8.
- Tire, Vehicle. W. G. Current. No. 61,336; Aug. 8.
- Tire, Vehicle. A. A. Glidden and E. O. Fritch. Nos. 60,722-3; Mar. 28.
- Tire, Vehicle. A. A. Glidden and E. O. Fritch. No. 60,926; May 2.
- Tire, Vehicle. R. Muir. No. 60,732; Mar. 28.
- Toaster. G. E. Curtiss. No. 60,398; Feb. 14.
- Tobacco pipe. F. A. McKagney. No. 61,100; June 20.
- Toilet powder, etc., Receptacle for. L. A. Wagenaar. Nos. 60,386-7; Feb. 7.
- Tombstone. C. Johnson. No. 60,685; Mar. 21.
- Tool, Combination. M. Glossop. No. 60,135; Jan. 3.
- Toothbrush handle. W. L. Webster. No. 60,184; Jan. 3.
- Torch, Welding. A. F. Jenkins. No. 60,346; Feb. 7.
- Toy. F. D. Ammen. No. 61,079; June 20.
- Toy. J. G. Becker. No. 60,932; May 9.
- Toy. D. Bilton. No. 60,718; Mar. 28.
- Toy. M. P. Duryea and C. Ingraham. No. 61,224; July 18.
- Toy. A. Gerbensky. No. 60,938; May 9.
- Toy. R. R. Larsen. No. 61,542; Oct. 17.
- Toy. F. E. McDowell. No. 60,799; Apr. 11.
- Toy. R. L. Roberts. No. 60,999; May 23.
- Toy. A. H. Shenk. No. 61,214; July 11.
- Toy. F. H. Steacy. No. 61,484; Sept. 12.
- Toy aeroplane. H. H. Perry. No. 60,809; Apr. 11.
- Toy animal. L. Myers. No. 61,629; Oct. 31.
- Toy animal. S. J. Tamo. No. 61,485; Sept. 12.
- Toy automobile. L. L. Custer. No. 60,643; Mar. 21.
- Toy automobile. E. R. Damarus. Nos. 60,644-6; Mar. 21.
- Toy ball. F. A. Cligol. No. 60,979; May 23.
- Toy balloon. J. O. Karpen. No. 60,908; Apr. 25.
- Toy balloon. H. A. Loomis. Nos. 60,553-4; Mar. 7.
- Toy balloon. A. P. Witten. No. 60,971; May 16.
- Toy bank. F. Yokel. No. 61,615; Oct. 24.

Alphabetical list of designs—Continued.

- Toy bear, doll, or similar article. C. W. Wertin. Nos. 60,432-4; Feb. 14.
- Toy cane. W. P. Woerner. No. 61,552; Oct. 17.
- Toy, Dancing animal. J. A. Hidalgo. Nos. 60,541-2; Mar. 7.
- Toy dog. B. O. Bidwell. Nos. 61,288-9; Aug. 1.
- Toy dog. F. W. Hopkins. Nos. 61,302-5; Aug. 1.
- Toy dog. A. Lund. Nos. 61,312-15; Aug. 1.
- Toy dog. W. H. Powers. Nos. 61,326-7; Aug. 1.
- Toy doll. C. B. Lockwood. No. 61,273; July 25.
- Toy, Flying. W. H. V. Shrum. No. 60,825; Apr. 11.
- Toy glider. W. F. Lebzelter. No. 60,728; Mar. 28.
- Toy or similar article. C. B. Sisson. No. 60,741; Mar. 28.
- Toy rabbit. A. P. Handley. No. 61,622; Oct. 31.
- Toy, Rotary. S. Kardash. No. 60,686; Mar. 21.
- Toy saddle horse. W. E. Bartholomew. No. 60,974; May 23.
- Toy shackle. J. E. Blake. No. 61,149; July 4.
- Toy spotted balloon. E. T. Richert. No. 60,814; Apr. 11.
- Toy target. O. E. Jacobs. No. 60,291; Jan. 24.
- Toy truck. C. A. Gustavson. No. 60,986; May 23.
- Toy, Wheeled. J. C. Juthe. No. 60,956; May 16.
- Toy, Wheeled. C. H. Pajean. No. 61,476; Sept. 12.
- Toy, Whirligig. H. M. Fletcher. No. 61,154; July 4.
- Toy whistle. S. Wolk. No. 60,437; Feb. 14.
- Toy windmill. S. A. Gill. No. 61,185; July 4.
- Traffic signal. E. H. Medén. No. 60,293; Jan. 24.
- Transmission-case-supporting member. C. Enders. No. 60,289; Jan. 24.
- Tray. J. Gannon. No. 61,225; July 18.
- Tray. L. M. Schnitzer, L. Garroway, and N. Gelfman. No. 61,381; Aug. 15.
- Tray. M. Stern. No. 61,353; Aug. 8.
- Tray, Combination. P. Pecoraro. No. 60,424; Feb. 14.
- Tray, Combination match and ash. G. R. West. Nos. 60,281-2; Jan. 17.
- Tray for holding dental instruments and supplies. G. L. Grier. No. 60,340; Feb. 7.
- Tray or similar article, Bread. V. Gaertner. No. 60,490; Feb. 28.
- Tray, Smoker's. J. L. Klase, A. P. McGrann, and J. J. Bach. No. 60,349; Feb. 7.
- Tray, Smoker's. G. M. Minton. Nos. 60,195-8; Jan. 10.
- Tray, Smoker's. G. M. Minton. No. 60,200; Jan. 10.
- Trays or similar articles, Holder for ash. F. M. Archer. No. 60,973; May 23.
- Tricycle. R. Duguid. No. 60,223; Jan. 17.
- Trimming. E. C. Geier. No. 60,528; Mar. 7.
- Trunk lock. G. H. Wheary. No. 60,278; Jan. 17.
- Tumbler holder. M. Halpern. No. 60,534; Mar. 7.
- Tweezers. S. B. Kahnweiler. No. 60,455; Feb. 21.
- Typewriter mat. T. W. Arter. No. 61,287; Aug. 1.
- Vacuum cleaner. C. F. Smith. No. 60,471; Feb. 21.
- Valance. H. H. Lindner. No. 61,272; July 25.
- Valve. O. L. Whiteman. No. 60,185; Jan. 3.
- Vase. A. A. Lyon. No. 61,169; July 4.
- Vehicle body. B. L. Ebert. No. 60,399; Feb. 14.
- Vehicle body. J. Graham. No. 60,137; Jan. 3.
- Vehicle body for auto stores. E. J. Greene. No. 60,339; Feb. 7.
- Vehicle cab. E. C. Morine. No. 60,363; Feb. 7.
- Vehicle, Child's. J. Lo Verde and A. Tubiolo. No. 60,250; Jan. 17.
- Vehicle, Child's. C. A. Sundstrand. No. 60,969; May 16.
- Vehicle door handle. G. V. Schlunk. No. 60,576; Mar. 7.
- Vehicle frame, Juvenile. W. E. Clatworthy. No. 60,217; Jan. 17.
- Vehicle, Motor. V. Mitchell. No. 60,916; Apr. 25.
- Vehicle, Motor-driven. R. B. Fageol. No. 60,400; Feb. 14.
- Vehicle signal, Motor. F. A. Wescott. No. 60,593; Mar. 7.
- Vehicle, Vending. O. Brockman. No. 60,395; Feb. 14.
- Vehicles, Direction indicator for. T. C. Anthony. No. 61,492; Sept. 19.
- Vehicles, Mascot for motor road. R. Tyzack. No. 61,692; Nov. 21.
- Vehicles, Signal box for motor. D. G. Banker. No. 61,711; Dec. 12.
- Vehicles, Unitary parking lamp and mirror for. G. L. Hall. No. 60,616; Mar. 14.
- Vending-machine casing. C. W. Mabey. No. 61,589; Oct. 24.
- Votive stand. R. Coco. No. 61,010; May 30.
- Waffle iron. C. P. Randolph. No. 61,605; Oct. 24.
- Wall bracket. B. Newland. No. 61,376; Aug. 15.
- Wall covering in raised relief. H. T. Abolin. Nos. 61,405-7; Aug. 29.
- Washing machine, Cabinet for a. L. C. Upton. No. 60,481; Feb. 21.
- Washing-machine frame. F. C. Sebulske. No. 60,430; Feb. 14.
- Washing-machine tub and frame, Combination. F. M. Case. No. 60,978; May 23.
- Washing-machine tub and frame, Combination. J. J. Wood. No. 60,843; Apr. 11.
- Watch and knife, Combination. W. Ochse. No. 61,220; July 18.
- Watchcase. F. G. Gruen. No. 60,532; Mar. 7.
- Watchcase. F. J. Hermann. No. 60,142; Jan. 3.
- Watch case. G. J. Keller. No. 61,696; Nov. 28.
- Watchcase. C. J. Kuchtik. No. 60,866; Apr. 18.
- Watchcase. J. D. Rosenberg. No. 60,881; Apr. 18.
- Watchcase bow. L. M. Williams. Nos. 61,490-1; Sept. 12.
- Watchcase crown. L. M. Williams. No. 61,456; Sept. 5.
- Watchcase pendant. L. M. Williams. No. 61,513; Sept. 19.
- Watchcase, pendant, bow, and crown, Combination. L. M. Williams. No. 61,636; Oct. 31.
- Watchcase, Wrist. F. G. Gruen. No. 60,533; Mar. 7.
- Watch dial. F. A. Goodrow. No. 60,336; Feb. 7.
- Watch holder, Sautoir. G. Rieixinger. No. 61,213; July 11.
- Watch-movement case. S. K. Ouzoun-Boghossian. No. 60,497; Feb. 28.
- Watch pendant. F. J. Hermann. No. 60,141; Jan. 3.
- Weighing scale. C. H. Hapgood. No. 60,140; Jan. 3.
- Wringer, Clothes. A. O. Hubbard. No. 60,144; Jan. 3.
- Writing pad and advertising device or similar article, Combined. R. M. Gaffney. No. 61,193; July 11.

ALPHABETICAL LIST OF TRADE-MARKS.

- Abdominal binders and supporters. K. L. Storm. No. 160,352; Oct. 17.
- Abrasive papers and cloths. Herman Behr & Company. No. 157,642; Aug. 15.
- Abrasives. Manning Abrasive Company Incorporated. No. 162,542; Dec. 19.
- Accordions. Matth Hohner Actien-Gesellschaft. No. 153,258; Aug. 29.
- Accounting system. E. A. Pratt. No. 153,382; Mar. 14.
- Accumulators and parts thereof, Electric. Accumuloren-Fabrik Aktengesellschaft. Nos. 153,090-1; Mar. 14.
- Acetyl salicylic acid. G. T. Erb. No. 154,274; Apr. 11.
- Acetylene and gas, Burners for. Dimitry Delaunay & Husi. No. 160,448; Oct. 24.
- Acetylsalicyloyltheobromine. E. Merck. No. 161,805; Nov. 21.
- Acid concentrators. Chemical Construction Company. No. 150,768; Jan. 10.
- Adding machine and adding-machine attachments. Type Adder Mfg. Corp. No. 156,768; July 11.
- Address labels, letter heads, envelopes, etc. The Address. No. 153,955; Apr. 4.
- Adhesive, Certain. Harris & Cox. No. 153,195; Mar. 14.
- Adhesive for the application of soles to shoes. J. Alexander. No. 156,498; June 27.
- Adhesive, Paste. Commercial Paste Co., The. Nos. 151,022-3; Jan. 10.
- Adhesive paste. Union Paste Company. No. 154,405; Apr. 11.
- Adhesive preparation, Liquid. F. E. Housh. No. 151,335; Jan. 31.
- Adhesive substance. W. L. White. Nos. 161,668-9; Nov. 14.
- Adhesive used in applying labels. Burt Machine Company. No. 159,610; Sept. 26.
- Advertising matter, Certain. Textile Publishing Company. No. 151,971; Feb. 14.
- Aerial navigation and scientific instruments. Pioneer Instrument Company. No. 160,269; Oct. 17.
- Aerial tramway towers and wire and wire mesh for concrete reinforcement. American Steel & Wire Company of New Jersey. No. 159,652; Oct. 3.
- Aeroplanes. J. L. Aircraft Corporation. No. 151,655; Feb. 14.
- Aeroplanes and parts thereof, Certain. Horace Keane Aeroplanes, Inc. No. 157,117; July 25.
- Agricultural machinery and tractors and tractor hitches, Certain. International Harvester Company. No. 152,433; Feb. 28.
- Air-brush plants. Decora Manufacturing Co. No. 152,744; Mar. 7.
- Air compressors. Gaul, Derr & Shearer Company. No. 153,726; Mar. 28.
- Air lifts and liquid separators. Sullivan Machinery Company. No. 159,545; Sept. 26.
- Airplanes. Curtiss Aeroplane and Motor Corporation. No. 153,146; Mar. 14.
- Airplanes. Curtiss Aeroplane and Motor Corporation. No. 157,038; July 25.
- Airships, balloons, etc. Airship Manufacturing Company of America. No. 153,956; Apr. 4.
- Alarms, Electric thief and burglar. G. W. Wacker. No. 151,628; Feb. 7.
- Alarms, Hold-up. Padua "Hold-Up" Alarm Corporation. No. 156,600; July 4.
- Albums. F. S. Betts. No. 151,081; Jan. 24.
- Alcohol, Bathing. C. D. Smith Drug Company. No. 153,856; Mar. 28.

Alphabetical list of trade-marks—Continued.

- Alcohol, Denatured. Western Industries Co. No. 151,637; Feb. 7.
- Alcohol, ethyl. Western Industries Co. No. 151,281; Jan. 24.
- Alcohol, Massage. Langley & Michaels Co. No. 158,245; Aug. 29.
- Alcohol, Medicated or denatured. Owl Drug Company. No. 150,509; Jan. 3.
- Alcohol, Rubbing. Continental Drug Corporation. No. 156,218; June 20.
- Alcohol, Rubbing. Langley & Michaels Co. No. 158,246; Aug. 29.
- Alcohol, Solvent and menstrum and substitute for ethyl. Electro Chemical Refineries, Inc. No. 152,756; Mar. 7.
- Alcoholic solvent. Rossville Company. No. 151,932; Feb. 14.
- Alfalfa meal. Denver Alfalfa Milling & Products Co. No. 152,383; Feb. 28.
- Alfalfa seed. Hairy Peruvian Alfalfa Seed Growers Association. No. 153,193; Mar. 14.
- Alimentary paste. A. F. Ghiglione & Sons, Inc. Nos. 160,497-8; Oct. 24.
- Alimentary paste products. Ronzoni Macaroni Company. No. 158,790; Sept. 12.
- Alimentary paste products. Wisconsin Macaroni Company. No. 160,815; Oct. 24.
- Alizarin. Artificial. British Alizarine Company. No. 153,671; Mar. 28.
- Alkaline antiseptics. W. N. Edenfield. No. 152,160; Feb. 21.
- Alloy. Frictionless Metal Company. No. 20,952; renewed Apr. 5, 1922.
- Alloy and castings made therefrom, Nonrusting and corrosion-resisting. Metal and Alloy Specialties Company. No. 159,436; Sept. 26.
- Alloy for jewelry and jewelers' goods. Marret, Bonnin, Lebel & Guieu. No. 150,892; Jan. 10.
- Alloy steels. Carpenter Steel Company. No. 154,897; May 16.
- Alloy, Tempered gold. Precious Metals Tempering Co. No. 162,108; Dec. 5.
- Alloys. Ludlum Steel Company. No. 161,537; Nov. 14.
- Alloys, Aluminum. A. C. Ryan. No. 162,115; Dec. 5.
- Alloys and castings and forgings produced therefrom. Magnesium. Magna Metal Corporation. No. 159,428; Sept. 26.
- Alloys for dental castings, Gold. Geo. A. Wiechert Co. No. 153,061; Mar. 7.
- Alloys for dental purposes, Gold. J. M. Ney Company. Nos. 154,342-56; Apr. 11.
- Alloys for use in the manufacture of jewelry and jewelers' goods. Marret, Bonnin, Lebel & Guieu. No. 161,549; Nov. 14.
- Alloys, Gold. J. M. Ney Company. No. 152,619; Feb. 28.
- Alloys, Nonferrous and ferrous. F. W. Steinacker. No. 151,602; Feb. 7.
- Alloys, Nonferrous metal. Barnhart Brothers & Spindler. No. 150,724; Jan. 10.
- Alloys of copper, zinc, and nickel in certain forms, Metal. Seymour Manufacturing Company. Nos. 162,116-18; Dec. 5.
- Alloys of great hardness, Metallic. Gesellschaft fur Wolfram-Industrie, m. b. H. No. 162,078; Dec. 5.
- Alspice, licorice, milk, tea, etc. San Antonio Drug Co. No. 159,504; Sept. 26.
- Almond meal, foot, shampoo, and face powders, hair tonic, etc. E. Hallman. No. 158,228; Aug. 29.
- Almond paste. Hartmann Food Product Co. No. 158,698; Sept. 12.
- Almonds, almond meats, paste, blanched, etc. California Almond Growers Exchange. Nos. 159,300-1; Sept. 26.
- Almonds and other nuts. Nut Specialty House. No. 152,472; Feb. 28.
- Almonds, Salted. Mrs. E. L. Thornhill. No. 156,069; June 13.
- Aluminum ware, Certain articles of. Illinois Pure Aluminum Co. No. 155,245; May 23.
- Aluminum ware, Hollow. George Borgfeldt & Co. No. 155,205; May 23.
- Aluminum wares, Certain. Sterling Sales Company. No. 155,537; May 30.
- Ammeters, voltmeters, ohmmeters, etc. Record Electrical Company. No. 162,872; Dec. 26.
- Ammonia. Condensed Bluing Co. No. 155,947; June 13.
- Ammonia. Vernon Manufacturing Co. Nos. 161,332-3; Nov. 7.
- Ammonia and javelle water. Wilbert Products Co. No. 156,470; June 20.
- Ammonium sulfoichthyolate. Standard Oil Company, (Incorporated in New Jersey.) No. 153,869; Mar. 28.
- Ammunition. Gustav Genschow & Co., Aktiengesellschaft. No. 162,759; Dec. 26.
- Amusement device. Paramount Amusement Device Corp. No. 160,619; Oct. 24.
- Analgesic and medicine for neuralgia, headache, toothache, etc., General. Societe Civile des Heritiers de P. Basset. No. 156,058; June 13.
- Analgesic and medicine for neuralgia, headache, toothache, rheumatism, and grippe, General. Societe Civile des Heritiers de P. Basset. No. 157,285; July 25.
- Analgesic, Antirheumatic. Societe Chimique des Usines du Rhone. No. 153,860; Mar. 28.
- Analgesic tablets for headache, neuralgia, rheumatism, etc. P. Metadier. No. 161,816; Nov. 21.
- Anchovy essence, coffee, coffee and chicory essence, etc. Cockatoo Preserves Limited. No. 162,214; Dec. 12.
- Anesthetic, Local. Asensin Company of America. No. 155,602; June 6.
- Anesthetic, Local. Societe Chimique des Usines du Rhone. No. 153,862; Mar. 28.
- Anesthetic, Local. Society of Chemical Industry in Basle. No. 156,426; June 20.
- Anesthetics and preparations for alleviating irritation and pain. H. A. Metz Laboratories. Nos. 152,231-2; Feb. 21.
- Anesthetics or hypnotics. J. Kahlbaum. No. 20,460; renewed Dec. 15, 1921.
- Animal shoes. Bryden Horse Shoe Company. No. 21,866; renewed Oct. 18, 1922.
- Anodes, commutator bars, and segments. Rome Brass & Copper Co. No. 154,761; Apr. 18.
- Anodes in nickel, copper, brass, zinc, etc., Cast. A. P. Munning & Co. No. 162,645; Dec. 19.
- Antacid and aperient. Magnesia Company. No. 152,094; Feb. 14.
- Anticorrosive chemical compositions or compounds. Sozol Limited. No. 158,304; Aug. 29.
- Antifur medicines. Mar-Vello Remedies Co. No. 157,359; Aug. 1.
- Antileak compound. Thomas Company. No. 158,310; Aug. 29.
- Antiphlogistic dressing, Liquid. W. G. Evans. No. 156,242; June 20.
- Antirheumatic, analgesic, and antipyretic. Bayer Company. No. 156,174; June 20.
- Antiseptic. Merrimac Drug Company. No. 154,330; Apr. 11.
- Antiseptic and alternative. Winthrop Chemical Company. No. 158,148; Aug. 22.
- Antiseptic and eczema preparation. J. Miller. No. 151,549; Feb. 7.
- Antiseptic and germicidal solution. Langley & Michaels Co. No. 159,409; Sept. 26.
- Antiseptic and mouth wash, Liquid. Hancock-Smiths, Incorporated. No. 160,878; Oct. 31.
- Antiseptic and prophylactic solution. Ohio Valley Drug Company. No. 151,893; Feb. 14.
- Antiseptic deodorant powder. D. G. Reeder. No. 158,064; Aug. 22.
- Antiseptic for teeth, sores, throat wash, and douches. F. B. Crocker. No. 157,320; Aug. 1.
- Antiseptic liquid. A. Kantar. No. 161,183; Nov. 7.
- Antiseptic medical substance. Winthrop Chemical Company. No. 150,653; Jan. 3.
- Antiseptic mouth wash. G. B. Fewell. No. 157,945; Aug. 22.
- Antiseptic mouth wash. Dr. O. A. Miller Chemical Company. No. 150,476; Jan. 3.
- Antiseptic pharmaceutical preparation. G. D. Searle and Company. No. 159,759; Oct. 3.
- Antiseptic powder. A. C. Hanson. No. 152,190; Feb. 21.
- Antiseptic powder for the treatment of affections of the nose and throat. Rhinol Co. No. 151,579; Feb. 7.
- Antiseptic preparation. Mifflin Chemical Corporation. No. 157,824; Aug. 15.
- Antiseptic preparation. West-Laboratorium Gesellschaft mit beschränkter Haftung. No. 161,666; Nov. 14.
- Antiseptic preparations. Lyko Medicine Co. No. 155,754; June 6.
- Antiseptic solution. Henry S. Wampole Company. No. 159,147; Sept. 19.
- Antiseptic solution and mouth wash. Larkin Co. No. 159,927; Oct. 10.
- Antiseptic solution for use in the oral and nasal passages, Alkaline. Owl Drug Company. No. 161,249; Nov. 7.
- Antiseptic solution, Red. William S. Merrell Company. No. 161,229; Nov. 7.
- Antiseptic solutions. Western Chemical Company. No. 151,635; Feb. 7.
- Antiseptic wash. J. J. Jenkins. No. 156,313; June 20.
- Antiseptics. Buffalo Specialty Co. No. 155,632; June 6.
- Antiseptics. W. L. Erhardt. No. 152,162; Feb. 21.
- Antiseptics. Lehn and Fink, Inc. No. 159,930; Oct. 10.
- Antiseptics and deodorizers. Dairy Laboratories. No. 153,691; Mar. 28.
- Antiseptics, disinfectants, fungicides, and insecticides. Grasselli Chemical Company. No. 156,276; June 20.
- Antiskid chains for vehicle wheels. American Chain Company. No. 156,160; June 20.
- Antiskid chains for vehicle wheels. American Chain Company. No. 156,989; July 25.
- Anti-snake-bite preparation, Liquid. R. Diener. Nos. 154,266-7; Apr. 11.
- Antisnoring device. D. H. Miller. No. 161,455; Nov. 14.
- Antispasmodic and sedative given for intestinal affection. Chemische Fabrik vormals Sandoz. No. 150,287; Jan. 3.
- Antispasmodic and sedative given for intestinal affection. Chemische Fabrik vormals Sandoz. No. 150,290; Jan. 3.

Alphabetical list of trade-marks—Continued.

- Antispasmodic and sedative preparations. Southwestern Pharmacal Company. No. 150,585; Jan. 3.
- Anvil. W. E. Bedell. No. 1,431,868; Oct. 10.
- Aperient medical preparation. A. D. Holland & Co. No. 156,801; June 20.
- Aphrodisiac. Clyde Collins Company. No. 150,301; Jan. 3.
- Apparel, Article of. L. A. Sherry. No. 1,434,231; Oct. 31.
- Apparel, Certain outing and sporting. Hirshfield Skirt Co. No. 158,703; Sept. 12.
- Apparel for men, women, and children, Wearing. F. T. Woodman Co. No. 156,943; July 18.
- Apparel, Wearing. S. M. Werber. No. 155,864; June 6.
- Apple cider and cider vinegar. Duffly Mountfort & Greene Cider Company. No. 20,817; renewed Mar. 8, 1922.
- Apple cider, grape juice, and fruit sirups for making soft drinks. California Fruit Beverage Co. No. 157,884; Aug. 22.
- Apples. Coveland Orchards. No. 160,436; Oct. 24.
- Apples. W. B. Glaike Co. No. 154,790; May 9.
- Apples. Jerseyville Nursery. No. 153,089; Mar. 7.
- Apples and pears, Fresh. C. M. Kopp Company. No. 156,532; June 27.
- Apples and pears, Fresh. Winthrop Fruit Co. No. 162,416; Dec. 12.
- Apples, Fresh. Equity Growers & Shippers Association. No. 155,681; June 6.
- Apples, Fresh. H. Johnston. No. 161,698; Nov. 14.
- Apples, Fresh. Wenatchee District Co-operative Association. No. 162,148; Dec. 5.
- Apples, Fresh. Wenatchee Fruit & Warehouse Co. No. 156,078; June 13.
- Apples, Fresh. White Bluffs Warehouse Co. No. 160,724; Oct. 24.
- Aprons. M. P. Duggan. No. 156,860; July 18.
- Aprons. Gillette Rubber Co. No. 157,506; Aug. 8.
- Aprons. House Dress Apron Co. No. 155,156; May 16.
- Aprons. R. H. Macy & Co. Nos. 154,620-1; Apr. 18.
- Aprons. R. H. Macy & Co. No. 160,234; Oct. 17.
- Aprons and dresses. M. E. Hodge. No. 154,575; Apr. 18.
- Aprons and apron dresses. Sopkin Brothers. No. 161,633; Nov. 14.
- Aprons and belts, Sanitary. J. Stein. No. 161,381; Nov. 7.
- Aprons and dresses, Women's cotton. I. Ginsberg & Bros. No. 157,074; July 25.
- Aprons and house dresses. Birkenfeld, Strauss & Co. No. 151,677; Feb. 14.
- Aprons and house dresses. H. S. Weil Co. No. 161,664; Nov. 14.
- Aprons, Bungalow. Elias and Lowenstein Company. No. 157,051; July 25.
- Aprons, dresses, and nightgowns and children's play suits, Women's and children's. American Garment Co. No. 158,880; Sept. 19.
- Aprons, dresses, petticoats, nightgowns, etc., Bungalow. A. D. Finkel. Nos. 158,664-5; Sept. 12.
- Aprons, girdle supporters, and baby pants, Household. A. Stein & Company. No. 161,308; Nov. 7.
- Aprons, house dresses, and dresses, Ladies'. J. A. and R. E. Solmes. No. 158,815; Sept. 12.
- Aprons, Household and nursery. Rubberized Sheetting & Specialty Co. Inc. No. 155,777; May 16.
- Aprons, ladies' and children's dresses, bath robes, capes, etc. S. D. Friedman. No. 154,549; Apr. 18.
- Arch braces. Geo. H. Jung Co. No. 153,216; Mar. 14.
- Arch supports. Saperston Manufacturing Co. No. 159,505; Sept. 26.
- Arsenic complexion wafers. R. Fink. No. 151,478; Feb. 7.
- Artichokes, Fresh. J. L. Debenedetti. No. 162,224; Dec. 12.
- Articles of precious metal, Certain named. McChesney Company. No. 162,298; Dec. 12.
- Articles of precious-metal ware. Berendorfer Metallwarenfabrik. No. 152,684; Mar. 7.
- Articles of stationery. American Wholesale Corporation (Baltimore Bargain House). No. 153,960; Apr. 4.
- Asbestos pipe covering. Sall Mountain Company. No. 160,282; Oct. 17.
- Ash receivers and trays. Reliance Metal Spinning & Stamping Co. No. 158,069; Aug. 22.
- Ash trays. Griffin Choker Ash Tray, Inc. No. 157,512; Aug. 8.
- Asphalt and asphaltum. Arbuckle Mining Co. No. 159,653; Oct. 3.
- Asphalt products, fluxes, and pitches. Standard Oil Company (Incorporated in New Jersey). No. 159,766; Oct. 3.
- Asphaltum. Standard Oil Company of New York. No. 162,898; Dec. 26.
- Aspirators, cupping outfits, and compression outfits. Dr. O. Lederer. No. 161,528; Nov. 14.
- Asthma sera. S. F. Barker. No. 153,657; Mar. 28.
- Athletic and sporting goods. Haddfields Limited. No. 151,157; Jan. 24.
- Athletic goods. B. F. Goodrich Company. No. 151,140; Jan. 24.
- Athletic underwear, Men's. M. J. Friedman. No. 157,072; July 25.
- Atomizers, Perfumed. George E. Mignon, Inc. No. 162,441; Dec. 12.
- Augers, drills, chisels, bits, etc. Forest City Bit & Tool Co. No. 156,673; July 11.
- Auto body polish, polishing wax, liquid tire cover, etc. R. M. Hollingshead Co. No. 151,171; Jan. 24.
- Auto seats, camp and folding chairs. Brockman Company. No. 153,419; Mar. 21.
- Auto top and seat dressing. C. E. Harris. No. 155,438; May 30.
- Automobile accessories. American Metal Parts Mfg. Co. No. 151,014; Jan. 10.
- Automobile accessories. Central Brass & Fixture Company. No. 153,136; Mar. 14.
- Automobile accessories. Cloud Accessories Corporation. No. 151,452; Feb. 7.
- Automobile and engine parts and accessories. Burgess-Norton Mfg. Co. No. 155,936; June 13.
- Automobile and furniture cleaner and polish. Klens-Zol Co. No. 150,437; Jan. 3.
- Automobile and furniture polish. L. G. Pilgrim. No. 159,476; Sept. 26.
- Automobile and furniture polish. K. Schnaitz. No. 152,987; Mar. 7.
- Automobile and truck wheels. Bethlehem Steel Company. No. 160,392; Oct. 24.
- Automobile auxiliary seats. "Holemtite" Auto Seat Company. No. 160,529; Oct. 24.
- Automobile axles and transmissions, Gears and shafts for. American Gear Company. No. 161,735; Nov. 21.
- Automobile bodies. Lehman Mfg. Co. No. 151,840; Feb. 14.
- Automobile bodies, Cleaner and polish for. G. W. Cable. No. 151,318; Jan. 31.
- Automobile bodies, tire carriers, and bumpers. Fleetwood Metal Body Co. No. 162,432; Dec. 12.
- Automobile body hardware. Ternstedt Manufacturing Co. No. 160,691; Oct. 24.
- Automobile brake lining. Russel Manufacturing Company. No. 152,976; Mar. 7.
- Automobile bumpers. I. A. Sibley, jr. No. 160,016; Oct. 10.
- Automobile bumpers and parts thereof. Biflex Products Company. No. 159,810; Oct. 10.
- Automobile bumpers and parts thereof. Biflex Products Company. No. 160,138; Oct. 17.
- Automobile crank-case support. E. D. Wolbert. No. 150,655; Jan. 3.
- Automobile cushions and radiator covers. Federal Automobile Painting and Trimming Company. No. 160,475; Oct. 24.
- Automobile door handles and latches and hood catches. S. H. Thomson Manufacturing Co. No. 160,115; Oct. 10.
- Automobile, etc., polish, floor wax, and cleaning compound. Polishesen Manufacturing Company. No. 161,591; Nov. 14.
- Automobile finishes. Ditzler Color Company. No. 158,426; Sept. 5.
- Automobile, furniture, etc., Polish for. O. E. Habicht. No. 154,042; Apr. 4.
- Automobile ignition and signaling circuits, Detectors for indicating the condition of. E. F. Potter. No. 151,913; Feb. 14.
- Automobile locks. F. M. Fish. No. 161,771; Nov. 21.
- Automobile locks. C. M. Grey Mfg. Co. No. 153,738; Mar. 28.
- Automobile locks. Johnson Automobile Lock Company. No. 155,895; June 6.
- Automobile locks. Security Manufacturing Company. No. 152,628; Feb. 28.
- Automobile luggage and tire carriers. Interlock Hardware Company. No. 157,112; July 25.
- Automobile parts and accessories, Certain. F. G. Withrow. No. 153,075; Mar. 7.
- Automobile radiator caps. L. H. Smith. No. 160,669; Oct. 24.
- Automobile radiator-solution testers. Beckley-Ralston Co. No. 154,878; May 16.
- Automobile radiators, Leak-stopping compound for. T. Dolan. No. 153,699; Mar. 28.
- Automobile rim tools. R. D. Hughes. No. 154,975; May 16.
- Automobile running-board mats, Coco-fiber. Mat Company. No. 155,339; May 23.
- Automobile seat covers. Keep Klean Kover Co. No. 160,547; Oct. 24.
- Automobile service tools. Miller Tool & Mfg. Co. No. 159,441; Sept. 26.
- Automobile spotlights, Controlling device for. H. J. Segur. No. 151,942; Feb. 14.
- Automobile springs. Cincinnati Horse Shoe & Iron Co. No. 160,412; Oct. 24.
- Automobile springs of the leaf type. Jenkins Vulcan Spring Co. No. 162,786; Dec. 26.
- Automobile steering mechanism, Locks for. Karlok Manufacturing Company. No. 155,246; May 23.
- Automobile steering-wheel lock. Packard Engineering Company. No. 162,101; Dec. 5.
- Automobile taxicabs. Yellow Cab Manufacturing Co. No. 151,414; Jan. 31.
- Automobile theft alarms, Electrically-operated. Vibralarm Mfg. Company. No. 162,400; Dec. 12.
- Automobile tire covers. Allen Auto Specialty Co. No. 154,818; May 9.

Alphabetical list of trade-marks—Continued.

- Automobile top dressing, mohair dressing, and windshield-
vision preparation. American Motor Chemical Cor-
poration. No. 162,468; Dec. 19.
- Automobile tops and curtains. Buob and Scheu. No.
162,694; Dec. 26.
- Automobile tops and curtains. Windows or lights for.
Soss Manufacturing Co. No. 162,652; Dec. 19.
- Automobile tops. Preservative dressing or stain for.
Preservotop Auto Specialty Co. No. 152,954; Mar. 7.
- Automobile towing dollies. Weaver Manufacturing Com-
pany. No. 153,630; Mar. 21.
- Automobile vans and motor trucks. J. P. Lehrer. No.
151,841; Feb. 14.
- Automobile wheel locks. J. W. Shepard. No. 161,835;
Nov. 21.
- Automobile wheel rim and certain rim attachments.
Daly Manufacturing Company. No. 151,295; Jan. 24.
- Automobile windshields from becoming coated over with
rain, etc., Preparation to prevent. R. G. Potter. No.
162,580; Dec. 19.
- Automobile windshields. Glare shields attachable to. B.
H. Dyer. No. 154,016; Apr. 4.
- Automobile windshields. Shade for eliminating glare upon.
W. Welshhausen. No. 160,720; Oct. 24.
- Automobiles. Barley Motor Car Company. No. 153,113;
Mar. 14.
- Automobiles. Carvel & Buquor. No. 160,408; Oct. 24.
- Automobiles. F. I. A. T. No. 160,477; Oct. 24.
- Automobiles. Fulton Motors Corporation. Nos. 157,337-8;
Aug. 1.
- Automobiles. H. C. S. Motor Car Company. No. 159,896;
Oct. 10.
- Automobiles. H. P. M. Motors Incorporated. No. 160,589;
Oct. 24.
- Automobiles. Hupp Motor Car Corporation. No. 155,451;
May 30.
- Automobiles. Jewett Motors. No. 160,540; Oct. 24.
- Automobiles. Kissel Motor Car Company. No. 153,220;
Mar. 14.
- Automobiles. Lexington Motor Company. No. 156,890;
July 18.
- Automobiles. Revere Motor Car Corporation. No.
155,907; June 6.
- Automobiles. Rickenbacker Motor Company. No.
154,670; Apr. 18.
- Automobiles. Sheridan Motor Car Company. No. 160,665;
Oct. 24.
- Automobiles. Simplex Automobile Company. No. 159,761;
Oct. 3.
- Automobiles. Simplex Automobile Company. No. 160,666;
Oct. 24.
- Automobiles. Société Anonyme des Anciens Etablisse-
ments Secqueville & Hoyau. No. 153,306; Mar. 14.
- Automobiles. Winfield Barnes Company. No. 153,073;
Mar. 7.
- Automobiles and automobile parts. Fox Motor Car Com-
pany. No. 160,485; Oct. 24.
- Automobiles and constructive parts thereof. Star Motors
Incorporated. No. 160,681; Oct. 24.
- Automobiles and motor cycles. Vauxhall Motors, Lim-
ited. No. 157,400; Aug. 1.
- Automobiles and motor trucks. Gearless Motor Corpora-
tion. No. 161,015; Oct. 31.
- Automobiles and motor trucks. Northway Motors Corpora-
tion. No. 157,161; July 25.
- Automobiles and their structural parts. Gray Motor
Corporation. No. 157,083; July 25.
- Automobiles, Bodies and cabs for truck and passenger.
Automotive Manufacturers Associates. No. 160,381;
Oct. 24.
- Automobiles, bodies, and tops. Closed. Cole Motor Car
Co. No. 159,680; Oct. 3.
- Automobiles, Electric signal and tail lights for use on.
U. S. Automobile Indicator Co. No. 153,552; Sept. 5.
- Automobiles, Electric signal lamps for. F. Hitchcock.
No. 155,713; June 6.
- Automobiles, Filling attachments for tanks placed under
the seats of. Go-Itte Manufacturing Company. No.
162,764; Dec. 26.
- Automobiles, Key-locking radiator caps for. W. A. Hanna.
No. 155,974; June 13.
- Automobiles, motor cars and trucks, and parts thereof.
Durant Motor Company of New York. No. 154,764;
May 2.
- Automobiles, motor-propelled trucks, etc. G. A. Coats.
No. 160,418; Oct. 24.
- Automobiles, motor trucks. Winton Company. No.
152,009; Feb. 14.
- Automobiles or other mechanisms, Devices for locating
the cause of knocks or sounds in. E. R. Benson Manu-
facturing Co. No. 150,733; Jan. 10.
- Automobiles, Passenger. Marsh Motor Car Company. No.
152,225; Feb. 21.
- Automobiles, Passenger. Standard Steel Car Company.
No. 153,623; Mar. 21.
- Automobiles, Passenger. Yellow Cab Manufacturing Co.
No. 153,362; Mar. 14.
- Automobiles, Passenger pleasure. R. J. Jones & Co.
No. 159,918; Oct. 10.
- Automobiles, Remanufactured. Triangle Motors Incorpo-
rated. No. 160,694; Oct. 24.
- Automobiles, Side windshields for. Schonberg Manufac-
turing Company. No. 162,885; Dec. 26.
- Automobiles, Timing gears for. Perfection Timing Gear
Company. No. 157,625; Aug. 8.
- Automobiles, trucks, etc., Accessory and repair devices
and parts for. Overseas Motor Service Corporation.
No. 154,121; Apr. 4.
- Automotive parts. Parts Service Company. No. 156,728;
July 11.
- Automotive parts. The Parts Service Company. No.
159,472; Sept. 26.
- Awl tools for shoemakers and leather workers, Com-
bination. W. Pass. No. 157,278; July 25.
- Awls, drivers, sewing-machine needles. United Shoe
Machinery Corporation. No. 153,888; Mar. 28.
- Awnings, tents, flags, tarpaulins. W. B. Starkloff. No.
151,963; Feb. 14.
- Axles. Pierce-Arrow Motor Car Company. No. 159,735;
Oct. 3.
- Axles and brake carriers, Motor-vehicle. Torbensen Axle
Company. No. 153,625; Mar. 21.
- Axles for vehicles. The Standard Parts Company. Nos.
153,312-13; Mar. 14.
- Axles, Vehicle. Wisconsin Parts Company. No. 160,743;
Oct. 24.
- Babbitt and antifriction metals. Great Western Smelting
& Refining Co. No. 153,929; Mar. 28.
- Babbitt, bearing, and antifriction metals and alloys. Mag-
nolia Metal Company. No. 159,429; Sept. 26.
- Babbitt metal and anvils and self-hardening tool steel.
Fairbanks Company. No. 153,716; Mar. 28.
- Baby bath robes, dresses, bunting, or wrap. Reliable
Kiddy Wear Company. No. 156,400; June 20.
- Baby carriages, baby-carrying baskets or bodies, and auto-
mobile baby carriers. Cozy Baby Carriage Company.
No. 160,437; Oct. 24.
- Baby exercisers. F. M. Haskins. No. 154,963; May 16.
- Baby outfits. Polkase Mfg. Co. No. 156,912; July 18.
- Baby pants. H. Stein & Company. No. 157,587; Aug. 8.
- Bacon. John Morrell & Company. No. 150,483; Jan. 3.
- Bacon, fresh pork, and sausage. John Morrell & Company.
No. 151,881; Feb. 14.
- Bacon, Packaged. Joseph Stern & Sons, Inc. No. 162,903;
Dec. 26.
- Bacon, sausage, pigs' feet, etc. Geo. A. Harmel & Co.
No. 152,827; Mar. 7.
- Bacon, smoked belly, sausage, etc. Indianapolis Abattoir
Company. No. 152,198; Feb. 21.
- Bacteria, Liquid cultures of nitrifying. Nitro-Bacter
Soil Vaccine Corporation. No. 161,573; Nov. 14.
- Bag and twine holders, pie racks, etc. Wickwire Spencer
Steel Corporation. No. 150,646; Jan. 3.
- Bag, purse, and pocketbook frames. J. E. Mergott Com-
pany. No. 150,473; Jan. 3.
- Bagging manufactured from jute fiber. American Manu-
facturing Company. No. 161,042; Nov. 7.
- Bags and purses and parts of same, Chatelaine. S. G.
Mandalian. No. 151,344; Jan. 31.
- Bags, boxes, and cases, Certain. Hauser & Weil. No.
156,525; June 27.
- Bags, Burlap and cotton. Wertheimer Bag Company.
No. 159,240; Sept. 19.
- Bags, Gladstone. E. Dresner. No. 162,958; Dec. 26.
- Bags, Hand. Dexter Manufacturing Co. No. 158,934;
Sept. 19.
- Bags, Inflatable air. Perpetual Air Bag Co. No. 154,127;
Apr. 4.
- Bags, Ladies' hand. I. Warschauer. No. 159,148;
Sept. 19.
- Bags made of cloth. Amoskeag Manufacturing Company.
Nos. 150,220-1; Jan. 3.
- Bags made of cloth. Amoskeag Manufacturing Company.
No. 151,313; Jan. 31.
- Bags made of paper, Garment. H. P. Browning. No.
158,623; Sept. 12.
- Bags, Mesh. Whiting & Davis Company. No. 155,562;
May 30.
- Bags, Mesh. Whiting & Davis Company. No. 162,413;
Dec. 12.
- Bags, Metal mesh. Whiting & Davis Company. No.
159,154; Sept. 19.
- Bags, Mothproof garment. White Tar Company. No.
162,412; Dec. 12.
- Bags, Shopping. W. H. Deubener. Nos. 152,060-1;
Feb. 14.
- Bags, Shopping and paper. Carry-Ette Bag Company.
No. 150,280; Jan. 3.
- Bags, suitcases, and trunks, Hand. Dearborn Trunk &
Bag Co. No. 162,713; Dec. 26.
- Bags, suitcases, pocketbooks, Leather. Aircraft Leather
Goods Company. No. 158,600; Sept. 12.
- Baggage equipment, Certain. Tophams. No. 161,646;
Nov. 14.
- Bait, Artificial. O. C. Tuttle. No. 156,450; June 20.
- Bait, Artificial. O. C. Tuttle. No. 157,597; Aug. 8.
- Bake stuffs and prepared foods. W. M. Zorn. No.
154,747; Apr. 18.
- Bakeries, Certain machinery for. Champion Machinery
Co. No. 156,641; July 11.
- Bakery machinery, Certain. Jaburg-Miller Co. No.
151,515; Feb. 7.
- Bakery products. Holland-American Wafer Co. No.
152,825; Mar. 7.
- Bakery products. Remar Company. No. 150,534; Jan. 3.
- Bakery products. Sun Lite Bakeries System, Inc. No.
159,547; Sept. 26.

- Baking machines and parts of machines for making wafer biscuits, etc. Bates Engineering Company. No. 161,916; Nov. 28.
- Baking powder. Beech-Nut Packing Company. No. 157,307; Aug. 1.
- Baking powder. Calumet Baking Powder Company. No. 21,792; renewed Sept. 27, 1922.
- Baking powder. O. F. Crim. No. 157,484; Aug. 8.
- Baking powder. Dresden Baking Powder Company. No. 150,338; Jan. 3.
- Baking powder. Empire Food Products Company. No. 157,327; Aug. 1.
- Baking powder. Jellico Grocery Company. No. 159,913; Oct. 10.
- Baking powder. L. B. Kochman. No. 150,438; Jan. 3.
- Baking powder. Laird Mfg. Co. No. 157,353; Aug. 1.
- Baking powder. McCarthy Brothers. No. 156,334; June 20.
- Baking powder and soda. Wabash Baking Powder Company. No. 155,856; June 6.
- Baking powder, cream of tartar, soda. J. A. Folger & Co. No. 152,172; Feb. 21.
- Bale ties, Tools for applying. Signode System, Inc. No. 161,837; Nov. 21.
- Ball markers, Golf. Hup Mfg. Co. No. 160,533; Oct. 24.
- Ball returns, Bowling-alley. Brunswick-Balke-Collender Company. No. 154,890; May 16.
- Balls, Bouncing. Eagle Rubber Co. No. 158,653; Sept. 12.
- Balls for athletic games, Playing. A. G. Spalding & Bros. No. 151,259; Jan. 31.
- Balls, Golf. Allied Golf Company. Nos. 153,642-3; Mar. 28.
- Balls, Golf. Allied Golf Company. No. 160,121; Oct. 17.
- Balls, Golf. Corona Rubber Manufacturing Co. No. 153,144; Mar. 14.
- Balls, Golf. Corona Rubber Manufacturing Co. No. 154,909; May 16.
- Balls, Golf. Dayton Company. No. 158,647; Sept. 12.
- Balls, Golf. Dunlop Tire and Rubber Corp. of America. No. 160,178; Oct. 17.
- Balls, Golf. Faultless Rubber Company. Nos. 160,473-4; Oct. 24.
- Balls, Golf. J. V. Hogue. No. 157,977; Aug. 22.
- Balls, Golf. Holmac, Inc. No. 153,448; May 30.
- Balls, Golf. Holmac, Inc. No. 156,302; June 20.
- Balls, Golf. Holmac, Inc. No. 156,880; July 18.
- Balls, Golf. Holmac, Inc. No. 158,458; Sept. 5.
- Balls, Golf. Holmac, Inc. Nos. 159,903-5; Oct. 10.
- Balls, Golf. Holmac, Inc. No. 160,210; Oct. 17.
- Balls, Golf. Holmac, Inc. No. 162,521; Dec. 19.
- Balls, Golf. A. G. Spalding & Bros. No. 160,298; Oct. 17.
- Balls, Golf. St. Mungo Manufacturing Company of America. No. 156,434; June 20.
- Balls, Golf. John Wanamaker, New York. No. 152,538; Feb. 28.
- Balls, Golf. John Wanamaker, New York. No. 158,138; Aug. 22.
- Balls, Steel. Hoover Steel Ball Company. No. 160,098; Oct. 10.
- Balm for certain named purposes. A. F. Leonard & Co. No. 155,748; June 6.
- Bandages and supporters, Abdominal. E. J. Fayart. No. 154,931; May 16.
- Bandeaux. Chas. R. De Bevoise Co. No. 167,170; Oct. 17.
- Bands and petticoat waists, Drawer, petticoat, etc. Gilman B. Smith Company. No. 162,989; Dec. 26.
- Banjos. W. L. Lange. No. 161,889; Nov. 21.
- Banjos. Van Eps-Burr Corporation. No. 161,327; Nov. 7.
- Banjos. Vega Company. Nos. 161,828-9; Nov. 7.
- Bank, Portable savings. J. H. Greer. No. 154,957; May 16.
- Banks and safes, Small portable savings. Stronghart Company. No. 160,307; Oct. 17.
- Banks and safes, Small portable savings. Stronghart Company. No. 162,127; Dec. 5.
- Barbed wire, cashier cages, and stock-room inclosures, clamps, and clips for wire rope, etc. Wickwire Spencer Steel Corporation. No. 162,941; Dec. 26.
- Barium sulphate used in X-ray diagnosis, Preparation of. E. Merck. No. 161,806; Nov. 21.
- Barrels. Hydraulic Steel Company. No. 161,952; Nov. 28.
- Barrels and kegs and staves and heading therefor, Tight. Western Cooperage Co. No. 154,180; Apr. 4.
- Barrels, Steel. Panama Lubricants Company. No. 162,448; Dec. 12.
- Barrels with sheet-rubber linings. American Chemical Paint Company. No. 153,393; Mar. 21.
- Barytes, Powdered. Gabriel & Schall. No. 20,789; renewed Mar. 1, 1922.
- Baseball bats. Hilton Collins Co. Nos. 151,167-8; Jan. 24.
- Baseball game, Parlor. National Game Company, The. No. 157,548; Aug. 8.
- Baseballs. F. C. Cerrone. No. 161,926; Nov. 28.
- Baseballs. Thos. E. Wilson & Co. No. 152,552; Feb. 28.
- Baseballs, baseball bats and gloves, and footballs. Buetell Brothers Company. No. 157,467; Aug. 8.
- Basic materials used in the manufacture of refractory bricks, emery wheels, and emery wheels themselves. A. V. Gowen-Lescagne. No. 159,886; Oct. 10.
- Baskets, boxes, etc., Certain. C. A. Kuehn. No. 150,443; Jan. 3.
- Baskets, Woven. Minneapolis Society for the Blind. No. 162,317; Dec. 12.
- Bassinets, cribs, cradles, etc., Wheel. Gem Crib & Cradle Company. No. 151,772; Feb. 14.
- Bath compound for skin diseases and rheumatic pains, Medicinal. W. Message. No. 161,230; Nov. 7.
- Bath powder, Foot-. A. L. Porter. No. 158,284; Aug. 29.
- Bath robes. Herzog & Kramer. No. 158,981; Sept. 19.
- Bath robes. Infants' Ideal Bath Robe Co. No. 157,687; Aug. 15.
- Bath robes, Pullman and beach and house robes. M. Auerbach. No. 160,133; Oct. 17.
- Bath robes, sacks, buntings, etc., for infants. Onita Specialty Co. No. 154,648; Apr. 18.
- Bath robes, sacks, buntings, flannelettes. Onita Specialty Co. No. 156,033; June 13.
- Bathroom fixtures. Fairfacts Company. No. 162,070; Dec. 5.
- Bathroom fixtures and enameled ware, Certain. Whyt E Naml Specialty Co. No. 159,586; Sept. 26.
- Bathroom fixtures, Certain wire and steel. E. H. Titchener & Co. No. 156,072; June 13.
- Bathroom fixtures of porcelain, Certain. S. D. Baker. No. 159,271; Sept. 26.
- Bath salts. Cheramy, Incorporated. No. 157,315; Aug. 1.
- Bathroom shelving, cup racks, soap racks, etc. Superior Brass N. C. No. 158,305; Aug. 29.
- Bath tablets. Triumph Mfg. Co. No. 153,883; Mar. 28.
- Bath tablets and odorizers. A. Schwarzbart. No. 161,290; Nov. 7.
- Bathtubs, Babies'. W. J. Jackson. No. 154,445; Apr. 11.
- Bathtubs, lavatories, etc., Porcelain and enamel. Plumbers Supply Company. No. 152,951; Mar. 7.
- Bathing caps, belts, rubber household gloves. Miller Rubber Company. No. 156,351; June 20.
- Bathing suits. Long Island Knitting Mills Co. No. 158,734; Sept. 12.
- Bathing suits. Myers Manufacturing Co. No. 154,639; Apr. 18.
- Bathing suits. Myers Manufacturing Co. No. 158,036; Aug. 22.
- Bathing suits. Oliver Knitting Company. No. 157,166; July 25.
- Bathing suits and play suits. O'Shea Knitting Mills. No. 156,035; June 13.
- Bathing suits and sweater coats, Men's, women's, and children's. Pacific Knitting Mills. No. 158,162; Aug. 22.
- Bats, Baseball. Hillerich & Bradsby Co. No. 152,426; Feb. 28.
- Bats, Baseball. Hilton Collins Company. Nos. 150,845-6; Jan. 10.
- Bats, Baseball. Hilton Collins Co. No. 151,321; Jan. 31.
- Bats, Baseball. Hilton Collins Co. Nos. 158,701-2; Sept. 12.
- Batteries and connectors therefor and battery charges, Secondary. Westinghouse Union Battery Co. No. 161,001; Oct. 31.
- Batteries and parts thereof, Electric storage. Unique Brass Foundry Company. No. 160,988; Oct. 31.
- Batteries and storage-battery boxes and containers, Storage. Stewart Storage Battery Company. No. 160,979; Oct. 31.
- Batteries, Chemical solution for use in electric storage. Chicago Chemical Company. No. 155,312; May 23.
- Batteries, Dry. Franco Electric Corporation. No. 152,589; Feb. 28.
- Batteries, Dry. W. T. Grant Company. No. 158,447; Sept. 5.
- Batteries, Dry. Languth-Olson Co. No. 153,225; Mar. 14.
- Batteries, Dry. National Carbon Company. No. 155,771; June 6.
- Batteries, Electric. American Steel Export Company. No. 152,658; Mar. 7.
- Batteries, Electric. Burgess Battery Company. No. 162,952; Dec. 26.
- Batteries, Electric. Magno Storage Battery Co. No. 155,757; June 6.
- Batteries, Electric. National Carbon Company. No. 152,617; Feb. 28.
- Batteries, Electric. Sunbeam Electric Manufacturing Co. No. 153,014; Mar. 7.
- Batteries, Electric storage. D. Levitt. No. 162,292; Dec. 12.
- Batteries, Electrical secondary. A. E. Phillips. No. 153,278; Mar. 14.
- Batteries, Liquid charge for storage. Lyvewyre Company. No. 160,909; Oct. 31.
- Batteries, Liquids for charging and recharging. Uradia Company. No. 158,131; Aug. 22.
- Batteries, Solution for all makes of lead-plate. Why-Sol Battery Solution Company. No. 152,007; Feb. 14.
- Batteries, Storage. Charles William Stores, Inc. No. 158,403; Sept. 5.
- Batteries, Storage. Electrolyte Storage Battery Co. No. 162,154; Dec. 5.
- Batteries, Storage. Eureka Battery Company. No. 160,859; Oct. 31.
- Batteries, Storage. Merrimac Battery Plate Co. No. 162,312; Dec. 12.
- Batteries, Storage. J. S. Neidich. No. 160,934; Oct. 31.
- Batteries, Storage. W. S. Nott Company. No. 155,788; June 6.

Alphabetical list of trade-marks—Continued.

- Batteries, Storage. Ray Battery Company. No. 153,289; Mar. 14.
- Batteries, Storage. Simmons Hardware Company. No. 156,755; July 11.
- Batteries, Storage. R. C. Switzer. No. 150,694; Jan. 3.
- Batteries, Wet storage. Universal Battery Company. No. 150,991; Jan. 10.
- Battery and electric lighting plants and switchboards. Worthington Pump and Machinery Corporation. No. 155,874; June 6.
- Battery and electric lighting plants, switchboards. Worthington Pump and Machinery Corporation. No. 156,790; July 11.
- Battery boxes. Silurium Manufacturing Company. No. 156,754; July 11.
- Battery chargers. Westinghouse Electric & Manufacturing Company. No. 155,866; June 6.
- Battery chargers and electrical rectifiers. Westinghouse Union Battery Co. No. 158,569; Sept. 5.
- Battery containers. Ahbell Battery Container Corporation. No. 151,415; Feb. 7.
- Battery plates, Lead. Continental Battery Company. No. 158,417; Sept. 5.
- Battery separator. E. P. Fay. No. 152,767; Mar. 7.
- Battery solution, Liquid. Energy Electrolyte Co. No. 155,680; June 6.
- Battery, storage-battery parts, and battery supplies. Storage. Chain Battery Supply Co. No. 155,638; June 6.
- Beads used as jewelry. N. M. Kirshner. No. 162,285; Dec. 12.
- Beans and pork and canned fruits. Great Atlantic and Pacific Tea Company. No. 160,510; Oct. 24.
- Beans of all kinds. Dried. Trinidad Bean and Elevator Company. No. 150,624; Jan. 3.
- Beans, sugar, food oils, etc. G. C. Crassopoulos. No. 151,729; Feb. 14.
- Bearing metal in pig form. Ackermite Company of America. No. 160,355; Oct. 24.
- Bearing, type, and white metals; solders, and white-metal alloys. Connecticut Metal & Chemical Co. No. 162,056; Dec. 5.
- Bearings and bushings. Buckeye Brass and Manufacturing Company. No. 157,016; July 25.
- Bearings, Antifriction. J. Schaeffers. No. 161,904; Nov. 21.
- Bearings, Ball. R. I. V. Co. No. 162,112; Dec. 5.
- Bearings for automobiles, etc., Automatic adjusters for. J. F. Rose. No. 156,744; July 11.
- Bearings, Journal. Oregon Brass Works. No. 156,034; June 13.
- Bearings, pistons, piston, wrist, and fan-pulley pins, gears, etc. Kanouse & Foote. No. 159,393; Sept. 26.
- Bearings, shafts, arbors, and bearing parts, Antifriction. A. E. Leon. No. 159,410; Sept. 26.
- Beautifier, rouge, shampoo, hair tonic, depilatory, eyebrow pencil. Colonial Dames Beautifier Company. No. 157,907; Aug. 22.
- Bed clothing. Miller Bros. & Company. No. 155,258; May 23.
- Bedpans, syringes, sputum flasks. Meinecke & Co. No. 154,203; Apr. 4.
- Bedspreads. Aurora Bed Spread Co. No. 157,860; Aug. 22.
- Bedspreads. Marshall Field & Company. No. 152,226; Feb. 21.
- Bedspreads. Marshall Field & Company. No. 153,789; Mar. 28.
- Bedspreads. Marshall Field & Company. No. 155,005; May 16.
- Bedspreads. Victor Monaghan Co. No. 162,999; Dec. 26.
- Bedspreads and couch covers. F. C. Huyck & Sons. No. 152,197; Feb. 21.
- Bedspreads and pillow shams. Marshall Field & Company. Nos. 161,551-5; Nov. 14.
- Bedspreads and pillow shams. Marshall Field & Company. Nos. 162,822-4; Dec. 26.
- Bed springs. Baltimore Bed Co. No. 153,368; Mar. 14.
- Bed springs. Gangelhoff Bros. No. 156,593; July 4.
- Bed springs. Mitchell and Mitchell Manufacturing Company. No. 157,544; Aug. 8.
- Bed springs. Northwestern Bedding and Manufacturing Co. No. 151,888; Feb. 14.
- Bed springs. Perfection Mattress & Spring Co. No. 158,164; Aug. 22.
- Bed springs. Union Bed and Spring Company. No. 159,134; Sept. 19.
- Bedsteads and cribs. Metal. Mersereau Metal Bed Company. No. 151,869; Feb. 14.
- Bedsteads, couches, etc. K. Tarah. No. 153,439; Mar. 21.
- Bedding, cushions, bedsteads, upholstery and bed springs. Certain. Robinson-Rodgers Co. No. 155,516; May 30.
- Beds. Auto porch. Schaefer Tent & Awning Co. No. 150,566; Jan. 3.
- Beds, bed springs, cots, mattresses, pillows, etc., Iron. National Mattress Co. No. 159,046; Sept. 19.
- Beds, Concealable. American Automatic Lock and Lift Company. No. 155,594; June 6.
- Beds, cribs, couches, and springs and mattresses therefor, Metal. Quality Mattress Company. No. 151,919; Feb. 14.
- Beds, cribs, etc. Crescent Bed Co. No. 162,710; Dec. 26.
- Beds, tables, and chairs. Stoll Mfg. Co. No. 156,555; June 27.
- Beds, Wall. Rip Van Winkle Wall Bed Company. No. 162,355; Dec. 12.
- Beef and hog products. Nelson Morris & Co. No. 19,515; renewed May 10, 1921.
- Beef, Corned. Libby, McNeill & Libby. No. 153,229; Mar. 14.
- Beef extract. Menley & James Limited. No. 162,828; Dec. 26.
- Beef, Smoked. P. J. Ausberger. No. 162,471; Dec. 19.
- Beer. American Brewing Company. No. 20,306; renewed Nov. 3, 1921.
- Beer. Christian Moerlein Brewing Co. Nos. 161,927-30; Nov. 28.
- Beer. Christian Moerlein Brewing Co. Nos. 162,484-5; Dec. 19.
- Beer. Christian Moerlein Brewing Co. No. 162,704; Dec. 26.
- Beer and near beer. United States Brewing Company. No. 159,561; Sept. 26.
- Beer extract, Nonalcoholic. Pierre Lemoine Cie. No. 153,279; Mar. 14.
- Beer, malt tonic, sirup, and extracts, etc., Nonalcoholic near. Val Blatz Brewing Company. No. 157,399; Aug. 1.
- Beer or malt cereal beverages, Near. Pabst Brewing Company. No. 162,331; Dec. 12.
- Beer, Preservative for. A. Boake, Roberts & Co. No. 21,782; renewed Sept. 27, 1922.
- Bell and electric-lamp socket used as a signal device, Combined. L. A. Freedman. No. 159,185; Sept. 19.
- Belt dressing. Cantol Wax Company. No. 155,390; May 30.
- Belt dressing. Crescent Belt Fastener Company. No. 159,614; Sept. 26.
- Belt dressing. Marshall Oil Company of Iowa. No. 155,761; June 6.
- Belt dressing. Re-Nu-M Manufacturing Co. No. 157,747; Aug. 15.
- Belt dressing. F. Ryan. No. 162,357; Dec. 12.
- Belt hooks. J. D. Sawyer. No. 159,506; Sept. 26.
- Belt preservative. Colonial Leather Company. No. 162,216; Dec. 12.
- Belting. Security Rubber and Belting Company. No. 160,013; Oct. 10.
- Belting. Security Rubber and Belting Company. No. 161,291; Nov. 7.
- Belting and bindings. Dress and skirt. Owl Specialty Co. No. 150,510; Jan. 3.
- Belting, Canvas. Rosendale-Reddaway Belting & Hose Co. No. 160,647; Oct. 24.
- Belting, Fasteners, plates, etc., for machinery. Crescent Belt Fastener Company. No. 154,911; May 16.
- Belting, Fibrous or rubber. Boston Woven Hose & Rubber Company. No. 160,399; Oct. 24.
- Belting for automobile fans and power transmission. Hide, Leather & Belting Co. No. 160,524; Oct. 24.
- Belting, hose, machinery packing, and nonmetallic tires. Doermann-Roehrer Co. No. 159,865; Oct. 10.
- Belting, hose, packing, etc. Wm. E. Hooper & Sons Co. No. 151,809; Feb. 14.
- Belting, Ladies' dress. Russell Manufacturing Company. No. 153,516; Mar. 21.
- Belting, Leather. J. Bachmann. No. 159,801; Oct. 10.
- Belting, Leather. Grant Leather Corporation. No. 157,080; July 25.
- Belting, Leather. Chas. A. Schieren Company. No. 159,218; Sept. 19.
- Belting, Leather. Chas. A. Schieren Company. No. 160,658; Oct. 24.
- Belting, Leather. Graton & Knight Manufacturing Company. No. 159,887; Oct. 10.
- Belting, Leather. Himmelein & Bailey. No. 160,525; Oct. 24.
- Belting, Leather. E. F. Houghton & Co. No. 160,531; Oct. 24.
- Belting, Machine. Manhattan Rubber Mfg. Co. No. 156,536; June 27.
- Belting, Machine. F. Reddaway & Co. No. 21,538; renewed Aug. 2, 1922.
- Belting preservative, Leather and fabric. Cavanagh Manufacturing Co. No. 157,652; Aug. 15.
- Belting, Rubber, fabric, and leather. M. I. Wilcox Company. No. 160,075; Oct. 10.
- Belting, Textile. Buckner Process Company. No. 159,823; Oct. 10.
- Belting, Woven machine. F. Raddaway & Co. No. 21,346; renewed June 21, 1922.
- Belts. D. M. Wright. No. 162,625; Dec. 19.
- Belts and belting for automobile and power transmission. Farran-Kinney Company. No. 159,874; Oct. 10.
- Belts and belting of rubber and fabric, Transmission. B. F. Goodrich Company. No. 151,387; Jan. 31.
- Belts. Automobile textile fan. Raydeo Belt Co. No. 157,184; July 25.
- Belts, belting, and elastic. Governor Fastener Company. No. 161,490; Nov. 14.
- Belts for driving automobile fans and other machinery. The B. F. Goodrich Company. No. 154,036; Apr. 4.
- Belts for men, women, and children. Hauser & Weil. No. 157,262; July 25.
- Belts for men, women, and children. Hauser & Weil. No. 161,157; Nov. 7.
- Belts for personal wear. G. M. Poix, Inc. No. 151,911; Feb. 14.
- Belts for supporting outer garments. Marathon Tire & Rubber Company. No. 155,760; June 6.

- Belts, Men's and women's. Williamsport Leather Goods Company. No. 160,814; Oct. 24.
- Belts, Sanitary. H. & M. Mfg. Company. No. 161,947; Nov. 28.
- Belts, Waist. Knothe Brothers Co. No. 157,816; Aug. 15.
- Benches. M. C. Bachelier. No. 158,887; Sept. 19.
- Benches, Piano. Tonk Manufacturing Co. No. 151,974; Feb. 14.
- Benzin. Noco Petroleum Company. No. 152,915; Mar. 7.
- Beverage and compound for flavoring the same, Nonalcoholic. Eng-Skell Company. No. 151,125; Jan. 24.
- Beverage and extract for making same. Star Extract Works. No. 158,104; Aug. 22.
- Beverage and extracts and sirups for making the same, Nonalcoholic. F. P. White. No. 154,182; Apr. 4.
- Beverage and extracts, flavors, and colors for making the same, Nonalcoholic. Southern California Supply Company. No. 158,816; Sept. 12.
- Beverage and flavoring for same. Nonalcoholic maltless. F. M. Fleischer. No. 150,819; Jan. 10.
- Beverage and flavoring therefor, Nonalcoholic fruit. W. K. Earle. No. 158,429; Sept. 5.
- Beverage and powder for making same, Nonalcoholic. "Pep" Laboratory. No. 152,480; Feb. 28.
- Beverage and sirup and extract for making same. F. M. Bonheim. No. 157,872; Aug. 22.
- Beverage and sirup for making same. California Grape Products Co. No. 150,276; Jan. 3.
- Beverage and sirup for making same. San Antonio Beverage Syrup Co. No. 155,281; May 23.
- Beverage and sirup for making same. Van Rouge Co. No. 150,632; Jan. 3.
- Beverage and sirup for making same, Nonalcoholic. T. B. Kane. No. 151,828; Feb. 14.
- Beverage and sirup for making same, Nonalcoholic, maltless. R. J. Shine. No. 152,042; Feb. 14.
- Beverage and sirup for making same, Nonalcoholic, noncereal, maltless. L. F. Furcotte. No. 160,697; Oct. 24.
- Beverage and sirup for making same, Nonalcoholic, noncereal, maltless. S. Schusterman. No. 151,226; Jan. 24.
- Beverage and sirup for making the same. S. Davis. No. 157,920; Aug. 22.
- Beverage and sirup for making the same, Nonalcoholic. M. Ashcroft. No. 157,858; Aug. 22.
- Beverage and sirup for making the same, Nonalcoholic, maltless. Z. L. Glenn. No. 155,427; May 30.
- Beverage and sirup for manufacturing same. Chemical Works Brugg, Limited. No. 155,212; May 23.
- Beverage and sirup for same, Nonalcoholic, maltless. Southern Fruit Julep Co. Nos. 151,049-51; Jan. 10.
- Beverage and sirup from which it is prepared. J. H. Ewing. No. 150,353; Jan. 3.
- Beverage and sirup, Nonalcoholic. Hurty-Peck & Company. No. 156,881; July 18.
- Beverage and sirup therefor. J. E. Fowler. No. 152,588; Feb. 28.
- Beverage and sirup therefor, Fruit. Cincinnati Beverage and Products Co. No. 156,507; June 27.
- Beverage and sirup therefor, Nonalcoholic, maltless. H. Jage. No. 153,765; Mar. 28.
- Beverage and sirups and extracts for making same, Nonalcoholic maltless. Standard Bottling Company. No. 158,103; Aug. 22.
- Beverage and sirups for making same. American Bottling & Soda Water Co. No. 157,848; Aug. 22.
- Beverage and sirups for making same. C. L. Beardsley. No. 150,760; Jan. 10.
- Beverage and sirups for making same. Irondequoit Fruit Juice Co. No. 157,988; Aug. 22.
- Beverage and sirups for making same. O-R. Pieper Co. No. 159,985; Oct. 10.
- Beverage and sirups for making same. Theonett & Co. No. 157,217; July 25.
- Beverage and sirups for making same, Fruit. Hamburger Co. No. 157,969; Aug. 22.
- Beverage and sirups for making same, Nonalcoholic. J. Mulhern Company. No. 150,908; Jan. 10.
- Beverage and sirups for making same, Nonalcoholic maltless fruit. Chicago Fountain Soda Water Company. No. 152,715; Mar. 7.
- Beverage and sirups for making same, Nonalcoholic, noncereal, maltless. Keen Kola Manufacturing Company. No. 152,032; Feb. 14.
- Beverage and sirups for preparing same. Omar Co. No. 154,119; Apr. 4.
- Beverage and sirups for preparing same. Western Wholesale Drug Co. No. 154,181; Apr. 4.
- Beverage and sirups therefor, Nonalcoholic. J. A. Ware. No. 153,628; Mar. 21.
- Beverage and sirups used in preparation of same, Nonintoxicating, nonalcoholic, noncereal. Pittsfield Coca Cola Bottling Corporation. No. 160,624; Oct. 24.
- Beverage, Cereal malt. Anaheim Manufacturing Company. No. 151,015; Jan. 10.
- Beverage, Cereal malt. J. A. Hieronimus & Sons. No. 154,970; May 16.
- Beverage clarifier, Malt. C. F. Varney. No. 162,459; Dec. 12.
- Beverage, Combination of malt extract, etc., used in making. L. L. Balch. No. 151,076; Jan. 24.
- Beverage, Concentrated material brewed from malt and hops suitable for making a malt. New England Brewing Company. No. 157,551; Aug. 8.
- Beverage made of fruit juices and sirups for making same. John Chmiel Co. No. 160,541; Oct. 24.
- Beverage, Maltless, carbonated, chocolate. Anheuser-Busch, Incorporated. No. 151,072; Jan. 24.
- Beverage, Maltless carbonated coffee. Anheuser-Busch, Incorporated. No. 160,127; Oct. 17.
- Beverage, Maltless powder for making a nonalcoholic. A. Fonyo. No. 152,776; Mar. 7.
- Beverage, Nonalcoholic. Choc-Lo Co. No. 158,638; Sept. 12.
- Beverage, Nonalcoholic. A. Colletti. No. 152,371; Feb. 28.
- Beverage, Nonalcoholic. F. L. Hendrickson. No. 154,968; May 16.
- Beverage, Nonalcoholic. C. P. Johnson. No. 150,424; Jan. 3.
- Beverage, Nonalcoholic, cereal, malt. Consumers Brewing Company Ltd. No. 160,339; Oct. 17.
- Beverage, Nonalcoholic malt. O. E. Maurer. No. 150,899; Jan. 10.
- Beverage, Nonalcoholic malt cereal. J. W. Sappington. No. 158,081; Aug. 22.
- Beverage, Nonalcoholic maltless. A/S Tuborgs Fabrikker. No. 158,120; Aug. 22.
- Beverage, Nonalcoholic maltless. Grape Ola Products Corporation. No. 157,967; Aug. 22.
- Beverage, Nonalcoholic maltless. Iroquois Beverage Corporation. No. 151,145; Jan. 24.
- Beverage, Nonalcoholic, maltless. C. P. Johnson. No. 151,821; Feb. 14.
- Beverage, Nonalcoholic maltless. Limpert Bros. Inc. No. 150,885; Jan. 10.
- Beverage, Nonalcoholic, maltless. Moon Beverage Company. No. 151,346; Jan. 31.
- Beverage, Nonalcoholic, maltless. G. V. Moseley. No. 152,037; Feb. 14.
- Beverage, Nonalcoholic maltless. Orange Smile Sirup Company. No. 152,933; Mar. 7.
- Beverage, Nonalcoholic, maltless. S. Washer. No. 153,629; Mar. 21.
- Beverage, Nonalcoholic, maltless, celery tonic. M. Sopshin. No. 158,101; Aug. 22.
- Beverage, Nonalcoholic, maltless, fruit-juice. Western Fruit Products Co. No. 160,723; Oct. 24.
- Beverage, Nonalcoholic, noncereal, maltless. H. J. Kubik. No. 151,393; Jan. 31.
- Beverage, Nonalcoholic, noncereal maltless. Thomas W. Larkin & Co. No. 157,532; Aug. 8.
- Beverage, Nonalcoholic, noncereal, maltless. D. B. Nigg. No. 153,808; Mar. 28.
- Beverage, Nonalcoholic, noncereal, maltless. C. D. Vreeland. No. 155,359; May 23.
- Beverage, Nonalcoholic, noncereal, maltless. W. T. Wagner's Sons Company. No. 155,554; May 30.
- Beverage, Noncereal, nonalcoholic, maltless. E. & H. Silverman. No. 158,094; Aug. 22.
- Beverage, Nonintoxicating. Henry-Brown Company. No. 161,882; Nov. 21.
- Beverage, Nonintoxicating maltless. M. Pitzl. No. 151,212; Jan. 24.
- Beverage, Nonintoxicating maltless. George Ringler & Co. No. 157,571; Aug. 8.
- Beverage of pure fruit juices, Nonalcoholic maltless. Northwest Fruit Products Co. No. 156,899; July 18.
- Beverage or drink, Nonalcoholic maltless. Leiber, Max & Company. No. 156,889; July 18.
- Beverage sold as a soft drink. Arkola Company. No. 155,195; May 23.
- Beverage sold as a soft drink. Coca Cola Bottling Company. No. 156,208; June 20.
- Beverage sold as a soft drink. Crown Brewing Co. No. 158,419; Sept. 5.
- Beverage sold as a soft drink. Garrett & Co. No. 157,415; Aug. 1.
- Beverage sold as a soft drink. F. Harwell. No. 158,159; Aug. 22.
- Beverage sold as a soft drink. W. C. Hathaway. No. 158,578; Sept. 5.
- Beverage sold as a soft drink. E. M. Lowman. No. 160,907; Oct. 31.
- Beverage sold as a soft drink. E. M. Lowman. No. 161,891; Nov. 21.
- Beverage sold as a soft drink. Oertel Co. No. 161,972; Nov. 28.
- Beverage sold as a soft drink. Purity Beverage Company. No. 160,631; Oct. 24.
- Beverage sold as a soft drink. Rising Sun Brewing Co. No. 160,803; Oct. 24.
- Beverage sold as a soft drink. Rising Sun Brewing Co. No. 162,019; Nov. 28.
- Beverage sold as a soft drink and sirup for making same. W. H. Elam. No. 158,656; Sept. 12.
- Beverage sold as a soft drink and sirup for same, Carbonated. Orange-Smash Co. No. 157,276; July 25.
- Beverage sold as a soft drink and sirup therefor. E. Diehl. No. 159,616; Sept. 26.
- Beverage sold as a soft drink and sirup therefor. H. Silverman. No. 159,642; Sept. 26.
- Beverage sold as a soft drink and sirup therefor. Southern California Supply Co. No. 159,643; Sept. 26.
- Beverage sold as a soft drink and sirups used in the preparation of same. C. L. Beardsley. Nos. 156,176-8; June 20.

Alphabetical list of trade-marks—Continued.

- Beverage sold as a soft drink, Nonalcoholic, maltless. Parkway Bottling Co., Inc. No. 157,558; Aug. 8.
- Beverage sold as soft drink and sirup for making same. F. H. Keron. No. 161,704; Nov. 14.
- Beverage sold as soft drink and sirup for making the same. G. M. Causey. No. 161,925; Nov. 28.
- Beverage sold as soft drink and sirups for making same. Mouquin Restaurant and Wine Company. No. 157,427; Aug. 1.
- Beverage sold as soft drink and sirups used in making same. Los Angeles Ice & Cold Storage Co. No. 161,959; Nov. 28.
- Beverage sold as soft drink and sirups used in preparation of same and a concentrate. Henry-Brown Co. No. 161,160; Nov. 7.
- Beverage sold as soft drinks and sirup for same. Kimberly Club Sherry Co. No. 158,580; Sept. 5.
- Beverages. K. P. Hilander. No. 154,050; Apr. 4.
- Beverages. R. Hill. No. 154,051; Apr. 4.
- Beverages. Pittsburgh Brewing Company. Nos. 152,948-9; Mar. 7.
- Beverages and concentrates and compounds for making same. Orange Crush Company. No. 162,330; Dec. 12.
- Beverages and mineral-spring waters. Nonalcoholic. Nemarket Mineral Spring Company. No. 152,907; Mar. 7.
- Beverages and purified drinking water. Nonalcoholic. Electrozone Water Company. No. 157,049; July 25.
- Beverages and sirups. Jacob House & Sons. No. 151,334; Jan. 31.
- Beverages and sirups. L. Steinberger. No. 156,553; June 27.
- Beverages and sirups for flavoring same. Eng-Skell Company. No. 152,760; Mar. 7.
- Beverages and sirups for making same. Card-Martin Company. No. 156,505; June 27.
- Beverages and sirups for making same. Cherry Blossom Mfg. Co. Nos. 153,988-99; Apr. 4.
- Beverages and sirups for making same. Cherry Pride Company. No. 157,895; Aug. 22.
- Beverages and sirups for making same. J. E. Fowler. No. 152,065; Feb. 14.
- Beverages and sirups for making same. F. Greenwood, Inc. No. 157,968; Aug. 22.
- Beverages and sirups for making same. Home Bottling Works. No. 154,056; Apr. 4.
- Beverages and sirups for making same. John Mulhern Co. No. 156,015; June 13.
- Beverages and sirups for making same. Patterson Mineral Water & Beverage Co. No. 151,204; Jan. 24.
- Beverages and sirups for making same. Kemer-Dell Products Corporation. No. 156,682; July 11.
- Beverages and sirups for making same. Nonalcoholic. Diamond Bottling Corporation. No. 152,387; Feb. 28.
- Beverages and sirups for making same. Nonalcoholic. T. B. Kane. No. 150,861; Jan. 10.
- Beverages and sirups for making same. Nonalcoholic, maltless. M. Carbone. No. 155,393; May 30.
- Beverages and sirups for making same. Nonalcoholic, noncereal, maltless. Cherry Blossom Mfg. Co. Nos. 157,893-4; Aug. 22.
- Beverages and sirups for making same. Nonalcoholic, noncereal, maltless. Coca-Cola Bottling Distributing Co. No. 160,155; Oct. 17.
- Beverages and sirups for making the same. Nonalcoholic. Cherry Blossom Mfg. Co. Nos. 158,631-6; Sept. 12.
- Beverages and sirups for making the same. Nonalcoholic, noncereal, maltless. Clauss-Broeker Co. No. 158,154; Aug. 22.
- Beverages and sirups for manufacture of same. Nonalcoholic. Orange-Smash Co. No. 156,141; June 13.
- Beverages and sirups for the same. Nonalcoholic, noncereal. Coca Cola Bottling Distributing Co. No. 150,362; Jan. 3.
- Beverages and sirups. Nonalcoholic, noncereal maltless. Standard Bottling Company. No. 151,249; Jan. 24.
- Beverages and sirups sold as soft drink. Ginseng Bottling Co., The. No. 157,416; Aug. 1.
- Beverages and sirups therefor. Jos. Middleby, jr., Inc. No. 157,543; Aug. 8.
- Beverages and sirups therefor. Nonalcoholic. Savannah Beverage & Ice Co. No. 155,075; May 16.
- Beverages and sirups used in preparation of same. Primalt Products Co. No. 159,991; Oct. 10.
- Beverages, Carbonated. Eilert Beverage Company. No. 154,925; May 16.
- Beverages, Certain nonintoxicating, noncereal, maltless. S. W. Brown Company. No. 161,085; Nov. 7.
- Beverages in containers. Nonalcoholic. P. Kolbe. No. 151,154; Jan. 24.
- Beverages, Malt cereal. Adolph Coors B. & M. Company. No. 152,309; Feb. 21.
- Beverages, Malt extract, gelatine, and hops for making. L. Spencer. No. 157,436; Aug. 1.
- Beverages, Malt extracts for use in making nonalcoholic. S. L. Goldman. No. 154,955; May 16.
- Beverages, Maltless carbonated. Anaheim Bottling Works. No. 160,365; Oct. 24.
- Beverages, more specifically soda water. Grone & Co. No. 159,889; Oct. 10.
- Beverages, Nonalcoholic. Ohio Valley Bottling Works. No. 158,273; Aug. 29.
- Beverages, Nonalcoholic maltless. Forbes Bottling Co. No. 162,504; Dec. 19.
- Beverages, Nonalcoholic, maltless. H. C. Hubbard Co. No. 155,572; May 30.
- Beverages, Nonalcoholic, maltless. Modern Beverage Company. No. 160,584; Oct. 24.
- Beverages, Nonalcoholic, maltless. The Ricco Company of America. No. 150,954; Jan. 10.
- Beverages, Nonalcoholic, maltless. River Nile Company. No. 152,039; Feb. 14.
- Beverages, Nonalcoholic maltless. Standard Bottling Co. No. 153,007; Mar. 7.
- Beverages, Nonalcoholic, maltless. Tenpenny Company. No. 155,098; May 16.
- Beverages, Nonalcoholic, maltless, cereal. Adolph Coors B. & M. Company. No. 156,155; June 20.
- Beverages, Nonalcoholic maltless flavoring for making. Davies, Rose & Co. Nos. 156,224-5; June 20.
- Beverages, Nonalcoholic, maltless, noncereal. Nevins-Frank Company. No. 150,915; Jan. 10.
- Beverages, Nonalcoholic, noncereal. A. Kuhnlenz. No. 150,873; Jan. 10.
- Beverages, Nonalcoholic, noncereal, maltless. C. W. Meisezahl. No. 155,254; May 23.
- Beverages, Nonintoxicating. G. W. Curtis, jr. No. 162,488; Dec. 19.
- Beverages, Preparations for making. B. E. C. Lyons. No. 154,089; Apr. 4.
- Beverages, sirups, and extracts. Nonalcoholic, maltless. Southern Beverage Company. No. 162,122; Dec. 5.
- Beverages sold as a soft drink. H. C. Schranck Co. No. 158,530; Sept. 5.
- Beverages sold as a soft drink. Gebr. Zuppinger. No. 158,573; Sept. 5.
- Beverages sold as drinks and extracts and sirups for making the same. Delaware Punch Company of Texas. No. 161,868; Nov. 21.
- Beverages sold as soft drink and sirup therefor. J. H. Starboard. No. 161,723; Nov. 14.
- Beverages sold as soft drinks. S. & J. Angert Bros. No. 157,854; Aug. 22.
- Beverages sold as soft drinks. G. C. Cook. No. 157,912; Aug. 22.
- Beverages sold as soft drinks. Elia Gabay & Co. No. 160,494; Oct. 24.
- Beverages sold as soft drinks. Hatfield & Bell. No. 160,519; Oct. 24.
- Beverages sold as soft drinks. I. S. Kleiner. No. 162,801; Dec. 26.
- Beverages sold as soft drinks. Real Fruit Beverage Co. No. 155,061; May 16.
- Beverages sold as soft drinks. G. Tsagarakis. No. 160,031; Oct. 10.
- Beverages sold as soft drinks and flavors and extracts for making same. Keystone Fruit Products Company. No. 160,551; Oct. 24.
- Beverages sold as soft drinks and sirup for making same and sirup. Nonalcoholic, maltless. N. L. Hall. No. 158,697; Sept. 12.
- Beverages sold as soft drinks and sirup for making the same. Card-Martin Co. No. 158,336; Aug. 29.
- Beverages sold as soft drinks and sirups and concentrates for making same. Citrus Products Co. No. 158,917; Sept. 19.
- Beverages sold as soft drinks and sirups for making same. California Bottling Co. No. 160,146; Oct. 17.
- Beverages sold as soft drinks and sirups for making same. Cherry Blossom Mfg. Co. Nos. 162,040-54; Dec. 5.
- Beverages sold as soft drinks and sirups for making same. R. C. Dillmore. No. 159,617; Sept. 26.
- Beverages sold as soft drinks and sirups for making same. R. C. Dillmore. No. 162,230; Dec. 12.
- Beverages sold as soft drinks and sirups for making same. Grain Juice Company. No. 160,200; Oct. 17.
- Beverages sold as soft drinks and sirups for making same. Mountvale Company. No. 161,968; Nov. 28.
- Beverages sold as soft drinks and sirups for making same. J. W. Poole. No. 159,062; Sept. 19.
- Beverages sold as soft drinks and sirups for making same. Pure Products Syrup Corporation. No. 158,779; Sept. 12.
- Beverages sold as soft drinks and sirups for making same. Wood & Selick, Inc. No. 156,475; June 20.
- Beverages sold as soft drinks and sirups for making the same. Cherry Blossom Mfg. Co. Nos. 158,404-9; Sept. 5.
- Beverages sold as soft drinks and sirups for making the same. Cherry Blossom Mfg. Co. No. 160,846; Oct. 31.
- Beverages sold as soft drinks and sirups for making the same. F. Hoffman & Sons, Inc. No. 157,265; July 25.
- Beverages sold as soft drinks and sirups for making the same. C. Koch. No. 160,554; Oct. 24.
- Beverages sold as soft drinks and sirups for making the same. Porter Bros. No. 160,272; Oct. 17.
- Beverages sold as soft drinks and sirups therefor. J. H. Starbird. No. 159,217; Sept. 19.
- Beverages sold as soft drinks and sirups used in preparation of same. Frutrite Products Company. No. 161,142; Nov. 7.
- Beverages sold as soft drinks and sirups used in preparation of same. Henry-Brown Company. No. 161,161; Nov. 7.
- Beverages sold as soft drinks and sirups used in preparation of same. McAvoy Company. No. 161,799; Nov. 21.

- Beverages sold as soft drinks and sirups used in preparation of same. Redondo Packing Corp. No. 159,639; Sept. 26.
- Beverages sold as soft drinks and sirups used in preparation of the same. Independent Breweries Company. No. 160,534; Oct. 24.
- Beverages sold as soft drinks, Nonalcoholic. L. Weinfeld. No. 157,442; Aug. 1.
- Beverages sold as soft drinks, sirups and extracts therefor. J. J. McLaughlin Limited. No. 157,425; Aug. 1.
- Bibs and aprons, Children's. A. M. Dunsworth. No. 155,953; June 13.
- Bicycles. Myerow Bros. No. 160,592; Oct. 24.
- Bicycles. Worcester Electric Supply Co. No. 160,754; Oct. 24.
- Bicycles and parts thereof. Westfield Manufacturing Company. No. 157,244; July 25.
- Bicycles. Power-driven. Cyclometer Corporation. No. 152,578; Feb. 28.
- Bill-file holders, and memoranda holders for desks, etc. A. G. Mackey. No. 160,569; Oct. 24.
- Billiard and pocket tables. Excel Mfg. Company. No. 152,584; Feb. 28.
- Billiard supplies and sporting goods. Atlanta Billiard Supply Co. No. 153,968; Apr. 4.
- Binders and abdominal supporters. K. L. Storm. No. 161,382; Nov. 7.
- Binders and bound blank books and indexes. Looseleaf. National Blank Book Co. No. 160,596; Oct. 24.
- Binders, blank books, clipboards, copy cloths, etc. Rockwell-Barnes Company. No. 158,076; Aug. 22.
- Bindings. Novelty bias. Bias Narrow Fabric Company. No. 155,621; June 6.
- Binocular optical instruments. A. Perrin. No. 158,281; Aug. 29.
- Binoculars, field glasses, telescopes, etc. G. Mayerle. No. 156,346; June 20.
- Bird gravel. J. O. Johnson. No. 155,993; June 13.
- Bird seeds and foods. Heger Bird Co. No. 152,422; Feb. 28.
- Biscuit. National Biscuit Company. Nos. 152,240-2; Feb. 21.
- Biscuit. National Biscuit Company. No. 162,840; Dec. 26.
- Biscuit and bakery products. Tru-Blu Biscuit Company. No. 150,625; Jan. 3.
- Biscuit, cakes, and baker products. Tru-Blu Biscuit Co. No. 150,626; Jan. 3.
- Biscuit, wafers, soda crackers, fig bars, gingersnaps. Southwest Cracker Co. No. 159,644; Sept. 26.
- Biscuits. National Biscuit Company. No. 159,452; Sept. 26.
- Biscuits and crackers. Ekstrom & Linne Baking Co. No. 152,754; Mar. 7.
- Biscuits and crackers. National Biscuit Company. No. 153,610; Mar. 21.
- Biscuits, cakes, oatcakes, rusks, and shortbread. McVitie & Price Limited. No. 160,790; Oct. 24.
- Bismuth, Basic gallate of. Farbwerke, vormals Meister, Lucius & Bruning. No. 20,156; renewed Sept. 22, 1921.
- Black and galvanized sheets. United Alloy Steel Corporation. No. 158,125; Aug. 22.
- Blank books, pads, ledger binders, stenographers' notebooks, etc. Guild Products Corporation. No. 159,364; Sept. 26.
- Blank business forms for receiving indicia and memorandum pads. W. S. Ferdon. No. 161,770; Nov. 21.
- Blank forms and binders suited to the needs of bottling plants, Specially designed bookkeeping. J. W. Markham. No. 151,395; Jan. 31.
- Blanks and blank books. A. R. Maul. No. 150,898; Jan. 10.
- Blankets. Beacon Manufacturing Company. No. 157,000; July 25.
- Blankets, comfortable, bath-robe flannel, and blanket goods in the piece. Certain. Beacon Manufacturing Company. No. 157,864; Aug. 22.
- Blankets, comforters, and quilts. Woolen. Philipsborn's, Inc. No. 161,588; Nov. 14.
- Blankets, Cotton and wool. Estate of John E. Townsend. No. 156,932; July 18.
- Blankets. Gray cotton. Tremont & Suffolk Mills. No. 158,118; Aug. 22.
- Blankets, robes and rugs. Cotton and wool. Wolfboro Mills. No. 158,868; Sept. 12.
- Blankets, robes, rugs, ribbons, comfortable, and mattress protectors. Esmond Mills. No. 159,694; Oct. 3.
- Blankets, Textile hospital. J. W. Filman. No. 155,228; May 23.
- Blankets, traveling rugs, and blanket goods. Beacon Manufacturing Company. No. 159,658; Oct. 3.
- Blankets, Wool and cotton. Chatham Manufacturing Company. No. 150,285; Jan. 3.
- Blankets, wool in piece for making bath robes, blankets, and shawls, etc. Pendleton Woolen Mills. No. 156,730; July 11.
- Blankets. Woolen. I. Ginzkey-Maffersdorf, Inc. Nos. 157,958-60; Aug. 22.
- Blankets. Woolen. I. Ginzkey-Maffersdorf. No. 158,222; Aug. 29.
- Blankets. Woolen. Oregon City Mfg. Co. No. 156,544; June 27.
- Bleach, Face. Plough Chemical Company. No. 155,508; May 30.
- Bleaching and decolorizing material. Celite Products Company. No. 154,240; Apr. 11.
- Bleaching and disinfecting fluid, Laundry. W. H. Marzahl. No. 154,326; Apr. 11.
- Bleaching and water-softening preparation. Joseph Crossfield & Sons. No. 161,445; Nov. 14.
- Bleaching compounds. Carpenter-Morton Company. No. 161,092; Nov. 7.
- Bleaching hats, Chemical compound for. S. C. Markatos. No. 153,788; Mar. 28.
- Bleaching materials. O. Osten. No. 158,048; Aug. 22.
- Blood medicine and cancer salve. S. J. Sparks. No. 160,809; Oct. 24.
- Blood purifier and cleanser and system builder. Hart-Shaw-Miller Drug Company. No. 157,516; Aug. 8.
- Blood purifier and nerve tonic. D. J. Gunter. No. 161,152; Nov. 7.
- Blood purifier, cleanser, and system builder. Hart-Shaw-Miller Drug Company. No. 157,341; Aug. 1.
- Blood purifiers, tonics, and conditioners for horses, cows, etc. Day, Son & Hewitt, Limited. No. 158,931; Sept. 19.
- Bloomers. Hollander Company. No. 161,367; Nov. 7.
- Bloomers. Vanity Fair Silk Mills. No. 154,727; Apr. 18.
- Bloomers, brassières, step-ins, etc., Ladies'. F. Rosenberg. No. 161,607; Nov. 14.
- Bloomers, Children's. Oppenheim Oberndorf & Co. No. 151,201; Jan. 24.
- Bloomers, children's coveralls, and sleeping garments. Winget Manufacturing Co. No. 158,867; Sept. 12.
- Bloomers, vests, union suits, Knitted and woven. L. Bing. No. 154,492; Apr. 18.
- Blotter blocks or pads. Tennessee Fibre Co. No. 161,844; Nov. 21.
- Blotters, pencils, and memorandum pads. Brown & Bigelow. No. 159,292; Sept. 26.
- Blouses and waists. Deutz & Ortenberg. No. 154,528; Apr. 18.
- Blouses and waists, Women's. Sears, Roebuck & Co. No. 157,201; July 25.
- Blouses, bloomers, skirts, knickers, etc., for females. Kenilworth Manufacturing Co. No. 159,002; Sept. 19.
- Blouses, children's dresses, and boys' wash suits. Middy. Maas & Kemper, Inc. No. 158,007; Aug. 22.
- Blouses, dresses, etc. Straus, Royer & Strass, Inc. No. 154,711; Apr. 18.
- Blouses, Ladies'. H. Metzler. No. 158,021; Aug. 22.
- Blouses, shirts, and playsuits, Boys'. Reliance Manufacturing Company. No. 155,807; June 6.
- Blowers, gas, water, and vacuum pumps, Rotary. P. H. & F. M. Roots Co. No. 153,840; Mar. 28.
- Blue, Laundry. Standard Ultramarine Co. No. 153,871; Mar. 28.
- Blue, Laundry. Standard Ultramarine Co. No. 154,394; Apr. 11.
- Blue or bluing, Laundry. Scherer, Burnell & Scherer, Inc. No. 159,086; Sept. 19.
- Blue, Ultramarine. Standard Ultramarine Co. No. 156,431; June 20.
- Bluing. J. H. Brauer. No. 157,311; Aug. 1.
- Bluing. Condensed Bluing Company. No. 155,652; June 6.
- Bluing. Condensed Bluing Company. No. 156,216; June 20.
- Bluing. J. R. Council. No. 155,656; June 6.
- Bluing. M. Nedlin. No. 152,243; Feb. 21.
- Bluing compound. W. E. Martin. No. 152,227; Feb. 21.
- Blues for laundry purposes. Aniline. H. Kohnstamm & Co. No. 161,192; Nov. 7.
- Boards, Folding pressing. Hoe Corporation. No. 152,823; Mar. 7.
- Boards, panels of wood, etc. Fiat. No. 160,478; Oct. 24.
- Boat lowering and hoisting gear, Mechanically-operated. George A. Vaughan & Co. No. 157,234; July 25.
- Boats. McIntyre Bros. No. 157,141; July 25.
- Boiler chemicals. Bird-Archer Company. No. 158,184; Aug. 29.
- Boiler compound. T. Hopkins. No. 156,441; June 20.
- Boiler compounds. J. H. Parsons Chemical Company. No. 151,571; Feb. 7.
- Boiler covering. Rutland Fire Clay Co. No. 160,281; Oct. 17.
- Boiler fittings and furnishings. Steam-. Reliance Gauge Column Company. No. 161,597; Nov. 14.
- Boiler, gas-engine, and radiator compound. Marvel Compound Company. No. 150,467; Jan. 3.
- Boiler incrustations. Composition for preventing and removing. L. F. Edwards. No. 153,711; Mar. 28.
- Boiler-tube cleaners. Worcester Brush and Scraper Company. No. 153,080; Mar. 7.
- Boilers and radiators, Composition for removing scale from. C. J. Allen. No. 156,156; June 20.
- Boilers, brick-set and portable ranges, cookstoves, etc., Elevated. A. Weiskittel & Son. No. 22,379; renewed Jan. 24, 1923.
- Boilers, Copper range. Hayes Manufacturing Co. No. 153,592; Mar. 21.
- Boilers, Electric. Electric Boiler Corporation. No. 150,669; Jan. 3.
- Boilers, Preparation to prevent and remove scale in. Boiler-Kote Company. No. 153,577; Mar. 21.
- Boilers, Range. Detroit Range Boiler and Steel Barrel Co. No. 162,718; Dec. 26.

Alphabetical list of trade-marks—Continued.

- Boilers, Range. Pennsylvania Range Boiler Co. No. 162,855; Dec. 26.
- Boilers, Range. Riverside Boiler Works, Inc. No. 159,640; Sept. 26.
- Boilers, Steam. J. P. Badenhausen. No. 152,049; Feb. 14.
- Boilers, Steam. J. P. Badenhausen. No. 160,134; Oct. 17.
- Boilers, Tubular gas. Bryant Heater and Manufacturing Co. No. 160,142; Oct. 17.
- Boilers, Water heaters for steam, vapor, and hot-water. White Manufacturing Company. No. 161,386; Nov. 7.
- Boilers, Water-tube. Heine Safety Boiler Co. Nos. 151,163-5; Jan. 24.
- Boilers, Water-tube. Heine Safety Boiler Co. No. 153,197; Mar. 14.
- Bolt clippers. H. K. Porter. No. 153,825; Mar. 28.
- Bolts. Automatic Bearing Co. No. 157,454; Aug. 8.
- Bolts, anchor rail bolts, and clamps used with anchor rails, stringers, and metal sections. Midwest Steel & Supply Co. No. 152,879; Mar. 7.
- Bolts and nuts. C. L. Hervey. No. 150,668; Jan. 3.
- Bolts and nuts, chain, woven-wire fencing. John Dunn Son and Co. No. 153,702; Mar. 28.
- Bolts, Expansion. L. Montgomery. No. 154,995; May 16.
- Bolts, Expansion. R. S. Peirce. No. 152,483; Feb. 28.
- Bolts, track, frog, and switch bolts, and nuts. Stay. Flannery Bolt Company. No. 158,342; Aug. 29.
- Bonbon coating. White-Stokes Company. No. 156,082; June 13.
- Bonds, interest coupons, etc. General Securities Corporation. No. 153,453; Mar. 21.
- Bonds, Printed. Payson & Payson. No. 153,509; Mar. 21.
- Boning, steels, and staving materials. Mightybone Corporation of New York. Nos. 151,871-2; Feb. 14.
- Boning, steels, and staves for certain clothing. Mightybone Corporation. No. 151,298; Jan. 24.
- Book covers. M. L. Stoughton. No. 160,980; Oct. 31.
- Book, Traveler's expense. Beach Publishing Co. No. 160,386; Oct. 24.
- Bookholders. W. Mockridge. No. 155,262; May 23.
- Booklet of recipes. Printed. Baker Extract Company. No. 153,402; Mar. 21.
- Booklet or house organ. P. H. McCabe. No. 158,351; Aug. 29.
- Booklets and small text cards. Rhodes-Marden Corporation. No. 159,069; Sept. 19.
- Books and catalogues, Lesson. National Poultry Institute, Inc. No. 157,722; Aug. 15.
- Books and circulars. Printed. Allied Labor Press Association. No. 155,188; May 23.
- Books and maps. Printed. C. S. Loeber. No. 152,034; Feb. 14.
- Books, Blank account. F. A. Koenig. No. 159,404; Sept. 26.
- Books, Blank account. W. D. Smith. No. 159,530; Sept. 26.
- Books, Blank home-budget. Menter Co. No. 158,019; Aug. 22.
- Books, booklets, pamphlets, catalogues, and similar publications. Nourse Company. No. 150,053; Sept. 19.
- Books, Combined check and account. W. J. Palmer. No. 159,471; Sept. 26.
- Books, Completely-printed. Brockmann & Company. No. 155,208; May 23.
- Books, Expense-account. H. B. Goodman. No. 154,956; May 16.
- Books for keeping household inventory, etc. C. W. Hoy. No. 154,060; Apr. 4.
- Books, Gift record. R. M. Place. No. 156,731; July 11.
- Books in a continuing series. McLoughlin Bros. Inc. No. 159,425; Sept. 26.
- Books, loose-leaf ledger sheets, bill heads, statements, etc., Blank. F. W. Erhard. No. 155,955; June 13.
- Books, more particularly dictionaries. G. & C. Merriam Company. Nos. 157,818-23; Aug. 15.
- Books, Note and memorandum. Wilson-Jones Loose Leaf Company. No. 153,072; Mar. 7.
- Books, pamphlets, and circulars devoted to photoplay information, etc. Palmer Photoplay Corporation. No. 157,735; Aug. 15.
- Books, pamphlets, and like printed publications. Methodist Child Welfare Society. No. 162,314; Dec. 12.
- Books, pamphlets, and photographs. Printed. M. B. Dickinson. No. 162,493; Dec. 19.
- Books, pamphlets, catalogues, printed and engraved matter, etc. Essex Press, Inc. No. 151,750; Feb. 14.
- Books, Printed. C. N. Bourne. No. 159,287; Sept. 26.
- Books, Printed. Matthew Bender & Company. No. 158,892; Sept. 19.
- Books, Protective coverings for. A. T. Walraven Book Cover Company. No. 153,557; Mar. 21.
- Books published in series. Printed. E. P. Dutton & Company. Nos. 158,651-2; Sept. 12.
- Books published in series. Printed. E. P. Dutton & Co. No. 162,239; Dec. 12.
- Books published periodically, Series of. Grosset & Dunlap. Nos. 151,787-8; Feb. 14.
- Books, Series of. Grosset & Dunlap, Inc. No. 162,257; Dec. 12.
- Books, Series of text-. N. A. Dukes. No. 150,346; Jan. 3.
- Boot and shoe taps. Wilder & Company. No. 154,738; Apr. 18.
- Boot, shoe, and leather polishes, etc. Yankee Polish Co. No. 155,568; May 30.
- Boots and shoes. James A. Bannister Company. No. 150,243; Jan. 3.
- Boots and shoes. E. J. Bliss. No. 161,068; Nov. 7.
- Boots and shoes. B. Brown. Nos. 161,351-2; Nov. 7.
- Boots and shoes. J. W. Carter & Co. No. 159,174; Sept. 19.
- Boots and shoes. J. W. Carter & Co. Nos. 161,093-4; Nov. 7.
- Boots and shoes. Converse Rubber Shoe Company. No. 150,781; Jan. 10.
- Boots and shoes. V. A. Delamere. No. 162,153; Dec. 5.
- Boots and shoes. Wm. Filene's Sons Company. No. 155,961; June 13.
- Boots and shoes. A. Freedman & Sons. No. 160,140; Nov. 7.
- Boots and shoes. J. E. French Company. No. 162,155; Dec. 5.
- Boots and shoes. Johansen Brothers Shoe Company. No. 154,592; Apr. 18.
- Boots and shoes. A. E. Little Co. No. 158,732; Sept. 12.
- Boots and shoes. Peters Shoe Company. No. 20,737; renewed Feb. 16, 1922.
- Boots and shoes. Rubberhide Company. No. 156,408; June 20.
- Boots and shoes. Rubberhide Company. No. 157,195; July 25.
- Boots and shoes. Selby Shoe Co. No. 161,620; Nov. 14.
- Boots and shoes. Tri-Flex Shoe Company. No. 157,225; July 25.
- Boots and shoes. United States Rubber Company. Nos. 154,721-2; Apr. 18.
- Boots and shoes. Wilson Process, Inc. No. 158,866; Sept. 12.
- Boots and shoes. Wilson Process, Inc. No. 159,156; Sept. 19.
- Boots and shoes and boot and shoe soles. Leather. Holland Shoe Co. No. 156,130; June 13.
- Boots and shoes. Children's leather. Foot, Schulze & Co. No. 162,075; Dec. 5.
- Boots and shoes, Infants' and children's. M. C. Hyman. No. 150,854; Jan. 10.
- Boots and shoes. Leather. John Bright Shoe Stores Co. No. 161,081; Nov. 7.
- Boots and shoes. Leather. Commonwealth Shoe and Leather Company. No. 157,030; July 25.
- Boots and shoes. Leather. Commonwealth Shoe and Leather Company. No. 162,956; Dec. 26.
- Boots and shoes. Leather. S. Elkind. No. 161,360; Nov. 7.
- Boots and shoes. Leather. Wm. Filene's Sons Company. No. 158,950; Sept. 19.
- Boots and shoes. Leather. Hamilton Brown Shoe Co. Nos. 154,561-2; Apr. 18.
- Boots and shoes. Leather. F. M. Hoyt Shoe Company. No. 154,578; Apr. 18.
- Boots and shoes. Leather. H. J. Justin & Sons. No. 161,181; Nov. 7.
- Boots and shoes. Leather. Juvenile Shoe Corporation of America. No. 154,590; Apr. 18.
- Boots and shoes. Leather. Knipe Bros., Inc. No. 159,007; Sept. 19.
- Boots and shoes. Leather. Leonard & Barrows. No. 157,533; Aug. 8.
- Boots and shoes. Leather. Lounsbury Soule Co. No. 156,003; June 13.
- Boots and shoes. Leather. H. O. Quick. No. 158,780; Sept. 12.
- Boots and shoes. Leather. Somervell Brothers, Limited. No. 150,974; Jan. 10.
- Boots and shoes. Leather, rubber, fabric, etc. P. A. Savi. No. 158,800; Sept. 12.
- Boots and shoes. Men's and women's. Ault-Williamson Shoe Co. No. 156,171; June 20.
- Boots and shoes. Misses', boys', and children's. Jordan Marsh Company. No. 162,160; Dec. 5.
- Boots and shoes of leather. Juvenile Shoe Corporation of America. No. 158,468; Sept. 5.
- Boots and shoes. Women's. Gregory & Read Company. No. 158,969; Sept. 19.
- Boots and shoes. Women's. Roth Shoe Manufacturing Company. No. 161,609; Nov. 14.
- Boots, shoes, and slippers. Abbott Shoe Company. No. 154,464; Apr. 18.
- Boots, shoes, and slippers. Abbott Shoe Co. No. 156,974; July 25.
- Boots, shoes, and slippers. J. W. Carter Chicago, Co. No. 155,944; June 13.
- Boots, shoes, and slippers. W. B. Coon Company. No. 154,520; Apr. 18.
- Boots, shoes, and slippers. Dorothy Dodd Shoe Company. No. 154,531; Apr. 18.
- Boots, shoes, and slippers. Plaut-Butler Company. No. 157,176; July 25.
- Boots, shoes, and slippers. Plaut-Butler Company. No. 161,261; Nov. 7.
- Boots, shoes, and slippers. Rice & Hutchins. No. 20,581; renewed Jan. 12, 1922.
- Boots, shoes, and slippers. M. Samuels & Co. No. 157,280; July 25.
- Boots, shoes, and slippers. Thomas G. Plant Company. No. 158,774; Sept. 12.
- Boots, shoes, and slippers. Thomas G. Plant Company. No. 161,262; Nov. 7.

- Boots, shoes, and slippers. Thompson Bros. Shoe Co. No. 154,714; Apr. 18.
- Boots, shoes, and slippers. United States Rubber Company; No. 150,990; Jan. 10.
- Boots, shoes, and slippers. Watson Shoe Company. No. 154,731; Apr. 18.
- Boots, shoes, and slippers, and soles therefor. Nath'l Fisher & Co. No. 152,098; Feb. 14.
- Boots, shoes, and slippers. Ladies' leather. Bartlett Somers Company. No. 154,486; Apr. 18.
- Boots, shoes, and slippers. Leather. A. E. Little Company. No. 161,370; Nov. 7.
- Boots, shoes, and slippers. Leather. W. H. McElwain Company. No. 154,618; Apr. 18.
- Boots, shoes, and slippers, Men's, women's, and children's. Cahill Shoe Company. No. 161,429; Nov. 14.
- Boots, shoes, slippers, and rubbers. Smith Shoe Co. No. 158,814; Sept. 12.
- Boots, shoes, leggings, spats, rubbers, gaiters, etc. H. Gordon. No. 157,078; July 25.
- Boots, shoes, overshoes, sandals, and hosiery. E. L. Hine. No. 154,574; Apr. 18.
- Boots, shoes, slippers. J. J. Grover's Sons Company. No. 157,089; July 25.
- Boots, shoes, slippers. Thomas G. Plant Company. Nos. 157,177-8; July 25.
- Boots, shoes, slippers, etc., of leather, fabric, etc. W. B. Coon Company. No. 151,024; Jan. 10.
- Boring tools and machines, reamers, milling machines, etc. Storm Manufacturing Company. No. 160,306; Oct. 17.
- Bottle and fruit treating machines and carbonating machines. Certain. McKenna Brass and Manufacturing Co. No. 150,889; Jan. 10.
- Bottle, can, biscuit-tin, etc., washers, dishwashers, milk-bottle fillers. Rice & Adams Corporation. No. 150,955; Jan. 10.
- Bottle-cap lifter. Milk. E. B. Hunziker. No. 153,206; Mar. 14.
- Bottle-capping machine. G. E. Whitney. No. 155,125; May 16.
- Bottle-capping machines. Sure Seal Bottle Capper Co. No. 156,066; June 13.
- Bottle caps. Chemische Fabrik von Heyden, Aktiengesellschaft. No. 160,410; Oct. 24.
- Bottle caps. Deutsche Capseln- & Zinnolot-Werke Gesellschaft mit beschränkter Haftung. No. 160,447; Oct. 24.
- Bottle caps, Metal. J. F. Lazier Mfg. Co. No. 152,855; Mar. 7.
- Bottle caps, seals, or stoppers. American Dan Stopper Company. No. 153,957; Apr. 4.
- Bottle, Nursing. G. L. Dunkelberger. No. 154,272; Apr. 11.
- Bottle screws. Scent. Mappin & Webb Limited. No. 160,572; Oct. 24.
- Bottle stoppers and lids. Thomas De La Rue and Company. No. 157,043; July 25.
- Bottle-washing machines. York Milk Machinery Company. No. 153,087; Mar. 7.
- Bottles and other containers. Closure disk for. Sealright Company. No. 162,887; Dec. 26.
- Bottles, fountain syringes, and combination water bottles and syringes. Hot-water. Worcester Pressed Aluminium Company. No. 161,674; Nov. 14.
- Bottles, Glass. Southern Glass Company. No. 160,020; Oct. 10.
- Bottles, Glass milk. W. L. Johnson. No. 157,114; July 25.
- Bottles, Glass milk. Thatcher Manufacturing Co. No. 161,846; Nov. 21.
- Bottles, Hot-water. R. Palmer. No. 152,932; Mar. 7.
- Bouillon cubes. Pure Food Specialty Corporation. No. 152,621; Feb. 28.
- Bow neckties. Hewes & Potter. No. 154,573; Apr. 18.
- Bowling alleys and device to be attached to return troughs for trapping and cleaning the balls. Self-cleaning pit mats for. W. Choinski. No. 155,213; May 23.
- Bowls, shades, chimneys, canopies, filters, etc. Eclipse Light Company. No. 154,824; May 9.
- Box or casing for milk bottles. Thomas J. Jenkins Mfg. Corp'n. No. 154,302; Apr. 11.
- Boxes and cartons. E. J. Trum, Inc. No. 151,367; Jan. 31.
- Boxes and like containers. Paton, Calvert & Co. No. 152,936; Mar. 7.
- Boxes and packing cases. Arlo Box Co. No. 152,666; Mar. 7.
- Boxes and packing cases. Wirebounds Corporation. No. 153,200; Mar. 14.
- Boxes and vases made of aluminum. Aluminium Walzwerke A.-G. No. 159,651; Oct. 3.
- Boxes, Assembled wooden. McPerson & Foster Co. No. 153,486; Mar. 21.
- Boxes, baskets, dishes, knives, forks, etc. Societe Francaise d'Orfèvrerie d'Art. No. 153,307; Mar. 14.
- Boxes, Bottle and packing. Republic Box Co. No. 151,357; Jan. 31.
- Boxes, Collapsible cardboard hat. Hoague-Sprague Corp. No. 150,401; Jan. 3.
- Boxes for valuables. Safety. Steel Can't Steal Box Corporation. No. 161,841; Nov. 21.
- Boxes, Gift. James H. Rook Co. No. 150,545; Jan. 3.
- Boxes, hair receivers, salve jars, etc., Powder, jewel, pin, and soap. James McCreery & Company. No. 162,818; Dec. 26.
- Boxes, Materials for strapping. Signode System, Inc. No. 161,624; Nov. 14.
- Boxes, Pasteboard. International Silver Company. No. 161,368; Nov. 7.
- Boxes, Strawboard. Standard Corrugated Box Co. No. 159,535; Sept. 26.
- Boxes, Tobacco. S. G. Tripp. No. 153,032; Mar. 7.
- Boxes, Vanity. Harriet Hubbard Ayer. Nos. 150,232-3; Jan. 3.
- Boxes, Vanity. Harriet Hubbard Ayer. Nos. 150,236-8; Jan. 3.
- Boxes, Vanity. Harriet Hubbard Ayer. Nos. 150,240-1; Jan. 3.
- Boxes, Wooden. John Schroeder Lumber Co. No. 153,523; Mar. 21.
- Brace, Body and shoulder. M. Mason. No. 155,011; May 16.
- Brace for a running-board support, automobile wheels, rims, and tires. E. Prehn. No. 162,869; Dec. 26.
- Bracelets. Cohn & Rosenberger, Inc. No. 161,440; Nov. 14.
- Bracelets. Ideal Jewelry Manufacturing Co. No. 152,831; Mar. 7.
- Braid. Novelty Braid & Trimming Co. No. 155,345; May 23.
- Braid, Gimp. Woodward & Cochey, Inc. No. 157,798; Aug. 15.
- Braids and articles of passementerie. Dollfus-Mieg & Cie. Société Anonyme. No. 151,739; Feb. 14.
- Braids and shoe laces. Hill and La Cross Company. No. 155,712; June 6.
- Braids, shoe and corset laces. C. P. Schaeffer. No. 151,937; Feb. 14.
- Brake and clutch linings. Raybestos Company. No. 152,107; Feb. 14.
- Brake and wood transmission linings, Wood. S. W. Akins. No. 159,794; Oct. 10.
- Brake bands, Lubricant for. Simons Manufacturing Company. No. 157,283; July 25.
- Brake lining. Bettet & Ebsen. No. 159,808; Oct. 10.
- Brake lining. Johns-Manville Incorporated. No. 154,065; Apr. 4.
- Brake lining. Manhattan Rubber Mfg. Co. No. 159,946; Oct. 10.
- Brake lining. Raybestos Company. No. 153,290; Mar. 14.
- Brake lining. Raybestos Company. No. 157,183; July 25.
- Brake linings. A. J. Conard. No. 157,032; July 25.
- Brake linings. Thermoid Rubber Company. No. 157,394; Aug. 1.
- Brakes for cycles, cycle hubs, and coaster brakes. New Departure Manufacturing Company. No. 160,603; Oct. 24.
- Brandy. Jules Robin & Co. No. 20,184; renewed Oct. 6, 1921.
- Brandy. E. Rémy Martin & Co. No. 20,561; renewed Jan. 5, 1922.
- Brass, bronze, and copper sheets, rods, rolls, etc. Rome Brass & Copper Co. No. 154,450; Apr. 11.
- Brass pipe. Bridgeport Brass Company. No. 159,289; Sept. 26.
- Brass rods. Bridgeport Brass Company. No. 157,465; Aug. 8.
- Brassière and girdle, Combined. M. J. Peabody. No. 153,274; Mar. 14.
- Brassières. Boyshform Brassiere Co. No. 162,001; Nov. 28.
- Brassières. Chas. R. De Bevoise Co. No. 160,169; Oct. 17.
- Brassières. Chas. R. De Bevoise Co. No. 161,450; Nov. 14.
- Brassières. S. Friedman. No. 163,962; Dec. 26.
- Brassières. E. H. Horwood & Co. No. 153,595; Mar. 21.
- Brassières. E. H. Horwood & Co. No. 155,155; May 16.
- Brassières. G. M. Poix, Inc. No. 150,931; Jan. 10.
- Brassières. G. M. Poix, Inc. No. 157,830; Aug. 15.
- Brassières. S. Rubin. No. 157,833; Aug. 15.
- Brassières. Seamless Brassiere Co. No. 155,778; May 16.
- Brassières. Wear Well Brassiere Co. No. 159,238; Sept. 19.
- Brassières and corsets. Kabo Company. No. 160,220; Oct. 17.
- Brassières and corsets. A. Zwiebelson. No. 151,011; Brassières and diaphragm supporters. Corset Supply House. No. 151,723; Feb. 14.
- Brassières, bandeaux, corsets, hip girdles, etc. Charles H. Scott Company. No. 156,051; June 13.
- Brassières, bandeaux, ready-made dress linings, waterproof aprons, baby pants, etc. C. Benedict Mfg. Co. No. 155,618; June 6.
- Brassières, corsets, and corset covers. Bonwit, Teller & Co. No. 162,950; Dec. 26.
- Brassières, corsets, corset waists, corset covers, dresses, waists, etc. American Lady Corset Co. No. 156,091; June 13.
- Brassières, Ladies'. F. Weinberg. No. 154,732; Apr. 18.
- Brazing flux. S. B. Atkinson. No. 154,219; Apr. 11.
- Bread. G. Barthelmie. No. 152,679; Mar. 7.
- Bread. F. A. Dexter. No. 153,583; Mar. 21.
- Bread. William Freihofer Baking Co. No. 162,943; Dec. 26.

Alphabetical list of trade-marks—Continued.

- Bread. General Baking Company. Nos. 159,878-9; Oct. 10.
- Bread. Hankey Baking Company. No. 159,367; Sept. 26.
- Bread. Herendeen Milling Company. No. 159,899; Oct. 10.
- Bread. Jacob Laub Baking Co. No. 162,781; Dec. 26.
- Bread. L. J. Johnson. No. 150,426; Jan. 3.
- Bread. F. Jungewaelter. No. 151,826; Feb. 14.
- Bread. P. P. Lisiecki. No. 151,850; Feb. 14.
- Bread. MacLachlan-Fowler Baking Co. No. 152,867; Mar. 7.
- Bread. R. Maurice & Co. No. 162,826; Dec. 26.
- Bread. Nafziger Baking Company. No. 156,487; June 20.
- Bread. Old Fashioned Millers, Inc. No. 152,102; Feb. 14.
- Bread. Schulze Baking Company. No. 162,886; Dec. 26.
- Bread. W. B. Siegrist. No. 157,581; Aug. 8.
- Bread. Taggart Baking Company. No. 151,970; Feb. 14.
- Bread. Uffelmann Baking Company. No. 159,648; Sept. 26.
- Bread. Ward Baking Company. No. 152,000; Feb. 14.
- Bread. Ward Baking Company. No. 152,290; Feb. 21.
- Bread. Ward Baking Company. No. 153,047; Mar. 7.
- Bread. Ward Baking Company. No. 157,793; Aug. 15.
- Bread. Ward Baking Company. Nos. 159,576-8; Sept. 26.
- Bread. Ward Baking Company. No. 161,660; Nov. 14.
- Bread. D. P. Woolley. No. 157,799; Aug. 15.
- Bread and rolls. Hazleton Baking Co. No. 155,443; May 30.
- Bread, biscuits, cake, etc. John J. Nissen Baking Company. No. 152,409; Feb. 28.
- Bread boxes. A. Kreamer Inc. No. 153,480; Mar. 21.
- Bread, Celery. F. J. Barrager. No. 152,121; Feb. 21.
- Bread, Dietary. Laporte & Gauthier. No. 159,715; Oct. 3.
- Bread, Potato rye. F. Jungewaelter. No. 151,827; Feb. 14.
- Bread products. W. B. Johnson. No. 161,512; Nov. 14.
- Bread, Rye. M. H. Wildstein. No. 159,587; Sept. 26.
- Bread, Wheat. Capshaf Bread Co. No. 159,305; Sept. 26.
- Breads and pastry. Oswald Jaeger Baking Co. No. 155,501; May 30.
- Brick. Twin City Brick Company. No. 159,774; Oct. 3.
- Brick and cementitious tile. Birmingham Slag Co. No. 152,351; Feb. 28.
- Brick and tile for metallurgical furnaces. Crescent Refractories Company. Nos. 156,589-91; July 4.
- Brick, cement, and tile, muffles, etc., Refractory. Carborundum Company. No. 159,675; Oct. 3.
- Brick for lining furnaces, ovens, etc., Fire. C. H. Puls. No. 159,742; Oct. 3.
- Brick for the wearing surface of road paving. J. R. Root. No. 156,046; June 13.
- Brick machines. Lancaster Iron Works, Inc. No. 161,795; Nov. 21.
- Bricks. Robert F. Martin Corporation. No. 160,348; Oct. 17.
- Bricks and paving blocks, Fire. Geo. S. Good Fire Brick Co. No. 160,507; Oct. 24.
- Brief cases, music rolls, music folders, and collar bags. United States Rubber Company. No. 154,408; Apr. 11.
- Brilliantine. E. Burnham, Inc. No. 159,670; Oct. 3.
- Brilliantine. E. Burnham, Inc. No. 161,086; Nov. 7.
- Brilliantine, face cream, toilet water, perfume. Cheramy, Incorporated. No. 153,680; Mar. 28.
- Brilliantine, face powder, face cream, toilet water, etc. Cheramy, Incorporated. No. 154,242; Apr. 11.
- Bristol board. J. W. Butler Paper Company. No. 156,504; June 27.
- Bristol board and paper, cardboard, writing paper, Wedding. B. D. Rising Company. No. 152,320; Feb. 21.
- Broadcloth piece goods. C. Bahnsen & Co. No. 155,202; May 23.
- Bronze liquids and certain paints and colors. Denny, Hilborn & Rosenbach. No. 152,057; Feb. 14.
- Bronzes and imitation bronzes. Imitation art. Ovington Bros. Company. No. 160,612; Oct. 24.
- Brooders and hovers. C. H. Landenberger. No. 159,926; Oct. 10.
- Brooders and incubators. R. F. Neubert Co. No. 156,541; June 27.
- Brooms. Alabama Broom and Mattress Co. No. 162,663; Dec. 26.
- Brooms. Amboy Products Co. No. 151,066; Jan. 24.
- Brooms. Atlantic Southwestern Broom Co. Nos. 151,016-7; Jan. 10.
- Brooms. Atlantic Southwestern Broom Co. Nos. 152,672-3; Mar. 7.
- Brooms. Lee Broom & Duster Company. No. 152,033; Feb. 14.
- Brooms. W. L. Martin Broom & Mop Co. Nos. 155,007-9; May 16.
- Brooms. Rich & France. No. 157,570; Aug. 8.
- Brooms. Rich & France. No. 160,644; Oct. 24.
- Brooms. Southwestern Broom Mfg. Co. No. 153,309; Mar. 14.
- Brooms. Windsor Broom Company. No. 152,554; Feb. 28.
- Brooms and flour brushes. Indianapolis Brush & Broom Mfg. Co. No. 154,197; Apr. 4.
- Brooms and mops. Thos. Hubback & Son. No. 151,175; Jan. 24.
- Brooms, dusting brushes, and wool dusters, Dusting. Wooleather Corp. No. 158,151; Aug. 22.
- Brooms, whisk brooms, and dusting brushes. Acme Broom Company. No. 161,997; Nov. 28.
- Brushes. Florence Manufacturing Company. No. 158,437; Sept. 5.
- Brushes. A. W. Hahn. No. 162,009; Nov. 28.
- Brushes. Newark Tortoise Shell Novelty Co. No. 162,326; Dec. 13.
- Brushes. Rubber & Celluloid Products Company. No. 151,221; Jan. 24.
- Brushes. Sanitax Brush Company. No. 156,412; June 20.
- Brushes. John L. Whiting-J. J. Adams Company. Nos. 160,329-32; Oct. 17.
- Brushes. Wooster Brush Company. No. 157,405; Aug. 1.
- Brushes. Wooster Brush Company. Nos. 159,596-7; Sept. 26.
- Brushes and brooms, powder puffs, and windshield cleaners, Certain. V. Vivaudou, Inc. No. 157,601; Aug. 8.
- Brushes and brooms, whisk brooms, toothbrushes, hairbrushes, etc., Floor. James McCreery & Company. No. 159,025; Sept. 19.
- Brushes, Artists'. M. Grumbacher. No. 156,523; June 27.
- Brushes, Artists'. M. Grumbacher. Nos. 156,801-3; July 11.
- Brushes, Artists'. M. Grumbacher. Nos. 158,686-94; Sept. 12.
- Brushes, Artists'. M. Grumbacher. No. 159,363; Sept. 26.
- Brushes, Bath. E. N. Lichtenstein. No. 162,164; Dec. 5.
- Brushes, Bedpan. Meinecke & Company. No. 153,380; Mar. 14.
- Brushes, brooms, and dusters. Thomson-Diggs Company. No. 153,329; Mar. 14.
- Brushes, brooms, and powder puffs, Certain. Minneapolis Drug Company. No. 156,486; June 20.
- Brushes, Certain. Lafayette Brush & Manufacturing Co. No. 160,556; Oct. 24.
- Brushes, Certain. Pittsburgh Plate Glass Company, Renous-Kleinle Division. No. 151,353; Jan. 31.
- Brushes, Certain toilet. Kyoto Manufacturing & Trading Co. No. 152,605; Feb. 28.
- Brushes, dusters, and daubers. Fuller Brush Company. No. 151,132; Jan. 24.
- Brushes, dustless mops, and dusters, Sanitary wire-gripped. J. H. Nortridge. No. 162,100; Dec. 5.
- Brushes for painting, varnishing, etc. John L. Whiting-J. J. Adams Company. Nos. 160,044-73; Oct. 10.
- Brushes, Hair and cloth. E. I. du Pont de Nemours & Company. Nos. 153,587-8; Mar. 21.
- Brushes, Hair, cloth, flesh, and nail. Atlantic Comb Works. No. 158,381; Sept. 5.
- Brushes, Hair, clothes, and shoe. Diack Bros. No. 159,330; Sept. 26.
- Brushes, Hair, tooth, hat, etc. Tuskeloid Company. Nos. 152,521-2; Feb. 28.
- Brushes, Household. T. C. Perkins. No. 161,976; Nov. 28.
- Brushes, Lather. Hardright Company. No. 152,420; Feb. 28.
- Brushes, Lather and hair. L. Ascher. No. 152,343; Feb. 28.
- Brushes, Milling-machinery. Gebrüder Bühler. No. 155,209; May 23.
- Brushes, mops, and dusters, Certain. W. Hertzberg. No. 155,333; May 23.
- Brushes, mops, and dusters, Certain. B. E. Viner. No. 158,368; Aug. 29.
- Brushes, Painters'. Wadsworth, Howland & Co. No. 155,109; May 16.
- Brushes, Painting and varnishing. John L. Whiting-J. J. Adams Company. No. 160,733; Oct. 24.
- Brushes, Painting, varnishing, etc. John L. Whiting-J. J. Adams Company. Nos. 160,726-32; Oct. 24.
- Brushes, Painting, varnishing, etc. John L. Whiting-J. J. Adams Company. Nos. 160,735-7; Oct. 24.
- Brushes, Phonograph-record. T. S. Grow. No. 154,041; Apr. 4.
- Brushes, Rubber tooth, hair, nail, hand, bath, and flesh. No Bristle Brush Co. No. 161,023; Oct. 31.
- Brushes, Shaving. American Safety Razor Corporation. No. 154,863; May 16.
- Brushes, Shaving. Wontshed Brush Co. No. 159,593; Sept. 26.
- Brushes, Toilet. Geo. R. Gibson Co. No. 157,073; July 25.
- Brushes, Toilet. Kyoto Manufacturing & Trading Co. No. 154,990; May 16.
- Brushes, Toilet. John L. Whiting-J. J. Adams Company. No. 160,734; Oct. 24.
- Brushes, Tooth, face, nail, and bath. A. Saxe. No. 161,979; Nov. 28.
- Brushes, Tooth, hair, etc. Doniger & Company. No. 153,150; Mar. 14.
- Brushes, Tooth, hair, etc. Mills Brothers Company. No. 158,029; Aug. 22.
- Brushes, Tooth, hair, lather or shaving, and bath. Stewart & Holmes Drug Co. No. 160,684; Oct. 24.
- Brushes, Tooth, hair, nail, cloth, hat, and face. Western Bottle Manufacturing Company. No. 154,179; Apr. 4.
- Brushes, Tooth, nail, hand, bath. Kaufman-Straus Co. No. 152,440; Feb. 28.
- Brushes, Wire. Worcester Brush and Scraper Co. No. 156,476; June 20.

- Buckles and buckles and clasps for shoes and slippers, embroidery and crochet needles, etc., Belt. Riker Company. No. 162,877; Dec. 26.
- Buckles and buckles for men's and boys' clothing, Suspender. Alma Manufacturing Co. of Baltimore City. No. 158,878; Sept. 19.
- Buckles and rings. F. A. Toombs & Co. No. 153,385; Mar. 14.
- Buckles, Belt. Baer & Wilde Co. No. 157,407; Aug. 1.
- Buckles, Belt. S. Buchsbaum. No. 155,629; June 6.
- Buckles, Belt. Marathon Tire & Rubber Company. No. 155,759; June 6.
- Buckles, Belt. Riker Company. No. 161,599; Nov. 14.
- Buckles, Belt. X-L Belt Buckle Co. No. 162,420; Dec. 12.
- Buckles made of precious metal or imitation precious metal, Belt, shoe, and clothing. Wightman & Hough Company. No. 156,786; July 11.
- Budget system, Loose-leaf. Ellkop System Inc. No. 161,768; Nov. 21.
- Buffing and polishing compositions. Matchless Metal Polish Co. No. 159,034; Sept. 19.
- Buffing compounds. American Tripoli Company. No. 158,881; Sept. 19.
- Building blocks. Arbaugh and Keene. No. 159,711; Oct. 3.
- Building material, Certain. North American Wood Products Corporation. No. 159,726; Oct. 3.
- Building materials, and portable buildings. Arthur Müller Bauten und Industriewerke. Nos. 160,373-4; Oct. 24.
- Building materials, Certain. Evans Builders Company. No. 152,396; Feb. 28.
- Buildings. Anchor Corrugating Construction Co. No. 160,367; Oct. 24.
- Buildings, Steel. Blaw-Knox Company. No. 150,256; Jan. 3.
- Buildings, Structural shapes for. Bethlehem Fabricators, Inc. No. 159,659; Oct. 3.
- Bulletin boards, Job. G. H. Radebaugh. No. 159,995; Oct. 10.
- Bulletin, Monthly trade. A. A. Eastman. No. 158,654; Sept. 12.
- Bulletin or news sheet of the prices of metals. Daily. Bigelow, Bowditch & Company. No. 159,280; Sept. 26.
- Bulletins for insurance purposes. McLean Reports, Inc. No. 155,249; May 23.
- Bulletins, Series of. L. D. Rogers. No. 152,040; Feb. 14.
- Bullets, Nonfouling. Western Cartridge Company. Nos. 153,053-4; Mar. 7.
- Bumpers. Badger Manufacturing Corporation. No. 160,382; Oct. 24.
- Bumpers, tire and luggage carriers, creepers, etc. Badger Manufacturing Corporation. No. 160,383; Oct. 24.
- Runion protectors. G. A. Stetson. No. 153,323; Mar. 14.
- Burglar-alarm systems and parts thereof, Electrical. S. Seligman. No. 151,598; Feb. 7.
- Burglar alarms and housings, timer cases, and relays thereof, Electric. O. B. McClintock Company. No. 156,598; July 4.
- Burial cases. Embalming Burial Case Company. No. 158,658; Sept. 12.
- Burial garments. Théo. Tiedemann & Sons. No. 157,222; July 25.
- Burlap. California Cotton Mills Company. No. 153,422; Mar. 21.
- Burner equipments sold as a complete system for furnaces, ranges, and stoves. Cleveland Gas Burner & Appliance Co. No. 151,103; Jan. 24.
- Burners, Bunsen. Claudius Ash, Sons & Company. Nos. 154,247-8; Apr. 11.
- Burners for lighting, heating, and cooking purposes. Elektrizitätswerk Lanza. No. 157,050; July 25.
- Burners, Heat-concentrating drums for gas, etc. Independent Gasaver Corporation. No. 154,063; Apr. 4.
- Burners, Liquid-fuel. Filma Oil Burners Limited. No. 160,479; Oct. 24.
- Burners, Mantles for incandescent gaseous-fuel. Zales Bros. No. 160,336; Oct. 17.
- Burning equipment and burners. J. C. Johnson. No. 154,829; May 9.
- Burnishing compound, Mid-West Manufacturing Company. No. 162,552; Dec. 19.
- Bushings and bearings. American Bronze Corporation. No. 151,418; Feb. 7.
- Butter. J. E. Bender. No. 153,575; Mar. 21.
- Butter. Bradner Company. No. 153,578; Mar. 21.
- Butter. Capital City Products Company. No. 158,397; Sept. 5.
- Butter. H. C. Christians Co. No. 162,426; Dec. 12.
- Butter. Great Atlantic and Pacific Tea Company. No. 159,362; Sept. 26.
- Butter. Great Falls Dairy Products Company. No. 159,888; Oct. 10.
- Butter. Kielsmeier Company. No. 159,923; Oct. 10.
- Butter. Kingsley and Smith. No. 153,597; Mar. 21.
- Butter. C. H. Koster. No. 161,883; Nov. 21.
- Butter. Medina County Creamery Company. No. 153,601; Mar. 21.
- Butter. S. Miller. No. 160,794; Oct. 24.
- Butter. Mott & Wood Co. No. 160,590; Oct. 24.
- Butter. Nederlandsche Coöperatieve Zuivelverkoopcentrale. No. 153,265; Mar. 14.
- Butter. Pioneer Creamery Co. No. 151,908; Feb. 14.
- Butter. Southern Creamery Company. No. 153,621; Mar. 21.
- Butter. United Danish Butter Associations, Inc. No. 153,388; Mar. 14.
- Butter. H. E. Wimer. No. 152,085; Feb. 14.
- Butter, condensed and evaporated milk. Dairymen's League Co-Operative Association, Inc. No. 153,581; Mar. 21.
- Butter, condensed and evaporated milk, and ice cream. Dairymen's League Co-Operative Association, Inc. No. 161,649; Nov. 14.
- Butter, condensed and evaporated milk. Dairymen's League Co-Operative Association. No. 156,858; July 18.
- Butter, Creamery. Cadillac Produce Company. No. 159,832; Oct. 10.
- Butter, Creamery. Emil Fleischl & Son. No. 159,352; Sept. 26.
- Butter, Creamery. Meriden Creamery Company. No. 150,474; Jan. 3.
- Butter, eggs, dressed poultry. E. C. Grady Produce Company. No. 153,730; Mar. 28.
- Butter, eggs, ice cream, etc. Henningsen Produce Co. No. 151,806; Feb. 14.
- Butter, eggs, lard, and dressed poultry. M. Augenblick & Bro. No. 162,670; Dec. 26.
- Butter, ice cream, ices, etc. Sylvester-Nichols Company. No. 151,969; Feb. 14.
- Butter, lard, and sausage. H. P. Matthews. No. 150,469; Jan. 3.
- Butter, lard, ham, etc., Creamery. Wm. Schluderberg-T. J. Kurlde Co. No. 154,687; Apr. 18.
- Butter, lard, hams, etc., Creamery. Wm. Schluderberg-T. J. Kurlde Co. No. 156,921; July 18.
- Butter, milk, buttermilk, cottage cheese, cheese. Home Dairy Company. No. 159,906; Oct. 10.
- Buttermilk, Condensed and powdered. Beatrice Creamery Company. No. 154,487; Apr. 18.
- Buttermilk, Dried. Buttermilk Sales Co. No. 152,365; Feb. 28.
- Buttermilk powder. Fairmont Creamery Co. No. 162,431; Dec. 12.
- Buttermilk tablets. Chr. Hansen's Laboratory, Inc. No. 154,513; Apr. 18.
- Buttermilk tablets. Parke, Davis & Company. No. 158,514; Sept. 5.
- Butter substitute. Ohio Dairy Co. No. 151,892; Feb. 14.
- Button machines, molds, and dies. Marshall Field & Company. No. 161,801; Nov. 21.
- Buttonhole strips or tapes. Gilman B. Smith Company. No. 151,305; Jan. 24.
- Buttons. Jordan Marsh Company. No. 162,792; Dec. 26.
- Buttons and beads. F. Baptesse & Cie. No. 21,086; renewed May 10, 1922.
- Buttons, buckles, girdles, beads, spangles, Certain. United Manufacturing Trimming Co. No. 158,841; Sept. 12.
- Buttons, Cuff. Kohl-Pye Manufacturing Co. No. 155,470; May 30.
- Buttons for clothing, Nonbreakable. Non-Breakable Button Corporation of America. No. 158,761; Sept. 12.
- Buttons, Horn. Kenilworth Mfg. Co. No. 162,798; Dec. 26.
- Buttons, Horn. Lindenhurst Manufacturing Co. No. 158,738; Sept. 12.
- Buttons of vegetable ivory. M. B. Shantz, Incorporated. No. 153,528; Mar. 21.
- Buttons, snap fasteners, etc., Machines for sewing on. Frederick Osann Company. No. 151,398; Jan. 31.
- Butts. Stanley Works. No. 153,872; Mar. 28.
- Cabbage, beans, Irish potatoes, peaches, watermelons, and sweet potatoes, Fresh. Gulf Coast Produce Exchange. No. 152,419; Feb. 28.
- Cabinet for nuts and the like, Display. W. C. Roberts Co. Nos. 156,546-7; June 27.
- Cabinets and certain boxes, etc., Dispensing. National Paper Products Company. No. 153,264; Mar. 14.
- Cabinets and tables, Kitchen. I. X. L. Furniture Company. No. 153,451; Mar. 21.
- Cabinets, Filing. Renee Limited. No. 155,808; June 6.
- Cabinets, Kitchen. G. I. Sellers & Sons Company. No. 151,943; Feb. 14.
- Cabinets, Kitchen. Charles William Stores, Inc. No. 155,870; June 6.
- Cabinets, Medicine. Hess Warming & Ventilating Company. No. 157,682; Aug. 15.
- Cabinets, test boards, gauges, registers, etc., Testing. Western Electric Company. No. 161,852; Nov. 21.
- Cabinets, Towel. Parent Sanitary Towel Cabinet Co. No. 162,979; Dec. 26.
- Cable, Antenna. W. C. Shinn Mfg. Co. No. 162,364; Dec. 12.
- Cable, Fiber. Waterbury Company. No. 158,856; Sept. 12.
- Cake. Campbell Baking Company. No. 159,303; Sept. 26.
- Cake. Grennan Cake Corporation. No. 153,456; Mar. 21.
- Cake. Ward Baking Company. No. 151,999; Feb. 14.
- Cake. Ward Baking Company. No. 152,291; Feb. 21.
- Cake. Wiczan Bros. No. 153,563; Mar. 21.
- Cake, pastry, biscuits, etc. General Baking Company. No. 159,357; Sept. 26.
- Cakes. Acme Cracker Co. No. 162,662; Dec. 26.
- Cakes. Iten Biscuit Co. No. 162,780; Dec. 26.
- Cakes. R. Raes. No. 161,901; Nov. 21.
- Cakes. Savannah Baking Company. No. 161,903; Nov. 21.
- Cakes and crackers. Peerless Biscuit Co. No. 161,024; Oct. 31.
- Cakes and doughnuts, Fried. National Cream Fried Cake Corporation. No. 159,453; Sept. 26.

Alphabetical list of trade-marks—Continued.

- Cakes, bread, and pastry. Riverside Baking Company. No. 159,641; Sept. 26.
- Cakes, cakes especially molded for holding and serving ice cream and frozen desserts, etc. J. H. Mulholland. No. 162,834; Dec. 26.
- Cakes, candies, fruit preserves. Remar Company. No. 152,965; Mar. 7.
- Cakes, cookies, and fried cakes. Grennan Cake Corporation. No. 160,513; Oct. 24.
- Cakes, Fruit. L. Simon. No. 161,626; Nov. 14.
- Cakes—namely, cookies. Tru-Blu Biscuit Company. No. 160,030; Oct. 10.
- Cakes, wafers, crackers, biscuits. Loose Wiles Biscuit Company. No. 157,704; Aug. 15.
- Calced gypsum, plaster of Paris, and Keene's cement. United States Gypsum Company. No. 156,560; June 27.
- Calced pulverized material. Quigley Furnace Specialties Co. No. 159,744; Oct. 3.
- Calcium hypochlorite or containing same, Preparations consisting in. Chemische Fabrik Griesheim-Elektron. No. 157,314; Aug. 1.
- Calcium molybdate. Climax Molybdenum. No. 153,682; Mar. 28.
- Calculating, adding, and other scientific machines and appliances, Certain. H. Daemen-Schmid No. 162,489; Dec. 19.
- Calculating machines, philosophical air pumps, cameras, etc. Hadfields Limited. No. 153,742; Mar. 28.
- Calendars. American Calendar Company. No. 155,191; May 23.
- Calendars. Defiance Manufacturing Company. No. 158,338; Aug. 29.
- Calendars. Defiance Manufacturing Company. No. 159,326; Sept. 26.
- Calendars. T. P. Dolan. No. 150,790; Jan. 10.
- Callous remover. Cal-S-Foe. No. 157,470; Aug. 8.
- Cambric piece goods. Marshall Field & Company. No. 155,480; May 30.
- Cambrics. H. A. Donnelly. No. 152,388; Feb. 28.
- Cambrics in the piece. Berkeley Company. No. 152,348; Feb. 28.
- Cambrics in the piece. Berkeley Company. No. 157,460; Aug. 8.
- Cambrics, nainsooks, and muslins in the piece. Carson. Pirie, Scott & Co. No. 154,237; Apr. 11.
- Cameras and projectors, Motion-picture. Aladdin Cinema Company. No. 156,829; July 18.
- Cameras, Cinema. Sept Cinema Camera Distributors, Inc. No. 159,514; Sept. 26.
- Cameras, motion-picture taking and projecting machines, etc. Cleveland Detroit Camera Company. No. 161,761; Nov. 21.
- Cameras, optical lenses, sensitized glass plates, etc. C. A. P. Ivens. No. 155,986; June 13.
- Cameras, Photographic. Seneca Camera Manufacturing Company. No. 154,383; Apr. 11.
- Cameras, photographic films on spools, film packs, etc. Gevaert Photo Produkten. Nos. 162,250-2; Dec. 12.
- Camisole and drawers, Combination. E. L. Roberts. No. 158,074; Aug. 22.
- Camisoles. Shoulder straps for. Waitzfelder Braid Co. No. 160,716; Oct. 24.
- Camping or sleeping bags, Woolen and canvas. F. C. Huyck & Sons. Nos. 157,107-8; July 25.
- Can opener. R. F. Stevenson. No. 159,544; Sept. 26.
- Can openers. Acme Import & Export Company. No. 153,635; Mar. 28.
- Can openers. United Royalties Corp. No. 151,615; Feb. 7.
- Canned and bottled crab. T. Komada. Nos. 157,700-1; Aug. 15.
- Canned and cured fruits, canned vegetables, pork and beans, catchup, etc. J. H. Leighton. No. 162,532; Dec. 19.
- Canned and fresh fruits, coffee, etc. Santoni & Company. No. 154,682; Apr. 18.
- Canned berries, fruits, and vegetables. W. N. Clark Company. No. 160,414; Oct. 24.
- Canned cherries, crushed pineapple, honey, etc. Mi-O-Mi, Inc. No. 156,712; July 11.
- Canned chile con carne and canned hot tamales. Walker Properties Association. No. 151,994; Feb. 14.
- Canned chili sauce, tomato catsup, corn, etc. Indian Packing Corporation. No. 153,762; Mar. 28.
- Canned chowder. Maurice River Packing Co. No. 156,009; June 13.
- Canned clams, fish, and berries. Warrenton Clam Co. No. 156,561; June 27.
- Canned, condensed, and evaporated milks. Empire State Dairy Company. No. 152,759; Mar. 7.
- Canned corn and peas, wheat flour, and coffee. R. A. Tribble. No. 162,920; Dec. 26.
- Canned crab meat, fish, vegetables, fruit, and pickles. S. Tsutsumi. No. 159,555; Sept. 26.
- Canned, evaporated, and condensed milks. American Milk Products Corporation. No. 150,218; Jan. 3.
- Canned fish. Coast Fishing Co. No. 156,115; June 13.
- Canned fish. C. M. Everitt and J. P. Todd, Inc. No. 160,467; Oct. 24.
- Canned fish. K. Hovden Company. No. 151,808; Feb. 14.
- Canned fish. A/S Trondhjem Canning and Export Co. No. 154,812; May 9.
- Canned fish. I. Villarias Fernandez. No. 154,543; Apr. 18.
- Canned fish, etc. Baker Food Products Company. No. 154,484; Apr. 18.
- Canned fish, fruits, and vegetables. C. L. Benson. No. 21,856; renewed Oct. 11, 1922.
- Canned fish, fruits, and vegetables. G. W. Hume Company. No. 157,686; Aug. 15.
- Canned fish, fruits, and vegetables. Steele Packing Company. No. 156,930; July 18.
- Canned food products—namely, peas. Great Atlantic and Pacific Tea Company. No. 151,388; Jan. 31.
- Canned foods of smoked or salted fish or herring. A/S United Sardine Factories. No. 159,135; Sept. 19.
- Canned foodstuffs. W. H. Killian Co. No. 155,994; June 13.
- Canned fruit. Baker Food Products Company. No. 154,483; Apr. 18.
- Canned fruit. Virden Packing Company. Nos. 160,991-3; Oct. 31.
- Canned fruits. California Co-operative Canneries. No. 153,920; Mar. 28.
- Canned fruits. California Co-Operative Canneries. Nos. 155,941-2; June 13.
- Canned fruits. California Growers Association. No. 151,699; Feb. 14.
- Canned fruits. H. M. Lockwood. No. 152,450; Feb. 28.
- Canned fruits. H. G. Prince & Co. No. 156,913; July 18.
- Canned fruits. Virden Packing Company. No. 160,715; Oct. 24.
- Canned fruits and canned vegetables. Virden Packing Company. No. 156,773; July 11.
- Canned fruits and salmon and sardines. H. J. Baker & Bro. No. 156,618; July 11.
- Canned fruits and vegetables. H. A. Baker, Inc. No. 157,639; Aug. 15.
- Canned fruits and vegetables. California Co-Operative Canneries. Nos. 160,764-6; Oct. 24.
- Canned fruits and vegetables. California Growers Association. No. 151,442; Feb. 7.
- Canned fruits and vegetables. G. Di Salvo & A. Patera. No. 158,936; Sept. 19.
- Canned fruits and vegetables. Dixie Fruit Products Corporation. No. 154,529; Apr. 18.
- Canned fruits and vegetables. Herbert Packing Co. No. 160,522; Oct. 24.
- Canned fruits and vegetables. Herbert Packing Co. No. 162,515; Dec. 19.
- Canned fruits and vegetables. G. D. Milligan Grocer Co. No. 156,352; June 20.
- Canned fruits and vegetables. F. B. Neuhoff. No. 158,357; Aug. 29.
- Canned fruits and vegetables. F. B. Neuhoff. Nos. 159,457-8; Sept. 26.
- Canned fruits and vegetables. F. B. Neuhoff. No. 160,601; Oct. 24.
- Canned fruits and vegetables. F. B. Neuhoff. No. 162,442; Dec. 12.
- Canned fruits and vegetables. New York Cannery, Inc. No. 152,912; Mar. 7.
- Canned fruits and vegetables. New York Cannery, Inc. No. 153,267; Mar. 14.
- Canned fruits and vegetables. Ocean Shore Canning Co. No. 161,971; Nov. 28.
- Canned fruits and vegetables. Santa Clara Valley Canning Co. No. 153,298; Mar. 14.
- Canned fruits and vegetables. Santa Clara Valley Canning Co. No. 154,681; Apr. 18.
- Canned fruits and vegetables. Springfield Canning Co. No. 157,770; Aug. 15.
- Canned fruits and vegetables. Virden Packing Company. No. 155,854; June 6.
- Canned fruits and vegetables. Virden Packing Company. No. 156,772; July 11.
- Canned fruits and vegetables. Virden Packing Company. Nos. 158,560-2; Sept. 5.
- Canned fruits and vegetables and coffee. Dreyfus Bros. No. 161,013; Oct. 31.
- Canned fruits and vegetables, canned and shell fish. S. Vogel Sons. No. 153,085; Mar. 7.
- Canned fruits and vegetables, fruit jams. New York Cannery, Inc. No. 152,911; Mar. 7.
- Canned fruits and vegetables, fruit jams and preserves. New York Cannery, Inc. No. 152,910; Mar. 7.
- Canned fruits and vegetables, fruit preserves, table sauces, dressings, etc. Allison-Bedford Co. No. 156,830; July 18.
- Canned fruits and vegetables, jams, and jellies. L. O. Switzer. No. 160,810; Oct. 24.
- Canned fruits and vegetables, nuts, honey, jelly, etc. Betty Jeane Incorporated. No. 159,279; Sept. 26.
- Canned fruits and vegetables, rolled oats, olives, peanut butter, spices, etc. May Bros. Co. No. 160,577; Oct. 24.
- Canned fruits and vegetables, salad oil, cocoa, shortening. Felix Spatola & Sons. No. 158,341; Aug. 29.
- Canned fruits and vegetables, sea food, jams, etc. Dodge, Sweeney & Co. No. 161,870; Nov. 21.
- Canned fruits and vegetables, tea, etc. E. C. Harley Company. No. 152,813; Mar. 7.
- Canned fruits, berries, and vegetables. H. A. Baker, Inc. No. 159,270; Sept. 26.
- Canned fruits, fish, and vegetables, spices, etc. Federal Grocery Co. No. 158,441; Sept. 5.
- Canned fruits, fruit butter, olive oil, etc. California Growers Association. No. 151,698; Feb. 14.

Alphabetical list of trade-marks—Continued.

- Canned fruits, vegetables, and dried fruits. F. J. Norton. No. 162,974; Dec. 26.
- Canned fruits, vegetables, and fish. Hunt Brothers Packing Company. No. 161,699; Nov. 14.
- Canned fruits, vegetables, and fish and coffee. Dreyfus Bros. No. 162,495; Dec. 19.
- Canned fruits, vegetables, and fish, and teas. E. C. Harley Company. No. 156,287; June 20.
- Canned fruits, vegetables, and fish, coffee. Tibbitts-Hewitt Gro. Co. No. 153,330; Mar. 14.
- Canned fruits, vegetables, and fish, spices, etc. Bert McDowell Co. No. 160,910; Oct. 31.
- Canned fruits, vegetables, and fish, tomato catchup, fruit preserves. Wholesale Distributors Co. No. 157,795; Aug. 15.
- Canned fruits, vegetables, and fish, vinegar. J. C. Perry & Company. No. 157,172; July 25.
- Canned fruits, vegetables, berries, and evaporated milk. Peck & Pratt, Inc. No. 162,449; Dec. 12.
- Canned fruits, vegetables, fish, crab meat, molasses, mince-meat, and pickles. Coast Products Company. No. 160,417; Oct. 24.
- Canned fruits, vegetables, fish, meat, oysters, catsup, and soup. Albert F. Remy & Co. No. 22,399; renewed Jan. 31, 1923.
- Canned fruits, vegetables, meats, etc., candies, jams, nuts, etc. Channel Commercial Co. No. 152,703; Mar. 7.
- Canned fruits, vegetables, tuna fish, and preserves. Hunt Brothers Packing Company. No. 154,771; May 2.
- Canned goods. Maconochie Bros. Nos. 20,276-7; renewed Oct. 27, 1921.
- Canned goods, cereals, coffee, etc. Amboy Products Co. No. 153,392; Mar. 21.
- Canned goods, coffee, tea, etc. Sussman Wormser & Co. No. 151,967; Feb. 14.
- Canned goods, cottonseed oil, catchup, etc. Consolidated Companies, Inc. No. 162,707; Dec. 26.
- Canned goods, jams, jellies, coffee, tea, etc. Jenkinson-Bode Company. No. 152,315; Feb. 21.
- Canned goods, molasses, tea, etc. E. C. Harley Company. No. 152,597; Feb. 28.
- Canned grapefruit. Arecibo Grape Fruit Company. No. 157,801; Aug. 15.
- Canned grapefruit in cans and glasses. H. L. Sherman. No. 161,981; Nov. 28.
- Canned meats and vegetables, and canned combinations of same. John Cook & Sons, Inc. No. 162,708; Dec. 26.
- Canned olives. Bolivar Packing Company. No. 154,499; Apr. 18.
- Canned oysters. C. B. Foster Packing Co. No. 160,483; Oct. 24.
- Canned oysters and shrimp. Biloxi Fishermen's Packing Co. No. 152,566; Feb. 28.
- Canned oysters, clams, and chowder. American Oyster Company. No. 155,306; May 23.
- Canned peaches. California Packing Corporation. No. 158,627; Sept. 12.
- Canned peas and corn. Aunt Nellie's Farm Kitchen. No. 158,601; Sept. 12.
- Canned peppers. A. Schratter. No. 152,627; Feb. 28.
- Canned pineapple. Hawaiian Pineapple Company, Ltd. Nos. 151,797-800; Feb. 14.
- Canned pineapple. Hawaiian Pineapple Company. No. 160,520; Oct. 24.
- Canned pineapple. Henry P. Baldwin, Ltd. No. 161,915; Nov. 28.
- Canned pineapple. West Indies Fruit Importing Co. No. 156,080; June 13.
- Canned ripe olives, artichokes, tuna fish, pimientos, etc. Curtis Corporation. No. 156,510; June 27.
- Canned salmon. George W. Sanborn & Sons. No. 152,494; Feb. 28.
- Canned salmon. Hetta Packing Co. No. 156,294; June 20.
- Canned salmon. Seaboard Commercial Company. No. 159,511; Sept. 26.
- Canned salmon. Virden Packing Co. No. 162,402; Dec. 12.
- Canned salmon and sardines. Jos. Socolof Co. No. 151,953; Feb. 14.
- Canned salmon and tuna. E. L. Heebner. No. 155,977; June 13.
- Canned sardines. Booth Fisheries Company. No. 153,124; Mar. 14.
- Canned sardines. Great Atlantic and Pacific Tea Company. No. 158,448; Sept. 5.
- Canned sauerkraut. Frank Pure Food Company. Nos. 155,890-1; June 6.
- Canned shrimp. C. B. Foster Packing Co. No. 160,865; Oct. 31.
- Canned, smoked, and dried meats, soup, marmalade, mince-meat, etc. John Morrell & Co. No. 156,540; June 27.
- Canned tomatoes. Lawndale Wholesale Grocery Co. No. 157,703; Aug. 15.
- Canned tomatoes and fruit preserves. Lawndale Wholesale Grocery Company. No. 154,830; May 9.
- Canned vegetables. Ephraim Sanitary Canning Company. No. 159,619; Sept. 26.
- Canned vegetables. Ephraim Sanitary Canning Company. No. 162,501; Dec. 19.
- Canned vegetables. David Hunt & Co. No. 160,779; Oct. 24.
- Canned vegetables. Inderrieden Canning Company. No. 151,816; Feb. 14.
- Canned vegetables. Minnesota Valley Canning Co. Nos. 162,555-6; Dec. 19.
- Canned vegetables. E. S. Noyes Company. No. 154,645; Apr. 18.
- Canned vegetables. W. R. Roach & Co. No. 152,623; Feb. 28.
- Canned vegetables. W. R. Roach & Co. No. 158,288; Aug. 29.
- Canned vegetables. Sears and Nichols Canning Co. No. 158,298; Aug. 29.
- Canned vegetables. Silkwood-Pharis Wholesale Grocery Company. No. 162,892; Dec. 26.
- Canned vegetables and fish. Seeman Brothers. No. 20,942; renewed Mar. 17, 1921.
- Canned vegetables and fruits. Filice & Perrelli Canning Co. No. 159,351; Sept. 26.
- Canned vegetables and fruits. Oakford & Fahnstock. No. 21,340; renewed June 21, 1922.
- Canned vegetables and fruits. Paxton & Gallagher Co. No. 160,621; Oct. 24.
- Canned vegetables and fruits. Western Canning Company. No. 154,733; Apr. 18.
- Canned vegetables and pork and beans. Silkwood-Pharis Wholesale Grocery Company. No. 162,368; Dec. 12.
- Canned vegetables, Certain. Dreyfus Bros. No. 162,235; Dec. 12.
- Canned vegetables, etc. Baker Food Products Company. No. 154,482; Apr. 18.
- Canned vegetables, fruit, and fish; coffee, bread, etc. Federal Grocery Co. No. 162,071; Dec. 5.
- Canned white tuna fish. Westgate Sea Products Co. No. 159,583; Sept. 26.
- Cans and closures for cans, Tin. George D. Ellis & Sons. No. 158,655; Sept. 12.
- Cans, containers, and cartons. L. R. Carley. No. 162,211; Dec. 12.
- Cans, Metal. Sheet Metal Specialty Company. No. 150,967; Jan. 10.
- Candied cereal. H. C. Hawk. No. 154,567; Apr. 18.
- Candies. G. C. Beidler. No. 160,835; Oct. 31.
- Candies. C. W. Brown. No. 151,688; Feb. 14.
- Candies. Cruzen-Allegretti Co. No. 152,377; Feb. 28.
- Candies. J. H. Doran. No. 161,765; Nov. 21.
- Candies. Elbee Chocolate Co. No. 162,733; Dec. 26.
- Candies. Euclid Candy Co. No. 153,714; Mar. 28.
- Candies. Heidelberger Confectionery Co. No. 157,681; Aug. 15.
- Candies. Heit-Miller-Lau Co. Nos. 154,568-9; Apr. 18.
- Candies. H. Jevne Co. No. 154,586; Apr. 18.
- Candies. Langley & Michaels Co. No. 156,574; June 27.
- Candies. Loft, Incorporated. No. 159,418; Sept. 26.
- Candies. Mari-Bell Sweets. No. 156,056; June 13.
- Candies. Mason, Au & Magenheimer Confectionery Manufacturing Company. No. 151,865; Feb. 14.
- Candies. Mason, Au & Magenheimer Confectionery Manufacturing Company. No. 152,874; Mar. 7.
- Candies. J. W. Meyer. No. 160,757; Oct. 24.
- Candies. Charles N. Miller Company. No. 152,883; Mar. 7.
- Candies. Moxie Company. No. 156,355; June 20.
- Candies. W. C. Nevin Candy Co. No. 156,719; July 11.
- Candies. Nunnally Company. No. 154,801; May 9.
- Candies. Nunnally Company. No. 155,789; June 6.
- Candies. Pacific Coast Biscuit Company. No. 155,042; May 16.
- Candies. Quaker City Chocolate & Confectionery Company. No. 162,109; Dec. 5.
- Candies. Rogers Candy & Ice Cream Co. No. 151,926; Feb. 14.
- Candies. Sioux Candy Co. No. 157,284; July 25.
- Candies. Springer Chocolate Co. No. 156,928; July 18.
- Candies. Standard Candy Co. No. 156,060; June 13.
- Candies. Starker Candy Company. No. 156,577; June 27.
- Candies. H. W. Townsend. No. 156,557; June 27.
- Candies. The Mirror. No. 154,636; Apr. 18.
- Candies. G. H. Thompson, Inc. No. 162,607; Dec. 19.
- Candies. L. M. Tully. No. 151,983; Feb. 14.
- Candies. J. Vinikow. No. 156,559; June 27.
- Candies. Virginia Dare Company. No. 154,813; May 9.
- Candies. A. R. Walker Candy Corporation. No. 158,848; Sept. 12.
- Candies. Wallace & Co. No. 151,629; Feb. 7.
- Candies. Wallace & Co. No. 159,573; Sept. 26.
- Candies. Wallace & Co. No. 160,996; Oct. 31.
- Candies. S. W. Watson. No. 156,777; July 11.
- Candies. A. G. Williams Home Made Candy Co. No. 157,247; July 25.
- Candies. A. G. Williams Homemade Candy Co. No. 158,864; Sept. 12.
- Candies. George Ziegler Co. No. 152,013; Feb. 14.
- Candies. George Ziegler Co. No. 162,946; Dec. 26.
- Candies and canned soups. H. J. Greenhut. No. 156,522; June 27.
- Candies and chocolate. A. C. Catudal. No. 162,700; Dec. 26.
- Candies and chocolate-covered nuts, Chocolate. Famo Nut Co. No. 160,472; Oct. 24.
- Candies and chocolates. E. Greenfield's Sons. No. 154,559; Apr. 18.
- Candies and chocolates. E. P. Lewis. No. 156,000; June 13.
- Candies and chocolates. Liberty Tree Candy Company. No. 151,845; Feb. 14.

Alphabetical list of trade-marks—Continued.

- Candies and chocolates. W. H. Luden. No. 154,200; Apr. 4.
 Candies and chocolates. W. H. Luden. No. 154,616; Apr. 18.
 Candies and chocolates. W. H. Luden. No. 156,701; July 11.
 Candies and chocolates. Mason, Au & Magenheimer Conf. Mfg. Co. No. 157,146; July 25.
 Candies and chocolates. Taylor's. No. 153,019; Mar. 7.
 Candies and chocolates. Wallace & Co. No. 153,045; Mar. 7.
 Candies and chocolates, Hard and soft. Quaker City Chocolate & Confectionery Company. No. 157,745; Aug. 15.
 Candies and confections. J. D. Stem. No. 156,760; July 11.
 Candies and ice cream. Pangburn Company. No. 157,170; July 25.
 Candies, bonbons, chocolates, and marshmallows. C. Baruxes. No. 151,426; Feb. 7.
 Candies, Chocolate. E. Greenfield's Sons. No. 152,413; Feb. 28.
 Candies, Chocolate-coated. De Klyn Candy Co. No. 156,655; July 11.
 Candies, fancy ices, and cakes. J. M. Murray. No. 154,799; May 9.
 Candies, Hard and soft. Spoch's. No. 154,706; Apr. 18.
 Candies, ice cream, cakes, crackers, and fondant. Nulomoline Company. No. 162,975; Dec. 26.
 Candy. Aberdeen Candies. No. 152,650; Mar. 7.
 Candy. Allen-Qualley Company. No. 154,768; May 2.
 Candy. Allen-Qualley Company. No. 162,664; Dec. 26.
 Candy. Alpine Chocolate Company. No. 152,654; Mar. 7.
 Candy. Alpine Chocolates Company. No. 160,359; Oct. 24.
 Candy. Edw. M. Becker Co. No. 162,474; Dec. 19.
 Candy. Belle Mead Sweetmakers. No. 154,488; Apr. 18.
 Candy. Betty Alden Food Shoppe. No. 152,687; Mar. 7.
 Candy. C. A. Birch-Field. No. 153,120; Mar. 14.
 Candy. H. C. Boehm. No. 156,843; July 18.
 Candy. Bonita Co. No. 156,844; July 18.
 Candy. W. I. Booth. Nos. 160,838-9; Oct. 31.
 Candy. W. I. Booth. No. 161,919; Nov. 28.
 Candy. W. I. Booth. No. 162,034; Dec. 5.
 Candy. W. I. Booth. No. 162,477; Dec. 19.
 Candy. Boston Confectionery Company. No. 157,645; Aug. 15.
 Candy. Brecht Candy Company. No. 154,500; Apr. 18.
 Candy. Brecht Candy Company. No. 161,011; Oct. 31.
 Candy. Brower Candy Co. No. 154,503; Apr. 18.
 Candy. W. Brownley. No. 160,085; Oct. 10.
 Candy. Bunte Brothers. No. 159,296; Sept. 26.
 Candy. L. G. Burns. No. 154,506; Apr. 18.
 Candy. Carty Candy Co. No. 151,706; Feb. 14.
 Candy. H. B. Chalmers. No. 156,852; July 18.
 Candy. Charter Chocolate Company. No. 151,708; Feb. 14.
 Candy. Charter Chocolate Company. No. 151,709; Feb. 14.
 Candy. Chocolate Products Co. No. 160,441; Oct. 24.
 Candy. Chocolate Products Company. No. 162,483; Dec. 19.
 Candy. Collins-Hencke Candy Co. No. 160,419; Oct. 24.
 Candy. Criswell Candy Company. No. 154,523; Apr. 18.
 Candy. Curtiss Candy Co. No. 150,318; Jan. 3.
 Candy. Curtiss Candy Co. No. 154,524; Apr. 18.
 Candy. H. Dillas. No. 152,748; Mar. 7.
 Candy. H. Dillas. No. 162,720; Dec. 26.
 Candy. De Klyn Candy Co. No. 157,042; July 25.
 Candy. Durand Co. No. 162,237; Dec. 12.
 Candy. Edna May Candy Co. No. 156,537; June 27.
 Candy. Elmer Candy Co. No. 154,540; Apr. 18.
 Candy. C. F. Erb & Son. No. 159,349; Sept. 26.
 Candy. Euclid Candy Company. No. 155,684; June 6.
 Candy. Euclid Candy Company. No. 155,957; June 13.
 Candy. Euclid Candy Company. No. 156,241; June 20.
 Candy. Euclid Candy Company. No. 158,660; Sept. 12.
 Candy. Gimbal Brothers. No. 160,500; Oct. 24.
 Candy. Grace Darling Candy Shop, Inc. No. 160,443; Oct. 24.
 Candy. H. Goelitz. No. 156,518; June 27.
 Candy. D. Goldenberg. No. 151,776; Feb. 14.
 Candy. D. Goldenberg. No. 153,375; Mar. 14.
 Candy. Theodore Gottmann & Sons. No. 151,780; Feb. 14.
 Candy. Gramercy Chocolate Company. No. 157,079; July 25.
 Candy. W. T. Grant Company. No. 156,676; July 11.
 Candy. C. L. Harraden. No. 156,681; July 11.
 Candy. Harry Hoefler Candy Co. No. 152,824; Mar. 7.
 Candy. Havasmile Company. Nos. 152,817-12; Mar. 7.
 Candy. Hawley & Hoops. No. 151,801; Feb. 14.
 Candy. Hawley & Hoops. No. 162,158; Dec. 5.
 Candy. Hoit Miller Lau Co. No. 151,804; Feb. 14.
 Candy. C. F. Hickok Co. No. 152,821; Mar. 7.
 Candy. W. A. Hicks. No. 160,523; Oct. 24.
 Candy. L. Hirschfeld. No. 162,268; Dec. 12.
 Candy. International Corn Products Corporation. No. 159,191; Sept. 19.
 Candy. T. C. Jungels. No. 158,710; Sept. 12.
 Candy. B. Leon. No. 151,529; Feb. 7.
 Candy. Lewis and Rose. No. 153,228; Mar. 14.
 Candy. Licorice Products Company. No. 156,699; July 11.
 Candy. Robt. F. Mackenzie Co. No. 156,004; June 13.
 Candy. Manufacturing Company of America. No. 151,861; Feb. 14.
 Candy. Manufacturing Company of America. No. 157,709; Aug. 15.
 Candy. E. L. Mathews Candy Company. No. 157,710; Aug. 15.
 Candy. C. May. No. 153,793; Mar. 28.
 Candy. J. Mendell. No. 162,827; Dec. 26.
 Candy. Chas. H. Messenger Co. No. 154,630; Apr. 18.
 Candy. Muskogee Wholesale Grocer Company. No. 154,638; Apr. 18.
 Candy. Fred J. Naught & Co. No. 156,076; June 13.
 Candy. New England Confectionery Company. Nos. 155,773-81; June 6.
 Candy. New England Confectionery Company. Nos. 156,021-30; June 13.
 Candy. New England Confectionery Company. Nos. 156,368-70; June 20.
 Candy. New England Confectionery Company. No. 159,048; Sept. 19.
 Candy. New England Confectionery Company. No. 161,571; Nov. 14.
 Candy. Nichols Candy Company. No. 158,759; Sept. 12.
 Candy. Nunnally Company. No. 156,900; July 18.
 Candy. Nunnally Company. No. 157,727; Aug. 15.
 Candy. Nunnally Company. No. 160,609; Oct. 24.
 Candy. J. H. Overhauser. No. 160,936; Oct. 31.
 Candy. Oxford Confectionery Company. No. 150,649; Apr. 18.
 Candy. Package Confectionery Company. No. 152,930; Mar. 7.
 Candy. Package Confectionery Company. No. 156,904; July 18.
 Candy. Package Confectionery Company. No. 162,335; Dec. 12.
 Candy. D. L. Page, Inc. No. 160,614; Oct. 24.
 Candy. Page & Shaw. No. 159,470; Sept. 26.
 Candy. Page & Shaw. No. 160,110; Oct. 10.
 Candy. Palmer Candy Co. No. 154,650; Apr. 18.
 Candy. Palmer Candy Co. No. 156,905; July 18.
 Candy. Palmer Candy Co. No. 160,615; Oct. 24.
 Candy. Peter Paul Candy Mfg. Co. No. 162,338; Dec. 12.
 Candy. Quaker City Chocolate & Confectionery Company. No. 160,946; Oct. 31.
 Candy. G. L. Rassias. No. 156,914; July 18.
 Candy. R. M. Richardson & Co. No. 157,750; Aug. 15.
 Candy. Rogers Candy Company. No. 162,171; Dec. 5.
 Candy. R. Romero. No. 158,287; Aug. 29.
 Candy. Russell & Gilbert Co. No. 152,975; Mar. 7.
 Candy. Samoset Chocolates Company. No. 151,404; Jan. 31.
 Candy. Samoset Chocolates Company. No. 153,296; Mar. 14.
 Candy. Samoset Chocolate Company. No. 160,655; Oct. 24.
 Candy. Samoset Chocolates Company. No. 162,358; Dec. 12.
 Candy. Schutter Johnson Candy Co. No. 150,559; Jan. 3.
 Candy. Schwarz & Son. No. 159,092; Sept. 19.
 Candy. T. Shortiss. No. 151,947; Feb. 14.
 Candy. Smith Brothers, Inc. Nos. 160,972-3; Oct. 31.
 Candy. Smith-Kirk Candy Co. No. 153,305; Mar. 14.
 Candy. Snows Candy Corporation. No. 160,975; Oct. 31.
 Candy. Snyder Chaffee Company. No. 150,576; Jan. 3.
 Candy. Mrs. Snyder's Whipped Cream Chocolates. No. 154,702; Apr. 18.
 Candy. E. R. Steeg. No. 158,824; Sept. 12.
 Candy. Stephen F. Whitman & Son Inc. No. 155,868; June 6.
 Candy. Stewart-Bartlett Candy Co. Nos. 156,062-3; June 13.
 Candy. Stuart Confections Co. No. 152,079; Feb. 14.
 Candy. Sweet Candy Co. No. 159,549; Sept. 26.
 Candy. A. Thode. No. 154,810; May 9.
 Candy. M. Tidyman. No. 157,777; Aug. 15.
 Candy. Ucanco Candy Company. No. 152,524; Feb. 28.
 Candy. United Candy Company. No. 162,143; Dec. 5.
 Candy. U. R. S. Candy Stores, Inc. No. 162,608; Dec. 19.
 Candy. Up-To-Date Candy Mfg. Co. No. 154,849; May 9.
 Candy. Val. Blatz, Jr. Candy Co. No. 152,689; Mar. 7.
 Candy. Val. Blatz Jr. Candy Co. No. 159,283; Sept. 26.
 Candy. Voegelé & Dinning Co. No. 154,814; May 9.
 Candy. Ward-Owsley Co. No. 153,347; Mar. 14.
 Candy. Webers. No. 157,794; Aug. 15.
 Candy. Webers. No. 158,369; Aug. 29.
 Candy. Westmoreland Candy Company. No. 156,942; July 18.
 Candy. Williamson Candy Co. No. 152,550; Feb. 28.
 Candy. Williamson Candy Co. No. 154,740; Apr. 18.
 Candy. H. J. Williamson. No. 162,179; Dec. 5.
 Candy. Wirth Chocolate Company. No. 154,816; May 9.
 Candy and bonbons. Candygram Headquarters. No. 154,507; Apr. 18.
 Candy and candied confections, Chocolate. Aunt Molly's Kitchen. No. 161,400; Nov. 14.
 Candy and caramels. Paul F. Beich Company. No. 156,622; July 11.
 Candy and chewing gum. J. W. Wood. No. 156,939; July 18.
 Candy and chocolate. United Clear Stores Company of America. No. 161,658; Nov. 14.
 Candy and chocolate bars. Jacob Brothers. No. 152,200; Feb. 21.

- Candy and chocolates. Miss Saylor's Chocolates, Inc. No. 154,683; Apr. 18.
- Candy and tablets, Mint. Cremint Co. No. 159,319; Sept. 26.
- Candy, Bar. Robt. F. Mackenzie Co. No. 152,095; Feb. 14.
- Candy bars. Bunte Brothers. No. 162,206; Dec. 12.
- Candy, Brand of. Johnson & Bonnier. No. 152,435; Feb. 28.
- Candy, cake, bread, and pastry. United Candy & Pastry Company. No. 151,985; Feb. 14.
- Candy, cakes, fruit and berry sirups and juices, honey, etc. S. Plumbridge. Nos. 162,859-60; Dec. 26.
- Candy, Chocolate. Bishop & Company. No. 156,841; July 18.
- Candy, Chocolate. Chocolate Products Company. No. 156,207; June 20.
- Candy, Chocolate. Chocolate Products Company. No. 158,576; Sept. 5.
- Candy, Chocolate. John W. Bunn & Co. No. 161,921; Nov. 28.
- Candy, Chocolate. Samoset Chocolate Company. No. 151,933; Feb. 14.
- Candy, Chocolate. Sioux Candy Company. No. 157,768; Aug. 15.
- Candy, Chocolate. Theodore Bros. Chocolate Co. No. 156,766; July 11.
- Candy, Chocolate-coated. Cardinet Candy Company. No. 151,701; Feb. 14.
- Candy, Chocolate-covered. Buhr & Smith. No. 157,017; July 25.
- Candy, Coconut. Millen Candy Co. No. 156,708; July 11.
- Candy confections and foods. Thompson's Spa. No. 157,769; Aug. 15.
- Candy, Hard. Candy Products Corporation. No. 155,881; June 6.
- Candy, Hard. Roanoke Candy Company. No. 150,539; Jan. 3.
- Candy having a marshmallow center, Chocolate-coated peanut. Curtiss Candy Co. No. 151,727; Feb. 14.
- Candy mints. Shelby Supply & Manufacturing Company. No. 151,945; Feb. 14.
- Candy, Pipe. Chase & Company Corporation. No. 20,034; renewed Aug. 18, 1922.
- Candy, Pipe. Chase & Company Corporation. No. 20,144; renewed Sept. 15, 1921.
- Candy, Small sugared sticks of. Chase & Company, Corporation. No. 20,003; renewed Aug. 18, 1921.
- Candy, Small sugared sticks of. Chase & Company Corporation. No. 20,178; renewed Sept. 29, 1921.
- Candy—specifically chocolate bars. Loose-Wiles Biscuit Company. No. 160,906; Oct. 31.
- Candy sticks. Gardiner-Lucas Co. No. 151,770; Feb. 14.
- Candy suckers. Smith-Kirk Candy Co. No. 155,835; June 6.
- Candy, sugar. Gardiner-Lucas Co. No. 151,771; Feb. 14.
- Candles. Eagle Candle Co. No. 151,326; Jan. 31.
- Candles. Norton Company. No. 151,351; Jan. 31.
- Candles. Standard Oil Company of New York. No. 162,599; Dec. 19.
- Candles. Will & Baumer Candle Co. No. 153,064; Mar. 4.
- Candles. Will & Baumer Candle Co. Nos. 153,065-6; Mar. 7.
- Candles. Will & Baumer Candle Co. Nos. 153,067-8; Mar. 7.
- Candles. Will & Baumer Candle Co. No. 153,069; Mar. 7.
- Candles. Will & Baumer Candle Co. No. 154,461; Apr. 11.
- Candles. Will & Baumer Candle Co. No. 161,995; Nov. 28.
- Candles. Will & Baumer Candle Co. Nos. 162,617-23; Dec. 10.
- Candles. Will & Baumer Candle Co. No. 162,942; Dec. 26.
- Candles. White Tar Company. No. 159,242; Sept. 19.
- Candles and oils. Haddock, Parker & Co. No. 158,696; Sept. 12.
- Cane sirup and corn sirup mixed for food purposes. Burns Syrup Company. No. 156,848; July 18.
- Cantaloupes and fresh grapes. R. Krasnow & Sons. No. 151,835; Feb. 14.
- Cantaloupes, Fresh. Scotland Co-Operative Cantaloupe Exchange. No. 160,661; Oct. 24.
- Capes, Ladies' and misses'. Treeline Suit Company. No. 161,649; Nov. 14.
- Caps. Gilson Company. No. 157,957; Aug. 22.
- Caps and hats for men, women, and children. Seattle Cap Manufacturing Co. No. 159,094; Sept. 19.
- Caps and hats, Men's and boys'. Ambassador Cap Co. No. 156,983; July 25.
- Caps and hoods. Samuel Ach Co., Inc. No. 161,287; Nov. 7.
- Caps, Boys' and men's. Royal Hat Co. No. 161,280; Nov. 7.
- Caps, Children's. United Hat & Cap Co. No. 161,323; Nov. 7.
- Caps for men and boys. Funk & Maltz Cap Co. No. 151,133; Jan. 24.
- Caps for men and children. H. Jacobs. No. 154,585; Apr. 18.
- Caps, fuses, igniters, etc. E. I. du Pont de Nemours & Company. No. 155,407; May 30.
- Caps, Men's. David D. Doniger & Co. Inc. No. 156,231; June 20.
- Caps, Men's. A. D. Feldstein. No. 159,182; Sept. 19.
- Caps, Men's and boys'. Leon Wallace & Sons. No. 159,237; Sept. 19.
- Caps, Men's and boys'. Leon Wallace & Sons. No. 160,813; Oct. 24.
- Caps, Men's and boys'. Town Talk Manufacturing Co. No. 159,130; Sept. 19.
- Caps, Peaks or visors for. Mutual Cap Front Mfg. Co. No. 161,568; Nov. 14.
- Caps, Silk, felt cloth, and fur. Expert Cap Mfg. Co. No. 157,944; Aug. 22.
- Capsules for hay fever, asthma, etc., Medicinal. E. W. Rahn. No. 158,063; Aug. 22.
- Car bodies, parts, and accessories, Motor-. Carrosserie Van Den Plas, Société Anonyme. No. 160,440; Oct. 24.
- Car, Child's wheeled. United States Steel Toy Company. No. 153,342; Mar. 14.
- Car for children, Coaster. Bryan & Sandbach. No. 157,880; Aug. 22.
- Car metal roofs and parts of same, Railroad-. P. H. Murphy Company. Nos. 153,257-8; Mar. 14.
- Cars and commercial motor-vehicles, Passenger motor-. Lexington Motor Company. No. 152,861; Mar. 7.
- Cars and freight containers, Railroad. L. C. L. Co. No. 162,806; Dec. 26.
- Cars and parts thereof, Certain. Koppel Industrial Car & Equipment Company. No. 157,122; July 25.
- Cars and pressed-steel car wheels, Railway motor. Fairmont Gas Engine & Railway Motor Car Co. No. 160,469; Oct. 24.
- Cars and roller-bearing trucks, motor and horse drawn, and wheels and axles, Industrial and mine. Railway and Mine Supply Company. No. 160,639; Oct. 24.
- Cars and trucks, Lubricating system or apparatus and parts thereof for motor. Bowen Products Corporation. No. 162,688; Dec. 26.
- Cars and vehicles, Motor. Lexington Motor Company. Nos. 154,081-2; Apr. 4.
- Cars, Children's coaster. Woodstock Manufacturing Co. No. 159,594; Sept. 26.
- Cars, Children's three-wheel propelling. E. S. Rogers. No. 159,498; Sept. 26.
- Cars, Dump. Clark Car Company. No. 159,175; Sept. 19.
- Cars, Dump. Clark Car Company. No. 162,705; Dec. 26.
- Cars, Motor. Crossley Motors, Limited. No. 159,859; Oct. 10.
- Cars, Motor. Duesenberg Automobile & Motors Co. No. 160,449; Oct. 24.
- Cars, Radiators for motor. T. Auberger and D. Beaude-non. No. 159,800; Oct. 10.
- Caramels, Chocolate. Metro Chocolate Co. No. 162,444; Dec. 12.
- Caramels, chocolates, and other candies. National Caramel Co. No. 154,640; Apr. 18.
- Carbon and high-speed steel twist drills, reamers, rasps, etc. Dyktor Brothers Inc. No. 158,861; July 18.
- Carbon black. G. W. De Smet. No. 159,328; Sept. 26.
- Carbon black. Thermatomic Carbon Co. No. 160,981; Oct. 31.
- Carbon blacks and paint pigments. Sander, Wieler & Co. No. 159,755; Oct. 3.
- Carbon from cylinders and gas-passages of internal-combustion engines, Composition to remove. Step-On-It Manufacturing Company. No. 153,874; Mar. 28.
- Carbon remover. Motor-Kleen Corporation. No. 156,140; June 13.
- Carbon remover. Solveno Chemical Co. No. 158,100; Aug. 22.
- Carbon remover. T. S. Witherspoon. No. 158,322; Aug. 29.
- Carbon remover. G. F. Wolfe. No. 150,656; Jan. 3.
- Carbon remover and chemical grease and stain remover, Chemical. S. Morin. No. 160,927; Oct. 31.
- Carbon remover, Chemical. Carbon Chase Co. No. 161,091; Nov. 7.
- Carbon remover, Chemical. Chemical Reduction Co. No. 150,286; Jan. 3.
- Carbon remover, Chemical. H. E. Vassar. No. 151,617; Feb. 7.
- Carbon-removing compound. Kodyte Laboratories. No. 151,523; Feb. 7.
- Carbon steel, high-speed or alloyed tool steel. Dyktor Brothers, Inc. No. 154,922; May 16.
- Carbonated and lithiated water, ginger ale, etc. Ritz-Carlton Mineral Water Co. No. 155,515; May 30.
- Carbonizing compounds. Lecar Carbon Company. No. 160,902; Oct. 31.
- Carbons, Arc-light. National Carbon Company. Nos. 155,903-4; June 6.
- Carbons, Decolorizing and activated. Carbox Company. No. 158,398; Sept. 5.
- Carbureting boxes and pots. Quigley Furnace Specialties Co. No. 152,959; Mar. 7.
- Carburetors. Motor Economists, Inc. No. 161,823; Nov. 21.
- Carburetors. Never-Fail Carburetor Co. Inc. No. 153,940; Mar. 28.
- Carburetors. Swartz Manufacturing Company. No. 154,160; Apr. 4.
- Carburetors. U. S. Carburetor Co. No. 159,562; Sept. 26.
- Carburetors. Verto Products Company. No. 153,897; Mar. 28.
- Carburetors and gas water heaters and tank water heaters, Certain. H. Swartz. No. 154,454; Apr. 11.

Alphabetical list of trade-marks—Continued.

- Carburetors, thermostatic controls for internal-combustion engines, etc. Bencke & Kropf Manufacturing Company. No. 161,406; Nov. 14.
- Cardboard display forms. Mouat-Swan Corporation. No. 159,957; Oct. 10.
- Card, Cloth. Mechanical Fabric Company. No. 20,538; renewed Jan. 5, 1922.
- Card-filing system. W. A. Ringler. No. 156,404; June 20.
- Cards and publications, Certain. Davis-Smith Company. No. 162,223; Dec. 12.
- Cards, Greeting. Post-Michel Co. No. 151,912; Feb. 14.
- Cards, Illustrated mailing. E. Nieman. No. 153,502; Mar. 21.
- Cards, Packaged set of changeable-feature folding. Irokoese Trading Corporation. No. 157,268; July 25.
- Cards, Playing. A. Dougherty. Nos. 153,633-4; Mar. 21.
- Cards, Playing. A. Dougherty. No. 155,148; May 16.
- Cards, Playing. A. Dougherty. No. 157,927; Aug. 22.
- Cards, Playing. A. Dougherty. No. 22,010; renewed Nov. 22, 1922.
- Cards, Playing. G. L. McCarthy. No. 152,035; Feb. 14.
- Cards, Playing. New York Consolidated Card Company. No. 21,093; renewed May 10, 1922.
- Cards, Playing. New York Consolidated Card Co. No. 162,566; Dec. 19.
- Cards, Playing. Russell Playing-Card Co. Nos. 154,143-4; Apr. 4.
- Cards, Playing. Standard Playing Card Co. No. 160,679; Oct. 24.
- Cards, Playing. United States Playing Card Company. Nos. 151,269-73; Jan. 24.
- Cards, Playing. United States Playing Card Company. No. 151,986; Feb. 14.
- Cards, Playing. United States Playing Card Company. Nos. 152,528-9; Feb. 28.
- Cards, Playing. United States Playing Card Company. No. 153,340; Mar. 14.
- Cards, Playing. United States Playing Card Company. Nos. 153,889-94; Mar. 28.
- Cards, Playing. United States Playing Card Company. No. 155,183; May 16.
- Cards, Playing. United States Playing Card Company. No. 155,547; May 30.
- Cards, Playing. United States Playing Card Company. No. 157,439; Aug. 1.
- Cards, Playing. United States Playing Card Company. No. 158,128; Aug. 22.
- Cars, Playing. United States Playing Card Company. No. 158,843; Sept. 12.
- Cards, Playing. United States Playing Card Company. No. 160,713; Oct. 24.
- Cards, Push. S. Gottlieb. No. 162,254; Dec. 12.
- Cards, Record. Gaynor Manufacturing Company. No. 154,944; May 16.
- Cards, sheets, circulars, and pamphlets, Printed, embossed, and engraved advertising. Wally, Inc. No. 155,300; May 23.
- Carpet sweepers. Bissell Carpet Sweeper Company. No. 153,665; Mar. 28.
- Carpet sweepers. Jordan Marsh Company. No. 161,789; Nov. 21.
- Carpet sweepers, table forks, tool handles, etc. Strevell-Paterson Hardware Co. No. 155,094; May 16.
- Carpeting and tapestry rugs, Stair. W. T. Grant Company. No. 161,491; Nov. 14.
- Carpets and rugs, Fabric. Empire Carpet Co. No. 162,960; Dec. 26.
- Carpets and rugs, Grass. Crex Carpet Company. No. 156,222; June 20.
- Carpets, Chenille. Hardwick & Magee Company. No. 156,286; June 20.
- Carriages, machines, plows, etc., Bolts for. Upson Nut Company. No. 20,628; renewed Jan. 19, 1922.
- Cartoon serials. Sun-Herald Corporation. No. 159,546; Sept. 26.
- Cartoons. King Feature Syndicate, Inc. No. 162,284; Dec. 12.
- Cartoons, Newspaper. Public Ledger Company. No. 153,827; Mar. 28.
- Cartoons, Series of. Bell Syndicate, Inc. No. 158,611; Sept. 12.
- Cartoons, Series of. Fontaine Fox. Nos. 150,368-71; Jan. 3.
- Cartoons, Series of. F. Fox. No. 150,821; Jan. 10.
- Cartoons, Series of. George Matthews Adams Service. No. 158,962; Sept. 19.
- Cartoons, Series of. R. L. Goldberg. No. 151,777; Feb. 14.
- Cartoons, Series of. C. H. Medcraft. No. 157,712; Aug. 15.
- Cartoons, Series of. Tribune Company. Nos. 151,978-9; Feb. 14.
- Cartoons, Series of. Tribune Company. Nos. 153,027-8; Mar. 7.
- Cartoons, Series of. Tribune Company. No. 160,696; Oct. 24.
- Cartoons, Series of. E. Wheelan. No. 153,904; Mar. 28.
- Cartridges, Metallic. Peters Cartridge Company. No. 153,277; Mar. 14.
- Carts, Dump. Auto Truck Service Co. No. 156,969; July 18.
- Carts, wagons, and trucks. A. L. Frame. No. 160,489; Oct. 24.
- Carving knives, etc., and can openers. Clyde Castings Co. No. 154,251; Apr. 11.
- Casein product or material. P. C. Christensen. No. 155,642; June 6.
- Cases and bags. Knickerbocker Case Company. No. 158,350; Aug. 29.
- Cases and bags for holding fishing material. Knickerbocker Case Company. No. 159,403; Sept. 26.
- Cases and bags of leather, fiber, and other material for fishing tackle. Knickerbocker Case Company. Nos. 155,466-7; May 30.
- Cases, boxes, and containers for eyeglasses, opera glasses, etc. Aitchison & Company. No. 154,857; May 16.
- Cash registers, and parts thereof. Remington Arms Company. Nos. 155,063-4; May 16.
- Cash registers and parts thereof. Remington Arms Company. Nos. 161,977-8; Nov. 28.
- Caskets. Mound Coffin Co. No. 162,558; Dec. 19.
- Casserole holders. Josephine M. Dillmeier Company. No. 150,788; Jan. 10.
- Casters. Bassick Company. No. 150,727; Jan. 10.
- Castings lines, Hard-braid. B. F. Gladding & Co. No. 155,893; June 6.
- Castings lines, Waterproof braided silk. B. F. Gladding & Co. No. 150,674; Jan. 3.
- Castings, orthopedic, and dental plaster. United States Gypsum Company. No. 162,610; Dec. 19.
- Castings. Metallurgische Gesellschaft Richard Walter & Co. No. 159,952; Oct. 10.
- Castings and forgings, etc., Iron and steel. P. & M. Co. No. 161,826; Nov. 21.
- Castings and forgings, Iron and steel. Rockford Malleable Iron Works. No. 150,958; Jan. 10.
- Castings and forgings, Metal. Dunbar Drop Forge Company. No. 157,047; July 25.
- Castings and forgings, Metal. Mueller Metals Company. No. 162,560; Dec. 19.
- Castings and nonferrous alloys. Wellman Bronze Company. No. 153,901; Mar. 28.
- Castings, Certain. Kingwell Bros. No. 152,443; Feb. 28.
- Castings, High-temperature metal. Electro Alloys Company. No. 161,767; Nov. 21.
- Castings, Iron and steel. Millbury Steel Foundry Company. No. 161,820; Nov. 21.
- Castings, Malleable. Eberhard Manufacturing Company. No. 21,059; renewed Apr. 26, 1922.
- Castings, Malleable-iron. Iowa Malleable Iron Company. No. 156,690; July 11.
- Castings, Metal. Doehler Die-Casting Company. Nos. 159,334-5; Sept. 26.
- Castings, Metal. International Permold Company. No. 159,386; Sept. 26.
- Castings, Nonferrous. Acme Die Casting Corporation. No. 153,093; Mar. 14.
- Castings, Nonferrous metal. Frontier Bronze Corporation. No. 159,354; Sept. 26.
- Catalogue. Shapleigh Hardware Company. No. 157,764; Aug. 15.
- Catalogue, Annual. Holophane Glass Company. No. 150,404; Jan. 3.
- Catalogue, Monthly. Jaburg-Miller Co. No. 159,390; Sept. 26.
- Catalogues and trade journals. Colby Steel and Engraving Co. No. 153,426; Mar. 21.
- Catalogues, Annual. Kapo Manufacturing Company. No. 153,477; Mar. 21.
- Catalogues, Annual. Peter Henderson & Co. No. 155,241; May 23.
- Catamenial bandages. Junoform Company. No. 153,217; Mar. 14.
- Catamenial bandages. J. B. Marshall. No. 155,006; May 16.
- Catamenial napkins. J. Weissman. No. 154,176; Apr. 4.
- Cataract, Apparatus for the complete extraction of. I. Barraquer Barraquer. No. 153,467; Mar. 21.
- Catchup, Beet. M. A. Passier. No. 154,653; Apr. 18.
- Catchup, hominy, fruits, oysters, salmon, etc. Wilson & Co. No. 159,786; Oct. 3.
- Cathartic for constipation. W. S. Powell. No. 157,374; Aug. 1.
- Catsup and chilli sauce. Greenabaum Bros. No. 151,786; Feb. 14.
- Caustic soda, chlorates, etc. United Alkali Co. Nos. 154,167-8; Apr. 4.
- Cement. Burham, Brick, Lime and Cement Company. No. 20,950; renewed Apr. 5, 1922.
- Cement. Braunschweiger Cementwerke. No. 19,874; renewed July 14, 1921.
- Cement. United Shoe Machinery Corporation. No. 158,555; Sept. 5.
- Cement, Bituminous. Barrett Company. No. 153,974; Apr. 4.
- Cement, Bituminous. G. S. Bowdish. No. 159,665; Oct. 3.
- Cement, Building. Brooklyn Fire Bricks Works. No. 152,694; Mar. 7.
- Cement, Building. A. T. Malméd. No. 162,440; Dec. 12.
- Cement, Certain. Rutland Fire Clay Co. No. 160,651; Oct. 24.
- Cement, Film. F. St. John. No. 153,324; Mar. 14.
- Cement, Fire-brick. A. P. Green Fire Brick Co. No. 160,512; Oct. 24.

Alphabetical list of trade-marks—Continued.

- Cement, Fireproof. Mack Engineering & Supply Co. No. 154,090; Apr. 4.
- Cement for construction purposes. Carney Cement Company. No. 159,677; Oct. 3.
- Cement for holding artificial teeth firmly in place. F. L. Molyneux. No. 162,320; Dec. 12.
- Cement for repairing broken china, glass, etc. N. S. Hill. No. 160,208; Oct. 17.
- Cement, Hardening and waterproofing ingredients for. Vitrixfy Company. Nos. 162,928-9; Dec. 26.
- Cement, Portland. Cement Export Company. No. 153,147; Mar. 14.
- Cement, Portland. Gillingham Portland Cement Company. No. 22,244; renewed Dec. 27, 1922.
- Cement, Portland. Lehigh Portland Cement Company. No. 152,609; Feb. 28.
- Cement, Portland. Marquette Cement Manufacturing Company. No. 160,593; Oct. 24.
- Cement, Portland. Old Mission Portland Cement Company. No. 156,032; June 13.
- Cement, Portland. Petoskey Portland Cement Co. No. 152,482; Feb. 28.
- Cement, Portland. Wyandotte Portland Cement Company. No. 154,187; Apr. 4.
- Cement, Radiator. F. Prentice. No. 153,615; Mar. 21.
- Cement, Refractory. Harbison-Walker Refractories Company. No. 154,043; Apr. 4.
- Cement, Refractory. Harbison-Walker Refractories Company. No. 160,206; Oct. 17.
- Cement, Roof. Kling-Tight Products Co. No. 155,736; June 6.
- Cement stucco. W. H. Pipkorn Co. No. 162,450; Dec. 12.
- Cement such as is used in the manufacture and repairing of boots and shoes. United Shoe Machinery Corporation. No. 159,564; Sept. 26.
- Cement tiles for walls and floors. Angelo Repetto Company. No. 155,923; June 13.
- Cement-working tools. Cement Tools Company. No. 161,690; Nov. 14.
- Cements. F. L. Trickey. Nos. 161,987-90; Nov. 28.
- Cements. Adhesive. Sidney Loog & Sons. No. 151,341; Jan. 31.
- Cements, Adhesive, waterproof adhesive, and other. E. I. du Pont de Nemours and Company. No. 161,936; Nov. 28.
- Cements, Certain. Rubber and Cements, Incorporated. No. 155,071; May 16.
- Cements, repair gum, and outfits. B. F. Goodrich Company. No. 159,701; Oct. 3.
- Centrifugal machinery. De Laval Separator Company. No. 153,693; Mar. 28.
- Cereal, Breakfast. Economic Materials Co. No. 162,430; Dec. 12.
- Cereal food products. Corno Mills Company. Nos. 159,856-7; Oct. 10.
- Cereal, hominy, oatmeal, etc., Breakfast. Cereal Products Co. No. 152,130; Feb. 21.
- Cereal malt beverage sirup concentrate. Cereal Products Refining Company. No. 150,767; Jan. 10.
- Cereals and breads, Breakfast. C. W. Graves. No. 153,190; Mar. 14.
- Cereals, Breakfast. Midland Cereal Products Co. No. 159,630; Sept. 26.
- Cereals for use as breakfast food, Roasted and ground. Caperverdian Trading Company. No. 162,698; Dec. 26.
- Cereals, pancake-flour, etc., Breakfast. Patent Cereals Company. No. 152,935; Mar. 7.
- Certain merchandise. H. Katz. No. 154,071; Apr. 4.
- Chains and tire-grip chains. United States Chain & Forging Co. No. 159,563; Sept. 26.
- Chains, Antiskid. Bear Manufacturing Co. No. 158,175; Aug. 29.
- Chains for cycles, Driving. Perry and Company. No. 159,733; Oct. 3.
- Chains, loops, rings, and hooks, etc., Certain. American Chain Company. No. 154,861; May 16.
- Chains of base metal, cross and tire chains. United States Chain & Forging Co. No. 162,144; Dec. 5.
- Chairs. Frank Rieder & Sons. No. 151,925; Feb. 14.
- Chairs. Ingewood Manufacturing Company. No. 160,780; Oct. 24.
- Chairs and tables for general use. W. Heerling. No. 158,978; Sept. 19.
- Chairs, Certain. Peabody School Furniture Co. No. 151,902; Feb. 14.
- Chairs, Certain. Plimpton Scofield Company. No. 152,106; Feb. 14.
- Chairs for children, High. Komfy Products Company. No. 159,009; Sept. 19.
- Chairs, Household, office, and factory. Nichols & Stone Company. No. 159,051; Sept. 19.
- Chairs, rockers, tables, beds, dressers, desks, and fiber office furniture, Household. American Chair Company. No. 158,879; Sept. 19.
- Chairs, settees, costumers, sofas. B. L. Marble Chair Company. No. 153,492; Mar. 21.
- Chalks, Billiard. National Billiard Chalk Co. No. 157,274; July 25.
- Chambray and chevviots in the piece. Riverside & Dan River Cotton Mills, Inc. No. 156,405; June 20.
- Chambray and chevviots in the piece. Riverside & Dan River Cotton Mills, Inc. No. 157,572; Aug. 8.
- Champagne wines. Werle et Compagnie. No. 151,004; Jan. 10.
- Champagne wines. Werle et Compagnie. No. 151,633; Feb. 7.
- Champagnes and wines. Gold Seal Products Company. No. 157,962; Aug. 22.
- Change makers, Automatic. Bankers Savings & Credit System Company. No. 153,656; Mar. 28.
- Charcoal. Pacific By-Products Co. No. 159,978; Oct. 10.
- Charcoal in its raw state, Absorbent. W. Adler. Nos. 159,791-2; Oct. 10.
- Charcoal not specially prepared for decolorizing or deodorizing. Tennessee Eastman Corporation. No. 160,690; Oct. 24.
- Charcoal of the highest adsorptive power ready for injections, Suspension of animal. E. Merck. No. 161,807; Nov. 21.
- Charts, Prepared business. G. M. Sachs. No. 153,517; Mar. 21.
- Charts, Prepared business. G. M. Sachs. No. 154,146; Apr. 4.
- Check, ledger, envelope, and colored papers, Writing. Chemical Paper Manufacturing Company. Nos. 152,711-12; Mar. 7.
- Check punches and holders. National Checking Company. No. 153,939; Mar. 28.
- Checks, check-book cases, and check-book covers, etc. William Mann Company. No. 160,740; Oct. 24.
- Checks, drafts, check-book covers, and cutters. Protectu Corporation. No. 154,131; Apr. 4.
- Checks, shopping checks, promissory notes, and drafts. Blank forms for. H. C. Boschen. No. 150,743; Jan. 10.
- Cheese. Coöperative Zuivel-Export-Vereeniging "Noord-Holland." Nos. 159,684-5; Oct. 3.
- Cheese. S. Galle & Co. No. 153,590; Mar. 21.
- Cheese. J. L. Kraft & Bros. Co. No. 155,898; June 6.
- Cheese. Oregon Dairymen's Cooperative League. No. 159,975; Oct. 10.
- Cheese. Roethlisberger & Co. Nos. 150,543-4; Jan. 3.
- Cheese. O. Roth. No. 152,263; Feb. 21.
- Cheese. R. H. Volmer. No. 157,787; Aug. 15.
- Cheese. Wisconsin Cheese Producers Federation. No. 162,944; Dec. 26.
- Cheese and butter. Marré y Cia. No. 152,872; Mar. 7.
- Cheese and cheese preserve. Käseexport A. G. Goldbach (Emmenthal). No. 152,851; Mar. 7.
- Cheese and preserved cheese. Gebruder Joost. No. 161,788; Nov. 21.
- Cheese, Brinda. Purity Cream Cheese Company. No. 152,958; Mar. 7.
- Cheese of Emmenthal and preserves made of same. Joost & Co. No. 159,919; Oct. 10.
- Cheese sticks. B. M. Spencer. No. 160,976; Oct. 31.
- Cheese, Swiss. Alpina Cheese Co. No. 152,653; Mar. 7.
- Cheeses, spaghetti, broths, soups, etc. A. Silz, Inc. No. 159,523; Sept. 26.
- Chemical and pharmaceutical preparation. Society of Chemical Industry in Basle. No. 158,543; Sept. 5.
- Chemical composition. M. R. Rendell. No. 157,377; Aug. 1.
- Chemical compound. P. M. Berwald. No. 160,836; Oct. 31.
- Chemical compound for removing ink from printing rolls, etc. Charles Eneu Johnson & Company. No. 150,423; Jan. 3.
- Chemical compound for treating the nasal cavities and throat. J. R. Brierley. No. 150,262; Jan. 3.
- Chemical compounds. Certain. Société Anonyme des Produits du Lion Noir. Nos. 161,629-30; Nov. 14.
- Chemical for preventing decomposition. Grasselli Chemical Company. No. 156,281; June 20.
- Chemical for removing dirt and stains. H. P. Spencer. No. 150,586; Jan. 3.
- Chemical, medicinal, and pharmaceutical preparation. K. Kovacs. No. 151,525; Feb. 7.
- Chemical, medicinal, and pharmaceutical preparations. Upjohn Company. No. 154,171; Apr. 4.
- Chemical, medicinal, and pharmaceutical preparations. Certain. Citizens' Wholesale Supply Co. No. 150,294; Jan. 3.
- Chemical, medicinal, and pharmaceutical preparations. Certain. G. H. Guy. No. 155,699; June 6.
- Chemical, medicinal, and pharmaceutical preparations. Certain. Parke, Davis & Company. No. 156,384; June 20.
- Chemical, pharmaceutical, and toilet preparations, Certain. E. Schneller. No. 151,594; Feb. 7.
- Chemical preparation. Abbott Hardware Co. No. 158,167; Aug. 29.
- Chemical preparation. National Marking Machine Company. No. 159,455; Sept. 26.
- Chemical preparation as an insect exterminator. J. Liberto. No. 155,472; May 30.
- Chemical preparation, Certain. E. H. Leslie. No. 160,903; Oct. 31.
- Chemical preparation, Certain. J. E. Sims. No. 152,271; Feb. 21.
- Chemical preparation for the removal of superfluous hair. Bertley Co. No. 157,804; Aug. 15.
- Chemical preparation for use on burning material to color the flames. C. V. Pohlson. Nos. 161,265-6; Nov. 7.

Alphabetical list of trade-marks—Continued.

- Chemical preparation used as a disinfectant, germicide, deodorant, etc. New Southern Drug Company. No. 155,782; June 6.
- Chemical preparations, Certain. Chemical Products Company. No. 160,845; Oct. 31.
- Chemical preparations, Certain. Commercial Solvents Corporation. No. 157,806; Aug. 15.
- Chemical preparations, Certain. Elektrizitätswerk Lonza. No. 152,214; Feb. 21.
- Chemical preparations, Certain. R. M. Hollingshead & Co. No. 152,193; Feb. 21.
- Chemical preparations, Certain. International Cotton Protecting Company. No. 160,891; Oct. 31.
- Chemical preparations, Certain. Komo Chemical Company. No. 160,900; Oct. 31.
- Chemical preparations, Certain. McDougall & Yalding Ltd. Nos. 152,219-20; Feb. 21.
- Chemical preparations, Certain. J. A. Riner. No. 150,538; Jan. 3.
- Chemical preparations, Certain magnesia, etc. Philip Carey Manufacturing Company. No. 150,520; Jan. 3.
- Chemical preparations for certain purposes. Grasselli Chemical Company. No. 156,272; June 20.
- Chemical products derived from sugar. Schering & Glatz. No. 21,864; renewed Oct. 11, 1922.
- Chemical solutions, Certain. A. Z. Pedersen. No. 150,515; Jan. 3.
- Chemical substance giving self-rising qualities to flour. Phosphate Products Corporation. No. 156,393; June 20.
- Chemical substance in the nature of a flux. Carreite Company. No. 157,888; Aug. 22.
- Chemicals. Porter Chemical Company. No. 159,063; Sept. 18.
- Chemicals and dental preparations, Certain. L. D. Caulk Company. No. 156,850; July 18.
- Chemicals and dyestuffs. Ste. An. de Couleurs d'Aniline et Produits Chimiques, S. A. C. A. No. 161,840; Nov. 21.
- Chemicals and paints, more particularly lithopone, permanent zinc paint. Ste. Ame. des Industries Chimiques Wilsele. No. 158,546; Sept. 5.
- Chemicals and pharmaceuticals. T. Fujisawa & Company. No. 159,356; Sept. 26.
- Chemicals, Certain. Innis, Speiden & Co. No. 156,307; June 20.
- Chemicals, Certain. Northwestern Chemical Company. No. 155,498; May 30.
- Chemicals, Certain. Sherwin-Williams Company. No. 157,387; Aug. 1.
- Chemicals, Certain named. Commercial Solvents Corporation. No. 154,252; Apr. 11.
- Chemicals for generating gas for fumigating and disinfecting purposes. J. W. Van Meter. No. 153,627; Mar. 21.
- Chemicals, medicines, and pharmaceutical preparations. Caravel Company. No. 155,392; May 30.
- Chemicals, medicines, and pharmaceutical preparations. Detroit White Lead Works. No. 154,264; Apr. 11.
- Chemicals, medicines, and pharmaceutical preparations. Masco Drug Company. No. 160,920; Oct. 31.
- Chemicals, medicines, and pharmaceutical preparations. Puritan Drug Mfg. Co. No. 159,992; Oct. 10.
- Chemicals, medicines, and pharmaceutical preparations. B. Rotenberg. No. 157,381; Aug. 1.
- Chemicals, medicines, and pharmaceutical preparations. Sherwin-Williams Company. No. 154,334; Apr. 11.
- Chemicals or intermediates, rubber accelerators or catalysts, rubber-compounding ingredients, etc., Coal-tar. National Aniline & Chemical Company. Nos. 160,929-33; Oct. 31.
- Chemises, camisoles, etc. Morvay & Son Manufacturing Company. No. 150,486; Jan. 3.
- Cheroofs, cigars, cigarettes. P. Whitlock. No. 15,624; renewed June 19, 1918.
- Cherries, Chocolate-covered. P. Messing. No. 154,629; Apr. 18.
- Cherries, peaches, plums, apples, etc., Fresh. Wenatchee Valley Fruit Exchange, Inc. No. 162,149; Dec. 5.
- Chests, Cedar. The Standard Red Cedar Chest Co. No. 154,847; May 9.
- Chests, Cedar. Standard Red Cedar Chest Co. No. 155,535; May 30.
- Chests, Tool. Union Tool Chest Company. No. 151,267; Jan. 24.
- Chewing gum. J. G. Kitchell. No. 156,888; July 18.
- Chicle and essence of tobacco, Combination. Chew't Company. No. 150,291; Jan. 3.
- Chicory. Arlatte & Cie. No. 161,741; Nov. 21.
- Chili sauce and catchup. Greenbaum Bros. No. 154,558; Apr. 18.
- Chill tonic and mange remedy. W. G. Grist. No. 154,039; Apr. 4.
- Chimneys and brick settings for boilers, Brick and concrete. Rust Engineering Company. No. 156,049; June 13.
- China clay and plain and colored bases for dressing, whitening, and fulling compounds. E. & F. King & Company. No. 160,552; Oct. 24.
- China, earthenware, pottery, stoneware, etc. Geo. V. Millar Co. No. 159,722; Oct. 3.
- China, Hand-painted. L. K. Davidsen. No. 152,738; Mar. 7.
- China tableware. George Borgfeldt & Co. No. 161,076; Nov. 7.
- Chinaware. Jordan Marsh Company. No. 161,179; Nov. 7.
- Chinaware, earthenware, porcelain. Ovington Bros. Company. No. 157,169; July 25.
- Chisels and punches, Cold. Western Tool & Forge Company. No. 156,081; June 13.
- Chlorine-control apparatus. Wallace & Tiernan Co. No. 157,629; Aug. 8.
- Chlorine-control apparatus, chemical-control equipment for water purification, etc. Wallace & Tiernan Co. No. 160,321; Oct. 17.
- Chlorine-control apparatus, chemical-control equipment for water purification, etc. Wallace & Tiernan Co. No. 160,718; Oct. 24.
- Chlorine solution, fly spray, sour-milk-testing solution, bacteriologists' cultures, etc. Dairy Laboratories. No. 155,662; June 6.
- Chocolate. Eline's Incorporated. No. 154,786; May 9.
- Chocolate. Norma Chocolate Company. No. 153,810; Mar. 28.
- Chocolate. H. L. Pierce. No. 22,356; renewed Jan. 24, 1923.
- Chocolate and cocoa. Cream of Chocolate Company of America. No. 162,427; Dec. 12.
- Chocolate and cocoa. Cream of Chocolate Company of America. No. 162,635; Dec. 19.
- Chocolate and cocoa, Milk. Peter Cailler Kohler Swiss Chocolates Co. No. 152,481; Feb. 28.
- Chocolate bar. Schall's Inc. No. 154,685; Apr. 18.
- Chocolate bars. Rueckheim Bros. & Eckstein. No. 158,290; Aug. 29.
- Chocolate-coated marshmallow and caramel bar candy. Nutrine Mfg. Co. No. 156,721; July 11.
- Chocolate coating. Ideal Cocoa & Chocolate Co. No. 154,583; Apr. 18.
- Chocolate coating. Ideal Cocoa & Chocolate Co. No. 162,273; Dec. 12.
- Chocolate coating and cocoa. Peter Cailler Kohler Swiss Chocolates Co. No. 153,613; Mar. 21.
- Chocolate coatings, Cakes of sweet. Walter Baker & Company. No. 156,994; July 25.
- Chocolate, cocoa, and cacao. Naamlooze Vennootschap tot Exploitatie van Cacao-en Chocolaafabrieken Maatschappij A. Driessen. No. 160,595; Oct. 24.
- Chocolate, cocoa, and candies. Brewster Sons Company. No. 158,905; Sept. 19.
- Chocolate, cocoa, chocolate candy, and other candies. Beacon Chocolate Company. No. 156,620; July 11.
- Chocolate, cocoa, etc. Chocolats fins Zurcher S. A. Nos. 152,717-18; Mar. 7.
- Chocolate confectionery. G. J. Johnson. No. 155,991; June 13.
- Chocolate confections. Henry Maillard, Inc. No. 154,772; May 2.
- Chocolate, Cream malted. G. H. Clark. No. 157,655; Aug. 15.
- Chocolate creams. H. W. Eakins. No. 161,014; Oct. 31.
- Chocolate humidors. J. Curry. No. 154,008; Apr. 4.
- Chocolate in cake form, chocolate candies, and sweet chocolate. Bishop & Company. No. 160,394; Oct. 24.
- Chocolate, Pastils of. Naamlooze Vennootschap Droste's Cacao-en Chocolaafabrieken. No. 156,017; June 30.
- Chocolate, Prepared. M. Z. Torreño. No. 154,811; May 9.
- Chocolate, Prepared edible. Knickerbocker Chocolate Co. No. 159,194; Sept. 19.
- Chocolate, Sweet and milk. Hershey Chocolate Company. No. 156,688; July 11.
- Chocolate, Sweet milk. Fortune Products Company. No. 162,505; Dec. 19.
- Chocolates. D. Auerbach & Sons. No. 152,047; Feb. 14.
- Chocolates. Heidelberger Confectionery Co. No. 156,875; July 18.
- Chocolates. Lipman Wolfe & Co. No. 160,567; Oct. 24.
- Chocolates. Lipman Wolfe & Co. No. 160,750; Oct. 24.
- Chocolates. Touraine Company. No. 154,715; Apr. 18.
- Chocolates and bonbons. C. Takis. No. 162,913; Dec. 26.
- Chocolates and candies. Atlas Candy Mfg. Co. No. 154,479; Apr. 18.
- Chocolates and candies. Littlefield & Steere Co. No. 154,796; May 9.
- Chocolates and candies. Novia Candy Co. No. 151,889; Feb. 14.
- Chocolates and candy. Smith-Kirk Candy Co. No. 156,057; June 13.
- Chocolates, Assorted. National Drug Stores Corp. No. 160,597; Oct. 24.
- Chocolates, candies, peanut butter, bonbons. Smith-Kirk Candy Co. No. 156,056; June 13.
- Chocolates, chocolate bars, and chocolate nut bars. Merckens, Inc. No. 156,893; July 18.
- Chowchow, pickles, catsup, etc. Hirsch Bros. & Co. No. 152,071; Feb. 14.
- Christmas-tree outfits. M. Propp Co. No. 152,956; Mar. 7.
- Christmas trees, Decoration suitable for ornamentation of. Conley Foil Company. No. 152,374; Feb. 28.
- Chronometers, watches, clocks, wrist watches, and sautoir watches. H. E. Jacobi. No. 158,466; Sept. 5.
- Chucks, Tapping. W. L. Procnier. No. 162,649; Dec. 19.
- Churns, cream separators, etc. Bessire & Company. No. 151,429; Feb. 7.
- Cider and nonalcoholic beverages. Heckman-Miller Co. No. 154,045; Apr. 4.

Alphabetical list of trade-marks—Continued.

- Ciders. Duffy-Mott Company. Nos. 160,456-9; Oct. 24.
Ciders and fruit juices. Duffy-Mott Company. Nos. 160,454-5; Oct. 24.
Cigar and cigarette holders. T. H. McClure. No. 156,335; June 20.
Cigar and cigarette holders, pipe stems, etc. Kunstharz-fabrik Dr. Fritz Pollak G. m. b. H. No. 155,469; May 30.
Cigar cutters. Goldsmith, Stern and Co. No. 156,675; July 11.
Cigar lighter, Electric. M. H. Shoenberg. No. 160,968; Oct. 31.
Cigars. All Saints Cigar Company. No. 152,336; Feb. 28.
Cigars. Y. Alvarez. No. 19,585; renewed May 26, 1921.
Cigars. I. Alvarez. No. 19,936; renewed July 28, 1922.
Cigars. I. Alvarez. No. 19,947; renewed July 28, 1921.
Cigars. J. Bauhofer. No. 161,917; Nov. 28.
Cigars. W. Bercovich. No. 153,119; Mar. 14.
Cigars. Paul I. Bernstein. No. 152,685; Mar. 7.
Cigars. S. B. Brafman. No. 150,748; Jan. 10.
Cigars. Central Cigar Manufacturing Company. No. 152,706; Mar. 7.
Cigars. J. H. Chandler. No. 154,902; May 16.
Cigars. Cigar Makers Co-Operative Company. No. 150,771; Jan. 10.
Cigars. Henry Clay and Bock & Co. Nos. 150,839-40; Jan. 10.
Cigars. Coast Specialty Co. No. 153,139; Mar. 14.
Cigars. Congress Cigar Co. No. 152,373; Feb. 28.
Cigars. De Nobili Cigar Co. No. 157,923; Aug. 22.
Cigars. De Nobili Cigar Co. No. 160,446; Oct. 24.
Cigars. Otto Eisenlohr & Bros. Inc. No. 156,862; July 18.
Cigars. The Fair. No. 158,946; Sept. 19.
Cigars. Gene Vall Cigar Co. No. 158,683; Sept. 12.
Cigars. J. Gener. No. 19,887; renewed July 14, 1921.
Cigars. General Cigar Co., Inc. No. 150,823; Jan. 10.
Cigars. General Cigar Co. No. 153,727; Mar. 28.
Cigars. Estate of Henry B. Grauley. No. 150,828; Jan. 10.
Cigars. T. G. Greanias. No. 157,511; Aug. 8.
Cigars. Great Lakes Cigar Mfg. Co. No. 158,685; Sept. 12.
Cigars. Grommes & Elson. No. 152,804; Mar. 7.
Cigars. John C. Guy Company. No. 155,435; May 30.
Cigars. John C. Guy. No. 160,204; Oct. 17.
Cigars. H. & E. Cigar Company. No. 152,423; Feb. 28.
Cigars. Harkert Cigar Co. No. 151,031; Jan. 10.
Cigars. R. Hasel Cigar Co. No. 160,517; Oct. 24.
Cigars. Havana Cigar and Tobacco Factories. Nos. 150,835-7; Jan. 10.
Cigars. Havana Commercial Company. No. 150,834; Jan. 10.
Cigars. L. A. Helback. No. 153,745; Mar. 28.
Cigars. T. A. Henderson. No. 160,521; Oct. 24.
Cigars. John C. Herman & Company. No. 150,841; Jan. 10.
Cigars. John C. Herman & Co. No. 157,975; Aug. 22.
Cigars. King-Ferree Co. No. 157,996; Aug. 22.
Cigars. Kraus & Co. No. 153,776; Mar. 28.
Cigars. R. Landman. No. 160,227; Oct. 17.
Cigars. Le Francis Cigar Company. No. 160,559; Oct. 24.
Cigars. I. Lewis Cigar Manufacturing Co. No. 152,860; Mar. 7.
Cigars. I. Lewis Cigar Manufacturing Co. No. 153,227; Mar. 14.
Cigars. Henry Lowe Cigar Co. No. 156,332; June 20.
Cigars. F. J. Mackey. No. 150,890; Jan. 10.
Cigars. A. Martinez. No. 161,963; Nov. 28.
Cigars. J. H. Masterman. No. 157,541; Aug. 8.
Cigars. Mazer Cigar Manufacturing Company. No. 162,014; Nov. 28.
Cigars. J. N. McCrary. No. 152,452; Feb. 28.
Cigars. J. N. McCrary. No. 158,510; Sept. 5.
Cigars. Mi Favorita Cigar Company. No. 152,461; Feb. 28.
Cigars. B. Midulla. No. 153,247; Mar. 14.
Cigars. M. Moskowitz. No. 153,256; Mar. 14.
Cigars. J. C. Newman Cigar Company. No. 150,919; Jan. 10.
Cigars. F. H. Nuttleman. No. 152,473; Feb. 28.
Cigars. Ogburn-Griffin Grocery Co. No. 161,973; Nov. 28.
Cigars. Y. P. O'Halloran & Son. No. 152,475; Feb. 28.
Cigars. Pan-American Cigar Manufacturing Co. No. 153,819; Mar. 28.
Cigars. Patterson and Hoffman. No. 158,516; Sept. 5.
Cigars. Peoples Drug Stores, Inc. No. 155,507; May 30.
Cigars. E. B. Quinby. No. 152,960; Mar. 7.
Cigars. Reid, Murdoch & Co. Nos. 158,066-7; Aug. 22.
Cigars. Reid, Murdoch & Co. No. 158,523; Sept. 5.
Cigars. W. P. Roberts. No. 158,532; Sept. 5.
Cigars. M. Rosenthal. No. 150,960; Jan. 10.
Cigars. M. Rosenthal. Nos. 152,488-9; Feb. 28.
Cigars. M. Rosenthal. No. 153,841; Mar. 28.
Cigars. M. Rosenthal. No. 156,406; June 20.
Cigars. Rosenthal Bros. & Bendetson. No. 155,070; May 16.
Cigars. San Telmo Cigar Manufacturing Company. No. 153,846; Mar. 28.
Cigars. E. J. Schaefer. No. 158,529; Sept. 5.
Cigars. Estate of J. J. Schaefer, deceased. Nos. 153,164-5; Mar. 14.
Cigars. Estate of Joseph J. Schaefer, deceased. No. 155,282; May 23.
Cigars. Estate of Joseph J. Schaefer. Nos. 156,919-20; July 18.
Cigars. Bernard Schwartz & Sons. No. 153,851; Mar. 28.
Cigars. U. G. Sharp. No. 152,995; Mar. 7.
Cigars. R. P. Sheeter. No. 153,302; Mar. 14.
Cigars. Sidney Cigar Manufacturing Company. No. 158,811; Sept. 12.
Cigars. Silberman & Gast. No. 152,504; Feb. 28.
Cigars. J. Sonnenfeld. No. 153,002; Mar. 7.
Cigars. R. G. Sullivan Estate. No. 153,328; Mar. 14.
Cigars. John W. Surbrug, Inc. No. 153,015; Mar. 7.
Cigars. Tuckett Tobacco Company. No. 158,365; Aug. 29.
Cigars. Van Antwerp's Drug Corporation. No. 153,386; Mar. 14.
Cigars. G. W. Van Slyke & Horton. No. 150,995; Jan. 10.
Cigars. G. W. Van Slyke & Horton. No. 153,345; Mar. 14.
Cigars. Vicente Nieto & Bros. No. 151,276; Jan. 24.
Cigars. Walker-Matteson Company. No. 157,239; July 25.
Cigars. Weibel Cigar Manufacturing Co. No. 153,051; Mar. 7.
Cigars. Joseph Whitcomb & Co. No. 153,058; Mar. 7.
Cigars. Wilcox Grocery Company. No. 151,283; Jan. 24.
Cigars and chewing tobacco. D. C. Glasser Tobacco Company. No. 157,485; Aug. 8.
Cigars and cigarettes. L. Berberian. No. 157,459; Aug. 8.
Cigars and little cigars. R. N. Paris. No. 158,766; Sept. 12.
Cigars and smoking tobacco. Cavour Cigar Company. No. 157,890; Aug. 22.
Cigars and stogies. Cottage Cigar Co. No. 154,007; Apr. 4.
Cigars, cheroots, and cigarettes. Famo Cigar. No. 161,939; Nov. 28.
Cigars, cheroots, cigarettes, smoking and chewing tobacco. Moss & Lowenhaupt Cigar Co. No. 155,491; May 30.
Cigars, cigarettes, and pipe and chewing tobacco. Thompson's Spa. No. 150,986; Jan. 10.
Cigars, cigarettes, and smoking tobacco. Macedonia Tobacco Co. No. 151,035; Jan. 10.
Cigars, cigarettes, and tobacco. Falk Tobacco Company. No. 155,959; June 13.
Cigars, cigarettes, and tobacco. M. Melachrinco Co. No. 153,243; Mar. 14.
Cigars, cigarettes, cheroots, snuff, and manufactured smoking and chewing tobacco. United Cigar Stores Company of America. No. 155,297; May 23.
Cigars, cigarettes, cheroots, tobacco. J. W. Roberts & Son. No. 152,321; Feb. 21.
Cigars, cigarettes, chewing and smoking tobacco. Bayuk Bros. Incorporated. No. 153,659; Mar. 28.
Cigars, cigarettes, chewing tobacco, etc. Demmi Cigar Co. No. 154,916; May 16.
Cigars, cigarettes, cigarillos, and tobacco. J. Garbáty-Rosenthal Zigarettenfabrik J. Garbáty. No. 157,500; Aug. 8.
Cigars, cigarettes, etc. J. Garbáty-Rosenthal Zigarettenfabrik J. Garbáty, Berlin-Pankow. Nos. 157,378-80; Aug. 1.
Cigars, cigarettes, etc. J. Garbáty-Rosenthal Zigarettenfabrik J. Garbáty, Berlin-Pankow. Nos. 157,502-3; Aug. 8.
Cigars, cigarettes, smoking and chewing tobacco. Mi Favorita Cigar Company. No. 158,495; Sept. 5.
Cigars, cigarettes, smoking, chewing, and plug tobacco. Weideman Company. No. 156,778; July 11.
Cigars, cigarettes, smoking, chewing, and snuff tobacco, cut tobacco. J. Garbáty-Rosenthal Zigarettenfabrik J. Garbáty, Berlin-Pankow. No. 157,499; Aug. 8.
Cigars, cigarettes, snuff, etc. Wigwam Retail Stores Company. No. 157,609; Aug. 8.
Cigars, cigarettes, tobacco. Bayuk Bros. Nos. 150,728-32; Jan. 10.
Cigars, cigarettes, tobacco. E. S. Cochran. No. 162,706; Dec. 26.
Cigars, cigarettes, tobacco. Falk Tobacco Company. No. 152,763; Mar. 7.
Cigars, cigarettes, tobacco. Lincoln and Ulmer. No. 154,083; Apr. 4.
Cigars, cigarettes, tobacco. Samos Cigarette & Tobacco Co. No. 155,072; May 16.
Cigars, cigarettes, tobacco. Tuckett Tobacco Company. No. 158,366; Aug. 29.
Cigars, Little. I. Aaron. No. 157,444; Aug. 8.
Cigars, little cigars, cigarettes, and smoking tobacco. Alfred Dunhill of London, Inc. Nos. 160,176-7; Oct. 17.
Cigars, little cigars, cigarettes, and smoking tobacco. Alfred Dunhill of London, Inc. No. 161,935; Nov. 28.
Cigars, Manufactured. H. Morrier. Nos. 158,503-4; Sept. 5.
Cigars, smoking tobacco, and cigarettes. Thompson & Company. No. 156,819; July 11.
Cigars, smoking tobacco, and cigarettes. Tuckett Tobacco Company. No. 161,650; Nov. 14.
Cigarette and cigar cases and snuff boxes. Cartier, Inc. No. 152,703; Mar. 7.
Cigarette and cigar holders. Hadon Products Corp. No. 155,437; May 30.
Cigarette and tobacco packages or bags, Closures for. Levlin Mfg. Co. No. 162,810; Dec. 26.
Cigarette cases. Inlaid Co. No. 152,834; Mar. 7.

Alphabetical list of trade-marks—Continued.

- Cigarette cases. Wightman & Hough Co. No. 155,126; May 16.
- Cigarette papers. Max Spiegel & Sons Co. No. 153,535; Mar. 21.
- Cigarette snuffers, ash trays, match stands, etc. S'Nuff Smoke Sales Co. No. 155,529; May 30.
- Cigarettes. Axton-Fisher Tobacco Company. No. 150,718; Jan. 10.
- Cigarettes. Balkan Sobranie Cigarettes Limited. No. 150,721; Jan. 10.
- Cigarettes. E. R. Ballis. No. 160,338; Oct. 17.
- Cigarettes. Bloch Bros. Tobacco Co. No. 152,353; Feb. 28.
- Cigarettes. Bloch Bros. Tobacco Co. Nos. 153,121-2; Mar. 14.
- Cigarettes. E. A. Condax & Company. No. 150,778; Jan. 10.
- Cigarettes. Falk Tobacco Company. Nos. 160,470-1; Oct. 24.
- Cigarettes. J. Garbáty-Rosenthal, Zigarettenfabrik J. Garbáty, Berlin-Pankow. No. 157,501; Aug. 8.
- Cigarettes. General Tobacco Company. No. 155,425; May 30.
- Cigarettes. C. Jones. No. 152,839; Mar. 7.
- Cigarettes. M. Knoch. No. 154,079; Apr. 4.
- Cigarettes. Lady Nic Inc. No. 158,000; Aug. 22.
- Cigarettes. S. M. Marcus. No. 154,094; Apr. 4.
- Cigarettes. M. Mavromatas. No. 155,014; May 16.
- Cigarettes. L. Mosquera. No. 160,246; Oct. 17.
- Cigarettes. B. Muratti Sons and Company. No. 156,016; June 13.
- Cigarettes. G. Pappanicolau. No. 157,556; Aug. 8.
- Cigarettes. Christian Peper Tobacco Co. No. 152,720; Mar. 7.
- Cigarettes. F. W. Pinkus. No. 153,823; Mar. 28.
- Cigarettes. F. W. Pinkus. No. 160,633; Oct. 24.
- Cigarettes. Pinkus Brothers. No. 150,946; Jan. 10.
- Cigarettes. H. L. Savory. No. 156,918; July 18.
- Cigarettes. H. Theocaridis. No. 158,114; Aug. 22.
- Cigarettes. N. F. Turner. No. 158,123; Aug. 22.
- Cigarettes. J. Wix. No. 160,748; Oct. 24.
- Cigarettes and cigarette tobacco. J. M. Berberian. No. 153,118; Mar. 14.
- Cigarettes and cigarette tobacco. J. M. Berberian. No. 154,880; May 16.
- Cigarettes and smoking tobacco. Bailey Brothers Inc. No. 155,602; Sept. 12.
- Cigarettes and smoking tobacco. Robert Sinclair Tobacco Company. No. 150,969; Jan. 10.
- Cigarettes, cigars, tobacco. "Turmac" Turkish Macedonian Tobacco Company. No. 153,335; Mar. 14.
- Cigarettes, Egyptian. S. Benaderet. No. 160,390; Oct. 24.
- Cinematograph projection apparatus. H. G. Pouting. No. 154,367; Apr. 11.
- Cinematographic and photographic apparatus and parts. Certain. Pathé-Cinéma Anciens Etablissements Pathé Frères. Nos. 162,573-4; Dec. 19.
- Circuit-controlling and pressure-controlling devices and mercury tubes. Certain. Federal Gauge Company. No. 156,669; July 11.
- Circulars and periodical pamphlets. Fort Wayne Engineering & Manufacturing Co. No. 154,938; May 16.
- Citrate of magnesia. Sterling Magnesia Company. No. 161,310; Nov. 7.
- Clamps, Hand and screw. Adjustable Clamp Company. No. 160,079; Oct. 10.
- Clamps, Rope. American Hoist & Derrick Co. No. 156,609; July 11.
- Clay for making fire brick, stove linings, etc., Preparation of. Pottstown Fire Brick Company. No. 153,614; Mar. 21.
- Clay Modeling. Binney & Smith Company. No. 160,393; Oct. 24.
- Clay product. Aluminum Flake Company; No. 153,095; Mar. 14.
- Cleaner and polisher. A. M. Kallberg. No. 155,462; May 30.
- Cleaner for automobile windshields, windows, and the like, Liquid. Spring Mfg. Co. No. 155,840; June 6.
- Cleaner for ceramic materials, Chemical. Sinclair Mfg. Company. No. 157,388; Aug. 1.
- Cleaner for white canvas shoes. A. E. Perkins Corporation. No. 152,943; Mar. 7.
- Cleaners and parts thereof, Electric vacuum. Electric Vacuum Cleaner Company. No. 155,682; June 6.
- Cleaners, Chimney. T. G. Kohl Company. No. 157,998; Aug. 22.
- Cleaners, Containers for the dust, etc., taken from vacuum. M. M. Mummert. No. 151,347; Jan. 31.
- Cleaners, Electric suction. United Electric Company. No. 150,697; Jan. 3.
- Cleaners for metal prior to plating, japanning, galvanizing, and rough cleaning between machine operations. S. D. Benoliel. No. 155,619; June 6.
- Cleaners, Jewelers' metal and electroplaters'. Chemical Sales Company. No. 151,710; Feb. 14.
- Cleaners, polishes, and dressings, Certain. J. C. Alzamora. No. 161,008; Oct. 31.
- Cleaning and polishing composition for removing and preventing fog on glass. H. M. Leh. No. 154,831; May 9.
- Cleaning and polishing compound for certain named uses. M. A. Helm. No. 152,818; Mar. 7.
- Cleaning and polishing material, Leather. H. H. Graham. No. 162,157; Dec. 5.
- Cleaning and polishing materials for jewelry, metal ware, etc. Ovington Bros. Company. No. 157,733; Aug. 15.
- Cleaning and polishing powder. A. C. Horn Co. No. 155,718; June 6.
- Cleaning and polishing preparations used by dentists, Certain. L. D. Caulk Company. No. 155,636; June 6.
- Cleaning and polishing solution for floors, furniture, etc. J. W. Geraty. No. 154,946; May 16.
- Cleaning and renovating compounds. Kio Company. No. 162,528; Dec. 19.
- Cleaning closet bowls, Powder for. United Stores Supply Company. No. 159,565; Sept. 26.
- Cleaning composition. J. J. O'Leary. No. 157,827; Aug. 15.
- Cleaning compound. Klee-Nup Mfg. Co. No. 155,735; June 6.
- Cleaning compound, Certain. Mission Bead Company. No. 159,443; Sept. 26.
- Cleaning compound for glass, piano keys, ivory, etc. E. Earl. No. 162,959; Dec. 26.
- Cleaning compound for the hands. F. C. Dunlap. No. 155,673; June 6.
- Cleaning compound for wood, metal, etc., Liquid. Sanitation and Supply Company. No. 150,555; Jan. 3.
- Cleaning compound, Liquid. F. Valcour. No. 159,168; Sept. 19.
- Cleaning drainpipes, Powder for. H. J. McElroy. No. 153,236; Mar. 14.
- Cleaning floors, Liquid for. A. Lucati. No. 151,856; Feb. 14.
- Cleaning fluid. Presto Chemical Co. No. 153,284; Mar. 14.
- Cleaning fluid and dry cleaner for cloth and leather. N. Neofitos. No. 150,913; Jan. 10.
- Cleaning hands, Compounds for. G. C. Lee. No. 158,737; Sept. 12.
- Cleaning machines, Vacuum. Hochschild, Kohn and Co. No. 157,264; July 25.
- Cleaning metal ware, clothing, and gloves. M-P-Co. No. 155,769; June 6.
- Cleaning powders, pastes, and liquids for window shades, etc. Paris Manufacturing Company. No. 155,503; May 30.
- Cleaning preparation. Saniklene Chemical Co. No. 152,982; Mar. 7.
- Cleaning preparation for cleaning fabric and like goods, Dry-. W. M. Ladd. No. 162,289; Dec. 12.
- Cleaning preparation having water-softening properties. Noyes Bros. & Cutler, Incorporated. No. 151,890; Feb. 14.
- Cleaning preparations. Shi-Nup Products Company. No. 155,832; June 6.
- Cleaning preparations, Certain. N. T. Pool. No. 155,799; June 6.
- Cleaning preparations, Certain. John Sexton and Company. No. 155,828; June 6.
- Cleaning, shining, and polishing preparation for shoes and leather articles. E. L. Eggers. No. 159,346; Sept. 26.
- Cleaning solution for kid gloves, etc. H. Evans. No. 150,352; Jan. 3.
- Cleanser and polish for pianos, automobiles, etc., Liquid. G. F. Ziegler. No. 159,161; Sept. 19.
- Cleanser for carpets, rugs, etc., Paste. Klenzall Co. No. 158,721; Sept. 12.
- Cleanser for cleaning clothes, silverware, dishes, cooking utensils, woodwork, etc. Hays-Raden Company. No. 159,370; Sept. 26.
- Cleanser for industrial, household, and all general cleaning. Trinity Chemical Corporation. No. 159,132; Sept. 19.
- Cleanser in soap form. Hawkeye Cleanser Co. No. 155,442; May 30.
- Cleaners, Stove. Walmar Laboratory. No. 155,556; May 30.
- Cleaners, toilet and laundry soaps, and metal polish, Certain. Jennings-Sherry Company. No. 157,693; Aug. 15.
- Cleansing composition for shoes, gloves, etc. Bunny Products. No. 153,131; Mar. 14.
- Cleansing fluid for silk, wool, etc. H. A. Cassebeer, Inc. No. 155,635; June 6.
- Cleansing fluids for fabrics. Kendall Products Corporation. No. 155,464; May 30.
- Cleansing, sterilizing, and disinfecting compound. Eagle Chemical Company. No. 162,240; Dec. 12.
- Clippers, Hair. Baker Cutlery & Hardware Company. No. 153,123; Mar. 14.
- Clocks. Cincinnati Clock & Instrument Co. No. 162,213; Dec. 12.
- Clocks. William L. Gilbert Clock Company. No. 158,445; Sept. 5.
- Clocks. Irokese Trading Corporation. No. 151,513; Feb. 7.
- Clocks. Keyless Auto Clock Company. No. 156,596; July 4.
- Clocks. James McCreery & Company. No. 158,486; Sept. 5.
- Clocks, Alarm. F. W. Jansen Clock Company. No. 161,887; Nov. 21.

- Clocks, Alarm. Marshall Field & Company. No. 155,253; May 23.
- Clocks, Alarm. Marshall Field & Company. No. 158,494; Sept. 5.
- Clocks, alarm watches, watches, Alarm. Kienzle Uhrenfabriken Kommanditgesellschaft. No. 156,696; July 11.
- Clocks and clocks and watches of all kinds and parts thereof, Electric. Scintilla. No. 151,596; Feb. 7.
- Clocks and parts thereof. Gebrüder Junghans, A. G. No. 152,784; Mar. 7.
- Clocks and timepieces generally. H. Loeb. Nos. 155,473-4; May 30.
- Clocks and watches. Keith-Landis Corporation. No. 158,471; Sept. 5.
- Clocks for furnace-regulation systems Tidey Heat Specialties Co. No. 161,720; Nov. 14.
- Clocks, watches, and component parts thereof. Western Clock Co. No. 158,567; Sept. 5.
- Clocks, watches, and parts thereof. Gebrüder Junghans, A. G. Nos. 152,782-3; Mar. 7.
- Closet seats and covers, Water-. J. L. Mott Company. No. 158,267; Aug. 29.
- Cloth and fabric holding and clamping device. B. Rubinstein. No. 162,453; Dec. 12.
- Cloth and Terry-bath-robe piece goods, cloth towels, etc., Terry-Hohlfeld Manufacturing Company. No. 156,583; July 4.
- Cloth, Artificial-silk. Turner & Stroock, Inc. No. 159,772; Oct. 3.
- Cloth for polishing metals, hard rubber, and glass, Chemically-treated. C. F. Jameson. No. 155,728; June 6.
- Cloth in the piece, Camel's hair. Worumbo Manufacturing Company. No. 152,555; Feb. 28.
- Cloth in the piece of wool, cotton, or mixtures of same. Howard and Jones, Inc. No. 157,104; July 25.
- Cloth made of camel's hair. S. Stroock & Co. Nos. 162,992-3; Dec. 26.
- Cloth made of cotton, linen, silk, or wool. Philipsborn's, Inc. No. 161,589; Nov. 14.
- Cloths and stuffs of wool, worsted, or hair. Martin Sons and Company. No. 158,014; Aug. 22.
- Cloths and stuffs, Woven, knitted, and other. Derwent Mills Limited. No. 157,665; Aug. 15.
- Cloths, Dusting and cleaning. S. Birkenstein & Sons, Incorporated. No. 156,102; June 13.
- Cloths for cleaning silver and gold, Specially-treated. Mosell Manufacturing Company. No. 162,559; Dec. 19.
- Cloths of wool. William Hollins & Company. No. 157,102; July 25.
- Clothes bags, Mothproof. T. Manahan. No. 154,322; Apr. 11.
- Clothes for small boys. Charles William Stores, Inc. No. 152,367; Feb. 28.
- Clotheslines. Tribble Cordage Mills Inc. No. 151,366; Jan. 31.
- Clothespins. E. H. Miller. No. 161,563; Nov. 14.
- Clothespins. Novelty Products Company. No. 152,917; Mar. 7.
- Clothes-washing liquid. A. Lucati. No. 151,857; Feb. 14.
- Clothes-washing machine. R. S. Burlingame. No. 156,639; July 11.
- Clothes, Work. Higginbotham-Bailey-Logan Company. No. 157,097; July 25.
- Clothing. Epstein Underwear Co. No. 162,502; Dec. 19.
- Clothing. I. Fain. No. 159,180; Sept. 19.
- Clothing. Franklin Simon & Co. No. 154,696; Apr. 18.
- Clothing. Gold Mark Knitting Co. No. 161,483; Nov. 14.
- Clothing. William Hollins & Company. No. 150,851; Jan. 10.
- Clothing. W. A. Kimball. No. 150,433; Jan. 3.
- Clothing. Lamm Brothers. Nos. 151,176-9; Jan. 24.
- Clothing. Marcus Breier's Sons. No. 161,425; Nov. 14.
- Clothing. National Cloak & Suit Co. No. 155,023; May 16.
- Clothing. J. Schoeneman Incorporated. No. 156,922; July 18.
- Clothing. Standard Knitting Mills. No. 161,380; Nov. 7.
- Clothing. Stein Bros. Mfg. Co. No. 155,091; May 16.
- Clothing and protective apparel, Certain articles of. J. Weimann. No. 157,242; July 25.
- Clothing and underwear, Women's. Weisman Bros. & Epstein. No. 161,338; Nov. 7.
- Clothing, Articles of. Lieberman Brothers. No. 154,199; Apr. 4.
- Clothing, Certain. A. C. Fischer. No. 161,135; Nov. 7.
- Clothing, Certain. Guthrie & Co. No. 161,154; Nov. 7.
- Clothing, Certain. Wentworth Clothing Company. No. 160,721; Oct. 24.
- Clothing, Certain articles of. Ambco, Inc. No. 157,445; Aug. 8.
- Clothing, Certain articles of. American Lady Corset Co. No. 156,092; June 13.
- Clothing, Certain articles of. American Wholesale Corporation (Baltimore Bargain House). No. 155,920; June 13.
- Clothing, Certain articles of. Bennett & Wedeen Inc. No. 161,058; Nov. 7.
- Clothing, Certain articles of. Best & Co. No. 161,062; Nov. 7.
- Clothing, Certain articles of. Billstein-Feierman Co. No. 162,032; Dec. 5.
- Clothing, Certain articles of. Broadway Bargain House. No. 151,292; Jan. 24.
- Clothing, Certain articles of. Brown Durrell Co. No. 154,888; May 16.
- Clothing, Certain articles of. E. Byrnes. No. 156,849; July 18.
- Clothing, Certain articles of. Caravel Company. No. 154,896; May 16.
- Clothing, Certain articles of. J. P. Carey & Co. No. 157,021; July 25.
- Clothing, Certain articles of. William Carter Company. No. 153,906; Mar. 28.
- Clothing, Certain articles of. Cohen, Goldman & Co. No. 155,644; June 6.
- Clothing, Certain articles of. Corset Artistique, Inc. No. 157,807; Aug. 15.
- Clothing, Certain articles of. A. De Prima Co. No. 151,736; Feb. 14.
- Clothing, Certain articles of. Derwent Mills, Limited. No. 157,046; July 25.
- Clothing, Certain articles of. T. H. Downing & Co. Ltd. No. 154,532; Apr. 18.
- Clothing, Certain articles of. Dunlap & Co. No. 151,121; Jan. 24.
- Clothing, Certain articles of. Ely & Walker Dry Goods Company. No. 150,801; Jan. 10.
- Clothing, Certain articles of. Finger Cahn Co. No. 158,952; Sept. 19.
- Clothing, Certain articles of. Franklin Simon & Co. No. 156,249; June 20.
- Clothing, Certain articles of. Franklin Simon & Co. No. 158,957; Sept. 19.
- Clothing, Certain articles of. Franklin Simon & Co. No. 159,103; Sept. 19.
- Clothing, Certain articles of. Gordon & Ferguson. No. 157,509; Aug. 8.
- Clothing, Certain articles of. Governform Corporation. No. 160,198; Oct. 17.
- Clothing, Certain articles of. O. F. Grab & Co. No. 156,874; July 18.
- Clothing, Certain articles of. Hicks-Hayward Company. No. 156,295; June 20.
- Clothing, Certain articles of. William Hollins & Company. No. 155,717; June 6.
- Clothing, Certain articles of. Jack & Jill Knitting Mills, Inc. No. 155,459; May 30.
- Clothing, Certain articles of. James Lees and Sons Company. No. 154,604; Apr. 18.
- Clothing, Certain articles of. James Lees and Sons Company. No. 159,016; Sept. 19.
- Clothing, Certain articles of. M. Levin. No. 157,127; July 25.
- Clothing, Certain articles of. Little Duchess Dress Co. Nos. 150,451-2; Jan. 3.
- Clothing, Certain articles of. Louvre Knitting Mills. No. 154,615; Apr. 18.
- Clothing, Certain articles of. Louisville Furnishing Goods Co. No. 160,784; Oct. 24.
- Clothing, Certain articles of. Markowitz & Bloom. No. 154,624; Apr. 18.
- Clothing, Certain articles of. Marx & Haas Clothing Company. No. 154,626; Apr. 18.
- Clothing, Certain articles of. James McCreery & Company. No. 154,617; Apr. 18.
- Clothing, Certain articles of. McDonald Bros. Co. No. 153,485; Mar. 21.
- Clothing, Certain articles of. J. A. Migel, Inc. Nos. 158,024-6; Aug. 22.
- Clothing, Certain articles of. J. A. Migel Inc. No. 159,037; Sept. 19.
- Clothing, Certain articles of. J. A. Migel, Inc. Nos. 160,239-40; Oct. 17.
- Clothing, Certain articles of. Charles Munter. No. 157,157; July 25.
- Clothing, Certain articles of. A. L. Myerson. No. 150,488; Jan. 3.
- Clothing, Certain articles of. Ottenheimer, Goldman Co. No. 156,901; July 18.
- Clothing, Certain articles of. Rauh Bros. & Co. No. 154,666; Apr. 18.
- Clothing, Certain articles of. J. T. Rose. No. 152,262; Feb. 21.
- Clothing, Certain articles of. Safchik & Co. No. 150,553; Jan. 3.
- Clothing, Certain articles of. J. F. Schweizer-Caillaux. No. 155,823; June 6.
- Clothing, Certain articles of. Sonny Blouse Co. No. 159,106; Sept. 19.
- Clothing, Certain articles of. Thomas Dalby Company. No. 157,919; Aug. 22.
- Clothing, Certain articles of. Thornton & Mawby Limited. No. 150,623; Jan. 3.
- Clothing, Certain articles of. United Turkey Red Company. No. 156,454; June 20.
- Clothing, Certain articles of. Utica-Duxbak Corporation. No. 159,233; Sept. 19.
- Clothing, Certain articles of. Walker Stetson Company. No. 151,995; Feb. 14.
- Clothing, Certain articles of. John Wanamaker, New York. No. 151,998; Feb. 14.
- Clothing, Certain articles of. Wasserman & Goldsmith. No. 160,325; Oct. 17.
- Clothing, Certain articles of. J. Weimann. No. 162,177; Dec. 5.
- Clothing, Certain articles of. Wentworth Clothing Company. No. 157,604; Aug. 8.

Alphabetical list of trade-marks—Continued.

- Clothing, Certain articles of. Wilson Brothers. No. 150,650; Jan. 3.
- Clothing, Certain articles of. Winship, Boit & Co. No. 156,087; June 13.
- Clothing, Certain articles of. Worth, Inc. No. 156,477; June 20.
- Clothing, Certain articles of. Worth, Inc. No. 158,871; Sept. 12.
- Clothing, Children's. Ralph S. Cary & Co. No. 154,510; Apr. 18.
- Clothing, etc., Ladies' ready-to-wear. W. H. Rogers Co. No. 159,076; Sept. 19.
- Clothing for children. H. Fels. No. 160,476; Oct. 24.
- Clothing for girls, Outer. Little Goddess Dress Co. No. 158,733; Sept. 12.
- Clothing for men and boys, Outer. A. B. Frank Company. No. 160,187; Oct. 17.
- Clothing for men, young men, and boys. H. B. Rosenthal-Ettlinger Co. No. 156,047; June 13.
- Clothing for outer wear, Men's. R. B. Clothing Company. No. 157,568; Aug. 8.
- Clothing, hats, caps, and flannel shirts. J. J. & W. Wilson Limited. No. 21,099; renewed May 10, 1922.
- Clothing, Infants' and children's. Taylor Bramley Company. No. 159,232; Sept. 19.
- Clothing, Men's and boys'. Franklin Simon & Co. No. 150,570; Jan. 3.
- Clothing, Men's and boys'. Rice-Stix Dry Goods Company, Inc. No. 161,598; Nov. 14.
- Clothing, Men's and boys' outer. Quinto, Cohen & Levin. No. 154,664; Apr. 18.
- Clothing, Men's and boys' outer. Strawbridge & Clothier. No. 154,712; Apr. 18.
- Clothing, Men's and boys' ready-to-wear. J. C. Penney Company. Nos. 161,255-7; Nov. 7.
- Clothing, Men's and young men's. M. Frank Sons & Company. No. 158,677; Sept. 12.
- Clothing, Men's and young men's. Individual Tailoring Company. No. 160,215; Oct. 17.
- Clothing, Men's and young men's. Style Center Tailoring Company. No. 161,312; Nov. 7.
- Clothing, Men's and young men's. Herman Wile & Co. No. 162,083; Dec. 5.
- Clothing, Men's, youths', and boys' outer. J. Eisner. No. 162,499; Dec. 19.
- Clothing, Waterproof. Brooklyn Shield Company. No. 161,685; Nov. 14.
- Clothing, Women's, misses', children's, and infants'. Little Duchess Dress Co. No. 159,020; Sept. 19.
- Clutches. Link-Belt Co. No. 157,623; Aug. 8.
- Coal. Apex Coal Company. No. 160,128; Oct. 17.
- Coal. Beatty Coal Company. No. 155,927; June 13.
- Coal. Beatty Coal Co. No. 159,166; Sept. 19.
- Coal. R. H. Bell. No. 156,179; June 20.
- Coal. N. B. Braly. Nos. 162,690-1; Dec. 26.
- Coal. T. O. Busbee. No. 155,939; June 13.
- Coal. Cherokee Fuel Company. No. 151,097; Jan. 24.
- Coal. Corona Coal Company. No. 154,782; May 9.
- Coal. I. O. Drewry Contracting Company. No. 160,174; Oct. 17.
- Coal. T. C. Irwin. No. 155,985; June 13.
- Coal. Jefferson Coal Company. No. 157,422; Aug. 1.
- Coal. Jewett, Bigelow & Brooks. No. 159,915; Oct. 10.
- Coal. Leckie Coal Company. Nos. 152,856-7; Mar. 7.
- Coal. Mitchell & Dillon Coal Company. No. 160,583; Oct. 24.
- Coal. Nokomis Coal Company. No. 159,970; Oct. 10.
- Coal. Palisade Coal & Supply Co. No. 162,648; Dec. 19.
- Coal. Reeves Coal and Dock Co. No. 160,641; Oct. 24.
- Coal. Reliance Coal and Coke Co. No. 153,291; Mar. 14.
- Coal. C. L. Ryley Coal Company. No. 151,223; Jan. 24.
- Coal. Southern Coal & Coke Company. No. 151,247; Jan. 24.
- Coal. Templeton Coal Company. No. 151,254; Jan. 24.
- Coal. Victor-American Fuel. Nos. 152,322-7; Feb. 21.
- Coal. J. D. Walker Coal Company. No. 160,038; Oct. 10.
- Coal. Wisconsin Steel Company. No. 155,872; June 6.
- Coal and coke. Thermot Coal & Coke Co. No. 157,218; July 25.
- Coal and cordwood. H. L. Goodwin. No. 151,139; Jan. 24.
- Coal and firewood. W. H. Stryker. No. 160,688; Oct. 24.
- Coal, Bituminous. Cosgrove and Company. No. 153,923; Mar. 28.
- Coal, Bituminous. Grand Junction Mining & Fuel Company. No. 162,766; Dec. 26.
- Coal, Blacksmith. Mill and Mine Supply Co. No. 151,193; Jan. 24.
- Coal, Composition for the treatment of fuel. W. A. Robeson. No. 159,075; Sept. 19.
- Coals. Huerfano Agency Company. No. 162,778; Dec. 26.
- Coals, Anthracite and bituminous. Hedstrom-Schenck Coal Co. No. 159,898; Oct. 10.
- Coasters and play wagons. H. C. White Company. No. 153,354; Mar. 14.
- Coasters for children. H. C. White Company. No. 153,059; Mar. 7.
- Coats and bath robes, Hooded. A. Fisch. No. 150,816; Jan. 10.
- Coats and pants, hunting coats, and white duck packers' frocks, Fireman's duck night. St. Joseph Tent & Awning Co. No. 158,106; Aug. 22.
- Coats and suits. E. J. Wile & Co. No. 160,333; Oct. 17.
- Coats and suits, Boys'. James McCreery & Company. No. 160,789; Oct. 24.
- Coats and suits, Ladies'. Linder Bros. No. 160,230; Oct. 17.
- Coats and suits, Ladies' and misses'. G. B. G. Mfg. Co. No. 161,143; Nov. 7.
- Coats and suits, Ladies' and misses'. Harry Greenberg Co. No. 156,282; June 20.
- Coats and suits, women's dresses, men's trousers and work shirts, Ladies', men's, and boys'. Apparel Products Co. No. 158,884; Sept. 19.
- Coats, aprons, frocks, and gowns, and men's vests, pants, etc. National Coat & Apron Supply Co. No. 162,971; Dec. 26.
- Coats, caps, hats, gloves, hosiery, etc. A. Cunningham, Limited. No. 157,037; July 25.
- Coats, cloaks, suits, etc., Women's children's, and infants'. Salt's Textile Manufacturing Company. No. 161,283; Nov. 7.
- Coats, cloaks, wraps, capes, etc., Women's, children's, and infants'. Salt's Textile Manufacturing Company. No. 160,284; Oct. 17.
- Coats, cloaks, wraps, capes, suits, costumes, etc., Women's, children's, and infants'. Amertex Mills, Inc. No. 161,397; Nov. 14.
- Coats, cloaks, wraps, capes, suits, costumes, etc., Women's, children's, and infants'. Salt's Textile Manufacturing Company. No. 161,612; Nov. 14.
- Coats for ladies and misses, Plush. John & James Dobson, Inc. Nos. 155,988-90; June 13.
- Coats, Fur. Morris Levy & Brother. No. 154,763; Apr. 25.
- Coats, Gunning. Star Sporting Goods Co. No. 158,545; Sept. 5.
- Coats, Hunting and work. American Wholesale Corporation. No. 150,664; Jan. 3.
- Coats, Infants'. M. Kuster. No. 158,723; Sept. 12.
- Coats, jackets, vests, waistcoats, trousers, etc. David S. Goldstein & Co. No. 157,963; Aug. 22.
- Coats, overcoats, trousers, and knickerbockers. B. Ark. No. 161,046; Nov. 7.
- Coats, skirts, dresses, suits, hats, and scarfs, boys' suits, etc., Misses' and women's. Jordan Marsh Company. No. 162,525; Dec. 19.
- Coats, suits, and dresses. Cohn-Goodman Company. No. 151,713; Feb. 14.
- Coats, suits, and dresses, Ladies'. Charlop Bros. & Co. No. 162,005; Nov. 28.
- Coats, suits, aprons, and dresses, bath robes, etc., Ladies'. Western Garment Mfg. Company. No. 160,328; Oct. 17.
- Coats, suits, underwear, hosiery, neckties, shirts, etc. Guthrie & Co. No. 161,153; Nov. 7.
- Coats, sweaters, slip-ons, and suits, Children's. President Knitting Mills. Inc. No. 161,593; Nov. 14.
- Coats, trousers, vests, overcoats. John Bond Tailoring Co. No. 154,587; Apr. 18.
- Coats, vests, and pants, Hunting and riding. Alward Anderson-Southard Co. No. 157,633; Aug. 15.
- Coats, vests, and pants, Men's. Rosenberg Bros. & Co. No. 157,575; Aug. 8.
- Coats, vests, and pants, Men's. Rosenberg Bros & Co. No. 160,277; Oct. 17.
- Coats, vests, etc., men's hats, women's suits, skirts, and waists, Men's, youths' and boys'. Klotz Shoppe. No. 157,814; Aug. 15.
- Coats, vests, pants, and overcoats, Young men's and youths'. J. Blach & Sons. Nos. 157,867-8; Aug. 22.
- Coats, vests, trousers, and overcoats. Coombes & Levi-son. No. 157,031; July 25.
- Coats, vests, trousers, and overcoats. A. Fineman. No. 161,361; Nov. 7.
- Coats, vests, trousers, and overcoats. Menter Co. No. 160,237; Oct. 17.
- Coats, vests, trousers, skirts, hats, and caps, Leather. Jens Weimann. No. 157,241; July 25.
- Coats, waistcoats, trousers, and overcoats. David Adler & Sons Co. No. 156,976; July 25.
- Coats, waistcoats, trousers, overcoats. David Adler & Sons Company. No. 154,467; Apr. 18.
- Cocks and faucets. Central Brass Manufacturing Co. No. 155,144; May 16.
- Cocks, Ball. T. W. Ryan. No. 155,353; May 23.
- Cocks, ball cocks, Mansfield ball cocks. Acheson Manufacturing Company. No. 161,734; Nov. 21.
- Cocks, Metal. Verband Schweiz Armaturenfabriken, Bern. No. 156,455; June 20.
- Cocoa. Fortune Products Company. No. 160,864; Oct. 31.
- Cocoa. F. Korff & Co. (co-partnership). No. 154,602; Apr. 18.
- Cocoa. C. J. Van Houten & Zoon. No. 161,653; Nov. 14.
- Cocoa butter. Daarnhouwer & Co. No. 156,857; July 18.
- Coconut butter. American Cocanot Butter Company. No. 154,472; Apr. 18.
- Coconut butter. L. Demartini Supply Co. No. 159,327; Sept. 26.
- Cod fillets, preserved flaked fish, fish paste, etc., Smoked. Newfoundland Fish Products, Limited. No. 162,328; Dec. 12.
- Cod-liver oil. O. Wasboe. No. 153,900; Mar. 28.
- Coffee. Abraham & Straus, Inc. No. 160,354; Oct. 24.
- Coffee. American Universal Coffee Company. Nos. 151,661-2; Feb. 14.
- Coffee. American Universal Coffee Company. No. 153,571; Mar. 21.

Alphabetical list of trade-marks—Continued.

- Coffee. J. Aron & Company. No. 150,226; Jan. 3.
 Coffee. Betterton-Rupert Coffee Co. No. 155,879; June 6.
 Coffee. Brazilian Coffee Houses, Inc. No. 157,649; Aug. 15.
 Coffee. Brewster, Gordon & Co. No. 154,501; Apr. 18.
 Coffee. Brewster, Gordon & Co. No. 154,778; May 9.
 Coffee. W. H. Bruning. No. 150,268; Jan. 3.
 Coffee. Central Coffee Co. No. 156,851; July 18.
 Coffee. Columbia Coffee Co. No. 160,847; Oct. 31.
 Coffee. C. I. Cook. No. 154,519; Apr. 18.
 Coffee. C. I. Cook. No. 154,781; May 9.
 Coffee. C. I. Cook. No. 155,315; Apr. 23.
 Coffee. G. G. Cornwell & Son. No. 157,033; July 25.
 Coffee. A. Curtze. No. 151,728; Feb. 14.
 Coffee. Dayton Spice Mills Co. No. 154,751; Apr. 18.
 Coffee. P. de Lima Co. No. 160,799; Oct. 24.
 Coffee. Direct Coffee Mills. No. 151,738; Feb. 14.
 Coffee. G. B. Farrington Company. No. 156,513; June 27.
 Coffee. Fasseas & Onofrio. No. 151,755; Feb. 14.
 Coffee. B. Fischer & Co. No. 154,545; Apr. 18.
 Coffee. Franklin Coffee Co. No. 157,672; Aug. 15.
 Coffee. L. H. Frohman & Company. No. 157,809; Aug. 15.
 Coffee. General Coffee and Tea Company. No. 152,405; Feb. 28.
 Coffee. Granger & Co. No. 151,783; Feb. 14.
 Coffee. Martin L. Hall Company. No. 151,791; Feb. 14.
 Coffee. Hewlett Bros. Company. No. 159,376; Sept. 26.
 Coffee. Hoffmann-Hayman Coffee Co. No. 160,778; Oct. 24.
 Coffee. Jewel Tea Company. No. 156,692; July 11.
 Coffee. Johnson-Layne Coffee Company. No. 156,884; July 18.
 Coffee. Junior Coffee Co. No. 162,526; Dec. 19.
 Coffee. Klatte Coffee Company. No. 158,720; Sept. 12.
 Coffee. H. T. Lange Co. No. 160,557; Oct. 24.
 Coffee. McInnes-Walker Co. No. 160,568; Oct. 24.
 Coffee. W. J. Menke. No. 154,627; Apr. 18.
 Coffee. E. B. Millar & Company. No. 153,800; Mar. 28.
 Coffee. Nash Coffee Company. No. 156,895; July 18.
 Coffee. Nash Coffee Company. No. 159,451; Sept. 26.
 Coffee. National Paper Can Company. No. 156,364; June 20.
 Coffee. New Orleans Coffee Company. No. 160,604; Oct. 24.
 Coffee. A. L. Parks Tea Company. No. 153,612; Mar. 21.
 Coffee. A. L. Parks Tea Company. No. 154,838; May 9.
 Coffee. Ridenour-Baker Grocery Company. No. 153,616; Mar. 21.
 Coffee. Ridenour-Baker Grocery Company. No. 157,188; July 25.
 Coffee. Scherer & Pix. No. 154,806; May 9.
 Coffee. E. F. Schnuck. No. 154,451; Apr. 11.
 Coffee. Schon, Stevenson and Company. No. 153,301; Mar. 14.
 Coffee. Simon Levi Company. No. 152,505; Feb. 28.
 Coffee. Stahl, Eidman & Company. No. 162,597; Dec. 19.
 Coffee. St. Louis Coffee & Spice Mills. No. 156,764; July 11.
 Coffee. Adolph Stoecker & Son. No. 156,554; June 27.
 Coffee. Tatin & Shaphio. No. 154,713; Apr. 18.
 Coffee. Townsend Wholesale Grocery Company. No. 153,333; Mar. 14.
 Coffee. Vinson Coffee Co. No. 151,992; Feb. 14.
 Coffee. Wason Bros. No. 161,993; Nov. 28.
 Coffee. Weidman, Ward & Co. No. 162,613; Dec. 19.
 Coffee. Weppner-Weil Company. No. 156,780; July 11.
 Coffee. Young & Griffin Coffee Co. No. 152,012; Feb. 14.
 Coffee. a blend of chocolate and cocoa, macaroni, etc. M. Blumlein. No. 154,497; Apr. 18.
 Coffee and tea. J. H. Bailey. No. 154,481; Apr. 18.
 Coffee and tea. Hoffman-Hayman Coffee Co. No. 157,101; July 25.
 Coffee and tea. J. C. Hollister. No. 154,581; Apr. 18.
 Coffee and tea. McInnes-Walker Company. No. 156,338; June 20.
 Coffee and tea. Paxton & Gallagher Co. No. 154,655; Apr. 18.
 Coffee, cocoa, and chocolate. Royal Cocoa Co. No. 151,929; Feb. 14.
 Coffee, cocoa, spices, and tea. Crocker-Sprague Co. No. 162,057; Dec. 5.
 Coffee extracts, Prepared. E. Haase. No. 158,695; Sept. 12.
 Coffee flavor in solid, powdered, and liquid form. H. L. Friend. Nos. 154,788-9; May 9.
 Coffee, food-flavoring extract, tea. John Scowcroft & Sons Company. No. 156,749; July 11.
 Coffee, Imitation. F. G. Gairing. No. 161,694; Nov. 14.
 Coffee makers and percolators. Citizens' Wholesale Supply Company. No. 151,449; Feb. 7.
 Coffee, mayonnaise, peanut butter, horseradish. J. M. Fey. No. 162,245; Dec. 12.
 Coffee mills. Arcade Manufacturing Company. No. 157,613; Aug. 8.
 Coffee, Prepared. G. Washington Coffee Refining Co. No. 152,082; Feb. 14.
 Coffee, Roasted. J. S. Elliott Coffee Co. No. 160,770; Oct. 24.
 Coffee, Roasted. Sioux Falls Coffee & Spice Co. No. 151,601; Feb. 7.
 Coffee, Roasted. Smile Company. No. 151,951; Feb. 14.
 Coffee, Roasted. Smile Company. No. 162,022; Nov. 28.
 Coffee substitute. Delisco Corporation, Limited. No. 156,230; June 20.
 Coffee, sugar, tea, soup, etc. Icy-Hot Bottle Company. No. 158,708; Sept. 12.
 Coffee, tea, and catchup. John H. Wilkins Company. No. 161,032; Oct. 31.
 Coffee, tea, and catchup. John H. Wilkins Company. No. 162,178; Dec. 5.
 Coffee, tea, and cocoa. A. L. Parks Tea Company. No. 154,802; May 9.
 Coffee, tea, cocoa, spices. Johnson-Layne Coffee Company. No. 154,591; Apr. 18.
 Coffee, tea, spices. Woolson Spice Company. No. 152,648; Feb. 28.
 Coffee, tea, spices, etc. J. A. Folger & Co. No. 152,775; Mar. 7.
 Coffee, tea, spices, vinegar, and flavoring extracts. David G. Evans Coffee Company. No. 157,055; July 25.
 Coffee, tea, spices, vinegar, and flavoring extracts for foods. David G. Evans Coffee Co. No. 158,661; Sept. 12.
 Coils, wireless telephone and telegraph apparatus, Inductance, loading, and tuning. De Forest Radio Telephone and Telegraph Company. No. 160,092; Oct. 10.
 Coin holders. T. J. Sughrua. No. 162,604; Dec. 19.
 Coke. Barrett Company. No. 155,609; June 6.
 Coke. Koppers Company. Nos. 160,223-5; Oct. 17.
 Cold-cream preparation. N. V. Smith. No. 156,424; June 20.
 Cold-storage tanks and rooms with complete machinery for cooling and preserving fresh fish. J. L. Fisheries Corporation. No. 150,818; Jan. 10.
 Cold-water white. The Tripod Paint Co. No. 153,031; Mar. 7.
 Collars. Frank & Co. No. 158,439; Sept. 5.
 Collars, cuffs, and shirts. American Collar Co.-Inc. No. 157,251; July 25.
 Collars, cuffs, cravats, knitted and textile underwear for men and women, outer shirts for men. J. Hayem and Cie. No. 158,453; Sept. 5.
 Collars, cuffs, dress and negligee shirts. Columbia Shirt Company. No. 162,955; Dec. 26.
 Collars, cuffs, gumpies, vests, etc. G. Sidenberg & Co. No. 156,418; June 20.
 Collars, cuffs, gumpies, vests, etc. G. Sidenberg & Co. No. 155,833; June 6.
 Collars, Men's. C. W. Ferguson Collar Co. No. 159,183; Sept. 19.
 Cologne water. F. Hoyt & Co. No. 157,266; July 25.
 Coloring and tinting fabrics and the like, Preparation for. E. Samson. No. 161,286; Nov. 7.
 Coloring flames, Chemical Compounds for. C. V. Pohlson. No. 153,824; Mar. 28.
 Color restorer and polish for leather shoes. A. E. Perkins Corporation. No. 152,944; Mar. 7.
 Color-stripping and dye-removing compound. John Campbell & Co. No. 161,090; Nov. 7.
 Colors and dyes, dentifrices, perfumes, etc., Aniline. United States and South America Corporation. No. 158,130; Aug. 22.
 Colors and fillers, Dry. C. K. Williams & Co. No. 158,862; Sept. 12.
 Colors and rennet extract, Butter and cheese. Chr. Hansen's Laboratory. No. 154,244; Apr. 11.
 Colors and tints in dry powder form. P. W. Nelson, Inc. No. 155,025; May 16.
 Colors, Artists'. Winsor & Newton Limited. No. 151,368; Jan. 31.
 Colors, Coal-tar. Society of Chemical Industry in Basle. No. 161,838; Nov. 21.
 Colors in oil for paints, Assorted. Van Camp Hardware & Iron Company. No. 153,896; Mar. 28.
 Colors, Food. Marston-Greening Co. No. 156,345; June 20.
 Colors, paint pigments, varnishes, etc., Dry. C. A. Woolsey Paint & Color Company. No. 153,079; Mar. 7.
 Colors, Pulp and dry. Standard Wall Paper Co. No. 160,977; Oct. 31.
 Columns. A. L. Smith Iron Works. No. 153,000; Mar. 7.
 Combinations, bodices, nightdresses, etc. Salomon Stern, Ltd. No. 156,409; June 20.
 Combs. American Hard Rubber Company. No. 153,394; Mar. 21.
 Combs. Stewart & Holmes Drug Co. No. 159,124; Sept. 19.
 Combs, Hair. A. Lichtenstein. No. 151,846; Feb. 14.
 Combs, Hair. A. Lichtenstein. No. 153,483; Mar. 21.
 Combs, Hair-straightening. O. R. Altwein. No. 150,213; Jan. 3.
 Combs, pendants, hair ornaments, and bag frames of celluloid. Standard Comb Company. No. 158,819; Sept. 12.
 Combs, shoe-horns, and button-hooks. Minneapolis Drug Company. No. 154,836; May 9.
 Comfits and candies. Berdan Company. No. 162,680; Dec. 26.
 Comforters, Burton-Dixie Corporation. No. 159,674; Oct. 3.
 Compasses. Taylor Instrument Companies. Nos. 162,130-7; Dec. 5.
 Composition for treatment of roup, colds, diphtheria, etc., among fowls. H. M. Spahr. No. 155,533; May 30.

Alphabetical list of trade-marks—Continued.

- Compound for certain medicinal uses. E. M. Angell. Nos. 157,852-3; Aug. 22.
- Compound for certain named uses. Lionne Company. No. 158,002; Aug. 22.
- Compound for preventing scale and rust. Dakota Compound Company. No. 154,260; Apr. 11.
- Compound for relieving fever. W. Borkowski. No. 152,124; Feb. 21.
- Compound for the treatment of barbers' itch, poison ivy, dogwood-poison, etc. G. W. Terry. No. 158,808; Aug. 29.
- Compound for treating catarrh, asthma, and colds. C. G. Taylor. No. 159,551; Sept. 26.
- Compound for treating corns, warts, etc. J. C. Milligan. No. 151,550; Feb. 7.
- Compound for treating dropsy. I. N. Seasure. No. 155,746; June 6.
- Compound for treatment of the mucous membrane. Malign Chemical Company. No. 160,914; Oct. 31.
- Compound in powder form for treatment of dropsy. J. S. Petersen. No. 150,518; Jan. 3.
- Compressors, vapor condensers, and liquid evaporators, air and gas. Griscom-Russell Company. No. 153,972; June 13.
- Computing machines. Yard-O-Meter Corporation. No. 156,791; July 11.
- Concrete, brick, timber, and structural steel, Reinforced. John W. Ferguson Company. No. 160,181; Oct. 17.
- Concrete construction, Metal inserts for anchoring piping and shafting, etc. to. Wright & Alexander. No. 160,755; Oct. 24.
- Concrete, Metal bars for reinforcing. Pollak Steel Company. No. 159,738; Oct. 3.
- Concrete-mixers and distributing-machines, graders, etc. Koehring Company. No. 152,447; Feb. 28.
- Concrete mixers, belt and bucket conveyers, etc. Atlas Engineering Company. No. 153,653; Mar. 28.
- Concrete mixers, diaphragm pumps, hoists, backfillers, engines. Construction Machinery Company. No. 156,650; July 11.
- Concrete surfaces, Hardening compound for. R. H. Catlett. No. 153,987; Apr. 4.
- Condensers, Electrical. Dubler Condenser Co. No. 161,121; Nov. 7.
- Condensers, Electrical. Melrowsky Brothers. No. 160,922; Oct. 31.
- Condiments and spices. Green Top Company. No. 157,085; July 25.
- Conditioner for horses, cattle, etc., General. W. Gamlin. No. 155,691; June 6.
- Confection. Russell Stover Company. No. 155,844; June 6.
- Confection. Southern Eatabal Company. No. 154,705; Apr. 18.
- Confection comprising seedless raisins and roasted peanuts. Food. C. C. Adams. No. 156,828; July 13.
- Confectionery. Bunte Brothers. Nos. 161,922-3; Nov. 28.
- Confections. C. L. Peirce. No. 162,107; Dec. 5.
- Confections and candies. Pan Confection Company. No. 20,957; renewed Apr. 12, 1922.
- Confections, cakes, honey, preserves, tea, etc. S. Plumb-bridge. No. 160,800; Oct. 24.
- Confections, Candy. S. C. Bias. No. 155,929; June 13.
- Confections—namely, candy. Sykes & Thompson Co. No. 159,550; Sept. 26.
- Constipation pencils. F. E. Erickson. No. 158,212; Aug. 29.
- Construction material. Eichelberger's Sons. No. 157,413; Aug. 1.
- Construction material, Certain. Cement Gun Construction Company. No. 150,283; Jan. 3.
- Construction material, material. G. F. Horton. No. 153,204; Mar. 14.
- Construction material, Certain. Midwest Steel & Supply Company. No. 155,764; June 6.
- Construction material, Certain. Philip Carey Manufacturing Co. No. 157,173; July 25.
- Construction materials. Goshen Sash and Door Company. No. 152,795; Mar. 7.
- Construction materials. Raymond Granite Company. No. 150,531; Jan. 3.
- Construction materials. Texas Company, The. No. 156,556; June 27.
- Construction materials, Certain. Bloedel Donovan Lumber Mills. No. 155,932; June 13.
- Construction materials, Certain. H. H. Robertson Company. No. 153,293; Mar. 14.
- Construction materials, Certain. Heppes-Nelson Roofing Company. No. 155,979; June 13.
- Construction materials, Certain. Tuco Products Corporation. No. 156,073; June 13.
- Construction materials, Certain. G. Wenzelmann. No. 156,079; June 13.
- Construction materials, Certain named. Sherwin-Williams Company, The. No. 154,161; Apr. 4.
- Construction materials, Certain named. Standard Oil Company (Incorporated in New Jersey). Nos. 155,909-10; June 6.
- Containers. American Plastic Products Corp. No. 152,657; Mar. 7.
- Conveyers and elevators and spirals and parts thereof. Standard Conveyer Company. No. 150,977; Jan. 10.
- Cookers, Ham. F. E. Hoddersen-Balling. No. 162,084; Dec. 5.
- Cookies and crackers of all kinds. Pacific Coast Biscuit Co. No. 152,929; Mar. 7.
- Cookies, crackers, cakes, and biscuit. G. H. Bent Company. No. 159,275; Sept. 26.
- Cookies, Dietary. W. O. Backus. No. 157,637; Aug. 15.
- Cooking and household articles of enameled steel. Columbian Enameling & Stamping Co. No. 159,817; Sept. 26.
- Cooking and household utensils of aluminum, Certain. Eastern Aluminum Company. No. 159,343; Sept. 26.
- Cooking and household utensils of aluminum, Certain. Superior Manufacturing Co. No. 159,548; Sept. 26.
- Cooking and other utensils, Metal. J. L. Lemoine. No. 152,865; Mar. 7.
- Cooking utensils, Aluminum. Wilson Utensil Company. No. 160,741; Oct. 24.
- Cooking utensils, Kitchen. Metal and Alloy Specialties Company Inc. No. 157,542; Aug. 8.
- Cooking vessels. Nifty Jar & Cooker Manufacturing Company. No. 161,825; Nov. 21.
- Coolers. H. N. Searles. No. 161,834; Nov. 21.
- Coolers and freezers. Perfection Cooler Co. No. 159,637; Sept. 26.
- Coops, poultry boxes, egg cases, butter and packing boxes, Poultry. Webster Brothers Manufacturing Company. No. 155,115; May 16.
- Copper, nickel, and zinc and alloys for same, Nonferrous ingots of. C. N. Choate. No. 154,905; May 16.
- Core and mold ovens, brass and aluminum melting furnaces, oil and gas burners. Foundry Equipment Company. No. 162,638; Dec. 19.
- Cord and thread, Embroidery. F. A. Toombs & Co. No. 153,025; Mar. 7.
- Cord and twine. Samson Cordage Works. No. 155,073; May 16.
- Cord for fancy work and narrow tape for binding, Tinsel. Hy-Sil Manufacturing Co. No. 160,343; Oct. 17.
- Cordage. Hooven & Allison Company. Nos. 153,202-3; Mar. 14.
- Cordage. Hooven & Allison Company. No. 153,753; Mar. 28.
- Cordage, Certain named. John Rauschenberger. No. 158,782; Sept. 12.
- Cordage, including cables, ropes, and twine, Hard fiber. Plymouth Cordage Company. No. 159,480; Sept. 26.
- Cords, twine, ropes, lines. Henry C. Kelley Company. No. 154,075; Apr. 4.
- Corduroy and cotton piece goods. Hockmeyer Bros. No. 160,777; Oct. 24.
- Cork bulletin boards. United Cork Companies. No. 160,033; Oct. 10.
- Cork or cork composition. Armstrong Cork Company. No. 159,799; Oct. 10.
- Cork sheets. National Cork Products Inc. No. 154,106; Apr. 4.
- Corks. Century Cork Co. No. 159,845; Oct. 10.
- Corn cure. M. Bernhardt. No. 161,060; Nov. 7.
- Corn grits and flakes, barley and malt. Klatscher & Lorenz, Inc. No. 159,400; Sept. 26.
- Corn meal. Blakely Milling Co. No. 158,898; Sept. 19.
- Corn meal. City Mills Company. No. 159,313; Sept. 26.
- Corn plaster. L. L. Reed. No. 151,302; Jan. 24.
- Cornstarch, flavoring extracts, gelatine dessert, and tapioca. Wabash Baking Powder Company. No. 158,847; Sept. 12.
- Cornstarch or corn-flour, Preparation of. National Starch Manufacturing Company. No. 21,751; renewed Sept. 13, 1922.
- Cornets. Lyon & Healy. No. 154,201; Apr. 4.
- Corrugated shipping containers. Agar Manufacturing Corporation. No. 154,213; Apr. 11.
- Corset waists, brassières, bandeaux, etc. American Lady Corset Co. No. 157,448; Aug. 8.
- Corsets. American Lady Corset Co. No. 156,793; July 11.
- Corsets. Bay State Corset Co. No. 154,429; Apr. 11.
- Corsets. Bay State Corset Company. No. 162,473; Dec. 19.
- Corsets. George C. Batcheller & Co. No. 158,607; Sept. 12.
- Corsets. George C. Batcheller & Co. No. 158,890; Sept. 19.
- Corsets. Crown Corset Company. No. 151,111; Jan. 24.
- Corsets. F. P. Hoy, Incorporated. Nos. 158,987-8; Sept. 19.
- Corsets. T. Hynds. No. 157,984; Aug. 22.
- Corsets. I. Newman & Sons. No. 154,641; Apr. 18.
- Corsets. Kalamazoo Corset Company. No. 152,087; Feb. 14.
- Corsets. Lord & Taylor. No. 156,002; June 13.
- Corsets. Nu Bone Corset Company. Nos. 160,259-60; Oct. 17.
- Corsets. Quality Corset Company. No. 161,269; Nov. 7.
- Corsets. Rite Form Corset Co. No. 156,142; June 13.
- Corsets. Rite Form Corset Co. No. 159,073; Sept. 19.
- Corsets. E. Schweinburg. No. 21,006; renewed Apr. 19, 1922.
- Corsets. J. Siegel & Co. No. 20,503; renewed Dec. 29, 1921.
- Corsets. Strouse, Adler & Co. No. 161,645; Nov. 14.
- Corsets. Strouse, Adler & Co. No. 162,994; Dec. 26.
- Corsets. Weingarten Bros., Inc. No. 156,151; June 13.
- Corsets and brassières. American Lady Corset Co. No. 154,862; May 16.
- Corsets and brassières. Benjamin and Johnes. No. 156,180; June 20.

- Corsets and brassières. B. Goldenberg. No. 161,864; Nov. 7.
- Corsets and brassières. F. E. Lund. No. 156,702; July 11.
- Corsets and brassières. Princess Corset Co. No. 154,662; Apr. 18.
- Corsets and underwaists. George C. Batcheller & Co. No. 154,822; May 9.
- Corsets, brassières, corset covers, and waists. Kops Bros. Nos. 154,600-01; Apr. 18.
- Corsets, brassières, corset waists, bandeaux, etc. American Lady Corset Co. No. 161,041; Nov. 7.
- Corsets, brassières, corset waists, corset covers, etc. American Lady Corset Cover. No. 154,475; Apr. 18.
- Corsets, brassières, corset waists, girdles, etc. Prolaset Corset Company. No. 155,327; May 23.
- Corsets, brassières, corset waists, girdles, etc. American Lady Corset Co. No. 161,998; Nov. 28.
- Corsets, brassières, corset waists, girdles, hose supporters, dresses, hosiery, and underwear. American Lady Corset Co. Nos. 156,093-7; June 13.
- Corsets, brassières, corset waists, hosiery, etc. American Lady Corset Co. No. 157,850; Aug. 22.
- Corsets, brassières, girdles, etc. Rivoli Rubber & Novelty Co. No. 154,208; Apr. 4.
- Corsets, brassières, girdles, belts, etc. American Lady Corset Co. No. 162,467; Dec. 19.
- Corsets, brassières, under bodices, corset covers, and camisoles. Benjamin & Johns. No. 156,101; June 13.
- Corsets, corset covers, bodices, etc. Rosenthal, Fleischer & Cie. No. 157,756; Aug. 15.
- Corsets, corset waists, brassières, and bandeaux. Jackson Corset Company. No. 154,593; Apr. 18.
- Corsets, corset waists, brassières, bandeaux, etc. American Lady Corset Co. No. 160,123; Oct. 17.
- Corsets, corset waists, brassières, etc. H & W Company. No. 158,971; Sept. 19.
- Corsets, Elastic, Treo Company. Nos. 157,779-82; Aug. 15.
- Corsets, Flap attachments for. Royal Worcester Corset Company. No. 159,214; Sept. 19.
- Corsets, hose supporters, abdominal belts, brassières, etc. A. H. Lockwood. No. 158,480; Sept. 5.
- Corsets, women's underwear and nightgowns. J. C. Penney Company. No. 161,586; Nov. 14.
- Corundum, emery, and silicon carbide. General Abrasive Co. No. 157,673; Aug. 15.
- Cosmetic for treating the eyebrows. S. Markman. No. 158,493; Sept. 5.
- Cosmetic toilet preparation. Lengfeld's Pharmacy. No. 155,747; June 6.
- Cosmetics. Lehn and Fink Inc. No. 159,716; Oct. 3.
- Cosmetics for promoting the growth of human hair. Aktiengesellschaft für Chemische Produkte vormals H. Scheldemandel. No. 157,299; Aug. 1.
- Cosmetics, Liquid. M. E. Wilder. No. 156,085; June 13.
- Cosmetics or liquid rouge. N. A. Johanson. No. 153,767; Mar. 28.
- Cosmetics, particularly solutions for lightening the hair. J. Sénégas. No. 158,586; Sept. 5.
- Cosmetics, salves, and ointments. Blondeau et Cie. No. 21,085; renewed May 10, 1922.
- Cots, tables, and chairs, Folding. J. H. Richards. No. 162,353; Dec. 12.
- Cotton and cotton mixed wash dress piece goods. Walton N. Moore Dry Goods Co. No. 158,747; Sept. 12.
- Cotton and linen piece goods. Freund, Freund & Co. No. 154,277; Apr. 11.
- Cotton and silk mixture piece goods. N. Fluegelman & Co. No. 152,774; Mar. 7.
- Cotton and wool piece goods and combinations of same. Societe Rodier. No. 159,751; Oct. 3.
- Cotton and wool waste. Thomson-Diggs Company. No. 153,024; Mar. 7.
- Cotton and woolen and cotton and silk mixture piece goods. Liondale Bleach, Dye, & Print Works. No. 150,887; Jan. 10.
- Cotton bats. Carson Pirie Scott & Co. No. 159,843; Oct. 10.
- Cotton batting. Stearns & Foster Company. Nos. 150,590-3; Jan. 3.
- Cotton batting. Stearns & Foster Company. 150,595; Jan. 3.
- Cotton batting. Stearns & Foster Company. Nos. 150,597-612; Jan. 3.
- Cotton batting. Stearns & Foster Company. Nos. 153,314-21; Mar. 14.
- Cotton batting. Stearns & Foster Company. No. 156,432; June 20.
- Cotton batting, particularly glazed cotton wadding. Stearns & Foster Company. No. 150,594; Jan. 3.
- Cotton batting, particularly glazed cotton wadding. Stearns & Foster Company. No. 150,596; Jan. 3.
- Cotton batting, particularly glazed cotton wadding. Stearns & Foster Company. Nos. 150,613-4; Jan. 3.
- Cotton buffs. Durable Utilities Mfg. Corp. No. 151,742; Feb. 14.
- Cotton cloth in the piece, towels, and toweling. Boott Mills. No. 156,845; July 18.
- Cotton cloth piece goods. Marshall Field & Company. No. 155,481; May 30.
- Cotton, cotton and silk, and cotton and artificial-silk fabrics in the piece, and made-up draperies, etc. Witcombe McGeachin & Co. No. 160,745; Oct. 24.
- Cotton, cotton and silk, and cotton and artificial silk fabrics in the piece and made-up draperies, curtains, etc., of said fabrics. Witcombe, McGeachin & Co. No. 162,945; Dec. 26.
- Cotton cloths, fabrics, cloths dyed in the piece, and printed cloths. American Bleached Goods Company. No. 162,605; Dec. 26.
- Cotton, Crochet. Carson Pirie Scott & Co. No. 162,631; Dec. 19.
- Cotton, Crochet. Clark Thread Company. Nos. 162,632-3; Dec. 19.
- Cotton dress goods in the piece. Marshall Field & Company. No. 161,225; Nov. 7.
- Cotton drills. Wellington, Sears & Company. No. 155,592; May 30.
- Cotton duck or canvas. Wellington, Sears & Company. No. 156,464; June 20.
- Cotton fabrics. S. H. Greenwald Co. No. 154,283; Apr. 11.
- Cotton fabrics in pieces. Heberlein & Co., A. G. No. 158,699; Sept. 12.
- Cotton fabrics in the piece. Stettauer, Harris & Raphael. No. 157,628; Aug. 8.
- Cotton fabrics in the piece, Woven. G. A. Stafford. No. 155,287; May 23.
- Cotton fabrics in the piece, Woven. G. A. Stafford. No. 155,534; May 30.
- Cotton fabrics, silks, etc. Printed. Witcombe, McGeachin & Co. No. 154,423; Apr. 11.
- Cotton goods in the piece. American Bleached Goods Company. No. 150,708; Jan. 10.
- Cotton goods in the piece. Erwin Cotton Mills Co. No. 152,163; Feb. 21.
- Cotton goods in the piece. Hope Company. No. 162,777; Dec. 26.
- Cotton goods in the piece. Wm. Simpson, Sons & Co. No. 156,924; July 18.
- Cotton goods in the piece. Souchon Riom & Cie. No. 161,634; Nov. 14.
- Cotton goods in the piece. Trion Company. No. 156,933; July 18.
- Cotton goods in the piece or roll. Columbia Mills, Inc. No. 161,441; Nov. 14.
- Cotton goods in the piece, White and bleached. Hope Company. No. 153,466; Mar. 21.
- Cotton goods, linens, madras, and other cotton fabrics in the piece. S. K. Watts. No. 161,662; Nov. 14.
- Cotton goods not in the piece, Certain. United Turkey Red Company Limited. No. 159,779; Oct. 3.
- Cotton, linen, and half-silk piece goods. Aktiengesellschaft Clander. Nos. 156,977-80; July 25.
- Cotton, linen, and hemp, yarns, etc., Sewing. Aktiengesellschaft für Textil-Industrie, vormals Dollfus-Meig & Cie. Nos. 20,543-4; renewed Jan. 5, 1922.
- Cotton linings and pocketings. Adolph Rosenberg & Co. No. 158,791; Sept. 12.
- Cotton, Medicated. J. W. Johnson. Nos. 21,629-30; renewed Aug. 16, 1922.
- Cotton, Mercerized mending. Dexter Yarn Company. No. 151,117; Jan. 24.
- Cotton muslin, Bleached. J. C. Penney Company. No. 161,585; Nov. 14.
- Cotton net. Muser Brothers. No. 156,359; June 20.
- Cotton or cotton thread, Spool. J. & P. Coats Limited. No. 20,527; renewed Dec. 29, 1921.
- Cotton or cotton thread, Spool. J. & P. Coats Limited. Nos. 20,625-6; renewed Jan. 19, 1922.
- Cotton piece goods. American Bleached Goods Company. No. 156,158; June 20.
- Cotton piece goods. Boston Manufacturing Company, 1901. No. 152,359; Feb. 28.
- Cotton piece goods. Boston Manufacturing Company, 1901, The. Nos. 153,415-7; Mar. 21.
- Cotton piece goods. Brune, Pottberg & Co. No. 154,234; Apr. 11.
- Cotton piece goods. Brune, Pottberg & Co. No. 155,389; May 30.
- Cotton piece goods. Burton Bros. & Co. No. 150,758; Jan. 10.
- Cotton piece goods. Burton Bros. & Co. No. 159,673; Oct. 3.
- Cotton piece goods. Burton Bros. & Co. No. 161,865; Nov. 21.
- Cotton piece goods. Fred Butterfield & Co. No. 156,196; June 20.
- Cotton piece goods. Carter Dry Goods Co. No. 157,889; Aug. 22.
- Cotton piece-goods. Clafins Incorporated. No. 150,773; Jan. 10.
- Cotton piece goods. Cohn-Hall-Marx Co. No. 156,211; June 20.
- Cotton piece goods. Cohn-Hall-Marx Co. No. 157,656; Aug. 15.
- Cotton piece goods. Cohn Hall Marx Co. No. 158,640; Sept. 12.
- Cotton piece goods. Coriell, Williams and Company. No. 152,731; Mar. 7.
- Cotton piece goods. J. P. Crozer. No. 157,918; Aug. 22.
- Cotton piece goods. Rafael Del Castillo. No. 152,962; Mar. 7.
- Cotton piece goods. Eugene Ellis Co. Inc. No. 159,691; Oct. 3.
- Cotton piece goods. Everett, Heaney & Co. Nos. 161,463-4; Nov. 14.

Alphabetical list of trade-marks—Continued.

- Cotton piece goods. Everett Mills. No. 162,743; Dec. 26.
 Cotton piece goods. N. Fluegelman & Co. Inc. No. 154,752; Apr. 18.
 Cotton piece goods. N. Fluegelman & Co. No. 156,253; June 20.
 Cotton piece goods. Fort Dummer Mills. No. 152,587; Feb. 28.
 Cotton piece goods. Fort Dummer Mills. Nos. 161,475-6; Nov. 14.
 Cotton piece goods. L. & E. Frenkel, Inc. No. 162,753; Dec. 26.
 Cotton piece goods. Garner Print Works and Bleachery. No. 152,313; Feb. 21.
 Cotton piece goods. Garner Print Works and Bleachery. Nos. 152,590-1; Feb. 28.
 Cotton piece goods. Garner Print Works and Bleachery. Nos. 154,941-3; May 16.
 Cotton piece goods. Garner Print Works and Bleachery. No. 155,230; May 23.
 Cotton piece goods. Henry Glass & Co. No. 150,824; Jan. 10.
 Cotton piece goods. Henry Glass & Co. No. 152,790; Mar. 7.
 Cotton piece goods. Henry Glass & Co. No. 162,963; Dec. 26.
 Cotton piece goods. J. W. Goddard & Sons, Inc. No. 161,482; Nov. 14.
 Cotton piece goods. Goldenberg Brothers & Company. No. 150,387; Jan. 3.
 Cotton piece goods. J. Grossman & Co. No. 156,800; July 11.
 Cotton piece goods. J. Grossmann & Co. No. 161,492; Nov. 14.
 Cotton piece goods. J. A. Hearn & Son, Inc. No. 157,811; Aug. 15.
 Cotton piece goods. Hill Manufacturing Co. No. 156,296; June 20.
 Cotton piece goods. Hockmeyer Bros. No. 159,706; Oct. 3.
 Cotton piece goods. Hockmeyer Bros. Nos. 162,517-18; Dec. 19.
 Cotton piece goods. Hunter Mfg. & Com. Co. No. 161,170; Nov. 7.
 Cotton piece goods. Jackson & Jackson. No. 162,967; Dec. 26.
 Cotton piece goods. John P. King Manufacturing Co. No. 156,573; June 27.
 Cotton piece goods. Lonsdale Company. No. 153,231; Mar. 14.
 Cotton piece goods. Lonsdale Company. No. 156,534; June 27.
 Cotton piece goods. Manville Company. No. 154,323; Apr. 11.
 Cotton piece goods. Marcus Bros. No. 154,623; Apr. 18.
 Cotton piece goods. Massachusetts Cotton Mills. No. 156,892; July 18.
 Cotton piece goods. Minot, Hooper & Co. No. 159,039; Sept. 19.
 Cotton piece goods. Morton Sundour Fabrics, Ltd. Nos. 152,236-7; Feb. 21.
 Cotton piece goods. Morton Sundour Fabrics Ltd. No. 157,719; Aug. 15.
 Cotton piece goods. M. H. Oppenheimer & Co. No. 162,568; Dec. 19.
 Cotton piece goods. Pacific Mills. No. 153,941; Mar. 28.
 Cotton piece goods. Pacific Mills. No. 155,581; May 30.
 Cotton piece goods. Pacific Mills. Nos. 156,382-3; June 20.
 Cotton piece goods. Pacific Mills. No. 156,903; July 18.
 Cotton piece goods. Pacific Mills. No. 157,428; Aug. 1.
 Cotton piece goods. Pacific Mills. No. 157,734; Aug. 15.
 Cotton piece goods. Pacific Mills. Nos. 158,049-50; Aug. 22.
 Cotton piece goods. Passaic Print Works. No. 157,559; Aug. 8.
 Cotton piece goods. Passaic Print Works. Nos. 157,740-1; Aug. 15.
 Cotton piece goods. Passaic Print Works. No. 159,210; Sept. 19.
 Cotton piece goods. Passaic Print Works. No. 159,635; Sept. 26.
 Cotton piece goods. Passaic Print Works. No. 159,732; Oct. 3.
 Cotton piece goods. Pelzer Manufacturing Company. Nos. 158,769-70; Sept. 12.
 Cotton piece goods. J. C. Penney Company. No. 156,388; June 20.
 Cotton piece goods. M. W. Ryan. No. 157,435; Aug. 1.
 Cotton piece goods. W. W. Rycroft & Co. No. 150,551; Jan. 3.
 Cotton piece goods. Smith, Hogg & Co. No. 156,423; June 20.
 Cotton piece goods. Société Rodier. No. 153,532; Mar. 21.
 Cotton piece goods. R. A. Suffern. No. 153,545; Mar. 21.
 Cotton piece goods. R. A. Suffern. No. 159,127; Sept. 19.
 Cotton piece goods. Texas Cotton Mill Co. No. 153,546; Mar. 21.
 Cotton piece goods. Tilton & Keeler, Inc. No. 158,115; Aug. 22.
 Cotton piece goods. Trion Company. Nos. 156,445-6; June 20.
 Cotton piece goods. Trippe, Barker & Co. No. 156,447; June 20.
 Cotton piece goods. Victor Monaghan Company. No. 150,998; Jan. 10.
 Cotton piece goods. Victor Monaghan Company. No. 156,822; July 11.
 Cotton piece goods. Victor Monaghan Company. No. 159,781; Oct. 3.
 Cotton piece goods. Ware Shoals Mfg. Co. No. 156,460; June 20.
 Cotton piece goods. Ware Shoals Mfg. Co. No. 156,938; July 18.
 Cotton piece goods. White Mills of New Hampshire. No. 152,547; Feb. 28.
 Cotton piece goods. Whittenton Manufacturing Company. No. 156,468; June 20.
 Cotton piece goods. Wohl, South & Co. No. 155,303; May 23.
 Cotton piece goods. York Mfg. Co. No. 161,861; Nov. 21.
 Cotton piece goods and drapery fabrics of cotton, silk, etc. Colony Mills Inc. No. 159,681; Oct. 3.
 Cotton piece goods and piece goods of cotton and silk mixtures. M. Barish. No. 162,672; Dec. 26.
 Cotton piece goods and woolen dress goods. M. Silverman & Son. No. 161,625; Nov. 14.
 Cotton piece goods, cotton sheetings, shirtings, dress goods, etc. Phillips-Jones Corporation. Nos. 162,981-2; Dec. 26.
 Cotton piece goods, silks, ducks, &c. International Standard Exporting Corporation. No. 150,857; Jan. 10.
 Cotton piece goods, White. California Cotton Mills Company. No. 150,759; Jan. 10.
 Cotton piece goods, Woven. Neuss, Hesslein & Co. No. 150,914; Jan. 10.
 Cotton piece goods, Woven. Neuss, Hesslein & Co. No. 153,266; Mar. 14.
 Cotton piece goods, Woven. Neuss, Hesslein & Co. No. 156,367; June 20.
 Cotton piece goods, Woven. Neuss, Hesslein & Co. No. 159,047; Sept. 19.
 Cotton piece goods, Woven. Neuss, Hesslein & Co. No. 161,244; Nov. 7.
 Cotton pile cloth in the piece. John S. Boyd Company. No. 160,081; Oct. 10.
 Cotton seed for planting purposes. San Marcos Pedigreed Cotton Company. No. 160,006; Oct. 10.
 Cottonseed meal for use as a fertilizer. California Cotton Oil Company. No. 158,912; Sept. 19.
 Cotton, silk, and cotton and silk piece goods. J. Richman & Co. No. 157,751; Aug. 15.
 Cotton, silk, and linen goods, and mixtures, all in the piece. Jacob Miller Sons & Co. No. 156,350; June 20.
 Cotton, silk, and linen goods and mixtures of cotton and silk and linen and silk in the piece. Jacob Miller Sons & Co. No. 156,585; July 4.
 Cotton, silk, and linen goods and mixtures of cotton and silk, and linen and silk, all in the piece. Jacob Miller Sons & Co. Nos. 159,723-5; Oct. 3.
 Cotton, silk, and other piece goods. Mount Hope Finishing Company. No. 157,546; Aug. 8.
 Cotton, silk, etc., piece goods. N. Erlanger, Blumgart & Co. No. 152,394; Feb. 28.
 Cotton, silk, etc., piece goods. H. V. T. Schill Co. No. 152,073; Feb. 14.
 Cotton, silk, linen goods, and mixtures in the piece. Jacob Miller Sons & Co. No. 157,153; July 25.
 Cotton, Spool. W. Warren Thread Wks. Nos. 162,655-60; Dec. 19.
 Cotton suiting in the piece. Tilton & Keeler. No. 153,331; Mar. 14.
 Cotton suitings. Nashua Manufg. Company. No. 155,492; May 30.
 Cotton textiles in the piece. N. Erlanger, Blumgart & Co. Nos. 159,692-3; Oct. 3.
 Cotton textiles in the piece. N. Erlanger, Blumgart & Co. Nos. 161,461-2; Nov. 14.
 Cotton textiles in the piece, Certain. Turner, Halsey, Company. No. 150,627; Jan. 3.
 Cotton textiles, Woven. James E. Richards Company. No. 161,274; Nov. 7.
 Cotton thread and cotton yarn, Spool and sewing. American Thread Company. No. 151,071; Jan. 24.
 Cotton thread and yarn, Mercerized. Dexter Yarn Company. No. 151,116; Jan. 24.
 Cotton, thread, cotton yarn, Spool and sewing. American Thread Company. No. 156,987; July 25.
 Cotton thread or spool cotton. J. & P. Coats Limited. No. 20,526; renewed Dec. 29, 1921.
 Cotton waste. Estate of Robert. Bishop. No. 159,809; Oct. 10.
 Cotton waste. Geo. B. Carpenter & Co. Nos. 159,836-42; Oct. 10.
 Cotton waste. Geo. B. Carpenter & Co. No. 160,407; Oct. 24.
 Cotton waste. New Bedford Cotton Waste Co. No. 154,107; Apr. 4.
 Cotton, woolen, or silk piece goods. H. J. Cathcart. No. 155,143; May 16.
 Cots, stools, and chairs, Folding. Tucker Duck & Rubber Co. No. 156,147; June 13.
 Cough balsam, hair stain, and blood remedy. M. Mashkes. No. 154,327; Apr. 11.
 Cough drops. E. G. Binz. No. 158,575; Sept. 5.
 Cough drops. C. L. Brush. No. 160,842; Oct. 31.
 Cough drops. L. B. Cimicata. No. 157,318; Aug. 1.

- Cough drops and cough candy. H. Pettersen. No. 158,457; Sept. 5.
- Cough lozenges and sirup and compound for treatment of coughs. Vienna Medical Company. No. 159,143; Sept. 19.
- Cough medicine. M. A. Jasper. No. 150,312; June 20.
- Cough medicines. J. F. Allison. No. 150,214; Jan. 3.
- Cough sirup. C. A. Anstadt. No. 153,378; Sept. 5.
- Cough sirup. J. H. Baker. No. 156,833; July 18.
- Cough sirup. L. Cauffman. No. 152,704; Mar. 7.
- Counter for stores. E. A. Burrows. No. 151,693; Feb. 14.
- Counterirritants. Parke, Davis & Company. No. 160,939; Oct. 31.
- Counting machines. Root Company. No. 150,959; Jan. 10.
- Couplings, Flexible disks for universal. Merchant & Evans Company. No. 157,426; Aug. 1.
- Cows, Guernsey. John C. Haartz. No. 160,514; Oct. 24.
- Crabs, clams, shrimp, oysters, &c., Fresh and cooked. W. Hasslinger. No. 156,571; June 27.
- Crackers. New England Biscuit Company. No. 152,908; Mar. 7.
- Crackers. Pacific Coast Biscuit Co. No. 161,899; Nov. 21.
- Crackers, cakes, and biscuits. Purity Biscuit Company. No. 162,452; Dec. 12.
- Crackers, Cheese. Green and Green Company. No. 151,785; Feb. 14.
- Crackers, Chocolate-coated. Green and Green Company. No. 161,148; Nov. 7.
- Crackers, Soda. Iren Biscuit Co. No. 161,510; Nov. 14.
- Crackers, Soda. Miller-Parrott Baking Co. No. 153,604; Mar. 21.
- Crackers, Soda. Miller-Parrott Baking Co. No. 153,606; Mar. 21.
- Cranes. Colby Steel and Engineering Co. No. 152,370; Feb. 28.
- Cranes, derricks, derrick irons, and aeronautical apparatus and riveting tools. Terry Manufacturing Company Inc. No. 153,947; Mar. 28.
- Cranes, Electric. Milwaukee Electric Crane & Mfg. Co. No. 156,710; July 11.
- Crank-case oil pipes. E. Allen. No. 153,641; Mar. 28.
- Crash, towels, and toweling. West Point Manufacturing Company. No. 156,825; July 11.
- Crash, towels, and toweling. West Point Manufacturing Company. No. 159,783; Oct. 3.
- Crates, Bottle. York Milk Machinery Company. No. 150,659; Jan. 3.
- Crates for fruits and vegetables. A. Bennett & Co. No. 152,681; Mar. 7.
- Crates, Poultry. United Steel and Wire Co. No. 153,554; Mar. 21.
- Cravats. W. O. Horn & Brother, Inc. No. 160,211; Oct. 17.
- Cravats. I. Kunstler. No. 151,837; Feb. 14.
- Cravats, Men's and boys'. Hut Neckwear Company. No. 157,983; Aug. 22.
- Cravats, Men's and boys'. Mayer-Mueller-Goodman Co. No. 154,632; Apr. 18.
- Crayons. Art Crayon Co. No. 156,165; June 20.
- Crayons. Joseph Dixon Crucible Company. No. 160,451; Oct. 24.
- Crayons. Standard Oil Company of New York. No. 160,678; Oct. 24.
- Crayons and the labels of same. Ullman Manufacturing Co. No. 160,698; Oct. 24.
- Crayons, Dustless. American Crayon Company. No. 156,984; July 25.
- Crayons, Wax and chalk. Standard Crayon Manufacturing Co. Nos. 159,536-41; Sept. 26.
- Crayons, Wax and chalk. Standard Crayon Manufacturing Co. Nos. 160,676-7; Oct. 24.
- Cream and powder, Face. F. R. Arnold & Co. No. 155,601; June 6.
- Cream and tooth paste, Pyorrhea. A. F. Luzzi. No. 153,783; Mar. 28.
- Cream, Baby. Johnson & Johnson. No. 150,425; Jan. 3.
- Cream, Beauty. W. T. Green. No. 150,394; Jan. 3.
- Cream, Beauty. M. Levinstein. No. 151,530; Feb. 7.
- Cream, Cleansing. A. J. Krank. No. 152,604; Feb. 28.
- Cream, Cleansing. A. H. Schmidt. No. 161,288; Nov. 7.
- Cream, Cold. S. M. Baltzy. No. 150,242; Jan. 3.
- Cream, Cold. Pond's Extract Company. No. 157,431; Aug. 1.
- Cream, Cold. Richard Hudnut. No. 152,601; Feb. 28.
- Cream, Cold. L. G. Ryan. No. 161,282; Nov. 7.
- Cream, Face. E. Bajanova. No. 153,655; Mar. 28.
- Cream, Face. Dr. C. H. Berry Chemical Co. No. 155,620; June 6.
- Cream, Face. E. M. Bozardt. No. 153,980; Apr. 4.
- Cream, Face. N. Hartofelis. No. 152,191; Feb. 21.
- Cream, Face. G. S. Johnson. No. 151,518; Feb. 7.
- Cream, Face. Scientific Research Laboratories. No. 158,296; Aug. 29.
- Cream, Face. J. Simon & Cie. No. 154,697; Apr. 18.
- Cream, Face. M. E. Wilder. No. 161,340; Nov. 7.
- Cream, Face. G. C. Wilson. No. 161,342; Nov. 7.
- Cream, Face massage. L. T. Dickerson. No. 155,667; June 6.
- Cream, Facial. E. Burnham, Inc. No. 159,672; Oct. 3.
- Cream, Facial. E. Burnham, Inc. No. 161,688; Nov. 14.
- Cream for beautifying the skin. M. F. Stamos. No. 150,587; Jan. 3.
- Cream for softening and beautifying the skin, Massage. M. & S. Co. No. 151,551; Feb. 7.
- Cream for the ankles, Massage. J. Farrelly. No. 153,440; Mar. 21.
- Cream, Medicated skin. Zem Chemical Company. No. 152,305; Feb. 21.
- Cream puffs, claires, &c., Filling for. Economic Materials Co. No. 153,437; Mar. 21.
- Cream, Shaving. A. J. Krank Manufacturing Company. No. 157,817; Aug. 15.
- Cream, Shaving. Shavo Company. No. 160,294; Oct. 17.
- Cream, Shaving. H. Viscardi. No. 159,235; Sept. 19.
- Cream, Shaving-soap. Miller Laboratories, Inc. No. 157,825; Aug. 15.
- Cream, Skin. Geer Drug Company. No. 156,257; June 20.
- Cream, Skin. C. R. Harker, Stagg & Morgan. No. 157,973; Aug. 22.
- Cream, Sunburn. P. L. McConomy. No. 159,939; Oct. 10.
- Cream, Toilet. I. Magnus & Co. No. 155,478; May 30.
- Cream, Toilet. M. C. Moore. No. 150,481; Jan. 3.
- Cream, Toilet. Sem-Pray Jo-Ve-Nay Company. Nos. 153,414-5; June 20.
- Cream, Toilet. The Stimule Company, Inc. No. 160,025; Oct. 10.
- Cream, Toilet or complexion. R. H. Cochran. No. 154,003; Apr. 4.
- Cream, toilet soap, and cleaner, Shaving. Mills Brothers Company. No. 162,554; Dec. 19.
- Cream, Vanishing. M. Casey. No. 157,805; Aug. 15.
- Cream, Vanishing. Ma-Da-Ho Drug Co. No. 154,320; Apr. 11.
- Creamers, Centrifugal. Aktiebolaget Separator. Nos. 20,967-8; renewed Apr. 12, 1922.
- Creams and lotions, Face. C. W. Swearingen. No. 158,306; Aug. 29.
- Creams and lotions, Face and hand. R. A. Hudson Company. No. 155,982; June 13.
- Creams and powders, grease paints and make up, and substitutes therefor, Face. S. E. Brown. No. 153,982; Apr. 4.
- Creams and powders, Toilet. L. S. Thomas. No. 160,982; Oct. 31.
- Creams, antiseptic beauty balm, hair tonic, hair-curling fluid, Face-cleansing and face. T. E. Isaacs. No. 158,465; Sept. 5.
- Creams, astringent lotion, etc., Toilet. A. T. Clapper. No. 155,396; May 30.
- Creams, Face. H. P. Cogbill. No. 158,413; Sept. 5.
- Creams, Face. H. Lewis. No. 158,478; Sept. 5.
- Creams, Face. Louis Philippe, Inc. No. 157,429; Aug. 1.
- Creams, Face. L. L. Stern. No. 155,843; June 6.
- Creams, Lip and face. R. Fischer. No. 152,772; Mar. 7.
- Creams, liquid and dry face powders, Face. E. B. Finlayson. No. 150,360; Jan. 3.
- Creams, Skin. Derma-Manna Co. No. 157,925; Aug. 22.
- Creams, toilet powders, shampoos, etc., Skin-cleansing and toilet. B. F. Darnelle. No. 158,929; Sept. 19.
- Crêpe and broad silks in the piece. Louis Roessel & Co. No. 152,972; Mar. 7.
- Crêpe in the piece. Louis Roessel & Co. No. 157,832; Aug. 15.
- Cretonne. Marshall Field & Company. No. 161,556; Nov. 14.
- Crib for children, Folding. E. M. Trimble. No. 151,980; Feb. 14.
- Crochet and embroidery cotton. Burnstine and Nechman. No. 151,692; Feb. 14.
- Crockery cooking utensils and dishes, flowerpots, etc. American Wholesale Corporation (Baltimore Bargain House). No. 156,972; July 18.
- Crucibles. Lava Crucible Company. No. 152,608; Feb. 28.
- Crullers. Van Cruller Company. No. 152,532; Feb. 28.
- Crushers and like machines. Williams Patent Crusher & Pulverizer Co. Nos. 159,589-90; Sept. 26.
- Crushers for paint mills and mixers and corn shellers, Certain. C. O. Bartlett & Snow Company. No. 150,723; Jan. 10.
- Cuffs and shirts. Sherwin-Spinner Company. No. 159,098; Sept. 19.
- Culinary and kitchen utensils. Ernest Stevens Limited. No. 157,211; July 25.
- Culinary and kitchen utensils, Wire. Wickwire Spencer Steel Corporation. No. 151,638; Feb. 7.
- Cultivators. H. C. Strack. No. 153,946; Mar. 28.
- Cultivators, plows, harrows, etc., and hitches. Cleveland Tractor Company. No. 154,907; May 16.
- Current adjuster, Automatic filament. Radiall Company. No. 162,343; Dec. 12.
- Curtain fixtures and brackets. Bay State Stamping Company. No. 157,253; July 25.
- Curtain holders. M. J. Smith. No. 159,529; Sept. 26.
- Curtain rods. Newell Mfg. Co. No. 157,550; Aug. 8.
- Curtain rods, Metal. H. L. Judd Company. No. 162,794; Dec. 26.
- Curtains and nets or curtain lace in piece goods, Lace. Chester Lace Mills. No. 161,438; Nov. 14.
- Curtains and nets or curtain lace in piece goods, Lace. Quaker Lace Company. No. 157,831; Aug. 15.
- Curtains, Lace. Wm. R. Miller Company. No. 154,100; Apr. 4.
- Cushions. Jessal Company. No. 151,819; Feb. 14.

Alphabetical list of trade-marks—Continued.

- Cushions and pads, piano-bench pads, boat and canoe cushions, etc., Porch swing and chair. Ottawa Cushion Co. No. 158,161; Aug. 22.
- Cushions, pads, and mats, Certain. Ottawa Cushion Co. No. 162,570; Dec. 19.
- Custard powder. A. L. Godwin Products Company. No. 155,968; June 13.
- Cuticle remover. Northam Warren Corporation. No. 154,357; Apr. 11.
- Cutlery. J. A. Henckels. No. 159,372; Sept. 26.
- Cutlery. Lessmann Bros. No. 154,996; May 16.
- Cutlery. Edward Week & Son. No. 154,418; Apr. 11.
- Cutlery and tools. Collins Company. No. 159,315; Sept. 26.
- Cutlery and tools, Certain. Alfred Field & Co. No. 162,073; Dec. 5.
- Cutlery and tools; Certain. Wester Bros. No. 161,910; Nov. 21.
- Cutlery and tools, Certain. Winchester Repeating Arms Co. No. 152,553; Feb. 28.
- Cutlery and tools, Certain articles of. Blish, Mize & Stillman Hardware Co. No. 156,186; June 20.
- Cutlery, Articles of. Societe Generale de Coutellerie & Orfèverie. Nos. 156,756-7; July 11.
- Cutlery, edge and other tools. J. Allen. Nos. 20,392-3; renewed Nov. 24, 1921.
- Cutlery, machinery, and tools. Société Anonyme des Ateliers Borel-Profil. Nos. 150,972-3; Jan. 10.
- Cutlery, machinery, and tools, Certain. Fairbanks Company. No. 153,167; Mar. 14.
- Cutlery, machinery, and tools, Certain. Gomez & Sloan, Inc. No. 155,969; June 13.
- Cutlery, machinery, and tools, Certain. Hadfields Ltd. No. 152,808; Mar. 7.
- Cutlery, machinery, and tools, Certain. I. Kwielecki's Sons. No. 155,896; June 6.
- Cutlery, machinery, and tools, Certain. Thompson Hardware Company. No. 151,411; Jan. 31.
- Cutlery, machines, and tools. Thomson-Diggs Company. No. 154,400; Apr. 11.
- Cutlery, machines, and tools, Certain. John Dunn, Son & Co. No. 151,465; Feb. 7.
- Cutting-die blocks, cutting blocks, cutting boards, etc. Appleton Wood Products Company. No. 151,372; Jan. 31.
- Cutting tools for metal-working machines. Baker-Waechter Company. No. 151,425; Feb. 7.
- Cutting tools for working wood and metal, Certain. J. Thompson. No. 157,219; July 25.
- Cyanides, Silver, zinc, and copper. Middlesex Aniline Company. No. 157,362; Aug. 1.
- Dairies, Ice-cream plants, etc., Machines for. Cherry-Bassett Company. No. 151,379; Jan. 31.
- Dairy feed. R. M. Stegall. No. 153,011; Mar. 7.
- Dairy products. G. O. Clark. No. 159,679; Oct. 3.
- Damask in the piece, Mercerized cotton. Pauline Mills, Inc. Nos. 158,360-1; Aug. 29.
- Dandruff remedy. J. Cangelosi. No. 155,634; June 6.
- Dates. Hills Brothers Company. No. 156,572; June 27.
- Dates and figs, Dried. Great Atlantic and Pacific Tea Company. No. 152,802; Mar. 7.
- Dates, Colmer grapes, Muscatel grapes, and Belgian endives, Tunis. Van Dyk & Lindsay Inc. No. 158,559; Sept. 5.
- Dates, Fresh. Van Dyk & Reeves. No. 154,725; Apr. 18.
- Dates, Fresh. Van Dyk and Reeves. No. 156,771; July 11.
- Davenport. Royal Easy Chair Corporation. No. 159,078; Sept. 19.
- Decarbonizer for internal-combustion engines. Magnesium Products Co. No. 154,092; Apr. 4.
- Decolorization. Substance for use in manufacture for. Klarit Limited. No. 154,077; Apr. 4.
- Decoration made of tin foil for Christmas trees. Conley Foll Company. No. 151,718; Feb. 14.
- Decoys, Duck. P. A. Sperry. No. 162,023; Nov. 28.
- Dehydroxycodemonchlorhydrate. E. Merck. No. 161,802; Nov. 21.
- Denims in the piece. Erwin Cotton Mills Co. No. 150,805; Jan. 10.
- Denims in the piece, Cotton. Samoset Cotton Mills. No. 162,882; Dec. 26.
- Dental and surgical supplies. Heidbrink Company. No. 154,290; Apr. 11.
- Dental apparatus and supplies. Claudius Ash, Sons & Company. No. 152,723; Mar. 7.
- Dental apparatus and supplies, Certain named. Claudius Ash, Sons & Co. Limited. No. 154,246; Apr. 11.
- Dental appliances. J. F. Jelenko & Co. No. 151,150; Jan. 24.
- Dental appliances. S. S. Dental Manufacturing Company. No. 161,387; Nov. 7.
- Dental appliances, Certain. H. Friedman. No. 153,173; Mar. 14.
- Dental appliances, Certain. M. E. Higgins. No. 153,462; Mar. 21.
- Dental articulators. Szabo & Beer. No. 153,017; Mar. 7.
- Dental cement, alloy, temporary stopping. Alexander Cassriel Company. No. 154,899; May 16.
- Dental cream. R. H. McMellan. No. 152,613; Feb. 28.
- Dental cream. G. F. Smith. No. 150,574; Jan. 3.
- Dental cream, paste, powder, and liquid cleaner. Crown Supply Company. No. 161,107; Nov. 7.
- Dental crowns and bridges, Material for models for the construction of. J. C. Schwartz. No. 158,804; Sept. 12.
- Dental devices. Dresch Laboratories Co. No. 154,270; Apr. 11.
- Dental files and saws. S. S. White Dental Manufacturing Company. No. 155,118; May 16.
- Dental floss. S. M. Sharpe. No. 152,993; Mar. 7.
- Dental medicines and tooth paste, Germicidal. L. E. Sweitzer. No. 156,439; June 20.
- Dental paste. Pyrosal Company. No. 155,509; May 30.
- Dental plasterwork, Separating solution for. C. A. MacDermid. No. 159,943; Oct. 10.
- Dental polishers. L. A. Young. No. 153,088; Mar. 7.
- Dental preparations. H. N. Creger. No. 161,106; Nov. 7.
- Dental supplies and appliances. L. D. Caulk Company. No. 156,640; July 11.
- Dental supplies, Certain. Goldsmith Brothers Smelting and Refining Company. No. 153,455; Mar. 21.
- Dental syringes. E. F. Goldberg. No. 161,484; Nov. 14.
- Dental tools. Flostik Company. No. 154,275; Apr. 11.
- Dental tools. United States Dental Manufacturing Co. Nos. 158,556-7; Sept. 5.
- Dental tools and appliances. Kuroris Supply Company. No. 158,476; Sept. 5.
- Dental toothpicks, Medicated. M. G. Labbee. No. 159,011; Sept. 19.
- Defrifice. Beech-Nut Packing Company. No. 154,227; Apr. 11.
- Defrifice. G. F. Bowman and C. F. C. Arensberg. No. 161,424; Nov. 14.
- Defrifice. Florence Manufacturing Company. No. 21,733; renewed Sept. 13, 1922.
- Defrifice. W. H. Hall. No. 20,552; renewed Jan. 5, 1922.
- Defrifice. O. W. Huff. No. 157,685; Aug. 15.
- Defrifice. North American Hygienic Company. No. 158,271; Aug. 29.
- Defrifice. W. M. Ruthrauff Company. No. 155,812; June 6.
- Defrifice. O. L. Stone. No. 161,726; Nov. 14.
- Defrifice in the form of a paste, wash, or powder. Sazoym Incorporated. No. 154,380; Apr. 11.
- Defrifices. Penslar Company. No. 152,251; Feb. 21.
- Defrifices. Pensopod Company. No. 157,371; Aug. 1.
- Defrifices, gum, and tooth remedies. Antitartar Chemical Company. No. 161,043; Nov. 7.
- Defrifices, Liquid. Birch Chemical Co. No. 152,122; Feb. 21.
- Defrifices—namely, tooth paste. R. W. Rennie. No. 151,930; Feb. 14.
- Dentists' and doctors' record blanks. Dendoc Company. No. 160,851; Oct. 31.
- Dentists' and surgeons' instruments and appliances. Hadfield's Limited. No. 159,704; Oct. 3.
- Deodorant. E. Burnham, Inc. No. 159,825; Oct. 10.
- Deodorant. Plough Chemical Company. No. 159,989; Oct. 10.
- Deodorant and disinfectant. Kane Chemical Company. No. 154,069; Apr. 4.
- Deodorant and disinfectant. I. Ressler. No. 151,578; Feb. 7.
- Deodorant, Powdered. Zeeta Company. No. 154,424; Apr. 11.
- Deodorants. Boots Pure Drug Company. No. 161,422; Nov. 14.
- Deodorants. K. W. Moore. No. 158,497; Sept. 5.
- Deodorants. Sweet-Odor-Home Company. No. 152,281; Feb. 21.
- Deodorizers. W. E. McMillan. No. 150,460; Jan. 3.
- Depilatories. W. J. Ferguson. No. 158,215; Aug. 29.
- Depilatories. Odorono Company. No. 150,501; Jan. 3.
- Depilatories. Odorono Company. No. 158,272; Aug. 29.
- Depilatories, shampoos, face creams, etc. Imperial Chemical Mfg. Co. No. 157,525; Aug. 8.
- Depilatory. Dearborn Supply Company. No. 155,403; May 30.
- Depositors' pass books of its school bank and savings club. National Thrift System Company. No. 160,600; Oct. 24.
- Desk pads, Calendar. Clark & Leonard. No. 161,760; Nov. 21.
- Desks. Commercial Furniture Company. No. 150,310; Jan. 3.
- Desks and folding and school chairs. Peabody School Furniture Co. No. 151,903; Feb. 14.
- Desks and office tables. Hoosier Desk Company. No. 158,984; Sept. 19.
- Desks and office tables, Sheet-metal. Jamestown Metal Desk Company. No. 153,474; Mar. 21.
- Desks, studio tables, stands, and easels. J. Michaels. No. 157,716; Aug. 15.
- Detergent preparations. Kendall Products Corporation. No. 159,396; Sept. 26.
- Detergents, Soluble chemical compounds used as. Electric Smelting & Aluminum Co. Nos. 151,745-7; Feb. 14.
- Diagnostic instruments, Eye, ear, nose, and throat. H. L. De Zeng. No. 126,719; Dec. 26.
- Diagnostic instruments for measuring the rate of oxygen consumption. H. M. Jones. No. 152,437; Feb. 28.
- Diapers. Utica Infant Wear Corp. No. 160,317; Oct. 17.
- Diapers and diaper material. Forney & Co. No. 157,065; July 25.
- Dianers, Rabies'. Thomas Textile Company. Nos. 160,311-12; Oct. 17.
- Dice. C. Hardman. No. 162,773; Dec. 26.
- Dice, Rotatable. Spinim Co. No. 152,511; Feb. 28.

- Dictionaries. G. & C. Merriam Company. Nos. 162,309-11; Dec. 12.
- Dies, Steel. A. Finkl & Sons Co. No. 154,933; May 16.
- Diet materials for infants and invalids. Mead Johnson & Co. No. 154,589; Apr. 18.
- Digester tankage used as a food for hogs and animals. F. F. Buhner. No. 160,143; Oct. 17.
- Dipping tanks and tanks for wagons and motor trucks. Wheeling Corrugating Company. No. 150,698; Jan. 3.
- Dish scrapers. J. S. Lewis. No. 150,879; Jan. 10.
- Dish washers and suction cleaners, Electrically-operated. Apex Electrical Manufacturing Co. No. 162,185; Dec. 12.
- Dish-washing machines. Sanitary Dish Washing Machine Company. No. 152,495; Feb. 28.
- Dish-washing machines, Electric. Knox Motors Company. No. 158,472; Sept. 5.
- Dish-washing machines, Electric. A. S. Loveland. No. 158,485; Sept. 5.
- Dishes, Household. F. C. Baxter. No. 161,054; Nov. 7.
- Disinfectant. Colonial Chemical Corporation. No. 156,213; June 20.
- Disinfectant. H. Hague. No. 158,227; Aug. 29.
- Disinfectant. A. Lucati. No. 154,087; Apr. 4.
- Disinfectant, insecticide, and fungicide, Chemical. Home Products, Inc. No. 153,752; Mar. 28.
- Disinfectants. Glidden Company. No. 157,336; Aug. 1.
- Disinfectants. Washington Laboratories, Inc. No. 161,337; Nov. 7.
- Disinfectants and deodorants. M. Meyers. No. 155,762; June 6.
- Disinfectants and insecticides. C. E. Williams. No. 161,006; Oct. 31.
- Disinfectants, antiseptics, and purifiers. West Disinfecting Company. No. 158,142; Aug. 22.
- Disinfectants, deodorants, and insecticides. Mirrolite Mfg. Co. No. 161,237; Nov. 7.
- Disinfectants, deodorizers, fumigators, antiseptics. W. H. Huggins. No. 155,450; May 30.
- Disinfectants, insecticides, and deodorant. Furman Company. No. 157,954; Aug. 22.
- Disinfecting and fumigating chemicals. P. A. Brown. No. 155,626; June 6.
- Dispensers, measuring pumps, and meters. S. F. Bowser & Company. No. 159,288; Sept. 26.
- Display and storage cabinets. Peep-In Company. No. 162,337; Dec. 12.
- Display counters, cases, and cabinets, Store. F. A. Mailander. No. 162,301; Dec. 12.
- Display counter, Freezer. Harry L. Hussmann Refrigerator & Supply Company. No. 152,429; Feb. 28.
- Display fixtures and parts thereof, Show-window. Herbert Ryder Co. No. 159,502; Sept. 26.
- Display stands and shelves. H. B. Howe Company. No. 157,684; Aug. 15.
- Dogs, Thoroughbred. R. M. Cleveland. No. 155,945; June 13.
- Dogs, Thoroughbred. L. Wielich. No. 152,084; Feb. 14.
- Doilies. Perlmann, Schal & Stern. No. 161,827; Nov. 21.
- Doilies. Perlmann, Schal & Stern. No. 162,857; Dec. 26.
- Doll. K. H. Rogers. No. 158,524; Sept. 5.
- Doll clothes, Ready-to-make. Reitman Mfg. Co. No. 160,643; Oct. 24.
- Doll heads. McCrosky Bros. No. 158,006; Aug. 22.
- Dolls. Atlas Doll Company. No. 151,074; Jan. 24.
- Dolls. Averill Mfg. Corp. No. 158,382; Sept. 5.
- Dolls. G. F. Berkander. No. 157,001; July 25.
- Dolls. A. Black. No. 152,019; Feb. 14.
- Dolls. George Borgfeldt & Co. No. 151,086; Jan. 24.
- Dolls. George Borgfeldt & Co. Nos. 152,357-8; Feb. 28.
- Dolls. George Borgfeldt & Co. No. 161,920; Nov. 28.
- Dolls. Cosgrove Brothers, Inc. No. 157,914; Aug. 22.
- Dolls. A. M. Eshleman. No. 153,163; Mar. 14.
- Dolls. K. Fisher. No. 153,718; Mar. 28.
- Dolls. C. L. Glosbrenner. No. 152,792; Mar. 7.
- Dolls. J. A. Hayes. No. 159,369; Sept. 26.
- Dolls. N. Jacobsen. Nos. 151,338-9; Jan. 31.
- Dolls. H. R. Larsen. No. 153,226; Mar. 14.
- Dolls. M. M. Levy. No. 160,565; Oct. 24.
- Dolls. Joseph Meer, Inc. No. 160,579; Oct. 24.
- Dolls. Rees Davis Toy Company. No. 158,786; Sept. 12.
- Dolls. H. Sardeau. No. 158,799; Sept. 12.
- Dolls. B. H. Scotford. No. 151,045; Jan. 10.
- Dolls. B. H. Scotford. No. 153,300; Mar. 14.
- Dolls. C. L. Scovil. No. 160,289; Oct. 17.
- Dolls. A. Straus & Co. No. 152,517; Feb. 28.
- Dolls. M. S. Wingert. No. 160,304; Oct. 17.
- Dolls. Wolf Doll Co. No. 159,592; Sept. 26.
- Dolls and certain games. John Martin's House, Inc. No. 152,873; Mar. 7.
- Dolls and doll dresses, Cloth. F. W. Lanning. No. 158,726; Sept. 12.
- Dolls and their parts. Kämmer & Reinhardt, A. G. No. 157,995; Aug. 22.
- Dolls and toy figures. L. M. Davis. No. 160,168; Oct. 17.
- Dolls, Cloth. E. S. Smith. No. 151,358; Jan. 31.
- Dolls, Cut-out. P. Reeves. No. 158,362; Aug. 29.
- Dolls, dolls' clothing and bedding. M. B. Dickinson. Nos. 161,932-3; Nov. 28.
- Dolls, Stocking. United Hosiery Mills Corporation. No. 153,887; Mar. 28.
- Dolls, toy animals, and doll clothes, Washable. C. V. Havens. No. 155,441; May 30.
- Door bolts. John Whittaker & Company. No. 154,421; Apr. 11.
- Doors and shutters, Fire. Merchant & Evans Company. No. 155,340; May 23.
- Doors, Machinery for controlling operation of. H. G. Ainsworth. No. 152,334; Feb. 28.
- Doors, Screen-. B. C. Rockwell. No. 150,542; Jan. 3.
- Doors, Wooden. Palme Lumber Company. No. 155,793; June 6.
- Doubling and twisting frames, Combination. Atwood Machine Company. No. 160,377; Oct. 24.
- Doubling frames. Atwood Machine Company. No. 160,378; Oct. 24.
- Douche, Nasal. W. W. Winberg. No. 161,673; Nov. 14.
- Douches, Vaginal. Sanitant Manufacturing Company. No. 152,983; Mar. 7.
- Doughnuts. National Cream Fried Cake Corporation. No. 159,631; Sept. 26.
- Draft devices for heating apparatus, Automatically electrically-controlled. Philadelphia Steam Heating Co. No. 158,518; Sept. 5.
- Drainage fittings, Certain. Compound Injector & Specialty Co. No. 155,884; June 6.
- Drains and drainage fittings, Certain. Compound Injector & Specialty Co. No. 154,253; Apr. 11.
- Drains and drainage fittings, Certain. Compound Injector & Specialty Co. No. 154,437; Apr. 11.
- Drains, sinks, washboards, etc., Chemical for cleansing. P. W. Drackett & Sons Company. No. 157,669; Aug. 15.
- Draperies. Walton N. Moore Dry Goods Co. No. 154,336; Apr. 11.
- Draperies and upholsteries. Leshner, Whitman & Co. No. 158,028; Aug. 22.
- Drapery and upholstery fabrics, couch covers, and rugs, etc. M. H. Rogers, Inc. No. 162,879; Dec. 26.
- Drapery fabrics, draperies and piece goods, Certain. E. H. Behrens & Co. No. 161,405; Nov. 14.
- Drawers-supporting waists, Children's. Triple P Manufacturing Corporation. No. 161,321; Nov. 7.
- Drawers, Women's closed. A. Heuser. No. 161,165; Nov. 7.
- Drawings and the like, Apparatus for copying. Dreyer & Butz. No. 159,337; Sept. 26.
- Drawing books, Children's. Saml. Gabriel Sons & Company. No. 156,255; June 20.
- Drawing instruments and appliances. M. Winter. No. 153,074; Mar. 7.
- Drawings or pictures, Series or succession of. L. F. Van Zelm. No. 157,599; Aug. 8.
- Dress fabrics and linings, Mohair. Clemminshaw, Levitch & Company. No. 152,133; Feb. 21.
- Dress, negligee, work shirts, and underwear. Madison Mills, Inc. No. 155,338; May 23.
- Dress panels. La Grace Dress Panel Manufacturing Co. No. 159,013; Sept. 19.
- Dress shields. S. Bakal & Son. No. 150,719; Jan. 10.
- Dress shields. E. Benedict Mfg. Co. No. 153,369; Mar. 14.
- Dress shields. Brooklyn Shield & Rubber Co. No. 156,110; June 13.
- Dresses. Nat Goldston & Co. No. 156,872; July 18.
- Dresses. Hellman & Blotta. No. 154,570; Apr. 18.
- Dresses. Lurie Co. No. 162,013; Nov. 28.
- Dresses. Shapero, Lewis & Co. No. 155,830; June 6.
- Dresses. Sunny Maid Dress Company. No. 162,129; Dec. 5.
- Dresses. Jesse Woolf & Co. No. 159,159; Sept. 19.
- Dresses and aprons. Maid-Well Garment Company. No. 154,448; Apr. 11.
- Dresses and aprons. Mandel Brothers. No. 160,235; Oct. 17.
- Dresses and aprons, children's dresses, rompers, and playsuits, etc. Cooper, Coate & Casey Dry Goods Co. No. 157,657; Aug. 15.
- Dresses and aprons, Wash and house. Donnelly Garment Company. No. 155,669; June 6.
- Dresses and aprons, Women's and children's. J. A. Rodifer. No. 154,673; Apr. 18.
- Dresses and cloaks, Ladies' and children's. A. Meyer. No. 159,203; Sept. 19.
- Dresses and dress aprons, and children's rompers, etc., Women's house. E. Gillman. No. 155,967; June 13.
- Dresses and frocks, Women's, misses', and children's. G. Farkas. No. 156,865; July 18.
- Dresses and rompers, Children's. Simple Simon Manufacturing Company. No. 150,968; Jan. 10.
- Dresses and skirts. Domestic Products Co. No. 150,791; Jan. 10.
- Dresses, Children's. Brohman Company. No. 150,265; Jan. 3.
- Dresses, Children's. Brohman Company. No. 157,466; Aug. 8.
- Dresses, Children's. Brohman Company. No. 161,082; Nov. 7.
- Dresses, Children's. Cooper, Coate & Casey Dry Goods Co. No. 156,220; June 20.
- Dresses, Children's. Natalie. No. 161,569; Nov. 14.
- Dresses, Children's. "Peggy Ware" Children's Dress Co. No. 154,657; Apr. 18.
- Dresses, Children's and ladies'. Betty Brown Co. No. 162,951; Dec. 26.
- Dresses, Children's and misses'. L. Borgenich. No. 155,623; June 6.
- Dresses, Children's and misses'. T. S. Cohen. No. 161,100; Nov. 7.

Alphabetical list of trade-marks—Continued.

- Dresses, Children's and misses'. M. Shaw & Co. No. 154,774; May 2.
- Dresses, Children's play. Sohon System. No. 154,703; Apr. 18.
- Dresses, coats, and caps, Children's. Howard I. Branson & Co. No. 158,621; Sept. 12.
- Dresses, coats, cloaks, suits, and evening wraps for women. Copelof, Stillman & Co. No. 157,913; Aug. 22.
- Dresses for ladies and girls. Herman Weiss Co. No. 159,151; Sept. 19.
- Dresses, Girls'. Sears, Roebuck and Co. No. 150,561; Jan. 3.
- Dresses, Girls' and misses'. E. Kessler. No. 155,733; June 6.
- Dresses, house dresses, and aprons, Kitchenette. Kaufman Manufacturing Co. No. 158,712; Sept. 12.
- Dresses, Ladies'. Meyer Cloak & Dress Co. No. 157,150; July 25.
- Dresses, Ladies' and misses'. Baum, Kravat & Baum. No. 155,926; June 13.
- Dresses, Ladies' and misses'. Duke, Abrahams & Paysen, Inc. No. 154,534; Apr. 18.
- Dresses, Ladies' and misses'. Levy Shulman and Co. No. 158,538; Sept. 5.
- Dresses, Ladies' and misses'. Morris Nagel & Co. No. 156,894; July 31.
- Dresses, Ladies', misses', and children's. John Wanamaker, New York. No. 156,936; July 18.
- Dresses, middy blouses. Labinger & Gerstein. No. 155,999; June 13.
- Dresses, middy blouses, shirtwaists, and skirts, Children's. Biberman Brothers, Inc. No. 161,063; Nov. 7.
- Dresses, Misses' and children's. G. F. Van Lopik. No. 161,654; Nov. 14.
- Dresses, Misses' and women's. Marcelle Corporation. No. 158,012; Aug. 22.
- Dresses, negligees, blouses, and chemise. Johnson, Cowdin & Co. No. 154,588; Apr. 18.
- Dresses, petticoats, blouses, etc. Rosebud Mfg. Co. No. 158,077; Aug. 22.
- Dresses, rompers, creepers, and suits, Children's. Rose-nau Bros. Inc. No. 159,077; Sept. 19.
- Dresses, Silk. David H. Lowenthal & Co. No. 157,138; July 25.
- Dresses, skirts, and waists, Cotton. I. Ginsberg & Bros. No. 157,075; July 25.
- Dresses, skirts, middy-blouses, and bloomers, Children's and ladies'. Schreiber & Wallach. No. 154,688; Apr. 18.
- Dresses, skirts, waists, etc., Women's silk. J. A. Migel, Inc. No. 155,770; June 6.
- Dresses, suits, and cloaks, Ladies'. Mitchell Brothers Company. No. 159,954; Oct. 10.
- Dresses, suits, coats, etc., Women's, girls', and misses'. Aarons & Homes. No. 161,034; Nov. 7.
- Dresses, suits, wraps, and fur pieces, Ladies'. Harry Collins, Inc. No. 161,101; Nov. 7.
- Dresses, Tailor-made. Greenwald, Friedman & Co. No. 161,150; Nov. 7.
- Dresses, Women's. J. Foote. No. 161,138; Nov. 7.
- Dresses, Women's. Charles H. D. Robbins Co. No. 157,190; July 25.
- Dresses, Women's and children's. Carlisle Garment Co. No. 158,399; Sept. 5.
- Dresses, Women's and girls'. Friedman Dress Company. No. 157,953; Aug. 22.
- Dresses, Women's house and street. Hannaford Company. No. 158,974; Sept. 19.
- Dressers, chiffonettes, dressing tables, beds, vanity dressers, etc. F. H. Newmaker. No. 151,887; Feb. 14.
- Dressing for leather. A. Overton. No. 155,791; June 6.
- Dressings and dry cleaners used on fabrics, leathers, etc. Venus Arch-Support Company. No. 159,141; Sept. 19.
- Driers. Hamler Boller & Tank Company. No. 152,593; Feb. 28.
- Dry crystals for general cleansing and washing. D. F. Lauro. No. 162,530; Dec. 19.
- Drying apparatus for manufacturing and industrial operations. Air-current. Andrews & Goodrich, Inc. No. 159,257; Sept. 26.
- Drying machines, also known as hydroextractors, Centrifugal. Tolhurst Machine Works. No. 153,116; Aug. 22.
- Drill bits, reamers, oil-well fishing tools, etc., Rotary. Reed Roller Bit Co. No. 159,491; Sept. 26.
- Drilling machines, drills and other machines. Foote-Burt Company. No. 161,773; Nov. 21.
- Drilling machinery, Metal. Cincinnati-Bickford Tool Company. No. 157,615; Aug. 8.
- Drilling, reaming, and tapping machines. National Automatic Tool Company. No. 155,264; May 23.
- Drills, Electric hand. Knight Engineering & Sales Co. No. 153,221; Mar. 14.
- Drills, Electric portable. Jones, MacNeal and Camp. No. 152,840; Mar. 7.
- Drills, planers, grinders, etc., Pneumatic. Turbine Air Tool Company. No. 150,988; Jan. 10.
- Drills, reamers, end mills, and slitting saws. Fastfeed Drill & Tool Corporation. No. 156,514; June 27.
- Drills, Twist. Detroit Twist Drill Company. No. 151,115; Jan. 24.
- Drink, Malt soft. S. Liebmanns Sons. No. 159,414; Sept. 26.
- Drink mixers. J. M. Schaedler. No. 153,848; Mar. 28.
- Drinks and fountain sirups, Nonalcoholic, maltless carbonated soft. Horn Company. No. 151,333; Jan. 31.
- Drinks and sirups and extracts therefor, Maltless fountain. McCormick & Co. No. 155,001; May 16.
- Drinks and sirups, Carbonated soft. H. P. Hood & Sons, Inc. No. 157,979; Aug. 22.
- Drinks and sirups for making same, Maltless soft. K. Antonsen. No. 159,258; Sept. 26.
- Drinks and sirups therefor, Soft carbonated, Beacon Chocolate Company. Nos. 154,876-7; May 16.
- Drinks, Certain soft. Bellaire Beverage Co. No. 150,666; Jan. 3.
- Drinks, Certain soft. Wawbeek Spring Water Co. No. 152,542; Feb. 28.
- Drinks, Maltless soft. Carse & Ohlweiler Co. No. 153,133; Mar. 14.
- Drinks, Nonalcoholic, maltless, soft, San Francisco Breweries Ltd. No. 162,359; Dec. 12.
- Duck, Bleached cotton. Turner, Halsey Co. No. 158,166; Aug. 22.
- Duck, canvas, and drilling piece goods. Unity Cotton Mills. No. 153,040; Mar. 7.
- Duck, Cotton. John Boyle & Company. No. 161,078; Nov. 7.
- Duck, Cotton. John Dunn, Son & Co. No. 150,794; Jan. 10.
- Duck decoys. P. A. Sperry. No. 162,991; Dec. 26.
- Duck in the piece, Cotton. W. E. Stetson. No. 150,979; Jan. 10.
- Ducks, Live and dressed. Farmers' Commission House Inc. No. 151,754; Feb. 14.
- Duplicating machines and attachments therefor. J. B. Hurwitz. No. 152,830; Mar. 7.
- Duplicator rolls and lead pencils. Walsh Duplicator Corporation. No. 155,111; May 16.
- Dust cloths, Treated. W. H. Valiant. No. 162,398; Dec. 12.
- Dusters. Rubon Wood Finishing and Products Co. No. 154,142; Apr. 4.
- Dusters, Feather. Hayes Duster & Brush Co. No. 151,162; Jan. 24.
- Dusters, Unimpregnated. Keystone Sanitary Supply Company. No. 154,794; May 9.
- Dusters, Wool. Well-Ransom Co. No. 162,405; Dec. 12.
- Dye and dyestuffs. Grasselli Chemical Company. Nos. 156,270-1; June 20.
- Dye, Hair. Perfecto Chemical Co. No. 156,390; June 20.
- Dye, Hat. G. H. Capen. No. 156,199; June 20.
- Dyeing coloring, and tinting compositions. R. P. Dicks. No. 150,333; Jan. 3.
- Dyes. L. L. Briden & Co. No. 159,666; Oct. 3.
- Dyes. L. L. Briden & Co. No. 159,814; Oct. 10.
- Dyes. L. L. Briden & Co. No. 161,080; Nov. 7.
- Dyes. T. S. Todd & Co. No. 153,624; Mar. 21.
- Dyes. Tower Manufacturing Co. No. 155,358; May 23.
- Dyes. White Tar Company. No. 152,296; Feb. 21.
- Dyes. George D. Wright Corporation. No. 158,324; Aug. 29.
- Dyes and dyestuffs. Grasselli Chemical Company. Nos. 150,385-91; Jan. 3.
- Dyes and dyestuffs. Grasselli Chemical Company. Nos. 153,732-3; Mar. 28.
- Dyes and dyestuffs. Grasselli Chemical Company. Nos. 155,431-3; May 30.
- Dyes and dyestuffs. Grasselli Chemical Co. Nos. 156,273-5; June 20.
- Dyes and dyestuffs. Grasselli Chemical Company. Nos. 156,277-9; June 20.
- Dyes and dyestuffs. Grasselli Chemical Company. No. 158,449; Sept. 5.
- Dyes and dyestuffs. H. A. Metz. No. 160,923; Oct. 31.
- Dyes and dyestuffs, photographic chemicals, etc. Grasselli Chemical Company. No. 156,269; June 20.
- Dyes, Cloth. Angel Dainty Dye Co. No. 153,648; Mar. 28.
- Dyes, Cloth. Fairy Dye Co. No. 151,470; Feb. 7.
- Dyes, Direct color. Heller & Merz Company. No. 158,579; Sept. 5.
- Dyes, dyestuffs, and colors. National Aniline & Chemical Company. Nos. 151,553-8; Feb. 7.
- Dyes, dyestuffs, and colors. National Aniline & Chemical Company. No. 160,928; Oct. 31.
- Dyes, dyestuffs, and colors. National Aniline & Chemical Company. No. 161,242; Nov. 7.
- Dyes or colors. Färberei Glaucha, vormals Otto Seyfert. No. 21,842; renewed Oct. 4, 1922.
- Dyes, Union and acid. H. Kohnstamm & Co. No. 158,473; Sept. 5.
- Dyestuff intermediates. E. I. du Pont de Nemours & Company. No. 152,156; Feb. 21.
- Dyestuff intermediates. E. I. du Pont de Nemours & Company. No. 153,705; Mar. 28.
- Dyestuffs. Geigy Company Inc. No. 151,486; Feb. 7.
- Dyestuffs. Jennings & Company. No. 158,995; Sept. 19.
- Dyestuffs. Southern Dyestuffs Company. No. 161,302; Nov. 7.
- Dyestuffs and beeswax. Caravel Company. No. 155,943; June 13.
- Dyestuffs, Certified food colors, and intermediates. National Aniline & Chemical Company. No. 150,489; Jan. 3.
- Dyestuffs, Coal-tar. National Aniline & Chemical Company. No. 153,804; Mar. 28.

Alphabetical list of trade-marks—Continued.

- Dyestuffs, Coal-tar. National Aniline & Chemical Company. No. 156,488; June 20.
- Dynamite. E. I. du Pont de Nemours & Company. No. 155,408; May 30.
- Dynamite and permissible explosives. Union Explosives Co. No. 153,036; Mar. 7.
- Ear cone. George C. Klippert Chemical Co. No. 154,988; May 16.
- Eaves-trough hangers, conductor hooks and fasteners. L. D. Berger. No. 161,408; Nov. 14.
- Egg candlers. W. L. Morris. No. 155,263; May 23.
- Egg carriers and cases, egg-case fillers and fruit carriers. H. Weis. No. 21,047; renewed Apr. 26, 1922.
- Egg-case fillers. Creamery Package Mfg. Company. No. 158,926; Sept. 19.
- Egg composition for making candy. L. Demartini Supply Co. No. 154,526; Apr. 18.
- Egg crates. T. C. Wentworth. No. 163,001; Dec. 26.
- Egg, meringue powder, pie filling, Dried. Economy Food Products Company. No. 156,660; July 11.
- Egg preserver, Water-glass. Rutland Fire Clay Co. No. 155,813; June 6.
- Egg preserver, Water-glass. Rutland Fire Clay Co. No. 161,831; Nov. 21.
- Egg-preserving compound. Figaro Chemical Co. No. 152,165; Feb. 21.
- Egg-preserving compounds. Triangle Manufacturing Co. No. 161,320; Nov. 7.
- Egg production of laying hens, Stimulant to increase the. In-Cre-So Company. No. 155,455; May 30.
- Eggs. Guaranty Egg Corporation. No. 159,890; Oct. 10.
- Eggs. Poultry Producers of Central California, Inc. No. 158,582; Sept. 5.
- Eggs. A. T. Thibodeau Company. No. 159,553; Sept. 26.
- Eggs. W. C. Will. No. 150,648; Jan. 3.
- Eggs and live chickens. A. Brush, Jr. No. 153,128; Mar. 14.
- Eggs, egg yolk, and egg albumen, Dehydrated whole. Brown, Young & Co. No. 159,822; Oct. 10.
- Eggs, egg yolk, and egg albumen, Dehydrated whole. Joe Lowe Co. No. 159,934; Oct. 10.
- Eggs, Grease for preserving or keeping. P. Mason. No. 162,167; Dec. 5.
- Eggs, live and dressed poultry. Whitney Poultry Farm, Inc. No. 159,649; Sept. 26.
- Ejectors, Liquid. R. F. Gervells. No. 153,729; Mar. 28.
- Elastic. William T. Palmer & Company. No. 157,737; Aug. 15.
- Electric-appliance time controller. Steroelectric Company. No. 159,543; Sept. 26.
- Electric circuits, Automatic make-and-break mechanisms for. Baker R. & L. Company. No. 155,137; May 16.
- Electric-current detector. Am-O-Meter Company. No. 156,988; July 25.
- Electric fixtures. Hemco Electric Manufacturing Company. Nos. 156,684-5; July 18.
- Electric fixtures, Certain. Eclipse Light Company. No. 156,592; July 4.
- Electric generating plants. Home Electric Lighting Company. No. 151,508; Feb. 7.
- Electric generator apparatus, Self-contained. Columbian Bronze Corporation. No. 158,414; Sept. 5.
- Electric generators, motors, welders, transformers, and parts for such electric apparatus. Burke Electric Company. No. 153,919; Mar. 28.
- Electric highway-crossing signals. Bryant Zinc Company. No. 151,438; Feb. 7.
- Electric hot-air baths and douches and electrical massage devices. Elektrizitätsgesellschaft Sanitas mit beschränkter Haftung. No. 158,657; Sept. 12.
- Electric household appliances, Certain. George Borgfeldt & Co. No. 158,391; Sept. 5.
- Electric ironers. Domestic Manufacturing Co. No. 150,335; Jan. 3.
- Electric light and power plants of a portable type. Consolidated Utilities Corporation. No. 150,779; Jan. 10.
- Electric-light fixture. J. W. Hancock. No. 160,888; Oct. 31.
- Electric-light fixtures. General Electric Company. No. 151,488; Feb. 7.
- Electric-light fixtures. J. G. Wilson Corporation. No. 153,954; Mar. 28.
- Electric-lighting fixtures. G. R. Ainsworth. No. 156,607; July 11.
- Electric-lighting fixtures. Art Craft Fixture Co. No. 152,668; Mar. 7.
- Electric-lighting fixtures. St. Louis Brass Mfg. Co. No. 158,548; Sept. 5.
- Electric-lighting fixtures and furniture. R. Williamson & Company. No. 162,415; Dec. 12.
- Electric-lighting fixtures and lamps, electroluifers. Caldwell Electric Corporation. No. 152,699; Mar. 7.
- Electric-lighting fixtures and parts. S. Sharlin. No. 158,536; Sept. 5.
- Electric-lighting fixtures, Certain portable. H. G. McFaddin. No. 151,538; Feb. 7.
- Electric lighting fixtures, sadrigns, and batteries. R. J. Byington. No. 151,441; Feb. 7.
- Electric-lighting plants, Unitary. S. W. Merritt & Co. No. 151,545; Feb. 7.
- Electric-lighting sets for Christmas trees. Peerless Light Company. No. 158,517; Sept. 5.
- Electric lights and dry batteries, Portable. National Carbon Company. No. 156,599; July 4.
- Electrical machines and apparatus for Röntgen and electromedical purposes and parts thereof. Electricitätsgesellschaft "Sanitas" mit beschränkter Haftung. No. 162,734; Dec. 26.
- Electric motors. Birtman Electric Company. No. 151,431; Feb. 7.
- Electric motors. Racine Electric Co. No. 158,520; Sept. 5.
- Electric motors and parts thereof, short circuiters, etc. Master Electric Company. No. 156,704; July 11.
- Electric motors, dynamos, and generators, rotary converters, etc. Mechanical Appliance Company. No. 162,307; Dec. 12.
- Electric motors, dynamos, etc. Mechanical Appliance Company. No. 150,689; Jan. 3.
- Electric motors, generators, dynamotors, and motor generators. Electric Specialty Co. No. 162,243; Dec. 12.
- Electric omnibuses or passenger vehicles. Atlas Truck Corporation. No. 152,016; Feb. 14.
- Electric plugs, caps, and receptacles. Harvey Hubbell Incorporated. No. 157,418; Aug. 1.
- Electric power-generating units. Lincoln Light Corporation. No. 156,700; July 11.
- Electric safety switches. Trumbull-Vanderpool Electric Manufacturing Co. No. 156,603; July 4.
- Electric signal holders and traffic signal devices. A. R. Fergusson. No. 155,688; June 6.
- Electric sockets. M. Propp Co. No. 156,737; July 11.
- Electric spark energizer. B. Shapleigh. No. 156,624; July 11.
- Electric spot lights. Charles Kaufman & Sons. No. 155,731; June 6.
- Electric storage batteries, and storage-battery parts. Compo Battery Company. No. 155,651; June 6.
- Electric storage batteries, Water for use in. Charles E. Hires Company. No. 154,052; Apr. 4.
- Electric switchboards, electric panel boxes, and electric safety switches. Krantz Manufacturing Company Inc. No. 153,933; Mar. 28.
- Electric switching devices. Cheatham Electric Switching Device Co. No. 160,088; Oct. 10.
- Electric switches and certain circuit breakers. Cutter Electrical and Manufacturing Company. No. 150,785; Jan. 10.
- Electric vacuum cleaners and parts thereof. Electric Vacuum Cleaner Company. No. 162,244; Dec. 12.
- Electric wires, Asbestos-insulated. General Electric Company. No. 151,487; Feb. 7.
- Electrical apparatus, Connecticut Telephone & Electric Company. No. 157,411; Aug. 1.
- Electrical apparatus. Dayton Pump & Manufacturing Company. No. 156,797; July 11.
- Electrical apparatus. G. M. Grey Mfg. Co. No. 150,829; Jan. 10.
- Electrical apparatus. Universal Battery Company. No. 158,311; Aug. 29.
- Electrical apparatus and fixtures. Pacific States Electric Co. No. 162,334; Dec. 12.
- Electrical apparatus and supplies. Best Electric Corporation. No. 161,349; Nov. 7.
- Electrical apparatus, Certain. A-C Electrical Manufacturing Company. No. 161,007; Oct. 31.
- Electrical apparatus, Certain. Anthony Company. No. 152,563; Feb. 28.
- Electrical apparatus, Certain. J. A. Crabtree & Co. No. 156,652; July 11.
- Electrical apparatus, Certain. Dayton Pump & Manufacturing Company. No. 158,422; Sept. 5.
- Electrical apparatus, Certain. Delta-Star Electric Company. No. 158,423; Sept. 5.
- Electrical apparatus, Certain. Gamewell Fire Alarm Telegraph Company. No. 155,690; June 6.
- Electrical apparatus, Certain. Gebrüder Siemens & Company. No. 158,444; Sept. 5.
- Electrical apparatus, Certain. John Firth & Co. No. 156,671; July 11.
- Electrical apparatus, Certain. Magnavox Co. No. 153,238; Mar. 14.
- Electrical apparatus, Certain. Metropolitan-Vickers Electrical Company Ltd. No. 156,706; July 11.
- Electrical devices, Certain. National Stamping & Electric Works. No. 158,508; Sept. 5.
- Electrical apparatus, Certain. Robert Bosch Aktiengesellschaft. No. 161,390; Nov. 14.
- Electrical apparatus, Certain. S. Schmukler & Son. No. 156,745; July 11.
- Electrical apparatus, Certain. Takamine Commercial Corporation. No. 155,846; June 6.
- Electrical apparatus, Certain. Ward Leonard Electric Company. No. 161,030; Oct. 31.
- Electrical apparatus, Certain named. Mead Electric Signal Company. No. 162,306; Dec. 12.
- Electrical apparatus for motor vehicles, Certain. Clayton-Wright, Ltd. No. 152,724; Mar. 7.
- Electrical apparatus, machines, and supplies, Certain. Fiat. No. 160,861; Oct. 31.
- Electrical apparatus, machines, and supplies, Certain. Power Supply Company. No. 160,942; Oct. 31.
- Electrical apparatus, machines, and supplies, Certain. Ship Owners Radio Service, Inc. No. 161,622; Nov. 14.
- Electrical apparatus, machines, and supplies, Certain. Western Electric Company. No. 160,999; Oct. 31.
- Electrical blowers. American Blower Company. No. 155,595; June 6.

Alphabetical list of trade-marks—Continued.

- Electrical box connectors. Tubular Woven Fabric Company. No. 160,987; Oct. 31.
- Electrical cables and coils. Insulating varnish and material for impregnating and filling. Sherwin-Williams Company. No. 153,303; Mar. 14.
- Electrical circuit testers. A. B. Christopher. No. 160,150; Oct. 17.
- Electrical controlling devices. Allen-Bradley Company. No. 151,417; Feb. 7.
- Electrical controlling devices. Allen-Bradley Company. No. 160,820; Oct. 31.
- Electrical devices, Certain. Coto-Coil Company. No. 155,655; June 6.
- Electrical devices, Certain. Electric Manufacturing Company. No. 151,467; Feb. 7.
- Electrical devices, Certain. Tucker Electrical Construction Company. No. 155,851; June 6.
- Electrical equipment, Certain marine. Arnessen Electric Co. No. 155,600; June 6.
- Electrical generators. A. Jemielita. No. 160,894; Oct. 31.
- Electrical ignition coils and condensers. Security Manufacturing Company. No. 155,826; June 6.
- Electrical lighting fixtures and supplies. J. Rabinovitz. No. 156,740; July 11.
- Electrical plugs, attachment plugs, caps, etc. Magnus Electric Co. No. 158,491; Sept. 5.
- Electrical plugs, rosettes, receptacles, and sockets. Ajax Electric Specialty Company. No. 152,651; Mar. 7.
- Electrical rectifiers and rheostats. Automatic Electrical Devices Company. No. 161,009; Oct. 31.
- Electrical supplies, Certain. Reliable Electric Company. No. 156,601; July 4.
- Electrical switchboards. Automatic Electrical Devices Company. No. 152,048; Feb. 14.
- Electrical switches. Monitor Controller Company. No. 158,496; Sept. 5.
- Electrical switches and pull sockets. Hart & Hegeman Manufacturing Company. Nos. 161,497-8; Nov. 14.
- Electrical testing devices. Testall Electric Manufacturing Co. No. 150,983; Jan. 10.
- Electrical vacuum tubes and valves. Radio Corporation of America. Nos. 160,947-8; Jan. 10.
- Electrical vacuum tubes and valves. Radio Corporation of America. Nos. 160,947-8; Oct. 31.
- Electrical warning signals. E. A. Laboratories, Inc. No. 158,477; Sept. 5.
- Electrical wire conduits, tubing for. Eastern Tube & Tool Company. No. 152,753; Mar. 7.
- Electrical wires, covered or uncovered, and rail bonds. American Steel & Wire Company of New Jersey. No. 155,598; June 6.
- Electrical wiring devices, Cover plates for. Bryant Electric Company. No. 155,628; June 6.
- Electrically-driven beating and mixing machines. Hobart Manufacturing Company. No. 152,822; Mar. 7.
- Electrically-driven tools, electric motors and generators, etc. Portable. Louisville Electric Manufacturing Company. No. 151,533; Feb. 7.
- Electrically-heated articles, Certain. H. S. Spencer. No. 153,005; Mar. 7.
- Electrodes. Wappler Electric Co. No. 163,000; Dec. 26.
- Electrodes for electric furnaces and electrolyte operations. National Carbon Company. No. 151,559; Feb. 7.
- Electrolyte compound. Harris-Stephenson. No. 158,230; Aug. 29.
- Electrolyte compound for batteries. Electrogene Chemical Co. No. 157,935; Aug. 22.
- Electrolytes. Kirkhart Electrical Co. No. 159,713; Oct. 3.
- Electromedical apparatus. Bleadon-Dun Company. No. 152,690; Mar. 7.
- Electromedical apparatus, Certain. G. S. White. No. 153,352; Mar. 14.
- Electroplating machines. A. P. Munning & Co. No. 161,022; Oct. 31.
- Electrotypes. R. M. Eisenberg. No. 154,785; May 9.
- Electrotypes. Royal Electrotpe Company. No. 160,004; Oct. 10.
- Electrotypes for printing. Advance Electrotpe Company. No. 159,793; Oct. 10.
- Elevator-door closers. Norton Door Closer Co. No. 155,905; June 6.
- Elixir and suppository. Colton & Collins, Inc. No. 156,214; June 20.
- Elixir rhubarb alkaline with pancreatin. Ohio Valley Drug Company. No. 151,894; Feb. 14.
- Embalming fluid. C. H. Easterday. No. 153,710; Mar. 28.
- Embalming fluid. Master Chemical Co. No. 161,227; Nov. 7.
- Embalming fluid. C. M. Morgan. No. 157,366; Aug. 1.
- Embalming fluid. Undertakers Supply Company. No. 158,124; Aug. 22.
- Embalming fluid, Arterial and cavity. Undertakers Fluid Co. No. 150,630; Jan. 3.
- Emblems, Masonic and other society. Sinnock & Sherrill. No. 20,250; renewed Oct. 20, 1921.
- Embossing leaf. Boston Last Co. No. 153,667; Mar. 28.
- Embrocations. Mucine Products Company. No. 158,033; Aug. 22.
- Embroideries or embroidered articles. Rechsteiner Embroidery Company. No. 155,511; May 30.
- Embroidery stampings. Voco Sales Co. No. 155,855; June 6.
- Emulsion. Zagat Inc. Nos. 155,877-8; June 6.
- Emulsion for influenza, palliative for venereal diseases, etc. A. Flores. No. 150,362; Jan. 3.
- Enamel. American Enamel Company. No. 158,593; Sept. 12.
- Enamel and paint preparations. Williams-Hayward Company. No. 158,863; Sept. 12.
- Enamel, Liquid nail. G. N. Eriksen. No. 156,239; June 20.
- Enamels, Automobile. O'Brien Varnish Company. No. 152,910; Mar. 7.
- Engine and machine bearings and bushings. Bound Brook Oil-Less Bearing Company. No. 155,933; June 13.
- Engines, air compressors, and air compressing and receiving outfits. De La Vergne Machine Company. No. 157,044; July 25.
- Engines and cream-separating machines. Internal-combustion. Associated Manufacturers Company. No. 156,832; July 18.
- Engines and gas-engine parts. Gas. Joseph Reid Gas Engine Company. No. 162,874; Dec. 26.
- Engines and machinery, Tools and parts of internal-combustion. Harley-Davidson Motor Co. No. 153,930; Mar. 28.
- Engines and motors. Internal-combustion. Lycoming Motors Corporation. No. 161,892; Nov. 21.
- Engines and oil-well tools and equipment. Gas. Union Tool Company. No. 157,229; July 25.
- Engines and parts thereof and certain accessories therefor. Knox Motors Company. No. 157,121; July 25.
- Engines, and parts thereof. Internal-combustion. Pierce-Arrow Motor Car Company. No. 157,174; July 25.
- Engines and parts thereof. Valves for gas. Steel Products Manufacturing Company. No. 161,842; Nov. 21.
- Engines, Automatic fuel-feed regulators for internal-combustion. Auto Electric Air Feed, Inc. No. 162,029; Dec. 5.
- Engines, Certain ignition devices for internal-combustion. Blarette Manufacturing Co. No. 150,738; Jan. 10.
- Engines, Certain jointings and packings for. Kenilworth Manufacturing Co. No. 160,548; Oct. 24.
- Engines, Compound for sealing leaks in radiators of gas. Atkinson Drug Co. No. 152,117; Feb. 21.
- Engines, Compound for sealing unions and joints in. Permatex Company. No. 161,375; Nov. 7.
- Engines, Explosive. Yellow Jacket Manufacturing Company. No. 156,792; July 11.
- Engines, Fuel for internal-combustion. Pennsylvania Synthetic Gas & Chemical Company. No. 159,636; Sept. 26.
- Engines, Fuel vaporizers for internal-combustion. Turbulator Corporation. No. 161,651; Nov. 14.
- Engines, Gasoline and hand-car. Fairmont Gas Engine & Railway Motor Car Co. No. 158,214; Aug. 29.
- Engines, Ignition circuit breakers for internal-combustion. B. G. Gerbig. No. 160,094; Oct. 10.
- Engines, Ignition timers for explosion. Anderson Company. No. 156,613; July 11.
- Engines, Internal-combustion. Fox Motor Car Company. No. 156,674; July 11.
- Engines, Internal-combustion. San Antonio Machine & Supply Company. No. 150,961; Jan. 10.
- Engines, Internal-combustion. Willys-Overland Company. No. 156,083; June 13.
- Engines, Liquid compound for eliminating carbon and increasing power in gas. L. L. Reilly. No. 150,533; Jan. 3.
- Engines, Piston pins and valves of internal-combustion. G. Barris. No. 150,725; Jan. 10.
- Engines, Reserve providers for gasoline, etc., tanks of internal-combustion. Automobile Appliance Company. No. 150,230; Jan. 3.
- Engines, Spark timers for internal-combustion. M. Mallory. No. 161,894; Nov. 21.
- Engines, Steam. Soule Steam Feed Works. No. 161,839; Nov. 21.
- Engines, Steam. Union Tool Company. No. 161,991; Nov. 28.
- Engines, Timers for internal-combustion. H. D. Lafferty. No. 152,852; Mar. 7.
- Engines, Timers for internal-combustion. U & J Carburetor Company. No. 158,551; Sept. 5.
- Engines, Vapor-mixing device for internal-combustion. E. C. Mettler Co. No. 156,707; July 11.
- Engines, Water circulator for internal combustion. S & G Manufacturing Company. No. 152,499; Feb. 28.
- Envelope machines. F. L. Smithe Machine Company. No. 152,506; Feb. 28.
- Envelopes. Tension Envelope Company. No. 152,519; Feb. 28.
- Envelopes. United States Envelope Company. No. 158,127; Aug. 22.
- Envelopes. United States Envelope Company. No. 160,701; Oct. 24.
- Envelopes and mailing containers. Letalog Mailer Co. No. 150,878; Jan. 10.
- Envelopes and making paper boxes, Machinery for pasting and folding. Lester & Wasley. No. 22,074; renewed Nov. 29, 1922.
- Envelopes and wrappers, Mailing. D. L. Baxter. No. 155,203; May 23.

- Envelopes, cards, blank books, and paper badges. Boling A. Johnson. No. 21,601; renewed Aug. 9, 1922.
- Envelopes, Correspondence. Coast Envelope Company. No. 154,001; Apr. 4.
- Envelopes, file folders, and file pockets. Both filing and mailing. J. W. Fitzgerald. No. 150,354; Jan. 3.
- Envelopes, file folders, file pockets. J. W. Fitzgerald. No. 158,217; Aug. 29.
- Envelopes for mailing articles and for correspondence. Duplex Envelope Company. No. 155,149; May 16.
- Envelopes, Merchandise. A. Herz. No. 151,329; Jan. 31.
- Envelopes, Merchandise. A. Herz. No. 154,049; Apr. 4.
- Epilepsy, Preparation specific for. J. E. Stanton. No. 155,536; May 30.
- Epsom and Rochelle salts, bicarbonate of soda, etc. Zagat Inc. No. 155,876; June 6.
- Equestrian equipments. Perkins-Campbell Company. No. 160,268; Oct. 17.
- Erasers for artists' use, Composition. F. D. Mayer Manufacturing Co. No. 151,192; Jan. 24.
- Erasers, Rubber. Joseph Dixon Crucible Company. No. 154,933; May 16.
- Ethyl esters of chaulmoogra oil. Winthrop Chemical Company. No. 155,565; May 30.
- Excelsior and excelsior products. Excelsior Wrapper Company. No. 161,132; Nov. 7.
- Excelsior, excelsior products. Excelsior Wrapper Company. No. 157,057; July 25.
- Exercisers. Abdominal Couch Company. No. 152,649; Mar. 7.
- Expansion tanks and heating systems. American Radiator Company. No. 153,097; Mar. 14.
- Explosive substances, projectiles, ammunition. Tetralin Gesellschaft mit beschränkter Haftung. No. 152,283; Feb. 21.
- Explosives, blasting powder, fuses, etc. Aktiengesellschaft Lignose. No. 157,847; Aug. 22.
- Explosives, High. E. I. du Pont de Nemours & Company. No. 157,931; Aug. 22.
- Exterminating fluids and disinfectants. Uncle Sam Chemical Co. No. 158,840; Sept. 12.
- Extract, Food-flavoring. Mystol Manufacturing Co. No. 154,800; May 9.
- Extract of wood for tanning purposes. Ernesto Tornquist & Co. Limitada. No. 155,542; May 30.
- Extract of wood for tanning purposes. Ernesto Tornquist & Co. Limitada. No. 155,849; June 6.
- Extract of yeast. Merck & Co. No. 153,797; Mar. 28.
- Extracting elevators, dental surgical currettes, etc. H. Friedman. No. 162,754; Dec. 26.
- Extracts and sirups for making beverages. H. A. Johnson Co. No. 152,602; Feb. 28.
- Extracts, colors, and flavors for soft drinks. R. Heinrichshofen. No. 156,876; July 18.
- Extracts, essences, and prepared sirups used in drink. A. Whittaker. No. 151,006; Jan. 10.
- Extracts, Liquid food-flavoring. J. B. McComb. No. 161,539; Nov. 14.
- Extracts to be used for beverage purposes. Schrumm-Schrumm Co. No. 158,084; Aug. 22.
- Eyelet punches. Wm. Schollhorn Co. No. 156,050; June 13.
- Eye lotion. Sassafras Eye Lotion Co. No. 20,890; renewed Mar. 22, 1922.
- Eye medicine. H. Darvas. No. 152,736; Mar. 7.
- Eye medicine. S. Urban. No. 151,989; Feb. 14.
- Eye medicine. A. L. Vickery. No. 161,334; Nov. 7.
- Eye shields and protectors. Chicago Eye Shield Company. No. 152,714; Mar. 7.
- Eye-testing instruments. H. L. De Zeng. No. 150,78; Jan. 10.
- Eye tonic. K. J. Muszynski. No. 158,035; Aug. 22.
- Eyeglass bridges, temple frames, and mountings. F. A. Hardy & Company. No. 154,289; Apr. 11.
- Eyeglass bridges, temple frames, and mountings. F. A. Hardy & Company. No. 162,772; Dec. 26.
- Eyeglass bridges, temple frames, mountings. F. A. Hardy & Company. No. 155,975; June 13.
- Eyeglass frames and mountings. F. A. Hardy & Company. No. 152,594; Feb. 28.
- Eyeglass frames and mountings. F. A. Hardy & Company. No. 154,288; Apr. 11.
- Eyeglass mountings. F. A. Hardy & Company. No. 152,596; Feb. 28.
- Eyeglass mountings, Finger-piece. F. A. Hardy & Company. No. 154,961; May 16.
- Eyeglasses. E. B. Meyrowitz, Inc. No. 159,438; Sept. 26.
- Eyeglasses. J. Robinson, Cohen & Bro. No. 156,144; June 13.
- Eyeglasses and spectacles for athletic purposes. M. H. Harris. No. 158,229; Aug. 29.
- Eyeglasses, spectacles, and goggles. Gotham Optical Co. No. 153,223; Aug. 29.
- Eyeglasses, temples, and eyeglass bridges and nose pieces for same. B. A. Keller. No. 155,247; May 23.
- Eyewater. W. A. Morgan. No. 155,763; June 6.
- Eyewater. E. E. Slaughter. No. 151,948; Feb. 14.
- Fabric, brake, and transmission lining. United States Asbestos Company. No. 160,034; Oct. 10.
- Fabric for wearing apparel, Open or net work. L. Haslam. No. 20,152; renewed Sept. 22, 1921.
- Fabric Imitating silk, Fiber. A. Theo. Abbott & Co. No. 155,185; May 23.
- Fabric in the piece, Pile. Sidney Blumenthal & Co. No. 151,681; Feb. 14.
- Fabrics. St. John Brothers Co. No. 159,767; Oct. 3.
- Fabrics after washing, Compound for treating. Savem Economy Products Co. No. 153,847; Mar. 28.
- Fabrics, Air and water tight acid and heat resistant. E. I. du Pont de Nemours & Company. No. 154,015; Apr. 4.
- Fabrics and ribbons in the piece. Witt-Gross Co. Incorporated. Nos. 154,743-4; Apr. 18.
- Fabrics, Apparel. Marshall Field & Company. No. 150,894; Jan. 10.
- Fabrics, Certain textile. John Boyle & Company. No. 150,746; Jan. 10.
- Fabrics, Certain textile shoe. A. Herzog. No. 155,980; June 13.
- Fabrics, Cotton. S. Eisenberg & Sons. No. 153,158; Mar. 14.
- Fabrics, Cotton. Seaboard Textile Co. No. 153,526; Mar. 21.
- Fabrics, Curtain. Loveman Brothers. No. 154,314; Apr. 11.
- Fabrics, Dress. Aberfoyle Mfg. Co. No. 154,211; Apr. 11.
- Fabrics in the piece for use in making corsets. M. Israel. No. 155,458; May 30.
- Fabrics in the piece, Pile. Amertex Mills, Inc. No. 158,598; Sept. 12.
- Fabrics in the piece, Pile. Sidney Blumenthal & Co. Nos. 150,739-40; Jan. 10.
- Fabrics in the piece, Pile. Sidney Blumenthal & Co. Nos. 152,306-7; Feb. 21.
- Fabrics in the piece, Pile. Sidney Blumenthal & Co. Nos. 156,103-8; June 13.
- Fabrics in the piece, Pile. Sidney Blumenthal & Co. Nos. 156,187-9; June 20.
- Fabrics in the piece, Pile. Sidney Blumenthal & Co. No. 156,419; June 20.
- Fabrics in the piece, Pile. Sidney Blumenthal & Co. Nos. 158,089-93; Aug. 22.
- Fabrics in the piece, Pile. Sidney Blumenthal & Co. No. 161,069; Nov. 7.
- Fabrics in the piece, Pile. Sidney Blumenthal & Co. No. 161,416; Nov. 14.
- Fabrics, Printed, pressed, ornamented or decorated, etc. Societe Industrielle d'Impressions et de Tissus d'Art. No. 160,672; Oct. 24.
- Fabrics, Textile. Banner Silk Knitting Mills. No. 152,345; Feb. 28.
- Fabrics used as foundation material for art needlework. Bernhard Ulmann Co. No. 153,553; Mar. 21.
- Fabrics, Worsted and woolen textile. Holden-Leonard Company. No. 152,427; Feb. 28.
- Face astringent and skin tightener. Harriet Hubbard Ayer. No. 150,235; Jan. 3.
- Face bleach, building astringent, powder used as a foot ease, rouge, etc. A. Thompson. No. 157,305; Aug. 1.
- Fan-pulley pins. R. J. Looock. No. 153,782; Mar. 28.
- Fans and heaters, Electric. Graff, Washbourne & Dunn. No. 151,493; Feb. 7.
- Fans, Centrifugal. B. F. Sturtevant Company. No. 155,096; May 16.
- Fans, Centrifugal. B. F. Sturtevant Company. No. 156,762; July 11.
- Fans, Electric motor-driven. B. F. Perkins & Son, Inc. No. 153,275; Mar. 14.
- Fans for personal use. Ovington Bros. Company. No. 155,792; June 6.
- Fans, Hand. Stickless Fan Co. No. 161,908; Nov. 21.
- Fans, Hand fire. R. C. Sturgis. No. 162,905; Dec. 26.
- Fans, Rotary. American Aero Company. No. 156,157; June 20.
- Farriers' and cobblers' tools. Champion Tool Company. No. 161,435; Nov. 14.
- Farriers' tools. Champion Tool Company. No. 161,434; Nov. 14.
- Fasteners, Metallic. Upson Company. No. 151,616; Feb. 7.
- Fat salad and cooking oils, Pure. E. Klein. No. 160,899; Oct. 31.
- Fats, Cooking. Procter and Gamble Company. No. 150,524; Jan. 3.
- Fats, Cooking. Procter and Gamble Company. No. 156,736; July 11.
- Fats, Substitute for fowl. A. Proser. No. 150,526; Jan. 3.
- Fattening compound for animals, Medicinal. Hegewisch Chemical Works. No. 156,290; June 20.
- Fatty oleaginous or unctuous food substances, Prepared. Southern Cotton Oil Company. Nos. 150,577-83; Jan. 3.
- Faucets. S. Kersten. No. 153,773; Mar. 28.
- Faucets. Standard Sanitary Manufacturing Company. No. 162,899; Dec. 26.
- Faucets, cocks, and bibs. E. Stebbins Manufacturing Company. No. 157,586; Aug. 8.
- Featherstitch braid and embroidery edging. American Fabrics Company. No. 155,596; June 6.
- Feed. Pease & Dwyer Co. No. 153,510; Mar. 21.
- Feed and corn-oil-cake meal, Corn gluten. Penick & Ford Ltd. Inc. No. 152,105; Feb. 14.
- Feed and ensilage cutters and fodder shredders. Silver Manufacturing Company. No. 155,080; May 16.
- Feed, Calf, dairy, scratch, chicken, stock, etc. Thomas-Boyce Direct Feed Company. No. 160,029; Oct. 10.
- Feed, Cattle and stock. S. P. Davis. No. 152,380; Feb. 28.

Alphabetical list of trade-marks—Continued.

- Feed, Cattle and stock. S. P. Davis. Nos. 152,740-1; Mar. 7.
- Feed, Chicken. M. Liggett. No. 162,811; Dec. 26.
- Feed, Cow. W. J. Lawther. No. 159,928; Oct. 10.
- Feed, Dairy. International Sugar Feed Co. No. 161,885; Nov. 21.
- Feed, Dairy. R. M. Stegall. No. 153,540; Mar. 21.
- Feed for animals and poultry, Mineral. Shores-Mueller Company. No. 153,529; Mar. 21.
- Feed, Horse and cattle. Omaha Alfalfa Milling Co. No. 153,504; Mar. 21.
- Feed, Horse and dairy, etc. H. Fruechtenicht. No. 159,355; Sept. 26.
- Feed mills, Grinding screens for. Williams Patent Crusher & Pulverizer Co. No. 156,086; June 13.
- Feed mixtures, Mineral. W. H. Dockhorn. No. 162,721; Dec. 26.
- Feed, Ox. Pease & Dwyer Co. No. 159,982; Oct. 10.
- Feed, Poultry. Albers Bros. Milling Co. No. 161,822; Nov. 21.
- Feed, Poultry. Brooks Company. No. 159,290; Sept. 26.
- Feed, Poultry. Buckeye Cotton Oil Company. No. 159,293; Sept. 26.
- Feed, Poultry. International Sugar Feed Co. No. 161,508; Nov. 14.
- Feed, Poultry. Omaha Alfalfa Milling Company. No. 152,923; Mar. 7.
- Feed, Poultry. St. Albans Grain Company. No. 159,534; Sept. 26.
- Feed, Poultry. Security Mills & Feed Company. No. 151,941; Feb. 14.
- Feed, Poultry. C. L. Teuteberg. No. 153,020; Mar. 7.
- Feed, Poultry. Tioga Mill & Elevator Co. No. 161,647; Nov. 14.
- Feed, Prepared poultry. Chapin & Company. No. 150,284; Jan. 3.
- Feed, Scratch, chick growing, etc. Albert H. Buehrle Co. No. 151,021; Jan. 10.
- Feed, Stock. Albers Bros. Milling Co. No. 161,392; Nov. 14.
- Feed, Stock. Miller-McConnell Grain Co. No. 151,875; Feb. 14.
- Feed, Stock. B. L. Sessum. No. 157,762; Aug. 15.
- Feed, Stock and poultry. Aviston Flour Company. No. 159,267; Sept. 26.
- Feed, Stock and poultry. Humphreys-Godwin Company. No. 159,381; Sept. 26.
- Feed, Stock and poultry. Scott County Milling Company. No. 153,525; Mar. 21.
- Feeding and drinking receptacles, Poultry. B. & W. Mfg. Co. No. 151,695; Feb. 14.
- Feeds. H-O Cereal Company. No. 162,775; Dec. 26.
- Feeds. St. Albans Grain Company. No. 152,077; Feb. 14.
- Feeds and poultry mash. Thomas-Boyce Direct Feed Company. No. 159,554; Sept. 26.
- Feeds, Animal, bird, and poultry. H-O Cereal Company. No. 159,901; Oct. 10.
- Feeds, balanced ration, Wheat and stock. J. Cushing Co. No. 152,055; Feb. 14.
- Feeds, breakfast cereals and flours, stock and poultry. Portland Flouring Mills Co. No. 159,479; Sept. 26.
- Feeds, corn meal, wheat and rye flour, Stock and poultry. Hardeman-King Co. No. 161,496; Nov. 14.
- Feeds for animals and poultry, Mixed. Edgar-Morgan Co. No. 152,755; Mar. 7.
- Feeds, laying mash, and corn meal, Hen and chick. Richland Milling Company. No. 151,924; Feb. 14.
- Feeds, Mixed. Memphis Cotton Hull & Fibre Co. No. 159,435; Sept. 26.
- Feeds, Mixed poultry. Wells-Osen Milling Co. No. 160,040; Oct. 10.
- Feeds, Stock and poultry. J. J. Schreiber. No. 159,509; Sept. 26.
- Fencing, Wire. American Steel and Wire Company of New Jersey. No. 152,561; Feb. 28.
- Ferrous carbonate pill. Lexington Chemical Co. No. 161,205; Nov. 7.
- Fertilizer, Flower. E. T. MacNamara. No. 158,744; Sept. 12.
- Fertilizers. Davey Tree Expert Company. No. 162,428; Dec. 12.
- Fertilizers. G. G. Drouin. No. 154,945; May 16.
- Fertilizers. H. D. Levan. No. 159,018; Sept. 19.
- Fertilizers. Pacific Bone, Coal & Fertilizer Co. No. 162,332; Dec. 12.
- Fertilizers. Patuxent Guano Company. No. 154,124; Apr. 4.
- Fertilizers, Artificial. A. H. Carter, Limited. No. 150,281; Jan. 3.
- Fertilizers, Commercial. Monmouth County Farmers' Exchange. No. 150,479; Jan. 3.
- Fertilizers, those containing phosphate. Anaconda Copper Mining Company. No. 154,867; May 16.
- Fezes. Supreme Orient O. O. H. & P. No. 156,065; June 13.
- Fezes. Supreme Pyramid Ancient Egyptian Order of Sciots. No. 158,109; Aug. 22.
- Fiber compound. Vulpinite Mfg. Co. No. 154,174; Apr. 4.
- Fiber cops and quills. Kronyte Manufacturing Corporation. No. 152,850; Mar. 7.
- Fiber gaskets and packings, and fiber in sheet form. Kronyte Manufacturing Corporation. No. 150,442; Jan. 3.
- Fiber ropes and twines. Hooven & Allison Company. Nos. 154,972-4; May 16.
- Fibrous material used for heat and sound insulation and sheathing. United States Fiber Products Company. No. 159,776; Oct. 3.
- Figs. Giebler & Goldman. No. 157,674; Aug. 15.
- Figs and dates. Smyrna Fruits Co. No. 154,701; Apr. 18.
- Figs, Preserved. Beckwith Company. No. 161,918; Nov. 28.
- Figs, Preserved. H. L. Klute. No. 154,599; Apr. 18.
- Figures of animals, Wooden. Crawford-Wilsey Co. No. 157,917; Aug. 22.
- Files. Service Tool Company. No. 161,836; Nov. 21.
- Files. Tacony File & Hardware Co. No. 155,291; May 23.
- Files and rasps. Heller Brothers Company. No. 161,781; Nov. 21.
- Files, Letter. Eberwein & Zahndt. No. 161,766; Nov. 21.
- Files, Manicure. Schnefel Bros. Nos. 153,518-21; Mar. 21.
- Files, razors, razor blades, pocketknives, scissors, kitchen knives, and blade grinders. De Maria & Sparacia. No. 162,491; Dec. 19.
- Filing cabinets. H. L. De Lisle. No. 151,735; Feb. 14.
- Filing cards. Oxford Filing Supply Co. No. 155,040; Mar. 16.
- Filing folders, data books, article sorting and distributing folders. Work-Organizer Specialties Company. No. 155,129; May 16.
- Filing receptacles. Ross-Gould Company. No. 150,547; Jan. 3.
- Filter, stovepipe enamel, asphalt roof paint, and tinnern' red roof paint. Crack. Rutland Fire Clay Co. No. 159,079; Sept. 19.
- Filters. Seratch. A. Shales. No. 155,077; May 16.
- Film-cleaning fluid. G. H. Bennett. No. 157,865; Aug. 22.
- Films, Cinematograph. Societa Anonima Itala Film. No. 157,207; July 25.
- Filter mass. L. Baer. No. 153,972; Apr. 4.
- Filter parts, Cleaning apparatus for. Midwest Steel & Supply Company. No. 155,019; May 16.
- Filters. Bousman Manufacturing Company. No. 151,087; Jan. 24.
- Filters. La Societe Anonyme Du Filtre Chamberland Systeme Pasteur. No. 156,324; June 20.
- Filters. J. H. Packer. No. 154,122; Apr. 4.
- Filters. C. S. Smith. No. 159,526; Sept. 26.
- Filters and filter presses. Buffalo Forge Company. No. 153,672; Mar. 28.
- Filters and filter stone made of tripoli. American Tripoli Company. No. 153,646; Mar. 28.
- Filters and parts thereof. Midwest Steel & Supply Company. No. 153,799; Mar. 28.
- Filters and refrigerators. John Dunn, Son & Co. No. 151,741; Feb. 14.
- Filters and refrigerators. C. Schmidt Company. No. 153,850; Mar. 28.
- Filters, Antisplash water. Seed Filter & Manufacturing Co. No. 159,513; Sept. 26.
- Filters, coolers, and bottle washers. W. W. Klemm. No. 155,574; May 30.
- Filters, Pressure and suction tube. Gebrüder Bühler. No. 153,673; Mar. 28.
- Filters, water and beverage coolers. Allen Filter Company. No. 153,390; Mar. 21.
- Finger-nail buffers. C. T. Sundmacher. No. 158,829; Sept. 12.
- Finger-piece eyeglass mountings. F. A. Hardy & Company. No. 157,094; July 25.
- Finger rings. F. E. Ashmun Company. No. 161,399; Nov. 14.
- Finger rings. M. Bauman. No. 156,619; July 11.
- Finger rings. C. B. Poase. No. 156,911; July 18.
- Finger rings, bracelets, brooches, and bar pins. A. K. S. Jewelry Mfg. Co. No. 162,277; Dec. 12.
- Finger rings, brooches, hairpins, lavallières, and scarf pins. D. D. Brockaw & Son. No. 158,193; Aug. 29.
- Fire-alarm apparatus, Certain. M. de Ortiga Burnay. No. 162,227; Dec. 12.
- Firearms. Orbea Hermanos. No. 158,980; Sept. 19.
- Fire brick, furnace and baffle tiles, etc. W. E. Mushet. Nos. 156,715-6; July 11.
- Fire cement. C. H. Sankey. No. 159,757; Oct. 3.
- Firecrackers. Hitt Fireworks Company. No. 157,100; July 25.
- Firecrackers. C. Scardone. No. 152,984; Mar. 7.
- Fire detectors. Electric automatic. D. G. Dee. No. 151,460; Feb. 7.
- Fire-extinguisher fluid. Safandshur Chemical Co. No. 156,971; July 18.
- Fire-extinguishing composition. J. B. Miller. No. 159,038; Sept. 19.
- Fire-extinguishing liquid. S. H. Brooks. No. 152,695; Mar. 7.
- Fire-extinguishing liquid. S. H. Brooks. No. 158,152; Aug. 22.
- Fire-extinguishing liquid and mounted on a bracket, Receptacles containing a. B. & K. Specialty Company. No. 157,614; Aug. 8.
- Fire extinguishers and chemical fire engines, Motor-driven and hand-drawn. B. J. Goldstein. No. 156,871; July 18.
- Fire extinguishers, Hand. S. H. Brooks. No. 160,083; Oct. 10.

Alphabetical list of trade-marks—Continued.

- Fire extinguishers, Hand. Embalmers' Supply Co. No. 152,757; Mar. 7.
- Fire extinguishers, Portable. Boyce & Veeder Company. No. 160,400; Oct. 24.
- Fire fondlers, furnace bars. Hadfields Limited. No. 157,091; July 25.
- Fire hose. F. Reddaway & Co. No. 21,386; renewed June 28, 1922.
- Fire maker. M. H. Recktenwalt. No. 151,216; Jan. 24.
- Fireproofing compounds. Pyro-Non Paint Co. No. 160,635; Oct. 24.
- Fireworks. H. Bottieri. No. 162,687; Dec. 26.
- Fireworks. Buettell Brothers Company. No. 156,847; July 18.
- First-aid kits. Adjuria Inc. No. 158,373; Sept. 5.
- First-aid kits. W-M Mfg. Co. No. 153,076; Mar. 7.
- First-aid outfits. Hygienic Fibre Company. No. 154,977; May 16.
- Fish and sea food. Ray Fish Packing Co. No. 151,921; Feb. 14.
- Fish and shell fish. E. Greason. Nos. 154,555-6; Apr. 18.
- Fish bait. James Heddon's Sons. No. 154,046; Apr. 4.
- Fish, Boneless. Benj. F. Allen & Co. Nos. 19,311-12; renewed Apr. 14, 1921.
- Fish, Dried, smoked, and pickled. Tower Fish Company. No. 162,390; Dec. 12.
- Fish food. Heger Bird Company. No. 152,421; Feb. 28.
- Fish hooks and flies. Meier & Frank Co. No. 159,950; Oct. 10.
- Fish lines, Braided. B. F. Gladding & Co. No. 152,768; Mar. 7.
- Fish, oysters, and other shell fish packed in tin and glass. Herman Ruge & Sons. No. 21,863; renewed Oct. 11, 1922.
- Fishing baits, Artificial. Weber Lifelike Fly Co. No. 158,141; Aug. 22.
- Fishing-fly books. F. W. Klinger and Langbein Co. No. 160,222; Oct. 17.
- Fishing line. Ashaway Line & Twine Manufacturing Company. Nos. 153,913-14; Mar. 28.
- Fishing line. Ashaway Line & Twine Manufacturing Company. Nos. 155,365-80; May 30.
- Fishing line. Ashaway Line & Twine Manufacturing Company. Nos. 155,603-4; June 6.
- Fishing line. Ashaway Line & Twine Manufacturing Company. Nos. 156,166-8; June 20.
- Fishing line. Ashaway Line & Twine Manufacturing Company. No. 158,380; Sept. 5.
- Fishing line. Ashaway Line & Twine Manufacturing Company. No. 160,375; Oct. 24.
- Fishing lines. Ashaway Line & Twine Manufacturing Company. No. 155,307; May 23.
- Fishing lines. Ashaway Line & Twine Manufacturing Company. No. 156,099; June 13.
- Fishing lines. Ashaway Line & Twine Manufacturing Company. No. 156,500; June 27.
- Fishing lines. Cortland Line Co. Nos. 156,948-57; July 18.
- Fishing lines. Cortland Line Co. Nos. 160,428-35; Oct. 24.
- Fishing lines. Cortland Line Co. No. 162,634; Dec. 19.
- Fishing lines. B. F. Gladding & Co. Nos. 153,177-89; Mar. 14.
- Fishing lines. B. F. Gladding & Co. No. 155,235; May 23.
- Fishing lines. B. F. Gladding & Co. Nos. 156,122-5; June 13.
- Fishing lines. B. F. Gladding & Co. Inc. No. 155,329; May 23.
- Fishing lines. B. F. Gladding & Co. Inc. Nos. 156,516-17; June 27.
- Fishing lines. Edw. K. Tryon Company. No. 156,496; June 20.
- Fishing lines, Braided. B. F. Gladding & Co. No. 155,236; May 23.
- Fishing lines, Braided cotton. Cortland Line Co. No. 160,159; Oct. 17.
- Fishing lines, Braided enameled Japan-silk. Cortland Line Co. No. 159,613; Sept. 26.
- Fishing lines. Braided Japan-silk enameled. Cortland Line Co. No. 160,164; Oct. 17.
- Fishing lines, Braided linen. B. F. Gladding & Co. No. 150,673; Jan. 3.
- Fishing lines, Braided linen. B. F. Gladding & Co. Nos. 150,675-6; Jan. 3.
- Fishing lines, Braided lisle thread. B. F. Gladding & Co. No. 150,678; Jan. 3.
- Fishing lines, Braided oil-silk. B. F. Gladding & Co. No. 154,953; May 16.
- Fishing lines, Enameled Japan-silk. Cortland Line Co. Nos. 160,161-2; Oct. 17.
- Fishing lines, Enameled Japan-silk. Cortland Line Co. Nos. 160,425-6; Oct. 24.
- Fishing lines, Enameled Japan-silk. Cortland Line Co. No. 162,709; Dec. 26.
- Fishing lines, Enameled silk. B. F. Gladding & Co. No. 155,234; May 23.
- Fishing lines, Hard braided waterproof silk. Cortland Line Co. No. 160,427; Oct. 24.
- Fishing lines, Japan hard braid silk. Cortland Line Co. No. 161,103; Nov. 7.
- Fishing lines, Japan-silk. Cortland Line Co. No. 161,931; Nov. 28.
- Fishing lines, Japan-silk waterproof. Cortland Line Co. No. 160,160; Oct. 17.
- Fishing lines, Linen. B. F. Gladding & Co. No. 150,677; Jan. 3.
- Fishing lines, Oiled-silk. Cortland Line Co. No. 160,163; Oct. 17.
- Fishing lines, Pure Japan-silk. Cortland Line Co. No. 160,166; Oct. 17.
- Fishing lines, Pure-silk. Cortland Line Co. No. 160,165; Oct. 17.
- Fishing lines, Silk. B. F. Gladding & Co. No. 152,787; Mar. 7.
- Fishing lines, Silk. B. F. Gladding & Co. No. 154,954; May 16.
- Fishing lures. South Bend Co. No. 154,453; Apr. 11.
- Fishing reels. A. F. Meisselbach Manufacturing Company. Nos. 153,602-3; Mar. 21.
- Fishing reels. A. F. Meisselbach Manufacturing Company. No. 153,605; Mar. 21.
- Fishing reels. Enterprise Manufacturing Company. No. 154,927; May 16.
- Fishing reels. General Phonograph Corporation. No. 153,374; Mar. 14.
- Fishing reels, Drag handles for. Enterprise Manufacturing Company. No. 161,937; Nov. 28.
- Fishing rod and reel. American Display Company. No. 153,958; Apr. 4.
- Fishing-rod mountings. W. H. Meyer. No. 156,348; June 20.
- Fishing rods. F. P. Danzer. No. 160,341; Oct. 17.
- Fishing spinners. F. J. Boyle. No. 151,020; Jan. 10.
- Fishing spoons. Geneva Tackle Co. No. 159,358; Sept. 26.
- Fishing tackle. South Bend Bait Company. No. 151,048; Jan. 10.
- Fishing tackle, Cases and bags for. Knickerbocker Case Company. No. 153,377; Mar. 14.
- Fishing tackle, Certain. Winchester Repeating Arms Co. No. 159,157; Sept. 19.
- Flannels, tickings, covert cloths, etc., Canton. Erwin Cotton Mills Co. No. 156,240; June 20.
- Flash light and batteries. R. V. G. Company. No. 155,814; June 6.
- Flash lights and electric batteries. Winchester Repeating Arms Co. No. 151,645; Feb. 7.
- Flasks, Vacuum. Arthur Nickelsburg Limited. No. 152,914; Mar. 7.
- Flatware and cutlery of base metal, Table. Premier Cutlery, Inc. Nos. 152,484-5; Feb. 28.
- Flatware, Table. Oneida Community. No. 150,940; Jan. 10.
- Flavor for gravies and soups, Food. T. G. Sauritsen. No. 151,394; Jan. 31.
- Flavoring and magnesite stucco, Composition. Compoloid Products Corporation. No. 155,946; June 13.
- Flavoring compound for candies, etc. Eng-Skell Company. No. 154,542; Apr. 18.
- Flavoring compound for use in sirups, etc. Eng-Skell Company. No. 151,744; Feb. 14.
- Flavoring compound used in preparing beverages. Eng-Skell Company. No. 150,803; Jan. 10.
- Flavoring extracts and essential oil for food purposes. Tisco Company. No. 154,401; Apr. 11.
- Flavoring extracts and sirups, confections, fruits, ice cream, etc. Eng-Skell Company. Nos. 159,872-3; Oct. 10.
- Flavoring extracts for food. Garrett & Company. No. 155,966; June 13.
- Flavoring extracts for food. Webb Manufacturing Company. No. 156,940; July 18.
- Flavoring extracts for food purposes. Garrett & Company, Inc. No. 155,328; May 23.
- Flavoring extracts for nonalcoholic beverages. National Fruit Flavor Co. No. 156,896; July 18.
- Flavoring extracts, Fountain sirups and. Langley & Michaels Co. No. 152,854; Mar. 7.
- Flavoring extracts, marshmallow dressing, fudges, ice-cream powder, crushed fruits, etc. Horine & Boway Company. No. 154,577; Apr. 18.
- Flavoring extracts, nonalcoholic, maltless. Instant Extract Company. No. 151,817; Feb. 14.
- Flavoring extracts, peanut butter, vinegar, etc. Robb-Ross Co. No. 152,970; Mar. 7.
- Flavoring extracts, spices, and sauces, Food. I. Berkenfeld. No. 156,964; July 18.
- Flavoring extracts, spices, tea, and cocoa, Food. Ho-Ro Co. Manufacturing Company. No. 160,530; Oct. 24.
- Flavoring for beverages. R. C. Wylie. No. 155,131; May 16.
- Flavorings and foods, Certain artificial. Van Antwerp's Drug Corporation. No. 153,626; Mar. 21.
- Flexible driving mechanism, etc. P. L. Billingsley Company. No. 156,837; July 18.
- Flexible sheet material. National Dry Kiln Co. No. 153,263; Mar. 14.
- Floats for use with float valves, Chambered. Ayling & Reichert Co. No. 162,030; Dec. 5.
- Floor and furniture-top coverings. Wagenmaker Company. No. 156,459; June 20.
- Floor covering. Morton Sundour Fabrics Ld. No. 153,255; Mar. 14.
- Floor covering. Rothenberg & Co. No. 155,520; May 30.
- Floor covering, Plastic. Duraflax Company. No. 160,461; Oct. 24.

Alphabetical list of trade-marks—Continued.

- Floor coverings. Cott-A-Lap Company. No. 152,376; Feb. 28.
- Floor coverings, Felt-base. Ringwalt Works, Inc. No. 161,276; Nov. 7.
- Floor coverings, linoleum, etc., Felt base. W. A. W. Davis Corp. Nos. 150,325-6; Jan. 3.
- Floor-surfacing machines. American Floor Surfacing Machine Co. No. 153,096; Mar. 14.
- Flooring, Composition. Flexstone Flooring Company. No. 152,400; Feb. 28.
- Flooring in blocks and sheets, Composition. Junius H. Stone Corporation. No. 152,516; Feb. 28.
- Flooring in sheet form composed of mastic material and like mastic materials for use in laying such flooring. Insultite Chemical Company. No. 152,835; Mar. 7.
- Flooring, Mastic. Thomas Moulding Brick Company. No. 160,310; Oct. 17.
- Flooring, Stucco and composition. Dorite Manufacturing Company. No. 152,389; Feb. 28.
- Flooring, Wooden. H. J. Breeze. No. 154,823; May 9.
- Floors, Hardwood. M. Day. No. 159,687; Oct. 3.
- Floors or walks, Cementitious surfacing material for. Krieghoff Company. No. 153,223; Mar. 14.
- Flounces, embroideries, bandings, and skirtings in the piece. G. Sidenberg & Co. Nos. 152,502-3; Feb. 28.
- Flour. J. Butler. No. 21,344; renewed June 21, 1922. renewed Nov. 8, 1922.
- Flour and corn meal, Wheat. G. F. Obrecht. No. 159,973; Oct. 10.
- Flour and corn meal, Wheat and Graham. Colby Milling Company. No. 152,726; Mar. 7.
- Flour and feeds, Rye. Ladish Milling Co. No. 159,406; Sept. 26.
- Flour, Cake. W. C. Dorsett. No. 153,151; Mar. 14.
- Flour, farina, corn meal, etc. Hecker-Jones-Jewell Milling Company. No. 151,803; Feb. 14.
- Flour, Graham, and corn meal, Wheat. Imperial Flour Mills Company. No. 159,912; Oct. 10.
- Flour, Hard-wheat. M. B. Scanlon. No. 160,007; Oct. 10.
- Flour, hard-wheat flour, pastry and cake flours, and bran, Wheat. Mallinson Bros. No. 159,945; Oct. 10.
- Flour, macaroni, corn meal, etc., Wheat. Globe Grain & Milling Company. No. 163,762; Dec. 26.
- Flour-mill machinery. Salem Foundry and Machine Works. No. 160,113; Oct. 10.
- Flour, Pancake. I. D. Ekbergh. No. 159,870; Oct. 10.
- Flour, Potato. Falk American Potato Flour Corporation. No. 151,753; Feb. 14.
- Flour, Prepared. T. A. Faulds Company. No. 153,441; Mar. 21.
- Flour, Prepared. Hecker-Jones-Jewell Milling Company. No. 159,897; Oct. 10.
- Flour, Prepared. Potter & Wrightington. No. 160,273; Oct. 17.
- Flour, rolled oats, coffee, tea, etc., Wheat. A. H. Perfect & Co. No. 162,856; Dec. 26.
- Flour, Self-rising. Cape County Milling Company. No. 162,697; Dec. 26.
- Flour, Self-rising. Dulle-Meyer Milling Company. Nos. 153,435-6; Mar. 21.
- Flour, Self-rising. Duile-Meyer Milling Company. No. 159,338; Sept. 26.
- Flour, Self-rising. Ford Flour Company. No. 153,170; Mar. 14.
- Flour, Self-rising. Hadley Milling Company. No. 159,365; Sept. 26.
- Flour, Self-rising. Hezel Milling Company. No. 161,501; Nov. 14.
- Flour, Self-rising. Model Mill Company. No. 159,955; Oct. 10.
- Flour, Self-rising wheat. Bernet, Craft & Kauffman Milling Co. No. 160,391; Oct. 24.
- Flour, Self-rising wheat. Modern Flour Mills. No. 153,608; Mar. 21.
- Flour, Self-rising wheat. Reliance Milling Company. No. 153,292; Mar. 14.
- Flour, Self-rising wheat. Star Milling Company. No. 150,589; Jan. 3.
- Flour, Vegetable. Emido Company. No. 158,432; Sept. 5.
- Flour, Wheat. American Finance & Commerce Company. Nos. 151,656-7; Feb. 14.
- Flour, Wheat. American Finance & Commerce Company. No. 159,251; Sept. 26.
- Flour, Wheat. American Hominy Company. No. 152,340; Feb. 28.
- Flour, Wheat. American Hominy Company. No. 159,252; Sept. 26.
- Flour, Wheat. Barrett Denton & Lynn Co. No. 158,605; Sept. 12.
- Flour, Wheat. Bay State Milling Company. No. 161,864; Nov. 21.
- Flour, Wheat. Bech Van Sieten & Co. No. 153,344; Mar. 14.
- Flour, Wheat. Bernet, Craft & Kauffman Milling Co. No. 159,277; Sept. 26.
- Flour, Wheat. Broenniman Export Corporation. Nos. 159,816-19; Oct. 10.
- Flour, Wheat. Centennial Mill Company. No. 152,705; Mar. 7.
- Flour, Wheat. E. O. Challenger. No. 157,024; July 25.
- Flour, Wheat. Charleston Milling Company. No. 153,424; Mar. 21.
- Flour, Wheat. Chippewa Milling Co. No. 159,847; Oct. 10.
- Flour, Wheat. City Mills Company. No. 153,425; Mar. 21.
- Flour, Wheat. Collins Flour Mills. No. 159,851; Oct. 10.
- Flour, Wheat. Collins Flour Mills. Nos. 152,136-8; Feb. 21.
- Flour, Wheat. Collins Flour Mills. No. 152,372; Feb. 28.
- Flour, Wheat. Colonial Export & Import Company. No. 159,316; Sept. 26.
- Flour, Wheat. Colorado Milling & Elevator Company. No. 151,715; Feb. 14.
- Flour, Wheat. Commercial Milling Co. No. 161,867; Nov. 21.
- Flour, Wheat. Commercial Union of America. Nos. 160,423-4; Oct. 24.
- Flour, Wheat. Duluth-Superior Milling Company. No. 159,867; Oct. 10.
- Flour, Wheat. Dunlop Milling Co. No. 162,008; Nov. 28.
- Flour, Wheat. El Reno Mill & Elevator Co. No. 159,350; Sept. 26.
- Flour, Wheat. Federal Mill & Elevator Co. No. 152,765; Mar. 7.
- Flour, Wheat. Fisher Flouring Mills Company. No. 153,169; Mar. 14.
- Flour, Wheat. Fisher Flouring Mills Company. Nos. 162,750-1; Dec. 26.
- Flour, Wheat. Fitzgerald Flour Co. No. 159,876; Oct. 10.
- Flour, Wheat. Frank R. Prina Corporation. Nos. 151,915-16; Feb. 14.
- Flour, Wheat. Goode & Dunkie. No. 161,489; Nov. 14.
- Flour, Wheat. Great Western Milling Company. No. 160,511; Oct. 24.
- Flour, Wheat. E. C. Hawkins. No. 152,816; Mar. 7.
- Flour, Wheat. Hecker-Jones-Jewell Milling Company. No. 153,593; Mar. 21.
- Flour, Wheat. S. W. Hershey. No. 162,639; Dec. 19.
- Flour, Wheat. Holt & Company. No. 152,195; Feb. 21.
- Flour, Wheat. Hoyland Flour Mills Company. Nos. 159,907-10; Oct. 10.
- Flour, Wheat. Hulshizer Milling & Baking Co. No. 161,883; Nov. 21.
- Flour, Wheat. Ismert-Hincke Milling Company. No. 161,886; Nov. 21.
- Flour, Wheat. Ipswich Milling Co. Nos. 153,472-3; Mar. 21.
- Flour, Wheat. Kansas City Milling Co. No. 159,304; Sept. 26.
- Flour, Wheat. Keystone Flour Co. No. 160,550; Oct. 24.
- Flour, Wheat. Larabee Flour Mills Corporation. No. 162,808; Dec. 26.
- Flour, Wheat. Lindsborg Milling & Elevator Co. No. 159,932; Oct. 10.
- Flour, Wheat. Mansfield Milling Co. No. 153,600; Mar. 21.
- Flour, Wheat. Mauser Mill Company. No. 159,433; Sept. 26.
- Flour, Wheat. Millers Milling Company. No. 151,876; Feb. 14.
- Flour, Wheat. Minkota Milling Company. No. 21,940; renewed Nov. 8, 1922.
- Flour, Wheat. Modern Flour Mills. No. 153,609; Mar. 21.
- Flour, Wheat. Nebraska Consolidated Mills Co. No. 159,456; Sept. 26.
- Flour, Wheat. Northwestern Consolidated Milling Company. No. 153,811; Mar. 28.
- Flour, Wheat. Oklahoma City Mill & Elevator Co. No. 158,763; Sept. 12.
- Flour, Wheat. Oklahoma City Mill and Elev. Co. No. 159,465; Sept. 26.
- Flour, Wheat. Oklahoma Mill Co. No. 152,921; Mar. 7.
- Flour, Wheat. Old Fashioned Millers, Inc. No. 153,611; Mar. 21.
- Flour, Wheat. Omaha Flour Mills Co. No. 157,730; Aug. 15.
- Flour, Wheat. Pattison & Co. No. 153,508; Mar. 21.
- Flour, Wheat. Piedmont Mills, Inc. No. 159,474; Sept. 26.
- Flour, Wheat. Pillsbury Flour Mills Company. No. 159,638; Sept. 26.
- Flour, Wheat. Poage-Wall Milling Company. Nos. 152,253-4; Feb. 21.
- Flour, Wheat. Randolph Milling Company. No. 153,287; Mar. 14.
- Flour, Wheat. Red Star Milling Company. No. 152,258; Feb. 21.
- Flour, Wheat. Red Star Milling Company. No. 162,871; Dec. 26.
- Flour, Wheat. Russell-Miller Milling Co. No. 152,977; Mar. 7.
- Flour, Wheat. Saxony Mills. No. 159,507; Sept. 26.
- Flour, Wheat. Scott County Milling Company. Nos. 153,617-18; Mar. 21.
- Flour, Wheat. Southwestern Milling Company. No. 159,531; Sept. 26.
- Flour, Wheat. Sperry Flour Company. No. 159,532; Sept. 26.
- Flour, Wheat. St. Paul Milling Co. No. 162,881; Dec. 26.
- Flour, Wheat. Stanard Tilton Milling Co. No. 160,022; Oct. 10.
- Flour, Wheat. Texas Star Flour Mills. No. 153,022; Mar. 7.
- Flour, Wheat. Texas Star Flour Mills. No. 159,129; Sept. 19.
- Flour, Wheat. The Red Star Milling Company. Nos. 159,489-90; Sept. 26.

- Flour, Wheat. Theobald Flour Mills Co. Nos. 162,915-16; Dec. 26.
- Flour, Wheat. Tri-State Milling Co. No. 153,030; Mar. 7.
- Flour, Wheat. Thompson Milling Company. No. 159,771; Oct. 3.
- Flour, Wheat. Vollmer Clearwater Company. No. 159,569; Sept. 26.
- Flour, Wheat. Wallace Milling Company. No. 151,996; Feb. 14.
- Flour, Wheat. Wallace Milling Company. No. 153,046; Mar. 7.
- Flour, Wheat. Wallace & Tiernan Co. No. 152,287; Feb. 21.
- Flour, Wheat. Washburn-Crosby Company. No. 162,176; Dec. 5.
- Flour, Wheat. Washburn Crosby Company. No. 162,937; Dec. 26.
- Flour, Wheat. J. S. Waterman & Co. No. 159,580; Sept. 26.
- Flour, Wheat. Weber Flour Mills Corporation. No. 152,001; Feb. 14.
- Flour, Wheat. Weber Flour Mills Corporation. No. 152,294; Feb. 21.
- Flours, corn meal, corn flakes, rolled oats, etc. Jersey Cereal Food Company. No. 159,626; Sept. 26.
- Flower pots, Metal. Porciron Mfg. Co. No. 155,051; May 16.
- Flowers and plants and floral decorations, Natural. Gude Bros. Co. No. 153,191; Mar. 14.
- Fluid-compressor outfits, wrenches, pliers, etc. Au-To Compressor Co. No. 151,424; Feb. 7.
- Fluid for patching fabrics. H. W. Lucas & Co. No. 153,735; Sept. 12.
- Fluids, Material for separating impurities, etc., from. Celite Products Company. No. 154,900; May 16.
- Fluxes for soldering and welding. Société Anonyme des Usines Giulini. No. 152,274; Feb. 21.
- Fly liquids. Komo Chemical Company. No. 150,440; Jan. 3.
- Fly swatters. Lubbers & Bell Mfg. Co. Nos. 159,935-7; Oct. 10.
- Flywheels and steel ring gears for automobiles, pistons, clutches, and shaft couplings. Hilliard Clutch & Machinery Co. No. 160,097; Oct. 10.
- Foil wrappers. United States Foil Company. No. 153,339; Mar. 14.
- Folders, paper-filing guides, etc., Filing. General Fire-proofing Co. No. 154,030; Apr. 4.
- Fondant or base for candy, etc. W. L. Caswell. No. 154,780; May 9.
- Food and ingredients of foods, Certain. Haas, Baruch & Co. No. 153,740; Mar. 28.
- Food, animal-feeding stuffs, etc., Poultry. Globe Grain & Milling Company. No. 152,791; Mar. 7.
- Food, Cereal breakfast. Ward Baking Company. No. 153,048; Mar. 7.
- Food colors. Chr. Hansen's Laboratory Inc. No. 154,243; Apr. 11.
- Food confections, Cereal. T. B. Wagner. No. 162,403; Dec. 12.
- Food containers, more particularly glass jars. Nifty Jar & Cooker Manufacturing Company. No. 160,256; Oct. 17.
- Food containing the elements of beef, milk, rice, and yeast. Chester Kent & Co. No. 154,596; Apr. 18.
- Food, Dietetic health. California Fig-Nut Company. No. 152,310; Feb. 21.
- Food for animals. Prepared. Pratt Food Company. No. 21,632; renewed Aug. 16, 1922.
- Food for hogs or swine. Blatchford Calf Meal Company. No. 150,255; Jan. 3.
- Food for infants and invalids, Carbohydrate. Mead Johnson & Company. No. 162,090; Dec. 5.
- Food for infants, invalids, and convalescents, Concentrated. G. Prunier & Cie. No. 151,917; Feb. 14.
- Food for infants and invalids, Prepared. Reed & Carnrick. No. 159,747; Oct. 3.
- Food, Laxative. Grale Packing Company. Nos. 152,799-800; Mar. 7.
- Food, Malt. Bonovin, Limited. No. 151,682; Feb. 14.
- Food, Poultry. M. W. Sleight. No. 160,969; Oct. 31.
- Food, Prepared poultry. Pratt Food Company. No. 21,634; renewed Aug. 16, 1922.
- Food products. Mawer-Gulden-Annis Inc. No. 160,576; Oct. 24.
- Food products. Vitamine Food Products Company. No. 153,043; Mar. 7.
- Food products, Certain. Almo Products Co. No. 161,912; Nov. 28.
- Food products, Certain. Bake-Rite Oven Mfg. Co. No. 159,269; Sept. 26.
- Food products, Certain. B. Cerf. No. 159,324; Sept. 26.
- Food products, Certain named. Gomez & Sloan, Inc. No. 162,079; Dec. 5.
- Food, Stock. Sperry Flour Company. No. 153,622; Mar. 21.
- Food supplement for children and invalids, Artificially-compounded. H. A. Metz. No. 157,715; Aug. 15.
- Food, Tonic bird. Burnett's Incorporated. No. 162,695; Dec. 26.
- Food, Whole-wheat milk. Dennos Food Co. of Portland. No. 162,716; Dec. 26.
- Foods and ingredients of foods. California Conserving Co. No. 152,700; Mar. 7.
- Foods and ingredients of foods, Certain. S. D. Abrams. No. 153,569; Mar. 21.
- Foods and ingredients of foods, Certain. Armour and Company. No. 150,665; Jan. 3.
- Foods and ingredients of foods, Certain. O. A. Beam & Son. No. 153,116; Mar. 14.
- Foods and ingredients of foods, Certain. John Morrell & Company. No. 153,253; Mar. 14.
- Foods and ingredients of foods, Certain. F. J. Rogers. No. 153,295; Mar. 14.
- Foods, Breakfast cereal. J. Kaufman. No. 156,484; June 20.
- Foods, Cattle and stock. Geo. B. Matthews & Sons. No. 159,432; Sept. 26.
- Foods, Certain. J. A. Gage. No. 160,868; Oct. 31.
- Foods, Certain. John Merrell & Company. No. 153,803; May 28.
- Foods, Certain named. Ambassador Chocolate Company. No. 154,775; May 9.
- Foods, Certain named. Bridgeville Packing Association. No. 154,502; Apr. 18.
- Foods, Certain named. U. R. S. Candy Stores, Inc. No. 161,849; Nov. 21.
- Foods, Certain named. Cleveland Provision Company. No. 154,516; Apr. 18.
- Foods, Certain named. Vitamon A/S. No. 154,728; Apr. 18.
- Foods, Certain named. Western Grocer Company. No. 154,734; Apr. 18.
- Foods in cooked form ready for immediate consumption. Capitol Lunch System. No. 153,423; Mar. 21.
- Foods—namely, canned peppers and tomatoes. P. Diez Presa. No. 154,656; Apr. 18.
- Foot and heel rests, door and foot mats, Aluminum. Cincinnati Aluminum Casting Company. No. 150,772; Jan. 10.
- Football, Game of indoor. E. E. Rees. No. 161,272; Nov. 7.
- Foot balm, sunburn cream, etc. C. S. Martindell. No. 154,325; Apr. 11.
- Foot-covering supports. G. E. Briggs. No. 154,496; Apr. 18.
- Foottease preparation. Sharp & Dohme. No. 156,416; June 20.
- Foot pads. Pep-Step Corp. No. 151,209; Jan. 24.
- Foot powder. Hoffman & Peterson. No. 155,714; June 6.
- Foot powder, Medicinal. Austilang Company. No. 154,223; Apr. 11.
- Foot wash. S. J. Mills. No. 156,353; June 20.
- Footwear. A. J. Bates & Company. No. 161,404; Nov. 14.
- Footwear. Golo Slipper Company. No. 154,552; Apr. 18.
- Forgings and analogous metal manufactures, Metal. General Railway Signal Company. No. 161,775; Nov. 21.
- Forgings and castings, Drop. Twin City Forge and Foundry Company. No. 155,102; May 16.
- Forgings, castings, stampings, steels, Drop-. J. H. Williams & Co. No. 151,644; Feb. 7.
- Forgings, Drop. Union Drop Forge Company. No. 160,699; Oct. 24.
- Founding, Machines for making molds for. Beardsley & Piper Company. No. 160,135; Oct. 17.
- Fountains, Drinking. Central Brass Manufacturing Co. No. 152,571; Feb. 28.
- Fowls, Compound for treating cholera in. Y. H. Watts & Co. No. 154,415; Apr. 11.
- Friction tape and splicing compound. Parr Electric Co. No. 158,359; Aug. 29.
- Friezes and woolen cloths, Irish. E. Connor & Company. No. 156,217; June 20.
- Frock, Child's. Patsy-Frok & Romper Company. No. 152,103; Feb. 14.
- Frocks. American Apparel Corporation. No. 156,090; June 13.
- Frocks. Jesse Woolf Co. No. 161,347; Nov. 7.
- Frocks and dresses, Women's. Rice-Stix Goods Company. No. 158,788; Sept. 12.
- Frocks and rompers for outer wear, Children's. D. M. Robles. No. 158,075; Aug. 22.
- Frocks for little girls, Play. Tubstuff Company. No. 157,226; July 25.
- Fruit and nut bars. M. A. Witt. No. 157,796; Aug. 15.
- Fruit, Artificial. J. H. Emery. No. 151,748; Feb. 14.
- Fruit, Dehydrated (apples). Ewell Fruit Company. No. 153,715; Mar. 28.
- Fruit, Drying machines for drying. G. E. Barozzi. No. 162,031; Dec. 5.
- Fruit frappé. Richard Frank. No. 156,867; July 18.
- Fruit, Fresh citrus. A. M. Klemm & Son. No. 162,094; Dec. 5.
- Fruit, Fresh deciduous. Lamb Fruit Company. No. 156,323; June 20.
- Fruit jams, jellies, preserves, and marmalade. John Gray & Company. No. 151,784; Feb. 14.
- Fruit-jar rings. R. E. Tongue & Bros. Company. No. 160,640; Oct. 24.
- Fruit-jar rings. Walker-Matteson Company. No. 157,238; July 25.
- Fruit pectin, Concentrated. Pectin Sales Co. No. 152,479; Feb. 28.
- Fruit pectin, Concentrated. Pectin Sales Co. No. 152,937; Mar. 7.
- Fruit presses. O. P. Schriver Co. No. 152,497; Feb. 28.
- Fruit tablets and other candies. Robertson Candy Co. No. 152,971; Mar. 7.

Alphabetical list of trade-marks—Continued.

- Fruits and berries, Dried and fresh. Oregon Growers Co-operative Assn. No. 150,505; Jan. 3.
- Fruits and grape sirup for food purposes, Fresh deciduous and dried. L. Zerillo. No. 156,946; July 18.
- Fruits and pineapples, Citrus. H. W. Savage. No. 162,884; Dec. 26.
- Fruits and vegetables, Fresh. H. G. Darwin. No. 161,692; Nov. 14.
- Fruits and vegetables, Fresh. Merced Growers Packing Ass'n. No. 150,472; Jan. 3.
- Fruits and vegetables, Fresh. L. K. Small Company. No. 151,950; Feb. 14.
- Fruits and vegetables, Fresh deciduous. Westfall-Lane Company. No. 152,004; Feb. 14.
- Fruits and vegetables, hay, corn, wheat, Fresh. E. W. Knapp. Nos. 159,401-2; Sept. 26.
- Fruits and vegetables, olives, etc., Fresh, dried, and canned. A. H. Brickwedel. No. 162,200; Dec. 12.
- Fruits, berries, and vegetables, jams, nuts, etc., Dried, canned, and fresh. Oregon Growers Cooperative Assn. No. 152,925; Mar. 7.
- Fruits, berries, vegetables, canned goods, &c. Oregon Growers Cooperative Assn. No. 152,924; Mar. 7.
- Fruits, berries, vegetables, etc. Oregon Growers Cooperative Assn. No. 153,270; Mar. 14.
- Fruits, Citrus. Chas. C. Oyler & Son. No. 156,725; July 11.
- Fruits, Citrus. Stambaugh & Rabe. No. 162,598; Dec. 19.
- Fruits, Fresh. W. T. Weaver. No. 158,566; Sept. 5.
- Fruits, Fresh. Western Reserve Farmers Cooperative Association. No. 154,735; Apr. 18.
- Fruits, Fresh and dried deciduous. Oregon Growers Cooperative Assn. No. 151,895; Feb. 14.
- Fruits, Fresh citrus. Anaheim Citrus Fruit Association. No. 152,662; Mar. 7.
- Fruits, Fresh citrus. Bastanchury Ranch Company. No. 154,428; Apr. 11.
- Fruits, Fresh citrus. Bastanchury Ranch Company. No. 154,777; May 9.
- Fruits, Fresh citrus. Bastanchury Ranch Company. No. 155,611; June 6.
- Fruits, Fresh citrus. Bastanchury Ranch Company. No. 156,502; June 27.
- Fruit, Fresh citrus. D. A. Beattie. No. 151,672; Feb. 14.
- Fruits, Fresh citrus. R. G. Carleton. No. 154,509; Apr. 18.
- Fruits, Fresh citrus. Chase & Chase. No. 152,709; Mar. 7.
- Fruits, Fresh citrus. Chester C. Fosgate Co. No. 152,778; Mar. 7.
- Fruits, Fresh citrus. Fugazzi Bros. No. 160,772; Oct. 24.
- Fruits, Fresh citrus. Geneva Citrus Growers Association. No. 161,943; Nov. 28.
- Fruits, Fresh citrus. N. Grove. Nos. 152,415-17; Feb. 28.
- Fruits, Fresh citrus. Groveland Citrus Growers Association. No. 161,945; Nov. 28.
- Fruits, Fresh citrus. Old Baldy Citrus Association. No. 152,922; Mar. 7.
- Fruits, Fresh citrus. Lake Region Packing Association. No. 150,445; Jan. 3.
- Fruits, Fresh citrus. Lake Wales Citrus Growers Association. Nos. 155,744-5; June 6.
- Fruits, Fresh citrus. L. B. Skinner. No. 152,076; Feb. 14.
- Fruits, Fresh citrus. L. K. Small Company. No. 160,970; Oct. 31.
- Fruits, Fresh citrus. E. A. Springstead. No. 153,311; Mar. 14.
- Fruits, Fresh citrus. S. M. Stephens. No. 151,964; Feb. 14.
- Fruits, Fresh citrus. Yorba Linda Citrus Association. No. 162,626; Dec. 19.
- Fruits, Fresh deciduous. Northern California Fruit Co. No. 156,898; July 18.
- Fruits, Fresh deciduous. Wenatchee District Co-operative Association. No. 153,902; Mar. 28.
- Fruits, Fresh deciduous. Wenatchee District Co-operative Association. No. 162,407; Dec. 12.
- Fruits, Fresh deciduous. Wenatchee Skookum Growers. No. 154,815; May 9.
- Fruits, Fresh deciduous. White Bros. & Crum Co. No. 159,584; Sept. 26.
- Fruits, Fresh deciduous. White Bros. & Crum Co. No. 160,725; Oct. 24.
- Fruits, fruit butter, and jam, Dried and canned. California Prune and Apricot Growers. No. 151,700; Feb. 14.
- Fruits, fruit sirups, and beverages made therefrom, Crushed. Schuster Company. No. 150,963; Jan. 10.
- Fruits in their natural state, Citrus. Pittsburgh-Florida Fruit Growers Assoc. No. 160,623; Oct. 24.
- Fruits in their natural state, Citrus. M. F. Wilkins. No. 159,588; Sept. 26.
- Fruits, Preserved. J. L. Reese Inc. No. 162,110; Dec. 5.
- Fruits, raisins, and seedless raisins, Dried. California Packing Corporation. No. 152,701; Mar. 7.
- Fruits, vegetables, and berries, Fresh. Wicomico Farmers (Ass'n). No. 152,549; Feb. 28.
- Fruits, vegetables, and fish, dried fruits, candies, etc. Channel Commercial Co. No. 159,846; Oct. 10.
- Fruits, vegetables, fish, coffee, coco, sugar, etc. Bon I. Look Stores Company. No. 152,123; Feb. 21.
- Fudge. Snider & Cazel. No. 158,302; Aug. 29.
- Fudge body covered first by marshmallow and then icing, Bar containing a. Curtiss Candy Co. No. 156,653; July 11.
- Fuel, benzol, toluol, naphtha, Liquid. Coopers Creek Chemical Company. No. 151,720; Feb. 14.
- Fuel for internal-combustion engines. Redmond & Bramley Oil Co. No. 151,356; Jan. 31.
- Fuel vaporizers. S. & G. Manufacturing Company. No. 162,880; Dec. 26.
- Fumigating materials, fungicides, and insecticides. Grasselli Chemical Company. No. 161,146; Nov. 7.
- Fungicide. Pittsburgh Plate Glass Company. No. 159,736; Oct. 3.
- Fungicides for plants. Dow Chemical Company. No. 157,928; Aug. 22.
- Fungicides, insecticides, vermicides, etc., for plants, trees, etc. McDougall & Yalding Ltd. Nos. 154,317-18; Apr. 11.
- Fur buttons. Marvin Lichtenstein & Bro. No. 150,468; Jan. 3.
- Fur coats, sheepskin coats and vests, vests. Ellsworth & Thayer Mfg. Co. No. 161,126; Nov. 7.
- Fur coats, wraps, capes, and neckpieces. Hudson Seal Co. No. 157,521; Aug. 8.
- Fur garments. Gottlieb Bros. No. 150,827; Jan. 10.
- Fur skins. A. Hollander & Son. No. 152,826; Mar. 7.
- Fur, Unmanufactured. Salomon & Weiner, Inc. No. 160,654; Oct. 24.
- Furs and skins in the piece. Herman Gable & Bro. No. 160,192; Oct. 17.
- Furs dyed to resemble nutria. A. Pierini. No. 159,986; Oct. 10.
- Furs, Prepared. H. Silbert. No. 159,102; Sept. 19.
- Furs, skins, hides, and pelts. Fouke Fur Company. No. 151,130; Jan. 24.
- Furnaces and stoves, Coal, wood, gas, and oil. Mahoning Foundry Co. No. 159,944; Oct. 10.
- Furnaces, Coal, Seattle Pipeless Furnace and Manufacturing Company. No. 160,291; Oct. 17.
- Furnaces, Electricmetallurgical. Pittsburgh Electric Furnace Corporation. No. 151,574; Feb. 7.
- Furnaces for heating buildings. Green Foundry & Furnace Works. No. 160,201; Oct. 17.
- Furnaces, Gas-heated metallurgical. John Wright & Eagle Range, Ltd. No. 153,357; Mar. 14.
- Furnaces, grate frames, grate bars, etc., Solid-fuel. Marion Foundry Corporation. No. 159,948; Oct. 10.
- Furnaces, Heating. H. Gilbert Hart & Co. No. 20,363; renewed Nov. 10, 1921.
- Furnaces, Heating. Howard Furnace Company. No. 22,003; renewed Nov. 15, 1922.
- Furnaces, Hot-air. L. J. Mueller Furnace Co. No. 159,959; Oct. 10.
- Furnaces, standard gas furnaces, gas radiators, Gas-fired floor and warm-air. D. H. McCorkle Mfg. Co. No. 162,643; Dec. 19.
- Furniture. Hadley Company. No. 151,790; Feb. 14.
- Furniture. Lenox Shops, Inc. No. 153,378; Mar. 14.
- Furniture. C. T. Norquist. No. 155,786; June 6.
- Furniture and automobile polish. A. Ouellette. No. 152,926; Mar. 7.
- Furniture and equipment, Certain school. Standard School Equipment Co. No. 159,111; Sept. 19.
- Furniture and metal cleaning preparation. F. Stover. No. 151,958; Feb. 14.
- Furniture and upholstery, Certain. L. R. Gans. No. 155,424; May 30.
- Furniture, automobile, etc., polish. Veneero Lac Company. No. 153,042; Mar. 7.
- Furniture, Bent-wood. Astra Bent Wood Furniture Co. No. 154,820; May 9.
- Furniture, Certain. L. R. Gans. No. 158,345; Aug. 29.
- Furniture, Certain articles of household and office. Fireproof Furniture and Construction Company. No. 150,815; Jan. 10.
- Furniture, Certain household. Bernstein Bros. No. 151,675; Feb. 14.
- Furniture, Certain household. John Breuner Company. No. 153,418; Mar. 21.
- Furniture, Certain household. H. J. Kerlin. No. 161,020; Oct. 31.
- Furniture, Certain household. James McCreery & Company. No. 156,136; June 13.
- Furniture, Certain household. Southern Cabinet & Furniture Co. No. 153,093; Mar. 7.
- Furniture, Certain household and office. Nunner and Ashton Company. No. 159,054; Sept. 19.
- Furniture, Certain household and porch. L. R. Gans. No. 158,158; Aug. 22.
- Furniture, Certain office. Jasper Desk Co. No. 155,461; May 30.
- Furniture, Certain store. Majestic Manufacturing Company. No. 159,031; Sept. 19.
- Furniture, church, school, theater, and office, Certain. American Seating Company. No. 153,396; Mar. 21.
- Furniture finish. American Seating Company. No. 153,098; Mar. 14.
- Furniture, Household and office. Nunner and Ashton Company. No. 157,728; Aug. 15.
- Furniture, Household, office, and porch. Loux Sons. No. 159,022; Sept. 19.
- Furniture made of reed, rattan, and fiber, Certain. The Wickercraft. No. 162,616; Dec. 19.

- Furniture, Office and household. W. & J. Sloane. No. 151,949; Feb. 14.
- Furniture polish. J. Hoeft. No. 153,463; Mar. 21.
- Furniture polish. Miracle Polish Company. No. 150,478; Jan. 3.
- Furniture polish. L. E. Scott. No. 160,288; Oct. 17.
- Furniture, Printers'. Hamilton Manufacturing Company. No. 158,973; Sept. 19.
- Furniture, Reed. Barker Bros. Inc. No. 159,164; Sept. 19.
- Fuse, Nonelectrical safety. Coast Manufacturing & Supply Company. No. 153,138; Mar. 14.
- Fuse, Safety. Consumers Fuse and Powder Company. No. 155,401; May 30.
- Fuse, Safety. Consumers Fuse and Powder Company. No. 160,769; Oct. 24.
- Fuses. Economy Fuse and Manufacturing Co. No. 158,430; Sept. 5.
- Fuses. Protex Fuse Works. No. 152,957; Mar. 7.
- Galvanometers and photographic recording and projecting apparatus employed in connection therewith, String. C. F. Hindle. No. 150,847; Jan. 10.
- Game. A. C. Brude. No. 152,364; Feb. 28.
- Game. A. K. Hager. No. 156,680; July 11.
- Game, Arithmetical card. Teddy Multiplication Game Company. No. 157,593; Aug. 8.
- Game, Blowing. C. McKay. No. 155,476; May 30.
- Game board, Educational. V. O. Watkins. No. 152,541; Feb. 28.
- Game boards. P. H. Levy. No. 151,181; Jan. 24.
- Game boards. G. W. Perks. No. 151,352; Jan. 31.
- Game boards. Roll-O-Racer Company. No. 151,220; Jan. 24.
- Game boards, Fortune-telling. E. N. Hennegan. No. 153,198; Mar. 14.
- Game boards, game indicator, counter, etc., and games played with a counter, indicator, or game piece. E. Bruder. No. 157,879; Aug. 22.
- Game, Indoor baseball. Piroxoid Products Corporation. No. 156,394; June 20.
- Game, in the nature of roulette, Parlor. Rouzette Company. No. 158,794; Sept. 12.
- Game in which a board or table and missiles or playing pieces are employed, Apparatus for playing a. Belasco Mechanics Corporation. No. 158,610; Sept. 12.
- Game of chance. B. O. M. Bonebrake. No. 151,078; Jan. 24.
- Game, Parlor baseball. Champion Game Company. No. 151,096; Jan. 24.
- Game, Parlor table. B. Blankman. No. 160,837; Oct. 31.
- Game sheet, Printed. J. P. Reinig. No. 150,950; Jan. 10.
- Game, Solitaire. Lubbers & Bell Mfg. Co. No. 160,232; Oct. 17.
- Game, Table. V. D. Blank. No. 157,870; Aug. 22.
- Game, Table. Typo Trading Corporation. No. 153,336; Mar. 14.
- Game, Table board. Gamecraft and Toy Company. No. 156,868; July 18.
- Game used in conjunction with a phonograph, Parlor. Phon-O-Game Co. No. 162,578; Dec. 19.
- Games, Board. L. B. Beresford. No. 157,309; Aug. 1.
- Games, Box parlor. Irvin-Smith Company. No. 151,146; Jan. 24.
- Games, Boxed sets of changeable-feature. Irokese Trading Corporation. No. 157,267; July 25.
- Games, Captive-ball device for playing and practice of. Craig Golfmeter Co. No. 154,910; May 16.
- Games, Card. Parker Brothers. No. 157,557; Aug. 8.
- Games, Cardboard golf. F. M. Lewis, Jr. No. 151,183; Jan. 24.
- Games, Indoor baseball. W. J. B. Stewart. No. 162,174; Dec. 5.
- Games, Parlor baseball. I. Fiedler. No. 156,245; June 20.
- Games. Piroxoid Products Corporation. No. 158,060; Aug. 22.
- Games, Racing. Robson & Bowen. No. 158,789; Sept. 12.
- Games. Saml. Gabriel Sons & Company. No. 154,940; May 16.
- Gargle for sore throat. P. O. Nutt. No. 157,367; Aug. 1.
- Garment bags, Moth and dust proof. Ever Ready Garment Bag Co. No. 158,945; Sept. 19.
- Garment for females, Outer. Abe Millman, Inc. No. 160,244; Oct. 17.
- Garment hangers. J. Grimbarg. No. 157,087; July 25.
- Garment hangers. Sutura Manufacturing Co. Nos. 154,158-9; Apr. 4.
- Garment patterns. R. B. Pollock. No. 152,953; Mar. 7.
- Garment-pressing machine. Sunshine-Jasper Company, Inc. No. 151,055; Jan. 10.
- Garment, Rain. R. M. Goldfredrick. No. 156,870; July 18.
- Garment-storage bags. Roseth Corporation. No. 158,792; Sept. 12.
- Garment to be worn both as a sleeping robe and lounging robe. Brownstein-Louis Co. No. 157,015; July 25.
- Garments, Children's. Kuh Brothers. No. 157,124; July 25.
- Garments, Children's. S. B. Preusser. No. 156,036; June 13.
- Garments, Children's sleeping. Beverly Underwear Co. No. 154,490; Apr. 18.
- Garments formed of rubberized cloth. Acid-resisting. Defiance Welding Company. No. 157,922; Aug. 22.
- Garments, Men's outer. J. J. Fatt. No. 157,061; July 25.
- Garments, Men's outer. T. C. Schaffner. No. 155,354; May 23.
- Garments, rompers, dresses, Misses' and children's outer. M. E. Hewett. No. 160,844; Jan. 10.
- Garments, Sleeping. Steiner & Son, Inc. No. 159,227; Sept. 19.
- Garments, Union working. L. F. Metcalf. No. 154,681; Apr. 18.
- Garments, Women's, misses', and children's outer. N. Souter. No. 156,059; June 13.
- Garters. Donley No-Pin Garter Company. No. 151,120; Jan. 24.
- Garters. Everybody's Garter Co. No. 155,958; June 13.
- Garters. Harris Suspender Company. No. 154,563; Apr. 18.
- Garters. R. A. MacHatton. No. 155,477; May 30.
- Garters. R. H. Macy & Co. No. 155,575; May 30.
- Garters. A. Malouf. No. 161,371; Nov. 7.
- Garters, National Garter Company. No. 158,038; Aug. 22.
- Garters. Star Suspender Co. No. 157,585; Aug. 8.
- Garters. Star Suspender Co. Nos. 161,306-7; Nov. 7.
- Garters. B. M. Whitman. No. 158,860; Sept. 12.
- Garters. Wilson Brothers. No. 154,471; Apr. 18.
- Garters, belts for personal wear, suspenders, and armbands. Wilson Brothers. No. 150,651; Jan. 3.
- Garters, Children's and misses'. American Wholesale Corporation (Baltimore Bargain House). Nos. 157,443-50; Aug. 8.
- Garters, suspenders, belts, and armbands. Wilson Brothers. No. 150,649; Jan. 3.
- Garters, Women's and children's elastic. Samstag & Hilder Bros. No. 154,680; Apr. 18.
- Gas apparatus and gas burners. C. M. Kemp Manufacturing Co. No. 159,922; Oct. 10.
- Gas, Carbonic-acid. Liquid Carbonic Company. No. 154,313; Apr. 11.
- Gas, coal, and oil. Kappler-Fox Foundry Co. No. 154,070; Apr. 4.
- Gas cocks. Ulica Valve & Fixture Company. No. 151,057; Jan. 10.
- Gas engines, and certain other machinery. Oil City Engine and Power Company. No. 151,568; Feb. 7.
- Gas filters. Uehling Instrument Company. No. 159,557; Sept. 26.
- Gas logs and stoves. Con-Den-Rit Radiant Log Corporation. No. 160,157; Oct. 17.
- Gas mantles. Lindsay Light Company. Nos. 157,130-31; July 25.
- Gasket-sealing composition. Gum-Ze Manufacturing Co. No. 159,622; Sept. 26.
- Gaskets and composition cork sheets from which gaskets are cut, Composition cork. L. Mundet & Son. No. 160,591; Oct. 24.
- Gaskets, Receptacles for. Victor Manufacturing and Gasket Company. No. 154,175; Apr. 4.
- Gaskets, washers, and packing of cork or cork composition. Armstrong Cork Company. No. 160,371; Oct. 24.
- Gasoline. Associated Oil Company. No. 159,603; Sept. 26.
- Gasolene. Automobile Gasoline Company. No. 153,400; Mar. 21.
- Gasoline. W. H. Barber Co. No. 158,385; Sept. 5.
- Gasoline. Black Hawk Oil Company. No. 158,616; Sept. 12.
- Gasoline. Consolidated Producers and Refiners Co. No. 154,254; Apr. 11.
- Gasoline. Hercules Petroleum Company. No. 154,969; May 16.
- Gasoline. Northern Oil Company. No. 155,495; May 30.
- Gasoline. Refino Company. No. 151,217; Jan. 24.
- Gasoline. Southern Oil Corporation. No. 155,089; May 16.
- Gasoline. Tulsa Oil Products Co. No. 155,099; May 16.
- Gasoline and fuel energizer. Refino Company. Nos. 151,922-3; Feb. 14.
- Gasoline and fuel oil. American Oil Company. No. 158,595; Sept. 12.
- Gasoline and fuel oils. Crown Oil & Wax Co. of Delaware. No. 154,912; May 16.
- Gasoline-engine spark plugs. Wollo Ignition Products Co. No. 155,873; June 6.
- Gasoline, etc., and pumps for same, Storage and pumping units for. Leader Iron Works. No. 154,311; Apr. 11.
- Gasoline improver. W. M. Pugh. No. 150,528; Jan. 3.
- Gasoline intensifier. Clinton Chemical Company. No. 158,921; Sept. 19.
- Gasoline, kerosene, distillate, gas oil, fuel oil, etc. Rio Grande Oil Company. No. 162,351; Dec. 12.
- Gasoline, kerosene, distillate, lubricating oils and greases. Petroleum Products Company. No. 162,853; Dec. 26.
- Gasoline, kerosene, etc. J. T. Morrow. No. 152,890; Mar. 7.
- Gasoline, lubricating, illuminating, and fuel oils. North End Auto Supply Company. No. 151,349; Jan. 31.
- Gasoline, lubricating oils and greases. Dome Oil Company. No. 158,649; Sept. 12.
- Gasoline, naphtha, fuel oils, kerosene, etc. Henry H. Cross Company. No. 158,418; Sept. 5.
- Gasoline, naphtha, kerosene, distillate, fuel oil, etc. Kansas City Fuel Oil Company. No. 153,932; Mar. 28.
- Gasoline tanks, Reserve. Keith Accessories Company. No. 161,702; Nov. 14.
- Gasoline vaporizers for internal-combustion engines. Dorris Motor Car Company. No. 153,700; Mar. 28.

Alphabetical list of trade-marks—Continued.

- Gates. Monmouth Gate & Manufacturing Company. No. 160,586; Oct. 24.
- Gates. Monmouth Gate & Manufacturing Company. No. 161,713; Nov. 14.
- Gauges. Manning, Maxwell & Moore, Inc. No. 161,800; Nov. 21.
- Gauges, etc., Liquid. C. M. Larson. No. 156,698; July 11.
- Gauges, Fluid. Mid West Glass Company. No. 159,459; Sept. 26.
- Gauges, Liquid-indicating. Berge-Rathbun Co. No. 159,276; Sept. 26.
- Gauze and cheesecloth for surgical purposes. D. Langenzen. No. 152,853; Mar. 7.
- Gauze, gauze bandages, and sterilized cotton. Absorbent. W. G. Cleveland Co. Inc. No. 154,250; Apr. 11.
- Gauzes and attachments therefor. Dimension. Pratt & Whitney Company. No. 154,368; Apr. 11.
- Gears. W. H. Diefendorf. No. 155,950; June 13.
- Gears. W. H. Diefendorf. No. 158,339; Aug. 29.
- Gears. Huetter Machine and Tool Co. No. 153,757; Mar. 28.
- Gears. Merkle-Korff Gear Co. No. 156,705; July 11.
- Gelatin. La Societe des Produits Chimiques Coignet. No. 160,782; Oct. 24.
- Gelatin. Prepared. Minute Tapioca Company. No. 160,926; Oct. 31.
- Gelatine. H. M. Sinclair. No. 154,698; Apr. 18.
- Gems, Artificial. R. Richter. No. 152,968; Mar. 7.
- Gems, Imitation. L. J. Rinaldo. No. 155,514; May 30.
- Geneva cordials, brandies, gins, and whiskies. Blankenhym & Nollet. No. 21,170; renewed May 24, 1922.
- Germicide and antiseptic. Saphanol Products Company. No. 155,522; May 30.
- Germicide, disinfectant, and deodorizer for expelling insects and the like from animals. Lyndon Chemical Company. No. 159,938; Oct. 10.
- Germicides and antiseptics. Parke, Davis & Company. No. 157,369; Aug. 1.
- Germicides and antiseptics. Parke, Davis & Company. No. 158,277; Aug. 29.
- Ginger ale. Abner-Drury Company. No. 157,842; Aug. 22.
- Ginger ale. Abner-Drury Company. No. 158,371; Sept. 5.
- Ginger ale. Abner-Drury Company. No. 160,175; Oct. 17.
- Ginger ale. Cantrell & Cochrane, Limited. No. 153,984; Apr. 4.
- Ginger ale. Electrified Water & Machine Company. No. 162,500; Dec. 19.
- Ginger ale. J. J. McLaughlin, Limited. No. 155,002; May 16.
- Ginger ale. Old Scotch Co. No. 155,164; May 16.
- Ginger ale. Peninsula Products Company. No. 157,370; Aug. 1.
- Ginger ale. J. Z. Schonhoff. No. 158,083; Aug. 22.
- Ginger ale. C. W. Schulze. No. 162,366; Dec. 12.
- Ginger ale. White Rock Mineral Springs Company. No. 152,638; Feb. 28.
- Ginger ale. S. P. Wright. No. 153,566; Mar. 21.
- Ginger ale and ginger-ale extract. James Vernor Company. No. 157,600; Aug. 8.
- Ginger ale and ginger-ale extracts. James Vernor Company. No. 157,293; July 25.
- Ginger ale and a nonalcoholic, maltless grape and apple drink. Rouss Syrup Manufacturing Corp. No. 162,583; Dec. 19.
- Ginger ale and root beer. Reid, Murdoch & Co. No. 162,582; Dec. 19.
- Ginger ale and sirup for making the same. W. J. Gibson. No. 157,505; Aug. 8.
- Ginger ale, apple juice, root beer, etc. Boarman & Son. No. 151,085; Jan. 24.
- Ginger ale, ginger beer, sarsaparilla, and bottled soda water. Cantrell & Cochrane Limited. No. 150,761; Jan. 10.
- Ginger ale, lemon soda, sarsaparilla. Hatfield & Bell. No. 160,518; Oct. 24.
- Ginger-ale, root beer, mineral and soda waters. Milwaukee-Waukesha Brewing Company. No. 152,886; Mar. 7.
- Ginger ale, root beer, sarsaparilla, birch beer, etc. Hudor Co. No. 157,981; Aug. 22.
- Ginghams, cotton piece goods. Ely & Walker Dry Goods Company. No. 153,438; Mar. 21.
- Ginghams in the piece. Deep River Mills, Inc. No. 161,451; Nov. 14.
- Ginghams in the piece. Durham Cotton Mfg. Co. No. 152,062; Feb. 14.
- Ginghams in the piece. Herbert B. Lederer Co. No. 152,858; Mar. 7.
- Ginghams in the piece, Dress. Elmlira Cotton Mills Co. No. 162,735; Dec. 26.
- Glandular preparation. E. H. Marcus. No. 153,787; Mar. 28.
- Glass. Corning Glass Works. No. 159,318; Sept. 26.
- Glass. Corning Glass Works. No. 159,854; Oct. 10.
- Glass and glass having wire reinforcements, Plate and rolled. Joseph Elias & Co. No. 159,871; Oct. 10.
- Glass and to prevent fogging. Certain material used for cleaning. P. H. White. No. 162,615; Dec. 19.
- Glass armlets. H. Moriuchi. Nos. 153,251-2; Mar. 14.
- Glass articles, Cut. Pope Cut Glass Company. No. 162,806; Dec. 26.
- Glass baking vessels. McKee Glass Company. No. 159,940; Oct. 10.
- Glass baking vessels. McKee Glass Co. No. 159,942; Oct. 10.
- Glass baking ware. Corning Glass Works. No. 153,430; Mar. 21.
- Glass, Cut. G. L. Borden. No. 157,010; July 25.
- Glass cutters. Smith & Hemenway Company. No. 156,055; June 13.
- Glass, etc., Preparation adapted for cleaning. J. H. Kelly. No. 151,831; Feb. 14.
- Glass, glass tableware, etc., Cut. American Wholesale Corporation, (Baltimore Bargain House.) No. 153,099; Mar. 14.
- Glass, glass tableware, ornamental glassware, etc., Cut and sheet. American Wholesale Corporation, (Baltimore Bargain House.) No. 153,572; Mar. 21.
- Glass globes and reflectors. Holophane Glass Co. Inc. Nos. 150,405-6; Jan. 3.
- Glass paper weights. Buffalo Optical Company. No. 159,294; Sept. 26.
- Glass products. Chicago Glass Products Company. No. 158,637; Sept. 12.
- Glass substitute. B. M. Hovey. No. 152,828; Mar. 7.
- Glassware, Certain. Economy Tumbler Co. No. 156,483; June 20.
- Glassware, Certain. - Marshall Field & Company. No. 162,644; Dec. 19.
- Glassware, Certain heat-resisting. Holcomb & Hoke Mfg. Co. No. 155,447; May 30.
- Glassware, glass bowls, jars, boxes, etc., Table. Ovington Bros. Company. No. 159,731; Oct. 3.
- Glassware, Graduated chemical and laboratory. Kimble Glass Company. Nos. 162,799-800; Dec. 26.
- Glassware, Laboratory, chemical, and surgical. Doerr Glass Company. No. 162,722; Dec. 26.
- Glasses and lorgnettes, Opera. Cartier, Inc. No. 162,699; Dec. 26.
- Glove and veil cases, photo cases, sewing boxes, etc. Hauser & Weil. No. 162,964; Dec. 26.
- Gloves. Goodhand, Smith & John, Inc. No. 157,077; July 25.
- Gloves. Improved Reversible Glove Co. No. 158,989; Sept. 19.
- Gloves. J. & M. Lehman. No. 22,484; renewed Feb. 21, 1923.
- Gloves. S. Schilken. No. 154,692; Apr. 18.
- Gloves. Steinberger Bros. Lobl Co. No. 158,107; Aug. 22.
- Gloves. Wimbelsbacher & Rice. No. 151,286; Jan. 24.
- Gloves and baseball mitts. Des Moines Glove & Mfg. Company. No. 162,060; Dec. 5.
- Gloves and hosiery, Leather and fabric. Moss Glove & Hosiery Co. No. 156,354; June 20.
- Gloves and mittens. Helmholtz Mitten Company. No. 160,207; Oct. 17.
- Gloves and mittens, Cotton. Seneca Glove & Mitten Manufacturing Company. No. 157,204; July 25.
- Gloves and mittens, Fabric. Boss Manufacturing Company. Nos. 158,902-3; Sept. 19.
- Gloves and mittens, Leather. Joseph N. Eisendrath Company. No. 150,342; Jan. 3.
- Gloves, Boxing and fighting. S. Levinson. No. 161,201; Nov. 7.
- Gloves, Cloth. Grewen Fabric Company. No. 157,086; July 25.
- Gloves, Fabric. Fownes Brothers & Co. No. 150,820; Jan. 10.
- Gloves, Fabric. Goldenberg's. No. 158,965; Sept. 19.
- Gloves, Fabric. Goldenberg's. No. 159,186; Sept. 19.
- Gloves, Fabric. Goldenberg's. No. 161,486; Nov. 14.
- Gloves, Fabric. Indianapolis Glove Company. No. 154,584; Apr. 18.
- Gloves, Fabric. Mills & Gibb Corporation. No. 157,152; July 25.
- Gloves, Fabric. J. R. Walrath. No. 161,661; Nov. 14.
- Gloves, Fabric. Wimbelsbacher & Rice. No. 159,243; Sept. 19.
- Gloves, fabric gloves, and mittens, Leather. Ely & Walker Dry Goods Company. Nos. 157,937-8; Aug. 22.
- Gloves, Golf. Holmac, Inc. No. 162,085; Dec. 5.
- Gloves, hosiery, and women's underwear; Fabric for. Van Raalte Company. No. 154,726; Apr. 18.
- Gloves, Kid. Cooper, Coate & Cassey Dry Goods Co. No. 162,957; Dec. 26.
- Gloves, Leather. Clothier, Giles & Co., Limited. No. 162,055; Dec. 5.
- Gloves, Leather. Morrison Bicker Mfg. Co. No. 151,882; Feb. 14.
- Gloves, Leather. Reynier & Cie. Nos. 156,040-2; June 13.
- Gloves, Leather. Reynier & Cie. Nos. 156,401-3; June 20.
- Gloves, Leather and fabric. National Glove Co. No. 157,826; Aug. 15.
- Gloves, Leather and fabric. Steinberger Bros. Lobl Co. Nos. 159,122-3; Sept. 19.
- Gloves, Leather or fabric. Ellsworth & Thayer Mfg. Co. No. 158,156; Aug. 22.
- Gloves, Leather-palm work. U. S. Glove Co. No. 155,182; May 16.
- Gloves, overalls, work shirts, etc. E. B. Merritt. No. 154,028; Apr. 18.
- Gloves, Silk. Cooper, Coate & Casey Dry Goods Co. No. 160,158; Oct. 17.
- Gloves, Skin. Reynier & Cie. No. 157,186; July 25.
- Glue. Baeder Adamson Company. No. 151,310; Jan. 31.

- Glue. F. A. Boyer. No. 160,139; Oct. 17.
 Glue. La Societe des Produits Chimiques Coignet. No. 158,729; Sept. 12.
 Glue. Sherwin-Williams Company. No. 155,078; May 16.
 Glue, adhesive paste, and mucilage. W. E. Fites. No. 155,325; May 23.
 Glue and gelatine. La Societe des Produits Chimiques Coignet. Nos. 158,727-8; Sept. 12.
 Glue, Cement. I. Marcy. No. 150,465; Jan. 3.
 Glue, Millinery. C. T. Smith. No. 159,528; Sept. 26.
 Glue, Veneer. Bitu-Mo-Lin Products Co. No. 158,389; Sept. 5.
 Glues, paste, and sealing wax. W. Zinsser & Company. No. 161,996; Nov. 28.
 Glucose and cornstarch. Corn Products Refining Company. No. 154,522; Apr. 18.
 Goblets, tumblers, cups, dishes, etc. H. Witte. No. 159,650; Sept. 26.
 Goggles. Testrite Instrument Co. No. 151,410; Jan. 31.
 Goggles and eye protectors. Julius King Optical Co. No. 162,527; Dec. 19.
 Gold alloy for dental clasps, etc. Baker & Co. Inc. No. 151,018; Jan. 10.
 Gold alloys for dental purposes. J. M. Ney Company. Nos. 155,028-35; May 16.
 Gold and silver leaf, imitation of or substitutes for. J. L. N. Smythe Company. No. 155,087; May 16.
 Gold, silver, aluminum, composition, ribbon, white and color leaf. F. W. Rauskolb Company. No. 157,433; Aug. 1.
 Gold, White. Goldfarb & Friedberg Inc. No. 160,505; Oct. 24.
 Golf balls. Dunlop Rubber Co. No. 152,024; Feb. 14.
 Golf balls. Holmac, Inc. Nos. 154,054-5; Apr. 4.
 Golf balls. The Dunlop Rubber Co., Ltd. Nos. 151,323-5; Jan. 31.
 Golf balls. United States Rubber Company. No. 152,530; Feb. 28.
 Golf balls and clubs. H. Nalty. No. 155,022; May 16.
 Golf balls, bags, and clubs. J. Grondahl. No. 151,142; Jan. 24.
 Golf-club heads. Metal & Alloy Specialties Company. No. 155,016; May 16.
 Golf-club shafts. Cross Rod & Tackle Co. No. 150,315; Jan. 3.
 Golf clubs. H. I. Jordan. No. 160,218; Oct. 17.
 Golf clubs and iron-headed golf clubs, Iron heads for. Wm. Gibson & Co. No. 157,956; Aug. 22.
 Golf clubs, balls, shafts, heads, grips, etc. Holmac, Inc. No. 156,879; July 18.
 Golf clubs, Steel shafts for. Horton Manufacturing Co. No. 157,980; Aug. 22.
 Golf, Device for enabling a person to study and perfect himself in the game of. Holmac, Inc. No. 157,987; Aug. 22.
 Golf game, Indoor. Putt-Putt Co. No. 160,274; Oct. 17.
 Golf games and putting devices. F. S. Smith. No. 161,983; Nov. 28.
 Golf-stick grips. Marathon Tire and Rubber Company. No. 154,093; Apr. 4.
 Golf-stroke-guiding device. Swingrite Co. No. 151,251; Jan. 24.
 Gongs, Carriage. Muller and Phipps (Asia) Limited. No. 159,449; Sept. 26.
 Gowns, coats, suits, sweaters, etc. C. Frank. No. 154,441; Apr. 11.
 Gowns, frocks, tailored suits, and furs for women. H. Milgrim & Bros. Inc. No. 159,205; Sept. 19.
 Grain and flour and other machinery and certain presses, Certain. Gebrüder Bühler. No. 153,129; Mar. 14.
 Grain bins, watering tanks, and troughs, &c., Metal. California Corrugated Culvert Co. No. 153,421; Mar. 21.
 Grain sprouters, metal nests, etc. Des Moines Incubator Company. No. 152,058; Feb. 14.
 Gramophone needles. H. J. Wenglein's Norica- & Herold-Werke Nurnberg-Schwabacher Nadelabriken G. m. b. H. No. 158,319; Aug. 29.
 Grape juice. J. Hungerford Smith Grape Juice Co. No. 158,706; Sept. 12.
 Grape juice. Reid, Murdoch & Co. No. 158,787; Sept. 12.
 Grape juice and juice from other fruits, Unfermented. Rafael Escofet y Haag. No. 152,038; Feb. 14.
 Grape juice and juice of other fruits, Unfermented. R. Escofet. No. 152,395; Feb. 28.
 Grape juice, ginger ale, etc. H. Kellogg & Sons. No. 162,092; Dec. 5.
 Grape, pineapple, and loganberry juices. California Packing Corporation. No. 154,893; May 16.
 Grapes and vegetables, Fresh. B. Cribari & Sons. No. 162,711; Dec. 26.
 Grapes, Dehydrated. Dried Grape Products Co. No. 154,533; Apr. 18.
 Grapes, dried fruits, and fresh deciduous fruits, Fresh. E. Y. Foley. No. 161,762; Feb. 14.
 Grapes, Fresh. Associated Fruit Co. No. 151,667; Feb. 14.
 Grapes, Fresh. J. Bruno. No. 160,404; Oct. 24.
 Grapes, Fresh. Dinuba Fruit Growers Company. No. 154,784; May 9.
 Grapes, Fresh. Earl Fruit Company. No. 154,537; Apr. 18.
 Grapes, Fresh. E. Y. Foley. No. 161,940; Nov. 28.
 Grapes, Fresh. E. Y. Foley. No. 162,074; Dec. 5.
 Grapes, Fresh. Fairview Grape Growers Ass'n. No. 157,060; July 25.
 Grapes, Fresh. R. Krasnow & Sons. No. 152,448; Feb. 28.
 Grapes, Fresh. Tracy-Waldron Fruit Company. No. 154,717; Apr. 18.
 Grapes, Fresh. Tracy-Waldron Fruit Company. No. 158,587; Sept. 5.
 Graphic charts, ruled sheets used for making. Codex Book Co. No. 156,709; June 20.
 Graphophones or talking machines. Albert Phonograph Co. No. 161,038; Nov. 7.
 Grass cutters and scythes. North Wayne Tool Company. No. 157,552; Aug. 8.
 Grates and stokers. McClave-Brooks Co. No. 157,139; July 25.
 Gravers, chisels, gouges, etc. Hammel Riglander & Co. No. 153,194; Mar. 14.
 Grease and oils, Transmission and differential. J. Hallian. No. 162,511; Dec. 19.
 Grease cups. Mannery Bolt Company. No. 156,246; June 20.
 Grease for treatment of leather shoes, belting, and harness. L. Dohner. No. 157,668; Aug. 15.
 Grease, Lubricating. American Refining Company. No. 154,217; Apr. 11.
 Greases and other lubricating oils and greases, Axle. Snow Flake Axle Grease Company. No. 155,088; May 16.
 Greases, Certain named fuel oils and lubricating oils and. Standard Oil Company. No. 158,820; Sept. 12.
 Greases, Lubricating. Lamson Oil Co. No. 162,437; Dec. 12.
 Greases, magneto oil, &c., Gear, cup, and graphite. R. M. Hollingshead Co. No. 151,331; Jan. 31.
 Greases, Mineral. Panama Lubricants Company. No. 151,203; Jan. 24.
 Greases, oils, etc. Standard Oil Company (Incorporated in New Jersey). No. 159,110; Sept. 19.
 Grinding and polishing stones. Acme Abrasive Company. No. 155,134; May 16.
 Grinding and polishing stones. Acme Abrasive Company. No. 162,461; Dec. 19.
 Grinding and pulverizing mills. Bradley Pulverizer Co. No. 153,670; Mar. 28.
 Grinding machines and attachments. Norton Company. No. 152,471; Feb. 28.
 Grips, satchels, trunks, etc. Seattle Suit Case Manufacturing Co. No. 153,527; Mar. 21.
 Grips, suitcases, trunks, etc. Western Grip & Trunk Co. No. 158,859; Sept. 12.
 Groceries and meats. W. J. Dunklau. No. 159,868; Oct. 10.
 Gum, Chewing. Dudley Gum Company. No. 155,888; June 6.
 Gum, Chewing. Dudley Gum Company. No. 160,452; Oct. 24.
 Gum, Chewing. H. C. Hart. No. 160,096; Oct. 10.
 Gum, Chewing. India Company. No. 157,111; July 25.
 Gum, Chewing. V. Jones. No. 162,524; Dec. 19.
 Gum, Chewing. J. G. Kitchell. No. 156,887; July 18.
 Gum, Chewing. Listerated Gum Corporation. No. 152,316; Feb. 21.
 Gum, Chewing. Mint Gum Company. No. 151,877; Feb. 14.
 Gum, Chewing. Pulver Company. No. 156,738; July 11.
 Gum, Chewing. Sam'l F. Williams, Inc. No. 154,739; Apr. 18.
 Gum, Chewing. Shelby Supply and Manufacturing Company. No. 156,753; July 11.
 Gum, Chewing. Short & Son Co. No. 153,854; Mar. 28.
 Gum, Chewing. Short & Son Co. No. 159,101; Sept. 19.
 Gum shellac. Henry W. Peabody & Co. No. 151,205; Jan. 24.
 Gum, Sugar-coated chewing. Wm. Wrigley Jr. Company. Nos. 159,598-9; Sept. 26.
 Gummed-tape moistening and cutting machines. Metal Specialties Manufacturing Company. No. 155,257; May 23.
 Gummed-tape moistening and cutting machines. Metal Specialties Manufacturing Company. No. 155,261; May 23.
 Gums, Orange shellac. William Zinsser & Company Incorporated. No. 160,337; Oct. 17.
 Gums, rubber cement, Repair. Federal Rubber Company. No. 152,769; Mar. 7.
 Gunpowder. E. I. du Pont de Nemours & Company. No. 155,406; May 30.
 Gun wads. Bond Manufacturing Corporation. No. 161,073; Nov. 7.
 Guns and connections therefor, Grease and oil. I-C Manufacturing Company. No. 152,430; Feb. 28.
 Guns and parts thereof. Grease and oil. R. L. Freudenberger. No. 162,076; Dec. 5.
 Guns for fixed and mobile artillery and naval guns. Bethlehem Steel Company. No. 155,383; May 30.
 Guns, Hunting. V. Sarasqueta. No. 157,281; July 25.
 Gymnastic apparatus for children. Drico Silo Co. No. 153,154; Mar. 14.
 Gypsum and land plaster, Agricultural. United States Gypsum Company. No. 162,396; Dec. 12.
 Gypsum, plaster of Paris, wall plaster, etc., Calcined. United States Gypsum Company. Nos. 160,703-11; Oct. 24.

Alphabetical list of trade-marks—Continued.

- Hack-saw blades. Mayhew Steel Products Inc. No. 156,010; June 13.
 Hack-saw machines. E. C. Atkins & Co. No. 156,501; June 27.
 Hair. L. Levussove. No. 156,135; June 13.
 Hair. Tanners Product Company. No. 161,316; Nov. 7.
 Hair bleach. J. H. Karp. No. 158,469; Sept. 5.
 Hairbrushes. Sanitary Slicker Company. No. 152,625; Feb. 28.
 Hair clippers for toilet use. Certain. American Shearer Manufacturing Company. No. 22,067; renewed Nov. 29, 1922.
 Haircloth. H. M. Schadewald. No. 156,413; June 20.
 Hair cream. Covatt and Smith. No. 162,152; Dec. 5.
 Hair. Cream for use on the human. A. A. Denney. No. 160,172; Oct. 17.
 Hair-curling liquid. B. Hurewich. No. 159,708; Oct. 3.
 Hair curlers. Electro Radite Company. No. 155,683; June 6.
 Hair curlers and wavers. I. Hoffman. No. 153,464; Mar. 21.
 Hair dressing. R. C. Butler. No. 156,195; June 20.
 Hair dressing. J. W. Howard & Son. No. 154,297; Apr. 11.
 Hair dressing. Lewis Brothers. No. 151,842; Feb. 14.
 Hair dye. F. R. Marcel. No. 152,222; Feb. 21.
 Hair dye. Solon Palmer. No. 151,591; Feb. 7.
 Hair-dye remover. Western Hair Goods Co. No. 151,636; Feb. 7.
 Hair dyes. C. Damschinsky. No. 150,322; Jan. 3.
 Hair dyes. La Mira Chemical Co. No. 150,446; Jan. 3.
 Hair dyes. M. Rochon. No. 160,000; Oct. 10.
 Hair dyes, color restorers, and tonics. B. F. Goldman. No. 155,696; June 6.
 Hair eradicator. C. W. Upp. No. 153,895; Mar. 28.
 Hair for mattresses, etc., Curled. Peter Woll and Sons Mfg. Co. No. 156,474; June 20.
 Hair grease, hair oil, and shampoo. R. Chinn. No. 158,200; Aug. 29.
 Hair goods, Human-. A. D. Strehl. No. 157,775; Aug. 15.
 Hair grower. J. Cetrulo. No. 152,131; Feb. 21.
 Hair grower. A. Lavac. No. 151,838; Feb. 14.
 Hair grower. S. E. Moses. No. 150,487; Jan. 3.
 Hair grower. F. B. Stoner. No. 151,603; Feb. 7.
 Hair grower. C. Wiggins. No. 152,297; Feb. 21.
 Hair grower and a preparation for the skin. R. B. Strange. No. 159,770; Oct. 3.
 Hair grower and hair tonic. M. P. Smith. No. 160,974; Oct. 31.
 Hair grower and shampoo. E. J. Bowen. No. 158,392; Sept. 5.
 Hair grower and tonic. Jules Ferond Company. No. 150,428; Jan. 3.
 Hair grower, tonic, and gloss. J. Johnson. No. 159,710; Oct. 3.
 Hair growers. Mrs. B. Parker. No. 150,513; Jan. 3.
 Hair growers, hair pressing oils and perfumes. G. Chastang. No. 154,241; Apr. 11.
 Hair invigorator and tonic. A. E. Hyatt. No. 157,523; Aug. 8.
 Hair lotion. C. F. Root. No. 158,525; Sept. 5.
 Hair nets. American Wholesale Corporation, (Baltimore Bargain House). No. 153,397; Mar. 21.
 Hair nets. American Wholesale Corporation, (Baltimore Bargain House). No. 154,218; Apr. 11.
 Hair nets. F. D. Ammidown. No. 158,599; Sept. 12.
 Hair nets. Armand Company. No. 161,742; Nov. 21.
 Hair nets. A. V. Blatt. No. 153,410; Mar. 21.
 Hair nets. A. V. Blatt. No. 154,881; May 16.
 Hair nets. Brett Manufacturing Company. No. 156,191; June 20.
 Hair nets. C. V. Cheesman, jr. No. 161,436; Nov. 14.
 Hair nets. China American Tobacco Grading Co. No. 153,394; May 30.
 Hair nets. N. B. Cohen. No. 150,776; Jan. 10.
 Hair nets. N. B. Cohen. No. 152,053; Feb. 14.
 Hair nets. N. B. Cohen. No. 152,869; Feb. 28.
 Hair nets. N. B. Cohen. Nos. 157,899-903; Aug. 22.
 Hair nets. L. H. Connor. No. 157,911; Aug. 22.
 Hair nets. Crest Net Company. No. 157,659; Aug. 15.
 Hair nets. R. Denels. No. 159,688; Oct. 3.
 Hair nets. E. B. Dewey. No. 157,666; Aug. 15.
 Hair nets. Eastern Hair Net Trading Co. No. 157,933; Aug. 22.
 Hair nets. Empire Notion Co. No. 152,758; Mar. 7.
 Hair nets. Fan Tan Novelty Co. No. 155,226; May 23.
 Hair nets. J. Fleischer. No. 158,668; Sept. 12.
 Hair nets. J. Fleischer. No. 156,569; June 27.
 Hair nets. J. Fleischer. No. 157,618; Aug. 8.
 Hair nets. French Importing Co. No. 156,250; June 20.
 Hair nets. Fulghum & Company. Nos. 162,755-6; Dec. 26.
 Hair nets. Galchinsky Bros. No. 157,955; Aug. 22.
 Hair nets. Gladly Hair Net Company. No. 152,788; Mar. 7.
 Hair nets. Gladly Hair Net Company. No. 153,176; Mar. 14.
 Hair nets. S. Glemby's Sons Co. No. 156,265; June 20.
 Hair nets. S. Glemby's Sons Co. Nos. 159,696-8; Oct. 3.
 Hair nets. S. Glemby's Sons Co. Nos. 161,480-1; Nov. 14.
 Hair nets. S. Glemby's Sons Co. No. 162,761; Dec. 26.
 Hair nets. Guarantee Hair and Novelty Works. Nos. 153,457-8; Mar. 21.
 Hair nets. Hair Net Importing Co. No. 152,189; Feb. 21.
 Hair nets. Hazel Net Company. Nos. 154,965-6; May 16.
 Hair nets. M. Herzog. No. 156,293; June 20.
 Hair nets. Hochschild Kohn & Co. No. 162,516; Dec. 19.
 Hair nets. Howe Company. No. 154,298; Apr. 11.
 Hair nets. Jordan Marsh Company. No. 157,994; Aug. 22.
 Hair nets. Kaufman Bros. No. 161,516; Nov. 14.
 Hair nets. M. Kaufman. No. 152,439; Feb. 28.
 Hair nets. F. M. Keeler Co. No. 156,315; June 20.
 Hair nets. M. Kepesh. No. 152,441; Feb. 28.
 Hair nets. Keystone Hair Net Imp. Corp. No. 150,863; Jan. 10.
 Hair nets. Keystone Hair Net Imp. Corp. No. 150,943; Jan. 10.
 Hair nets. A. Klar. Nos. 150,865-9; Jan. 10.
 Hair nets. A. Klar. No. 152,089; Feb. 14.
 Hair nets. A. Klar. No. 157,697; Aug. 15.
 Hair nets. G. Klemperer. No. 155,158; May 16.
 Hair nets. G. Klemperer. No. 157,531; Aug. 8.
 Hair nets. G. Klemperer. No. 162,802; Dec. 26.
 Hair nets. B. Lichtig & Son. No. 153,230; Mar. 14.
 Hair nets. Lindeke-Warner & Sons, Inc. No. 162,812; Dec. 26.
 Hair nets. Lorraine Manufacturing & Importing Company. No. 152,451; Feb. 28.
 Hair nets. Lorraine Mfg. and Importing Company. No. 157,705; Aug. 15.
 Hair nets. Marshall Field & Company. No. 161,557; Nov. 14.
 Hair nets. Meyer & Strompen. No. 159,036; Sept. 19.
 Hair nets. Morris, Mann & Reilly. No. 160,657; Oct. 24.
 Hair nets. Morris, Mann & Reilly, Inc. No. 161,567; Nov. 14.
 Hair nets. Morris, Mann & Reilly, Inc. No. 162,557; Dec. 19.
 Hair nets. A. L. Nassau. No. 154,341; Apr. 11.
 Hair nets. National Commodities Company. Nos. 156,362-3; June 20.
 Hair nets. National Hair Goods Co. No. 160,796; Oct. 24.
 Hair nets. National Trading Company. Nos. 150,911-12; Jan. 10.
 Hair nets. National Trading Company. No. 153,499; Mar. 21.
 Hair nets. Neemo Hair Net Co. No. 156,366; June 20.
 Hair nets. New England Supplies Corporation. No. 158,755; Sept. 12.
 Hair nets. New York Merchandise Company. No. 152,913; Mar. 7.
 Hair nets. New York Merchandise Co. Nos. 156,373-5; June 20.
 Hair nets. North American Import Co. No. 162,847; Dec. 26.
 Hair nets. A. E. Oppenheimer & Brother. No. 155,499; May 30.
 Hair nets. Pagoda Import Company. No. 155,167; May 16.
 Hair nets. Pagoda Import Company. No. 162,853; Dec. 26.
 Hair nets. Paristyle Novelty Co. No. 150,925; Jan. 10.
 Hair nets. Paristyle Novelty Co. No. 157,739; Aug. 15.
 Hair nets. Paristyle Novelty Co. No. 159,059; Sept. 19.
 Hair nets. Paristyle Novelty Co. No. 161,582; Nov. 14.
 Hair nets. Penn Rivet Corporation. Nos. 150,927-8; Jan. 10.
 Hair nets. Penn Rivet Corporation. No. 152,941; Mar. 7.
 Hair nets. Richmond Sundry Company. No. 155,176; May 16.
 Hair nets. S. A. Rider Company. No. 152,259; Feb. 21.
 Hair nets. Rieser Company. No. 150,956; Jan. 10.
 Hair nets. Rieser Company. Nos. 159,748-9; Oct. 3.
 Hair nets. Samstag & Hilder Bros. No. 152,980; Mar. 7.
 Hair nets. Samstag & Hilder Bros., Inc. No. 153,297; Mar. 14.
 Hair nets. Samstag & Hilder Bros. No. 154,379; Apr. 11.
 Hair nets. Samstag & Hilder Bros. No. 157,759; Aug. 15.
 Hair nets. R. Scheanblum. No. 157,760; Aug. 15.
 Hair nets. Schneider, Battinus & Simon. No. 161,616; Nov. 14.
 Hair nets. Seidner & Hitzigzrath, Inc. No. 162,890; Dec. 26.
 Hair nets. N. Seligman. No. 152,990; Mar. 7.
 Hair nets. N. Seligman. No. 162,891; Dec. 26.
 Hair nets. Sitroux Importing Company. Nos. 155,082-5; May 16.
 Hair nets. Sitroux Importing Company. Nos. 157,582-3; Aug. 8.
 Hair nets. Sitroux Importing Company. No. 158,095; Aug. 22.
 Hair nets. A. D. Strehl. No. 154,396; Apr. 11.
 Hair nets. C. K. Thau. Nos. 153,547-8; Mar. 21.
 Hair nets. C. K. Thau. No. 158,835; Sept. 12.
 Hair nets. Thomas & Buswell Inc. No. 161,845; Nov. 21.
 Hair nets. Thurn, Browne & Cohen, Inc. No. 157,221; July 25.
 Hair nets. Trimount Trading Company. No. 156,444; June 20.
 Hair nets. United States Hair Net Co. No. 158,126; Aug. 22.
 Hair nets. M. Wahl & Son. No. 153,346; Mar. 14.
 Hair nets. Walker Stetson Company. No. 158,849; Sept. 12.
 Hair nets. Waugh & Co. No. 153,560; Mar. 21.
 Hair nets. Western Bottle Manufacturing Company. No. 152,295; Feb. 21.

Alphabetical list of trade-marks—Continued.

- Hair nets. William T. Palmer & Company. No. 161,580; Nov. 14.
- Hair nets. C. Wolton. No. 156,588; July 4.
- Hair nets. Wondernette Company. No. 158,869; Sept. 12.
- Hair nets and handkerchiefs. Gilman Bros. No. 152,407; Feb. 28.
- Hair nets and veils. Benjamin S. Freedman Co. No. 150,670; Jan. 3.
- Hair nets and veils. Benjamin S. Freedman Co. No. 160,771; Oct. 24.
- Hair nets and veils. Sitroux Importing Company. No. 155,528; May 30.
- Hair nets. Human-. East and West Trading Corporation. No. 157,495; Aug. 8.
- Hair nets. Human-. Frazar & Company. No. 161,477; Nov. 14.
- Hair nets. Human-. M. Goldaber & Co. No. 159,700; Oct. 3.
- Hair nets. Human-. Metropolitan Hair Goods Co. No. 155,485; May 30.
- Hair nets of human hair. Karp Brothers, Inc. No. 152,842; Mar. 7.
- Hair nets. Sanitary human-. National Commodities Co. No. 156,717; July 11.
- Hair nets. Sanitary human-. National Commodities Co. No. 162,841; Dec. 26.
- Hairpins. Sta-Rite Hair Pin Co. No. 158,822; Sept. 12.
- Hairpins. S. Beaumont & Fils. No. 162,675; Dec. 26.
- Hairpins. Empire Notion Co. No. 151,749; Feb. 14.
- Hairpins. Empire Notion Co. No. 155,679; June 6.
- Hairpins. Newey Bros. Ltd. No. 162,327; Dec. 12.
- Hairpins and safety pins. Muller and Phipps (Asia) Ltd. No. 157,720; Aug. 15.
- Hairpins, combs, barrettes, and hair ornaments. Pacific Novelty Company. No. 157,828; Aug. 15.
- Hairpins. Wire. Samstag & Hilder Bros. No. 151,934; Feb. 14.
- Hair pomades. P. L. Diver. No. 161,117; Nov. 7.
- Hair. Pomatum dressing for the. Pannett & Neden. No. 158,276; Aug. 29.
- Hair preparation, Liquid. J. H. Wilson. No. 154,422; Apr. 11.
- Hair. Preparation used in washing the. T. E. Dilley. No. 153,698; Mar. 28.
- Hair preparation. J. Pupley. No. 159,743; Oct. 3.
- Hair. Preparation for the. R. L. Watkins Company. No. 160,998; Oct. 31.
- Hair remover. E. Burnham, Inc. No. 159,826; Oct. 10.
- Hair remover. Pan American Pharm. Co. No. 157,368; Aug. 1.
- Hair remover, Superfluous-. M. Wunder. No. 151,649; Feb. 7.
- Hair restorative. Armstrong Chemical Company. No. 151,422; Feb. 7.
- Hair restorer. S. Bieganski. No. 150,252; Jan. 3.
- Hair restorer. M. Burnham. No. 158,197; Aug. 29.
- Hair restorer. J. H. Krumrein. No. 161,196; Nov. 7.
- Hair restorer. R. Logar. No. 159,021; Sept. 19.
- Hair restorer. W. E. Riley & Company. No. 151,581; Feb. 7.
- Hair restorer. J. B. Sharp. No. 158,807; Sept. 12.
- Hair restorers. J. W. Hornsey. No. 158,985; Sept. 19.
- Hair restorers. E. L. Patten. No. 160,940; Oct. 31.
- Hair rolls and puffs. Hairlight Company. No. 157,677; Aug. 15.
- Hair shampoo. A. A. Krueger. No. 158,243; Aug. 29.
- Hair shampoo. Mar-velle Toilet Company. No. 153,791; Mar. 28.
- Hair. Solution for lightening the shade of. J. S  n  gas. No. 152,267; Feb. 21.
- Hair straightener. L. R. Conwell. No. 153,685; Mar. 28.
- Hair tints. Oxyzen Company. Nos. 153,816-7; Mar. 28.
- Hair toner. P. H. Jackson. No. 151,516; Feb. 7.
- Hair tonic. Atlanta Barbers' Supply Co. No. 154,220; Apr. 11.
- Hair tonic. S. Basso. No. 161,055; Nov. 7.
- Hair tonic. J. H. Bishop. No. 151,432; Feb. 7.
- Hair tonic. E. A. Burrell. No. 151,293; Jan. 24.
- Hair tonic. A. R. Byles. No. 157,883; Aug. 22.
- Hair tonic. S. Caporale. No. 157,886; Aug. 22.
- Hair tonic. Conner & Walters Company. No. 150,311; Jan. 3.
- Hair tonic. Conner & Walters Company. No. 153,427; Mar. 21.
- Hair tonic. M. A. B. Dishmond. No. 155,668; June 6.
- Hair tonic. Dixie Laboratories. No. 161,118; Nov. 7.
- Hair tonic. Geraldine Company. No. 155,694; June 6.
- Hair tonic. L. B. Hair Tonic Co. No. 153,781; Mar. 28.
- Hair tonic. C. E. Hoffman Company. Nos. 156,298-9; June 20.
- Hair tonic. S. A. Johnson. No. 150,427; Jan. 3.
- Hair tonic. A. Mell. No. 161,228; Nov. 7.
- Hair tonic. T. Noonan & Sons Company. No. 150,498; Jan. 3.
- Hair tonic. K. A. O'Connor. No. 158,044; Aug. 22.
- Hair tonic. H. Ohrt. No. 152,101; Feb. 14.
- Hair tonic. A. L. Parker. No. 156,385; June 20.
- Hair tonic. J. Potaschnik. No. 152,256; Feb. 21.
- Hair tonic. Quinorient Company. No. 158,285; Aug. 29.
- Hair tonic. J. Ranciar. No. 160,956; Oct. 31.
- Hair tonic. A. E. Renaud. No. 154,370; Apr. 11.
- Hair tonic. M. Rowe. No. 151,586; Feb. 7.
- Hair tonic. Seville Laboratories. No. 155,355; May 23.
- Hair tonic. M. Shaffer Company. No. 161,296; Nov. 7.
- Hair tonic. L. A. Stelmets. No. 152,278; Feb. 21.
- Hair tonic. Suregrow Hair Tonic Company. No. 159,616; Jan. 3.
- Hair tonic. P. H. Warshaw. No. 160,997; Oct. 31.
- Hair tonic. F. B. Weidler. No. 151,632; Feb. 7.
- Hair tonic. L. L. Williams. No. 151,643; Feb. 7.
- Hair tonic and dandruff remedies. Crown Supply Company. No. 154,257; Apr. 11.
- Hair tonic and lotion. R. L. Vibert. No. 154,410; Apr. 11.
- Hair tonic and pomade. H. V. Adams. No. 161,037; Nov. 7.
- Hair tonic and restorer. J. Borell. No. 161,075; Nov. 7.
- Hair tonic and restorer. J. L. Hunt. No. 153,759; Mar. 28.
- Hair tonic and shampoo. P. G. McCollum. No. 157,357; Aug. 1.
- Hair tonic, dandruff remedy. G. F. Melchior. No. 151,543; Feb. 7.
- Hair tonic, massage cream, toilet water. L. Auerbach. No. 155,605; June 6.
- Hair-tonic relieving excessive oil. E. Burnham, Inc. No. 159,827; Oct. 10.
- Hair tonic, shampoo, and external liniment. G. Spear. No. 156,429; June 20.
- Hair tonics. Atlanta Barbers' Supply Co. No. 160,822; Oct. 31.
- Hair tonics. G. W. Dunleavy. No. 157,325; Aug. 1.
- Hair tonics. G. W. Dunleavy. No. 161,122; Nov. 7.
- Hair tonics. L. B. Franchina. No. 151,480; Feb. 7.
- Hair tonics. S. Kovac. No. 159,714; Oct. 3.
- Hair tonics. O. Peterson. No. 154,128; Apr. 4.
- Hair tonics. Teague and Filmer. No. 154,399; Apr. 11.
- Hair tonics. Wauchula Chemical Company. No. 152,293; Feb. 21.
- Hair tonics and dandruff preventive. Atlanta Barbers' Supply Company. No. 161,680; Nov. 14.
- Hair tonics and dressings. Melchior Supply Co. No. 150,471; Jan. 3.
- Hair tonics and dressings. G. G. Waldron. No. 158,137; Aug. 22.
- Hair tonics and dressings, toilet water, bay rum. Maxall Chemical Company. No. 154,329; Apr. 11.
- Hair tonics, perfumes, etc. R. Julian. No. 158,239; Aug. 29.
- Hair tonics, shampoo, hair pomade. M. Miller. No. 158,355; Aug. 29.
- Hair-waving apparatus. Hot-air. Gem Air Permanent Wave Co. No. 156,258; June 20.
- Hair-waving appliances, Electrical. Permanent Wave Machine & Supply Corporation. No. 153,276; Mar. 14.
- Hair-waving fluid, shampoos, and henna wash. L. M. Garrity & Co. No. 153,591; Mar. 21.
- Hair wavers. Hayes and Meserole Mfg. Co. No. 162,774; Dec. 26.
- Hair wavers. Joseph W. Schloss Co. No. 155,819; June 6.
- Hair wavers, curlers, and crimpers. L. M. Garrity & Co. No. 158,960; Sept. 19.
- Hair wavers, ornaments and binders, combs. L. M. Garrity & Co. No. 152,067; Feb. 14.
- Hams. Eckert Packing Company. No. 162,732; Dec. 26.
- Hams. Patrick Young Company. No. 156,907; July 18.
- Hams and bacon. E. Godel & Sons. No. 154,791; May 9.
- Hams and bacon. Imperial Packing Company. No. 19,838; renewed July 7, 1921.
- Hams, bacon, and lard. Hatley Brothers Company. No. 158,975; Sept. 19.
- Hams, bacon, and lard. Patrick-Young Co. No. 156,729; July 11.
- Hams, bacon, lard, frankfurters, etc. Rosslyn Packing Co. No. 159,213; Sept. 19.
- Hams, bacon, lard, frankfurters, sausage, etc. Rosslyn Packing Co. No. 154,676; Apr. 18.
- Hams, bacon, picnic hams, dried beef, etc. John Morrell & Company. No. 150,484; Jan. 3.
- Hams, bacon, shoulders, lard, etc. Power Packing Plant. No. 160,629; Oct. 24.
- Hams, bacon, butter, eggs, and sausage. Becker Provision Co. No. 159,274; Sept. 26.
- Hammers. John N. Lindsley Inc. No. 156,329; June 20.
- Hammers and drills and repair parts thereof. Chicago Pneumatic Tool Company. No. 151,448; Feb. 7.
- Hammers and metal and wood lathes, Machine forging. Little Giant Company. No. 154,766; May 2.
- Hammers, hatchets, axes, adzes, and sledges. Handled. Fayette R. Plumb, Incorporated. No. 157,373; Aug. 1.
- Hammers, Power. C. C. Bradley & Son. No. 155,934; June 13.
- Hammers, Riveting. Cleveland Pneumatic Tool Company. No. 157,617; Aug. 8.
- Handbag frames, Ladies'. Pichel Company. No. 150,521; Jan. 3.
- Handbags, Ladies'. M. Diamond & Co. No. 151,118; Jan. 24.
- Handbags, Ladies'. Trianon Co. No. 153,334; Mar. 14.
- Handbags, Ladies'. Warschauer & Roth. No. 150,641; Jan. 3.
- Handbags, ladies' satchels. Morgenstern & Brill. No. 154,338; Apr. 11.
- Handbags, Leather. Ryan-Cushing Company. No. 152,490; Feb. 28.
- Handkerchiefs. Acheson-Harden Co. No. 157,844; Aug. 22.

Alphabetical list of trade-marks—Continued.

- Handkerchiefs. Thomas Carter & Sons, Inc. No. 161,432; Nov. 14.
- Handkerchiefs. H. Engel & Sons. Nos. 161,458-60; Nov. 14.
- Handkerchiefs. John V. Farwell Company. Nos. 162,746-7; Dec. 26.
- Handkerchiefs. M. W. Heiss. No. 150,398; Jan. 3.
- Handkerchiefs. Henry H. Leon Co. No. 154,994; May 16.
- Handkerchiefs. S. W. Magnus & Co. No. 161,543; Nov. 14.
- Handkerchiefs. Daniel T. Patton and Company. No. 153,273; Mar. 14.
- Handkerchiefs. Penn Drug Specialty Co. No. 152,940; Mar. 7.
- Handkerchiefs. G. W. Sterling and Co. No. 162,902; Dec. 26.
- Handkerchiefs. Western Bottle Manufacturing Company. No. 162,939; Dec. 26.
- Handkerchiefs. Wilson Brothers. No. 158,865; Sept. 12.
- Handkerchiefs and bandannas. Empire Silk Company. Nos. 156,237-8; June 20.
- Handkerchiefs, Cotton. Gribbon Company. No. 159,703; Oct. 3.
- Handle extensions. Peterson and Goodman. No. 155,048; May 16.
- Hard and nonbreakable material for making various articles. Comparatively. Oliver Sherwood Co. No. 160,261; Oct. 17.
- Hardware. Fairbanks Co. No. 150,356; Jan. 3.
- Hardware. Stanley Works. No. 152,513; Feb. 28.
- Hardware and plumbing and steam-fitting supplies. Power Supply Company. No. 162,868; Dec. 26.
- Hardware and plumbing supplies. Certain. J. A. Sexauer Mfg. Co. No. 162,650; Dec. 19.
- Hardware. Certain. American Steel & Wire Company of New Jersey. No. 162,027; Dec. 5.
- Hardware. Certain articles of. Bassick Company. No. 154,226; Apr. 11.
- Harness bits, stirrups, harness buckles, and rings, chains, etc. Haddfields Limited. No. 151,156; Jan. 24.
- Harness for infants, Safety. K. E. Hobgen. No. 161,366; Nov. 7.
- Harness for horses, Parts of. Rubber & Celluloid Products Company. No. 151,222; Jan. 24.
- Harness hardware. John Dewsbury & Son, Limited. No. 158,933; Sept. 19.
- Harness, saddies, and horse collars. Hess and Hopkins Leather Company. No. 159,189; Sept. 19.
- Harness, saddies, bridles, etc. Schoellkopf Co. No. 156,746; July 11.
- Hat linings, Ready-made. L. J. Schiller. No. 156,812; July 11.
- Hats. Calyork Manufacturing Company. No. 155,633; June 6.
- Hats. E. Furcht. No. 161,363; Nov. 7.
- Hats. Gano-Downs Clothing Company. No. 154,550; Apr. 18.
- Hats. I. Greenfield. No. 161,365; Nov. 7.
- Hats. Hammell-Neuman Co. No. 155,701; June 6.
- Hats and bonnets for ladies, misses, and young boys, and trimmings therefor. C. E. Taylor. No. 22,090; renewed Nov. 29, 1922.
- Hats and caps. Bell Cap Company. No. 158,891; Sept. 19.
- Hats and caps. Forman & Levinson. No. 160,185; Oct. 17.
- Hats and caps. B. L. Gram. No. 151,782; Feb. 14.
- Hats and caps. Kaplan, Scheuerle & Doyne. No. 158,999; Sept. 19.
- Hats and caps. Samuel Miller & Co. No. 151,874; Feb. 14.
- Hats and caps. Samuel Miller & Co. No. 154,634; Apr. 18.
- Hats and caps. Siegel Brothers. No. 154,695; Apr. 18.
- Hats and caps for men. J. T. Hardeman Hat Co. No. 151,161; Jan. 24.
- Hats and caps for men and boys. Freed & Company. No. 157,069; July 25.
- Hats and caps, Men's. Graf-Rosen Co. No. 158,967; Sept. 19.
- Hats and caps, Men's and boys'. Henry Sonneborn & Co. Inc. No. 157,584; Aug. 8.
- Hats and caps, Men's and boys'. J. Wall. No. 154,457; Apr. 11.
- Hats and caps, Men's and boys'. J. Wall. No. 158,854; Sept. 12.
- Hats and caps, Men's and children's. D. E. Loewe & Co. No. 156,947; July 18.
- Hats and caps, Men's and children's. D. E. Loewe & Co. No. 157,137; July 25.
- Hats and caps, Men's, young men's and boys'. Straw-bridge & Clothier. No. 161,311; Nov. 7.
- Hats and furs, Women's. Bes-Ben Shop. No. 160,137; Oct. 17.
- Hats and gowns, Ladies'. J. J. Jonas. No. 156,314; June 20.
- Hats and hat frames, Ladies' trimmed and untrimmed. I. Tannenbaum. No. 157,592; Aug. 8.
- Hats, Boys' and men's. Cornelius Weiss, Inc. No. 151,003; Jan. 10.
- Hats, caps, and helmets. Christy & Compy Limited. No. 162,954; Dec. 26.
- Hats, caps, gloves, and mittens, Men's. Keith Brothers & Co. No. 154,595; Apr. 18.
- Hats, caps, shirts, etc. Leon's Inc. No. 154,605; Apr. 18.
- Hats for ladies, misses, and children. Ogus, Rabinovitch and Ogus Co. No. 158,045; Aug. 22.
- Hats for men. Bonar-Phelps Company. No. 157,255; July 25.
- Hats for men. Bonar-Phelps Company. No. 161,072; Nov. 7.
- Hats for men, Straw. K. & K. Panama Hat Company. No. 161,701; Nov. 14.
- Hats for women. A. C. Ammenheuser. No. 153,921; June 13.
- Hats for women. Kohn, Adler & Co. No. 157,999; Aug. 22.
- Hats for women and children. Chicago Bargain House. No. 161,099; Nov. 7.
- Hats, Harvest. Superior Hat Company. No. 155,181; May 16.
- Hats, Ladies'. Frank W. Abbott Corporation. No. 160,119; Oct. 17.
- Hats, Ladies'. Phil Berlinger & Co. No. 154,489; Apr. 18.
- Hats, Ladies'. Bud Hat Company. Nos. 155,650-1; June 6.
- Hats, Ladies'. Fink-Cimiotti, Inc. No. 156,866; July 18.
- Hats, Ladies'. Green, Stein & Kurzweil. No. 160,774; Oct. 24.
- Hats, Ladies'. Hodge-Falk Corporation. No. 161,502; Nov. 14.
- Hats, Ladies'. H. S. Morris. No. 160,245; Oct. 17.
- Hats, Ladies'. Paige Hat Co. No. 157,829; Aug. 15.
- Hats, Ladies'. Quaker Hat Company. No. 157,180; July 25.
- Hats, Ladies'. R. Racine. No. 156,810; July 11.
- Hats, Ladies'. M. Saltzman. No. 156,410; June 20.
- Hats, Ladies'. M. Saltzman. No. 157,578; Aug. 8.
- Hats, Ladies'. Harry Solomons & Son. No. 156,927; July 18.
- Hats, Ladies'. Stronge and Warner Company. No. 158,827; Sept. 12.
- Hats, Ladies'. Weyman Brothers. No. 154,736; Apr. 18.
- Hats, Ladies', misses', and children's. Ogus, Rabinovitch and Ogus Co. No. 155,790; June 6.
- Hats, Ladies', misses', and children's trimmed. Lichtenstein-Mittenthal Company. No. 160,229; Oct. 17.
- Hats, Ladies' trimmed. Scully Brothers & Co. No. 160,200; Oct. 17.
- Hats, Ladies' trimmed. Staadecker & Co. No. 156,929; July 18.
- Hats, Ladies' trimmed and tailored. Sig. Weisenburger & Co. No. 158,857; Sept. 12.
- Hats, Ladies' trimmed and untrimmed. S. Wolf. No. 154,463; Apr. 11.
- Hats, Men's. Bonar-Phelps Company. Nos. 157,006-8; July 25.
- Hats, Men's. Denzer, Goodhart & Co. No. 157,045; July 25.
- Hats, Men's. The Fair. No. 156,120; June 13.
- Hats, Men's. The Fair. No. 160,180; Oct. 17.
- Hats, Men's. O'Rourke, Eubanks Hat Co. No. 158,047; Aug. 22.
- Hats, Men's and boys'. W. C. Bill. No. 151,676; Feb. 14.
- Hats, Men's and boys'. E. W. Bill. No. 154,491; Apr. 18.
- Hats, Men's and boys'. E. W. Bill. Nos. 155,930-1; June 13.
- Hats, Men's and women's. Davis-Pope Company. No. 156,227; June 20.
- Hats, Men's felt. F. Berg & Company. No. 157,803; Aug. 15.
- Hats, Men's felt. F. Berg & Co. No. 157,866; Aug. 22.
- Hats, Men's straw. Arenjay Hat Co. No. 156,098; June 13.
- Hats, overcoats, suits, raincoats, etc., Men's. J. David. No. 160,167; Oct. 17.
- Hats, Women's. A. G. Freeman Co. No. 155,965; June 13.
- Hats, Women's. Irene Malloy Hat Company. No. 156,342; June 20.
- Hats, Women's. Saks & Company. No. 162,020; Nov. 28.
- Hats, Women's. Saks & Company. No. 157,198; July 25.
- Hats, Women's. M. J. West. No. 151,280; Jan. 24.
- Hats, Women's and children's. W. H. Littlefield and Company. Nos. 157,132-5; July 25.
- Hats, Women's, men's, and children's. S. Schiller. No. 154,686; Apr. 18.
- Hats, Women's, misses', and children's. Joseph Loeb Company. No. 160,233; Oct. 17.
- Hats, Women's, misses', girls', and children's. Wm. Plene's Sons Company. No. 155,962; June 13.
- Hats, Woven fabric. E. Israel. No. 161,172; Nov. 7.
- Hay, Baled. C. M. Link. No. 154,084; Apr. 4.
- Heading and sealing machines. Can. Seattle-Astoria Iron Works. No. 157,627; Aug. 8.
- Headlight control. Stephens Safety Auto Light Co. No. 160,978; Oct. 31.
- Headlight lenses. Beckley-Ralston Co. No. 153,117; Mar. 14.
- Headlight lenses. R. T. Wing. No. 154,186; Apr. 4.
- Headlights and reflectors, Electric locomotive. Fyle-National Company. No. 161,025; Oct. 31.
- Healing compound for sores and wounds. Gadamoski Bros. No. 158,959; Sept. 19.
- Healing powder. A. Augis. No. 156,170; June 20.
- Healing powder, Antiseptic. R. E. Knight. No. 153,775; Mar. 28.
- Healing powder for the feet, Antiseptic. W. L. Austin. No. 155,606; June 6.
- Heat-retaining material, Certain. J. R. Wood. No. 156,088; June 13.

Alphabetical list of trade-marks—Continued.

- Heater cords. Driver-Harris Company. No. 158,428; Sept. 5.
- Heating and ventilating systems, etc. Buffalo Forge Company. No. 152,696; Mar. 7.
- Heating appliances, Chemical. L. J. Wertheimer. No. 153,052; Mar. 7.
- Heating units, Electric. P. F. Apfel. No. 151,420; Feb. 7.
- Heaters and cookstoves. Nash Hardware Company. No. 160,247; Oct. 17.
- Heaters and furnaces, Warm-air. Success Heater and Manufacturing Company. Nos. 159,230-1; Sept. 19.
- Heaters and furnaces, Warm-air. Success Heater and Manufacturing Company. No. 162,906; Dec. 26.
- Heaters and heat exchanges. Griscom-Russell Company. No. 154,038; Apr. 4.
- Heaters, coolers, condensers, etc. Alberger Heater Company. No. 161,677; Nov. 14.
- Heaters for hair-drying apparatus and curling irons, Gas. R. H. Brown. No. 159,821; Oct. 10.
- Heaters for heating liquids, Electric. Ford & Maunio, Inc. No. 161,139; Nov. 7.
- Heaters, lamps, ranges, grills, and cooking stoves, certain fixtures and parts thereof. Eclipse Light Company. No. 156,512; June 27.
- Heaters, lanterns, stoves, etc. John Dunn, Son & Co. No. 159,339; Sept. 26.
- Heaters, Water. Thermal Appliance Company. No. 160,308; Oct. 17.
- Hedge trimmers. J. C. Dettra. No. 152,384; Feb. 28.
- Heel linings. L. G. & S. S. Co. No. 154,608; Apr. 18.
- Heels for footwear, Resilient. A. L. Runyan. No. 157,196; July 25.
- Heels for shoes, Combination leather and rubber. J. K. Krieg Company. No. 157,271; July 25.
- Heels, Wood. Gray-Hathaway Wood Heel Company. No. 157,082; July 25.
- Hemoglobin medical tablets. E. F. Mattutat. No. 150,470; Jan. 3.
- Hemoglobinometers and hemoalkalimeters. A. Dare. No. 153,433; Mar. 21.
- Herb teas. Polonia Medicine Company. No. 157,430; Aug. 1.
- Hexamethylenamin in powder and tablet. Merck & Co. No. 152,230; Feb. 21.
- Hinges, particularly windshield hinges. City Brass Works Co. No. 158,201; Aug. 29.
- History of the United States, Series of volumes of epochal. Yale University Press. No. 159,160; Sept. 19.
- Hog and beef products. Nelson, Morris & Co. No. 20,175; renewed Sept. 29, 1921.
- Hog and beef products. Nelson Morris & Co. No. 20,377; renewed Nov. 17, 1921.
- Hog cholera, Liquid compound for treating. Y. H. Watts & Co. No. 154,416; Apr. 11.
- Hog cholera, Preparation to be used in treatment of. Nuforal Laboratories Inc. No. 151,567; Feb. 7.
- Hogs and marking the ears of animals, Instruments for slitting the noses of. Estate of A. C. Decker. No. 162,058; Dec. 5.
- Hoists. Washburn & Granger Inc. No. 160,324; Oct. 17.
- Hones. Shapleigh Hardware Company. No. 157,765; Aug. 15.
- Honey. J. S. Gross. No. 152,805; Mar. 7.
- Honey. J. W. King. No. 154,598; Apr. 18.
- Honey. A. I. Root Company. No. 151,927; Feb. 14.
- Honey. A. J. Schultz. No. 151,938; Feb. 14.
- Honey and bee comb foundation. Superior Honey Company. No. 162,456; Dec. 12.
- Honey, olive oil, peanut butter, fruit jam, etc. Hoffman and Hauck, Inc. No. 156,300; June 20.
- Hoof pads. Federal Rubber Company. Nos. 150,357-9; Jan. 3.
- Hoof pads. Federal Rubber Company. Nos. 151,127-8; Jan. 24.
- Hooks and eyes. Jordan Marsh Company. No. 157,695; Aug. 15.
- Hooks and eyes. Richardson & De Long Bros. No. 21,076; renewed May 3, 1922.
- Hooks and eyes for garments. Richardson & De Long Bros. No. 20,923; renewed Apr. 5, 1922.
- Hooks and eyes, hook and eye tape, and safety pins. De Long Hook and Eye Company. No. 158,932; Sept. 19.
- Hooks, gut leaders, and artificial flies, Snelled. Enterprise Manufacturing Company. No. 161,129; Nov. 7.
- Horns or warning signals. Automatic electric. Briggs & Stratton Company. No. 162,202; Dec. 12.
- Hops. Decatur Brewing Company. No. 153,148; Mar. 14.
- Hops. Klatcher & Lorenz, Inc. No. 156,318; June 20.
- Hops. Malt Extract Co. No. 156,535; June 27.
- Hops. P. Sonnenschein. No. 151,246; Jan. 24.
- Horns and mechanical horns, Bulb. Clayton-Wright Ltd. No. 151,102; Jan. 24.
- Horns, Diaphragm. Seiss Manufacturing Company. No. 160,662; Oct. 24.
- Horological instruments, Certain. G. Hollinwood. No. 155,244; May 23.
- Horse blankets or covers. Burlington Blanket Company. No. 21,249; renewed June 7, 1922.
- Horse, mule, and pony shoes and calks. American Steel & Wire Company of New Jersey. No. 158,597; Sept. 12.
- Horseshoe heel and toe calks. Aetna Nut Co. No. 151,311; Jan. 31.
- Horseshoeing apparatus. A. Szabo. No. 157,591; Aug. 8.
- Horseshoes. Giant Grip Mfg. Co. No. 158,963; Sept. 19.
- Horses and mules. R. A. Fairbairn. No. 151,126; Jan. 24.
- Horses, Knockdown children's. Morton E. Converse and Son Co. No. 151,106; Jan. 24.
- Horses on wheels for children. A. A. Magee. No. 159,450; Sept. 26.
- Hose. B. Rosenthal. No. 155,810; June 6.
- Hose and belting. B. F. Goodrich Company. No. 159,883; Oct. 10.
- Hose and machine belting, Hydraulic. New Jersey Car Spring and Rubber Co. No. 18,744; renewed Dec. 30, 1920.
- Hose and machine belting, Hydraulic fire. New Jersey Car Spring and Rubber Company. No. 18,706; renewed Dec. 16, 1920.
- Hose, Boys' ribbed. J. P. Voorhees. No. 157,237; July 25.
- Hose clamps. B. A. Tetzlaff. No. 153,878; Mar. 28.
- Hose clamps. Universal Industrial Corporation. Nos. 150,992-3; Jan. 10.
- Hose composed of rubber and fabric. Ingersoll-Rand Company. No. 154,827; May 9.
- Hose composed of rubber and fabric. Ingersoll-Rand Company. No. 160,536; Oct. 24.
- Hose couplings. Cleveland Pneumatic Tool Company. No. 155,882; June 6.
- Hose, Golf. J. A. Panarello. No. 161,253; Nov. 7.
- Hose made of cotton and rubber and hose made of linen. United States Rubber Company. No. 160,035; Oct. 10.
- Hose, Men's, ladies', and children's cotton, silk, and woolen. L. C. Vaughan. No. 156,935; July 18.
- Hose reel, Air. O. Stroberger. No. 151,364; Jan. 31.
- Hose, Silk. Largman, Gray Company. No. 159,014; Sept. 19.
- Hose supporters. W. L. Deming. No. 161,111; Nov. 7.
- Hose supporters and garters. Eagle Suspender & Belt Co. Inc. No. 157,494; Aug. 8.
- Hose supporters, arm bands, and garters. I. Goldberg. No. 157,508; Aug. 8.
- Hosiery. Ansbacher & Van Baalen. No. 160,370; Oct. 24.
- Hosiery. Auto Knitter Hosiery Company. No. 154,480; Apr. 18.
- Hosiery. Belmont Hosiery Company. No. 161,057; Nov. 7.
- Hosiery. R. Berman. No. 157,002; July 25.
- Hosiery. Bestex Hosiery Co. No. 156,836; July 18.
- Hosiery. Bestex Hosiery Co. No. 158,895; Sept. 19.
- Hosiery. J. H. Blaetz. Nos. 161,066-7; Nov. 7.
- Hosiery. T. B. Brown. No. 155,935; June 13.
- Hosiery. Burson Knitting Company. No. 151,694; Feb. 14.
- Hosiery. Burson Knitting Company. No. 155,142; May 16.
- Hosiery. Burson Knitting Company. No. 157,018; July 25.
- Hosiery. Cadet Knitting Company. Nos. 151,093-4; Jan. 24.
- Hosiery. Calton Manufacturing Company. No. 158,913; Sept. 19.
- Hosiery. A. K. Clarke. No. 157,270; July 25.
- Hosiery. Daisy Whitehead Knitting Co. No. 151,112; Jan. 24.
- Hosiery. Daisy Whitehead Knitting Co. No. 158,928; Sept. 19.
- Hosiery. C. T. Davies. No. 161,109; Nov. 7.
- Hosiery. W. B. Davis & Son. No. 161,449; Nov. 14.
- Hosiery. Dreifus, Tichner & Eckstein. No. 161,119; Nov. 7.
- Hosiery. Dreyfus & Company. No. 161,453; Nov. 14.
- Hosiery. Emery & Beers Company. No. 158,659; Sept. 12.
- Hosiery. Freedman & Co. No. 157,952; Aug. 22.
- Hosiery. Glotex Hosiery Co. No. 157,961; Aug. 22.
- Hosiery. Gold Seal Knitting Mills. No. 156,266; June 20.
- Hosiery. Golden Belt Manufacturing Company. No. 161,144; Nov. 7.
- Hosiery. Belmstein-Lasar Company. No. 151,138; Jan. 24.
- Hosiery. Hart Bros. No. 154,564; Apr. 18.
- Hosiery. Hosiery Clearing House. No. 151,810; Feb. 14.
- Hosiery. A. C. Hulse, jr. No. 157,982; Aug. 22.
- Hosiery. S. Kaplan. No. 157,116; July 25.
- Hosiery. Keesey Hosiery Company. No. 157,119; July 25.
- Hosiery. Krueger-Tobin Co. No. 158,722; Sept. 12.
- Hosiery. Lehigh Silk Hosiery Mills, Inc. Nos. 159,197-8; Sept. 19.
- Hosiery. Lehigh Silk Hosiery Mills, Inc. No. 160,783; Oct. 24.
- Hosiery. Lehigh Silk Hosiery Mills. No. 161,529; Nov. 14.
- Hosiery. G. H. Leininger. No. 161,200; Nov. 7.
- Hosiery. B. A. Levine. No. 155,749; June 6.
- Hosiery. L. H. Lewis Company. No. 161,204; Nov. 7.
- Hosiery. M. T. Lewis. No. 154,607; Apr. 18.
- Hosiery. H. Lichten. No. 152,997; Mar. 7.
- Hosiery. Louisville Knitting Company. No. 155,753; June 6.
- Hosiery. May Hosiery Mills. No. 158,018; Aug. 22.
- Hosiery. Wm. T. McVaugh Company. No. 157,142; July 25.
- Hosiery. Mock & Judson. No. 158,032; Aug. 22.
- Hosiery. Norristown Hosiery Mills. No. 154,643; Apr. 18.
- Hosiery. Novelty Sport Hosiery Mills. No. 161,574; Nov. 14.
- Hosiery. Oliver Knitting Company. No. 157,167; July 25.
- Hosiery. Paramount Knitting Company. Nos. 151,651-2; Apr. 18.

Alphabetical list of trade-marks—Continued.

- Hosiery. Paramount Knitting Company. Nos. 155,168-73; May 16.
- Hosiery. Paramount Knitting Company. No. 158,513; Sept. 5.
- Hosiery. M. Pensak. No. 161,258; Nov. 7.
- Hosiery. Pittsburgh Dry Goods Company. No. 150,522; Jan. 3.
- Hosiery. Pittsburgh Dry Goods Company. No. 157,744; Aug. 15.
- Hosiery. Pittsburgh Dry Goods Company. No. 160,270; Oct. 17.
- Hosiery. Pittsburgh Dry Goods Company. No. 162,579; Dec. 19.
- Hosiery. Plotnick, Berngartt & Co. No. 162,170; Dec. 5.
- Hosiery. Propper Silk Hosiery Mills. Nos. 162,017-18; Nov. 28.
- Hosiery. Rambo & Regar, Incorporated. No. 154,665; Apr. 18.
- Hosiery. Rambo & Regar, Incorporated. No. 159,066; Sept. 19.
- Hosiery. Reins & Meiss. No. 154,667; Apr. 18.
- Hosiery. Reins and Meiss. Nos. 155,512-13; May 30.
- Hosiery. Rice-Stix Dry-Goods Company. No. 151,218; Jan. 24.
- Hosiery. Rice-Stix Dry Goods Company. No. 159,071; Sept. 19.
- Hosiery. Rockwell & Forester, Inc. No. 161,600; Nov. 14.
- Hosiery. M. Rounick. No. 161,610; Nov. 14.
- Hosiery. O. Schmied. No. 152,074; Feb. 14.
- Hosiery. Schneider, Battinus & Simon. No. 150,557; Jan. 3.
- Hosiery. Schuykill Valley Mills, Inc. No. 154,689; Apr. 18.
- Hosiery. W. Scott, Jr. No. 160,287; Oct. 17.
- Hosiery. J. H. Semel & Co. No. 151,229; Jan. 24.
- Hosiery. J. Smedley. No. 20,906; renewed Mar. 29, 1922.
- Hosiery. C. Smith. No. 159,104; Sept. 19.
- Hosiery. Spring Knit Hosiery Co. No. 161,303; Nov. 7.
- Hosiery. Sterling Hosiery Co. No. 157,210; July 25.
- Hosiery. Salomon Stern Ltd., of America. No. 159,215; Sept. 19.
- Hosiery. Louis Stix Co. No. 156,330; June 20.
- Hosiery. Tabor Brothers. No. 153,111; Aug. 22.
- Hosiery. Taylor and Watson, Inc. No. 158,832; Sept. 12.
- Hosiery. Wm. B. Thappleton's Sons. No. 156,070; June 13.
- Hosiery. True Shape Hosiery Co. No. 154,848; May 9.
- Hosiery. United Hosiery Company. No. 161,652; Nov. 14.
- Hosiery. United Mills Company. No. 157,230; July 25.
- Hosiery. Van Raalte Company. No. 158,133; Aug. 22.
- Hosiery. J. A. Voltter. No. 154,729; Apr. 18.
- Hosiery. Wayne Knitting Mills. No. 157,295; July 25.
- Hosiery. Wear-Best Knitting Co. No. 154,460; Apr. 11.
- Hosiery. Whitehead Hosiery Mills, Inc. No. 154,737; Apr. 18.
- Hosiery. Winkelman Brothers. No. 154,742; Apr. 18.
- Hosiery. H. H. Wood & Company. No. 158,150; Aug. 22.
- Hosiery. Wovenright Knitting Company. No. 156,152; June 13.
- Hosiery and knit underwear. West Branch Knitting Company. No. 161,665; Nov. 14.
- Hosiery and knit underwear for men. L. B. Schwab. No. 159,091; Sept. 19.
- Hosiery and knitted underwear. Delco Hosiery & Underwear Co. No. 151,734; Feb. 14.
- Hosiery and ladies' undergarments. Gray Shop, Inc. No. 154,554; Apr. 18.
- Hosiery and stockings. Bennington Hosiery Company. No. 157,802; Aug. 15.
- Hosiery and sweaters. W. S. Willis. No. 161,733; Nov. 14.
- Hosiery and underwear. Scheinzeit-Goldman Co. No. 162,986; Dec. 26.
- Hosiery and underwear of knitted and textile fabric. D. Brodinsky. No. 157,876; Aug. 22.
- Hosiery, Children's. John M. Given, Inc. No. 153,454; Mar. 21.
- Hosiery, Cotton and silk. E. Glasser. No. 151,296; Jan. 24.
- Hosiery, Infants'. W. T. Grant Company. No. 158,968; Sept. 19.
- Hosiery, Infants'. Krueger-Tobin Co. No. 160,226; Oct. 17.
- Hosiery, knitted and woven underwear and undersuits. A. Boehm. No. 161,070; Nov. 7.
- Hosiery, Ladies'. Marshall Field & Company. No. 162,443; Dec. 12.
- Hosiery, Ladies'. Ben Levene, Inc. No. 154,606; Apr. 18.
- Hosiery, Men's. J. H. Cohen. No. 159,176; Sept. 19.
- Hosiery, Men's cotton, lisle, fiber, and silk. Aivory Sox Co. No. 160,120; Oct. 17.
- Hosiery of silk or cotton or combinations of the same, Women's. Propper Silk Hosiery Mills, Inc. No. 157,562; Aug. 8.
- Hosiery, shirts, underwear, etc., Men's. Dessauer & Engel. No. 161,113; Nov. 7.
- Hosiery, Silk. Mutual Hosiery Mills, Inc. No. 158,750; Sept. 12.
- Hosiery, Silk. Paterson Knitting Mills, Inc. No. 158,767; Sept. 12.
- Hosiery, Silk lisle and cotton. A. H. Wittenberg. No. 151,288; Jan. 24.
- Hosiery, Silk, wool, etc. David Levine & Sons. No. 155,750; June 6.
- Hosiery, underdrawers, undershirts, union suits, sweaters. Kob & Kaplan. No. 150,871; Jan. 10.
- Hosiery, underwear, gloves. Glorianna Silk Mills, Inc. No. 154,551; Apr. 18.
- Hosiery, underwear, sweaters, overshirts. Cohen & Ettenson. No. 156,649; July 11.
- Hosiery, underwear, wristlets, neckties, sweaters, etc. H. J. Seltzer. No. 156,813; July 11.
- Hospital equipment. Sanitarium Equipment Company. No. 161,719; Nov. 14.
- Hospital supplies, Certain. Surgeons Specialty Company. No. 154,398; Apr. 11.
- Household appliances. National Home Appliance Corporation. No. 159,454; Sept. 26.
- Household furniture, Certain. Ovington Bros. Company. No. 157,732; Aug. 15.
- House organs, pamphlets, folders, and booklets. Hughes & Brettell. No. 150,830; Jan. 10.
- Houses, Certain dwelling. W. G. Truettner. No. 152,634; Feb. 28.
- Houses, Portable. United States Tent & Awning Company. No. 159,778; Oct. 3.
- Humidors. Wilmont Manufacturing Company. No. 153,071; Mar. 7.
- Hydrant hose and machine belting. N. J. Car Spring and Rubber Company. No. 17,710; renewed Mar. 25, 1920.
- Hydrocarbon engines, Timers for electrical ignition system for. Gladiator Manufacturing Company. No. 151,492; Feb. 27.
- Hydrogen ions, Instruments for the measurement of. Will Corporation. No. 151,007; Jan. 10.
- Hydrogen-peroxide solution. Merck & Co. No. 154,097; Apr. 4.
- Hydrometers. Taylor Instrument Companies. Nos. 162,140-1; Dec. 5.
- Hydrometers, thermometers, pocket compasses, barometers, etc. Testrite Instrument Co. No. 154,455; Apr. 11.
- Hypnotic analgetic. Société Chimique des Usines du Rhone. No. 153,859; Mar. 28.
- Ice. Dallas Ice Factory. No. 159,862; Oct. 10.
- Ice. A. L. Goodman. No. 152,794; Mar. 7.
- Ice, Artificial. Hygienic Artificial Ice Co. No. 159,911; Oct. 10.
- Ice bags. Lobl Manufacturing Company. No. 152,610; Feb. 28.
- Ice cream. Breyer Ice Cream Company. No. 152,569; Feb. 28.
- Ice cream. C. G. Carlson Ice Cream Company. No. 157,651; Aug. 15.
- Ice cream. L. J. Christopher Company. No. 158,337; Aug. 29.
- Ice cream. Elite Confectionery Co. No. 156,665; July 11.
- Ice cream. City Dairies Company. No. 160,413; Oct. 24.
- Ice cream. E. E. Harner. No. 151,793; Feb. 14.
- Ice cream. Hendler Creamery Company. No. 156,528; June 27.
- Ice cream. Hendler Creamery Company, The. Nos. 156,686-7; July 11.
- Ice cream. Hoefler Ice Cream Company. No. 154,793; May 19.
- Ice cream. V. Jones. No. 162,523; Dec. 19.
- Ice cream. Maryland Creamery Co. No. 160,792; Oct. 24.
- Ice cream. Nestlé's Food Company. No. 157,724; Aug. 15.
- Ice cream and ice cream covered with chocolate. Russell Stover Company. No. 162,585; Dec. 19.
- Ice cream and ices. Baker Ice Cream Company. No. 154,821; May 9.
- Ice-cream cabinets. C. Nelson Manufacturing Company. No. 151,039; Jan. 10.
- Ice-cream cabinets. G. G. Peterson. No. 160,622; Oct. 24.
- Ice-cream cabinets and tubs, refrigerators. Virginia Woodworking Co. No. 162,653; Dec. 19.
- Ice-cream cones. National Biscuit Company. No. 151,885; Feb. 14.
- Ice-cream cones, Pastry. Stokes & Wells. No. 162,603; Dec. 19.
- Ice-cream freezers. Miller Pasteurizing Machine Company. No. 155,342; May 23.
- Ice-cream freezers. Steinfeld Bros. No. 153,873; Mar. 28.
- Ice-cream powder. Crandall Pettie Co. No. 158,644; Sept. 12.
- Ice, Machines for powdering. Crystal Creamed Ice Machine Co. No. 161,762; Nov. 21.
- Ice-making and refrigerating machinery. De La Vergne Machine Company. No. 151,113; Jan. 24.
- Ice-making and refrigerating machinery. Frick Company. No. 157,070; July 25.
- Ice-making and refrigerating machines. Henry Vogt Machine Co. No. 153,746; Mar. 28.
- Icings, coatings, frostings. Brown Company. No. 152,361; Feb. 28.
- Ignition accessories. J. Sharp. No. 158,537; Sept. 5.
- Ignition gauges. Air Reduction Company. No. 154,214; Apr. 11.
- Ignition timers, Engine. Enterprise Brass and Plating Company. No. 153,162; Mar. 14.
- Illustrated boxes for children for educational and amusement purposes. Happiwork. No. 161,949; Nov. 28.
- Incense. Will & Baumer Candle Co. No. 161,341; Nov. 7.
- Incense, Aromatic. Louis Lucas Company. No. 157,536; Aug. 8.

- Incense, Aromatic. Louis Lucas Company. No. 161,215; Nov. 7.
- Incense burners. Lockwood Studios. No. 159,933; Oct. 10.
- Index and bristol boards. Whiting Paper Company. No. 152,643; Feb. 28.
- Indexes. R. C. Russell. Nos. 162,172-3; Dec. 5.
- Indexes and filing devices, Certain. American Kardex Company. No. 151,068; Jan. 24.
- Indicators, inclinometers, etc., Certain. S. Smith & Sons. (M. A.) No. 153,857; Mar. 28.
- Indigestion corrective. M. S. Small. No. 154,389; Apr. 11.
- Indigestion powder and shampoo preparation. Medicinal Products Corporation. No. 152,877; Mar. 7.
- Infants' wear. Conway's. No. 154,518; Apr. 18.
- Infants' wear. Dorros Bros. Incorporated. No. 154,530; Apr. 18.
- Inhalers. Arrow Company. No. 152,667; Mar. 7.
- Inhalers. Lobl Manufacturing Company. No. 152,863; Mar. 7.
- Inhalers for certain ailments. Combination. Miller-Fatland Novelty Co. No. 160,924; Oct. 31.
- Inhaling compound for the protection of firemen and others. W. M. Mitchell. No. 155,766; June 6.
- Ink. A. B. Dick Company. No. 155,220; May 28.
- Ink and ink powder, Writing. C. A. Black. No. 161,065; Nov. 7.
- Ink, dye, or stain for boots and shoes. United Shoe Machinery Corporation. No. 161,324; Nov. 7.
- Ink eradicator. Jordan Marsh Company. No. 153,771; Mar. 28.
- Ink, Gritless news. Ault & Wiborg Company of N. Y. No. 153,103; Mar. 14.
- Ink, ink pigments, and the vehicles used with pigments for compounding inks, Printing. Alchemic Gold Company Incorporated. No. 161,393; Nov. 14.
- Ink, Nonerasable. J. Gams. No. 156,256; June 20.
- Ink, Printers' and lithographers'. Ault Wiborg Company. No. 21,933; renewed Nov. 8, 1922.
- Ink. Stencil and marking. Taylor Bros. Co. No. 155,292; May 23.
- Ink, Stenciling and marking. Binney & Smith Company. No. 162,196; Dec. 12.
- Ink varnish, Printers'. E. B. Beccard. No. 151,427; Feb. 7.
- Ink, Writing. Crocker Pen Company. No. 158,203; Aug. 29.
- Ink, Writing. Mission Bead Company. No. 161,239; Nov. 7.
- Ink, Writing. Super Saftee Ink Corporation. No. 161,314; Nov. 7.
- Ink, Writing. R. E. Wolfrath. No. 155,304; May 23.
- Inks and inking materials, Certain. Sherwin-Williams Company. No. 155,286; May 23.
- Inks, Chemical ink powder used in making writing. W. T. Snearely. No. 151,407; Jan. 31.
- Inks, Printing. Jaenecke-Ault Company. No. 151,392; Jan. 31.
- Inks, Printing. Queen City Printing Ink Company. No. 162,342; Dec. 12.
- Inks, Printing. Sigmund Ullman Company. No. 151,984; Feb. 14.
- Inks, Printing. Sigmund Ullman Company. No. 152,080; Feb. 14.
- Inks, Printing. Sigmund Ullman Company. No. 152,631; Feb. 28.
- Inks, Printing. Sigmund Ullman Co. No. 158,300; Aug. 29.
- Inks, Writing. Jiffy Pen Company. No. 151,820; Feb. 14.
- Inks, Writing. A. P. Keller. No. 151,829; Feb. 14.
- Inks, Writing. Puritan Drug Mfg. Co. No. 161,595; Nov. 14.
- Inks, Writing. H. Stolzer. No. 156,761; July 11.
- Inks, Writing and printing. J. C. Swearingen Ink Co. No. 158,307; Aug. 20.
- Insect exterminator. L. P. McGuire. No. 150,459; Jan. 3.
- Insect exterminator, disinfectant, and deodorizer. Yellow-Fluid Chemical Co. No. 152,303; Feb. 21.
- Insect exterminators. Royal Exterminating Products, Inc. No. 161,279; Nov. 7.
- Insect fluid. Emerson Pharmaceutical Laboratories. No. 156,863; July 18.
- Insect killer, Liquid. Moneb Chemical Co. No. 161,240; Nov. 7.
- Insect powder. Lyon Botanical Co. No. 150,257; Jan. 3.
- Insect powders. El-Kay Co. No. 150,346; Jan. 3.
- Insecticide. Bass-Parker Co. No. 154,225; Apr. 11.
- Insecticide. Enoz Chemical Company. Nos. 150,349-50; Jan. 3.
- Insecticide. Enoz Chemical Company. No. 157,941; Aug. 22.
- Insecticide. Glidden Company. No. 159,882; Oct. 10.
- Insecticide. Holmes Chemical Company Inc. No. 151,824; Jan. 3.
- Insecticide. Insecto Manufacturing Co. No. 152,199; Feb. 21.
- Insecticide. W. H. Johnson. No. 151,822; Feb. 14.
- Insecticide. Jonson Eureka Combination Spray Co. Nos. 151,824-5; Feb. 14.
- Insecticide. W. A. Schull. No. 161,298; Nov. 7.
- Insecticide. Vaydice Chemical Corporation. Nos. 150,633-4; Jan. 3.
- Insecticide and vermicide. E. Grossman. No. 154,040; Apr. 4.
- Insecticide for use on live stock. M. J. Anderson. No. 154,427; Apr. 11.
- Insecticide, Powder. W. C. Davey. No. 157,322; Aug. 1.
- Insecticides. Bear Chemical Company. No. 156,175; June 20.
- Insecticides. Central City Chemical Co. No. 155,637; June 6.
- Insecticides. M. Diederich. No. 158,935; Sept. 19.
- Insecticides. Garden Chemical Co. No. 158,442; Sept. 5.
- Insecticides. Garlough and Nave. No. 158,577; Sept. 5.
- Insecticides. D. N. Gilpin. No. 159,881; Oct. 10.
- Insecticides. Edward C. Hofstra Company. No. 151,506; Feb. 7.
- Insecticides. Hofstra Manufacturing Company. No. 159,902; Oct. 10.
- Insecticides. Hooker Electrochemical Company. Nos. 160,882-3; Oct. 31.
- Insecticides. Meyers & Kaner. No. 155,763; June 6.
- Insecticides. F. P. Symonds. No. 159,128; Sept. 19.
- Insecticides. Trager Manufacturing Company. No. 153,543; May 30.
- Insecticides and destroyer for all insects. M. Regelson. No. 153,832; Mar. 28.
- Insecticides and fungicides. Dow Chemical Company. No. 153,701; Mar. 28.
- Insecticides and fungicides. Riches, Piver & Co. No. 152,622; Feb. 28.
- Insecticides, bactericides, disinfectants, and fungicides for plants. Bobwhite Chemical Corporation. No. 153,371; Mar. 14.
- Insecticides, bactericides, disinfectants, and fungicides for plants. Bobwhite Chemical Corporation. No. 156,190; June 20.
- Insecticides, bactericides, etc. Bobwhite Chemical Corporation. No. 152,567; Feb. 28.
- Insecticides for flies, mosquitoes, etc. Groover-Stewart Drug Company. No. 153,739; Mar. 28.
- Insecticides for the destruction of flies, fleas, etc. G. Philbert. No. 151,906; Feb. 14.
- Insecticides, fungicides, disinfectants, cattle spray, etc. Acme White Lead & Color Works. No. 161,036; Nov. 7.
- Insecticides, rodent poisons, insect preventives. Enoz Chemical Company. No. 153,712; Mar. 28.
- Insolting, Fabricated. E. H. Godbold. No. 154,034; Apr. 4.
- Instruments of precision, Certain. Union Tool Company. No. 153,886; Mar. 28.
- Insulated conducting wire. Simplex Electrical Company. No. 18,552; renewed Oct. 28; 1920.
- Insulated conducting wires. Phillips Insulated Wire Co. No. 20,339; renewed Nov. 10, 1921.
- Insulated wire. Detroit Insulated Wire Company. No. 160,852; Oct. 31.
- Insulated wire and electric cables and insulating material. Indiana Rubber and Insulated Wire Company. No. 20,916; renewed Mar. 29, 1922.
- Insulating composition materials. American Insulator Company. No. 159,796; Oct. 10.
- Insulating compound, Electric. Formica Insulation Company. No. 155,689; June 6.
- Insulating packings, Heat-. Asbestos Ltd. No. 153,101; Mar. 14.
- Insulating powder used in building construction, etc. R. Burhans, Jr. No. 160,144; Oct. 17.
- Insulating tape, Electric. Diamond Holfast Rubber Co. No. 156,657; July 11.
- Insulation and certain insulation devices. Fabricated material for electrical. Electrore Manufacturing Company. No. 155,678; June 6.
- Insulation, Compounds resembling porcelain for electrical. Dimitri et Delaunay. No. 162,232; Dec. 12.
- Insulators and insulating appliances and fittings, Certain molded electrical. Thomas De La Rue and Company. No. 151,461; Feb. 7.
- Insulators, Electric. Porcelain Insulator Corporation. No. 153,282; Mar. 14.
- Insulators, Electrical. E. Nunsell, L. W. Kingsley, and F. Brooks. No. 22,623; renewed Mar. 7, 1923.
- Interlining garments. Piece goods used for. J. A. Rainford. No. 155,057; May 16.
- Intestinal disinfectant. H. T. A. Becker. No. 151,428; Feb. 7.
- Intestinal lubricant. Langley & Michaels Company. No. 150,447; Jan. 3.
- Intravenous mercurial preparations. Seydel Manufacturing Company. No. 160,965; Oct. 31.
- Invalid rings, sprays, surgeons' operating rubber gloves, ice caps. National Drug Stores Corporation. No. 150,910; Jan. 10.
- Iodine therapy for infection. Merrimac Drug Company. No. 155,484; May 30.
- Iron and iron and steel castings and forgings. Gemo-Sterby Bruks Aktiebolag. No. 153,928; Mar. 28.
- Iron and steel. Forsbacka Jernverks Aktiebolag. No. 161,941; Nov. 28.
- Iron and steel bar metal. Logan Iron & Steel Company. No. 161,534; Nov. 14.
- Iron and steel bars, bands, and wire. Sandvikens Jernverks Aktiebolaget. No. 153,845; Mar. 28.
- Iron and steel blanks and shapes, Rolled. Witherow Steel Company. Nos. 160,746-7; Oct. 24.

Alphabetical list of trade-marks—Continued.

- Iron and steel manufacture, Articles of. Sandvikens Jernverks Aktiebolag. Nos. 158,293-4; Aug. 29.
- Iron and steel products, Certain. E. L. Soule. No. 152,510; Feb. 28.
- Iron and steel sheets, sheet roofing, plates, bars, etc. Youngstown Sheet and Tube Company. No. 156,565; June 27.
- Iron and steel tubes, certain oil-well tubular goods, and fencing. Youngstown Sheet and Tube Company. No. 155,915; June 6.
- Iron and steel used for lining plates for ball and pebble mills. Hardinge Company. No. 159,368; Sept. 26.
- Ironers and ironing machines. Gillespie Eden Corporation. No. 162,253; Dec. 12.
- Ironing-board covers. M. Moritz. No. 161,896; Nov. 21.
- Ironing boards. Wm. Cameron & Co. No. 155,211; May 23.
- Ironing boards. Dearborn Company. No. 152,742; Mar. 7.
- Ironing machine. Altorfer Bros. Company. No. 152,655; Mar. 7.
- Iron oxide. Iron Oxide Products, Inc. No. 157,346; Aug. 1.
- Iron, steel, and manufactures thereof. Carpenter Steel Company. No. 19,049; renewed Feb. 17, 1921.
- Iron, Sulphate of. American Steel & Wire Company of New Jersey. No. 156,162; June 20.
- Iron welding sticks or rods, Cast. Davis-Bournonville Company. No. 150,786; Jan. 10.
- Irons, Electric. Strause Gas Iron Co. No. 160,028; Oct. 10.
- Irons, lightning-arresters, Electric heating and soldering. L. S. Brach Mfg. Co. No. 152,691; Mar. 7.
- Jack for automobiles, Mud. E. I. Bowe. No. 150,745; Jan. 10.
- Jacks. Auto Specialties Manufacturing Co. No. 161,401; Nov. 14.
- Jacks and lifting-jack bases, Lifting. O. P. Schriver Company. No. 157,200; July 25.
- Jacks and parts thereof, Lifting. Yellow Jack-It Mfg. Co. No. 155,305; May 23.
- Jacks and parts thereof, Lifting. Duffy Manufacturing Company. No. 152,581; Feb. 28.
- Jacks, Hydraulic. C. W. Reynolds. No. 158,071; Aug. 22.
- Jacks, Lifting. American Tube and Stamping Company. No. 162,669; Dec. 26.
- Jam, jelly, fruit preserves, conserves. Welch Grape Juice Company. No. 156,779; July 11.
- Jams and jellies. Paul De Laney Co. No. 154,654; Apr. 18.
- Jams, jellies, and orange marmalade. Oest Fruit Co. No. 159,632; Sept. 26.
- Jar rings, Fruit. Schloss Manufacturing Co. Nos. 160,083-12; Oct. 10.
- Jellies, fruit preserves, apple butter, and and flavoring extracts. Blanke-Baer Extract & Preserving Company. No. 159,282; Sept. 26.
- Jellies, fruit preserves, conserves, and canned fruit. I. Graves. Nos. 156,677-8; July 11.
- Jelly, mushrooms, peppers, or pimientos, Bar-le-duc. Bordeaux & New York Trading Co. No. 156,503; June 27.
- Jelly powder. Arcadia Food Company. No. 158,829; Aug. 29.
- Jewelry. R. Bengert. No. 158,178; Aug. 29.
- Jewelry. Ovington Bros. Company. No. 156,826; July 11.
- Jewelry. Shiman Bros. & Co. No. 162,363; Dec. 12.
- Jewelry. United Society of Christian Endeavor. No. 21,469; renewed July 19, 1922.
- Jewelry. William A. Waters Company. No. 156,776; July 11.
- Jewelry and precious-metal ware. Alphonse W. Weiner, Inc. No. 158,318; Aug. 29.
- Jewelry and precious-metal ware. W. G. Clark & Co. No. 160,089; Oct. 10.
- Jewelry and precious metal ware, Certain. H. G. Essayan. No. 155,415; May 30.
- Jewelry and precious metal ware, Certain articles of. Simons Bros. Company. No. 155,526; May 30.
- Jewelry, Certain. Abel Bros. & Co. No. 156,606; July 11.
- Jewelry, Certain. Joseph E. Miller, Inc. No. 158,264; Aug. 29.
- Jewelry, Certain. J. F. Sturdy's Sons Co. No. 151,409; Jan. 31.
- Jewelry, Certain articles of. Binder Brothers, Inc. No. 155,385; May 30.
- Jewelry, Certain articles of. Continental Jewelry Company. No. 155,402; May 30.
- Jewelry, Certain articles of. Craft and Newton Incorporated. No. 152,730; Mar. 7.
- Jewelry, Certain articles of. Goldsmith Brothers Smelting and Refining Company. No. 155,429; May 30.
- Jewelry, Certain articles of. Miles F. Bixler Company. No. 155,386; May 30.
- Jewelry, Certain articles of. J. R. Wood & Sons. No. 155,566; May 30.
- Jewelry, Certain named. Katz & Ogush, Inc. No. 156,695; July 11.
- Jewelry, not including watches. Heidell & Trow Company. No. 162,262; Dec. 12.
- Joint fillers for street pavements, alleys, &c., Expansion-Standard Asphalt & Refining Co. No. 152,512; Feb. 28.
- Joints, Universal. Acme Universal Joint Mfg. Co. No. 152,557; Feb. 28.
- Journal bearings. Pacific Metal Bearing Company. No. 150,922; Jan. 10.
- Journal bearings for rotating machinery. Oliver-Sherwood Co. No. 150,936; Jan. 10.
- Journal, Farm. J. B. Stern. No. 153,541; Mar. 21.
- Journal, Monthly. Spokesman Publishing Company. No. 159,107; Sept. 19.
- Journal, Monthly medical. Radium Company of Colorado. No. 162,346; Dec. 12.
- Journal, Monthly trade. Service Publishing Co. No. 157,580; Aug. 8.
- Journal of this organization, Official. National Marine Engineers' Beneficial Association. No. 158,753; Sept. 12.
- Journal published quarterly, Trade. R. S. Kennedy. No. 159,003; Sept. 19.
- Journal, Section of a trade. Merchants Trade Journal, Inc. No. 153,494; Mar. 21.
- Journal, Society. Town Topics Publishing Company. No. 21,694; renewed Aug. 30, 1922.
- Jugs. Cleveland Fruit Juice Company. No. 155,397; May 30.
- Jute bagging. Ludlow Manufacturing Associates. Nos. 160,785-8; Oct. 24.
- Jute bagging. Ludlow Manufacturing Associates. Nos. 161,216-17; Nov. 7.
- Kaufman-Straus Co., Louisville, Ky. Tooth, nail, hand, and bath brushes. No. 152,440; Feb. 28.
- Kerosene. Associated Oil Company. No. 162,424; Dec. 12.
- Kerosene. Hamberger-Polhemus Company. No. 162,771; Dec. 26.
- Kerosene and gasoline. Great Southern Refining Company. No. 162,767; Dec. 26.
- Kerosene, gasoline, etc. Noco Petroleum Company. No. 154,113; Apr. 4.
- Kerosene, gasoline, fuel-oil, lubricating-oil, and paraffine-wax. Ohio Valley Refining Company. No. 152,248; Feb. 21.
- Kettles, Steam cooking. Curtis Manufacturing Company. No. 156,856; July 18.
- Key cases. Buxton Incorporated. No. 153,132; Mar. 14.
- Key cases. Security Key Case Mfg. Co. No. 159,512; Sept. 26.
- Key-ring hooks. W. N. Morrison. No. 152,463; Feb. 28.
- Keys. B. Ulrich. No. 162,146; Dec. 5.
- Keys, locks, padlocks, door bolts. Segal Lock & Hardware Co. No. 152,629; Feb. 28.
- Kimonos, house dresses, aprons, bath robes. Caro & Company. No. 157,022; July 25.
- Kindergarten cut-outs for children. Happiwork. No. 151,160; Jan. 24.
- Kindling compounds. Blaz-Away. No. 151,084; Jan. 24.
- Kitchen utensils, Aluminum. Kewaskum Aluminum Company. No. 161,521; Nov. 14.
- Kitchen utensils and flatware, Aluminum. Rainbow Import & Export Corporation. No. 159,487; Sept. 26.
- Kitchen utensils of aluminum. National Metal Ware Co. No. 160,599; Oct. 24.
- Kites. G. D. Wanner. No. 153,899; Mar. 28.
- Knapsacks. Cal Hirsch & Sons Mercantile Co. No. 151,330; Jan. 31.
- Kneepads. E. N. Kauffman. No. 155,732; June 6.
- Knickers. Kenilworth Manufacturing Co. No. 161,186; Nov. 7.
- Knickers, bloomers, middy blouses, etc., for females. Kenilworth Manufacturing Co. No. 161,518; Nov. 14.
- Knit fabric made of artificial silk, Tubular. Clayburgh Brothers. No. 158,919; Sept. 19.
- Knit goods. R. & W. Mills Co. No. 154,204; Apr. 4.
- Knit goods in the piece. Wiley-Bickford-Sweet Co. No. 161,671; Nov. 14.
- Knit jackets. Century Knitting Mills. No. 157,478; Aug. 8.
- Knit underwear. Superior Knitting Company. No. 157,214; July 25.
- Knit underwear. United Knitting Works Company Limited. No. 22,105; renewed Dec. 6, 1922.
- Knit underwear and sweaters. J. & M. Wolf, Inc. No. 161,345; Nov. 7.
- Knit underwear and sweaters, union suits, etc. Wyman. Partridge & Co. No. 151,010; Jan. 10.
- Knit underwear, Children's. Perry Knitting Company. No. 158,057; Aug. 22.
- Knit underwear for women and children. Blue Star Knitting Co. No. 157,005; July 25.
- Knit underwear for women and children. Wright's Underwear Company. No. 158,872; Sept. 12.
- Knit underwear, Women's. Clift and Goodrich Inc. No. 160,154; Oct. 17.
- Knitted and woven woolen and worsted cloths, Jersey cloth, etc. Continental Mills, Inc. No. 155,216; May 23.
- Knitted caps. Reliable Knitting Works. No. 157,569; Aug. 8.
- Knitted, cloth, and woven underwear. Davenport Hosiery Mills. No. 161,448; Nov. 14.
- Knitted coats and jackets. Yund, Kennedy & Yund. No. 156,089; June 13.
- Knitted coats and sweaters. Rugby Knitting Mills. No. 162,114; Dec. 5.
- Knitted coats for outer wear, Men's. Alcone Knitting Mills. No. 161,395; Nov. 14.

- Knitted coats, jackets, vests, for men, women, and children. H. M. Sawyer & Son. No. 160,285; Oct. 17.
- Knitted fabrics and textile robes and blankets. Peters and Herron Co. No. 150,945; Jan. 10.
- Knitted fabrics in the piece. Rich-Sampler Knitting Mills Company. No. 154,371; Apr. 11.
- Knitted fabrics in the piece. Roxford Knitting Company. No. 154,376; Apr. 11.
- Knitted fabrics in the piece. Wiley-Bickford-Sweet Co. No. 158,146; Aug. 22.
- Knitted fabrics of silk and wool in the piece and knitted fabrics of wool in the piece. Warwick Knitting Mills, Inc. No. 162,936; Dec. 26.
- Knitted garments. E. Schwartz. No. 154,690; Apr. 18.
- Knitted garments, underwear, and hosiery. Fuld and Hatch Knitting Company. No. 160,189; Oct. 17.
- Knitted goods of wool and wool mixture. Gold Mark Knitting Co. No. 157,675; Aug. 15.
- Knitted hosiery and underwear. Walton N. Moore Dry Goods Co. No. 159,044; Sept. 19.
- Knitted hosiery, underwear, and petticoats for women. E. J. Isaacs. No. 151,818; Feb. 14.
- Knitted or textile underwear, sweaters, neckties, etc., Men's, women's, and children's. Myers Dry Goods Co. No. 157,158; July 25.
- Knitted outer wear, sweaters, coats, capes, hockey caps, etc. Elbro Knitting Mills. No. 157,934; Aug. 22.
- Knitted silk fabrics. Banner Silk Knitting Mills, Inc. Nos. 161,746-7; Nov. 21.
- Knitted sport coats, sweaters, and underwear. Valatie Mills Corporation. No. 162,026; Nov. 28.
- Knitted sweaters. Arr Tee Knitting Mills. No. 157,855; Aug. 22.
- Knitted sweaters. Cladwell Distributing Company. No. 160,151; Oct. 17.
- Knitted sweaters and scarfs. Allandale Knitting Mills. No. 154,469; Apr. 18.
- Knitted underclothing for men. Pacific Exploitation Co. No. 160,798; Oct. 24.
- Knitted underwear. Oak Knitting Company. No. 156,379; June 20.
- Knitted underwear and hosiery. Burnstine and Nachman. No. 155,937; June 13.
- Knitted underwear and hosiery. Lauerman Brothers Company. No. 161,527; Nov. 14.
- Knitted underwear, bathing suits, hosiery, etc., Women's and children's. A. M. Webb. No. 157,240; July 25.
- Knitted underwear for women. Sylva Knitting Company. No. 157,215; July 25.
- Knitted underwear, Ladies'. Graceline Knitting Company. No. 160,199; Oct. 17.
- Knitted underwear, Men's and boys'. Rogers Peet Company. No. 156,915; July 18.
- Knitted underwear, shirts, drawers, union suits, and bloomers. F. Conde. No. 159,177; Sept. 19.
- Knitted underwear, Women's. Merit Underwear Company. No. 156,538; June 27.
- Knitted woolen and worsted cloth or fabric in the piece. Continental Mills, Inc. No. 156,219; June 20.
- Knitted woolen and worsted cloths, eiderdowns, etc. Continental Mills, Inc. No. 157,483; Aug. 8.
- Knitted woolen fabrics in the piece. Rich-Sampler Knitting Mills Company. No. 153,836; Mar. 28.
- Knitting and crocheting artificial silk, threads, and yarns. I. Daniel & Sons. No. 162,712; Dec. 26.
- Knitting machines. Warp. National Knitting Machine Co. No. 156,718; July 11.
- Knitting pins. Olney, Amsden & Sons Ltd. No. 162,329; Dec. 12.
- Knives and forks, knives, razors, scissors, etc., Table. A. Wingen, jr. No. 159,788; Oct. 3.
- Knives and forks made of base metal, Kitchen and table. Sta-Brite Cutlery Company. Nos. 161,906-7; Nov. 21.
- Knives, forks, and spoons, etc., Table. Ovington Bros. Company. No. 157,168; July 25.
- Knives, forks, parers, and cleavers. Jennings Manufacturing Company. No. 162,088; Dec. 5.
- Knives, Pocket. E. N. Kennedy. No. 153,218; Mar. 14.
- Knives, scissors, shears, razors. Adolph Blauch, Inc. No. 150,737; Jan. 10.
- Kola, coffee, and chicory, Extract of. John Mackay & Co. No. 159,426; Sept. 26.
- Kraft wrapping papers. Central Ohio Paper Company. No. 150,766; Jan. 10.
- Labeling and gumming machines. Pneumatic Scale Corporation, Limited. No. 162,861; Dec. 26.
- Labels, Blank gummed. A. W. Engel. No. 157,940; Aug. 22.
- Labels, paper, and tape. Gummed. Mid-States Gummed Paper Co. No. 162,551; Dec. 19.
- Laboratory and dental apparatus. Certain. L. D. Caulk Company. No. 156,202; June 20.
- Laboratory apparatus. L. D. Rogers. No. 155,067; May 16.
- Lace and embroidery articles. Perlmann, Schal & Stern. Nos. 156,891-2; June 20.
- Lace curtains and nets or curtain lace in piece goods. Quaker Lace Company. No. 161,596; Nov. 14.
- Lace in the piece. I. Lindenbaum & Co. No. 154,611; Apr. 18.
- Lace in the piece. I. Lindenbaum & Co. Nos. 156,327-8; June 20.
- Lace in the piece. Richmond Lace Works. No. 162,876; Dec. 26.
- Lace in the piece, Embroidered. F. J. Cavanaugh. No. 161,433; Nov. 14.
- Lace piece goods, Cotton-. Societe Francaise De Cotons a Coudre (Societe Anonyme). Nos. 152,508-9; Feb. 28.
- Lace tippers. A. Youdelman. No. 155,914; June 6.
- Laces and braids, Shoe and corset. American Braiding Company. No. 156,499; June 27.
- Laces and nets in the piece. G. Sidenberg & Co. No. 159,760; Oct. 3.
- Laces and washable lingerie braid, Shoe and corset. McGraw Manufacturing Company. No. 162,538; Dec. 19.
- Laces in the piece, Fancy. Lace Net Importing Co. No. 157,702; Aug. 15.
- Laces, Shoe. Crescent Braid Co. No. 155,658; June 6.
- Laces, Shoe. Diamond Braiding Mills. No. 157,491; Aug. 8.
- Laces, Shoe. Diamond Braiding Mills. No. 158,648; Sept. 12.
- Laces, Shoe. Hutmacher Braiding Company. No. 162,779; Dec. 26.
- Lacings, galloons, and braids, Shoe and corset. International Braid Company. No. 157,689; Aug. 15.
- Lacings, Garment. Matson Lace & Braid Company. No. 153,493; Mar. 21.
- Lacquer, Millinery. C. T. Smith. No. 159,527; Sept. 26.
- Lacti bacilli for medicinal use in gastro-intestinal disorders, etc., Culture of. B. B. Culture Laboratory, Inc. No. 159,861; Oct. 10.
- Lactalbuminous solution. P. Beiersdorf & Co. Inc. No. 151,673; Feb. 14.
- Ladders. Rich Pump and Ladder Company. No. 156,961; July 18.
- Lager beer. The F. & M. Schaefer Brewing Co. No. 21,004; renewed Apr. 19, 1922.
- Lamp chimneys and reservoirs. Standard Oil Company of New York. No. 162,897; Dec. 26.
- Lamp chimneys, shades, and globes, lantern globes, etc. Gill Brothers Company. No. 159,880; Oct. 10.
- Lamp, Electric. Light-Sight Products Corporation. No. 158,479; Sept. 5.
- Lamp sockets, lamp-cover sockets and plugs, Electric. Harter Mfg. Company. No. 158,452; Sept. 5.
- Lamp sockets, switches, and parts thereof, Electric. Bryant Electric Company. No. 151,437; Feb. 7.
- Lamp systems for vehicles. Tell-Stop Appliance Co. No. 161,317; Nov. 7.
- Lamps and burners therefor, Miners'. L. E. Polhemus. No. 160,271; Oct. 17.
- Lamps and lamp fixtures, Electric. King Manufacturing Company. No. 152,847; Mar. 7.
- Lamps, (incandescent,) and lamp testers. Associated Lamp Company. No. 153,102; Mar. 14.
- Lamps and starting and ignition devices for gas engines, etc., Electric. Cuno Engineering Corporation. No. 151,457; Feb. 7.
- Lamps and their parts, Electric incandescent. Osram G. m. b. H. Kommanditgesellschaft. No. 151,524; Feb. 7.
- Lamps and their parts, Electric incandescent. Osram G. m. b. H. Kommanditgesellschaft. No. 156,724; July 11.
- Lamps, Automobile electric. C. H. Montague. No. 152,888; Mar. 7.
- Lamps, battery boxes, etc., Electric. Superior Lamp Mfg. Co. No. 150,981; Jan. 10.
- Lamps, Brackets for electric. R. D. H. Anderson. No. 155,599; June 6.
- Lamps, candlesticks, and candelabra. Nonelectric oil. Ovington Bros. Company. No. 160,611; Oct. 24.
- Lamps, Electric. Marshall Field & Company. No. 158,352; Aug. 29.
- Lamps, Electric. L. Kulp. No. 161,792; Nov. 21.
- Lamps, Electric-arc. M. J. Wohl & Co. No. 153,355; Mar. 14.
- Lamps, Electric automobile. American Auto Lamp Co. No. 162,182; Dec. 12.
- Lamps, Electric gas-filled. Osram G. m. b. H. Kommanditgesellschaft. No. 156,723; July 11.
- Lamps, Electric street signaling. F. Milliken. No. 160,925; Oct. 31.
- Lamps, Electric vehicle. Indiana Lamp Company. No. 150,679; Jan. 3.
- Lamps, Electric vehicle. Indiana Lamp Company. No. 156,689; July 11.
- Lamps for automobiles, Electric parking. Metal Spinning & Plating Co. No. 151,546; Feb. 7.
- Lamps for motor vehicles, Electric signal. Standard Auto Parts Co. of America. No. 157,288; July 25.
- Lamps for vehicles and parts thereof, Electric. Willys Corporation. No. 161,033; Oct. 31.
- Lamps, Gas. H. C. Abrams. No. 151,063; Jan. 24.
- Lamps, Gasoline. Nagel-Chase Mfg. Co. No. 152,319; Feb. 21.
- Lamps, Incandescent electric. Bettalyte Incandescent Lamp Co. No. 158,387; Sept. 5.
- Lamps, Incandescent electric. Westinghouse Lamp Company. No. 156,579; June 27.
- Lamps, lanterns, lighting plants, and systems, burners, and gas generators. Coleman Lamp Company. No. 151,380; Jan. 31.

Alphabetical list of trade-marks—Continued.

- Lamps, lanterns, ventilators, etc. Scintilla. No. 151,227; Jan. 24.
- Lamps, Physicians' and surgeons'. W. J. Cameron. No. 162,696; Dec. 26.
- Lamps, Portable electric. Vimco Mfg. Company. No. 151,623; Feb. 7.
- Lamps, Portable electric. Waterbury Metal Wares Co. No. 158,563; Sept. 5.
- Lamps, Safety Car Heating and Lighting Company. No. 20,678; renewed Feb. 2, 1922.
- Lamps, Therapeutic. S. Robert Schwartz & Bro. No. 158,805; Sept. 12.
- Lamps, Transparent shades, shields, and screens for. A. Golden. No. 160,196; Oct. 17.
- Lancets, beams, surgical scissors, and surgical cutlery generally. Mappin & Webb Limited. No. 162,544; Dec. 19.
- Lanterns, Glass globes for. R. E. Dietz Company. No. 159,864; Oct. 10.
- Lard. Dunlevy & Bro. No. 20,631; renewed Jan. 26, 1922.
- Lard. Jersey City Packing Company. No. 20,844; renewed Mar. 15, 1922.
- Lard. John Morrell & Company. No. 151,880; Feb. 14.
- Lard. John Morrell & Company. No. 154,798; May 9.
- Lard. Rohe & Brother. No. 20,889; renewed Mar. 22, 1922.
- Lard and dry salt and sweet-pickled pork. Fowler Packing Company. No. 151,765; Feb. 14.
- Lard and its substitutes. W. J. Wilcox Lard Refining Company. Nos. 21,438-41; renewed July 12, 1922.
- Lard and its substitutes. W. J. Wilcox Lard and Refinery Company. No. 21,603; renewed Aug. 9, 1922.
- Lard and its substitutes. W. J. Wilcox Lard and Refining Company. No. 21,675; renewed Aug. 23, 1922.
- Lard and its substitutes. W. J. Wilcox Lard and Refining Company. No. 21,980; renewed Nov. 15, 1922.
- Lard, hams, and bacon. Power Packing Plant. No. 160,111; Oct. 10.
- Lard substitute. W. S. Forbes & Company. No. 154,547; Apr. 18.
- Lard substitute. F. E. Patrick-Young Co. No. 154,803; May 9.
- Lard substitute. O. Wynne. No. 152,011; Feb. 14.
- Lard substitute. O. Wynne. No. 154,746; Apr. 18.
- Lards. Wm. Schluderberg-T. J. Kurlde Co. No. 154,807; May 9.
- Last thimbles. Boston Pressed Metal Company. No. 152,360; Feb. 28.
- Lath, Expanded metal. Northwestern Expanded Metal Company. No. 154,114; Apr. 4.
- Laths. Midwest Steel & Supply Company. No. 155,013; June 13.
- Laths, Expanded-metal. Northwestern Expanded Metal Company. No. 156,542; June 27.
- Laths, Metal. Midwest Steel & Supply Company. No. 156,012; June 13.
- Lathes. J. J. McCabe Lathe & Machinery Corporation. No. 162,817; Dec. 26.
- Lathes, screw and stay-bolt machines, etc. Turret. Mill-holland Machine Company. No. 154,449; Apr. 11.
- Lathes, Turning. Dalton Manufacturing Corporation. No. 157,040; July 25.
- Launders' materials. H. Kohnstamm & Co. No. 159,196; Sept. 19.
- Laundering tablets, Clothes-. Pixie Corporation. No. 152,950; Mar. 7.
- Laundry and clothes-washing preparation. Hewitt Bros. Soap Company. No. 150,843; Jan. 10.
- Laundry appliances and machines. Certain. American Laundry Machinery Company. No. 155,192; May 23.
- Laundry appliances and machines. Certain. American Laundry Machinery Company. No. 156,610; July 11.
- Laundry appliances. Certain. Little Giant Company. No. 158,250; Aug. 29.
- Laundry appliances. Certain. Pierson Company. No. 155,272; May 23.
- Laundry appliances. Certain. Thomson-Diggs Company. No. 155,293; May 23.
- Laundry blue mounted on a stirrer. O-Zo-Zo Company. No. 156,381; June 20.
- Laundry machinery. Asher Manufacturing Company. No. 153,966; Apr. 4.
- Laundry purposes and in treating textiles. Hot and cold sour for. H. Kohnstamm & Co. No. 159,924; Oct. 10.
- Laundry tubs. Stationary. Chicago Granite Manufacturing Company. Nos. 158,410-11; Sept. 5.
- Laundry washing machines. Getz Power Washer Co. No. 152,786; Mar. 7.
- Laundry washing machines. Voss Brothers Manufacturing Co. Nos. 151,625-7; Feb. 7.
- Lawn surfaces, Machines for cleaning. John Braun & Sons. No. 150,749; Jan. 10.
- Lawns in the piece. Lawrence Textile Co. Nos. 150,875-7; Jan. 10.
- Laxative. Fruit Cake Mfg. Co. No. 160,188; Oct. 17.
- Laxative. Needham Products Company. No. 150,495; Jan. 3.
- Laxative. C. W. Redpath. No. 158,286; Aug. 29.
- Laxative. G. F. Stier. No. 155,539; May 30.
- Laxative. S. Strauss. No. 153,875; Mar. 28.
- Laxative and medicinal preparation. E. A. Hiss. No. 159,900; Oct. 10.
- Laxative cold compound, Liquid. Cooper Medicine Co. No. 152,142; Feb. 21.
- Laxative compound for aiding digestion. T. F. Brann. No. 161,079; Nov. 7.
- Laxative in candy form. R. E. Walsh. No. 155,360; May 23.
- Laxative preparations. Scholtz-Mutual Drug Company. No. 155,820; June 6.
- Laxative tablets. David H. Fulton & Bro. Nos. 160,866-7; Oct. 31.
- Laxatives. W. H. Arthur. No. 152,116; Feb. 21.
- Laxatives. J. H. McKeon. No. 158,255; Aug. 20.
- Laxatives. O. B. Schellberg. No. 153,849; Mar. 28.
- Laxatives and purgatives. D. B. Latimer. No. 152,212; Feb. 21.
- Lead and ready-mixed paints, Tinted. Tripod Paint Co. No. 153,552; Mar. 21.
- Lead pencils, Mechanically-operated. M. S. Rodenberg Co. No. 159,497; Sept. 26.
- Lead, White. Albert Pflug & Co. No. 22,437; renewed Feb. 7, 1923.
- Lead, White. Jacobs & McCafferty. No. 22,066; renewed Nov. 29, 1922.
- Leads for use in mechanical pencils. Wahl Company. No. 159,571; Sept. 26.
- Leather. N. R. Allen's Sons Company. No. 153,094; Mar. 14.
- Leather. American Hide and Leather Company. No. 150,217; Jan. 3.
- Leather. Barnett Leather Co. Inc. No. 151,374; Jan. 31.
- Leather. W. Graham. No. 160,509; Oct. 24.
- Leather. Haffner Brothers Company. No. 155,973; June 13.
- Leather. Hess and Hopkins Leather Company. No. 156,129; June 13.
- Leather. Hudson Leather Company. No. 152,028; Feb. 14.
- Leather. Hudson Leather Company. No. 153,596; Mar. 21.
- Leather. J. H. Jackson Company. No. 155,727; June 6.
- Leather. C. Moench Sons Company. No. 153,937; Mar. 28.
- Leather. Monarch Leather Company. No. 151,194; Jan. 24.
- Leather. Monarch Leather Company. Nos. 155,899-900; June 6.
- Leather. Monarch Leather Company. No. 160,103; Oct. 10.
- Leather. Omaha Tanning Co. No. 159,974; Oct. 10.
- Leather. Chas. A. Schieren Company. No. 162,021; Nov. 28.
- Leather. C. C. Smoot & Sons Co. No. 152,632; Feb. 28.
- Leather and leather bends, sides, blocks, and strips. Tanners Cut Sole Company. No. 157,393; Aug. 1.
- Leather and skins. George Fell & Son Limited. No. 155,687; June 6.
- Leather. Artificial. Cotaroid Company. No. 151,724; Feb. 14.
- Leather belting, belt, lace, picker, hamestring, and legging leather, picker-strap, hamestrings and cut lacings. Page Belting Company. No. 20,833; renewed Feb. 10, 1922.
- Leatherboard and counterboard. George O. Jenkins Company. No. 159,914; Oct. 10.
- Leather, Calf. Barnett Leather Co. No. 153,115; Mar. 14.
- Leather, Calfskin. Weber-Laemmle Tanning Company. No. 160,039; Oct. 10.
- Leather cut stock strips, Sole-. S. D. Rosenfield. No. 156,816; July 11.
- Leather goods. Progressive Leather Goods Co. No. 155,055; May 16.
- Leather goods. Williamsport Leather Goods Company. No. 151,062; Jan. 10.
- Leather, hides, and skins. Sole and upper. Marcus, Forscher & Co. No. 156,007; June 13.
- Leather, Kid and morocco. Quaker City Morocco Co. No. 153,285; Mar. 14.
- Leather of all kinds, skins unwrought and wrought, and articles made of leather. J. Meredith-Jones & Sons. No. 21,070; renewed May 3, 1922.
- Leather, Preparations for waterproofing shoe. E. C. Hodges. No. 155,446; May 30.
- Leather preservatives, finishing and tanning agents. Badische Anilin & Soda-Fabrik. No. 153,970; Apr. 4.
- Leather restorers, cleaners, polishers, and dressings. Rex-Oil Company. No. 150,952; Jan. 10.
- Leather, Sole. Gutterman-Strauss Company. No. 160,203; Oct. 17.
- Leather, Sole. Louis Silberman & Sons. No. 160,017; Oct. 10.
- Leather, Sole. Wilder & Company. No. 162,938; Dec. 26.
- Leather, Sole and harness. Magnus Hessberg Inc. No. 151,166; Jan. 24.
- Leather sole and side. Strauss Leather Company. Nos. 156,436-7; June 20.
- Leathers. Excel Leather Co. No. 154,019; Apr. 4.
- Leathers. A. M. Gutterman & Sons Co. No. 159,891; Oct. 10.
- Leathers. Benjamin V. Harrison Co. No. 159,894; Oct. 10.
- Leathers. L. Nieman. No. 162,845; Dec. 28.

- Leathers, Cup. Mark Manufacturing Company. No. 160,916; Oct. 31.
- Leathers, Finishes for. W. B. Carroll. No. 153,986; Apr. 4.
- Leggings and boots. Safety Equipment Service Company. No. 151,224; Jan. 24.
- Lemons, oranges, and grapefruit, Fresh. Johnston Fruit Company. No. 161,019; Oct. 31.
- Lens. W. E. Moulton. No. 157,155; July 25.
- Lens, Bifocal. Onepiece Bifocal Lens Company. No. 160,347; Oct. 17.
- Lens blanks and ophthalmic lenses, Ophthalmic. Simpson-Walther Lens Co. No. 154,387; Apr. 11.
- Lenses and lens blanks used in correcting eyesight, Optical. J. L. Borsch. No. 162,473; Dec. 19.
- Lenses and lens blanks used in correcting eyesight, Optical. J. L. Borsch. Nos. 162,684-5; Dec. 26.
- Lenses, Automobile-lamp. Filmolens Sales Co. No. 151,129; Jan. 24.
- Lenses, Headlight. R. T. Wing. No. 157,249; July 25.
- Lenses, Ophthalmic. Baltimore Optical Company. No. 161,745; Nov. 21.
- Lenses, Ophthalmic. Bausch & Lomb Optical Co. No. 159,273; Sept. 26.
- Lenses, Ophthalmic. Buffalo Lens Mfg. Co. No. 162,693; Dec. 26.
- Lenses, Ophthalmic. Onepiece Bifocal Lens Company. No. 155,269; May 23.
- Lenses, Optical. F. Hoffa. No. 151,505; Feb. 7.
- Letter folders, Advertising. Advertiser's Art Studios. No. 159,249; Sept. 26.
- Levels, bevels, squares, and cutting gauges, marking gauges, and mortise gauges. Henry Disston & Sons, Incorporated. No. 154,918; May 16.
- Lever-handle instruments. Estate of A. C. Deck. No. 162,059; Dec. 5.
- Licorice tablets or wafers. National Licorice Company. No. 156,018; June 13.
- Ligatures and sutures. Mayo Inc. No. 153,241; Mar. 14.
- Lighting fixtures. Central Electric Company. No. 159,844; Oct. 10.
- Lights, Flash, search, and spot. R. L. Hunter. No. 155,721; June 6.
- Lightning arresters. E. A. Everett. No. 156,667; July 11.
- Lightning conductors. W. C. Shinn Mfg. Co. No. 160,114; Oct. 10.
- Limbs and members, Artificial. F. A. Ritter. No. 152,108; Feb. 14.
- Lime. Marblehead Lime Co. No. 161,372; Nov. 7.
- Lime, Chlorinated. P. C. Tomson & Co. No. 157,595; Aug. 8.
- Lime, Hydrated and quick. Commercial Lime Company. No. 160,422; Oct. 24.
- Lime polishing composition, Certain. A. P. Munning & Co. No. 160,795; Oct. 24.
- Lime, Portland cement, and fire clay, Hydrated. Hat-maker & Place. No. 156,683; July 11.
- Line of proprietary medicines. Koenig Medicine Company. No. 21,103; renewed May 10, 1922.
- Linen and cotton goods. M. Crosbie. No. 158,927; Sept. 19.
- Linen and hemp and union piece goods. Kirk Partners & Forestbrook, Ltd. No. 152,848; Mar. 7.
- Linen and hemp goods. "Old Bleach" Linen Company Limited. No. 161,576; Nov. 14.
- Linen, cotton, silk, and mixed piece goods. N. Erlanger, Blumgart & Co. No. 152,583; Feb. 28.
- Linen-duck padding in the piece. J. Manowitz & Sons. No. 150,464; Jan. 3.
- Linen, Fancy. L. S. E. Co. Inc. No. 158,725; Sept. 12.
- Linen piece goods. Hibben, Hollweg & Co. No. 161,782; Nov. 21.
- Linen piece goods. H. F. Turtle. Nos. 160,117-18; Oct. 10.
- Lincens and canvas in piece goods, tablecloths, napkins, handkerchiefs. Irish Linens, Inc. No. 156,308; June 20.
- Lingerie, Batiste. A. N. Saab. No. 158,797; Sept. 12.
- Lingerie clasps. V. E. Black Company. No. 153,917; Mar. 28.
- Lingerie cloth, Mercerized and unmercerized. Garner Print Works and Bleachery. No. 157,504; Aug. 8.
- Liniment. H. Cocking. No. 153,579; Mar. 21.
- Liniment. A. J. Freeman. No. 158,440; Sept. 5.
- Liniment. Gilbert Bros. & Co. No. 154,033; Apr. 4.
- Liniment. A. B. Green. No. 160,873; Oct. 31.
- Liniment. J. M. Jacobs. No. 150,420; Jan. 3.
- Liniment. J. Laubsch. No. 153,780; Mar. 28.
- Liniment. B. Marsalisse. No. 161,221; Nov. 7.
- Liniment. Trust Estate of Adolph C. Meyer, deceased. No. 151,614; Feb. 7.
- Liniment. J. B. Parrish. No. 152,250; Feb. 21.
- Liniment. Rossville Company. No. 153,079; Aug. 22.
- Liniment. Dr. Earl Sloan Incorporated. No. 150,573; Jan. 3.
- Liniment. S. B. Tizzard. No. 160,983; Oct. 31.
- Liniment and ointment. F. P. Foltz. No. 22,121; renewed Dec. 6, 1922.
- Liniment and preparation for certain uses. E. R. Spencer. No. 151,961; Feb. 14.
- Liniment for certain uses. G. E. Murry. No. 158,034; Aug. 22.
- Liniment for external use only, Bathing. Norwich Pharmaceutical Company, The. No. 155,787; June 6.
- Liniment for goiter. Sedalia Medicine Company. No. 155,827; June 6.
- Liniment for rheumatism. E. E. Davis. No. 158,204; Aug. 29.
- Liniment for rheumatism. G. Ferrera. No. 158,949; Sept. 19.
- Liniment for rheumatism, cuts, burns, etc. E. T. Keller. No. 154,074; Apr. 4.
- Liniment for rheumatism, neuralgia, gout, etc. E. J. Mes-sineo. No. 161,231; Nov. 7.
- Liniment for treatment of rheumatism. J. C. Gustafson. No. 161,147; Nov. 7.
- Liniment for use in the treatment of rheumatism. J. H. Waugh. No. 158,564; Sept. 5.
- Liniment, Massaging. S. A. Fitzgerald. No. 161,136; Nov. 7.
- Liniment, Rubbing. W. H. Harrison. No. 155,976; June 13.
- Liniment, Solidified. American Chemical & Drug Company. No. 157,447; Aug. 8.
- Liniments. M. L. Cassity. No. 154,238; Apr. 11.
- Liniments. J. J. Klavon. No. 156,319; June 20.
- Liniments or embrocations. H. D. Oldham. No. 151,569; Feb. 7.
- Linings for men's wear. Simonson, Rogers & Jaeger. No. 150,571; Jan. 3.
- Linoleum. George W. Blabon Company. Nos. 150,735-6; Jan. 10.
- Linoleum. Tiloleum Limd. No. 152,862; Mar. 7.
- Linoleum, linoleum cork carpet, and certain floor coverings. Armstrong Cork Company. No. 158,330; Aug. 29.
- Lip sticks, nail polish, and incense. Irvin-Smith Co. No. 150,418; Jan. 3.
- Liquid chemical composition for cleaning windows and glassware. Silent Products Co. No. 157,766; Aug. 15.
- Liquid coating material in the nature of a paint. Missouri Paint and Varnish Co. No. 162,446; Dec. 12.
- Liquid composition of matter employed as a treating and tanning agent. Robeson Process Company. No. 155,352; May 23.
- Liquid compositions for sealing pipe and motor casting joints. Louis Montigny. No. 151,037; Jan. 10.
- Liquid for dissolving and removing gallstones. Vital Sando Co. No. 158,315; Aug. 29.
- Liquid for li-r, stomach, and bowel troubles. Vital Sando Co. No. 158,316; Aug. 29.
- Liquid gauges. Akron-Selle Company. No. 157,845; Aug. 22.
- Liquid hydrocarbon to modify its action as motor fuel, Substances soluble in. J. R. White. No. 155,561; May 30.
- Liquid, piston, disk, etc., meters, disk counters. Worthington Pump and Machinery Corporation. No. 153,081; Mar. 7.
- Liquid, piston, etc., meters, disk counters. Worthington Pump and Machinery Corporation. Nos. 156,788-9; July 11.
- Liquid preparation taken internally as an alternative. Robert C. White, Inc. No. 155,867; June 6.
- Liquid rub. Minard Company. No. 161,236; Nov. 7.
- Liquids or semisolids, Stirring machines for. Air-O-Mix Corporation. Nos. 150,703-4; Jan. 10.
- Liquors and cordials. Gordon & Co. No. 21,734; renewed Sept. 13, 1922.
- Liquors and spirits, Fermented. Tollemahe's Ipswich Brewery Limited. No. 151,264; Jan. 24.
- Liquors except brandy, All spirituous and fermented. J. W. Nicholson & Co. No. 21,571; renewed Aug. 9, 1922.
- Liquors, Spirituous. Aktieselskabet de Danske Spritfabrikker. No. 157,846; Aug. 22.
- Listing and mailing sheets, Combined. M. Hartman. No. 155,239; May 23.
- Lithographic solution. Dubar Company. No. 154,271; Apr. 11.
- Lithopone. American Zinc Sales Company. No. 162,469; Dec. 19.
- Lithopone. New Jersey Zinc Company. No. 155,026; May 16.
- Liver regulator and blood purifier. A. H. Lewis Medicine Co. No. 21,202; renewed May 24, 1922.
- Load binders. E. C. Stacy. No. 156,759; July 11.
- Lockers for the storage of valuables, safes, etc., Vault. Barshal Company. No. 156,997; July 25.
- Lockers, wardrobe, and fling cabinets, and steel shelving, Steel. Durabilt Steel Locker Co. No. 162,236; Dec. 12.
- Locks. Aktiebolaget Abloy Osakeyhtio. Nos. 154,859-60; May 16.
- Locks. Wilson Bohannon, Inc. No. 157,254; July 25.
- Locks and keys. Independent Lock & Key Manufacturing Co. Inc. No. 159,382; Sept. 26.
- Locks and latches. E. T. Fraim Lock Co. No. 154,939; May 16.
- Locks and padlocks. C. Judyckl. No. 154,984; May 16.
- Locks and safes. Naamlooze Vennootschap Handel-Maatschappij Planect. No. 155,021; May 16.
- Locks for automobiles. Hershey Manufacturing Company. No. 158,231; Aug. 29.
- Locks, Motor-vehicle-steering-wheel. Walker Motor Car Specialties Co. Nos. 151,000-1; Jan. 10.

Alphabetical list of trade-marks—Continued.

- Locks, latches, and padlocks. E. T. Fraim Lock Company. Nos. 157,066-7; July 25.
- Locks, night latches, and padlocks. Eagle Lock Co. No. 159,342; Sept. 26.
- Locomotive and tractors, Electric. Koppel Industrial Car & Equipment Company. No. 155,738; June 6.
- Locomotive cranes, clamshell buckets, revolving shovels, etc. Browning Company. No. 160,084; Oct. 10.
- Locomotives, steam engines, etc., Certain. J. Mundy. No. 158,269; Aug. 29.
- Locomotives, turntables, bucket excavators, etc. Koppel Industrial Car & Equipment Company. No. 154,989; May 16.
- Loganberry juice. Northwest Fruit Products Co. No. 159,052; Sept. 19.
- Logging engines. Willamette Iron and Steel Works. No. 153,907; Mar. 28.
- Loose-leaf devices. E. A. Paul Wolf Co. No. 160,620; Oct. 24.
- Lotion and beautifier, Face. M. J. Lindsey. No. 151,531; Feb. 7.
- Lotion and liniment. W. S. Charak. No. 153,619; Mar. 28.
- Lotion, Antiseptic. Crown Remedy Company. No. 152,145; Feb. 21.
- Lotion, Complexion. Frederick F. Ingram Company. No. 155,456; May 30.
- Lotion, Cosmetic. T. J. Newlyn. No. 156,897; July 18.
- Lotion, Face. T. Rosenbaum. No. 150,546; Jan. 3.
- Lotion for darkening gray hair, facial creams, toilet lotions, etc. La Tulle Herb Co. No. 161,198; Nov. 7.
- Lotion for dressing the hair. C. F. Root. No. 157,574; Aug. 8.
- Lotion for the feet. Rozium Company. No. 155,521; May 30.
- Lotion, Healing. E. W. Bullock. No. 153,983; Apr. 4.
- Lotion or cream for the skin. J. Kostitch. No. 161,195; Nov. 7.
- Lotion, Skin. E. N. Greenberg. No. 153,737; Mar. 28.
- Lotion, Skin. Lavelvo Company. No. 156,325; June 20.
- Lotion, Skin. Natural Life Face Beautifier. No. 159,962; Oct. 10.
- Lotion, Skin. Ohio Valley Drug Company. No. 154,359; Apr. 11.
- Lotion, Skin. D. L. Rittenhouse. No. 151,582; Feb. 7.
- Lotions and creams, powders, Skin and massage. Kaufman-Straus Co. No. 152,205; Feb. 21.
- Lotions and creams, reducing lotion, etc. Skin. F. N. Lewis. No. 153,598; Mar. 21.
- Lotions, Face. International Consolidated Chemical Corporation Inc. No. 150,415; Jan. 3.
- Lotions, Hand. Chapple Drug Company. No. 160,767; Oct. 24.
- Lotions, Skin. A. C. Graves. No. 153,734; Mar. 28.
- Lozenges, Flavored edible. S. C. Bias. Nos. 156,566-7; June 27.
- Lozenges for throat diseases. J. Bengue. No. 150,246; Jan. 3.
- Lubricant. S. D. Benollet. No. 161,749; Nov. 21.
- Lubricant, Scientific knitting-machine. W. H. & F. Jordan, Jr. Mfg. Co. No. 159,391; Sept. 26.
- Lubricants. Keystone Lubricating Company. No. 154,986; May 16.
- Lubricants. Keystone Lubricating Company. No. 154,987; May 16.
- Lubricants. Whitmore Manufacturing Company. No. 152,644; Feb. 28.
- Lubricating devices and parts, Certain. Carr Fastener Company. No. 153,678; Mar. 28.
- Lubricating oils and greases. Garcia Manzoni Gaze & Cia., Buenos Aires, Argentina. No. 161,942; Nov. 28.
- Lubricator or dressing, Belt. L. F. Edwards. No. 153,157; Mar. 14.
- Lubricators. Greene, Tweed & Co. No. 152,592; Feb. 28.
- Lubricators, Force-feed. Roberts & Monroe. No. 150,957; Jan. 10.
- Luggage carriers and commercial luggage standards. G. A. Roth Manufacturing Co. No. 152,973; Mar. 7.
- Lumber. Anderson-Tully Company. No. 155,922; June 13.
- Lumber. Houston Brothers. No. 150,412; Jan. 3.
- Lumber. E. Jones. No. 160,543; Oct. 24.
- Lumber. Red River Lumber Company. Nos. 156,038-9; June 13.
- Lumber. Red River Lumber Company. No. 159,746; Oct. 3.
- Lumber and shingles. Federal Cedar Mill Co. No. 152,764; Mar. 7.
- Lumber, Hardwood. Belgrade Lumber Company. Nos. 160,388-9; Oct. 24.
- Lumber, shingles, etc., Dressed. Oettinger Lumber Company. No. 152,920; Mar. 7.
- Lye. Northern Jobbing Company. No. 161,246; Nov. 7.
- Lye. P. C. Tomson & Co. No. 157,594; Aug. 8.
- Lye. P. C. Tomson & Co. No. 158,550; Sept. 5.
- Lye. S. Wander & Sons Chemical Co. No. 161,336; Nov. 7.
- Lymphatic compound for treatment of certain ailments. Pioneer Drug Company. No. 151,301; Jan. 24.
- Macaroni. Bragno & Mustari. No. 156,634; July 11.
- Macaroni. Minnesota Macaroni Co. No. 156,014; June 13.
- Macaroni. Pfaffmann Egg Noodle Co. No. 161,900; Nov. 21.
- Macaroni sauce and spaghetti. Alpa Preserve Co. No. 162,465; Dec. 19.
- Macaroni and spaghetti. Sun Manufacturing Company. No. 153,877; Mar. 28.
- Macaroni, spaghetti, alimentary paste. G. Matalone. No. 152,876; Mar. 7.
- Macaroni, spaghetti, egg noodles. Macaroni Foods Corporation. No. 151,858; Feb. 14.
- Machine tools. Niles-Bement-Pond Company. No. 153,809; Mar. 28.
- Machine tools. Steel Products Engineering Company. No. 157,209; July 25.
- Machinery. Treadwell Engineering Company. No. 158,117; Aug. 22.
- Machinery, Agricultural. Moline Plow Company. No. 160,585; Oct. 24.
- Machinery and parts thereof, Certain. Arthur Müller Bauten und Industriewerke. No. 161,914; Nov. 28.
- Machinery and tools, Certain. Axelson Machine Company. No. 156,169; June 20.
- Machinery and tools, Certain. O. A. Bremer Co. No. 151,435; Feb. 7.
- Machinery and tools, Certain. R. Herschel Manufacturing Co. No. 162,010; Nov. 28.
- Machinery and tools, Certain. Railway Specialty Company. No. 151,576; Feb. 27.
- Machinery and tools, Certain. United Iron Works, Inc. No. 152,527; Feb. 28.
- Machinery, Certain. Allis-Chalmers Manufacturing Company. No. 158,327; Aug. 29.
- Machinery, Certain. Metropolitan-Vickers Electrical Co. No. 152,459; Feb. 28.
- Machinery, Certain. Treadwell Engineering Company. No. 157,292; July 25.
- Machinery, Certain. Worthington Pump and Machinery Corporation. No. 161,859; Nov. 21.
- Machinery, Certain road and other. Gallon Iron Works & Mfg. Co. No. 161,874; Nov. 21.
- Machinery guards. Orr Machine Guarding Co. No. 153,271; Mar. 14.
- Machinery packing. Anchor Packing Company. No. 160,368; Oct. 24.
- Machinery packing. Revere Rubber Company. No. 159,997; Oct. 10.
- Machinery wheels and gears. American Steel Foundries. No. 156,612; July 11.
- Machines and parts of machinery, Certain. Lunkenheimer Company. No. 159,422; Sept. 26.
- Machines and parts thereof and tools used in the manufacture of boots and shoes. United Shoe Machinery Corporation. No. 158,129; Aug. 22.
- Machines and tools and spoons of base metal, Certain. Bessire & Company. No. 150,734; Jan. 10.
- Madras, Cotton. Berkeley Company. No. 152,349; Feb. 28.
- Magazine. Dell Publishing Co. No. 162,225; Dec. 12.
- Magazine. G. B. Monk. No. 157,717; Aug. 15.
- Magazine, Biweekly. Sherwin Publishing Corporation. No. 150,565; Jan. 3.
- Magazine, Cover of its educational and scientific monthly. National Organization for Public Health Nursing. No. 162,562; Dec. 19.
- Magazine issued twice monthly. Street & Smith Corporation. No. 155,093; May 16.
- Magazine, Monthly. California Citigraph Publishing Company. No. 150,275; Jan. 3.
- Magazine, Monthly. Eastman Kodak Company. No. 152,025; Feb. 14.
- Magazine, Monthly. Franklin Company. No. 155,229; May 23.
- Magazine, Monthly. Heating and Ventilating Magazine Co. No. 162,261; Dec. 12.
- Magazine, Monthly. Keystone Publishing Company. No. 157,530; Aug. 8.
- Magazine, Monthly. J. V. Kohlhaas. No. 157,698; Aug. 15.
- Magazine, Monthly. T. Levis. No. 162,291; Dec. 12.
- Magazine, Monthly. Lincoln Fiscal Agency. Nos. 157,534-5; Aug. 8.
- Magazine, Monthly. Long Printing Company. No. 151,851; Feb. 14.
- Magazine, Monthly. C. E. Miller. No. 151,873; Feb. 14.
- Magazine, Monthly. Palmer Photoplay Corporation. No. 157,736; Aug. 15.
- Magazine, Monthly. Paluszek Brothers, Inc. No. 153,506; Mar. 21.
- Magazine, Monthly. Readers' Publishing Corporation. No. 158,783; Sept. 12.
- Magazine, Monthly. Trestle Board. No. 162,391; Dec. 12.
- Magazine, Monthly. G. F. Weeks. No. 152,044; Feb. 14.
- Magazine, Monthly. Western Machinery World. No. 162,408; Dec. 12.
- Magazine, Monthly. Woman's World Magazine Co. Inc. No. 156,564; June 27.
- Magazine, Musical. Musical Courier Company. No. 162,324; Dec. 12.
- Magazine published monthly. C. I. Campbell. No. 162,209; Dec. 12.
- Magazine published monthly. B. V. Crandall. No. 158,925; Sept. 19.
- Magazine section. Eastern Advertising Company. No. 155,223; May 23.
- Magazine, Semiannual. W. B. Thompson. No. 153,550; Mar. 21.

Alphabetical list of trade-marks—Continued.

- Magazine, Semimonthly. Plumbers Trade Journal Publishing Company. No. 155,273; May 23.
- Magazine, Trade. Rodger Publishing Company. No. 157,573; Aug. 8.
- Magazine, Weekly. Gehring Publishing Company. No. 155,231; May 23.
- Magazines. R. Kanofsky. No. 162,279; Dec. 12.
- Magazines. Yellow Duck Publishing Company. No. 153,508; Mar. 21.
- Magazines, books, booklets, pamphlets, catalogues. John Martin's House, Inc. No. 157,540; Aug. 8.
- Magazines, Fiction. Street & Smith Corporation. No. 162,386; Dec. 12.
- Magazines, Monthly. B. E. Barnes. No. 152,017; Feb. 14.
- Magazines, Monthly. Briggs & Stratton Company. No. 151,686; Feb. 14.
- Magazines, Monthly. Corona Typewriter Company. No. 153,481; Mar. 21.
- Magazines, Monthly. Knights of Columbus. No. 153,479; Mar. 21.
- Magazines, Monthly. Practical Electrics Company. No. 157,566; Aug. 8.
- Magazines, Monthly. Street & Smith Corporation. No. 159,125; Sept. 19.
- Magazines, Monthly. Westinghouse Electric & Manufacturing Company. No. 162,409; Dec. 12.
- Magazines published monthly. John Martin's House, Inc. No. 158,986; Sept. 19.
- Magazines published monthly. Ramp Buildings Corporation. No. 158,781; Sept. 12.
- Magazines, Weekly. Street & Smith Corporation. No. 159,126; Sept. 19.
- Magazines, Weekly. Westinghouse Electric & Manufacturing Company. No. 162,411; Dec. 12.
- Magnesia, Cream of. Magnesium Products Co. No. 154,091; Apr. 4.
- Magnesium alloys and castings and forgings produced therefrom. Magna Metal Corporation. No. 155,250; May 23.
- Magnets used for hoisting loads, and electric motors. Lifting. Ohio Electric Controller Company. No. 162,647; Dec. 19.
- Magneto to internal-combustion engines and magneto drive couplings therefor. Attachments for fitting. Magneto Attachment Co. No. 152,454; Feb. 28.
- Mailing wrappers. International Mailing Tube & Wrapper Co. No. 159,385; Sept. 26.
- Malagas. Fowler Grape Growers Association. No. 154,787; May 9.
- Malines, tulles, and nettings in the piece. Herbert B. Lederer Co. No. 152,213; Feb. 21.
- Malt. G. & H. Products Co. No. 158,958; Sept. 19.
- Malt and fruit extracts and sirups. S. L. Goldman. No. 151,778; Feb. 14.
- Malt and hop extracts for beverages. Gottfried Krueger Brewing Company. No. 157,965; Aug. 22.
- Malt and hops compound. R. Francione. No. 160,490; Oct. 24.
- Malt and hops, Concentrated material brewed from. New England Brewing Company. No. 152,909; Mar. 7.
- Malt extract. C. W. Bauer. No. 153,976; Apr. 4.
- Malt extract. Blue Bird Malt Co. No. 156,625; July 11.
- Malt extract. H. Corcoran. No. 151,721; Feb. 14.
- Malt extract. Decatur Brewing Company. No. 150,327; Jan. 3.
- Malt extract. A. Endres. No. 154,926; May 16.
- Malt extract. Hagen-Becker Co. No. 153,743; Mar. 28.
- Malt extract. J. J. Haupt. No. 155,240; May 23.
- Malt extract. H. Kasser. No. 152,436; Feb. 28.
- Malt extract. P. I. Kriger. No. 151,340; Jan. 31.
- Malt extract. G. Loewus & Co. No. 154,612; Apr. 18.
- Malt extract. M. J. Murphy. No. 158,506; Sept. 5.
- Malt extract. M. J. Murphy. No. 159,960; Oct. 10.
- Malt extract. Pacific Malt & Hops Co. No. 155,043; May 16.
- Malt extract. L. Page. No. 152,766; Mar. 7.
- Malt extract. Queen City Extract Company. No. 154,133; Apr. 4.
- Malt extract. M. C. Rosenfeld Company. No. 158,078; Aug. 22.
- Malt extract. Chas. W. Schied. No. 153,944; Mar. 28.
- Malt extract. Society of Chemical Industry in Basle. No. 153,865; Mar. 28.
- Malt extract. Oscar Von Bernuth, Inc. No. 160,812; Oct. 24.
- Malt extract. N. Zohman. No. 153,364; Mar. 14.
- Malt extract and drier grains for making malt beverages. Dimex Malt Extract Co. No. 160,854; Oct. 31.
- Malt extract and malt sugar. C. W. Bayer. No. 162,674; Dec. 26.
- Malt extract for beverage purposes. G. Petcoff. No. 162,980; Dec. 26.
- Malt extract for food purposes. High Test Malt Extract Co. No. 157,417; Aug. 1.
- Malt extract for food purposes. Pabst Corporation. No. 156,902; July 18.
- Malt extract for food purposes. Primalt Products Co. No. 158,777; Sept. 12.
- Malt extract, Liquid. National Beverage Distributing Co. No. 151,848; Jan. 31.
- Malt extract, Liquid. Chas. Volker & Son. No. 162,536; Feb. 28.
- Malt-extract sirup for food purposes. Schreiber Products Corporation. No. 158,531; Sept. 5.
- Malt-extract sirup for food purposes. Schreiber Products Corporation. No. 158,802; Sept. 12.
- Malt-extract sirup for food purposes. Schreiber Products Corporation. Nos. 159,087-9; Sept. 19.
- Malt extract with paraffin, Crystalline. Wander Company. No. 150,640; Jan. 3.
- Malt extracts. Henning Wennersten Incorporated. No. 161,951; Nov. 28.
- Malt extracts. H. Krauss. No. 158,475; Sept. 5.
- Malt extracts. C. Motekewecz. No. 151,884; Feb. 14.
- Malt extracts. A. Wielich. No. 151,282; Jan. 24.
- Malt extracts. A. Wielich. No. 158,145; Aug. 22.
- Malt extracts and sirups. V. Neustadtl. No. 160,602; Oct. 24.
- Malt extracts, Concentrated liquid. Malt-Diastase Company. No. 151,185; Jan. 24.
- Malt extracts, Concentrated liquid. Malt-Diastase Company. No. 159,430; Sept. 26.
- Malt extracts, Liquid and concentrated. Malt-Diastase Company. No. 156,485; June 20.
- Malt, hops, and cereal products, Concentrate of. New England Brewing Company. Nos. 154,108-9; Apr. 4.
- Malt sirup. J. S. Costa. No. 153,688; Mar. 28.
- Malt sirup. Geo. Herrmann Company. No. 154,571; Apr. 18.
- Malt sirup. Fred Miller Brewing Company. No. 151,345; Jan. 31.
- Malt sirup. E. J. Weston. No. 153,055; Mar. 7.
- Malt sirup and extract. Hudson Distributing Company. Nos. 154,061-2; Apr. 4.
- Malt sirup, extracts, and beverages. Gerhard Lang Brewery. No. 151,134; Jan. 24.
- Malt sirup used as a food product. L. C. Robinson. No. 158,289; Aug. 29.
- Manicure files. P. B. T. Williams. No. 161,389; Nov. 7.
- Manicure oil and nail-polish. M. J. Hasden. No. 155,439; May 30.
- Manicure sets and absorbent cotton. Northern Warren Corporation. No. 160,323; Oct. 17.
- Manicuring felts and buffers. Purity Wool Preparing Company. No. 161,377; Nov. 7.
- Manicuring implements and accessories. H. D. Koenig. No. 159,008; Sept. 19.
- Manifolds, fuel economizers for hydrocarbon internal-combustion motors. A. L. Smith Motors, Inc. No. 150,971; Jan. 10.
- Manties, Gas. Lindsey Light Company. No. 151,184; Jan. 24.
- Manuals, lesson sheets, and pamphlets, and answer sheets. American University of Commerce. No. 154,819; May 9.
- Manure, Pulverized poultry. Poultry Feed Company. No. 153,283; Mar. 14.
- Maple sirup, sugar, and cream, and maple-sugar candy. Equinox Mountain Spring Inc. No. 152,393; Feb. 28.
- Maps, atlases, miscellaneous books, magazines, etc. Rand McNally and Company. No. 157,707; Aug. 15.
- Maps, pamphlets, and books, Printed. American Automobile Association. Nos. 155,189-90; May 23.
- Marble and stone. F. de Bellegarde. No. 154,009; Apr. 4.
- Margarine, Nut. Seaman Brothers. No. 153,620; Mar. 21.
- Marking machines. Markem Machine Co. No. 161,548; Nov. 14.
- Marking tools. Jas. H. Matthews & Co. No. 155,013; May 16.
- Marmalade. J. & J. V. Hoegen & Company. No. 158,705; Sept. 12.
- Marmalade, Apricot. A. Mainzer. No. 152,869; Mar. 7.
- Marmalade, plum pudding, dairy products, meats, etc. John Morrell & Company. No. 159,445; Sept. 26.
- Marmalades, jams, conserves, etc. Fruit. Phoebe Green Company. No. 156,910; July 18.
- Marshmallow and chocolate creams. Mary Heath Company. No. 160,578; Oct. 24.
- Marshmallow topping. Jos. Middleby, Jr., Inc. No. 153,246; Mar. 14.
- Mascot, Novelty in the nature of a. P. Jones. No. 161,953; Nov. 28.
- Mash, starting and growing foods, hatching eggs, and baby chickens, Laying. A. E. Kerlin. No. 159,397; Sept. 26.
- Mask, Nonmassage liquid. G. G. Roloff. No. 154,373; Apr. 11.
- Massage preparation for certain named purposes. C. A. Stuart. No. 158,108; Aug. 22.
- Massaging cup. Thompson-Barlow Company. No. 153,549; Mar. 21.
- Massaging the gums, Instrument for. Societe des Appareils mecaniques d'Hygiene buccale. No. 159,763; Oct. 3.
- Matches. C. F. Conrad. No. 154,517; Apr. 18.
- Matches. Diamond Match Company. No. 152,747; Mar. 7.
- Matches. J. B. Ellwood. No. 155,410; May 30.
- Matches. General Match Company. No. 153,728; Mar. 28.
- Matches. Jönköpings Och Vulcans Tändsticksfabriksaktiebolag. No. 156,585; July 18.
- Matches. Jönköpings Och Vulcans Tändsticksfabriksaktiebolag. No. 157,993; Aug. 22.
- Matches. Jönköpings Och Vulcans Tändsticksfabriksaktiebolag. Nos. 161,513-14; Nov. 14.
- Matches. Ohio Match Company. Nos. 155,579-80; May 30.

Alphabetical list of trade-marks—Continued.

- Matches. John Sexton and Company. No. 152,991; Mar. 7.
- Matches. Standard Match Corporation. No. 153,536; Mar. 21.
- Matches. Suzuki & Co. No. 153,016; Mar. 7.
- Matches. Union Allumettièrre Société Anonyme. No. 155,545; May 30.
- Matches. Zündwaren-Aktiengesellschaft "Helios." No. 153,567; Mar. 21.
- Matches, Friction. T. A. Palmer. No. 161,252; Nov. 7.
- Mats, Dry. H. Reeve Angel & Co. No. 160,802; Oct. 24.
- Mattress. Sleep-Well Mattress Co. No. 150,572; Jan. 3.
- Mattress protectors, table pads, padding, and nursery cloth. Quilted. Excelsior Quilting Company. No. 150,808; Jan. 10.
- Mattresses. Baicalo Manufacturing Company. No. 153,403; Mar. 21.
- Mattresses. Balveat Mfg. Co. No. 155,608; June 6.
- Mattresses. L. I. Cohn. No. 162,215; Dec. 12.
- Mattresses. John Donohue & Sons, Inc. No. 155,670; June 6.
- Mattresses. Gangelhoff Bros. No. 155,692; June 6.
- Mattresses. John Hoey & Co. No. 158,983; Sept. 19.
- Mattresses. C. F. Lottman & Sons. No. 155,752; June 6.
- Mattresses. C. F. Lottman & Sons. No. 157,706; Aug. 15.
- Mattresses. McLoskey & Co. No. 153,488; Mar. 21.
- Mattresses. National Bedding Co., The. No. 151,038; Jan. 10.
- Mattresses. Never-Stretch Mattress Company. Nos. 160,345-6; Oct. 17.
- Mattresses. Perfection Mattress & Spring Co. No. 158,165; Aug. 22.
- Mattresses. Perfection Mattress & Spring Co. No. 158,165; Aug. 22.
- Mattresses. A. T. Reynolds. No. 157,748; Aug. 15.
- Mattresses. John A. Schwarz, Inc. No. 155,822; June 6.
- Mattresses. Shifman Brothers. No. 159,099; Sept. 19.
- Mattresses. Stearns & Foster Company. Nos. 155,584-8; May 30.
- Mattresses. Stearns & Foster Company. Nos. 159,115-19; Sept. 19.
- Mattresses. Sugarland Industries. No. 151,054; Jan. 10.
- Mattresses. Sugarland Industries. No. 151,966; Feb. 14.
- Mattresses. Utica Bedding Factory, Inc. No. 155,590; May 30.
- Mattresses. Utica Bedding Factory, Inc. Nos. 159,136-7; Sept. 19.
- Mattresses and bed springs. De Witt-Seitz Co. No. 157,667; Aug. 15.
- Mattresses and cushions. J. M. Hansen. No. 153,459; Mar. 21.
- Mattresses, bed springs, pillows. O. D. Baker Company. No. 162,472; Dec. 19.
- Mattresses, box springs, bed springs, and pillows. Akron Mattress Manufacturing Company. Nos. 158,876-7; Sept. 19.
- Mattresses, cushions, beds, etc. Burton-Dixie Corporation. No. 158,908; Sept. 19.
- Mattresses, Felt. International Bedding Co. No. 155,724; June 6.
- Mattresses, Felt. International Bedding Co. Inc. No. 155,725; June 6.
- Mattresses, pillows. H. Wessel. No. 152,002; Feb. 14.
- Mattresses, pillows, and box springs. International Bedding Co. No. 161,018; Oct. 31.
- Mattresses, pillows, and box springs. International bedding Co. No. 162,274; Dec. 12.
- Mattresses, pillows, bedsteads, sleeping couches, and day beds. C. S. Steiner. No. 162,601; Dec. 19.
- Mattresses, pillows, bolsters, cushions. Robinson-Rodgers Co. No. 157,752; Aug. 15.
- Mattresses, pillows, box springs. International Bedding Co. No. 152,314; Feb. 21.
- Mattresses, pillows, box springs. International Bedding Co. Nos. 153,469-70; Mar. 21.
- Mattresses, pillows, etc. T. A. Holtzclaw. No. 150,407; Jan. 5.
- Mayonnaise. B. Alperin. No. 156,982; July 25.
- Mayonnaise and Russian dressing. Chevy Chase Food Products Co. No. 156,853; July 18.
- Mayonnaise and Russian dressings, olive mayonnaise. J. S. McGowan. No. 151,868; Feb. 14.
- Mayonnaise and tartar-sauce dressing. R. H. Johnson & Co. No. 161,956; Nov. 28.
- Mayonnaise dressing. Kelly Buss Corner Company. No. 151,830; Feb. 14.
- Mayonnaise dressing. H. Kuhlken. No. 153,778; Mar. 28.
- Mayonnaise dressing. Vogeler Bros. Inc. No. 156,075; June 13.
- Mayonnaise, salad, and Thousand Island dressings. H. S. Brown. No. 152,362; Feb. 28.
- Meal. Cottonseed. Ashcraft-Wilkinson Company. No. 159,261; Sept. 26.
- Meal, Cottonseed. H. Humphreys. No. 161,884; Nov. 21.
- Measuring and scientific appliances. New Era Optical Co. Nos. 150,917-18; Jan. 10.
- Measuring and scientific appliances, Certain. Scintilla. No. 161,980; Nov. 28.
- Measuring and scientific appliances, Certain. Westinghouse Electric & Manufacturing Company. No. 152,083; Feb. 14.
- Measuring machines, Cloth-. Registrometer Corporation. No. 154,369; Apr. 11.
- Measuring weight or pull, Machine for. Little Giant Company. No. 159,417; Sept. 26.
- Meat, hash, soup, bouilli, bread, vegetables. Boston Food Products Co. No. 159,284; Sept. 26.
- Meat, Hog or pork. Swift and Company. No. 154,809; May 9.
- Meat, meat products, and other foods. Morris & Company. No. 160,588; Oct. 24.
- Meat mincers, grinders, and choppers. Husqvarna Vapenfabriks Aktiebolag. No. 153,761; Mar. 28.
- Meat products. North Packing and Provision Company. No. 22,128; renewed Dec. 6, 1922.
- Meats. Barton & Co. No. 159,803; Oct. 10.
- Meats and lard, Smoked. Memphis Packing Corporation. No. 157,713; Aug. 15.
- Meats and lard, Smoked. Memphis Packing Corporation. No. 158,353; Aug. 29.
- Meats, lard, dairy products, marmalade, etc. John Morrell & Company. No. 161,822; Nov. 22.
- Meats, meat products, and other foods. Morris & Company. No. 159,446; Sept. 26.
- Meats, meat products, and other foods. Morris & Company. No. 162,832; Dec. 26.
- Meats, sausage, and lard, Cured. Farmers Terminal Packing Company. No. 159,181; Sept. 19.
- Meats, sausages, and frankfurters, lard, salad oil, etc., Smoked. Virden Packing Company. No. 157,236; July 25.
- Meats, scrapple, chile con carne, pig souce, mince meat. Yellowstone Packing Company. No. 159,601; Sept. 26.
- Medals and badges. Dieges & Clust. No. 158,206; Aug. 29.
- Medals and badges. John B. Murphy, Inc. No. 162,323; Dec. 12.
- Medical and surgical appliances. Meinecke & Company. No. 154,834; May 9.
- Medical and surgical appliances, Certain. A. E. Fraass. No. 153,171; Mar. 14.
- Medical and surgical appliances, Certain. Miller Rubber Company. No. 152,615; Feb. 28.
- Medical appliances, Certain. Reid Bros., Inc. No. 151,303; Jan. 24.
- Medical appliances, Certain. United Retail Chemists Corporation. No. 154,406; Apr. 11.
- Medical compound for the feet. C. F. Osborne. No. 159,976; Oct. 10.
- Medical compound for the treatment of consumption. D. De Leary. No. 151,462; Feb. 7.
- Medical compound for the treatment of venereal diseases. York Laboratories Company. No. 151,651; Feb. 7.
- Medical compound for treating colds, coughs, hay fever, catarrh, etc. Snuffo Company. No. 158,099; Aug. 22.
- Medical compounds for lung and throat diseases. Vapo-Cresolene Company. No. 21,647; renewed Aug. 16, 1922.
- Medical compounds for treatment of hogs, horses, etc. E. B. Fenton, M. D. C. No. 155,417; May 30.
- Medical preparation. Hanson Manufacturing Company. No. 150,396; Jan. 3.
- Medical preparation. Kamp & Dutton. No. 157,424; Aug. 1.
- Medical preparation for black tongue, sore mouth, and distemper. Southern Veterinary Remedies Company. No. 150,584; Jan. 3.
- Medical preparation for colds, flu, and la grippe. J. P. Manion. No. 153,786; Mar. 28.
- Medical preparation for constipation and disease caused by weakness of the bowels. J. Gestelra. No. 156,262; June 20.
- Medical preparation for reducing blood pressure. Stoddart Bros. Inc. No. 160,305; Oct. 17.
- Medical preparation for sore throat, cuts, sores, etc. Kwik Mfg. Co. No. 155,742; June 6.
- Medical preparation for the feet. N. J. Getlen. No. 155,695; June 6.
- Medical preparation for treating the feet against sweat secretions. A. G. Petkus. No. 155,796; June 6.
- Medical preparation for treatment of skin diseases. S. Finkel. No. 152,168; Feb. 21.
- Medical tablets, Hemoglobin. E. F. Mattutat. No. 151,541; Feb. 7.
- Medicament volatilizers. Volto Company. No. 153,086; Mar. 7.
- Medicated bougies for human use. Produits Chimiques & Pharmaceutiques Meurice Societe Anonyme. No. 157,376; Aug. 1.
- Medicated compound for female ailments. W. M. Konikov. No. 161,194; Nov. 7.
- Medicated confection useful in stimulating digestion. D. C. Rose. No. 158,526; Sept. 5.
- Medicated fiber for toothache and earache, Sterilized. F. A. Monroe. No. 152,887; Mar. 7.
- Medicated powder for treatment of pyorrhea. Riggs Chemical Laboratories. No. 153,838; Mar. 28.
- Medicated preparation for dyspepsia, nausea, etc. Thatcher-Clore Drug Co. No. 155,848; June 6.
- Medicinal and pharmaceutical preparation. Globe Drug Company. No. 150,380; Jan. 3.
- Medicinal and pharmaceutical preparation for indigestion, Certain. J. R. Carr. No. 158,400; Sept. 5.
- Medicinal and pharmaceutical preparations, Certain. H. Crooks. No. 159,322; Sept. 26.

Alphabetical list of trade-marks—Continued.

- Medicinal and pharmaceutical preparations, Certain. Household Remedies Company. No. 151,509; Feb. 7.
- Medicinal and pharmaceutical preparations, Certain. Trust Estate of Adolph C. Meyer, deceased. Nos. 151,609-13; Feb. 7.
- Medicinal and pharmaceutical preparations, Certain. L. S. Osman. No. 153,815; Mar. 28.
- Medicinal and pharmaceutical preparations, Certain. Owl Drug Company. No. 156,380; June 20.
- Medicinal and pharmaceutical preparations, Certain. S. Pfeiffer Mfg. Co. No. 153,822; Mar. 28.
- Medicinal and pharmaceutical preparations, Certain. Puritan Pharmaceutical Co. No. 153,829; Mar. 28.
- Medicinal and pharmaceutical preparations, Certain. Frederick Stearns & Co. No. 161,640; Nov. 14.
- Medicinal and prophylactic preventive of venereal diseases. P. Chapelle. No. 161,096; Nov. 7.
- Medicinal and toilet preparation. B. M. Johnson Manufacturing Co. No. 150,422; Jan. 3.
- Medicinal and toilet preparation, Certain. J. B. Shenk. No. 157,386; Aug. 1.
- Medicinal and toilet preparations, Certain. Aachener Thermalwasser "Kaiserbrunnen," Aktiengesellschaft. No. 160,353; Oct. 24.
- Medicinal and toilet preparations, Certain. V. F. Bruknes. No. 158,196; Aug. 29.
- Medicinal and toilet preparations, Certain. Leon Maurice Laboratories. No. 158,259; Aug. 29.
- Medicinal and toilet preparations, Certain. Prontic Drug-gists, Inc. No. 150,525; Jan. 3.
- Medicinal and toilet preparations, Certain. Pureline Company. No. 160,945; Oct. 31.
- Medicinal, chemical, and pharmaceutical preparations, Certain. D. Quateman. No. 159,485; Sept. 26.
- Medicinal compound. H. L. Hicks. No. 155,334; May 23.
- Medicinal compound. Py-Re-Gon Company. No. 159,065; Sept. 19.
- Medicinal compound for rheumatic ailments. B. Uhlmann. No. 152,285; Feb. 21.
- Medicinal compound for rheumatism, &c. F. J. Emerson. No. 156,236; June 20.
- Medicinal compound for the treatment of piles, sore feet, and sores. Wilson Pile Cure Co. No. 161,344; Nov. 7.
- Medicinal dye. Merck & Co. No. 151,544; Feb. 7.
- Medicinal food product. Phytamin Corporation. Nos. 158,058-9; Aug. 22.
- Medicinal herb preparations, Certain. United Star Herb Medicine Co. No. 160,989; Oct. 31.
- Medicinal ointment. Bell Chemical Co. No. 159,805; Oct. 10.
- Medicinal, pharmaceutical, and toilet preparations. I. B. Jefferson. No. 153,236; Aug. 29.
- Medicinal powder, Poultry. G. Lanka. No. 151,528; Feb. 7.
- Medicinal preparation. Angier Chemical Co. No. 152,115; Feb. 21.
- Medicinal preparation. BiSoDol Co. No. 157,310; Aug. 1.
- Medicinal preparation. C. J. Brooks. No. 159,820; Oct. 10.
- Medicinal preparation. Calco Chemical Company. No. 150,274; Jan. 8.
- Medicinal preparation. Dairy Association Co. No. 154,770; May 2.
- Medicinal preparation. L. C. Dimick. No. 154,269; Apr. 11.
- Medicinal preparation. G. Fisher, Jr. No. 153,717; Mar. 28.
- Medicinal preparation. V. Halper. No. 151,500; Feb. 7.
- Medicinal preparation. C. G. Hambo. No. 157,340; Aug. 1.
- Medicinal preparation. Hoffmann-La Roche Chemical Works. No. 160,209; Oct. 17.
- Medicinal preparation. J. A. Jones. No. 154,305; Apr. 11.
- Medicinal preparation. Kruger Drug Co. No. 156,322; June 20.
- Medicinal preparation. Eli Lilly & Company. No. 159,348; Sept. 26.
- Medicinal preparation. Mall Dunn Medicine Company. No. 161,220; Nov. 7.
- Medicinal preparation. F. J. Marecki. No. 152,097; Feb. 14.
- Medicinal preparation. P. Metadier. No. 157,360; Aug. 1.
- Medicinal preparation. Nalgen Chemical Company. No. 154,340; Apr. 11.
- Medicinal preparation. National Pyro-Zene Company. No. 161,243; Nov. 7.
- Medicinal preparation. New England Laboratory Co. No. 159,963; Oct. 10.
- Medicinal preparation. Ovalyn Laboratories Incorporated. No. 154,360; Apr. 11.
- Medicinal preparation. Peruna Company. Nos. 156,966-7; July 18.
- Medicinal preparation. Ultra Refined Crude Products Co. No. 159,558; Sept. 26.
- Medicinal preparation. W. P. Wallace. No. 153,898; Mar. 28.
- Medicinal preparation. Werne Manufacturing Company. No. 154,177; Apr. 4.
- Medicinal preparation and hair restorer. Kirbarine Co. No. 152,208; Feb. 21.
- Medicinal preparation and toilet preparation. S. P. Hite Company. No. 150,399; Jan. 3.
- Medicinal preparation and tonic for the treatment of nervous debility, etc. A. M. Hopper. No. 162,159; Dec. 5.
- Medicinal preparation, Certain. Adlerika Company. No. 150,211; Jan. 3.
- Medicinal preparation, Certain. H. F. Alexander, M. D. No. 154,215; Apr. 11.
- Medicinal preparation, Certain. Bhutia & Pratt. No. 154,229; Apr. 11.
- Medicinal preparation, Certain. Blanding and Blanding, Inc. No. 157,461; Aug. 8.
- Medicinal preparation, Certain. Bryant, French & Company. No. 157,881; Aug. 22.
- Medicinal preparation, Certain. Comer, Fetterly & Co. Nos. 152,139-40; Feb. 21.
- Medicinal preparation, Certain. Comer, Fetterly & Co. No. 155,398; May 30.
- Medicinal preparation, Certain. Crown Remedy Company. No. 152,144; Feb. 21.
- Medicinal preparation, Certain. Dr. Peter Fahrney & Sons Co. Nos. 157,329-33; Aug. 1.
- Medicinal preparation, Certain. Dr. Peter Fahrney & Sons Co. No. 158,434; Sept. 5.
- Medicinal preparation, Certain. F. Ferrone. No. 155,418; May 30.
- Medicinal preparation, Certain. R. Filkins. No. 152,167; Feb. 21.
- Medicinal preparation, Certain. R. J. Gates. No. 152,183; Feb. 21.
- Medicinal preparation, Certain. A. A. Glassman. No. 157,335; Aug. 1.
- Medicinal preparation, Certain. W. H. Gross. No. 160,874; Oct. 31.
- Medicinal preparation, Certain. M. J. Hansen. No. 158,349; Aug. 29.
- Medicinal preparation, Certain. George F. Hogan & Ruben Blundell. No. 153,465; Mar. 21.
- Medicinal preparation, Certain. J. D. Howard. No. 155,449; May 30.
- Medicinal preparation, Certain. Hydrarginol Company. No. 157,524; Aug. 8.
- Medicinal preparation, Certain. Mackie Pine Oil Specialty Co. No. 152,221; Feb. 21.
- Medicinal preparation, Certain. F. X. Mantsion. No. 157,538; Aug. 8.
- Medicinal preparation, Certain. Nodol Medicine Co. No. 152,244; Feb. 21.
- Medicinal preparation, Certain. Organ-Iron Company. No. 155,500; May 30.
- Medicinal preparation, Certain. Dr. L. Plantier. No. 152,252; Feb. 21.
- Medicinal preparation, Certain. Prunier & Cie. No. 150,527; Jan. 3.
- Medicinal preparation, Certain. George H. Rundle Company. No. 157,383; Aug. 1.
- Medicinal preparation, Certain. E. I. Runner. No. 160,280; Oct. 17.
- Medicinal preparation, Certain. Santerba Perfumery Manufacturer Inc. No. 159,084; Sept. 19.
- Medicinal preparation, Certain. Sharp & Dohme. No. 150,564; Jan. 3.
- Medicinal preparation, Certain. J. M. Stewart. No. 152,279; Feb. 21.
- Medicinal preparation, Certain. G. S. Stoddard & Co. Nos. 157,836-8; Aug. 15.
- Medicinal preparation, Certain. Torrance & Kleider. No. 160,116; Oct. 10.
- Medicinal preparation, Certain. William R. Warner & Co. No. 152,081; Feb. 14.
- Medicinal preparation, Certain. J. Weber, jr. No. 157,840; Aug. 15.
- Medicinal preparation, Certain. Youth-Gland Chemical Laboratories, Ltd. No. 152,304; Feb. 21.
- Medicinal preparation, Certain named. Blanding & Blanding. No. 154,230; Apr. 11.
- Medicinal preparation for asthma. Bitzer & Rommel. No. 155,622; June 6.
- Medicinal preparation for catarrh, etc. Dunlap Medicine Co. No. 157,492; Aug. 8.
- Medicinal preparation for certain purposes. W. H. Richardson. No. 150,537; Jan. 3.
- Medicinal preparation for certain uses. Blanding & Blanding, Inc. Nos. 151,679-80; Feb. 14.
- Medicinal preparation for certain uses. A. C. Mallory. No. 150,463; Jan. 3.
- Medicinal preparation for certain uses. J. H. Margosian. No. 150,466; Jan. 3.
- Medicinal preparation for cholera, etc., in fowls. M. H. Andersen. No. 156,163; June 20.
- Medicinal preparation for colds, la grippe, headaches, etc. L. Greengard. No. 151,494; Feb. 7.
- Medicinal preparation for coughs, colds, la grippe and fever. Japamer Pharmacal Co. No. 150,680; Jan. 3.
- Medicinal preparation for cows, Certain. Dairy Association Co. No. 157,486; Aug. 8.
- Medicinal preparation for diabetes. A. C. Douropoulos. No. 154,013; Apr. 4.
- Medicinal preparation for diseases of the liver, stomach, or bowels. J. S. Robinson. No. 22,266; renewed Dec. 27, 1922.

Alphabetical list of trade-marks—Continued.

- Medicinal preparation for diseases of women. Martin & Newnom. No. 158,015; Aug. 22.
- Medicinal preparation for eczema and other skin diseases. W. I. Russell. No. 159,753; Oct. 3.
- Medicinal preparation for epilepsy. A. Stevens. No. 155,589; May 30.
- Medicinal preparation for female disorders. R. H. Estabrook. No. 153,713; Mar. 28.
- Medicinal preparation for glandular insufficiency. J. A. Piuma. No. 156,395; June 20.
- Medicinal preparation for gonorrhea, etc. Riedel & Co. No. 156,044; June 13.
- Medicinal preparation for hay fever. J. A. Arnold. No. 151,423; Feb. 7.
- Medicinal preparation for inflammation. C. D. Craig. No. 161,105; Nov. 7.
- Medicinal preparation for intestinal toxemia. International Consolidated Chemical Corporation. Nos. 154,800-01; Apr. 11.
- Medicinal preparation for malaria. A. Sala. No. 153,844; Mar. 28.
- Medicinal preparation for malassimilation and nutritional disorders. International Consolidated Chemical Corporation. No. 161,171; Nov. 7.
- Medicinal preparation for poultry. Vaycide Chemical Corporation. Nos. 151,619-21; Feb. 7.
- Medicinal preparation for poultry to stimulate egg laying. Vaycide Chemical Corporation. No. 151,618; Feb. 7.
- Medicinal preparation for pyorrhea, etc. Wm. W. Hoagland, D. D. S. No. 150,848; Jan. 10.
- Medicinal preparation for relief of colds, la grippe, etc. Beach Chemical Company. No. 160,834; Oct. 31.
- Medicinal preparation for removing corns, calouses, and warts. J. M. Jacobs. No. 150,419; Jan. 3.
- Medicinal preparation for rheumatism. M. Nelson. No. 150,496; Jan. 3.
- Medicinal preparation for rheumatism, etc. Delson Chemical Co. No. 158,205; Aug. 29.
- Medicinal preparation for rheumatism, gout, lame back, lumbago, and kidney and bladder disease. Albert R. Flanigan. No. 153,926; Mar. 28.
- Medicinal preparation for skin diseases, rheumatism, etc. P. J. Dervin. No. 155,404; May 30.
- Medicinal preparation for stomach and bowel disorders. J. E. Brady. No. 151,088; Jan. 24.
- Medicinal preparation for stomach, liver, and kidney troubles. I. Randazzo. No. 151,577; Feb. 7.
- Medicinal preparation for the reduction of superfluous flesh. Minus Pharmacal Co. No. 159,953; Oct. 10.
- Medicinal preparation for the relief of dysentery. F. Primeaux. No. 160,943; Oct. 31.
- Medicinal preparation for the relief of headache, etc. R. H. Hunstock & Co. No. 153,758; Mar. 28.
- Medicinal preparation for the relief of pain. D. A. Jones & Co. No. 160,781; Oct. 24.
- Medicinal preparation for the treatment of boils, pimples, abscesses, etc. J. F. Ruckel. No. 159,752; Oct. 3.
- Medicinal preparation for the treatment of certain diseases. Shepard's Pharmaceutical Company. No. 158,086; Aug. 22.
- Medicinal preparation for the treatment of colds, influenza, and la grippe. W. E. Shuit, Incorporated. No. 158,299; Aug. 29.
- Medicinal preparation for the treatment of horses and farm stock. Certain. C. H. Mohr and Company. No. 152,234; Feb. 21.
- Medicinal preparation for the treatment of liver, kidneys, nerves, impure blood, etc. A. K. Johnson. No. 157,991; Aug. 22.
- Medicinal preparation for treating piles. A. E. Burnett. No. 156,193; June 20.
- Medicinal preparation for treatment of certain diseases. A. Erienger. No. 151,468; Feb. 7.
- Medicinal preparation for treatment of gallstones. Schering & Glatz. No. 151,593; Feb. 7.
- Medicinal preparation for the treatment of the nerves stomach, liver, kidneys, etc. A. Arend Drug Co. No. 157,452; Aug. 8.
- Medicinal preparation for treatment of loin disease in cattle. W. Abell. No. 158,875; Sept. 19.
- Medicinal preparation for treatment of nerves, stomach, liver, etc. A. Arend Drug Co. No. 161,045; Nov. 7.
- Medicinal preparation for treatment of the gums and teeth. A. A. Rosenfeld. No. 157,576; Aug. 8.
- Medicinal preparation for use as a heart tonic or stimulant. Eli Lilly & Company. No. 158,211; Aug. 29.
- Medicinal preparation for use as a sedative and hypnotic. Eli Lilly & Company. No. 161,125; Nov. 7.
- Medicinal preparation for use as an aphrodisiac and metabolic stimulant. Eli Lilly & Company. No. 161,124; Nov. 7.
- Medicinal preparation for use in tuberculosis, coughs, colds, etc. A. Schutt. No. 150,558; Jan. 3.
- Medicinal preparation of a sedative character. R. G. Seel. No. 160,964; Oct. 31.
- Medicinal preparation recommended as a pain alleviator. Schering & Glatz, Inc. No. 160,960; Oct. 31.
- Medicinal preparation used for the reduction of inflammation. R. S. Clark. No. 157,897; Aug. 22.
- Medicinal preparation used in the treatment of certain diseases. W. H. Gross. Nos. 160,875-6; Oct. 31.
- Medicinal preparation used in treatment of certain ailments. W. H. Gross. No. 160,877; Oct. 31.
- Medicinal preparation used in treatment of hemorrhoids. Dr. A. C. Haines. No. 157,339; Aug. 1.
- Medicinal preparations. C. Byrd. No. 154,236; Apr. 11.
- Medicinal preparations. Feng Laboratories, Inc. No. 157,497; Aug. 8.
- Medicinal preparations. Knee 4 Medicine Company. No. 157,352; Aug. 1.
- Medicinal preparations. Mrs. M. Liersch. No. 157,355; Aug. 1.
- Medicinal preparations. Trust estate of Adolph C. Meyer, deceased. No. 151,982; Feb. 14.
- Medicinal preparations. Winthrop Chemical Company. No. 158,321; Aug. 29.
- Medicinal preparations. Woman's Mutual Benefit Company. No. 158,323; Aug. 29.
- Medicinal preparations, Certain. S. B. Arwood. No. 150,227; Jan. 3.
- Medicinal preparations, Certain. P. Avallone. No. 160,823; Oct. 31.
- Medicinal preparations, Certain. Bayer Company. No. 155,382; May 30.
- Medicinal preparations, Certain. Bayer Company. Nos. 160,831-3; Oct. 31.
- Medicinal preparations, Certain. W. Bell. No. 155,615; June 6.
- Medicinal preparations, Certain. J. B. Bengue. No. 158,574; Sept. 15.
- Medicinal preparations, Certain. Biozone Syndicate Limited. No. 161,414; Nov. 14.
- Medicinal Preparations, Certain. A. G. Browning. No. 152,126; Feb. 21.
- Medicinal preparations, Certain. C. W. Burgoon. No. 150,270; Jan. 3.
- Medicinal preparations, Certain. A. Desaint. No. 151,114; Jan. 24.
- Medicinal preparations, Certain. J. M. Dressler. No. 156,233; June 20.
- Medicinal preparations, Certain. Dry Oil Products, Ltd. No. 150,339; Jan. 3.
- Medicinal preparations, Certain. A. O. McMichael. No. 157,302; Aug. 1.
- Medicinal preparations, Certain. Mutual Pharmacal Company. No. 152,893; Mar. 7.
- Medicinal preparations, Certain. National Consolidated Drug Co. No. 158,037; Aug. 22.
- Medicinal preparations, Certain. National Medico-Specialties Laboratories. No. 155,493; May 30.
- Medicinal preparations, Certain. Prontic Druggists, Inc. No. 156,396; June 20.
- Medicinal preparations, Certain. Purabrand Products Co. No. 157,567; Aug. 8.
- Medicinal preparations, Certain. W. Roberts. No. 151,583; Feb. 7.
- Medicinal preparations, Certain. M. S. Snow. No. 156,926; July 18.
- Medicinal preparations, Certain. H. C. Storick. No. 157,391; Aug. 1.
- Medicinal preparations, Certain. Sulpreme Chemical Co. No. 157,392; Aug. 1.
- Medicinal preparations, Certain. F. M. Toohy Drug Co. No. 160,985; Oct. 31.
- Medicinal preparations, Certain. United Retail Chemists Corporation. No. 157,397; Aug. 1.
- Medicinal preparations, Certain. F. A. Waldkoenig. No. 160,717; Oct. 24.
- Medicinal preparations, Certain. E. Wolfram. No. 152,301; Feb. 21.
- Medicinal preparations, Certain. C. Zuray. No. 158,874; Sept. 12.
- Medicinal preparations, Certain named. Blue Cross Chemical Co. No. 154,231; Apr. 11.
- Medicinal preparations for certain diseases. Lingner-Werke Aktiengesellschaft. No. 160,905; Oct. 31.
- Medicinal preparations for coughs, colds, etc. Dr. Bell Medicine Company. No. 162,676; Dec. 26.
- Medicinal preparations for diseases of the bladder and the gall. E. Bilhuber, Incorporated. No. 156,182; June 20.
- Medicinal preparations for the bladder and gall. E. Bilhuber, Incorporated. No. 161,064; Nov. 7.
- Medicinal preparations for the treatment of diseases of the female organs. J. Brockhoff. No. 151,687; Feb. 14.
- Medicinal preparations of calcium ortho-benzyl-oxybenzoate. Swan & Myers Co. No. 155,540; May 30.
- Medicinal remedy for bowel trouble in pigs and calves. Roupine Manufacturing Co. No. 161,718; Nov. 14.
- Medicinal tablet for prevention of attacks of epilepsy. J. F. L. Zingre. No. 152,014; Feb. 14.
- Medicinal tablets. M. A. Cohen. No. 150,306; Jan. 3.
- Medicinal tablets for colds. T. W. Penny. No. 150,517; Jan. 3.
- Medicinal tablets to relieve headache, neuralgia, migraine, etc. M. A. Cohen. No. 150,304; Jan. 3.
- Medicinal tonic. B. J. Bruns. No. 150,269; Jan. 3.
- Medicinal tonic for rheumatism. Sharp & Dohme. No. 158,085; Aug. 22.
- Medicinal tonic, General. Hartman Specialty Company. No. 155,331; May 23.
- Medicinal tonics. Dr. Jones Medicine Company. No. 153,769; Mar. 28.
- Medicinal vitamin products. Northwestern Yeast Company. No. 160,258; Oct. 17.
- Medicine. Allen J. Dash Company. No. 153,692; Mar. 28.

- Medicine. Frederick Stearns & Company. No. 152,182; Feb. 21.
- Medicine. H. F. Horman. No. 153,754; Mar. 28.
- Medicine. William R. Warner & Co., Inc. No. 151,058; Jan. 10.
- Medicine and nerve tonic, Kidney. J. H. Forehand. No. 156,247; June 20.
- Medicine and pharmaceutical preparation. R. B. Riccius. No. 154,137; Apr. 4.
- Medicine. Antiseptic. F. W. Schoppenhorst. No. 155,821; June 6.
- Medicine (a yeast laxative). A. M. Davis. No. 156,226; June 20.
- Medicine. Blood and asthma. Indian Remedy Company. No. 158,233; Aug. 29.
- Medicine. Blood-purifying. A. Satr. No. 151,936; Feb. 14.
- Medicine. Certain. J. C. Schmidt. No. 152,266; Feb. 21.
- Medicine composed of various liquids and vegetable products. S. Pembroke. No. 155,795; June 6.
- Medicine. Emollient antiseptic. Eucatal Co. No. 150,351; Jan. 3.
- Medicine for asthma. M. Rutkay. No. 151,588; Feb. 7.
- Medicine for asthma. Templeton's Limited. No. 156,067; June 13.
- Medicine for asthma, croup, etc. E. McDonnell. No. 158,487; Sept. 5.
- Medicine for blood poisoning or impoverished blood. J. M. Hilles. No. 157,976; Aug. 22.
- Medicine for catarrhal conditions. Crown Remedy Company. No. 152,143; Feb. 21.
- Medicine for certain named purposes. J. W. Sawyer. No. 154,147; Apr. 4.
- Medicine for certain purposes. O. G. Fegley. No. 155,324; May 23.
- Medicine for colds, gripe, influenza, etc. Organ-Iron Company. No. 152,249; Feb. 21.
- Medicine for constipation and liver complaint. J. W. Rogers. No. 154,767; May 2.
- Medicine for consumption, stomach poisoning, and for a general medicinal tonic. J. P. Biedka. No. 158,182; Aug. 29.
- Medicine for coughs. E. A. Robinson. No. 150,540; Jan. 3.
- Medicine for coughs and colds. T. J. Cuzalina. No. 161,108; Nov. 7.
- Medicine for coughs, bronchitis, etc. Bay State Drug Co. No. 157,306; Aug. 1.
- Medicine for cows. Germicide Company, The. No. 150,375; Jan. 3.
- Medicine for diseases of the lungs. Tremont Manufacturing Company. No. 155,295; May 23.
- Medicine for eyes. V. Panicucci. No. 150,511; Jan. 3.
- Medicine for general tonic purposes, especially rheumatism. J. D'Anna. No. 158,420; Sept. 5.
- Medicine for goiter. A. Plotz. No. 155,798; June 6.
- Medicine for kidney, liver, etc., troubles. F. A. Thompson & Company. No. 157,396; Aug. 1.
- Medicine for menorrhagia, metrorrhagia, backache and menstrual fever. A. Khoury. No. 159,005; Sept. 19.
- Medicine for pyorrhea. Wyo-Col Chemical Company. No. 153,910; Mar. 28.
- Medicine for relief of pain after an extraction. S. Abowitch. No. 156,153; June 20.
- Medicine for rheumatism. A. Karaffa. No. 161,184; Nov. 7.
- Medicine for rheumatism. L. Thornton. No. 151,607; Feb. 7.
- Medicine for rheumatism and arthritis. A. Sabatella. No. 150,552; Jan. 3.
- Medicine for skin troubles. H. Uhry. No. 159,775; Oct. 3.
- Medicine for Spanish flu. A. Dellape. No. 153,694; Mar. 28.
- Medicine for stomach troubles. W. H. Enell. No. 161,128; Nov. 7.
- Medicine for the throat and lungs. G. B. Raezer. No. 155,510; May 30.
- Medicine for the treatment of asthma, hay fever, etc. H. H. Wilder. No. 151,640; Feb. 7.
- Medicine for the treatment of diseases of the blood, nerves, etc., and a hair-cream. J. B. Khan. No. 150,432; Jan. 3.
- Medicine for the treatment of hay fever and colds. W. W. Baird. No. 157,862; Aug. 22.
- Medicine for the treatment of headache, neuralgia, etc. C. G. Metcalfe. No. 158,020; Aug. 22.
- Medicine for the treatment of rheumatism, etc. M. & M. Compounding Company. No. 151,297; Jan. 24.
- Medicine for the treatment of the stomach, liver, and intestines. A. H. Swinburne. No. 158,549; Sept. 5.
- Medicine for the treatment of whooping cough. W. R. Spence. No. 155,839; June 6.
- Medicine for treatment of cancer. W. H. Havens. No. 156,289; June 20.
- Medicine for treatment of lumbago. Dr. H. G. Gibson. No. 161,695; Nov. 14.
- Medicine for use as a blood purifier. S. M. Booth. No. 151,434; Feb. 7.
- Medicine for use in the treatment of headaches, etc. J. L. Mackey. No. 151,539; Feb. 7.
- Medicine for venereal diseases and catarrh of the mucous membrane. Parke, Davis & Company. No. 161,254; Nov. 7.
- Medicine. Headache. Stimule Company Inc. No. 160,026; Oct. 10.
- Medicine. Indigestion and stomach. J. J. Wiley. No. 151,641; Feb. 7.
- Medicine in tablet form. William R. Warner & Co. No. 155,558; May 30.
- Medicine. Kidney and liver. C. Lyle. No. 153,784; Mar. 28.
- Medicine. Laxative. Dr. Miles Grand Dispensary. No. 161,233; Nov. 7.
- Medicine. Laxative. Stimule Company. No. 160,027; Oct. 10.
- Medicine. Liver. C. D. Abshear. No. 157,843; Aug. 22.
- Medicine. Rheumatism. Anti-Uric Company. No. 153,574; Mar. 21.
- Medicine to produce twilight sleep. Society of Chemical Industry in Basle. No. 155,836; June 6.
- Medicine used against cancer, etc., and as a blood purifier. W. Faupel. No. 154,930; May 16.
- Medicine used as a treatment for lung and bronchial affections. Lloyd Drug Company. No. 157,356; Aug. 1.
- Medicine used for certain ailments. J. P. McCallum. No. 151,536; Feb. 7.
- Medicine used in treatment of piles, burns, and itch. N. W. Jordan. No. 161,180; Nov. 7.
- Medicine used in the treatment of gonorrhea. C. Gekas. No. 150,374; Jan. 3.
- Medicine used in the treatment of pneumonia. S. Ruocco. No. 155,811; June 6.
- Medicine used in the treatment of rheumatism, swollen joints, etc. J. N. Brown & Son. No. 150,266; Jan. 3.
- Medicines. R. Johnson. No. 153,768; Mar. 28.
- Medicines. O'B-Special Trust. No. 161,247; Nov. 7.
- Medicines and pharmaceutical preparations. Boericke & Runyon Co. No. 151,433; Feb. 7.
- Medicines and pharmaceutical preparations for rheumatism, gout, etc. W. Schapira. No. 156,576; June 27.
- Medicines for certain diseases. R. W. Brown. No. 157,877; Aug. 22.
- Medicines for certain purposes. G. J. McCabe. No. 159,423; Sept. 26.
- Medicines for certain uses. E. E. Leeper. No. 150,658; Jan. 3.
- Medicines for colds and analogous diseases. Edgar Chemical Company. No. 158,209; Aug. 29.
- Medicines for heart affections. Laboratoire Nativelle. No. 152,211; Feb. 21.
- Medicines for medicinal treatment of sore gums, toothache, etc. J. E. Marriott. No. 158,013; Aug. 22.
- Medicines for rheumatism and blood diseases. J. C. Freter. No. 153,725; Mar. 28.
- Medicines for stock, horses, dogs, and poultry. Certain. Dr. Smith's Stock-Vigor Remedies Company. No. 158,098; Aug. 22.
- Medicines for the cure of blood diseases. G. L. Fowler. No. 22,114; renewed Dec. 6, 1922.
- Medicines for the treatment of cancer, External. D. B. O'Neal. No. 150,503; Jan. 3.
- Medicines for the treatment of colds, coughs, and la grippe. Linden Pharmacal Company. No. 161,207; Nov. 7.
- Medicines for the treatment of tuberculosis. R. Milton Lewis Company. No. 158,248; Aug. 29.
- Medicines for treatment of certain named ailments. J. S. King. No. 150,425; Jan. 3.
- Medicines for use in the treatment of rheumatism, neuralgia, etc. Allen and Clay. No. 161,039; Nov. 7.
- Medicines for venereal diseases. Docteur H. Ferré & Cie. No. 155,960; June 13.
- Medicines. Hog. Swiantox Company. No. 150,617; Jan. 3.
- Medicines. Proprietary. F. J. Kozlowski. No. 158,474; Sept. 5.
- Medicines used as a general tonic. S. M. Marcus. No. 155,576; May 30.
- Medicines used as a tonic, etc. American Drug Company. No. 150,215; Jan. 3.
- Memorandum devices. A. M. Watterson. No. 156,587; July 4.
- Men's wear and haberdashery, shirts, pyjamas, neckties, scarfs, etc. Mill-Rich Service. No. 157,151; July 25.
- Menthol cough-drops. W. H. Luden. No. 150,455; Jan. 3.
- Mentholated cotton. J. Schwarzbart. No. 161,617; Nov. 14.
- Metal. Articles plated with precious. G. S. Ward. No. 157,440; Aug. 1.
- Metal. Babbitt. H. Murdoch & Company. No. 162,168; Dec. 5.
- Metal cleansers and polishes. Long Island Polish Co. No. 162,294; Dec. 12.
- Metal (commercial) rod. Mueller Metals Company. Nos. 152,464-5; Feb. 28.
- Metal cutting and forming tools. Certain. Darwin & Milner. No. 151,459; Feb. 7.
- Metal kitchen and toilet goods and hardware. Wickwire Spencer Steel Corporation. No. 161,857; Nov. 21.
- Metal. Molds for shaping molten. J. R. Wood. No. 152,078; Mar. 7.
- Metal plates and sheets, Ferrous. Follansbee Brothers Company. Nos. 152,585-6; Feb. 28.
- Metal plates and sheets, Ferrous. Follansbee Brothers Company. No. 154,936; May 16.
- Metal plates and sheets, Ferrous. Follansbee Brothers Company. Nos. 158,343-4; Aug. 29.

Alphabetical list of trade-marks—Continued.

- Metal plates and sheets, Ferrous-. Follansbee Brothers Company. No. 161,772; Nov. 24.
- Metal polish. American Metal Polish Co. No. 150,710; Jan. 10.
- Metal polish. B. Heller & Co. No. 155,704; June 6.
- Metal polish, oil soap, etc. R. M. Hollingshead Co. No. 155,715; June 6.
- Metal precipitants, Noble-. American Chemical Works. No. 157,849; Aug. 22.
- Metal preservatives. F. L. Gerke. No. 154,032; Apr. 4.
- Metal products consisting of ferrous and nonferrous castings. H. Kramer & Co. No. 151,527; Feb. 7.
- Metal products consisting of funnels, strainers, commodos, foot tubs, etc. Atlantic Stamping Company. No. 155,200; May 23.
- Metal receptacles and containers, Certain. Wheeling Corrugating Company. No. 150,645; Jan. 3.
- Metal rods, bars, stirrups, etc., for reinforcing concrete. Corrugated Bar Company. No. 150,312; Jan. 3.
- Metal sheets, solder, Babbitt metal, Ferrous and nonferrous. Mercantile Oversea Corporation. No. 153,796; Mar. 28.
- Metal sheets, wire, tin plate, and tool and special steels, Certain. Brooklyn Galvanizing & Mfg. Co. No. 150,757; Jan. 10.
- Metal, solder, machinery parts made of castings, and rails, Antifiction. Gomez & Sloan, Inc. No. 161,779; Nov. 21.
- Metal spring clips, name frames, and certain holders to be secured to supporting surfaces. P. F. Denning. No. 151,382; Jan. 31.
- Metal tokens or saving-checks. S. P. Foltz. No. 151,763; Feb. 14.
- Metal ware and metal culinary utensils. Reliance Metal Spinning & Stamping Co. No. 159,492; Sept. 26.
- Metal ware, Certain precious-. Suckling Limited. No. 151,604; Feb. 7.
- Metal ware, Precious-. Rogers, Leint & Bowlen Company. No. 161,601; Nov. 14.
- Metal-welding electrodes and metal parts for resistances, reactances, etc. Quasi-Arc Company. No. 153,830; Mar. 28.
- Metal wire. Macwhyte Company. No. 156,339; June 20.
- Metal-working and other machinery, Certain. W. K. Stamets. No. 153,006; Mar. 7.
- Metal-working-machine tools. Bullard Machine Tool Company. No. 153,675; Mar. 28.
- Metal-working machinery and production tools. Carroll Engineering Co. No. 154,898; May 16.
- Metal-working machinery and tools, and parts thereof. Hill, Clarke & Co. of Chicago. No. 153,749; Mar. 28.
- Metal-working small tools. Cleveland Twist Drill Company. No. 157,027; July 25.
- Metal-working tools, Certain. New Britain Tool and Manufacturing Company. No. 152,468; Feb. 28.
- Metal-working tools, taps, dies, reamers, etc. Societe des Usines Curial. No. 152,507; Feb. 28.
- Metals and alloys and products thereof. Fiat. No. 162,072; Dec. 5.
- Metals and alloys and products made from same, nonferrous. American Brass Company. No. 157,446; Aug. 8.
- Metals and alloys and products made therefrom, Certain nonferrous. American Brass Company. No. 160,361; Oct. 24.
- Metals and alloys, Ferrous and nonferrous. Electro Metallurgical Company. No. 159,347; Sept. 26.
- Metals and alloys, Nonferrous. Great Western Smelting & Refining Company. No. 152,412; Feb. 28.
- Metals, Certain nonferrous. V. Henning & Sons. No. 157,518; Aug. 8.
- Metals, Nonferrous. Bridgeport Brass Company. No. 160,401; Oct. 24.
- Metals, Preparation for preserving the surface of. Izen Company. No. 153,764; Mar. 28.
- Metals, Sheet. American Nickeloid Company. No. 161,736; Nov. 21.
- Meters for automatically recording the length of telephone conversations. Telechronometer Company of America. No. 159,552; Sept. 26.
- Meters, water and oil gauges, Flow-. Penberthy Injector Company. No. 152,939; Mar. 7.
- Mica. Richmond Mica Company. No. 151,304; Jan. 24.
- Middies, smocks, skirts, etc. Princess Garment Company. The. No. 151,214; Jan. 24.
- Middy blouses. Kramer, Sauber & Kesting Incorporated. No. 155,739; June 6.
- Middy blouses. Perfect Garment Co. No. 160,267; Oct. 17.
- Middy blouses worn by children and girls, and sailors' shirts. Benson Corporation. No. 154,430; Apr. 11.
- Milk and butter, Condensed. Kent Storage Company. No. 161,519; Nov. 14.
- Milk and vegetable fat, Compound of evaporated skim. Hebe Company. No. 152,817; Mar. 7.
- Milk beverages. Ohio & Pittsburgh Milk Company. No. 154,647; Apr. 18.
- Milk, Bottled. W. L. Rohrer. No. 160,002; Oct. 10.
- Milk, cream, butter, and cheese. New York Condensed Milk Company. No. 22,536; renewed Feb. 28, 1923.
- Milk, butter, ice cream, etc., Sweet, powdered, and condensed. Nissley Creamery Company. No. 159,462; Sept. 26.
- Milk, buttermilk, cream, butter. City Creamery Co. No. 151,712; Feb. 14.
- Milk, buttermilk, ice-cream, etc. Nissley Creamery Company. No. 150,500; Jan. 3.
- Milk, cheese, eggs-. Behrens Dairy Products Company. No. 152,346; Feb. 28.
- Milk cocoa, cocoa, milk chocolate, chocolate, unsweetened chocolate. Stollwerck Brothers Inc. No. 153,325; Mar. 14.
- Milk, cocoa, sugar, and vanilla, Concentrated preparation of. Galloway-West Company. No. 156,570; June 27.
- Milk, Condensed. L. M. Abrahams. Nos. 154,465-6; Apr. 18.
- Milk, Condensed. Juan & McCormack. No. 152,031; Feb. 14.
- Milk, Condensed and evaporated. Burt Olney Canning Company. No. 157,019; July 25.
- Milk, Condensed and evaporated. Holland Food Corporation. No. 153,751; Mar. 28.
- Milk, Condensed and evaporated. Rogers Milk Corporation. No. 160,958; Oct. 31.
- Milk, etc., Malted. C. A. Owen. No. 150,507; Jan. 3.
- Milk, Evaporated. American Milk Products Corporation. Nos. 157,634-5; Aug. 15.
- Milk, Evaporated. Borden Company. No. 158,901; Sept. 19.
- Milk, Evaporated. Crown Margarin Company. No. 157,660; Aug. 15.
- Milk, Evaporated. Galloway-West Company. No. 151,769; Feb. 14.
- Milk, Evaporated and condensed. Sheffield Condensed Milk Co. No. 152,500; Feb. 28.
- Milk, malt sirup, and flaked skim milk, Malted. Adolph Coors B. & M. Company. No. 154,521; Apr. 18.
- Milk, malt sirup, etc., Malted. Adolph Coors B. & M. No. 152,558; Feb. 28.
- Milk, Malted. C. Manas. No. 154,773; May 2.
- Milk powder, Whole. G. Secord. No. 162,889; Dec. 26.
- Milk, Powdered. Merrell-Soule Company. No. 157,714; Aug. 15.
- Milk, Preparation for coagulating. Chr. Hansen's Laboratory Inc. No. 152,719; Mar. 7.
- Milk, Preparations for coagulating or curdling. Chr. Hansen's Laboratory, Inc. No. 156,854; July 18.
- Milk products. De Danske Mejeriforeningers Maelke-Export. No. 156,228; June 20.
- Milk products consisting of skimmed milk and vegetable fat. Indiana Condensed Milk Company. No. 159,383; Sept. 26.
- Milk put up in sealed containers, Sterilized. National Dairy Co. No. 156,575; June 27.
- Milk, Sour. Dr. Spieker's Bulgarian Yoghurt Corporation. No. 159,533; Sept. 26.
- Milk, Unsweetened evaporated. American Milk Products Corporation. No. 150,219; Jan. 3.
- Milk, Unsweetened evaporated. American Milk Products Corporation. No. 151,069; Jan. 24.
- Milk, Unsweetened evaporated. American Milk Products Corporation. No. 151,663; Feb. 14.
- Milk, Unsweetened evaporated. Crescent Company. No. 159,320; Sept. 26.
- Milk, Unsweetened evaporated. Waddington Condensed Milk Co. No. 150,638; Jan. 3.
- Milk warmers, egg cookers, switches, and heaters for fireless cookers, Electric. Hanksraft Company. No. 162,258; Dec. 12.
- Milking machines and parts thereof. Sharples Milker Co. No. 162,651; Dec. 19.
- Millinery and ladies' ready-to-wear garments. M. Robins. No. 157,191; July 25.
- Millinery and other headgear. Millinteria, Inc. No. 161,235; Nov. 7.
- Milling cutters, reamers, hobs, etc. National Tool Company. No. 155,024; May 16.
- Milling cutters, reamers, counterbores, etc. National Tool Company. No. 158,039; Aug. 22.
- Milling reamers and cutters. Detroit Twist Drill Company. No. 157,489; Aug. 8.
- Mills, Ball and pebble. Hardinge Company. No. 155,153; May 16.
- Mineral water. F. T. Slagle. No. 154,162; Apr. 4.
- Mineral waters and certain soft drinks. New York Mineral Water Company. No. 155,268; May 23.
- Minnows and fishing lines, Artificial. Enterprise Manufacturing Company. No. 161,130; Nov. 7.
- Mirrors and picture frames, Hand. Newark Tortoise Shell Novelty Co. No. 150,497; Jan. 3.
- Mirrors and picture frames, Hand. Newark Tortoise Shell Novelty Co. No. 162,325; Dec. 12.
- Mirrors for vehicles, Rear-view. Automotive Accessories, Inc. No. 155,308; May 23.
- Mirrors, Hand. E. I. du Pont de Nemours & Company. Nos. 153,585-6; Mar. 21.
- Mirrors, Rear-view. Wm. R. Johnston Mfg. Co. No. 153,215; Mar. 14.
- Mirrors, Rear-view. Liberty Mirror Works. No. 151,844; Feb. 14.
- Mirrors, Toilet. Alfred Bornstein. No. 153,918; Mar. 28.
- Mitten, Bath. C. Neugebauer. No. 155,494; May 30.
- Mixers, Electrical drink. Magnetic Drink Mixer Company. No. 161,219; Nov. 7.
- Mixing machinery, rock and hammer drills, etc. Ingersoll-Rand Company. No. 150,556; Jan. 10.

Alphabetical list of trade-marks—Continued.

- Mixing slabs, mortars, and pestles, mercury gages, and certain mixing flasks and shade guides. I. D. Caulk Company, The. No. 153,922; Mar. 28.
- Mixture for treatment of pneumonia, influenza, etc. J. C. Raven. No. 155,806; June 6.
- Moccasins. G. H. Bass & Company. No. 156,998; July 25.
- Moccasins. Barker Shoe Company. No. 154,750; Apr. 18.
- Molasses. Boston Molasses Company. No. 160,398; Oct. 24.
- Molasses. Boston Molasses Company. No. 161,752; Nov. 21.
- Molasses. Dunbar Molasses & Syrup Co. No. 156,234; June 20.
- Molasses. S. Nagano. No. 152,075; Feb. 14.
- Molasses. D. B. Scully Syrup Company. No. 156,750; July 11.
- Molasses, mustard, vinegar, cereals, etc. B. A. Railton Company. No. 162,870; Dec. 26.
- Molding for upholstering. George R. Carter Company. No. 151,705; Feb. 14.
- Molding machines. Foundry. John MacDonald & Son Limited. No. 161,962; Nov. 28.
- Moldings or casings, Certain powders for making. American Cellulose & Chemical Manufacturing Company. No. 160,362; Oct. 24.
- Mop wringers. Peter Boller Machine Works. No. 153,821; Mar. 28.
- Mop wringers. Van Arnam Manufacturing Company. No. 155,299; May 23.
- Mops. Dry Hand Mop Co. No. 161,358; Nov. 7.
- Mops. Massasoit Manufacturing Company. No. 157,147; July 25.
- Mops. W. C. Palmer. No. 158,358; Aug. 29.
- Mops. W. C. Palmer. Nos. 160,616-18; Oct. 24.
- Mops. W. H. Plunkett. No. 153,942; Mar. 28.
- Mops. Tribble Cordage Mills, Inc. No. 161,986; Nov. 28.
- Mops. Ruben Wood Finishing and Products Co. No. 151,403; Jan. 31.
- Mops. Ruben Wood Finishing and Products Co. No. 154,141; Apr. 4.
- Mops. J. M. Sherwood Manufacturing Corporation. No. 153,852; Mar. 28.
- Mops. Tate Manufacturing Company. No. 153,168; Mar. 14.
- Mops and dusters. Du-All Manufacturing Company. No. 162,496; Dec. 19.
- Mops, brushes, and dusters, Certain. Somerville Brush Company. No. 160,674; Oct. 24.
- Mops, brushes, and dusters, Certain. B. E. Viner. No. 155,551; May 30.
- Mops, brushes, brooms, daubers, dusters. Fuller Brush Company. No. 152,403; Feb. 28.
- Mops, cotton. California Cotton Mills Company. No. 151,697; Feb. 14.
- Mops, dusters, and brushes, Certain. Elwell Brush Company. No. 155,411; May 30.
- Mops, Dusting. Lafayette Brush & Manufacturing Co. No. 160,555; Oct. 24.
- Mordants. Grasser Chemical Company. No. 152,185; Feb. 21.
- Mortar, Mixture for use in making. Cleveland Builders Supply & Brick Company. No. 160,415; Oct. 24.
- Mortise and rim locks, Steel. Société P. & A. Picard. No. 158,303; Aug. 29.
- Mosquito repellent. Audubon Chemical Company. No. 154,222; Apr. 11.
- Moss. Henry Wilhelm Co. No. 154,184; Apr. 4.
- Moth preventive and immunizer. Nyanza Color & Chemical Co. No. 156,378; June 20.
- Motor-bus bodies, special automobile bodies. M. L. Weiner. No. 162,661; Dec. 19.
- Motor cycles. Ner-A-Car Corporation. No. 158,270; Aug. 29.
- Motor cycles, side cars and trailers. Sinclair Millitor Corporation. No. 157,206; July 25.
- Motor spirit. Alcohol Fuel Corporation. No. 161,394; Nov. 14.
- Motor trucks and trailers. Oklahoma Auto Manufacturing Co. No. 150,502; Jan. 3.
- Motors and carburetors. Camden Anchor-Rockland Machine Co. No. 159,302; Sept. 26.
- Motors, Electric fan and fractional horsepower. Dayton Fan and Motor Company. No. 161,012; Oct. 31.
- Motors, generators, and motor-generator units, Electric. Ray-Di-Co. No. 152,363; Mar. 7.
- Mottoes, Snapping. B. Shackman & Co. Nos. 156,958-9; July 18.
- Mottoes, Snapping. B. Shackman & Co. Nos. 159,515-16; Sept. 26.
- Mottoes, Snapping. B. Shackman & Co. Nos. 160,292-3; Oct. 17.
- Mousetraps. Katchall Mouse Trap Manufacturing Co. No. 152,438; Feb. 28.
- Mouthpiece holders for tobacco products. C. P. Rhodes. No. 152,967; Mar. 7.
- Mouth wash. Bowman Drug Co. No. 155,625; June 6.
- Mouth wash. Calenduline Company of California. No. 156,197; June 20.
- Mouth wash. H. Kay. Nos. 154,072-3; Apr. 4.
- Mouth wash. Penetro Chemical Company. No. 151,573; Feb. 7.
- Mouth wash. Zinclorox Chemical Company. No. 158,325; Aug. 29.
- Mouth wash, gargle, or nasal and throat spray. Agol Chemical Company. No. 153,637; Mar. 28.
- Mouth wash, gargler, and nasal spray. R. E. Holbrook. No. 153,594; Mar. 21.
- Mouth wash, hair tonic, and face powder, Antiseptic. I. A. Miller. No. 161,234; Nov. 7.
- Mouth washes, pyorrhea preparations, tooth paste. Painless Parker Dentist. No. 159,981; Oct. 10.
- Mouth washes, tooth powder and paste. H. H. Mentz, D. D. S. No. 158,354; Aug. 29.
- Mowers, Lawn. John Braun & Sons. Nos. 150,750-5; Jan. 10.
- Mowers, Lawn. Dille & McGuire Mfg. Co. No. 150,789; Jan. 10.
- Mowers, Lawn. Dille & McGuire Mfg. Co. No. 154,268; Apr. 11.
- Mowers, Lawn. Charles H. Pugh Limited. No. 153,828; Mar. 28.
- Mowers, Lawn. Southern Electric Steel Company. No. 153,863; Mar. 28.
- Mowing machines. S. P. Townsend. No. 162,919; Dec. 26.
- Mucilage and library paste. G. H. Capen. No. 154,895; May 16.
- Mucilage, paste, glue, and sealing wax. Guild Products Corporation. No. 161,946; Nov. 28.
- Mudler to be inserted in the ear to suppress annoying sounds. F. Pascal. No. 154,362; Apr. 11.
- Mushrooms in oil, fruits and vegetables, cheese, etc. Podesta Import Company. Nos. 162,862-3; Dec. 26.
- Music and musical compositions. Sheet. Waterson, Berlin & Snyder Company. No. 153,559; Mar. 21.
- Music rolls for player pianos, etc., and records for phonographs and the like. Mel-O-Dee Music Company. No. 155,255; May 23.
- Music rolls or sheets, Perforated. Filmusic Company. No. 158,216; Aug. 29.
- Music rolls, Perforated. Aeolian Company. No. 150,702; Jan. 10.
- Music, Sheet. M. Witmark & Sons. No. 162,417; Dec. 12.
- Music stands. Krauth & Benninghofen. No. 150,681; Jan. 3.
- Music wire. Waterbury Company. No. 155,591; May 30.
- Musical compositions, Printed. Shapiro, Bernstein & Co. No. 150,563; Jan. 3.
- Musical compositions, Printed. Shapiro, Bernstein & Co. No. 150,966; Jan. 10.
- Musical compositions, Printed copies of. United Phonograph Stores Inc. No. 152,043; Feb. 14.
- Musical instrument, Mouth wind. Bar Zim Toy Mfg. Co. No. 151,077; Jan. 24.
- Musical-instrument players, Music sheets for. Recordo Player Roll Company. No. 162,348; Dec. 12.
- Musical instruments. Albert Houdlett & Sons. No. 150,852; Jan. 10.
- Musical instruments. Jerome Thibouville-Lamy. Nos. 21,291-2; renewed June 14, 1922.
- Musical instruments and parts thereof. Virzi Bros. No. 151,277; Jan. 24.
- Musical instruments and parts thereof, Certain. J. Schwartz. No. 158,295; Aug. 29.
- Musical instruments and parts thereof, Stringed. E. W. Plate. No. 156,732; July 11.
- Musical instruments and supplies. F. M. Andress. No. 152,663; Mar. 7.
- Musical instruments and supplies, Certain. Ludwig Hupfeld Aktiengesellschaft. No. 158,253; Aug. 29.
- Musical instruments and supplies, Certain. D. L. Whittle Music Company. No. 156,784; July 11.
- Musical instruments, Cases and satchels for. Alfred L. Felsberg & Co. No. 158,663; Sept. 12.
- Musical instruments, Finished strings for stringed. H. A. Weyman & Sons. No. 156,782; July 11.
- Musical instruments, Mouthpieces for. H. L. Jacobs. No. 151,391; Jan. 31.
- Musical instruments, String, wind, and percussion. Vega Company. No. 161,330; Nov. 7.
- Musical instruments, Strings for. Wm. Lewis & Son. No. 162,293; Dec. 12.
- Musical instruments, Wind. S. B. Barnes. No. 162,191; Dec. 12.
- Musical, percussion, and similar instruments, Certain. Ludwig & Ludwig. No. 156,597; July 4.
- Muskmelons. Imperial Valley Vegetable and Melon Growers Association. No. 160,889; Oct. 31.
- Muslin, cambric, etc., in the piece. Marshall Field & Company. No. 159,720; Oct. 3.
- Muslin in the piece. Marshall Field & Company. No. 157,539; Aug. 8.
- Muslins in the piece. Marshall Field & Company. No. 161,550; Nov. 14.
- Muslin piece goods. Marshall Field & Company. No. 155,482; May 30.
- Muslin piece goods. Marshall Field & Company. No. 161,223; Nov. 7.
- Muslins, sheets, pillow cases, Bleached. Cooper, Coate & Casey Dry Goods Co. No. 153,687; Mar. 28.
- Mustard, French dressing, mayonnaise, etc. J. Delpech. No. 152,056; Feb. 14.
- Mustard, peanut butter, vinegar, Prepared. Jackson Company. No. 156,691; July 11.
- Nail files. J. A. Henckels. No. 162,965; Dec. 26.

Alphabetical list of trade-marks—Continued.

- Nail files and buffers, manicuring scissors, cuticle knives. James McCreery & Company. No. 159,026; Sept. 19.
- Nail polish. J. Brueck. No. 150,267; Jan. 3.
- Nail-polish liquid, powder, and cake. Magic Nail Polish Co. No. 158,256; Aug. 29.
- Nail polishers and atomizers. Tuskeloid Company. No. 153,033; Mar. 7.
- Nail polishers and atomizers. Tuskeloid Company. No. 153,034; Mar. 7.
- Nail-pullers. L. F. Grammes & Sons. No. 152,410; Feb. 28.
- Nails. Creo-Dipt Company. No. 161,444; Nov. 14.
- Nails and tacks. Auto-Vehicle Parts Company. No. 157,453; Aug. 8.
- Nails, Horseshoe. Capewell Horse Nail Company. Nos. 157,472-3; Aug. 8.
- Nainsook. Marshall Field & Company. No. 152,317; Feb. 21.
- Nainsooks, poplins, long cloth, and cambrics in the piece. James A. Hearn & Son Inc. No. 156,526; June 27.
- Naphtha, lubricating oils and greases. R. J. Brown Petroleum Company. No. 158,906; Sept. 19.
- Narrow fabrics, Woven and braided. Wm. B. Bliss, jr., & Co. No. 158,617; Sept. 12.
- Nautical speedometers, logs, and distance recorders. Hamilton & Hansell. No. 151,501; Feb. 7.
- Necklaces. Stix, Baer & Fuller Dry Goods Co. No. 161,642; Nov. 14.
- Necklaces, Bead. Mission Bead Company. No. 156,713; July 11.
- Necklaces, Imitation pearl. L. N. Marx. No. 158,257; Aug. 29.
- Neckpieces, collars, muffs, and coats of fur. P. Schlang & Sons. No. 162,454; Dec. 12.
- Neckties. American Dry Goods Company of New York. No. 154,425; Apr. 11.
- Neckties. Baker, Jacobs & Company. No. 161,403; Nov. 14.
- Neckties. T. E. Greaney. No. 162,080; Dec. 5.
- Neckties. M. F. Turilli. No. 160,314; Oct. 17.
- Neckties and scarfs. Levy & Marcus. No. 159,019; Sept. 19.
- Neckties and scarfs. T. A. Pettis Company. No. 159,211; Sept. 19.
- Neckties and scarfs. L. Schiller. No. 161,615; Nov. 14.
- Neckties, Bow. Hewes & Potter. No. 156,878; July 18.
- Neckties, cravats, and scarfs. Franc, Strohmenger & Cowan, Inc. No. 161,727; Nov. 14.
- Neckwear. M. W. Lowenstein & Co. No. 159,023; Sept. 19.
- Neckwear, Ladies'. Richardson Dry Goods Co. No. 150,535; Jan. 3.
- Needles, also toilet pins. B. J. Parsons. No. 151,900; Feb. 14.
- Needles for talking machines and phonograph needles. General Phonograph Corporation. No. 151,386; Jan. 31.
- Needles, Hand sewing. Julius Berbecker & Sons, Inc. Nos. 162,678-9; Dec. 26.
- Needles, Hand sewing. A. J. Hague & Co. Nos. 162,508-9; Dec. 19.
- Needles, Sewing. George Borgfeldt & Co. No. 151,683; Feb. 14.
- Needles, Sewing. Georg Printz & Co. No. 19,196; renewed Mar. 17, 1921.
- Needles, Sewing and embroidering machine. L. Lamertz. No. 152,449; Feb. 28.
- Needles, toilet pins, bodkins, etc. William Hall & Co. No. 150,833; Jan. 10.
- Needlework, Foundation for art. Bernhard Ulmann Co. No. 154,404; Apr. 11.
- Needlework, Foundation material for art. Bernhard Ulmann Co. No. 154,403; Apr. 11.
- Nerves, Devices and apparatus for ascertaining the physical condition of the. W. J. Cameron. No. 162,208; Dec. 12.
- Net goods in the piece, Silk. Alme Baboin & Cie. No. 160,357; Oct. 24.
- Netted and knitted cotton fabrics and cotton cloth. Wm. E. Hooper & Sons Co. No. 150,411; Jan. 3.
- Nets, Face and hair. J. Fleischer. No. 152,063; Feb. 14.
- Newspaper and magazine articles, Nom de plume on. L. A. Krag. No. 159,010; Sept. 19.
- Newspaper articles and circulars issued from time to time. E. Callow. No. 157,650; Aug. 15.
- Newspaper articles, Nom de plume for. Tribune Company. Nos. 151,976-7; Feb. 14.
- Newspaper column. F. P. Adams. No. 157,632; Aug. 15.
- Newspaper column. New York Tribune Inc. No. 159,049; Sept. 19.
- Newspaper column. Tribune Company. No. 153,026; Mar. 7.
- Newspaper column. Tribune Company. No. 153,029; Mar. 7.
- Newspaper, Column of news in its. Times Printing Company of Seattle. No. 162,389; Dec. 12.
- Newspaper-column title. New York Tribune Inc. Nos. 153,500-1; Mar. 21.
- Newspaper column, Title of a. New York Tribune, Inc. No. 159,460; Sept. 26.
- Newspaper, Daily. Passaic Herald Company. No. 162,336; Dec. 12.
- Newspaper section. Evening News Association. No. 157,671; Aug. 15.
- Newspaper section. Journal Company, Incorporated. No. 162,273; Dec. 12.
- Newspaper section. Star Company. Nos. 159,113-14; Sept. 19.
- Newspaper section. Tribune Company. No. 160,695; Oct. 24.
- Newspaper sections, R. Brammer. No. 157,648; Aug. 15.
- Newspaper supplement. Times Printing Company of Seattle. No. 162,388; Dec. 12.
- Newspaper, Weekly. Near East American Publishing Company. No. 155,267; May 23.
- Newspapers. Statesman Printing Company. No. 162,600; Dec. 19.
- Newspapers, Daily (including Sunday). Nevada State Journal Publishing Co. No. 162,565; Dec. 19.
- Nickel polish. Wadsworth-Howland Company. No. 159,144; Sept. 19.
- Night robes and sleeping garments. E. Rosenfeld & Company. No. 160,278; Oct. 17.
- Nippers. M. W. Robinson Co. No. 157,626; Aug. 8.
- Noodles. Chong Jan Company. No. 154,512; Apr. 18.
- Noodles. Tri-Star Noodle Factory. No. 160,986; Oct. 31.
- Noodles, macaroni, and spaghetti. Pfaffmann Egg Noodle Co. No. 162,102; Dec. 5.
- Notions. Gilman B. Smith Company Inc. No. 156,550; June 27.
- Notions and fancy goods, Certain. Diadem Mfg. Co. No. 151,737; Feb. 14.
- Notions, Certain. American Wholesale Corporation (Baltimore Bargain House). No. 153,573; Mar. 21.
- Notions, Certain. Billstein-Feierman Co. No. 158,896; Sept. 19.
- Notions, Certain. James McCreery & Company. No. 159,027; Sept. 19.
- Notions, Certain. National Cloak & Suit Co. No. 155,496; May 30.
- Notions, Certain. V. Vivaudou, Inc. No. 157,786; Aug. 15.
- Notions, Certain. Waldes & Co. No. 155,858; June 6.
- Notions, Certain. Walker Webbing Co. Nos. 155,850-60; June 6.
- Notions, Certain. Walker Webbing Co. Nos. 158,850-3; Sept. 12.
- Notions, Certain named. The Warren Featherbone Company. No. 154,851; May 9.
- Nougat and other candies, Composition for. L. Demartini Supply Co. No. 152,746; Mar. 7.
- Nozzles, Hose. Schlangen Bros. Co. No. 159,508; Sept. 26.
- Numbering machines. American Numbering Machine Company. No. 158,328; Aug. 29.
- Numbering machines. Bates Manufacturing Company. No. 158,174; Aug. 29.
- Nursers. Fraser Tablet Company. No. 154,028; Apr. 4.
- Nursery products. Greening Nursery Co. No. 151,389; Jan. 31.
- Nursery products, Certain. Greening Nursery Co. No. 155,971; June 13.
- Nut bar, Chocolate-covered. W. R. Montague Company. No. 157,718; Aug. 15.
- Nut butter, apple butter, catchup, honey, Compound. C. A. Jean. No. 151,517; Feb. 7.
- Nut-kernel paste. Gasco Specialty Company. No. 158,443; Sept. 5.
- Nuts and nut lunch, Salted. United Fig & Date Co. No. 158,367; Aug. 29.
- Nuts and pop corn. Marston-Greening Company. No. 156,344; June 20.
- Nuts, Chocolate-coated. Lion Specialty Co. No. 162,815; Dec. 26.
- Nuts, figs, dates, and currants. J. D. Antonopoulos. No. 158,170; Aug. 29.
- Nuts, Granulated. National Almond Products Co. Inc. No. 154,759; Apr. 18.
- Nuts, Internally-salted. J. Finn, Jr. No. 156,670; July 11.
- Nuts, Pistachio. Zaloom Brothers. No. 156,945; July 18.
- Nuts, Shelled, raw, roasted, and salted pinon. F. S. Spitz. No. 160,675; Oct. 24.
- Nuts, Sliced. National Almond Products Co. Inc. No. 154,760; Apr. 18.
- Nutrient or tonic beverages. Coca Cola Company. No. 22,406; renewed Jan. 31, 1923.
- Oars, handspikes, and capstan bars. De Grauw, Aymar & Company. No. 154,010; Apr. 4.
- Oats, (for food.) John Thompson & Sons, Ltd. No. 152,284; Feb. 21.
- Oats, wheat, and buckwheat. J. Butler. No. 21,030; renewed Apr. 26, 1922.
- Oats, wheat flakes, farina, Rolled. Northern Flour Mills Company. No. 152,246; Feb. 21.
- Office equipment and furniture, Certain steel. United Alloy Steel Corporation. No. 152,328; Feb. 21.
- Office organ and advertising magazine, Inter-. Monroe Calculating Machine Company. No. 152,036; Feb. 14.
- Oil and grease, Lubricating. Globe Refining Company. No. 158,684; Sept. 12.
- Oil and greases, etc., Motor and auto. L. Blaustein. No. 161,415; Nov. 14.
- Oil and hair restorative, Anointing. N. S. Kitchens. No. 154,765; May 2.
- Oil and ointment, Certain medicinal. A. W. Lowrie. No. 150,454; Jan. 3.

Alphabetical list of trade-marks—Continued.

- Oil and other liquids, Storage receptacles for. St. Louis Pump & Equipment Company. No. 159,645; Sept. 26.
- Oil and preparations of cod-liver oil, Cod-liver. Southall Bros. & Barclay. No. 21,106; renewed May 10, 1922.
- Oil, Antiseptic healing. A. Roesch. No. 160,001; Oct. 10.
- Oil cans. Anthes Force Oil Company. No. 151,314; Jan. 31.
- Oil cans. A. S. Harding. No. 154,287; Apr. 11.
- Oil cans. Penn Oil Company. No. 154,206; Apr. 4.
- Oilcloth, linoleum, etc. Texoleum Company of N. Y. No. 153,328; Mar. 14.
- Oilcloth—viz, wall cloth. T. R. Goodlatte & Sons, Inc. No. 162,765; Dec. 26.
- Oil, Coconut. American Coconut Butter Company. No. 154,471; Apr. 18.
- Oil, Coconut. United Vegetable Oil Refinery, Inc. No. 158,558; Sept. 5.
- Oil, coconut butter, Refined vegetable. American Coconut Butter Company. No. 154,470; Apr. 18.
- Oil, Cod-liver. A/S Gadus. No. 157,810; Aug. 15.
- Oil compound. Bay Bee Oil Co. No. 156,835; July 18.
- Oil compound for the treatment of scalp, etc., Crude. W. H. De St. Cyr. No. 153,695; Mar. 28.
- Oil content of such emulsions, Chemicals used in the treatment of petroleum emulsions to effect the recovery of the valuable. W. S. Barnickel & Co. No. 161,052; Nov. 7.
- Oil, Cooking. J. Aspegren. No. 150,220; Jan. 3.
- Oil, Cottonseed. Huth, Gillespie & Company. No. 162,087; Dec. 5.
- Oil, Crank-case-flushing. Standard Oil Company (Incorporated in New Jersey). No. 162,896; Dec. 26.
- Oil, Engine-lubricating. Continental Supply Company. No. 154,006; Apr. 4.
- Oil engines. Diamond Iron Works. No. 154,917; May 16.
- Oil, Flotation. American Pine Products Corporation. No. 158,376; Sept. 5.
- Oil for intensifying liquid fuel, Combustible. L. C. Kiehle. No. 150,662; Jan. 3.
- Oil for internal-combustion engines. Fuel. H. A. Holgate. No. 154,295; Apr. 11.
- Oil for mops. Gem Hammock & Fly Net Company. No. 152,785; Mar. 7.
- Oil for rheumatism, boils, etc., Healing. J. Stanislawski. No. 159,112; Sept. 19.
- Oil, Gas-engine cylinder. New York Lubricating Oil Company. No. 158,756; Sept. 12.
- Oil-gauges. Acme Belting Company. No. 150,699; Jan. 10.
- Oil gauges. Carter Motor Accessories, Inc. No. 159,307; Sept. 26.
- Oil gauges. J. O. Middleworth. No. 161,818; Nov. 21.
- Oil gauges. Sterling Parts Mfg. Co. No. 157,289; July 25.
- Oil, Hydrogenated vegetable. Haug & Co. No. 154,566; Apr. 18.
- Oil, Illuminating. Consolidated Producers and Refiners Co. No. 153,428; Mar. 21.
- Oil, Linseed. American Linseed Company. No. 162,667; Dec. 26.
- Oil, Long-time-burning. Ohio Valley Refining Company. No. 161,714; Nov. 14.
- Oil, Lubricating. Acme Grease & Oil Manufacturing Co. No. 20,226; renewed Oct. 13, 1921.
- Oil, Lubricating. Barnsdall Refining Company. No. 153,973; Apr. 4.
- Oil, Lubricating. Bengal Company. No. 153,405; Mar. 21.
- Oil, Lubricating. Consumers Service Stations, Consolidated. No. 158,641; Sept. 12.
- Oil, Lubricating. I. F. Esty. No. 161,509; Nov. 14.
- Oil, Lubricating. Gilmore Petroleum Company. Nos. 154,951-2; May 16.
- Oil, Lubricating. Northwestern Petroleum Company. No. 157,350; Jan. 31.
- Oil, Lubricating. Oklahoma Producing and Refining Corporation of America. No. 155,039; May 16.
- Oil, Lubricating. Power-Oil Co. Ltd. No. 155,053; May 16.
- Oil, Lubricating. Sinclair Refining Company. No. 153,631; Mar. 21.
- Oil made from cottonseed, Salad and cooking. Globe Cotton Oil Mills. No. 151,774; Feb. 14.
- Oil, mayonnaise, maple sugar, honey, etc., Olive. Hoffman & Hauck. No. 151,796; Feb. 14.
- Oil-mill machinery. Buckeye Iron and Brass Works. No. 156,637; July 11.
- Oil, Mineral. Standard Oil Company (Incorporated in New Jersey). No. 154,393; Apr. 11.
- Oil, Motor fuel. Benzoline Motor Fuel Co. No. 152,564; Feb. 28.
- Oil, Motor fuel. Lackawanna Steel Company. No. 161,523; Nov. 14.
- Oil of myrbane, benzol, ether, etc. Standard Oil Company. No. 156,430; June 20.
- Oil, Oleo. Consolidated Rendering Co. No. 159,853; Oct. 10.
- Oil, Olive. Bay Bee Oil Co. No. 156,999; July 25.
- Oil, Olive. Bragno & Mustari. No. 158,393; Sept. 5.
- Oil, Olive. G. J. Bulubassis. No. 159,295; Sept. 26.
- Oil, Olive. C. Buonocore & Son. No. 154,434; Apr. 11.
- Oil, Olive. C. Buonocore & Son. No. 156,638; July 11.
- Oil, Olive. C. Candela. No. 162,037; Dec. 5.
- Oil, Olive. Carbonell y Ca. No. 154,508; Apr. 18.
- Oil, Olive. E. Di Bianco. No. 159,331; Sept. 26.
- Oil, Olive. Duran y Cia. No. 158,639; Sept. 12.
- Oil, Olive. Fantis & Cutsogorge. No. 151,471; Feb. 7.
- Oil, Olive. Great Atlantic and Pacific Tea Company. No. 152,801; Mar. 7.
- Oil, Olive. Halpert Mills, Inc. No. 160,515; Oct. 24.
- Oil, Olive. Italy Commercial Co. No. 153,212; Mar. 14.
- Oil, Olive. V. Langmann, Inc. No. 158,247; Aug. 29.
- Oil, Olive. A. Merlino. No. 153,381; Mar. 14.
- Oil, Olive. A. Merlino. No. 153,936; Mar. 28.
- Oil, Olive. A. Merlino. No. 156,539; June 27.
- Oil, Olive. Oleicola Tarragona, S. A. No. 157,165; July 25.
- Oil, Olive. Oriental Products Importing Co. No. 151,896; Feb. 14.
- Oil, Olive. Pallarés Hermanos. No. 152,819; Mar. 7.
- Oil, Olive. J. Rocha Bros. No. 150,541; Jan. 3.
- Oil, Olive. G. Rossano & Bro. No. 157,757; Aug. 15.
- Oil, Olive. G. Sensat, Hijos. No. 153,534; Sept. 5.
- Oil, Olive. Sotomayor, Compania Anonima Comercial. No. 151,955; Feb. 14.
- Oil, Olive. Vignolo-Giacomino Company. No. 162,927; Dec. 26.
- Oil or petroleum, Crude. Noco Petroleum Company. No. 154,112; Apr. 4.
- Oil, Penetrating graphite. Graff-O-Products Co. No. 152,796; Mar. 7.
- Oil preparation for cleansing and polishing metal. F. J. Stearns. No. 162,383; Dec. 12.
- Oil, Refined. Devoy Manufacturing Co. No. 20,770; renewed Feb. 23, 1922.
- Oil rings, Metallic. Du Bois Machine Company. No. 152,580; Feb. 28.
- Oil, Salad. M. Heller. Nos. 155,705-6; June 6.
- Oil, Salad. Van Camp Packing Company, Inc. No. 162,926; Dec. 26.
- Oil, Sewing-machine. Puritan Drug Mfg. Co. No. 161,594; Nov. 14.
- Oil stearin, Cottonseed-. Wyatt Bros. No. 156,973; July 18.
- Oil, tomato sauce, and macaroni, Olive. Italian Supply Co. No. 159,389; Sept. 26.
- Oil used in making cores for castings. Pittsburgh Oil Refining Corporation. No. 162,451; Dec. 12.
- Oil used in treatment of woolen fabrics. American Oil Company. No. 153,645; Mar. 28.
- Oil used upon hogs, Crude. Mason City Oil & Grease Company. No. 152,875; Mar. 7.
- Oil, Vegetable salad. B. Mayer. No. 160,793; Oct. 24.
- Oil-well pulling machinery. Iron King Manufacturing Company. No. 151,514; Feb. 7.
- Oil, White mineral. Standard Oil Company. No. 154,808; May 9.
- Oil, White mineral. Standard Oil Company (Incorporated in New Jersey). No. 161,805; Nov. 7.
- Oil, Wool. U. S. Oil & Supply Co. No. 152,286; Feb. 21.
- Oiled cloth. Standard Textile Products Company. No. 153,009; Mar. 7.
- Oilers, yarn mops, dust cloths, and yarn dust brushes, Floor. Standard Oil Company of New York. No. 158,821; Sept. 12.
- Oils, Alimentary. Minerva, Sociedad Anónima. No. 150,477; Jan. 3.
- Oils, Alimentary. B. B. Vallbona. No. 153,041; Mar. 7.
- Oils and furniture and automobile polish, Floor. Standard Oil Company (Incorporated in New Jersey). No. 155,911; June 6.
- Oils and gasoline, Illuminating. Red "C" Oil Mfg. Co. No. 162,873; Dec. 26.
- Oils and gasoline, Motor. Duncan Oil Company. No. 162,497; Dec. 19.
- Oils and greases. L. Blaustein. No. 159,168; Sept. 19.
- Oils and greases. International Lubricating Co. No. 151,337; Jan. 31.
- Oils and greases. Standard Oil Company (Incorporated in New Jersey). No. 160,349; Oct. 17.
- Oils and greases, Certain. Standard Oil Company, (Incorporated in New Jersey). No. 156,145; June 13.
- Oils and greases, gasoline, etc., Lubricating. National Independent Oil Company. No. 153,262; Mar. 14.
- Oils and greases and gasoline, Lubricating and illuminating. A. V. McConaghy. No. 158,741; Sept. 12.
- Oils and greases, gasoline, Lubricating. Red "C" Oil Manufacturing Co. No. 155,062; May 16.
- Oils and greases, Illuminating and lubricating. R. G. Cunningham Oil Co. No. 162,221; Dec. 12.
- Oils and greases, Illuminating and lubricating. Galena-Signal Oil Co. No. 158,679; Sept. 12.
- Oils and greases, Illuminating and lubricating. Oklahoma Trading Corporation. No. 162,567; Dec. 19.
- Oils and greases, Lubricating. Cadillac Oil Company Inc. No. 159,172; Sept. 19.
- Oils and greases, Lubricating. American Oil Corporation. No. 150,711; Jan. 10.
- Oils and greases, Lubricating. Armor Oil & Chemical Co. No. 150,222; Jan. 3.
- Oils and greases, Lubricating. Associated Oil Company. No. 152,670; Mar. 7.
- Oils and greases, Lubricating. Castolene Lubricating Oil Co. No. 162,701; Dec. 26.
- Oils and greases, Lubricating. C. H. Clark Oil Company. No. 151,100; Jan. 24.

Alphabetical list of trade-marks—Continued.

- Oils and greases, Lubricating. Edco Oil Co. Registered. No. 153,156; Mar. 14.
- Oils and greases, Lubricating. A. W. Harris Oil Co. No. 153,376; Mar. 14.
- Oils and greases, Lubricating. A. W. Harris Oil Company. No. 154,962; May 16.
- Oils and greases, Lubricating. John Sexton and Company. No. 158,535; Sept. 5.
- Oils and greases, Lubricating. Lincoln Motor Company. No. 161,532; Nov. 14.
- Oils and greases, Lubricating. N. I. Malmstrom. No. 151,343; Jan. 31.
- Oils and greases, Lubricating. Mason City Oil & Grease Company. No. 155,010; May 16.
- Oils and Greases, Lubricating. Motor Oil Specialty Co. No. 153,497; Mar. 21.
- Oils and greases, Lubricating. Ohio Grease Co. No. 154,117; Apr. 4.
- Oils and greases, Lubricating. Pennsylvania Lubricating Company. No. 162,576; Dec. 19.
- Oils and greases, Lubricating. Service Oil Refining Company. No. 151,230; Jan. 24.
- Oils and greases, Lubricating. Wadhams Oil Company. No. 161,732; Nov. 14.
- Oils and greases, Mineral. Tulsa Refined Oil Company. No. 155,100; May 16.
- Oils and petroleum asphalts and pitches, Road and roofing. Atlantic Refining Company. No. 152,344; Feb. 28.
- Oils and petroleum lubricating greases, gasoline, and kerosene, Lubricating-. J. F. Campion. No. 152,702; Mar. 7.
- Oils and polishes and paraffine wax for washing purposes, Leather. Standard Oil Company (Incorporated in New Jersey). No. 154,846; May 9.
- Oils and waxes, Certain. Sun Company. No. 153,013; Mar. 7.
- Oils, Burning. Texas Company. No. 150,621; Jan. 3.
- Oils, Certain heating and illuminating. Standard Oil Company. No. 152,078; Feb. 14.
- Oils, Certain heating and illuminating. Standard Oil Company. No. 159,109; Sept. 19.
- Oils, Cylinder. Texas Company. No. 154,165; Apr. 4.
- Oils derived from petroleum, petrolatums, etc., Medicinal. Atlantic Refining Company. No. 153,652; Mar. 28.
- Oils, Edible vegetable. Sam Bruck, Inc. No. 152,363; Feb. 28.
- Oils, Edible vegetable cotton-seed. American Cotton Oil Company. No. 156,608; July 11.
- Oils, Emulsifier of essential. Dr. Charles D. Camp Company. No. 150,279; Jan. 3.
- Oils, Floor. Standard Oil Company (Incorporated in New Jersey). No. 160,350; Oct. 17.
- Oils, Flushing. Union Oil Company of California. No. 158,839; Sept. 12.
- Oils, Food. Display Doughnut Machine Corporation. No. 162,061; Dec. 5.
- Oils for softening and preserving leather. J. H. Baker. No. 152,677; Mar. 7.
- Oils, Fuel. Benzol Gas Corporation. No. 161,682; Nov. 14.
- Oils, gasoline and crude oil, Lubricating. Red Dog Oil Company. No. 158,784; Sept. 12.
- Oils, Gasoline and motor fuel-. Texas Company. No. 153,021; Mar. 7.
- Oils, gasoline, mineral wax, lubricating grease, etc., Lubricating. Tide Water Oil Company. Nos. 151,257-63; Jan. 24.
- Oils, gasoline, mineral wax, lubricating grease, etc., Lubricating. Tide Water Oil Company. No. 151,365; Jan. 31.
- Oils, greases, and waxes. Standard Oil Company (Incorporated in New Jersey). Nos. 156,551-2; June 27.
- Oils, greases, and waxes, Certain. Standard Oil Company (Incorporated in New Jersey). No. 159,765; Oct. 3.
- Oils, Heavy, medium, and light lubricating. Consolidated Producers and Refiners Co. No. 153,429; Mar. 21.
- Oils, Internal-combustion engine and bearing. C. C. Bradt. No. 162,689; Dec. 26.
- Oils, laundry wax, petroleum, disinfectants, and dyes, Medicinal. Standard Oil Company of New York. No. 152,277; Feb. 21.
- Oils, Liquid-fuel. Northwestern Oil Company. No. 155,036; May 16.
- Oils, Lubricating. Associated Oil Company. No. 161,679; Nov. 14.
- Oils, Lubricating. Ayotte Manufacturing Co. No. 152,676; Mar. 7.
- Oils, Lubricating. Ayotte Manufacturing Co. No. 159,604; Sept. 26.
- Oils, Lubricating. G. H. Capen. No. 158,628; Sept. 12.
- Oils, Lubricating. Crescent Oil Company. No. 159,323; Sept. 26.
- Oils, Lubricating. Economy Oil Company. No. 154,017; Apr. 4.
- Oils, Lubricating. Emery Candle Company. No. 151,028; Jan. 10.
- Oils, Lubricating. Emery Candle Company. No. 154,018; Apr. 4.
- Oils, Lubricating. Manufacturers Oil & Grease Co. No. 162,969; Dec. 26.
- Oils, Lubricating. Massachusetts Oil Refining Company. No. 151,191; Jan. 24.
- Oils, Lubricating. Nott-Atwater Co. No. 159,464; Sept. 26.
- Oils, Lubricating. Ohio Grease Co. No. 154,118; Apr. 4.
- Oils, Lubricating. Penn Petroleum and Supply Company. No. 151,208; Jan. 24.
- Oils, Lubricating. Shell Company of California. No. 158,809; Sept. 12.
- Oils, Lubricating. Southern Hardware & Supply Co. No. 161,984; Nov. 28.
- Oils, Lubricating. Standard Oil Company (Incorporated in New Jersey). Nos. 162,371-80; Dec. 12.
- Oils, Lubricating. United Oil Company. No. 155,105; May 16.
- Oils, Lubricating. Wadhams Oil Company. No. 159,570; Sept. 26.
- Oils, Lubricating. Wadhams Oils Company. No. 162,930; Dec. 26.
- Oils, Lubricating. Waverly Oil Works Company. No. 153,050; Mar. 7.
- Oils, Lubricating. F. L. Wilson. No. 159,591; Sept. 26.
- Oils, Lubricating, illuminating, and fuel. W. D. Wilson. No. 161,672; Nov. 14.
- Oils, paints, varnishes, and lacquers, Anticorrosive. Edmund Muller & Mann. No. 20,799; renewed Mar. 1, 1922.
- Oils, Road. Union Oil Company of California. No. 158,838; Sept. 12.
- Oils, shortenings, butterin, etc. Electrox Company. Nos. 150,343-5; Jan. 3.
- Oils, Textile. Pure Oil Company. No. 155,350; May 23.
- Oils, Vegetable and mayonnaise and salad. Strohmeyer & Arpe Company. No. 151,959; Feb. 14.
- Oils with or without medication. De Vilbiss Manufacturing Co. No. 150,332; Jan. 3.
- Oils, Wool, fulling, and scouring. Masury-Young Company. No. 158,016; Aug. 22.
- Oily emulsion of argenti nitras. Dr. F. Garai. No. 151,484; Feb. 7.
- Ointment. Arneth Company. No. 153,650; Mar. 28.
- Ointment. W. D. Davis. No. 155,887; June 6.
- Ointment. Dr. L. O. Green. No. 151,141; Jan. 24.
- Ointment. T. L. Hutton. No. 154,299; Apr. 11.
- Ointment. Mrs. O. Jensen. No. 160,216; Oct. 17.
- Ointment. Menthol Products Company. No. 159,035; Sept. 19.
- Ointment and deodorizer, Medical healing. O. D. Stuart. No. 153,867; Mar. 28.
- Ointment, Antiseptic. H. C. Durar. No. 152,158; Feb. 21.
- Ointment, Antiseptic healing. C. E. Palmer. No. 160,938; Oct. 31.
- Ointment, Certain. R. Flores. No. 152,171; Feb. 21.
- Ointment, Certain. A. Smith. No. 160,971; Oct. 31.
- Ointment, Certain. R. E. White. No. 161,002; Oct. 31.
- Ointment, Croup. A. Middleton. No. 157,363; Aug. 1.
- Ointment, Dandruff. M. Bass. No. 150,726; Jan. 10.
- Ointment, eye and pile salves, Carbolic. Van Vleet-Mansfield Drug Co. No. 158,312; Aug. 29.
- Ointment for aches, pains, boils, colds, etc. Lyndon Chemical Company. No. 154,088; Apr. 4.
- Ointment for boils, infections, etc. Old Ointment Products Co. No. 162,169; Dec. 5.
- Ointment for catarrh, hay fever, sprains, etc. A. M. Stein. No. 158,105; Aug. 22.
- Ointment for colds, croup, etc. J. F. Ketels. No. 161,187; Nov. 7.
- Ointment for corns. P. J. Trevarrow. No. 155,544; May 30.
- Ointment for external use for eczema, boils, etc. Hudson & Company. No. 150,413; Jan. 3.
- Ointment for piles, scalds, etc., Antiseptic. Edward J. Moore Sons, Inc. No. 154,104; Apr. 4.
- Ointment for skin diseases. Christman Ointment Co. No. 150,293; Jan. 3.
- Ointment for skin diseases. Exene Laboratories. No. 158,433; Sept. 5.
- Ointment for sprains, etc. E. Van Boskirk. No. 158,132; Aug. 22.
- Ointment for sunburn, tan, etc. S. Magland. No. 151,540; Feb. 7.
- Ointment for sweaty and fetid feet and arms. F. Orr. No. 160,262; Oct. 17.
- Ointment for the skin. J. J. Moore. No. 154,105; Apr. 4.
- Ointment for the treatment of certain named diseases. G. Laabs. No. 158,244; Aug. 29.
- Ointment for the treatment of piles. E. E. Barden. No. 162,949; Dec. 26.
- Ointment for the treatment of rheumatism and neuralgic pain. W. D. Davis. No. 158,421; Sept. 5.
- Ointment for treating the scalp. A. G. Gomillion. No. 152,184; Feb. 21.
- Ointment for treatment of burns, scalds, etc. L. Vermeulen. No. 161,655; Nov. 14.
- Ointment for treatment of certain ailments. E. P. Plangon. No. 151,575; Feb. 7.
- Ointment for treatment of eczema. F. Seligmann. No. 161,292; Nov. 7.
- Ointment for treatment of eczema and ulcers. R. L. Pleasant. No. 161,264; Nov. 7.
- Ointment having medicinal properties. D. A. Flood. No. 150,361; Jan. 3.
- Ointment, Healing. Crown Remedy Company. No. 152,146; Feb. 21.

Alphabetical list of trade-marks—Continued.

- Ointment, Medicinal. E. J. Dreisbach. No. 157,929; Aug. 22.
- Ointment, Medicinal. McLeod & Niesz. No. 160,911; Oct. 31.
- Ointment or salve for sores, burns, itch. C. C. Ralstin. No. 150,530; Jan. 3.
- Ointment or salve, Medicated healing. Greenbaum Company. No. 161,149; Nov. 7.
- Ointment, Prophylactic. H. Planter & Son. Nos. 154,365-6; Apr. 11.
- Ointment remedies for dandruff. G. J. Benavides. No. 157,458; Aug. 8.
- Ointment, Skin. Eysers Drugs & Chemical Co. No. 154,929; May 16.
- Ointments. F. A. Maselli. No. 161,712; Nov. 14.
- Ointments, Tubular containers for medicinal. H. Planter & Son. No. 151,355; Jan. 31.
- Oleomargarine. W. J. Haerberlein. No. 159,374; Sept. 26.
- Oleomargarine. Hammond Standish & Co. No. 159,366; Sept. 26.
- Oleomargarine. Harrow-Taylor Butter Co. No. 152,070; Feb. 14.
- Oleomargarine. Morris & Company. No. 159,956; Oct. 10.
- Oleomargarine. Ohio Dairy Company. No. 153,503; Mar. 21.
- Oleomargarine. Pacific Nut Butter Company. No. 159,980; Oct. 10.
- Oleomargarine. H. & S. Wels. No. 153,349; Mar. 14.
- Olive oil. Hijos de Ybarra. No. 153,696; Mar. 28.
- Olive oil, candies, figs, and fresh, dried, and candied oranges, pears, and apples. J. D. Antonopoulos. No. 152,665; Mar. 7.
- Olives and olive oil. Ehmann Olive Company. No. 151,385; Jan. 31.
- Olives, fruit jelly, fruit jam, apple butter, etc. Tisgood Products, Inc. No. 158,836; Sept. 12.
- Olives, Ripe. Kakarakis Brothers. No. 154,594; Apr. 18.
- Onions, Fresh. C. M. Kopp Company. No. 150,441; Jan. 3.
- Onions, potatoes, carrots, and apples, Fresh. B. Balish. No. 152,678; Mar. 7.
- Onions, Raw. Confederate Onion Growers Association. No. 153,416; Sept. 5.
- Ophthalmic mountings and parts thereof. Albex Optical Co. No. 158,163; Aug. 29.
- Ophthalmometers. F. A. Hardy & Company. No. 152,595; Feb. 28.
- Optical cases or conveyers. S. H. Robinson. No. 151,219; Jan. 24.
- Optical disks and accessories thereof. Central Scientific Company. No. 152,572; Feb. 28.
- Optical goods. American Optical Company. No. 162,668; Dec. 26.
- Optical trial sets and lenses, spectacle and eyeglass frames and mountings. Merry Optical Company. No. 154,331; Apr. 11.
- Optometers, phorometers, phoro-optometers, retinoscopes, ophthalmoscopes, axometers, schematic eyes, Maddox rods, and rotary prisms. H. L. De Zeng. No. 153,925; Mar. 28.
- Oranges. Covina Orange Growers Association. No. 154,783; May 9.
- Oranges. Covina Orange Growers Association. No. 155,657; June 6.
- Oranges and grapefruit. Polk County Packing Company. No. 160,941; Oct. 31.
- Oranges and lemons. American Fruit Growers of Palestine. No. 152,339; Feb. 28.
- Oranges and preserved oranges. I. K. Friedman. No. 160,492; Oct. 24.
- Oranges, Fresh. Covina Orange Growers Association. No. 156,221; June 20.
- Oranges, Fresh. Strathmore Co-Operative Association. No. 160,687; Oct. 24.
- Oranges, grapefruit, and tangerines, Fresh. R. H. Rice. No. 157,749; Aug. 15.
- Oranges, grapefruits, and tomatoes, Fresh. Commerce Fruit Company. No. 160,421; Oct. 24.
- Oranges, grapefruits, lemons, limes, etc., Fresh. J. M. Knight. No. 151,833; Feb. 14.
- Oranges, lemons, grapefruit, and tangerines, Fresh. W. H. Jameson. No. 157,692; Aug. 15.
- Organ published every two months. House. James H. Rhodes & Company. No. 153,513; Mar. 21.
- Organs. Bartola Musical Instrument Co. No. 159,165; Sept. 19.
- Organs, automatic organs, orchestrons. M. Welte & Sons. No. 155,559; May 30.
- Organs, House. Stevens & Wallis (Incorporated). No. 162,384; Dec. 12.
- Organs, Orchestral pipe. Robert-Morton Company. No. 161,277; Nov. 7.
- Ornamental electrical fixture parts of stamped brass and copper. Alfred Vester Sons, Inc. No. 150,997; Jan. 10.
- Orthopedic appliances. Scholl Manufacturing Company. Nos. 161,378-9; Nov. 7.
- Outer garment for women and girls. V. Pope. No. 158,061; Aug. 22.
- Outing outfits. H. J. Grey. No. 152,414; Feb. 28.
- Outlet boxes and fittings. General Electric Company. No. 151,489; Feb. 7.
- Oven-temperature regulators. Claus Automatic Gas Cock Co. No. 150,774; Jan. 10.
- Ovens, Bakers'. National Oven Company. No. 152,099; Feb. 14.
- Overall suits. Workmen's one-piece. Abbot Jacket Manufacturing Company. No. 157,631; Aug. 15.
- Overall union suits, Children's and infants' outdoor. N. V. Armstrong. No. 154,478; Apr. 18.
- Overalls. American Overall Mfg. Co. No. 154,476; Apr. 18.
- Overalls. C. E. Hymson. No. 154,580; Apr. 18.
- Overalls. C. E. Hymson. No. 157,813; Aug. 15.
- Overalls. Louisville Furnishing Goods Co. No. 161,535; Nov. 14.
- Overalls. O'Bryan Brothers Inc. No. 157,553; Aug. 8.
- Overalls. Portland Overall Manufacturing Company. No. 154,661; Apr. 18.
- Overalls. Regal Manufacturing Company. No. 150,532; Jan. 3.
- Overalls. S. & S. Shirt Company. No. 156,814; July 11.
- Overalls. Straus Mfg. Co. No. 159,228; Sept. 19.
- Overalls and rompers. Children's. Sackman Brothers Company. No. 152,491; Feb. 28.
- Overalls and trousers, Men's, boys', and children's. Large & Roomy Overall Mfg. Co. No. 161,526; Nov. 14.
- Overalls and underwear. Johnstons Dry Goods Co. No. 154,446; Apr. 11.
- Overalls and work shirts. A. W. Overall Company. No. 161,248; Nov. 7.
- Overalls and work shirts, Men's. Berry-Beall Dry Goods Company. No. 153,894; Sept. 19.
- Overalls, coats, jumpers, and work shirts. Winder Manufacturing Co. No. 156,084; June 13.
- Overalls, coats, pants, knickers, and work shirts. C. P. Brown Mfg. Co. No. 160,140; Oct. 17.
- Overalls, coveralls, work shirts, etc. United States Overall Manufacturing Company. No. 157,231; July 25.
- Overalls, jackets, and work shirts. Lawrenceburg Overall Mfg. Co. No. 161,199; Nov. 7.
- Overalls, jackets, and work shirts. Winer Mfg. Co. No. 155,361; May 23.
- Overalls, jackets, work shirts, dust coats, auto coats, etc. Friedman Brothers Inc. No. 161,141; Nov. 7.
- Overalls, jumpers, pants. American Overall Co. No. 161,999; Nov. 28.
- Overalls, jumpers, union underwear, and combination suits. L. S. Tobin. No. 161,648; Nov. 14.
- Overalls, overall coats, and pants, Men's and boys'. Fort Smith Garment Co. No. 153,540; Sept. 5.
- Overalls, overall coats, trousers, and suits, coveralls, and work shirts. United States Overall Manufacturing Company. No. 158,842; Sept. 12.
- Overalls, shirts, men's, women's, and children's underwear, hosiery, and belts, and one-piece work garments. F. Brody & Sons Co. No. 158,622; Sept. 12.
- Overalls, shirts, undershirts, and pants. Lurie Manufacturing Co. No. 161,538; Nov. 14.
- Overalls, work and dress shirts, khaki pants, etc. G. D. Milligan Grocer Co. No. 156,139; June 13.
- Overalls, work jackets, work shirts, and work trousers. Burlington Overall Manufacturing Company. No. 161,353; Nov. 7.
- Overalls, work shirts, and pants. Philipsborn's, Inc. No. 154,660; Apr. 18.
- Overalls, work shirts, jumpers, duck coats, etc. Keet & Rountree Dry Goods Company. No. 161,185; Nov. 7.
- Overalls, work shirts, mackinaws, etc. W. H. Van Leeuwen, Jr. No. 156,074; June 13.
- Overcoats. Hodgman Rubber Company. No. 154,576; Apr. 18.
- Overcoats and suits, Men's. Jaffe, Feingold & Wiener. No. 161,177; Nov. 7.
- Overcoats, mackinaws, flannel shirts, etc. Oregon City Woolen Mills. No. 162,447; Dec. 12.
- Overcoats, Men's. Lord & Taylor. No. 162,165; Dec. 5.
- Overcoats, Men's and young men's. W. H. Wanamaker. No. 158,139; Aug. 22.
- Overcoats, raincoats, suits, etc. Men's, women's, and misses'. Rosenwald & Weil Inc. No. 161,608; Nov. 14.
- Overcoats, suits, vests, trousers, coats, Men's. Baren. Lehrman & Berler. No. 150,722; Jan. 10.
- Oxid of antimony and pigments made therefrom. Cookson & Company. No. 151,454; Feb. 7.
- Oxid, oxygen. Nitrous. Ohio Chemical & Manufacturing Co. No. 159,208; Sept. 19.
- Oxytocic. Society of Chemical Industry in Basle. No. 156,427; June 20.
- Oysters and canned oysters. L. P. Maggioni & Co. No. 160,571; Oct. 24.
- Oysters and canned oysters. North Atlantic Oyster Farms, Inc. No. 161,970; Nov. 28.
- Package of boys' athletic goods, Combination. Ken-Wel Sporting Goods Company. No. 160,898; Oct. 31.
- Package outfit containing a ready-cut garment stamped for embroidery and cotton for working the same. John Taylor Dry Goods Co. No. 162,914; Dec. 26.
- Package outfits containing certain goods. James Lees and Sons Company. No. 151,839; Feb. 14.
- Packaging machinery. Mechanical. Pneumatic Scale Corporation. No. 161,590; Nov. 14.
- Packing case, Built-up. Utility Manufacturing Company. No. 156,820; July 11.

Alphabetical list of trade-marks—Continued.

- Packing, Composition. Williamsport Development Company. No. 156,471; June 20.
- Packing, Fluid-tight. Mason Packing Company. No. 160,236; Oct. 17.
- Packing-house products. Brennan Packing Co. No. 150,260; Jan. 3.
- Packing-house products. John Lewis & Company. No. 150,449; Jan. 3.
- Packing, Machinery. R. W. Benson. No. 152,683; Mar. 7.
- Packing, Machinery. Goetz Gasket and Packing Company. No. 156,594; July 4.
- Packing machines, envelope and bag machines, etc., Pulverous-matter. Aktiebolaget Gerh. Arehns Mekaniska Verkstad. No. 153,639; Mar. 28.
- Packing, Metallic. Crane Packing Co. No. 156,508; June 27.
- Packing, Piston and piston-rod. Johns Manville Incorporated. No. 159,947; Oct. 10.
- Packing prepared from paper treated with glycerine, formaldehyde, and glue. Baeder Adamson Company. No. 153,971; Apr. 4.
- Packing, Shredded metallic. Stewart R. Browne Mfg. Co. No. 161,687; Nov. 14.
- Packings, gaskets, and washers of leather. Hess and Hopkins Leather Company. No. 157,263; July 25.
- Packings, Leather. H. G. Preston. No. 151,043; Jan. 10.
- Packings, Steam and hydraulic. Montgomery Bros. Inc. No. 154,103; Apr. 4.
- Padlocks. Eagle Lock Co. Nos. 153,706-7; Mar. 28.
- Padlocks. Eagle Lock Co. No. 154,923; May 16.
- Padlocks and certain other locks and keys and parts thereof, etc. Frain-Slaymaker Hardware Company. No. 153,720; Mar. 28.
- Padlocks and locks. John Dunn, Son & Co. No. 150,793; Jan. 10.
- Pads, Chair. T. R. Braley. No. 151,685; Feb. 14.
- Pails, coal hods, dinner pails, etc., Metal (galvanized iron or tin). Atlantic Stamping Company. No. 158,886; Sept. 19.
- Pails, drums, and cheese boxes, and fiber containers for shipping commodities, Fiber. Container Company. No. 158,643; Sept. 12.
- Pails, Metallic dairy. Non-Spill Sanitary Dairy Pail Company. No. 151,040; Jan. 10.
- Pails, pans, vats, scoops, etc. E. C. Walker, 3rd. No. 151,279; Jan. 24.
- Paint. American Paint & Putty Co. No. 153,395; Mar. 21.
- Paint. Dayton Color Works Company. No. 151,026; Jan. 10.
- Paint. Goheen Corporation. No. 159,699; Oct. 3.
- Paint. Lowe Brothers Company. No. 151,034; Jan. 10.
- Paint. E. Maynz. No. 20,398; renewed Nov. 24, 1921.
- Paint. Tusuline Company. No. 150,623; Jan. 3.
- Paint and enamel dissolving and disintegrating preparations. Automotive Supply Manufacturing Company. No. 153,401; Mar. 21.
- Paint and varnish for automobiles and automobile bodies. LykGlas Auto ReNuAl System, Inc. No. 158,739; Sept. 12.
- Paint and varnish, House. Wheeler Varnish Works. No. 162,940; Dec. 26.
- Paint and varnish remover. Standard Varnish Works. No. 151,362; Jan. 31.
- Paint and varnish remover. Taylor-Van Houten Co. No. 151,253; Jan. 24.
- Paint and varnish removers. Chalmers Chemical Company. No. 158,630; Sept. 12.
- Paint, Automobile. Wheeler Varnish Works. No. 153,057; Mar. 7.
- Paint, Barn. Lowe Brothers Company. No. 150,687; Jan. 3.
- Paint, Black ready-mixed. Dayton Color Works Company. No. 154,915; May 16.
- Paint, Bridge and roof. Lowe Brothers Company. No. 150,688; Jan. 3.
- Paintbrushes. Baker Brush Co. No. 158,383; Sept. 5.
- Paintbrushes. M. I. Wilcox Company. No. 155,563; May 30.
- Paintbrushes, scratch brushes, and dusters for painters' use. Sherwin-Williams Company. No. 153,304; Mar. 14.
- Paint coating for exterior surfaces. Truscon Steel Company. No. 151,266; Jan. 24.
- Paint coatings, Protective. Dampney Company of America. Nos. 158,645-6; Sept. 12.
- Paint, Dry, paste, and ready-mixed. Industrial Paint Company. No. 158,460; Sept. 5.
- Paint, Enamel. J. F. Kurpees Paint Company. No. 162,805; Dec. 26.
- Paint enamels, prepared shellacs, varnishes, engine enamels, etc. James B. Day & Co. No. 158,930; Sept. 19.
- Paint enamels, varnishes, paints. Wadsworth, Howland & Co. No. 151,278; Jan. 24.
- Paint enamels, White and colored. Murphy Varnish Company. No. 152,892; Mar. 7.
- Paint, Flat oil. John P. Cochran Co. No. 158,922; Sept. 19.
- Paint, Flat wall. Capitol Paint & Varnish Company. No. 160,147; Oct. 17.
- Paint, Flat wall. Dayton Color Works Company. No. 153,434; Mar. 21.
- Paint for coating glass, Waterproof. J. Walsh. No. 158,855; Sept. 12.
- Paint for structural steel. Goheen Corporation. No. 152,793; Mar. 7.
- Paint for wood and metal, Enamel. American Enamel Company. No. 152,656; Mar. 7.
- Paint, House. Dayton Color Works Company. No. 154,263; Apr. 11.
- Paint, Liquid. Goheen Corporation. No. 150,383; Jan. 3.
- Paint of paste consistency, Nondrying. C. W. Paine. No. 158,764; Sept. 12.
- Paint, Oil. William Zinser & Company. No. 159,602; Sept. 26.
- Paint, oils, varnishes, etc., Certain. Sup-R-Lin Products Co. No. 151,250; Jan. 24.
- Paint, Paste. Lowe Brothers Company. No. 150,686; Jan. 3.
- Paint pigment. United States Graphite Company. No. 162,397; Dec. 12.
- Paint pigments, Dry. Aluminum Cooking Utensil Co. No. 151,312; Jan. 31.
- Paint, Preserving. R. Avenarius & Co. No. 161,402; Nov. 14.
- Paint renovator. W. B. Green. No. 156,521; June 27.
- Paint, Roof. A. J. Linehan. No. 159,629; Sept. 26.
- Paint thinner or turpentine substitute. Pioneer Manufacturing Company. No. 158,772; Sept. 12.
- Paint, Washable oil. Phelan-Faust Paint Manufacturing Company. No. 154,364; Apr. 11.
- Paint, waterproofing paint, etc., Ready-mixed roofing. C. A. Woolsey Paint & Color Company. No. 155,128; May 16.
- Painters' smalt. W. C. Estes. No. 21,887; renewed Oct. 25, 1922.
- Painting, Sizing for wall. Alinall Manufacturing Company. No. 161,678; Nov. 14.
- Painting roofs and preventing corrosion, Compound for. J. F. Kurpees Paint Company. No. 150,682; Jan. 3.
- Paints. Armor Oil & Chemical Company. No. 153,399; Mar. 21.
- Paints. Arnesto Paint Co. No. 155,196; May 23.
- Paints. Bradley & Vrooman. No. 152,568; Feb. 28.
- Paints. A. C. Fischer. No. 160,182; Oct. 17.
- Paints. Goheen Corporation. No. 151,137; Jan. 24.
- Paints. Goheen Corporation. No. 159,360; Sept. 26.
- Paints. H. H. Hirsch. No. 158,455; Sept. 5.
- Paints. J. W. Howland. No. 151,336; Jan. 31.
- Paints. Klein Manufacturing Company. No. 150,870; Jan. 10.
- Paints. O'Brien Varnish Company. No. 152,918; Mar. 7.
- Paints. Ohio Varnish Company. No. 154,358; Apr. 11.
- Paints. Sherwin-Williams Company. No. 151,047; Jan. 10.
- Paints. Sherwin-Williams Company. No. 152,994; Mar. 7.
- Paints. Sherwin-Williams Company. No. 154,150; Apr. 4.
- Paints. Silumite Products Corporation. No. 154,151; Apr. 4.
- Paints. Southern Cotton Oil Company. No. 153,004; Mar. 7.
- Paints and dry powders for making paints. Asbestomine Company. No. 159,260; Sept. 26.
- Paints and elastic paints, Roof. Sherwin-Williams Company. No. 161,982; Nov. 28.
- Paints and paint enamels. L. Leavitt. No. 162,438; Dec. 12.
- Paints and paint enamels, Ready-mixed. Voltax Company. No. 156,774; July 11.
- Paints and paint enamels, varnishes. Detroit Graphite Company. No. 150,331; Jan. 3.
- Paints and painters' materials. Williams-Hayward Company. No. 161,388; Nov. 7.
- Paints and painters' materials, Certain. William Zinsser & Company. No. 161,675; Nov. 14.
- Paints and putty. M. I. Wilcox Company. No. 161,670; Nov. 14.
- Paints and thinners, varnishes, Ready-mixed coal-tar. Rivalac Paint Company. No. 159,074; Sept. 19.
- Paints and varnish, Enamel. Keystone Varnish Company. No. 159,004; Sept. 19.
- Paints and varnishes. Patten Manufacturing Company. No. 154,363; Apr. 11.
- Paints and varnishes. Ruberoid Co. No. 154,378; Apr. 11.
- Paints and varnishes, Fireproof. N. M. Hopkins. No. 158,459; Sept. 5.
- Paints and varnishes, Paste and ready-mixed. Baer Brothers. No. 162,190; Dec. 12.
- Paints and varnishes, Removers for. Chalmers Chemical Company. No. 162,481; Dec. 19.
- Paints, automobile paint enamels, ground color, etc. Marietta Paint & Color Co. No. 150,891; Jan. 10.
- Paints, colors, enamels, etc. L. Reusche & Co. No. 150,951; Jan. 10.
- Paints, colors, stains, etc., Certain. McDougall-Butler Co. No. 159,028; Sept. 19.
- Paints, colors, varnishes, etc. Wm. Enders Manufacturing Company. No. 153,160; Mar. 14.
- Paints, combination whitelead, etc. Hoboken White Lead & Color Works. No. 158,456; Sept. 5.

- Paints, Damp-resisting. Toch Brothers. No. 162,918; Dec. 26.
- Paints, Dry. Cleveland Coatings Company. No. 158,412; Sept. 5.
- Paints, Dry. Sun Chemical & Color Company. No. 158,961; Sept. 19.
- Paints, Dry, paste, and ready-mixed. Industrial Paint Company. No. 158,709; Sept. 12.
- Paints, Dry, paste, and ready-mixed. Wadsworth, Howland & Co. No. 154,413; Apr. 11.
- Paints, Dry, ready-mixed, and paste. E. M. Cherry. No. 159,678; Oct. 3.
- Paints drying with a semigloss finish. Sherwin-Williams Company. No. 159,223; Sept. 19.
- Paints, Enamel. Toch Brothers. No. 161,985; Nov. 28.
- Paints for foundation and finishing coats on certain materials. Goheen Corporation. No. 156,519; June 27.
- Paints for glass, etc. General Electric Company. No. 158,828; Sept. 12.
- Paints, House. Miller Wall Paper and Paint Co. No. 160,581; Oct. 24.
- Paints, linseed oil, turpentine, etc. Kansas City Wall Paper Co. No. 162,795; Dec. 26.
- Paints of ready-mixed form and varnishes, fillers, paint pigments and vehicles, etc. Marine Decking & Supply Company. No. 158,746; Sept. 12.
- Paints, oils, varnish, etc. Paine & Nixon Co. No. 154,123; Apr. 4.
- Paints, paint enamels, primers, and fillers, Certain. Sherwin-Williams Company. Nos. 159,219-22; Sept. 19.
- Paints, paint enamels, varnishes. Ivoroid Mixed Paint Company. No. 154,980; May 16.
- Paints, paint enamels, varnishes, fillers, and calcimines. Sherwin-Williams Company. No. 162,988; Dec. 26.
- Paints, Paste. Watson Paint and Glass Company. No. 153,348; Mar. 14.
- Paints, Protective. Semet-Solvay Co. No. 158,806; Sept. 12.
- Paints, putty, linseed oil, turpentine, etc. American Wall Paper Co. No. 162,183; Dec. 12.
- Paints, putty, linseed oil, turpentine, etc. Bazille & Partridge, Inc. No. 162,192; Dec. 12.
- Paints, putty, linseed oil, turpentine, etc. Louisville Wall Paper Co. No. 162,816; Dec. 26.
- Paints, putty, linseed oil, turpentine, etc. Nebraska Wall Paper Co. No. 162,844; Dec. 26.
- Paints, Ready-mixed. Globe Marine Compositions Co. No. 160,342; Oct. 17.
- Paints, Ready-mixed. J. McQuade. No. 158,743; Sept. 12.
- Paints, Ready-mixed. Rubber and Cement, Incorporated. No. 154,377; Apr. 11.
- Paints, Ready-mixed. Smooth-On Manufacturing Company. No. 153,001; Mar. 7.
- Paints, Ready-mixed. United States Gutta Percha Paint Company. No. 155,107; May 16.
- Paints, Ready-mixed. W. White. No. 162,414; Dec. 12.
- Paints, ready-mixed paint, enamels, varnishes, etc. John Sexton and Company. No. 159,096; Sept. 19.
- Paints, stains, paint enamels, etc. Mixed. Benjamin Moore & Co. No. 159,041; Sept. 19.
- Paints, turpentine, varnishes, polishing oil. Standard Oil Company of New York. No. 153,008; Mar. 7.
- Paints, varnish, and paint enamel. Argus Manufacturing Company. No. 161,913; Nov. 28.
- Paints, varnishes, and coatings. William T. Baker, Inc. No. 159,605; Sept. 26.
- Paints, varnishes, and colors, Certain. California Paint Company. No. 150,277; Jan. 3.
- Paints, varnishes and colors, etc., Certain. C. A. Woolsey Paint & Color Company. Nos. 151,289-90; Jan. 24.
- Paints, varnishes, and floor filler, Ready-mixed. Lion Varnish Company. No. 159,415; Sept. 26.
- Paints, varnishes, and putty. M. I. Wilcox Company. No. 158,861; Sept. 12.
- Paints, varnishes, and shellacs, Certain. M. P. Cane. No. 158,914; Sept. 19.
- Paints, varnishes, and stains. Central Paint & Varnish Mfg. Co. No. 158,401; Sept. 5.
- Paints, varnishes, and waterproofing compounds. W. E. Greene. No. 159,187; Sept. 19.
- Paints, varnishes, enamels, etc. Breinig Brothers, Inc. No. 151,089; Jan. 24.
- Paints, varnishes, enamels, etc., Certain. Wadsworth-Howland Company. No. 150,639; Jan. 3.
- Paints, varnishes, etc. Pittsburgh Plate Glass Company. No. 151,354; Jan. 31.
- Paints, varnishes, etc., Liquid. Carpenter-Morton Company. No. 150,278; Jan. 3.
- Paints, varnishes, paint enamels, driers. E. E. Nice. No. 159,050; Sept. 19.
- Paints, varnishes, stains. Bradley & Vrooman Company. No. 158,620; Sept. 12.
- Paints, wood stains, etc. Alexander Lumber Company. No. 158,590; Sept. 12.
- Palettes, Children's water-color. Wallbrunn Kling & Co. No. 155,555; May 30.
- Palliative for throat diseases and malignant growths in throat. S. Sloma. No. 152,272; Feb. 21.
- Pamphlet, Monthly. Bachmeyer-Lutmer Press Company. No. 162,188; Dec. 12.
- Pamphlets and bound publications. H. C. Cowdrey. No. 150,784; Jan. 10.
- Pamphlets, booklets, or leaflets, Series of. Philadelphia Quartz Company. No. 157,560; Aug. 8.
- Pamphlets, books, circulars, and calendars, Printed. O. J. Moore. No. 161,021; Oct. 31.
- Pamphlets, books, circulars, prints, drawings, etc. International Federation of Technical Engineers', Architects', and Draftsmen's Unions. No. 157,691; Aug. 15.
- Pamphlets, circulars, and printed books. National Safety Council. No. 150,493; Jan. 3.
- Pamphlets, circulars, etc. M. Hartman. No. 151,794; Feb. 14.
- Pamphlets, magazines, books, leaflets, and advertising matter. Co-Operative League of The United States of America Assoc. No. 162,218; Dec. 12.
- Pamphlets, maps, and guidebooks, Travel. O. F. James. No. 158,993; Sept. 19.
- Pamphlets, Printed. National Catholic Welfare Council. No. 155,265; May 23.
- Pans and broom holders, Frying. Miller Lock Company. No. 159,440; Sept. 26.
- Pans, coffee boilers, dinner carriers, etc., Bread. Gustav Glaser Co. No. 156,284; June 20.
- Pans, Tinned bake. August Maag Company. No. 161,743; Nov. 21.
- Pants. Straus Mfg. Co. No. 161,643; Nov. 14.
- Pants and mackinaws, boy's mackinaws, ladies' bloomers, etc., Men's. S. M. Polans. No. 161,376; Nov. 7.
- Pants, Baby. I. B. Kleiwert Rubber Company. Nos. 161,189-90; Nov. 7.
- Pants, jackets, and overalls, Work. H. Edelman. No. 155,674; June 6.
- Pants, Knee. Straus Mfg. Co. No. 159,229; Sept. 19.
- Pants made of rubber, Children's. S. Blechman & Sons, Inc. No. 159,169; Sept. 19.
- Pants, Running. Robert Reis & Co. No. 161,273; Nov. 7.
- Paper. C. P. Lesh Paper Company. Nos. 160,561-4; Oct. 24.
- Paper, Abrasive. Minnesota Mining & Mfg. Co. No. 155,490; May 30.
- Paper, Adding-machine. Central Paper Company. No. 152,366; Feb. 28.
- Paper and blank books. F. Levy. No. 151,182; Jan. 24.
- Paper and cigarette tubes made of paper, Cigarette. Wilkinson Bros. & Co. Nos. 153,062-3; Mar. 7.
- Paper and cloth, Flint. Baeder Adamson Company. No. 151,654; Feb. 14.
- Paper and cloth, Flint, garment, and emery. Baeder Adamson Company. No. 151,653; Feb. 14.
- Paper and correspondence envelopes, Writing. George B. Hurd & Co. No. 157,812; Aug. 15.
- Paper and envelopes. C. F. Lesh Paper Company. No. 160,560; Oct. 24.
- Paper and envelopes. George B. Hurd & Co. No. 154,826; May 9.
- Paper and envelopes. George B. Hurd & Co. Nos. 157,419-21; Aug. 1.
- Paper and envelopes. Whiting Paper Company. Nos. 152,641-2; Feb. 28.
- Paper and envelopes, Blotting, toilet, wax, typewriting, legal-cap, and writing. Paul M. Adams Co. No. 160,356; Oct. 24.
- Paper and envelopes, Certain correspondence. Art Craft Shops Company. No. 151,665; Feb. 14.
- Paper and envelopes, Combined writing. R. W. Smith. No. 160,670; Oct. 24.
- Paper and envelopes, paper tablets, shipping labels, etc., Blank. Roller Printing and Paper Co. No. 162,113; Dec. 5.
- Paper and envelopes, Writing. George B. Hurd & Co. No. 21,138; renewed May 17, 1922.
- Paper and envelopes, Writing. Given Paper Company. No. 159,621; Sept. 26.
- Paper and envelopes, Writing. H. G. Pohlmann. No. 160,627; Oct. 24.
- Paper and envelopes, Writing. Marshall Field & Company. Nos. 160,573-4; Oct. 24.
- Paper and envelopes, Writing. Marshall Field & Company. No. 162,545; Dec. 19.
- Paper and envelopes, Writing. Charles E. Weyand & Co. No. 157,607; Aug. 8.
- Paper and envelopes, Writing. Whiting Paper Company. No. 153,952; Mar. 28.
- Paper and ledger, Writing. Fox River Paper Company. No. 159,353; Sept. 26.
- Paper and mailing envelopes. American Writing Paper Company. No. 154,191; Apr. 4.
- Paper and mailing envelopes, Writing. Whiting Paper Company. No. 151,005; Jan. 10.
- Paper and mailing envelopes, Writing. Whiting Paper Company. No. 153,905; Mar. 28.
- Paper and mailing envelopes, Writing. Whiting Paper Company. No. 155,124; May 16.
- Paper and paper towels, Toilet. J. Wyle. No. 161,860; Nov. 21.
- Paper and stationery. Hosonuma & Co. No. 151,174; Jan. 24.
- Paper and stationery, Certain. Klopp & Bartlett Company. No. 152,849; Mar. 7.
- Paper and stationery, Certain. United States Envelope Company. No. 155,298; May 23.
- Paper and textile testing machines. B. F. Perkins & Son. No. 160,108; Oct. 10.
- Paper and typewriter ribbons, Carbon. Carrib Mfg. Corporation. No. 151,704; Feb. 14.

Alphabetical list of trade-marks—Continued.

- Paper and typewriter ribbons, Carbon. Kee Lox Manufacturing Company. No. 158,718; Sept. 12.
- Paper, announcement cards, and mailing envelopes, Wedding. American Writing Paper Company. No. 156,794; July 11.
- Paper bags. Atlanta Paper Company. No. 154,221; Apr. 11.
- Paper bags. F. D. Croce & Co. No. 152,732; Mar. 7.
- Paper bags. Crown Willamette Paper Company. No. 150,316; Jan. 3.
- Paper bags. Mid-East Specialty Co. No. 162,445; Dec. 12.
- Paper bags. Victory Bag & Paper Co. No. 158,846; Sept. 12.
- Paper bags. Wortendyke Manufacturing Co. No. 150,657; Jan. 3.
- Paper bags, boxes, and cups. Wayagamack Pulp & Paper Co. No. 154,417; Apr. 11.
- Paper, Bleached and unbleached sulphite. W. A. Armstrong. No. 159,259; Sept. 26.
- Paper, Bond. J. W. Butler Paper Company. No. 155,569; May 30.
- Paper, Bond. J. W. Butler Paper Company. No. 162,953; Dec. 26.
- Paper, Bond. Hamilton Card & Paper House Inc. No. 157,515; Aug. 8.
- Paper, Bond. W. P. Jeffries Company. No. 162,642; Dec. 19.
- Paper, Bond. Louisville Paper Co. No. 158,004; Aug. 22.
- Paper, Bond. Peerless Paper Company. No. 151,206; Jan. 24.
- Paper, Bond. A. W. Pohlman Paper Co. Nos. 160,625-6; Oct. 24.
- Paper, Bond, ledger, etc. Fischel Paper Co. No. 153,442; Mar. 21.
- Paper, Book. American Writing Paper Company. No. 153,365; Apr. 4.
- Paper, Book. Bermingham & Prosser Company. No. 157,409; Aug. 1.
- Paper, Carbon. E. Hassinger. No. 151,503; Feb. 7.
- Paper, Carbon. E. Hassinger. No. 155,440; May 30.
- Paper, Carbon. Kee Lox Manufacturing Company. No. 155,386; May 23.
- Paper, Carbon. Kee Lox Manufacturing Co. Nos. 158,715-7; Sept. 12.
- Paper, Carbon. Kee Lox Manufacturing Company. No. 158,719; Sept. 12.
- Paper, Carbon. J. D. McCarthy Co. No. 151,537; Feb. 7.
- Paper, cardboard, box board, and mailing envelopes. J. & J. Scott Ltd. No. 155,076; May 16.
- Paper, cardboard, bristol board, etc., Writing, typewriting, and other. Strathmore Paper Company. No. 157,589; Aug. 8.
- Paper, cardboard, etc. Strathmore Paper Company. No. 156,493; June 20.
- Paper, cards, and envelopes therefor. Correspondence. Jordan Marsh Company. No. 150,859; Jan. 10.
- Paper, Certain. H. Edmunds. No. 152,161; Feb. 21.
- Paper, Certain. S. Walter, Inc. No. 155,557; May 30.
- Paper, clamps and clips, thumb tacks, pin tickets, and ring clips. Neosting Pin Ticket Company. No. 160,606; Oct. 24.
- Paper cleaner, Wall-. Absorene Manufacturing Company. No. 159,246; Sept. 26.
- Paper clips. F. J. Kline. No. 155,995; June 13.
- Paper, Coated. Ware Coated Paper Company. No. 153,387; Mar. 14.
- Paper, Coated book and magazine. West Virginia Pulp & Paper Co. No. 152,330; Feb. 21.
- Paper containers, cans, and shipping tubs. Angel International Corporation. No. 158,882; Sept. 19.
- Paper, correspondence envelopes, tablets, and blank books. J. C. Blair Company. No. 160,395; Oct. 24.
- Paper, Cover. American Writing Paper Company. No. 152,661; Mar. 7.
- Paper, Cover. J. W. Butler Paper Company. No. 157,882; Aug. 22.
- Paper, Cover. Chemical Paper Manufacturing Co. No. 150,769; Jan. 10.
- Paper, Cover. Marvellum Company. No. 159,431; Sept. 26.
- Paper, Cover. Marvellum Company. Nos. 160,918-19; Oct. 31.
- Paper, Crepe. Tissue Company, The. No. 161,730; Nov. 14.
- Paper cups. W. W. Bevan Company. No. 151,315; Jan. 31.
- Paper drinking cups. Boston Drinking Cup Co. No. 162,686; Dec. 26.
- Paper drinking cups. Sherman Envelope Company. No. 151,232; Jan. 24.
- Paper, Enamel. Seaman Patrick Paper Company. No. 152,498; Feb. 28.
- Paper, Enamel. Seaman Patrick Paper Co. No. 153,945; Mar. 28.
- Paper, envelopes, and visiting cards. Essence de L'âme Perfume Co. No. 155,956; June 13.
- Paper, envelopes, etc., Writing and note. Macniven and Cameron Limited. No. 160,570; Oct. 24.
- Paper, envelopes, tablets, and blank books. J. C. Blair Company. No. 159,281; Sept. 26.
- Paper fasteners, covers, and folders, desk files, etc. F. J. Kline. Nos. 155,996-7; June 13.
- Paper-fastening machines, Automatic. Alex. H. Irvin Company. No. 159,388; Sept. 26.
- Paper for general printing and writing purposes and mailing envelopes. F. A. Ridley. No. 153,515; Mar. 21.
- Paper for printing, lithographing, pen and ink, etc., Bond. J. W. Butler Paper Company. No. 156,796; July 11.
- Paper for wrapping and packing purposes. Van de Carr Paper Company. No. 160,990; Oct. 31.
- Paper for wrapping purposes. Trinity Bag & Paper Co. No. 153,882; Mar. 28.
- Paper from which patterns are made. Charles F. Hubbs & Co. No. 159,379; Sept. 26.
- Paper, Glassine. Warren Manufacturing Company. No. 159,579; Sept. 26.
- Paper, Gummed. Central Paper Company. No. 159,309; Sept. 26.
- Paper, Gummed. Ideal Coated Paper Company. Nos. 151,143-4; Jan. 24.
- Paper, Gummed. Ideal Coated Paper Company. No. 156,804; July 11.
- Paper, Gummed. Samuel Jones & Company. No. 157,992; Aug. 22.
- Paper-handling machines, Certain. Dexter Folder Company. No. 152,836; Feb. 28.
- Paper, Handmade. C. H. Boulin. No. 159,304; Sept. 26.
- Paper, Impression. H. C. Davison. No. 21,868; renewed Oct. 18, 1922.
- Paper, Kraft wrapping. Industrial Paper Company. No. 153,468; Mar. 21.
- Paper, Ledger. Gilbert Paper Company. No. 160,775; Oct. 24.
- Paper luncheon sets. Sanitary Products Corporation of America. No. 157,199; July 25.
- Paper mainly used for carbonizing purposes, Tissue. Rose & Frank Co. Nos. 159,499-50; Sept. 26.
- Paper mainly used for carbonizing purposes, Tissue. Rose & Frank Co. No. 160,646; Oct. 24.
- Paper matrices. J. O'Flaherty. Nos. 159,633-4; Sept. 26.
- Paper napkins, Crepe-. Johnson-Locke Mercantile Co. No. 160,895; Oct. 31.
- Paper, Newsprint. Brompton Pulp & Paper Co. No. 154,887; May 16.
- Paper, Newsprint. Tidewater Paper Mills Company. No. 161,847; Nov. 21.
- Paper, Onionskin. Chemical Paper Manufacturing Co. No. 152,713; Mar. 7.
- Paper outer garments, Waterproof. J. A. Gavin. No. 158,680; Sept. 12.
- Paper, paper napkins and towels, Toilet and wrapping. John Hoberg Co. No. 154,971; May 16.
- Paper, paper napkins, towels, and tablecloths, Toilet. Fort Howard Paper Company. Nos. 153,449-50; Mar. 21.
- Paper, paper napkins, towels, and tablecloths, Toilet. Fort Howard Paper Company. No. 162,961; Dec. 26.
- Paper, paper towels and napkins, Toilet. George Paper Corporation. No. 161,778; Nov. 21.
- Paper, paper towels, and napkins, Wrapping and toilet. Continental Paper & Bag Mills. No. 150,780; Jan. 10.
- Paper, papeteries, correspondence envelopes, etc., Writing, printing, and typewriter. Powers Paper Company. No. 157,563; Aug. 8.
- Paper patterns. W. L. M. Clark, Incorporated. No. 155,643; June 6.
- Paper, pencils, pens, blank books, bill files, etc., Writing and wrapping. W. H. Johnson. No. 162,091; Dec. 5.
- Paper plates. Alfred Bleyer & Co. No. 159,608; Sept. 26.
- Paper, Printing. S. D. Warren Company. No. 151,059; Jan. 10.
- Paper, Printing. S. D. Warren Company. No. 155,114; May 16.
- Paper, Printing and writing. Parsons Paper Company. No. 154,839; Mar. 9.
- Paper, Printing and writing. Parsons Paper Company. No. 155,045; May 16.
- Paper, Printing and writing bond. Alling and Cory Company. Nos. 150,706-7; Jan. 10.
- Paper, Printing, writing, book, and cover. J. W. Butler Paper Company. No. 162,002-4; Nov. 28.
- Paper products. Brown Company. No. 159,291; Sept. 26.
- Paper published daily, Afternoon. Louisville Times Company. No. 162,295; Dec. 12.
- Paper pulp. Stamscott Company. No. 155,842; June 6.
- Paper, Roofing. Galdo Dulzaides y Compania. No. 152,066; Feb. 14.
- Paper, Safety. Forman Bassett Company. No. 151,764; Feb. 14.
- Paper stationery, Printed. Diamond Press. No. 153,697; Mar. 28.
- Paper straws. Munson Manufacturing Company. No. 152,891; Mar. 7.
- Paper-supporting pads for writing purposes. Sainberg & Co. No. 161,833; Nov. 21.
- Paper, Surface and metal coated, roll-printed, and embossed. Walther & Company. No. 159,574; Sept. 26.
- Paper tablets, papeteries, envelopes, and boxes of sheet paper. Charles Leich & Co. No. 157,126; July 25.
- Paper tablets, papeteries, typewriter tablets, etc., Writing. White & Wyckoff Manufacturing Company. No. 159,586; Sept. 26.
- Paper, Tissue. Robert Fletcher & Son. No. 20,232; renewed Oct. 20, 1921.
- Paper, Tissue. Rose & Frank Co. No. 161,829; Nov. 21.
- Paper, Tissue toilet. Graham Paper Company. No. 153,731; Mar. 28.

- Paper, Toilet. J. F. Auer. No. 154,871; May 16.
 Paper, Toilet. Chatfield & Woods Company. No. 160,409; Oct. 24.
 Paper, Toilet. Cupples Company, Manufacturers. No. 153,580; Mar. 21.
 Paper, Toilet. Dudley Paper Co. No. 160,453; Oct. 24.
 Paper, Toilet. Marshall Field & Company. No. 157,358; Aug. 1.
 Paper, Toilet. Foley Paper Company. No. 153,373; Mar. 14.
 Paper, Toilet. Foley Paper Company. No. 154,026; Apr. 4.
 Paper, Toilet. Linton & Scott. No. 156,748; July 11.
 Paper, Toilet. Linton & Scott. No. 161,619; Nov. 14.
 Paper, Toilet. National Paper Products Company. No. 162,563; Dec. 19.
 Paper, Toilet. Oswego River Paper Mills. No. 151,202; Jan. 24.
 Paper, Toilet. Sauquoit Toilet Paper Co. No. 162,588; Dec. 19.
 Paper, Toilet. Scott Paper Company. No. 151,228; Jan. 24.
 Paper, Toilet. S. Walter, Inc. No. 155,112; May 16.
 Paper, Toilet. S. Walter, Inc. No. 155,301; May 23.
 Paper, Toilet. D. S. Walton & Co. No. 160,719; Oct. 24.
 Paper, Toilet. Jos. Weil & Sons, Inc. No. 161,851; Nov. 21.
 Paper, Toilet. White-Washburne Company. No. 153,631; Mar. 21.
 Paper, Toilet. White-Washburne Company, Inc. No. 154,853; May 9.
 Paper, Toilet. White-Washburne Company. Nos. 155,119-22; May 16.
 Paper, Toilet. White-Washburne Company. Nos. 156,465-7; June 20.
 Paper, Toilet. White-Washburne Company. No. 156,783; July 11.
 Paper, Toilet. White-Washburne Company. Nos. 161,003-5; Oct. 31.
 Paper, Toilet. White-Washburne Company. Nos. 161,853-5; Nov. 21.
 Paper, Toilet. Wortendyke Mfg. Co. No. 153,388; Mar. 14.
 Paper, Toilet and wrapping. Industrial Paper Company. No. 152,431; Feb. 28.
 Paper, Toilet tissue. National Paper Products Company. No. 154,837; May 9.
 Paper, Toweling and napkins. United States Paper Mills, Inc. No. 160,712; Oct. 24.
 Paper, Toweling and napkins. United States Paper Mills, Inc. Nos. 162,997-8; Dec. 26.
 Paper, Towels. National Paper Products Company. No. 162,972; Dec. 26.
 Paper, Towels. Stevens & Thompson Paper Company. No. 154,157; Apr. 4.
 Paper, Towels. West Disinfecting Company. No. 159,581; Sept. 26.
 Paper, Towels. White-Washburne Company. No. 153,632; Mar. 21.
 Paper, Towels and a piece of soap, Package containing. F. H. Chatfield. No. 157,653; Aug. 15.
 Paper, Towels, napkins, and tablecloths. J. Sofge. No. 153,533; Mar. 21.
 Paper, Tracing. G. Vincent. No. 159,568; Sept. 26.
 Paper, Tracing. G. Vincent. No. 161,384; Nov. 7.
 Paper, Transparent wrapping. Birn & Wachenheim. No. 153,916; Mar. 28.
 Paper used in the making of cigarettes. Treated. J. Sonnenschein Hop Company. No. 161,632; Nov. 14.
 Paper, Water-finish fiber. Bayless Manufacturing Corporation. No. 160,385; Oct. 24.
 Paper, Wax. Newark Paraffine and Parchment Paper Co. No. 155,027; May 16.
 Paper, Waxed. Dragon Paper Mfg. Co. No. 154,014; Apr. 4.
 Paper, Waxed. Dragon Paper Mfg. Co. No. 154,919; May 16.
 Paper, Waxed. Hamersley Mfg. Co. Nos. 161,876-81; Nov. 21.
 Paper, Waxed wrapping, crepe, tissue, and toilet. San Antonio Drug Co. No. 158,080; Aug. 22.
 Paper, Weights. S. C. Patchett. No. 155,046; May 16.
 Paper, Wrapping. Graham Paper Company. No. 156,268; June 20.
 Paper, Wrapping. Charles F. Hubbs & Company. No. 160,532; Oct. 24.
 Paper, Wrapping. B. A. Nienhauser. No. 150,920; Jan. 10.
 Paper, Wrapping. F. C. Strype. No. 155,095; May 16.
 Paper, Wrapping. Waxwell Paper Company. No. 158,140; Aug. 22.
 Paper, Wrapping, blotter, bond, writing, and tissue. Albe-marle Paper Mfg. Co. No. 151,064; Jan. 24.
 Paper, Wrapping, bond, and cover. Arthur R. Rapp Company. No. 159,488; Sept. 26.
 Paper, Wrapping, bond, etc. Gilman-Winter Paper Company. No. 160,499; Oct. 24.
 Paper, Writing. Geo. D. Barnard Stationery Company. No. 161,748; Nov. 21.
 Paper, Writing. Berkowitz Envelope Company. No. 155,138; May 16.
 Paper, Writing. Fox River Paper Company. No. 154,027; Apr. 4.
 Paper, Writing. Fox River Paper Company. Nos. 160,486-8; Oct. 24.
 Paper, Writing. Gilbert Paper Co. No. 160,870; Oct. 31.
 Paper, Writing. Hollingsworth & Whitney Co. No. 162,640; Dec. 19.
 Paper, Writing. Import Paper Company. Nos. 157,985-6; Aug. 22.
 Paper, Writing. Inter-Collegiate Press. No. 157,345; Aug. 1.
 Paper, Writing. Kalamazoo Paper Company. No. 157,423; Aug. 1.
 Paper, Writing. E. E. Lloyd Paper Company. No. 154,999; May 16.
 Paper, Writing. M. Milton. No. 160,582; Oct. 24.
 Paper, Writing. J. O. Peterson. No. 162,577; Dec. 19.
 Paper, Writing. Marcus Ward, Inc. No. 152,292; Feb. 21.
 Paper, Writing. Byron Weston Company. No. 159,298; Sept. 26.
 Paper, Writing, Wright, Barrett & Stilwell Company. Nos. 153,082-3; Mar. 7.
 Paper, Writing and printing. American Writing Paper Company. Nos. 153,963-4; Apr. 4.
 Paper, Writing and printing. Brown Company. No. 151,091; Jan. 24.
 Paper, Writing and printing. International Paper Company. No. 160,537; Oct. 24.
 Paper, Writing and printing. Peerless Paper Company. No. 151,207; Jan. 24.
 Paper, writing pads, notebooks, erasers, etc., Legal and letter. J. Meyers Stationery & Printing Co. No. 159,437; Sept. 26.
 Paper, writing pads, notebooks, etc., Legal and letter. J. Meyers Stationery & Printing Co. No. 157,361; Aug. 1.
 Paper, Writing, printing, and book. C. P. Lesh Company. Nos. 157,620-2; Aug. 8.
 Paper, Writing, printing, and book. C. P. Lesh Paper Company. Nos. 159,199-201; Sept. 19.
 Paper, Writing, printing, and book. C. P. Lesh Paper Company. No. 159,411; Sept. 26.
 Paper, Writing, printing, and book. C. P. Lesh Paper Company. No. 159,628; Sept. 26.
 Paper, Writing, printing, and book. C. P. Lesh Paper Company. No. 161,796; Nov. 21.
 Paper, Writing, printing, and book. C. P. Lesh Paper Company. No. 162,533; Dec. 19.
 Paper, writing tablets, papeteries, etc., Writing and printing. Powers Paper Company. No. 157,564; Aug. 8.
 Paper, writing tablets, papeteries, etc., Writing, printing, and typewriter. Powers Paper Company. No. 157,565; Aug. 8.
 Papers and cardboard, Cover. B. D. Rising Paper Company. No. 153,384; Mar. 14.
 Papers and envelopes. American Writing Paper Company. No. 152,562; Feb. 28.
 Papers and envelopes. American Writing Paper Company. No. 153,961; Apr. 4.
 Papers and envelopes, Correspondence. Geo. W. Millar & Co. No. 162,098; Dec. 5.
 Papers and mailing envelopes, Printing, etc. American Writing Paper Company. No. 153,962; Apr. 4.
 Papers and mailing envelopes, Writing. Whiting Paper Company. No. 155,123; May 16.
 Papers and mailing envelopes, Writing. Whiting Paper Company. No. 157,245; July 25.
 Papers and mailing envelopes, Writing and printing. American Writing Paper Company. No. 152,341-2; Feb. 28.
 Papers and typewriter ribbons, Carbon. O. H. Sandman. No. 155,908; June 6.
 Papers, Bond. Whiting-Plover Paper Co. No. 161,856; Nov. 21.
 Papers, Bond, writing, and ledger. Bishop Paper Co. No. 160,761; Oct. 24.
 Papers, Book. Stone & Andrew Inc. No. 153,543; Mar. 21.
 Papers, Certain. Britains Limited. No. 154,885; May 16.
 Papers, Certain named. Britains Limited. No. 155,207; May 23.
 Papers, Coated. Springfield Glazed Paper Co. No. 154,163; Apr. 4.
 Papers, Cover and textile book. Central Ohio Paper Company. No. 150,764; Jan. 10.
 Papers, Enamelled cover and book. Central Ohio Paper Company. No. 150,765; Jan. 10.
 Papers, envelopes, etc. Powers Paper Company. No. 155,775; May 16.
 Papers, generally bond, linen, ledger, bristol, wedding, etc. B. D. Rising Paper Company. Nos. 154,840-2; May 9.
 Papers, Ledger. Alling and Cory Company. No. 152,335; Feb. 28.
 Papers, Ledger and bond. Gilbert Paper Co. No. 161,777; Nov. 21.
 Papers, Ledger, bond, and book. Stone & Andrew Inc. No. 153,542; Mar. 21.
 Papers, papeteries, cards, tablets, and pads. Highland Manufacturing Company. Nos. 161,783-4; Nov. 21.
 Papers, Printing and writing. West Virginia Pulp & Paper Co. No. 152,636; Feb. 28.
 Papers, sensitized cloth, and sensitized paper, Blue-print. B. L. Makepeace, Incorporated. No. 161,893; Nov. 21.
 Papers, Waxed and transparent. Package Paper & Supply Corporation. No. 152,477; Feb. 28.

Alphabetical list of trade-marks—Continued.

- Papers, Waxed and transparent. Package Paper & Supply Corporation. No. 152,931; Mar. 7.
 Papers, Waxed and transparent. Package Paper & Supply Corporation. No. 153,505; Mar. 21.
 Papers, Writing. L. L. Brown Paper Company. No. 152,570; Feb. 28.
 Papers, Writing. Corlies, Macy & Co. No. 152,312; Feb. 21.
 Papers, Writing and ledger. Woelz Bros. No. 161,858; Nov. 21.
 Papers, Writing and printing. American Writing Paper Company. No. 152,660; Mar. 7.
 Papers, Writing and printing. American Writing Paper Company. No. 157,451; Aug. 8.
 Papers, Writing and printing. American Writing Paper Company. Nos. 159,255-6; Sept. 26.
 Papers, Writing and printing. Charles F. Hubbs & Co. No. 159,380; Sept. 26.
 Papers—writing, bond, and ledger, Flat. Kellogg & Bulkeley Company. No. 153,478; Mar. 21.
 Papers, Writing, printing, ledger, record, etc. New York-New England Company. No. 160,605; Oct. 24.
 Papereries, tablets, envelopes, and writing paper. Taylor-Atkins Paper Company. No. 162,025; Nov. 28.
 Parasols and umbrellas. S. C. Gelband. No. 158,682; Sept. 12.
 Parasols, Novelty. Parisienne Flapper Parasol Company. No. 160,265; Oct. 17.
 Partitions, guards, steel gratings, etc., Open-mesh. Expanded Metal Safety Guard Co. No. 162,744; Dec. 26.
 Passenger motor cars and commercial motor vehicles. Lexington Motor Company. No. 153,935; Mar. 28.
 Paste, Hand. J. B. Matthews. No. 162,825; Dec. 26.
 Paste, Healing and beautifying. B. Decombe-Cook. No. 155,317; May 23.
 Paste, Undertakers' make-up. H. Reuter. No. 155,351; May 23.
 Pastes and powders for the teeth, skin, and hair, and perfumery. Parfumerie Roger & Gallet. No. 161,581; Nov. 14.
 Pastes, Boiler and furnace. Commercial Paste Company, The. No. 155,184; May 16.
 Pastes, Facial pack. M. E. Rowden. No. 160,279; Oct. 17.
 Pastils, Bronchial. Aktiebolaget Pastill. No. 161,676; Nov. 14.
 Pastry and certain canned goods. F. P. Daly. No. 152,379; Feb. 28.
 Pastry goods, both baked and cooked. E. L. Ballew. No. 159,802; Oct. 10.
 Pastry, topping for ice cream, cake, and sauce, Filler for French. Chase & Anderson. No. 162,039; Dec. 5.
 Patches for inner tubes. J. S. Wingo. No. 160,742; Oct. 24.
 Pattern outfits, bevells, calipers, etc. Fairbanks Co. No. 156,668; July 11.
 Pavements and paving material containing bituminous matter. Warren Brothers Company. No. 160,322; Oct. 17.
 Pavements and paving materials. Warren Brothers Company. Nos. 152,539-40; Feb. 28.
 Paving materials of asphalt. United States Asphalt Refining Company. No. 160,314; Oct. 17.
 Peaches, Fresh. C. J. Hood. No. 152,072; Feb. 14.
 Peanut butter. California Peanut Company. No. 162,480; Dec. 19.
 Peanut butter, candy. M. Rosenberg. No. 154,675; Apr. 18.
 Peanuts, almonds, pecans, and filberts, Salted. H. J. Meyer. No. 156,011; June 13.
 Peanuts and almonds, peanut butter, Salted. United Fig & Date Company. No. 160,702; Oct. 24.
 Peanuts and peanut butter. National Food Products Co. No. 160,106; Oct. 10.
 Peanuts, peanut butter, and sandwiches, chocolate bars, Salted. E. T. Bunch. No. 154,779; May 9.
 Peanuts, Sugar-toasted. Mi Candy Company. No. 160,580; Oct. 24.
 Pearls. M. Dottenheim. Nos. 158,207-8; Aug. 29.
 Pearls. R. Harris & Co. No. 152,814; Mar. 7.
 Pearls. Maybaum Bros. Inc. No. 153,240; Mar. 14.
 Pearls and necklaces, made of same, Artificial. R. H. Bodman. No. 156,629; July 11.
 Pearls and strings of pearls, Single. M. Dottenheim. No. 162,234; Dec. 12.
 Pearls, Artificial or imitation. Janovici & Co. No. 153,214; Mar. 14.
 Pearls, Imitation. May Department Stores Company. No. 158,260; Aug. 29.
 Pearls, Imitation. New England Glass Works. No. 156,720; July 11.
 Pearls, necklaces, and clasps. F. M. Botelho. No. 156,632; July 11.
 Pearls, necklaces, bracelets, etc., Artificial. C. A. Keene. Nos. 158,241-2; Aug. 29.
 Pears and plums, Fresh. H. Reed. No. 162,349; Dec. 12.
 Pecan nuts, Thin-shelled. E. G. Hess. No. 154,572; Apr. 18.
 Pecan products—namely, pecan butter. Nutsbest Packing Company. No. 154,646; Apr. 18.
 Pecans and pecan-nut meats, Shelled. Shell-less Nut Co. No. 156,052; June 13.
 Pencils. American Lead Pencil Company. No. 154,426; Apr. 11.
 Pencils. Brown & Bigelow. No. 160,402; Oct. 24.
 Pencils. W. H. Ingersoll. No. 159,384; Sept. 26.
 Pencils. Inkograph Company. No. 156,306; June 20.
 Pencils. Joseph Dixon Crucible Company. No. 151,384; Jan. 31.
 Pencils, Lead. A. J. Coleman. No. 157,029; July 25.
 Pencils, Lead. Eagle Pencil Company. No. 157,493; Aug. 8.
 Pencils, Lead. General Manufacturing Company. No. 153,452; Mar. 21.
 Pencils, Lead. Mable, Todd & Co. No. 153,379; Mar. 14.
 Pencils, Lead. Mays Manufacturing Co. No. 155,015; May 16.
 Pencils, Lead. Realite Pencil Company. No. 152,486; Feb. 28.
 Pencils. Listo Pencil Corporation. No. 159,416; Sept. 26.
 Pencils. F. W. Palomba. No. 159,473; Sept. 26.
 Pencils and crayons. Schwanhäusser, late Grossberger & Kurz. Nos. 162,589-91; Dec. 19.
 Pencils and parts thereof, Lead. Conklin Pen Manufacturing Co. No. 160,768; Oct. 24.
 Pencils, Lead. American Lead Pencil Company. No. 22,273; renewed Dec. 27, 1922.
 Pencils, Lead. Eugene Dietzgen Company. No. 160,450; Oct. 24.
 Pencils, Lead. Joseph Dixon Crucible Company. No. 161,790; Nov. 21.
 Pencils, leads, and erasers. Brown & Bigelow. No. 153,420; Mar. 21.
 Pencils, Magazine. J. Swanberg. No. 155,097; May 16.
 Pencils, Magazine. Waldref Manufacturing Co. No. 155,110; May 16.
 Pencils, Mechanical. Ostra Corporation. No. 162,569; Dec. 19.
 Pencils, penholders, rubber and soap erasers. Blaisdell Pencil Company. No. 153,408; Mar. 21.
 Pencils, Stylographic ink. H. A. Schmidt. No. 158,082; Aug. 22.
 Penholders. B. W. Mach. No. 157,624; Aug. 8.
 Pens and fountain pens. Esterbrook Steel Pen Mfg. Co. No. 160,466; Oct. 24.
 Pens and lead pencils. Fountain. Dictator Fountain Pen Company. No. 156,582; July 4.
 Pens and lead pencils, Fountain. Jordan Marsh Company. No. 153,770; Mar. 28.
 Pens and pencils, Fountain. Moore Pen Company. No. 160,587; Oct. 24.
 Pens and parts thereof, Fountain. Wahl Company. No. 156,823; July 11.
 Pens, Fountain. M. I. Ayer. No. 155,136; May 16.
 Pens, Fountain. L. Badois. No. 154,873; May 16.
 Pens, Fountain. Dunn Pen Company. No. 153,704; Mar. 28.
 Pens, Fountain. Dunn Pen Company. Nos. 154,920-1; May 16.
 Pens, Fountain, Dunn Pen Company. No. 160,460; Oct. 24.
 Pens, Fountain. Dunn Pen Company. No. 162,063; Dec. 5.
 Pens, Fountain. Le Boeuf Fountain Pen Company. No. 162,531; Dec. 19.
 Pens, Fountain. Max Finstone. No. 153,372; Mar. 14.
 Pens, Fountain. Parker Pen Co. No. 155,044; May 16.
 Pens, Fountain. Parker Pen Co. No. 162,572; Dec. 19.
 Pens, Fountain. Salz Brothers. No. 155,280; May 23.
 Pens, Fountain. Simplo Füllfeder-Gesellschaft Voss, Lausen & Dziambor. No. 160,667; Oct. 24.
 Pens, holders, pencils, and crayons, Fountain, stylographic and common writing. C. H. Eibel. No. 154,825; May 9.
 Pens, lead pencils, rubber erasers, Steel. E. Hassinger. No. 154,964; May 16.
 Pens, Stylographic. Sanford Pen Company, Inc. No. 154,843; May 9.
 Pens, stylographic pens, and pencils, Fountain. Eggens-Hambler Company. No. 159,345; Sept. 26.
 Pens, Support for fountain. L. K. Desmond. No. 159,329; Sept. 26.
 Pepper, allspice, cinnamon, turmeric, ginger, cloves, sage, etc. Worden Grocer Company. No. 156,944; July 18.
 Peppers, eggplants, cucumbers, etc., Fresh. Ft. Myers Truckers Assn. No. 152,780; Mar. 7.
 Peppermint astringent. F. H. Green. No. 158,225; Aug. 29.
 Percolators, coffee and tea urns, etc., Coffee. J. L. Lemoine. No. 152,232; Feb. 28.
 Perfume. Balba Corporation of America. No. 158,173; Aug. 29.
 Perfume. A. W. Herbst. Nos. 155,709-11; June 6.
 Perfume. A. W. Herbst. Nos. 156,291-2; June 20.
 Perfume, Breath. F. W. Brooke. No. 162,035; Dec. 5.
 Perfume extract and toilet water. Houbigant, Inc. No. 157,343; Aug. 1.
 Perfume extracts, and toilet waters. E. L. Mittelstaedt. No. 158,265; Aug. 29.
 Perfume, Liquid and Powdered. Colgate & Company. No. 152,135; Feb. 21.
 Perfume, toilet water, etc. Cheramy, Incorporated. No. 156,206; June 20.
 Perfume, toilet water, face lotion, rouge, etc. Cheramy, Incorporated. No. 157,316; Aug. 1.
 Perfume, toilet water, talcum powder. Edward Burnham. No. 154,235; Apr. 11.
 Perfumery. L. Herrgott. No. 157,342; Aug. 1.

- Perfumery. L. Herrgott. No. 157,350; Aug. 1.
 Perfumery. A. Jourin. No. 158,238; Aug. 29.
 Perfumery, face creams, toilet waters. Atlanta Barbers' Supply Co. No. 153,651; Mar. 28.
 Perfumery, toilet water, face powder, etc. Atlanta Barbers' Supply Co. No. 153,967; Apr. 4.
 Perfumes, R. Bernardo. No. 150,248; Jan. 3.
 Perfumes. Dainty Dabs Importing Corp. No. 152,734; Mar. 7.
 Perfumes. Harriet Hubbard Ayer. Nos. 160,825-7; Oct. 31.
 Perfumes. R. Eyben. No. 154,020; Apr. 4.
 Perfumes. R. Eyben. No. 157,328; Aug. 1.
 Perfumes. Mijets Perfume Company. No. 157,365; Aug. 1.
 Perfumes. G. C. Spencer. No. 154,391; Apr. 11.
 Perfumes. M. E. Tilson. No. 156,071; June 13.
 Perfumes. A. S. Wildes. No. 160,076; Oct. 10.
 Perfumes and perfumed soaps and toilet preparations. Colgate & Company. No. 20,095; renewed Sept. 1, 1921.
 Perfumes and toilet water. J. Herman. No. 157,519; Aug. 8.
 Perfumes, Concentrated, Odorbase Manufacturing Company. No. 155,578; May 30.
 Perfumes, Containers for. Button & Sierad. No. 152,698; Mar. 7.
 Perfumes, extracts, and toilet water. Colgate & Company. No. 150,307; Jan. 3.
 Perfumes, face and toilet powders. J. Simon & Cie. No. 154,385; Apr. 11.
 Perfumes, face powders, and creams. Pacquin, Inc. Parfumeurs. No. 154,361; Apr. 11.
 Perfumes, Liquid and powdered. Colgate & Company. No. 154,004; Apr. 4.
 Perfumes, Liquid and powdered. Colgate & Co. Nos. 155,646-7; June 6.
 Perfumes, perfumed powders, and toilet waters. Colgate & Co. No. 158,923; Sept. 19.
 Perfumes, sachets, etc. John Wanamaker, New York. Nos. 152,288-9; Feb. 21.
 Perfumes, sachets, talcum powder, face powder, cold cream, etc. Cheramy, Inc. Nos. 151,444-7; Feb. 7.
 Perfumes sold as extracts and lotions. A. Bourjois & Co. No. 158,189; Aug. 29.
 Perfumes, toilet cream, etc. Société Anonyme des Parfums d'Arly. No. 152,273; Feb. 21.
 Perfumes, toilet waters, and sachets. K. D. Chowdury. No. 155,395; May 30.
 Perfumes, toilet waters, brilliantine. M. M. Richard Vve. Grenoville. No. 152,188; Feb. 21.
 Perfumes, toilet waters, creams, powders, and rouges. J. W. Beavan. No. 150,245; Jan. 3.
 Perfumes, toilet waters, etc. Kaufman-Straus Co. No. 159,921; Oct. 10.
 Perfumes, Toilet waters, etc. M. M. Richard Vve. Grenoville. No. 155,553; May 30.
 Perfumes, toilet waters, lotions, brilliantines, etc. A. Gravier. Nos. 150,392-3; Jan. 3.
 Perfumes, toilet waters, face and toilet powders, sachets, etc. Cheramy, Inc. No. 159,310; Sept. 26.
 Perfumes, toilet waters, face lotions, eau de cologne, etc. M. M. Richard Vve. Grenoville. No. 152,187; Feb. 21.
 Perfumes, toilet waters, face powders, etc. Magnum Import Co. No. 160,913; Oct. 31.
 Perfumes, toilet waters, face powders, sachet, cold cream, etc. Cheramy, Inc. No. 161,097; Nov. 7.
 Perfumes, toilet waters, sachet, and sachet powders. Parfumerie Houbigant. No. 158,052; Aug. 22.
 Perfumes, toilet waters, toilet creams, tissue tonics, etc. Heinrich Chemical Co. No. 151,032; Jan. 10.
 Periodical. George E. Merrill Company. No. 155,256; May 23.
 Periodical, Annual. Field & Stream Publishing Company. No. 152,026; Feb. 14.
 Periodical devoted to games, Section of a daily, weekly, or monthly. Associated Editors. No. 158,885; Sept. 19.
 Periodical issued in the spring and fall of each year. Woman's Institute of Domestic Arts & Sciences, Inc. No. 157,797; Aug. 15.
 Periodical, Monthly. C. S. Berriman. No. 152,018; Feb. 14.
 Periodical, Monthly. A. W. Brayley. No. 154,883; May 16.
 Periodical, Monthly. Boot and Shoe Recorder Publishing Company. No. 162,198; Dec. 12.
 Periodical, Monthly. Butterick Publishing Company. No. 158,909; Sept. 19.
 Periodical, Monthly. Butterick Publishing Company. No. 162,207; Dec. 12.
 Periodical, Monthly. Dixon & Hillen. No. 159,332; Sept. 26.
 Periodical, Monthly. M. L. Downs. No. 155,222; May 23.
 Periodical, Monthly. Houston Publishing Company. No. 159,378; Sept. 26.
 Periodical, Monthly. International Association of Lions Clubs. No. 152,030; Feb. 14.
 Periodical, Monthly. Management Magazines, Inc. No. 162,541; Dec. 19.
 Periodical, Monthly. R. S. Monger. No. 159,040; Sept. 19.
 Periodical, Monthly. Shoe and Leather Reporter Co. No. 159,100; Sept. 19.
 Periodical, Monthly. Wollensak Optical Company. No. 159,158; Sept. 19.
 Periodical, Printed. John B. Rogers Producing Company. No. 157,753; Aug. 15.
 Periodical published monthly. International Telephone and Telegraph Corporation. No. 160,892; Oct. 31.
 Periodical published monthly. Purchasing Agents Association of Western Massachusetts. No. 158,778; Sept. 12.
 Periodical, Semimonthly. Kansas Live Stock Association. No. 162,280; Dec. 12.
 Periodical, Weekly. Boot and Shoe Recorder Publishing Company. No. 162,199; Dec. 12.
 Periodical, Weekly. Interpreter Publishing Corporation. No. 158,991; Sept. 19.
 Periodicals. Atlas Publishing Company. No. 154,870; May 16.
 Periodicals. A. Bowyer. No. 157,464; Aug. 8.
 Periodicals. Webb Publishing Company. No. 159,149; Sept. 19.
 Periodicals issued bimonthly. Westinghouse Union Battery Co. No. 159,152; Sept. 19.
 Periodicals issued monthly, bulletins, and circulars. International Association of Lions Clubs. No. 152,029; Feb. 14.
 Periodicals, Monthly. M. E. Hall. No. 162,510; Dec. 19.
 Periodicals, Monthly. Webb Publishing Company. No. 159,150; Sept. 19.
 Periodicals, Monthly, etc. W. Ehrman. No. 155,224; May 23.
 Periodicals, Printed. Edmund Wright Ginsberg Co. No. 155,233; May 23.
 Periodicals, Weekly. Atlas Publishing Company. No. 155,201; May 23.
 Petrolatum. Standard Oil Company, (Incorporated in New Jersey.) No. 153,870; Mar. 28.
 Petrolatum, petrolatum greases and oils. Standard Oil Company (Incorporated in New Jersey.) No. 161,304; Nov. 7.
 Petroleum and certain products thereof. Texas Company. No. 150,620; Jan. 3.
 Petroleum and petroleum products. Compass Oil Company. No. 152,727; Mar. 7.
 Petroleum and products of petroleum. Standard Oil Company of New York. No. 161,636; Nov. 14.
 Petroleum and products of petroleum for illuminating, etc. Standard Oil Company of New York. No. 155,090; May 16.
 Petroleum ether. Standard Oil Company. No. 150,588; Jan. 3.
 Petroleum for illuminating, heating, and power purposes, Refined. Standard Oil Company of New York. No. 161,637; Nov. 14.
 Petroleum for internal and external use as a remedy for disease, Refined. Angier Chemical Company. No. 21,224; renewed May 31, 1922.
 Petroleum jelly. Chesebrough Manufacturing Co. Consolidated. No. 161,098; Nov. 7.
 Petroleum jelly, oil of petrol, white mineral oil, etc., for lubricating purposes. Chesebrough Manufacturing Company, Consolidated. No. 151,099; Jan. 24.
 Petroleum products. Fletcher Oil Company. No. 152,773; Mar. 7.
 Petroleum products, Certain. Standard Oil Company (Incorporated in New Jersey). No. 161,638; Nov. 14.
 Petticoats. Burton Bros. & Co. No. 155,938; June 13.
 Petticoats. United Royalties Corp. No. 154,719; Apr. 18.
 Petticoats and bloomers. Cosgrove Brothers, Inc. No. 161,443; Nov. 14.
 Petticoats and pantallettes. Ph. N. Gladstone Corp. No. 151,135; Jan. 24.
 Pharmaceutical and toilet preparations, Certain. Sanitas Company. No. 161,590; Feb. 7.
 Pharmaceutical compound rich in yeast vitamins, etc., Refined. E. J. Reefer. No. 154,134; Apr. 4.
 Pharmaceutical preparation. Aktiengesellschaft für Chemische Produkte vormals H. Scheldemandel. No. 157,300; Aug. 1.
 Pharmaceutical preparation. Bronchotone Manufacturing Co. No. 150,756; Jan. 10.
 Pharmaceutical preparation. Howes' Laboratories. No. 152,196; Feb. 21.
 Pharmaceutical preparation. Preston Chemical Company. No. 153,826; Mar. 28.
 Pharmaceutical preparation. A. G. Suchywerke. No. 157,437; Aug. 1.
 Pharmaceutical preparation. Vawter and Vawter. No. 154,173; Apr. 4.
 Pharmaceutical preparation, Certain. Calco Chemical Company. No. 152,129; Feb. 21.
 Pharmaceutical preparation, Certain. J. F. Hrejsa. No. 153,756; Mar. 28.
 Pharmaceutical preparation, Certain. Menley & James, Limited, New York. No. 152,229; Feb. 21.
 Pharmaceutical preparation for ovarian insufficiency. Comer, Fetterly & Co. No. 155,399; May 30.
 Pharmaceutical preparation for promoting the growth of hair. H. Cohrs. No. 157,905; Aug. 22.
 Pharmaceutical preparations. Bo-Peep Corporation. No. 161,074; Nov. 7.
 Pharmaceutical preparations. H. P. Clearwater. No. 159,314; Sept. 26.
 Pharmaceutical preparations. W. F. Hayn. No. 161,158; Nov. 7.
 Pharmaceutical preparations. Frederick F. Ingram Company. Nos. 158,463-4; Sept. 5.

Alphabetical list of trade-marks—Continued.

- Pharmaceutical preparations. Suchywerke, A. G. No. 154,397; Apr. 11.
- Pharmaceutical preparations, Certain. J. X. Chemical Company. No. 156,203; June 20.
- Pharmaceutical preparations, Certain. J. M. Frost. No. 156,252; June 20.
- Pharmaceutical preparations for faulty digestion. Comer, Fetterly & Co. No. 160,848; Oct. 31.
- Pharmaceutical preparations for stimulating liver-cell action. J. F. Murray. No. 158,749; Sept. 12.
- Pharmaceutical products. P. Rous. No. 154,375; Apr. 11.
- Pharmaceutical products especially for asthma. Dr. Kade's Medizinische-Pharmazeutisches Fabrikations- & Export-gesellschaft Dr. Franz Lutze. No. 157,347; Aug. 1.
- Phonograph cabinets. A. Culp. No. 151,725; Feb. 14.
- Phonograph cabinets. F. X. Stahl. No. 159,108; Sept. 19.
- Phonograph instruments and records. Operaphone Co. No. 158,274; Aug. 29.
- Phonograph motors, Electrical. Efficiency Electric Corporation. No. 151,743; Feb. 14.
- Phonograph needles. Fletcher Alltones Needle Co. No. 155,326; May 23.
- Phonograph needles. Masterphone Corporation of America. No. 150,895; Jan. 10.
- Phonograph needles. Nupoint Mfg. Co. No. 150,921; Jan. 10.
- Phonograph needles. Tonepen Company. No. 161,319; Nov. 7.
- Phonograph or sound-reproducing instrument. Van Toy Co. No. 155,108; May 16.
- Phonograph-record albums. A. F. Kasnick. No. 158,240; Aug. 29.
- Phonograph-record disks. H. S. Russell. No. 161,231; Nov. 7.
- Phonograph-record disks. R. B. Wheelan. No. 153,056; Mar. 7.
- Phonograph-record files. Phonograph Accessories Co. No. 151,210; Jan. 24.
- Phonograph records. Cameo Record Corporation. No. 161,089; Nov. 7.
- Phonograph records. Emerson Phonograph Company. No. 156,666; July 11.
- Phonograph records. Funk & Wagnalls. No. 155,151; May 16.
- Phonograph records. Opera Disc Company. No. 150,941; Jan. 10.
- Phonograph records. Plaza Music Company. No. 156,733; July 11.
- Phonograph records. Rodeheaver Company. No. 155,066; May 16.
- Phonograph records, Album for. F. S. Betts. No. 151,080; Jan. 24.
- Phonograph records, Brushes for. Columbia Graphophone Manufacturing Company. No. 152,023; Feb. 14.
- Phonograph reproducers, Diaphragms for. Jewell Phonographs Company. No. 158,237; Aug. 29.
- Phonograph sound-box attachments. R. Quinn. No. 155,056; May 16.
- Phonographic machines. Brenard Manufacturing Company. No. 155,206; May 23.
- Phonographic prints. A. E. Jacobson. No. 158,992; Sept. 19.
- Phonographic sound records or plates. Polyphonwerke Aktiengesellschaft. No. 155,049; May 16.
- Phonographs. H. L. Bullinger. No. 158,183; Aug. 29.
- Phonographs. Thomas A. Edison, Incorporated. Nos. 156,661-2; July 11.
- Phonographs. Federal Phonograph Co. No. 154,932; May 16.
- Phonographs. J. & C. Fischer. No. 156,672; July 11.
- Phonographs. J. & C. Fischer. No. 162,246; Dec. 12.
- Phonographs. F. W. Hanpeter Furniture Company. No. 155,238; May 23.
- Phonographs. B. E. Linquist. No. 150,886; Jan. 10.
- Phonographs. Manufacturers' Phonograph Co. No. 155,252; May 23.
- Phonographs. Melodia Phonograph Co. No. 158,261; Aug. 29.
- Phonographs. E. Oberbeck. No. 161,575; Nov. 14.
- Phonographs. P. Selditch. No. 150,964; Jan. 10.
- Phonographs, Accessories and supplies for. Polyphonwerke Aktiengesellschaft. No. 155,050; May 16.
- Phonographs and parts therefor and phonograph records. Benoit & Mathieu. No. 155,012; May 16.
- Phonographs and parts thereof. J. R. Dew. No. 155,319; May 23.
- Phonographs and phonograph records. Brunswick-Balke-Collender Company. No. 156,636; July 11.
- Phonographs and phonograph records. Burns-Pollock Electric Manufacturing Company. No. 152,697; Mar. 7.
- Phonographs and phonograph records. Emerson Phonograph Company. No. 155,412; May 30.
- Phonographs and talking machines. W. O. Erbes. No. 152,582; Feb. 28.
- Phonographs and tone arms, sound boxes, horns, and amplifiers. Cadillac Phonograph Corporation. No. 161,083; Nov. 7.
- Phonographs, Fiber needles for. Hall Manufacturing Co. No. 152,809; Mar. 7.
- Phonographs, phonograph records, etc. New York Recording Laboratories. No. 153,268; Mar. 14.
- Phonographs, phonograph records, player and manual pianos and organs, and player rolls. Pace Phonograph Corporation. No. 156,726; July 11.
- Phonographs, phonograph records, player rolls. Pace Phonograph Corporation. No. 155,502; May 30.
- Phonographs. Sound reproducers for. Brunswick-Balke-Collender Company. No. 154,889; May 16.
- Phonographs, talking machines, and records therefor. Mutual Trading Company. No. 151,198; Jan. 24.
- Phosphate, Pebble. Coronet Phosphate Company. No. 162,219; Dec. 12.
- Phosphorus. La Societe des Produits Chimiques Coignet. No. 158,001; Aug. 22.
- Photo-engraving subjects, Pamphlets, leaflets, and circulars for. Lima Photo-Engraving Co. No. 151,847; Feb. 14.
- Photographic developer. Chemicals and By-Products Limited. No. 155,639; June 6.
- Photographic developers. Grasselli Chemical Company. No. 156,280; June 20.
- Photographic developers. Societe Chimique des Usines du Rhone. No. 153,858; Mar. 28.
- Photographic developers. Toch Brothers. No. 160,984; Oct. 31.
- Photographic developers, acids, etc. Defender Photo Supply Company. No. 155,664; June 6.
- Photographic developing paper. Haloid Company. No. 151,499; Feb. 7.
- Photographic developing papers. Haloid Company. No. 154,285-6; Apr. 11.
- Photographic film. Seneca Camera Manufacturing Company. No. 150,965; Jan. 10.
- Photographic films. Luporini Bros. No. 161,798; Nov. 21.
- Photographic paper. Defender Photo Supply Company. No. 157,041; July 25.
- Photographic paper, Light-sensitive. Eastman Kodak Company. Nos. 162,726-31; Dec. 26.
- Photographic paper, Sensitized. Defender Photo Supply Company. No. 152,745; Mar. 7.
- Photographic plates and films. G. Cramer. No. 20,185; renewed Oct. 6, 1921.
- Photographic plates and films. G. Cramer. No. 20,254; renewed Oct. 27, 1922.
- Photographic plates and films. Heiser Co. No. 150,838; Jan. 10.
- Photographic plates or films. G. Cramer. No. 20,186; renewed Oct. 6, 1921.
- Photographic-printing machines and parts and sensitized photographic paper. Bromograph A.-G. Mannheim. No. 159,667; Oct. 3.
- Photographic printing paper. Leto Photo Materials Co. (1905) Ltd. No. 161,958; Nov. 28.
- Photographic prints. K. E. Anderson. No. 162,184; Dec. 12.
- Photographic prints. Sun Company. No. 162,995; Dec. 26.
- Photographic prints and publications. Bachrach, Incorporated. No. 162,189; Dec. 12.
- Photographic prints on metal. Radiotone Photo Company. No. 155,274; May 23.
- Photographic purposes, Developer for. Mallinckrodt Chemical Works. No. 158,010; Aug. 22.
- Photographic reproductions for use in printing, Metal plates carrying. R. John. No. 159,917; Oct. 10.
- Photographs. M. DeWitt. No. 157,490; Aug. 8.
- Photographs for advertising purposes, Gummed. Braxington Photo System Inc. No. 152,020; Feb. 14.
- Photographs made on glass, etc. R. H. Le Sesne. No. 150,683; Jan. 3.
- Photography, Chemical preparation for use in. Actien-Gesellschaft Fur Anilin Fabrikation. No. 20,518; renewed Dec. 29, 1921.
- Photography, Chemicals used in. Bromograph A.-G., Mannheim. Nos. 158,194-5; Aug. 29.
- Photography, Toning and fixing solutions, etc., all used in. Boots Pure Drug Company. No. 161,418; Nov. 14.
- Piano rolls, Player-. Plaza Music Co. No. 161,263; Nov. 7.
- Piano player, Player rolls for. Billings Player Roll Company. No. 151,083; Jan. 24.
- Piano trapwork, wire, and pedals. Widney Company. No. 156,785; July 11.
- Pianos. C. C. and E. E. Conway and T. P. Brown, trustees, trading as Hallet & Davis Piano Co. No. 156,651; July 11.
- Pianos. Coolidge Piano Company. Nos. 152,728-9; Mar. 7.
- Pianos. Meissner Piano Co. No. 162,315; Dec. 12.
- Pianos. Packard Piano Company. No. 155,270; May 23.
- Pianos. O. W. Wuerz Co. Nos. 153,360-1; Mar. 14.
- Pianos and furniture. Cleaner and polisher for. W. J. Merchant. No. 150,901; Jan. 10.
- Pianos and piano players. Premier Grand Piano Corporation. No. 155,054; May 16.
- Pianos and player attachments for such or similarly-keyed musical instruments, Player. J. F. Eustis Manufacturing Company. No. 150,806; Jan. 10.
- Pianos and player pianos. Cable-Nelson Piano Company. No. 161,866; Nov. 21.
- Pianos and player pianos. Lauter-Humana Company. No. 154,992; May 16.
- Pianos and player pianos. Mansfield Piano Co. No. 152,096; Feb. 14.
- Pianos and player pianos. Overbrook Piano Company. No. 152,927; Mar. 7.
- Pianos and player pianos. Price and Teeple Piano Company. No. 152,955; Mar. 7.

- Pianos and player pianos. Price & Teeple Piano Company. No. 157,432; Aug. 1.
- Pianos and player pianos. Sargent Piano Company. No. 162,985; Dec. 26.
- Pianos, Electric, reproducing and player. Madison Piano Company. No. 155,160; May 16.
- Pianos, etc., Wire for. American Steel & Wire Company of New Jersey. No. 154,864; May 16.
- Pianos, Perforated note sheets for player. Q. R. S. Music Company. No. 151,215; Jan. 24.
- Pianos, Perforated note sheets for player. Q. R. S. Music Company. No. 161,268; Nov. 7.
- Pianos, piano players, pianos, and organs, Player. M. Steinert & Sons Co. No. 155,288; May 23.
- Pianos, Player. Gulbrandsen-Dickinson Company. No. 150,831; Jan. 10.
- Pianos, player pianos, electrically-operated pianos. Spectator & Son Piano Co. No. 156,758; July 11.
- Pianos, player pianos, phonographs. Weser Bros. Inc. No. 158,320; Aug. 29.
- Pianos, Upright, grand, and player. Roth Bros. Piano Co. No. 155,278; May 23.
- Pianos, Upright, grand, player, and reproducing. E. A. Brooks. No. 159,170; Sept. 19.
- Pick heads. Boston Detachable Point Pick Co. No. 161,751; Nov. 21.
- Pickles. Madolene Pickle Corporation. No. 156,005; June 13.
- Pickles. F. Russell. No. 160,649; Oct. 24.
- Pickles. Yale Products Co. No. 153,084; Mar. 7.
- Pickles and relishes. Lutz Bros. No. 19,486; renewed May 12, 1921.
- Picture and stereopticon films, Motion-. Affiliated Distributors Inc. No. 153,636; Mar. 28.
- Picture-card art novelties. Cincinnati Art Publishing Company. No. 152,022; Feb. 14.
- Picture film, Moving-. Omnia Import Corporation. No. 150,939; Jan. 10.
- Picture films. S. Cohen. No. 150,777; Jan. 10.
- Picture films, cameras, and picture-projecting machines, Motion-. De Forest Radio Telephone and Telegraph Company. Nos. 152,381-2; Feb. 28.
- Picture films, Motion-. American Releasing Corporation. No. 161,739; Nov. 21.
- Picture films, Motion-. Arrow Film Corporation. Nos. 155,197-8; May 23.
- Picture films, Motion-. Buck Mix Productions, Inc. No. 161,754; Nov. 21.
- Picture films, Motion-. Cosmorama Pictures Corporation. No. 150,783; Jan. 10.
- Picture films, Motion-. Fables Pictures, Inc. Nos. 150,800-10; Jan. 10.
- Picture films, Motion-. Hall Room Boys Photoplays, Incorporated. No. 154,284; Apr. 11.
- Picture films, Motion-. S. M. Herzlg. No. 152,425; Feb. 28.
- Picture films, Motion-. Metro Pictures Corporation. No. 153,798; Mar. 28.
- Picture films, Motion-. Texas Film Company. No. 151,606; Feb. 7.
- Picture films, Motion and stereopticon. Mastodon Films Inc. Nos. 150,896-7; Jan. 10.
- Picture films, Moving-. Cartoonigrams, Inc. No. 161,756; Nov. 21.
- Picture films, Moving-. Dawn Films, Inc. No. 154,261; Apr. 11.
- Picture films showing sketches, drawings, and photographs, Motion-. J. Ollendorff. No. 150,937; Jan. 10.
- Picture frames and hand mirrors. James McCreery & Company. No. 162,537; Dec. 19.
- Picture-projecting apparatus, Motion-. Withington-Hunting, Inc. No. 155,302; May 23.
- Picture screens, Moving-. B. H. Woeldike. No. 152,646; Feb. 28.
- Picture, spotlight, stereopticon, and photographic apparatus, Condensing lenses used in motion-. Sussfeld, Lorsch & Schimmel. No. 158,110; Aug. 22.
- Picture taking and projecting and talking machines, parts thereof, etc. Picture Development Co. No. 150,692; Jan. 3.
- Pictures and cartoons. W. R. Allman. No. 158,592; Sept. 12.
- Pictures and curtain poles and taking down same, Reaching device for hanging. M. M. Passey. No. 152,478; Feb. 28.
- Pictures, Motion. Arrow Film Corporation. No. 154,868; May 16.
- Pictures, Motion. Arrow Film Corporation. No. 158,171; Aug. 29.
- Pictures, Motion. Christie Film Company. No. 150,770; Jan. 10.
- Pictures, Motion. Dependable Pictures Corporation. No. 162,492; Dec. 19.
- Pictures, Motion. Educational Films Corporation of America. Nos. 150,798-9; Jan. 10.
- Pictures, Motion. Exceptional Pictures Corporation. No. 157,943; Aug. 22.
- Pictures, Motion. C. B. C. Film Sales Corporation. No. 154,239; Apr. 11.
- Pictures, Motion-. Super Art Productions. No. 151,605; Feb. 7.
- Pictures, Motion. F. B. Warren Corporation. No. 154,414; Apr. 11.
- Pictures, passepartouts, cards, and the like, Hook corners for hanging. R. C. Kirk. No. 159,399; Sept. 26.
- Pictures, Projecting screens for moving. Mitroe Export & Import Co. No. 152,462; Feb. 28.
- Piece goods. Edward McConnell & Co. No. 155,475; May 30.
- Piece goods. M. Strauss. No. 150,980; Jan. 10.
- Piece goods. Theo. Tiedemann & Sons. No. 161,848; Nov. 21.
- Piece goods and veilings, Certain. Winship, Boit & Co. Nos. 152,299-300; Feb. 21.
- Piece goods, Certain. Heberlein & Co., A. G. No. 157,517; Aug. 8.
- Piece goods, Certain. Lewis Manufacturing Co. No. 157,128; July 25.
- Piece goods, Certain. Maguire & Co. No. 153,489; Mar. 21.
- Piece goods, Certain. H. V. T. Schill Co. No. 161,614; Nov. 14.
- Piece goods, Certain. R. Spitzer. No. 152,276; Feb. 21.
- Piece goods, Certain. Louis Walther Manufacturing Company. No. 161,659; Nov. 14.
- Piece goods, Certain named. Hohlfeld Manufacturing Company. No. 154,294; Apr. 11.
- Piece goods of silk, cotton, wool, and hairs. Bianchini, Férier. Nos. 161,411-13; Nov. 14.
- Piece goods of silk, wool, linen, cotton, and China grass. Bianchini, Férier. No. 156,795; July 11.
- Piece goods, rugs, horse clothing, wools, worsteds, yarns, and threads. J. J. & W. Wilson Limited. No. 21,100; renewed May 10, 1922.
- Piece goods, table linen, bed linen, lace curtains, etc.; Certain. American Wholesale Corporation (Baltimore Bargain House). No. 154,748; Apr. 18.
- Pieces of chewing candy commonly known as kisses. C. H. Boyst. No. 158,619; Sept. 12.
- Pies, puddings, and cakes, Filler and flavor for. Choc-Lo Food Company. No. 152,716; Mar. 7.
- Pies, puddings, custards, and cake filling, Mixture for making. Adam Int-Hout. No. 156,975; July 25.
- Pike poles, cant hooks, and certain soldering, etc., tools. Western Electric Company. No. 153,903; Mar. 28.
- Pile fabrics in the piece. Sidney Blumenthal & Co. Nos. 152,354-6; Feb. 28.
- Pile fabric in the piece. Sidney Blumenthal & Co., Inc. No. 156,626; July 11.
- Pile fabrics in the piece. Sidney Blumenthal & Co. No. 157,462; Aug. 8.
- Pile fabric in the piece. Sidney Blumenthal & Co. No. 159,660; Oct. 3.
- Pile fabrics in the piece. Sidney Blumenthal & Co. Nos. 159,661-2; Oct. 3.
- Pile fabrics in the piece. Sidney Blumenthal & Co. No. 161,684; Nov. 14.
- Pile fabrics in the piece. Salt's Textile Manufacturing Company. No. 158,291; Aug. 29.
- Pile fabrics in the piece. Salt's Textile Manufacturing Company. No. 161,284; Nov. 7.
- Pile fabrics made wholly or in part of hair or wool. Sanford Mills. No. 159,756; Oct. 3.
- Pile preparation. G. W. Kirk. No. 153,774; Mar. 28.
- Pile remedy. W-K-M Co. No. 150,654; Jan. 3.
- Pile remedy. W. H. McAbee. No. 155,756; June 6.
- Pillowcases and bed wear. Lunep Lace & Embroidery Co. No. 161,797; Nov. 21.
- Pillowcases, sheets, and bolster coverings. Converse & Company. No. 155,217; May 23.
- Pillow tubing, Cotton. Osborn Mills. No. 159,729; Oct. 3.
- Pillows. Levy Mattress Company. No. 153,482; Mar. 21.
- Pillows, cushions, mattresses, etc., Certain aromatic fillings for. Crossett-Barton Company. No. 155,659; June 6.
- Pillows, Feather. R. C. Heiler Company. No. 151,805; Feb. 14.
- Pillows, Feather. Star Bedding Co. No. 153,538; Mar. 21.
- Pills. H. C. Jarvis. No. 150,421; Jan. 3.
- Pills. M. Leprince. No. 21,926; renewed Nov. 1, 1922.
- Pills, Antibilious. J. G. Parks. No. 155,794; June 6.
- Pills, Cathartic. P. O. Nutt. No. 151,891; Feb. 14.
- Pills, Cathartic. C. B. Riker. No. 22,572; renewed Feb. 28, 1923.
- Pills having laxative and tonic properties. Trust Estate of Adolph C. Meyer. No. 161,817; Nov. 21.
- Pills, Laxative. Douglas Chemical Laboratories, Inc. No. 154,012; Apr. 4.
- Pills, Laxative. A. N. Gaebler. No. 151,483; Feb. 7.
- Pills to aid digestion. J. T. Hendershot. No. 154,047; Apr. 4.
- Pins. N. Solow. No. 155,837; June 6.
- Pins and bone rings, Dressmakers'. A. L. Clark & Co. No. 156,114; June 13.
- Pins, hooks and eyes, and snap fasteners. N. Solow. No. 162,895; Dec. 26.
- Pins, Safety. New York Merchandise Company. Nos. 158,757-8; Sept. 12.
- Pins, Safety. F. Rees. Nos. 158,785-8; Sept. 12.
- Pins, Safety. F. Rees. No. 159,068; Sept. 19.
- Pins, Safety. Samstag & Hilder Bros. No. 155,817; June 6.
- Pins, Solid-headed. N. Solow. No. 153,534; Mar. 21.
- Pins, Straight and safety. Plume & Atwood Mfg. Company. No. 151,910; Feb. 14.
- Pipe and pipe couplings. Youngstown Sheet & Tube Company. No. 151,652; Feb. 7.
- Pipe-bending tools. R. H. Henderson. No. 154,967; May 16.

Alphabetical list of trade-marks—Continued.

- Pipe clamps. J. W. Blair. No. 162,000; Nov. 28.
 Pipe, Corrugated metal culvert. Gallion Iron Works & Mfg. Co. Nos. 161,872-3; Nov. 21.
 Pipe covering for exposed piping. C. G. Woolson. No. 156,604; July 4.
 Pipe fittings and other fittings. Kuhn Brothers. No. 150,874; Jan. 10.
 Pipe fittings, iron and steel. J. Pantoskey. No. 150,924; Jan. 10.
 Pipe fittings, paper hangers, valves, nuts. James D. Rawles Company. No. 155,060; May 16.
 Pipe machines, Electric. Robbins, Gamwell & Company. No. 156,742; July 11.
 Pipe, railway spikes and bolts, etc., Welded and riveted. Koppel Industrial Car & Equipment Company. No. 156,320; June 20.
 Pipe vises and stocks and dies for pipe threading. Armstrong Manufacturing Co. No. 156,990; July 25.
 Pipes. W. M. de Pars. No. 161,452; Nov. 14.
 Pipes. A. Orlik. Nos. 162,850-1; Dec. 26.
 Pipes. A. Orlik. Nos. 162,976-8; Dec. 26.
 Pipes and cases for pipes, Smoking. Reiss-Premier Pipe Company. No. 156,491; June 20.
 Pipes and cases for pipes, Smoking. Reiss-Premier Pipe Company. No. 160,642; Oct. 24.
 Pipes and cigar and cigarette holders, Tobacco. C. Verguet. No. 155,550; May 30.
 Pipes and cigar holders. J. Bachmann. No. 156,172; June 20.
 Pipes and cigars and cigarette tubes, Tobacco. J. L. Duncan. No. 152,750; Mar. 7.
 Pipes, Briar. Simon, Vuillard & Strauss. No. 152,998; Mar. 7.
 Pipes, Cast-iron smoke. Waterloo Register Co. No. 151,060; Jan. 10.
 Pipes, cigar and cigarette holders and cases, etc. S. Gordon. No. 155,430; May 30.
 Pipes, cigar and cigarette holders, pipe cleaners, etc., Smoking. Dasco Import Co. No. 161,447; Nov. 14.
 Pipes, electrical conduits, etc., Hickeys or bending irons for. Thomas & Betts Co. No. 161,909; Nov. 21.
 Pipes for smoking. Manhattan Briar Pipe Company. No. 152,870; Mar. 7.
 Pipes, pipe fittings, etc., Metal. Gomez & Sloan, Inc. No. 156,267; June 20.
 Pipes, Product for cleaning out waste, drain, or stopped-up. C. B. Dolge Company. No. 160,173; Oct. 17.
 Pipes, Smokers'. W. W. Widoe. No. 158,144; Aug. 22.
 Pipes, Smoking. J. K. Kahookano. No. 161,515; Nov. 14.
 Pipes, Tobacco. C. D. Jonas. No. 162,790; Dec. 26.
 Pipes, Tobacco-smoking. Hirschl & Bendheim. No. 158,704; Sept. 12.
 Pistols. Foreign Manufacturers Sales Corporation. No. 152,777; Mar. 7.
 Pistols, Automatic. F. G. Riva. No. 152,969; Mar. 7.
 Pistols, revolvers, shotguns, and autoloading shotguns, Automatic. Beristain y Cia. Nos. 161,858-9; Nov. 21.
 Pistols, rifles, and combination pistols and rifles. Fiala Arms Company. No. 152,770; Mar. 7.
 Piston packing rings. Victory Ring Company. No. 160,714; Oct. 24.
 Piston rings. A. B. Chance. No. 151,378; Jan. 31.
 Piston rings. Detroit Piston Ring Company. No. 151,383; Jan. 31.
 Piston rings. Everyday Piston Ring Company. No. 160,179; Oct. 17.
 Piston rings. F. F. Fulton. No. 160,190; Oct. 17.
 Piston rings. R. M. Hallam. No. 159,892; Oct. 10.
 Piston rings. Harward Manufacturing Company. No. 160,516; Oct. 24.
 Piston rings. Keys Piston Ring Company. No. 159,627; Sept. 26.
 Piston rings. Perfection Piston Ring Company. No. 157,171; July 25.
 Piston rings. Piston Ring Company. No. 156,960; July 18.
 Piston rings. Shipley-Allen Inc. No. 160,015; Oct. 10.
 Piston rings. Universal Machine Company. No. 160,037; Oct. 10.
 Piston rings, Engine. Indiana Piston Ring Company. No. 153,208; Mar. 14.
 Piston rings, Metallic. Foster, Merriam & Company. No. 159,877; Oct. 10.
 Piston rings, tire covers, rubber and fabric patches. Harley-Davidson Motor Co. No. 154,442; Apr. 11.
 Pistons. Wright Manufacturing Company. No. 159,244; Sept. 19.
 Pistons and internal-combustion engines. Acme Manufacturing works. No. 154,212; Apr. 11.
 Pistons and wrist pins. Automotive Products Corporation. No. 161,744; Nov. 21.
 Pistons, Engine. Oversize Piston Company. No. 153,818; Mar. 28.
 Pistons for internal-combustion engines. Clark-Turner Piston Company. No. 156,645; July 11.
 Planchette boards. W. J. Haines. No. 154,959; May 16.
 Planes, Carpenters'. H. Anderson. No. 160,126; Oct. 17.
 Plant food and tonic. F. Denkwalter. No. 162,226; Dec. 12.
 Plants and switchboards, Battery lighting and electric-lighting. Worthington Pump and Machinery Corporation. No. 162,419; Dec. 12.
 Plants, bulbs, roots, and seeds. Joyfarm. No. 160,219; Oct. 17.
 Plants, shrubs, trees, cut flowers, etc. W. M. Hansen. No. 159,893; Oct. 10.
 Plaster composition. Miller Filler Co. No. 156,349; June 20.
 Plaster for walls, liquid roof cement, plastic roofing cement, etc., Patching. Rutland Fire Clay Co. No. 161,832; Nov. 21.
 Plaster for walls, Patching. Rutland Fire Clay Co. No. 159,754; Oct. 3.
 Plaster, plaster of Paris, calcined gypsum, etc., Wall. United States Gypsum Company. No. 159,777; Oct. 3.
 Plaster, Prepared. W. Zinger. No. 160,816; Oct. 24.
 Plaster, Wall. Brower and Werle. No. 153,981; Apr. 4.
 Plasters, Calcined gypsum. United States Gypsum Company. No. 156,453; June 20.
 Plasters, Calcined gypsum wall. United States Gypsum Company. No. 160,315; Oct. 17.
 Plasters, Corn. J. T. Hendershot. No. 154,291; Apr. 11.
 Plastic and granular materials, Mixers for. Blystone Manufacturing Company. No. 155,880; June 6.
 Plastic mastic material. Insulite Chemical Company. No. 152,836; Mar. 7.
 Plastic material. Compagnie Generale D'Electricite. No. 156,215; June 20.
 Plate powder. Mappin & Webb Limited. No. 155,758; June 6.
 Plates and connections for electric-lighting fixtures, etc., Wall and ceiling. Electric Outlet Company. No. 156,663; July 11.
 Plates, clamps, and rivets for machinery belting, Fasteners. Crescent Belt Fastener Company. No. 156,509; June 27.
 Plates, Tin. Melyn Tin Plate Company, Limited, The. Nos. 161,964-6; Nov. 28.
 Players, Expression-control device for pneumatic. Clark Pneumatic Action Company. No. 151,101; Jan. 24.
 Playing balls, toys, leg guards, gloves, all made of rubber sponge. Sorbo Rubber-Sponge Products. No. 151,954; Feb. 14.
 Playsuits. F. Brody & Sons Co. No. 156,109; June 13.
 Pliers. Smith and Hemenway Company. No. 156,422; June 20.
 Plow hitches, Tractor-. Gash, Stull & Company. No. 155,892; June 6.
 Plows. Deere & Company. No. 20,974; renewed Apr. 12, 1922.
 Plows. P. B. Hackley. No. 161,875; Nov. 21.
 Plows and seeders, hand garden hoe cultivators, and parts thereof. Hand garden. Bridgewater Plow Corporation. No. 154,433; Apr. 11.
 Plows, cultivators, rollers, and harrows. Wiard Plow Company. No. 22,417; renewed Jan. 31, 1923.
 Plows, plowshares, and plow parts. Moline Plow Company. No. 162,830; Dec. 26.
 Plug cut-outs, etc. G. C. Richards. No. 153,837; Mar. 28.
 Plugs, Attachment. Cutler-Hammer Mfg. Co. No. 160,849; Oct. 31.
 Plugs, Electrical, attachment, and switch. Beaver Mach. & Tool Co. No. 156,621; July 11.
 Plugs for internal-combustion engines, Breather. Craig Manufacturing Co. No. 153,145; Mar. 14.
 Plugs for repairing metal bodies, plates, boilers, tanks, etc. H. Wichmann. No. 160,738; Oct. 24.
 Plumbers' tables and vise supports. G. L. Hargey. No. 157,095; July 25.
 Plumbing and hardware articles, Certain. B. B. Specialty Co. No. 158,363; Aug. 29.
 Plumbing fixtures, Porcelain trimmings for. Mitchell-Bissell Company. No. 161,821; Nov. 21.
 Plumbing supplies and bathroom trimmings and fittings, Certain. Thomas Maddock's Sons Company. No. 159,427; Sept. 26.
 Plush goods in the piece. Fred Pearson & Company. No. 156,908; July 18.
 Plush, Silk. Sir Titus Salt, Bart. Sons & Company. No. 21,453; renewed July 12, 1922.
 Plushes, Sir Titus Salt, Bart. Sons & Company. No. 21,396; renewed June 28, 1922.
 Pneumatic machines and tools. Turbine Air Tool Company. No. 161,731; Nov. 14.
 Pocketbooks. B. Stember. No. 151,363; Jan. 31.
 Pocketknives. F. Biffar. Nos. 153,661-2; Mar. 28.
 Pocketknives. Challenge Cutlery Corporation. No. 157,891; Aug. 22.
 Pocketknives. Dollar Knife Corporation. No. 161,764; Nov. 21.
 Pocketknives and parts thereof. Remington Arms Company. No. 159,493; Sept. 26.
 Poison for animals. Northwestern Hide & Fur Co. No. 156,490; June 20.
 Poison for rats, mice, and insects. Rat Biscuit Company. No. 155,582; May 30.
 Poison for rats, mice, and insects. Rat Biscuit Company. No. 158,521; Sept. 5.
 Poison for rats, mice, gophers, and moles. W. R. Sweeney. No. 152,280; Feb. 21.
 Poison, Insect-. Exchange Orange Products Company. No. 151,469; Feb. 7.
 Poison, Rat. F. Brososky. No. 157,878; Aug. 22.
 Poison, Rat, mice, and squirrel. B. B. Reilly. No. 158,068; Aug. 22.

- Poison, Rodent. Enoz Chemical Company. No. 150,348; Jan. 3.
- Poison, Rodent. H. T. Garner. No. 152,404; Feb. 28.
- Poisoned raisins, Machine. Dupuis Chemical Company. No. 155,409; May 30.
- Poles, Cedar telephone, telegraph, and transmission-line. Western Lumber & Pole Company. No. 155,865; June 6.
- Polish. W. B. Callaway. No. 154,192; Apr. 4.
- Polish. E. Engson. No. 153,161; Mar. 14.
- Polish. C. B. Shawcross. No. 156,549; June 27.
- Polish, All kinds of boot. Naamlooze Vennootschap Maatschappij Voor Wasverwerking. No. 157,721; Aug. 15.
- Polish and cleaner for automobiles, furniture, and wood. Vinard Manufacturing Company. No. 152,535; Feb. 28.
- Polish and cleaner, Furniture. R. J. O'Brien. No. 161,374; Nov. 7.
- Polish, Automobile. Three Star Non-Rub Auto Gless Mfg. Co. No. 153,551; Mar. 21.
- Polish, Automobile and furniture. C. F. Count. No. 162,486; Dec. 19.
- Polish, Automobile and furniture. G. H. Giffert. No. 152,600; Feb. 28.
- Polish, Automobile and furniture. Independent Chemical Company. No. 161,506; Nov. 14.
- Polish, Automobile and furniture. W. H. Milleman. No. 162,316; Dec. 12.
- Polish, Automobile and furniture. H. B. Potts. No. 154,207; Apr. 4.
- Polish, Boot. Blakey's Boot Protectors, Limited. Nos. 162,475-6; Dec. 19.
- Polish, Cedar-oil. G. H. Capen. No. 154,894; May 16.
- Polish for auto bodies and furniture. C. E. Bass. No. 158,606; Sept. 12.
- Polish for automobiles, etc., and cleaner and polish for woodwork, etc. A. H. Waterman. No. 161,994; Nov. 28.
- Polish for automobiles, pianos, fine furniture, etc. World Wonder Product Company. No. 155,567; May 30.
- Polish for automobiles, pianos, furniture, safes, etc. C. G. Schmidt. No. 158,801; Sept. 12.
- Polish for furniture, automobiles, and other articles. Lafata & Borelli. No. 162,807; Dec. 26.
- Polish for furniture, automobiles, and pianos. Super Polish Co. No. 158,831; Sept. 12.
- Polish for hardwood floor, furniture, etc., Liquid. H. G. Mitchell. No. 162,319; Dec. 12.
- Polish for metal, glass, and porcelain, Cleaner. Noxon Chemical Products Co. No. 153,269; Mar. 14.
- Polish, Furniture. B. Benjamin. No. 154,879; May 16.
- Polish, Furniture. C. S. Carrill. No. 153,985; Apr. 4.
- Polish, Furniture. J. C. Coppola. No. 161,431; Nov. 14.
- Polish, Furniture. E. W. Harbrouck. No. 162,259; Dec. 12.
- Polish, Furniture. T. Johnson. No. 154,304; Apr. 11.
- Polish, Furniture. Lustrex Products Co. No. 158,736; Sept. 12.
- Polish, Furniture. L. E. Scott. No. 158,533; Sept. 5.
- Polish, Furniture. S. S. Stafford, Inc. Nos. 158,817-18; Sept. 12.
- Polish, Liquid automobile. R. E. Briggs. No. 154,884; May 16.
- Polish, metal polish, enamel cleaner, etc., Liquid stove. Rutland Fire Clay Co. No. 162,586; Dec. 19.
- Polish, Nonabrasive. I. H. Dillon. No. 162,231; Dec. 12.
- Polish, Metal. American Metal Polish Co. No. 155,597; June 6.
- Polish, Metal. American Metal Polish Co. No. 160,124; Oct. 17.
- Polish, Metal. G. F. Kearney. No. 152,843; Mar. 7.
- Polish, Metal. G. A. Luke. No. 153,234; Mar. 14.
- Polish, Metal. Mirand Polish Company. No. 154,102; Apr. 4.
- Polish, Metal. J. H. Stahr. No. 157,772; Aug. 15.
- Polish, Nail. J. S  negas. No. 152,268; Feb. 21.
- Polish, Shoe. Griffin Manufacturing Company. No. 155,698; June 6.
- Polish, Shoe. National Shoe Polish Mfg. Co. No. 155,772; June 6.
- Polish, Shoe. N. Piccoli. No. 151,907; Feb. 14.
- Polish, Stove. S. L. Black. No. 158,897; Sept. 19.
- Polish, Stove. Kitchen Products Co. No. 151,832; Feb. 14.
- Polish, Stove. B. Wallgren. No. 157,839; Aug. 15.
- Polish, Tinting nail. E. Burham, Inc. No. 161,689; Nov. 14.
- Polish, Waxed. E. L. Gates. No. 151,030; Jan. 10.
- Polishing and cleaning compounds. Silica Products Co. No. 150,569; Jan. 3.
- Polishing cloth. P. L. Bearden. No. 162,193; Dec. 12.
- Polishing cloths. Dengel & McCormack. No. 162,715; Dec. 26.
- Polishing cream for pipes used in smoking tobacco. Stearn Company. No. 161,639; Nov. 14.
- Polishing liquid for automobiles and furniture. W. H. Feeler. No. 158,947; Sept. 19.
- Polishing mitts, etc., Automobile and stove. L. Myers. No. 153,260; Mar. 14.
- Polishing or burnishing material for metal parts. H. L. Beaver. No. 162,194; Dec. 12.
- Polishing paste for metal and wood surfaces. Nu-Luster Products Co. No. 162,646; Dec. 19.
- Polishing preparation for floors, furniture, etc. Nicholson (Newcastle-on-Tyne) Limited. No. 158,760; Sept. 12.
- Polishing wheels and disks. Yorkville Manufacturing Company. No. 153,363; Mar. 14.
- Polishes acting as grease removers and cleaning materials, metal polish, etc. E. I. du Pont de Nemours and Company. No. 162,498; Dec. 19.
- Polishes and lacquers. Polistre Co. No. 161,592; Nov. 14.
- Polishes and polishing cloths, Certain. Paton, Calvert & Co. Limited. No. 162,575; Dec. 19.
- Polishes and waxes, etc. Soci  t   Anonyme des Produits du Lion Noir. No. 162,370; Dec. 12.
- Polishes, Automobile and furniture. Eureka Metal Polish Co. No. 161,769; Nov. 2.
- Polishes, enamel and waste-pipe cleaners, Liquid stove and metal. Rutland Fire Clay Co. No. 157,758; Aug. 15.
- Polishes, Furniture and automobile, black enamel, paint remover. Go-Co Compound Co. No. 154,280; Apr. 11.
- Polishes, kid cleaners, and leather dressings, Shoe. Panrex Manufacturing Co. No. 151,897; Feb. 14.
- Polishes, Metal. H & S Laboratories. No. 155,436; May 30.
- Polishes, Metal. J. W. Wease Company. No. 162,404; Dec. 12.
- Polishes, Shoe. American Products Corporation. No. 161,863; Nov. 21.
- Polishes, waxes, and preservatives, Certain. Soci  t   Anonyme des Produits du Lion Noir. No. 161,631; Nov. 14.
- Pomade. Mrs. G. W. Bendy. No. 155,617; June 6.
- Pomade and a hair-straightening preparation. S. Spencer Washington. No. 154,392; Apr. 11.
- Pomade for the treatment of the scalp. L. Taylor. No. 155,847; June 6.
- Pomade, Hair. J. H. Bishop. No. 153,664; Mar. 28.
- Pongee. Jacob Miller Sons & Co. No. 152,884; Mar. 7.
- Pongee silk, linen and cotton ducks, silk vestings, etc. D. V. H. Heldger. No. 152,424; Feb. 28.
- Pop corn. E. D. Bradshaw. No. 151,684; Feb. 14.
- Pop-corn balls. Wagner Manufacturing Company. No. 157,788; Aug. 15.
- Pop corn, Candied. C. T. Glasser. No. 160,502; Oct. 24.
- Pop-corn crisps. G. Rousis. No. 152,974; Mar. 7.
- Pop corn, Shelled. Albert Dickinson Company. No. 22,343; renewed Jan. 17, 1923.
- Porcelain insulating devices. Square D Company. No. 158,544; Sept. 5.
- Porcelain ware, Certain articles of laboratory. Coors Porcelain Company. No. 155,146; May 16.
- Pork meats and lard. C. Perceval. No. 22,743; renewed Apr. 4, 1923.
- Pork products and lard, Dry salt. Jacob Dold Packing Co. No. 162,724; Dec. 26.
- Pork products, Smoked. Rohe & Brother. No. 160,804; Oct. 24.
- Porti  res, silk drapery cloths, and curtains, Summer. J. Derk. No. 152,149; Feb. 21.
- Post card. Arthur W. Stedman, Inc. No. 153,539; Mar. 21.
- Post-hole diggers. Henry Disston & Sons, Incorporated. No. 154,438; Apr. 11.
- Postmarking, stamping, and counting machines. Pitney-Bowes Postage Meter Co. No. 161,717; Nov. 14.
- Potash salt of the cyan-mercury-salicylic acid. J. D. Riedel Aktiengesellschaft. No. 151,416; Feb. 7.
- Potato chips. C. Shasteen. No. 159,097; Sept. 19.
- Potato chips. Walton & Hoffman. No. 152,537; Feb. 28.
- Potato chips and pop corn. W. L. Gordon. No. 162,156; Dec. 5.
- Potatoes. J. P. Milloglav. No. 154,797; May 9.
- Potatoes. O. K. Story & Company. No. 158,762; Sept. 12.
- Potatoes for table and seed purposes, Fresh. D. F. Getchell. No. 152,406; Feb. 28.
- Potatoes, Fresh. Gainesville Potato Growers Co-Operative Association, Inc. No. 160,495; Oct. 24.
- Potatoes, onions, apples, etc., in their natural state. A. Rosenblum. No. 151,928; Feb. 14.
- Potatoes, Seed. S. A. and J. L. Colson, administratrices of the estate of Edwin Colson. No. 160,420; Oct. 24.
- Potatoes, Seed. J. H. Kandle. No. 160,545; Oct. 24.
- Potential detectors. Westinghouse Lamp Company. No. 153,350; Mar. 14.
- Pottery and casting plaster. United States Gypsum Company. No. 157,438; Aug. 1.
- Pottery, Handmade. W. Moorcroft Limited. No. 150,690; Jan. 3.
- Pottery, Handmade. W. Moorcroft Limited. No. 153,496; Mar. 21.
- Pottery, Ornamental and ornamented. Charles Mullis Manufacturing Company. No. 152,466; Feb. 28.
- Pottery ware. Rookwood Pottery Company. Nos. 155,517-19; May 30.
- Pottery ware. Wheatley Pottery Company. No. 155,560; May 30.
- Poultices and plasters for the treatment of boils, burns, etc. O. F. Louis. No. 158,251; Aug. 29.
- Poultry and eggs, Dressed. C. C. Wright. No. 157,800; Aug. 15.
- Poultry and game birds, prepared or cooked spaghetti, Welsh rabbit, etc., Dressed, packed, and prepared. A. Silz, Inc. No. 162,893; Dec. 26.
- Poultry, Compound for. I. E. Radcliff. No. 153,831; Mar. 28.

Alphabetical list of trade-marks—Continued.

- Poultry, Dressed. Missouri Egg & Poultry Company. Nos. 151,878-9; Feb. 14.
- Poultry, Dressed. Topeka Packing Co. Nos. 153,948-9; Mar. 28.
- Poultry, eggs, and baby chicks, Live. American Poultry Farms. No. 151,659; Feb. 14.
- Poultry, eggs, and butter, Dressed. T. Owens. No. 155,166; May 16.
- Poultry, fresh and preserved eggs, Live and dressed. Miller-Rose Co. No. 161,895; Nov. 21.
- Poultry, Live. P. Sciarra. No. 156,548; June 27.
- Poultry, Live and dressed. W. Lukert. No. 151,534; Feb. 7.
- Poultry remedy for roup, etc. E. S. Stickel. No. 155,538; May 30.
- Powder and ammunition containing the same. Western Cartridge Company. No. 158,858; Sept. 12.
- Powder and perfumes, Face. Lay Rité Laboratory. No. 160,901; Oct. 31.
- Powder and rouge, Compact. F. R. Arnold & Co. Nos. 150,224-5; Jan. 3.
- Powder and rouge compacts. Harriet Hubbard Ayer. No. 150,231; Jan. 3.
- Powder and rouge compacts. Harriet Hubbard Ayer. No. 150,234; Jan. 3.
- Powder and wrinkle cream, Face. Usit Manufacturing Company of America. No. 153,039; Mar. 7.
- Powder, Baking. Royal Baking Powder Company. No. 150,549; Jan. 3.
- Powder, Baking. Wilkes & Seaman Co. No. 151,642; Feb. 7.
- Powder, cold cream, vanishing cream, rouge, Face. Jarmelsh Jane Corporation. No. 155,729; June 6.
- Powder, Complexion. C. R. Boyd. No. 150,259; Jan. 3.
- Powder, dentifrices, beauty cream, perfumes, Hygienic. Central-Spécialités Societe Anonyme. No. 154,901; May 16.
- Powder, Face. F. R. Arnold & Co. No. 150,223; Jan. 3.
- Powder, Face. E. Burnham, Inc. No. 157,312; Aug. 1.
- Powder, Face. E. Burnham, Inc. No. 159,830; Oct. 10.
- Powder, Face. M. Gray. No. 155,434; May 30.
- Powder, Face. F. N. Lewis. No. 162,163; Dec. 5.
- Powder, Face. M. Robins. No. 151,584; Feb. 7.
- Powder, Foot. B. Marsallse. No. 154,324; Apr. 11.
- Powder, Foot. C. E. Rogers. No. 160,957; Oct. 31.
- Powder, Foot. I. E. Tuttle. No. 151,056; Jan. 10.
- Powder for affections of the skin. R. Flores. No. 152,170; Feb. 21.
- Powder for cleaning white shoes. C. V. Wood. No. 162,418; Dec. 12.
- Powder for destroying beetles and cockroaches. H. Cook. No. 153,686; Mar. 28.
- Powder for general household cleaning purposes. J. N. Hoyt. No. 151,811; Feb. 14.
- Powder for the relief of inflamed tonsils, Dry. H. W. Shryock. No. 150,568; Jan. 3.
- Powder for treatment of eczema. F. Seligmann. No. 161,293; Nov. 7.
- Powder, Liquid face. J. G. Brown. No. 152,125; Feb. 21.
- Powder, Liquid face. E. Burnham, Inc. No. 159,668; Oct. 3.
- Powder, Liquid face. Lam-Té Manufacturing Co. No. 154,308; Apr. 11.
- Powder, Make-up. K. M. Lublin. No. 156,333; June 20.
- Powder, Medicated foot. P. L. De Weese. No. 152,150; Feb. 21.
- Powder, Medicinal. M. C. Kopf. No. 155,737; June 6.
- Powder, Mopping. M. J. Davis. No. 157,663; Aug. 15.
- Powder, Perlox face. Co-Operative Drug Company. No. 151,107; Jan. 24.
- Powder preparation for use as a body deodorant. O. S. Rimer. No. 160,955; Oct. 31.
- Powder puffs. M. A. Butler. No. 154,892; May 16.
- Powder puffs. J. J. Cosin. No. 151,025; Jan. 10.
- Powder puffs. J. J. Cosin. Nos. 151,108-9; Jan. 24.
- Powder puffs. M. Crupain. No. 153,690; Mar. 28.
- Powder puffs. M. Crupain. No. 156,223; June 20.
- Powder puffs. W. Eliowitz. No. 160,465; Oct. 24.
- Powder puffs. E. Fuller. No. 160,493; Oct. 24.
- Powder puffs. S. Glemby's Sons Co. Nos. 160,503-4; Oct. 24.
- Powder puffs. A. Q. Hodgson. No. 160,527; Oct. 24.
- Powder puffs. Keiter-Try Manufacturing Company. No. 151,153; Jan. 24.
- Powder puffs. Marcus & Smith. Nos. 151,186-9; Jan. 24.
- Powder puffs. Marcus & Smith. No. 152,456; Feb. 28.
- Powder puffs. Marcus & Smith. No. 160,344; Oct. 17.
- Powder puffs. Morris, Mann & Reilly. Nos. 151,196-7; Jan. 24.
- Powder puffs. New York Merchandise Company. No. 151,200; Jan. 24.
- Powder puffs. Penn Drug Spec. Co. No. 161,975; Nov. 28.
- Powder puffs. Rieser Company. No. 154,139; Apr. 4.
- Powder puffs. Julius Schmid, Inc. No. 154,148; Apr. 4.
- Powder puffs. I. J. Tetlow. Nos. 150,984-5; Jan. 10.
- Powder puffs. I. J. Tetlow. No. 151,255; Jan. 24.
- Powder puffs. F. Uhry. No. 155,852; June 6.
- Powder puffs. Valmont Mfg. Co. No. 155,548; May 30.
- Powder puffs. Western Bottle Manufacturing Company. No. 160,722; Oct. 24.
- Powder, rouge, etc., Talcum. Cheramy, Inc. No. 155,640; June 6.
- Powder, rouge, toilet waters, skin creams and lotions, Face. Mrs. F. Thurman. No. 151,608; Feb. 7.
- Powder, Talcum. Bauer & Black. No. 152,680; Mar. 7.
- Powder, Talcum. Bauer & Black. No. 156,173; June 20.
- Powder, Talcum. Bauer & Black. No. 157,457; Aug. 8.
- Powder, Talcum. E. Burnham, Inc. No. 159,824; Oct. 10.
- Powder, Talcum. Nyal Company. No. 159,972; Oct. 10.
- Powder, Talcum. Samstag & Hilder Bros. No. 152,264; Feb. 21.
- Powder, Talcum. Talcum Puff Co. No. 153,018; Mar. 7.
- Powder, Toilet. Chloreate Company. No. 158,916; Sept. 19.
- Powder, Toilet. Comfort Powder Co. Nos. 155,649-50; June 6.
- Powder, Toilet. Stimule Company. No. 159,769; Oct. 3.
- Powder, Toilet and baby. C. Niederer. No. 153,807; Mar. 28.
- Powder, Toilet, (face.) Marie Djang-lure Co. No. 152,308; Feb. 21.
- Powder, Tooth. Prophylactic Tooth Powder, Inc. No. 159,064; Sept. 19.
- Powder, Tooth. T. Sands. No. 152,265; Feb. 21.
- Powder, Tooth. Scientific Research Laboratories. No. 158,297; Aug. 29.
- Powder used as an insect destroyer. Julius Kalish, Inc. No. 151,520; Feb. 7.
- Powder, Washing. R. L. Wilson. No. 157,297; July 25.
- Powders and compacts, Toilet. A. Bourjois & Co. No. 157,463; Aug. 8.
- Powders and creams, rouges, skin and toilet waters, etc., Face. F. M. Griffith. No. 161,151; Nov. 7.
- Powders and perfume, Face and talcum. Andrew Jergens Company. No. 153,647; Mar. 28.
- Powders and toilet creams, Tooth. Simmons & Hammond Manufacturing Co. No. 156,420; June 20.
- Powders, cold, massage, and vanishing creams, perfumes, Face. Far East Products Co. No. 151,472; Feb. 7.
- Powders, corn cure, cough drops, tooth cordial, pills and inhalers, Headache. A. L. Beck. No. 20,450; renewed Dec. 8, 1921.
- Powders, Face. F. J. de S. Coty. No. 151,463; Feb. 7.
- Powders, face and cold creams, etc., Face. Eutholia Mfg. Co. No. 150,807; Jan. 10.
- Powders, Face, talcum, and toilet. V. Vivaudon, Inc. No. 151,624; Feb. 7.
- Powders, Headache. Fox Drug Co. No. 157,951; Aug. 22.
- Powders, nitrated (gun) cotton, dynamite detonators, etc., Explosive. Poudreries Reunies de Belgique Societe Anonyme. No. 158,062; Aug. 22.
- Powders or fillers, Whipping. Joe Lowe Co. No. 159,419; Sept. 26.
- Powders, perfumes, etc., Toilet and sachet. A. Bourjois & Co. No. 161,077; Nov. 7.
- Powders, Washing. Royal Lemon Products Co. No. 162,584; Dec. 19.
- Power machinery. Westinghouse Electric & Manufacturing Company. No. 153,951; Mar. 28.
- Precious metal, Certain articles plated with. Stanley & Aylward, Limited. No. 159,226; Sept. 19.
- Precious-metal ware, Certain. American Wholesale Corporation (Baltimore Bargain House). No. 155,364; May 30.
- Precious-metal ware, Certain. Franklin Silver Plate Company. No. 151,482; Feb. 7.
- Precious-metal ware, Certain articles of. Mappin & Webb Limited. No. 155,479; May 30.
- Preparation for all skin diseases, Liquid. E. Snipes. No. 156,425; June 20.
- Preparation for alleviation of rheumatism, Liquid. T. Long. No. 151,532; Feb. 7.
- Preparation for application on face, and designed to remove wrinkles, etc., Chemical. Weichsel Laboratories. No. 158,317; Aug. 29.
- Preparation for baldness. H. C. Hosick. No. 160,885; Oct. 31.
- Preparation for catarrh, etc. C. M. Shipman. No. 150,566; Jan. 3.
- Preparation for causing narrowness of blood vessels. Société Chimique des Usines du Rhone. No. 153,861; Mar. 28.
- Preparation for certain named ailments. S. P. Hite Company. No. 150,400; Jan. 3.
- Preparation for certain named purposes. Columbian Box Co. No. 153,634; Mar. 28.
- Preparation for certain named purposes. J. H. Nickodemus. No. 153,806; Mar. 28.
- Preparation for certain named purposes. J. T. Nulty. No. 154,116; Apr. 4.
- Preparation for certain named purposes. J. Politis. No. 154,130; Apr. 4.
- Preparation for certain named uses. G. J. Novak. No. 151,566; Feb. 7.
- Preparation for certain purposes. W. E. Benson. No. 153,660; Mar. 28.
- Preparation for certain purposes. J. Eisenberg. No. 155,677; June 6.
- Preparation for certain uses, Liquid. H. Harden. No. 157,972; Aug. 22.
- Preparation for chapped hands. E. Burnham, Inc. No. 159,829; Oct. 10.
- Preparation for cleaning and polishing automobiles, furniture, woodwork, and floors. Bradford-Brown Company. No. 161,350; Nov. 7.

Alphabetical list of trade-marks—Continued.

- Preparation for cleaning and removing dirt, grit, etc., from glass and other glazed surfaces. Skybryte Company. No. 159,525; Sept. 26.
- Preparation for cleaning and softening the skin. Dermatological Laboratories. No. 159,689; Oct. 3.
- Preparation for cleaning, etc., varnished surfaces. W. H. Whitmore. No. 154,183; Apr. 4.
- Preparation for cleaning furniture, automobiles, etc., Liquid. C. B. Wenner. No. 162,614; Dec. 19.
- Preparation for cleaning rugs, carpets, etc., Liquid. F. W. Hogue. No. 162,519; Dec. 19.
- Preparation for cleaning the hands. S. J. Danjean. No. 152,735; Mar. 7.
- Preparation for coloring gray and faded hair. Kendall Medicine Company. No. 161,703; Nov. 14.
- Preparation for corns, bunions, and callouses. A. Overton. No. 155,347; May 23.
- Preparation for coughs, colds, etc. J. A. Coe. No. 156,210; June 20.
- Preparation for crow's-feet. E. Burnham, Inc. No. 159,669; Oct. 3.
- Preparation for cuts, bruises, etc., External. J. Good-sight. No. 154,282; Apr. 11.
- Preparation for energizing gasoline, Liquid. 1 in 5 Manufacturing Co. No. 158,990; Sept. 19.
- Preparation for excessive perspiration. Chase Chemical Company. No. 152,710; Mar. 7.
- Preparation for exterminating vermin on the human body and hair. Homeaid Products Co. No. 150,409; Jan. 3.
- Preparation for eye brows and lashes. A. T. Wilson. No. 152,008; Feb. 14.
- Preparation for gonorrhea. Tomado Goshi Kaisha. No. 151,519; Feb. 7.
- Preparation for gout. Société Chimique des Usines du Rhone. No. 153,863; Mar. 28.
- Preparation for growing hair. E. M. Barnett. No. 160,829; Oct. 31.
- Preparation for hair and scalp, Liquid. T. G. Soffos. No. 153,867; Mar. 28.
- Preparation for hay fevers, asthma, colds, and coughs. M. Pollatsek. No. 155,800; June 6.
- Preparation for indigestion and stomach trouble. J. Wood. No. 157,404; Aug. 1.
- Preparation for preventing corrosion of the terminals of storage batteries. G. F. Hilton. No. 156,297; June 20.
- Preparation for preventing perspiration and removing the odor thereof. B. & P. Company. No. 160,828; Oct. 31.
- Preparation for producing a glossy effect upon the hair. V. Vivaudou, Inc. No. 159,236; Sept. 19.
- Preparation for producing permanent waves in the hair. Oily. F. R. Marcel. Nos. 152,223-4; Feb. 21.
- Preparation for protection against moths, Liquid. P. B. Littlehale. No. 161,208; Nov. 7.
- Preparation for relief of pain. B. Acosta, Jr. No. 150,210; Jan. 3.
- Preparation for relief of sunburn. A. W. Cook. No. 154,259; Apr. 11.
- Preparation for removal of paints, varnishes, etc. Sherwin-Williams Company. No. 151,233; Jan. 24.
- Preparation for removing carbon from the cylinders of internal-combustion engines. W. H. Moulton. No. 154,339; Apr. 11.
- Preparation for removing dirt and stains from the hands, etc. J. E. R. Hasbrouck. No. 157,679; Aug. 15.
- Preparation for removing paint, etc., from floors, wood-work, etc., for cleaning brushes, and removing wall paper. Trinity Chemical Corporation. No. 162,392; Dec. 12.
- Preparation for removing paint or varnish. Wilson-Imperial Company. No. 153,953; Mar. 28.
- Preparation for removing superfluous hairs from the skin. A. Mitchell. No. 154,334; Apr. 11.
- Preparation for rheumatism, lumbago, neuritis, etc. C. H. Moore. No. 155,767; June 6.
- Preparation for softening water. Compound Injector & Specialty Co. No. 152,311; Feb. 21.
- Preparation for starting internal-combustion engines. Howard & Sons Limited. No. 153,755; Mar. 28.
- Preparation for the aid of digestion. W. B. Jaques Drug Company. No. 153,766; Mar. 28.
- Preparation for the extermination of vermin. Zo-No Company. No. 156,481; June 20.
- Preparation for the hair. Koken Companies. No. 161,193; Nov. 7.
- Preparation for the hair to promote the growth and as a cure for dandruff. T. Esposito. No. 161,131; Nov. 7.
- Preparation for the relief of bronchial asthma, hay fever, colds, etc. J. B. Shaffer. No. 157,385; Aug. 1.
- Preparation for the relief of dyspepsia, indigestion, gas, etc. W. M. Davis. No. 157,257; July 25.
- Preparation for the relief of foot troubles. Kingsley Medicine Shop. No. 162,161; Dec. 5.
- Preparation for the removal of superfluous hair. N. Parker. No. 151,570; Feb. 7.
- Preparation for the removal of superfluous hair. A. J. Richardson. No. 158,072; Aug. 22.
- Preparation for the scalp used as a tonic and for promoting the growth of hair. M. L. Whitfield. No. 158,143; Aug. 22.
- Preparations for the teeth and mouth. Western Dental Mfg. Company. No. 160,327; Oct. 17.
- Preparation for the throat and lungs. F. Carlson. No. 157,474; Aug. 8.
- Preparation for the treatment and prevention of venereal diseases. U. S. Prophylactic Co. No. 151,274; Jan. 24.
- Preparation for the treatment of asthma. N. Hoffman. No. 161,016; Oct. 31.
- Preparation for the treatment of asthma. A. J. Pater. No. 151,901; Feb. 14.
- Preparation for the treatment of blood diseases. A. Bes-son. No. 158,613; Sept. 12.
- Preparation for the treatment of cancer. M. Alberico. No. 160,819; Oct. 31.
- Preparation for the treatment of coughs, colds, grip, etc. Gilbert Bros. & Co. No. 157,334; Aug. 1.
- Preparations for the treatment of diseases of the liver. Cholsanin A. G. No. 157,317; Aug. 1.
- Preparation for the treatment of eczema. K-H. Co. No. 154,076; Apr. 4.
- Preparation for the treatment of gallstones and other diseases of the kidneys, liver, and bowels. J. Lohmann. No. 161,211; Nov. 7.
- Preparation for the treatment of influenza, lumbago, etc. Colton & Collins, Inc. No. 158,202; Aug. 29.
- Preparation for the treatment of piles. R. Palmer. No. 155,906; June 6.
- Preparation for the treatment of pyorrhea. G. I. Branower. No. 157,875; Aug. 22.
- Preparation for the treatment of pyorrhea. Fugo Chemical Company. No. 156,254; June 20.
- Preparation for treatment of pyorrhea. E. F. Greer. No. 151,495; Feb. 7.
- Preparation for the treatment of pyorrhea. J. H. Mowery. No. 152,238; Feb. 21.
- Preparation for the treatment of pyorrhea. Pyo-Coda Laboratories. No. 159,484; Sept. 26.
- Preparation for the treatment of rheumatism. H. Adams. No. 156,154; June 20.
- Preparation for the treatment of rheumatism, gout, sciatica, etc. W. H. Hughes. No. 156,305; June 20.
- Preparation for the treatment of rheumatism, neuralgia, etc. C. H. Matson. No. 158,017; Aug. 22.
- Preparation for the treatment of scrofula. Rowlett & Outland Medicine Co. No. 161,278; Nov. 7.
- Preparation for the treatment of skin diseases. A. H. Tripi. No. 156,968; July 18.
- Preparation for the treatment of sores, boils, chapped hands. P. F. Dhinaut. No. 161,115; Nov. 7.
- Preparation for the treatment of stomach, bowels, kidney, and heart trouble. C. Dilla. No. 161,116; Nov. 7.
- Preparation for the treatment of the hair and scalp. G. I. Sampson. No. 160,959; Oct. 31.
- Preparation for the treatment of the scalp and growth of hair. J. Vajda. No. 157,398; Aug. 1.
- Preparation for the treatment of tuberculosis. H. G. Bishop. No. 156,185; June 20.
- Preparation for the treatment of whooping cough, croup, hoarseness, and bronchitis, Liquid. W. J. Galloway. No. 157,258; July 25.
- Preparation for treating and relieving pain to the gums, Liquid. B. L. Palleyesch. No. 158,051; Aug. 22.
- Preparation for treating rheumatism and purifying the blood. L. G. Jolley & Son. No. 157,269; July 25.
- Preparation for treatment of asthma. C. Leavengood. No. 157,354; Aug. 1.
- Preparation for treatment of bots, colic, distemper, etc. No. 157,349; Aug. 1.
- Preparation for treatment of colic and impaction in horses. S. Owen. No. 150,508; Jan. 3.
- Preparation for treatment of coughs and bronchial disorders. R. J. Strassenburgh Company. No. 155,357; May 23.
- Preparation for treatment of dandruff and the scalp. R. T. Weese. No. 150,643; Jan. 3.
- Preparation for treatment of diseases peculiar to females. F. J. Hart. No. 150,397; Jan. 3.
- Preparation for treatment of foot ailments. I. H. Katoff. D. S. Wilson. No. 157,610; Aug. 8.
- Preparation for treatment of gallstones, etc. Stevens Remedy Company Inc. No. 151,053; Jan. 10.
- Preparation for treatment of goiters. W. H. Arbour. No. 161,044; Nov. 7.
- Preparation for treatment of kidney, liver, and bladder trouble. E. L. Patch Company. No. 153,820; Mar. 28.
- Preparation for treatment of leucorrhea and cleansing the entire vagina. A. Petrie. No. 155,797; June 6.
- Preparation for treatment of lung trouble. J. B. Nichols. No. 161,245; Nov. 7.
- Preparation for treatment of nervousness, etc. W. A. Hooks. No. 152,194; Feb. 21.
- Preparation for treatment of piles, leucorrhea, burns, eczema, etc. J. B. Chancey. No. 161,095; Nov. 7.
- Preparation for treatment of rheumatism, gout, etc. H. F. Machunze. No. 160,912; Oct. 31.
- Preparation for treatment of rheumatism, stomach trouble, etc. H. A. Siegrist. No. 155,834; June 6.
- Preparation for treatment of the skin and face powder. C. C. Cole. No. 152,134; Feb. 21.
- Preparation for treatment of ulcerous wounds. F. M. de Morales. No. 158,425; Sept. 5.
- Preparation for ulcerated gums and infections of the mouth. J. D. Watterson. No. 156,463; June 20.
- Preparation for use as a mouth cleanser. W. H. Graves. No. 152,186; Feb. 21.

Alphabetical list of trade-marks—Continued.

- Preparation for use in making face powder adhere to the skin, Liquid. Complexion Products Co. No. 157,481; Aug. 8.
- Preparation for use in the treatment of foot troubles. Scholl Manufacturing Company. Nos. 158,584-5; Sept. 5.
- Preparation for use in treatment of rheumatism, gout, lumbago. F. J. Volkmar. No. 150,636; Jan. 3.
- Preparation for use internally in the treatment of certain named ailments. J. R. Kirkpatrick, Jr. No. 151,522; Feb. 7.
- Preparation for venereal diseases. Lowenwerke A. G. No. 152,866; Mar. 7.
- Preparation in salve form for influenza and a preparation in tablet form for colds. A. G. Barnes. No. 159,655; Oct. 3.
- Preparation of the pancreas gland designed for internal use in the treatment of pancreatic insufficiency. Fairchild Bros. & Foster. No. 161,133; Nov. 7.
- Preparation sold in capsules for the treatment of headaches. A. G. Roy. No. 150,548; Jan. 3.
- Preparation to clean and polish lenses (eyeglasses). O. L. Wunder Company. No. 155,875; June 6.
- Preparation to promote the growth of hair and for the treatment of dandruff, etc. Velvotone Chemical Co. No. 159,140; Sept. 19.
- Preparation to reduce and deodorize perspiration, Liquid. Odri Company. No. 152,247; Feb. 21.
- Preparation used in the treatment of indigestion. Mary Hatchet & Jenkins. No. 157,261; July 25.
- Preparation used in the treatment of rheumatism. J. W. Sewell. No. 151,599; Feb. 7.
- Preparation used in the treatment of sore feet. Fixem Mfg Co. No. 161,137; Nov. 7.
- Preparation used in the treatment of the eyes. H. A. Hansen. No. 155,703; June 6.
- Preparation used externally for certain purposes. J. Gesteira. No. 156,260; June 20.
- Preparation used externally for pneumonia, throat, and lung affections. J. T. Simpson. No. 153,855; Mar. 28.
- Preparation used for gargling. P. J. Schlichtmann. No. 160,961; Oct. 31.
- Preparation used for shaving cream and chapped skin. P. Amsterdam. No. 159,797; Oct. 10.
- Preparation used in oil scalp treatments. Hot. E. Burnham, Inc. No. 159,671; Oct. 3.
- Preparation used in sterilizing infected dentine. Kings Specialty Co. No. 150,436; Jan. 3.
- Preparation used internally for coughs, colds, and headaches. L. Gawurin. No. 151,485; Feb. 7.
- Preparations, Bactericide and antiseptic. Vereinigte Chininfabriken Zimmer & Co., Gesellschaft mit beschränkter Haftung. Nos. 158,313-4; Aug. 29.
- Preparations, Certain. Du Pont-Young Corporation. No. 151,466; Feb. 7.
- Preparations for certain purposes. A. T. Hargest. No. 156,285; June 20.
- Preparations for certain purposes. Dr. J. E. Strecker. No. 155,845; June 6.
- Preparations for distoma. Chinoin gyógyszer és vegyszeti termékek gyára r. t. (Dr. Kereszty es Dr. Wolf). No. 151,711; Feb. 14.
- Preparations for promoting the growth of the hair. J. A. Neal. No. 150,494; Jan. 3.
- Preparations for the treatment of coughs and colds. G. I. Branower. No. 157,874; Aug. 22.
- Preparations for treatment of piles, rickets, or St. Vitus's dance, etc. M. O. Milhoan. No. 155,489; May 30.
- Preparations or medicines, Certain. Heneph Co. No. 155,708; June 6.
- Preparations or medicines for certain purposes. Bayer Co. No. 155,612; June 6.
- Preparations used in the treatment of tuberculosis and eyes. F. P. Catania. No. 150,282; Jan. 3.
- Prescriptions, Non-alcoholic vehicle or base for use by pharmacists in compounding. United Drug Company. No. 154,169; Apr. 4.
- Preserves and cheese. Pittsburgh Importing & Manufacturing Co. No. 159,988; Oct. 10.
- Preserves, jellies, jams, etc., Fruit. F. B. Nordman, Jr. No. 162,846; Dec. 26.
- Press cloth for use in oil-seed presses, Reenforced. F. T. Parker. No. 155,504; May 30.
- Pressure regulators, strainers, expansion joints, and feed-water-purifying apparatus. Griscorn-Russell Company. No. 156,283; June 20.
- Pretzels. W. J. Bristol. No. 159,815; Oct. 10.
- Pretzels, ice-cream cones, and cake. Sandler Bros. Baking Co. No. 162,883; Dec. 26.
- Preventive for venereal diseases. M. Twersky. No. 150,629; Jan. 3.
- Priming ether. Home Products Inc. No. 150,408; Jan. 3.
- Printed products—namely, journals, music, insignia, and letters. Drei Masken Verlag A.-G. No. 159,336; Sept. 26.
- Printers' rollers, Preparation for washing. F. P. Nichols & Son. No. 154,111; Apr. 4.
- Printing machines and parts of same, paper-cutting machines, etc. Omnigraph Company. No. 156,722; July 11.
- Printing machines and parts thereof. Printator, G. m. b. H. No. 156,735; July 11.
- Printing on indigo and vat dyes, Chemicals used in. Rohm & Haas Company. No. 153,839; Mar. 28.
- Printing presses. Miehle Printing Press & Manufacturing Company. No. 158,263; Aug. 29.
- Printing presses, Electric heaters for. R. Nitch. No. 158,509; Sept. 5.
- Prints, drills, and denims in the piece. J. L. Stifel & Sons. No. 154,395; Apr. 11.
- Prints, pictures, and illustrations. R. John. No. 158,996; Sept. 19.
- Product used for the treatment of skin disease. Mallinckrodt Chemical Works. No. 162,302; Dec. 12.
- Programs, invitations, calendars, Covers for embossed and illuminated dance. Hugh Stephens Printing & Stationery Company. No. 156,530; June 27.
- Projectiles, firearms, and equipments. Hadfields Limited. No. 153,192; Mar. 14.
- Prophylactic preparations. J. Pesicchl. No. 155,348; May 23.
- Prophylactics. Lowy Laboratories, Inc. No. 152,218; Feb. 21.
- Proprietary medicine for use in treatment of sterility in women. H. W. Elders. No. 158,210; Aug. 29.
- Prunes, Dried and partially-dried. H. N. Wood. No. 154,817; May 9.
- Publication. Doyle-Kidd D. G. Co. No. 150,337; Jan. 3.
- Publication. General Chemical Company. No. 155,232; May 23.
- Publication. Hispanic American Publishing Co. No. 155,242; May 23.
- Publication. Psycho-Occult Institute of Business Success. No. 162,341; Dec. 12.
- Publication and also yearly diary, Serial house-organ. Lucey Manufacturing Corporation. No. 157,537; Aug. 8.
- Publication, Annual. V. H. Brownscombe. No. 158,907; Sept. 19.
- Publication, Bimonthly. C. Nast. No. 157,547; Aug. 8.
- Publication for dressmakers' use. Designer Publishing Company. No. 157,488; Aug. 8.
- Publication, Monthly. F. D. Adams. No. 162,463; Dec. 19.
- Publication, Monthly. Bodine Electric Company. No. 153,412; Mar. 21.
- Publication, Monthly. Brewster Publications, Inc. No. 158,904; Sept. 19.
- Publication, Monthly. Bunting Publications, Inc. Nos. 158,624-6; Sept. 12.
- Publication, Monthly. Buzza Company. No. 158,910; Sept. 19.
- Publication, Monthly. Central Bond & Mortgage Co. No. 152,021; Feb. 14.
- Publication, Monthly. Dog World Publishing Co. No. 162,494; Dec. 19.
- Publication, Monthly. W. H. Fawcett. No. 158,662; Sept. 12.
- Publication, Monthly. Greek Confectioner Publishing Co. No. 162,256; Dec. 12.
- Publication, Monthly. Glass Container Association of America. No. 162,507; Dec. 19.
- Publication, Monthly. Hawkins Mortgage Co. No. 158,977; Sept. 19.
- Publication, Monthly. International Magazine Corporation. No. 162,275; Dec. 12.
- Publication, Monthly. E. Lundeen. No. 153,484; Mar. 21.
- Publication, Monthly. National Exchange Club. No. 159,045; Sept. 19.
- Publication, Monthly. James F. Newcomb & Co. No. 159,461; Sept. 26.
- Publication, Monthly. Norwick Pharmacal Company. No. 157,726; Aug. 15.
- Publication, Monthly. Popular Radio, Inc. No. 158,775; Sept. 12.
- Publication, Monthly. Poster Advertising Association. No. 158,776; Sept. 12.
- Publication, Monthly. Skookum Packers Association. No. 162,369; Dec. 12.
- Publication, Monthly. H. F. Stoll. No. 157,774; Aug. 15.
- Publication, Monthly. W. O. Stone. No. 157,776; Aug. 15.
- Publication, Monthly. United Electric Company. No. 150,631; Jan. 3.
- Publication, Monthly. F. B. Vogel. No. 162,605; Dec. 19.
- Publication, Monthly magazine. Magazine Corporation. No. 151,859; Feb. 14.
- Publication, Monthly trade. Monroe Tire Corporation. No. 155,020; May 16.
- Publication, Monthly trade. Monroe Tire Corporation. No. 162,831; Dec. 26.
- Publication, newspaper, magazine, or report, Daily and weekly. Allen E. Beals Corporation. No. 150,244; Jan. 3.
- Publication, Page or department in a daily. Commercial Newspaper Company. No. 151,717; Feb. 14.
- Publication, Periodic. Halliwell & Patton Publishing Co. No. 155,237; May 23.
- Publication, Periodical. W. W. Crook. No. 153,432; Mar. 21.
- Publication, Quarterly. Delta Sigma Phi Fraternity. No. 157,664; Aug. 15.
- Publication, Trade. Cardine Harvest Hat Company. No. 162,210; Dec. 12.
- Publication, Weekly. Allen-Nugent Co. No. 153,391; Mar. 21.

Alphabetical list of trade-marks—Continued.

- Publication, Weekly. Dearborn Publishing Company. No. 157,487; Aug. 8.
- Publication, Weekly. Dearborn Publishing Company. No. 159,325; Sept. 26.
- Publication, Weekly. R. B. Hennessy. No. 162,263; Dec. 12.
- Publication, Weekly. Jones & Baker. No. 162,522; Dec. 19.
- Publication, Weekly. Kensington Bulletin. No. 151,691; Feb. 14.
- Publication, Weekly. W. M. Walsh. No. 151,997; Feb. 14.
- Publications. Delta Sigma Phi Fraternity. No. 155,219; May 23.
- Publications, Biweekly. The "Associates." No. 162,186; Dec. 12.
- Publications, Certain. Bernard Ulmann Co. No. 162,394; Dec. 12.
- Publications, Certain printed. H. W. Geigen. No. 162,249; Dec. 12.
- Publications issued monthly. Printed. Engineering Magazine Company. No. 150,347; Jan. 3.
- Publications, Monthly. E. H. Ahrens. No. 155,187; May 23.
- Publications (Monthly). American Wholesale Corporation (Baltimore Bargain House). No. 155,194; May 23.
- Publications, Monthly. Readers' Publishing Corporation. No. 150,949; Jan. 10.
- Publications, Monthly. Charles Scribner's Sons. No. 159,093; Sept. 19.
- Publications, Monthly. Shea Smith & Co. No. 158,813; Sept. 12.
- Publications, Monthly. B. Wilk. No. 150,647; Jan. 3.
- Publications or scientific news bulletins. Science Service, Incorporated. No. 152,041; Feb. 14.
- Publications, Periodical. N. Divir. No. 158,937; Sept. 19.
- Publications, Periodical. Hatfield Electric Company. No. 162,512; Dec. 19.
- Publications, Printed. Silk Association of America. No. 162,367; Dec. 12.
- Publications relating to horse racing and similar sports. Daily. L. K. Houser. No. 154,059; Apr. 4.
- Publications relating to the study of languages. Funk & Wagnalls Company. No. 156,121; June 13.
- Publications, Weekly. Metropolitan Church Association. No. 153,495; Mar. 21.
- Publications, Weekly periodical. American Lumberman. No. 159,253; Sept. 26.
- Published works of a religious nature. American Baptist Publication Society. No. 162,948; Dec. 26.
- Puddings, Fruit and other. Campbell Manufacturing Co. No. 162,036; Dec. 5.
- Pulleys or blocks. Boston & Lockport Block Company. Nos. 159,285-6; Sept. 26.
- Pulleys, Power-transmission. Rockwood Manufacturing Company. No. 162,878; Dec. 26.
- Pulleys, Stamped steel. Dodge Sales & Engineering Co. No. 159,333; Sept. 26.
- Pulp stones for wood-pulp-working machines, and parts thereof. Smallwood Stone Company. No. 161,623; Nov. 14.
- Pulp, Wood. Finnish Cellulose Union. No. 152,771; Mar. 7.
- Pulps, Wood, chemical, sulphite, etc. Wayagamack Pulp & Paper Co. No. 156,077; June 13.
- Pumping and other machinery. Worthington Pump and Machinery Corporation. No. 155,130; May 16.
- Pumping equipment and water systems. Fort Wayne Engineering & Manufacturing Co. No. 155,964; June 13.
- Pumping machinery, pumps, vacuum pumps, and air and gas compressors. Worthington Pump and Machinery Corporation. No. 157,250; July 25.
- Pumps. Deming Company. No. 160,445; Oct. 24.
- Pumps. St. Louis Pump & Equipment Company. No. 155,180; May 16.
- Pumps, Air. W. M. Ingram. No. 152,833; Mar. 7.
- Pumps, Air. Patten Manufacturing Company. No. 158,278; Aug. 29.
- Pumps and attachments for same, Visible measuring gasoline-dispensing. R. Cox. No. 155,147; May 16.
- Pumps and compressors. Boyle-Dayton Co. No. 150,747; Jan. 10.
- Pumps and compressors and flexible couplings. Nash Engineering Co. No. 161,897; Nov. 21.
- Pumps and crude-fuel-oil pumping equipment, Fuel-oil. J. C. Johnson. No. 156,531; June 27.
- Pumps and meters, Fluid-measuring. St. Louis Pump & Equipment Company. No. 157,287; July 25.
- Pumps and parts thereof. Fort Wayne Engineering & Manufacturing Co. No. 158,219; Aug. 29.
- Pumps and pumping plants. Superior Manufacturing Company. No. 152,518; Feb. 28.
- Pumps, carburetors, etc., Centrifugal and hydraulic. Penberthy Injector Company. No. 155,506; May 30.
- Pumps, Circulating. System Machine Works. No. 160,689; Oct. 24.
- Pumps, Deep-well. Fort Wayne Engineering & Manufacturing Co. No. 159,184; Sept. 19.
- Pumps, Diaphragm. Ralph B. Carter Company. No. 158,199; Aug. 29.
- Pumps, Electric water-supply. Humphries Manufacturing Company. No. 153,205; Mar. 14.
- Pumps, engines, farm implements, wood and metal-working machinery, etc. Tranter Manufacturing Company. No. 157,596; Aug. 8.
- Pumps for gasoline and oil, Measuring. Guarantee Liquid Measure Company. No. 157,260; July 25.
- Pumps for lubricating motors and similar machines, Oil. Robert Bosch Aktiengesellschaft. No. 153,640; Mar. 23.
- Pumps for rotating screens for removing solids from industrial and municipal waste. Dorr Company. No. 156,659; July 11.
- Pumps. Gasoline and oil storage measuring. National Store Specialty Co. No. 150,691; Jan. 3.
- Pumps, Gasoline measuring and dispensing. Clear Vision Pump Company. No. 152,573; Feb. 28.
- Pumps, Gasoline measuring and dispensing. Clear Vision Pump Company. No. 154,436; Apr. 11.
- Pumps, Hand and power. Deming Company. No. 161,869; Nov. 21.
- Pumps, Liquid measuring and dispensing. Guarantee Liquid Measure Company. No. 162,768; Dec. 26.
- Pumps, Power. Deming Company. No. 162,714; Dec. 26.
- Pumps, Self measuring and dispensing. Julian Pump & Manufacturing Company. No. 161,791; Nov. 21.
- Pumps, stands, systems, and outfits for handling or using certain fluids, Certain. Wayne Oil Tank & Pump Company. No. 151,631; Feb. 7.
- Pumps, Vacuum heating and condensation. Nash Engineering Company. No. 153,261; Mar. 14.
- Pumps, Water, oil, etc. Boyle-Dayton Co. No. 154,233; Apr. 11.
- Punch presses. Reliance Die and Stamping Company. No. 157,279; July 25.
- Puncture and blow-out sealing compounds. R. M. Bowes Company. No. 150,667; Jan. 3.
- Puncture-sealing compound. J. Houdry & Fils. No. 160,212; Oct. 17.
- Purgative. W. L. Aeckerle. No. 150,212; Jan. 3.
- Purgative, a tonic, purgative, kidney and liver preparation. J. T. Moran. No. 150,482; Jan. 3.
- Purses. Elwood Myers Co. No. 158,751; Sept. 12.
- Putty. Baker Paint & Varnish Co. No. 158,603; Sept. 12.
- Putty, paints, and varnishes. Société Anonyme des Anciens Etablissements Muylle-Facon. No. 158,542; Sept. 5.
- Putty, Stove and boiler. Rutland Fire Clay Co. No. 160,650; Oct. 24.
- Puzzle. Miller & Kent. No. 160,242; Oct. 17.
- Puzzles. A. I. Ekstrom. No. 160,857; Oct. 31.
- Puzzles. Redlich Manufacturing Company. No. 157,434; Aug. 1.
- Pyjamas. Knothe Brothers Co. No. 161,191; Nov. 7.
- Pyjamas. Lord & Taylor. Nos. 161,212-4; Nov. 7.
- Pyjamas and night robes. T. J. Maxwell & Co. Nos. 162,548-9; Dec. 19.
- Pyjamas, robes, and combination sets of pyjamas and robes. Stadium Underwear Co. No. 157,298; July 25.
- Pyrometer tubes. Thwing Instrument Co. Nos. 153,879-80; Mar. 28.
- Pyrometers. A. W. Diack. No. 162,717; Dec. 26.
- Pyrophoric igniters. Chastern, Inc. No. 157,026; July 25.
- Pyroxylin and nitrocellulose. E. I. du Pont de Nemours & Company. No. 153,155; Mar. 14.
- Pyroxylin sheet material, rods, and tubing. American Celutex Corporation. No. 151,070; Jan. 24.
- Pyroxylin or its compounds, Material composed wholly or in part of. Arlington Manufacturing Company. No. 20,852; renewed Mar. 15, 1922.
- Quinine, Epsom salts, castor oil, cough sirup, salt, baking powder, and bluing. Consolidated Companies Inc. No. 159,852; Oct. 10.
- Rabbit skins dyed by special process. A. Kosofsky. No. 154,080; Apr. 4.
- Radiants or refractory heating elements for gas fires. John Wright & Eagle Range Ltd. Nos. 153,358-9; Mar. 14.
- Radiator caps. Belden Manufacturing Company. No. 160,759; Oct. 24.
- Radiator caps. F. Wolkow & Sons. No. 153,044; Mar. 7.
- Radiator compound. Navajo Laboratories, Inc. No. 151,560; Feb. 7.
- Radiator-sealing material. Rade Rite Mfg. Co. No. 156,398; June 20.
- Radiators, Electric steam. Scheeline Manufacturing Company. No. 153,299; Mar. 14.
- Radiators, Preparation used to prevent the freezing of. Mifflin Chemical Corporation. No. 157,364; Aug. 1.
- Radio apparatus. Adams-Morgan Company. No. 150,701; Jan. 10.
- Radio apparatus. A-C Electrical Manufacturing Co. No. 162,947; Dec. 26.
- Radio apparatus. Briggs & Stratton Company. No. 162,201; Dec. 12.
- Radio apparatus. Heath Radio and Electric Mfg. Co. No. 162,260; Dec. 12.
- Radio apparatus. P. F. Weiss. No. 162,406; Dec. 12.
- Radio apparatus. Westinghouse Electric & Manufacturing Company. No. 162,410; Dec. 12.
- Radio apparatus and parts. Victor Radio Corporation. No. 162,401; Dec. 12.
- Radio apparatus and parts and test sets for telephone line and cables. Thompson-Levering Company, Inc. No. 161,728; Nov. 14.
- Radio apparatus, Certain. F. A. D. Andrea. No. 156,615; July 11.

Alphabetical list of trade-marks—Continued.

- Radio apparatus, Certain. P. E. Edelman. No. 160,856; Oct. 31.
- Radio apparatus, Certain. P. E. Edelman. No. 162,241; Dec. 12.
- Radio apparatus, Certain. J. Roy Hunt, Inc. No. 162,272; Dec. 12.
- Radio apparatus, Certain described plugs for. Radio Products Corporation. No. 162,344; Dec. 12.
- Radio code-memorizing charts and pamphlets and books relating to radiotelegraphy. C. K. Dodge. No. 162,233; Dec. 12.
- Radio equipment. Heslar Radio Corporation. No. 162,265; Dec. 12.
- Radio mechanism, Certain. Westinghouse Electric & Manufacturing Company. No. 156,781; July 11.
- Radio mechanism, Certain appliances for. American Radio Sales and Service Company. No. 156,611; July 11.
- Radio or wireless telephone apparatus and equipment, etc. Ludwig Hommel & Co. No. 162,296; Dec. 12.
- Radio receiving apparatus. Martin Schweibold and Jacob Schweibold. No. 160,963; Oct. 31.
- Radio receiving apparatus. Morse Manufacturing Company. No. 158,498; Sept. 5.
- Radio-receiving apparatus. Radio Corporation of America. No. 152,961; Mar. 7.
- Radio receiving apparatus and sets. Moreland Sales Corporation. No. 162,321; Dec. 12.
- Radio receiving sets. Acme Apparatus Company. No. 158,372; Sept. 5.
- Radio receiving sets. Beaver Machine & Tool Co. No. 162,195; Dec. 12.
- Radio receiving sets. Lalley Radio Corporation. No. 162,290; Dec. 12.
- Radio receiving sets. L. S. Rappaport. No. 160,950; Oct. 31.
- Radio receiving sets and parts thereof. Electric Machine Corporation. No. 162,242; Dec. 12.
- Radio receiving sets and sending sets and parts thereof. De Witt-La France Co. No. 160,853; Oct. 31.
- Radiosignaling. Jewett Manufacturing Corporation. No. 159,916; Oct. 10.
- Radiosignaling, Apparatus for. Jewett Manufacturing Corporation. No. 156,693; July 11.
- Radiosignaling, Certain electrical apparatus for. Simplex Radio Company. No. 161,028; Oct. 31.
- Radiosignaling, Electrical apparatus for. Chicago Radio Laboratory. No. 161,691; Nov. 14.
- Radio, telegraph, and telephone transmitting and receiving apparatus. B. Daniel. No. 160,850; Oct. 31.
- Radio telephone and telegraph parts. Shotton Radio Manufacturing Company. No. 163,365; Dec. 12.
- Radio telephone and telegraph purposes, Condensers for. Dublier Condenser & Radio Corporation. No. 160,855; Oct. 31.
- Radio telephone and telegraph transmitters and receivers, antenna outfits, head phones, etc. Westinghouse Electric & Manufacturing Company. No. 156,578; June 27.
- Radio telephone and telegraph transmitters and receivers, etc. Westinghouse Electric & Manufacturing Company. No. 158,568; Sept. 5.
- Radiotelephone jacks and plugs and radio bulb sockets. Champion Radio Co. No. 160,844; Oct. 31.
- Radio-tube mounting. J. Roy Hunt, Inc. No. 160,886; Oct. 31.
- Radium products. Radium Company of Colorado. No. 161,270; Nov. 7.
- Rail anchors of anticeepers, rail-anchor shoes, rail-anchor springs or yokes. The P. & M. Company. No. 151,044; Jan. 10.
- Rails, bars, plates, etc. Rolled-metal. Carnegie Steel Company. No. 156,200; June 20.
- Railway frogs, crossings, rail braces, and guard rails. Cincinnati Frog & Switch Co. No. 159,312; Sept. 26.
- Railway rails and certain railway-rail accessories. Koppel Industrial Car & Equipment Co. No. 153,222; Mar. 14.
- Railway rails, ties, fish plates, switch points, etc. Koppel Industrial Car & Equipment Company. No. 156,321; June 20.
- Railway spikes. Railway Lock-Spike Co. No. 157,181; July 25.
- Railway tie plates. Railway Lock-Spike Company. No. 160,638; Oct. 24.
- Railway ties, Reinforced-concrete. Ashley Railway Safety Tie and Construction Corporation. No. 155,924; June 13.
- Raincoats. Cambridge Rubber Company. No. 161,430; Nov. 14.
- Raincoats. W. MacPherson. No. 158,008; Aug. 22.
- Raincoats. New York Mackintosh Clothing Company. No. 154,642; Apr. 18.
- Raincoats. F. W. Tully. No. 156,448; June 20.
- Raincoats and sports jackets. Nicholson's Raincoat Co. Nos. 155,783-4; June 6.
- Raincoats and sweaters. Artistic Designers, Inc. No. 157,856; Aug. 22.
- Raincoats, cravenettes, gabardines, bath robes, and ladies' skirts. Comer Manufacturing Company. No. 158,155; Aug. 22.
- Raincoats, cravenettes, gabardines, bath robes, and ladies' skirts. Comer Manufacturing Company. No. 160,156; Oct. 17.
- Raisins. Great Atlantic and Pacific Tea Company. No. 154,557; Apr. 18.
- Ranges. Otter River Foundry Company. No. 151,300; Jan. 24.
- Ranges, heaters, furnaces, etc. Cleveland Co-Operative Store Co. No. 160,152; Oct. 17.
- Ranges, Gas. Gas & Electric Appliance Company. No. 160,193; Oct. 17.
- Ranges, plates, heaters, and stoves, Gas. Geo. D. Roper Corporation. No. 160,276; Oct. 17.
- Ranges, Steel coal, wood, and combination of coal and gas and wood and gas. Eureka Steel Range Co. Nos. 157,053-4; July 25.
- Rat exterminator. F. P. Foley. No. 154,276; Apr. 11.
- Rat poison. C. D. Berman. No. 158,893; Sept. 19.
- Rat poison. W. M. Coffey. No. 153,683; Mar. 28.
- Rat poison. A. T. Curry. No. 156,117; June 13.
- Rats, mice, and vermin, Chemical exterminators for. T. D. Kain. No. 161,182; Nov. 7.
- Ration, Dairy. Ubiko Milling Company. No. 160,032; Oct. 10.
- Razor-blade-stropping holders, Safety-. J. J. Lochman. No. 157,136; July 25.
- Razor blades. A. H. Bryant. No. 160,086; Oct. 10.
- Razor blades. H. G. Strauss. No. 162,904; Dec. 26.
- Razor blades for stropping, Device for holding. R. W. Rosendahl. No. 155,069; May 16.
- Razor blades, Safety-. Gillette Safety Razor Company. No. 160,194; Oct. 17.
- Razor sets. American Safety Razor Corporation. No. 161,740; Nov. 21.
- Razor-strop dressing. John M. McVoy. No. 157,143; July 25.
- Razor-strop dressing in powdered form. E. E. Hall. No. 162,770; Dec. 26.
- Razor stropping and honing machines, etc. Electrostop Manufacturing Company. No. 152,391; Feb. 28.
- Razor strops. Herzfeld-Phillipson Company. No. 162,264; Dec. 12.
- Razor strops. Illinois Razor Strop Company. Nos. 151,814-15; Feb. 14.
- Razor strops. Illinois Razor Strop Company. No. 155,454; May 30.
- Razor strops. Koken Companies. No. 162,287; Dec. 12.
- Razors. Edlis Barbers' Supply Co. No. 150,797; Jan. 10.
- Razors. J. A. Henckels. No. 156,527; June 27.
- Razors. A. J. Jordan. No. 162,793; Dec. 26.
- Razors. Strutz & Clottu Co. No. 162,128; Dec. 5.
- Razors. Union Cutlery Co. No. 153,337; Mar. 14.
- Razors and blades, combination tools, Safety. Hamburger Factories Inc. No. 157,514; Aug. 8.
- Razors and safety razors and blades. Gem Safety Razor Corporation. No. 154,278; Apr. 11.
- Razors and safety-razor blades, Stropping apparatus for. Hugo Blichner, Maschinenfabrik und Apparatebau-Anstalt Gesellschaft mit beschränkter Haftung. No. 154,976; May 16.
- Razors, certain knives, scissors, etc. H. Müller. No. 158,268; Aug. 29.
- Razors, pocketknives, scissors. Z. D. Jassiano. No. 154,064; Apr. 4.
- Razors, Safety. Gillette Safety Razor Company. No. 154,544; Apr. 18.
- Razors, Safety. Gillette Safety Razor Company. Nos. 154,947-50; May 16.
- Razors, Safety. Gillette Safety Razor Company. No. 156,264; June 20.
- Razors, Safety. Gillette Safety Razor Company. No. 158,346; Aug. 29.
- Razors, Safety. Gillette Safety Razor Company. No. 159,359; Sept. 26.
- Razors, Safety. J. L. White. No. 158,527; Sept. 5.
- Razors, safety razors, safety-razor blades. American Safety Razor Corporation. No. 156,986; July 25.
- Razors, scissors, and hair clippers. Alexis Witte Cutlery Co. No. 158,326; Aug. 29.
- Razors, scissors, etc. E. Kron. No. 153,777; Mar. 28.
- Razors, scissors, knives, files, &c. W. & S. Butcher Limited. No. 151,439; Feb. 7.
- Razors, shears, and files. E. T. Goldberg. No. 161,485; Nov. 14.
- Razors, shears, hair clippers, table and pocket knives. D. Console. Nos. 160,090-1; Oct. 10.
- Reamers, pistons, and piston pins. L. O. Beard. No. 158,334; Aug. 29.
- Receivers, Ash. Sharp Rotary Ash Receiving Corporation. No. 161,720; Nov. 14.
- Receivers, condensers, transformers, etc., Head. Everett Electric Corporation. No. 160,860; Oct. 31.
- Receptacles. Wm. E. Hooper & Sons. No. 151,173; Jan. 24.
- Receptacles. Miami Manufacturing Co. No. 162,970; Dec. 26.
- Receptacles, Caps and tops of. R. W. Wilson. No. 153,565; Mar. 21.
- Receptacles, Certain. M. Claves. No. 154,906; May 16.
- Receptacles, Certain. Coatesville Boiler Works. No. 153,140; Mar. 14.
- Receptacles, Certain. S. Inlander & Co. No. 162,012; Nov. 28.
- Receptacles, Certain named. W. B. Bertels & Son Co. No. 154,228; Apr. 11.

- Receptacles classed as tanks. Fabricated Steel Products Corporation. No. 152,397; Feb. 28.
- Receptacles, Double-walled. Isola Gesellschaft für Wärme- und Kälte-Isolierung. No. 153,211; Mar. 14.
- Receptacles, Garbage and ash. Chicago Granite Manufacturing Company. No. 154,904; May 16.
- Receptacles, Waste. Barsbal Company. No. 158,889; Sept. 19.
- Receptacles, Waste. Diamond State Fibre Company. No. 161,693; Nov. 14.
- Recipes. S. M. Morgan. No. 162,322; Dec. 12.
- Record blank, Household and office inventory. M. Irwin. No. 152,434; Feb. 28.
- Record-sheet holder to be attached to automobile steering wheels and blank record sheets for said holder. R. C. Aulmann. No. 155,925; June 13.
- Reel mills. Atwood Machine Company. No. 159,265; Sept. 26.
- Reeling frames, Silk. Atwood Machine Company. No. 160,379; Oct. 24.
- Reflectors for preventing glare for electric headlights. Way-Lite Reflector Company. No. 158,565; Sept. 5.
- Refrigerating apparatus. E. A. Burrows. No. 159,297; Sept. 26.
- Refrigerating apparatus, Artificial-ice machinery. E. A. Burrows. No. 156,194; June 20.
- Refrigerating machinery. American Carbonic Machinery Company. No. 151,013; Jan. 10.
- Refrigerating systems. Resolute Manufacturing Company. No. 153,833; Mar. 28.
- Refrigerating systems and parts thereof. Automatic Refrigerating Company. No. 156,580; July 4.
- Refrigerating units and household refrigerators. Artificial. Utility Compressor Company. No. 152,531; Feb. 28.
- Refrigerators. Arlington Refrigerator Company. No. 151,073; Jan. 24.
- Refrigerators. Brunswick-Balke-Collender Company. No. 152,127; Feb. 21.
- Refrigerators. Coldak Company. No. 156,581; July 4.
- Refrigerators. G. R. Craw. No. 157,916; Aug. 22.
- Refrigerators. E. Eckl. No. 160,463; Oct. 24.
- Refrigerators. H. Ehrlich & Sons Manufacturing Co. No. 161,359; Nov. 7.
- Refrigerators. Lansburgh & Brother. No. 160,558; Oct. 24.
- Refrigerators. McKee Refrigerator Company. No. 153,785; Mar. 28.
- Refrigerators. J. Rose & Co. No. 155,068; May 16.
- Refrigerators. Standard Refrigerator Company. No. 160,680; Oct. 24.
- Refrigerators. I. F. Stevens. Nos. 155,289-90; May 23.
- Refrigerators. J. R. Wood. No. 153,908; Mar. 28.
- Refrigerators and ice boxes. Johnson-Randall Co. No. 160,542; Oct. 24.
- Refrigerators, Dry-air. Samuel Mann & Bros. Inc. No. 151,036; Jan. 10.
- Refrigerators, ice plants, water-cooling systems. United Iron Works, Inc. No. 162,609; Dec. 19.
- Refrigerators, Iceless. Hammer-Bray Co. No. 151,159; Jan. 24.
- Refuse receptacles. Holbrook, Merrill & Stetson. No. 162,520; Dec. 19.
- Registers, Cabinets for. Egry Register Company. No. 155,676; June 6.
- Registers, Hand-operated counting. C. A. Goodspeed. No. 159,361; Sept. 26.
- Relays, Overload. Brown & Pengilly. No. 158,394; Sept. 5.
- Relish, condiment, or sauce. Preparation of mustard. J. & J. Colman, Ltd. Nos. 150,308-9; Jan. 3.
- Relish, Table. Hy & K. Schnirring. No. 154,579; Apr. 18.
- Relishes. H. Schacht. No. 154,684; Apr. 18.
- Remedies, Corn. J. J. Klavon. No. 155,465; May 30.
- Remedies, Chill. W. R. Little. No. 155,751; June 6.
- Remedies for colds, coughs, catarrh, and inflammations. Boots Pure Drug Company. No. 161,420; Nov. 14.
- Remedies for skin diseases. Benno Gaffe & Darmstaedter. No. 20,505; renewed Dec. 29, 1921.
- Remedies, Obesity and antifat. Boots Pure Drug Company. No. 161,423; Nov. 14.
- Remedy against gall stones, liver complaint, etc. Dr. Ivo Deiglmaier Chemische Fabrik. No. 152,148; Feb. 21.
- Remedy against syphilis, sleeping sickness, etc. H. A. Metz Laboratories. No. 161,232; Nov. 7.
- Remedy, Cough. L. Frolong. No. 156,251; June 20.
- Remedy, Dandruff. H. T. Dandruff Remedy Company. No. 151,458; Feb. 7.
- Remedy, Female. J. F. Hott. No. 156,303; June 20.
- Remedy for ailments of the mouth and throat. J. F. Shannon. No. 160,966; Oct. 31.
- Remedy for amenorrhea, leucorrhoea, etc. Rosol Laboratories. No. 153,842; Mar. 28.
- Remedy for biliousness, colds, &c. W. L. Hand & Company. No. 151,502; Feb. 7.
- Remedy for chapped hands, salt rheum, etc. J. P. Suess. No. 161,313; Nov. 7.
- Remedy for constipation. W. J. Clark. No. 161,355; Nov. 7.
- Remedy for coughs and whooping coughs, colds, &c. Sirup. J. R. Angell. No. 151,664; Feb. 14.
- Remedy for coughs, colds, cuts, stings, etc. Mackie Pine Oil Specialty Co. No. 154,319; Apr. 11.
- Remedy for diseases of the respiratory organs. Dr. D. Jayne & Son. No. 152,201; Feb. 21.
- Remedy for diseases of the uterine organs and similar ailments. Henry K. Wampole & Co. No. 21,233; renewed May 31, 1922.
- Remedy for dyspepsia. Jacques Wolf & Co. No. 161,176; Nov. 7.
- Remedy for fevers, tuberculosis, abscesses, and rheumatism. Farbwerke, vormals Meister, Lucius & Brüning. No. 20,452; renewed Dec. 8, 1921.
- Remedy for fistula and poll-evil in horses and cattle. W. Ballhorn. No. 157,455; Aug. 8.
- Remedy for heaves, coughs, or distemper. Newton Horse Remedy Co. No. 20,814; renewed Mar. 8, 1922.
- Remedy for hemorrhoids. J. Varga. No. 152,533; Feb. 28.
- Remedy for indigestion. A. Marotta. No. 159,949; Oct. 10.
- Remedy for indigestion. Professional Products Co. No. 161,267; Nov. 7.
- Remedy for insomnia and restlessness, Preparation used as a. H. K. Mulford Company. No. 159,448; Sept. 26.
- Remedy for malaria. Waterman Manufacturing Company. No. 156,461; June 20.
- Remedy for nervous disorders. William H. Gannett. No. 21,516; renewed July 26, 1922.
- Remedy for phthisis. Farbwerke, vormals Meister, Lucius & Brüning. Nos. 20,617-8; renewed Jan. 19, 1922.
- Remedy for piles. J. W. Soule. No. 161,301; Nov. 7.
- Remedy for rheumatism. Purinton Medicine Co. No. 21,549; renewed Aug. 2, 1922.
- Remedy for the cure of headache, colds, neuralgia, etc. C. B. Kingsley. No. 21,051; renewed Apr. 26, 1922.
- Remedy for the prevention and relief of seasickness. J. S. Niederkorn. No. 158,041; Aug. 22.
- Remedy for the treatment of blennorrhoea. L'Euterapica. No. 157,942; Aug. 22.
- Remedy for treatment of rheumatism. M. J. Kvidera. No. 151,834; Feb. 14.
- Remedy for treatment of rheumatism, headache, etc. J. Filipowicz & Co. No. 152,166; Feb. 21.
- Remedy for tuberculosis. Z. E. Moore. No. 152,235; Feb. 21.
- Remedy for weakness, anæmia, etc. Stout Medicine Company. No. 156,435; June 20.
- Remedy, Headache and neuralgia. Agol Chemical Company. No. 153,638; Mar. 28.
- Remedy or relief in case of seasickness, train sickness, and nausea. Boots Pure Drug Company. No. 161,421; Nov. 14.
- Remedy, Pile. Craven & Love. No. 157,915; Aug. 22.
- Remedy, Pile. Henry Newton Company. No. 154,110; Apr. 4.
- Remedy, Restorative and constructive tonic. Nurdium Company. No. 158,512; Sept. 5.
- Remedy, Stomach. Barney-Bennett Co. No. 152,119; Feb. 21.
- Remedy, Tapeworm. E. Aruny. No. 157,857; Aug. 22.
- Remedy to take off superfluous fat and reduce weight. G. J. Hurwitt. No. 153,760; Mar. 28.
- Rennet extract, powder, and tablets and junket tablets. Alpha-Lux Company. No. 160,358; Oct. 24.
- Repair kits for tubes. Taylor-Williams Co. No. 159,647; Sept. 26.
- Resisters, lightning arresters, and fuses for electrical purposes. High Tension Supplies Company. No. 162,267; Dec. 12.
- Respiration-testing and gas-administration apparatus. E. I. McKesson. No. 153,237; Mar. 14.
- Revolvers. F. Bifarr, Jr. Nos. 155,139-40; May 16.
- Rhubarb laxative medicinal preparation. I. S. Robins. No. 154,372; Apr. 11.
- Ribbon, Velvet. Ernest & Herman Levy, Inc. No. 161,531; Nov. 14.
- Ribbonette, printed ribbon, and printed string. Chicago Printed String Co. No. 161,354; Nov. 7.
- Ribbons and carbon sheets, Inked. Columbia Carbon Company. No. 151,716; Feb. 14.
- Ribbons and carbon sheets, Inked. A. M. Heck. No. 151,802; Feb. 14.
- Ribbons and silk goods in the piece. John Cowdin & Company. No. 150,313; Jan. 3.
- Ribbons, cotton, woolen, and silk goods, all in the piece. W. Bodek Company. No. 159,663; Oct. 3.
- Ribbons for making camisoles. Ernest & Herman Levy, Inc. No. 156,970; July 18.
- Ribbons, Hair. Frankenthaler and Frankenthaler. No. 162,506; Dec. 19.
- Ribbons in the bolt. R. H. White Company. No. 154,419; Apr. 11.
- Ribbons in the piece. Corbett Brothers Co. No. 153,143; Mar. 14.
- Ribbons, Satin and velvet. Passavant & Co. No. 21,711; renewed Aug. 30, 1922.
- Ribbons, Silk and velvet. W. E. Dodd. No. 150,334; Jan. 3.
- Rice. Associated Rice Millers of America, Inc. No. 159,263; Sept. 26.
- Rice. Pacific Trading Co. No. 159,979; Oct. 10.
- Rice. Rice Products Co. No. 153,514; Mar. 21.
- Rifles. Page-Lewis Arms Company. No. 159,730; Oct. 3.
- Rifles and shotguns. Marlin Firearms Corporation. No. 156,584; July 4.

Alphabetical list of trade-marks—Continued.

- Rim tools. Ideal Rim-Tool Company. No. 153,207; Mar. 14.
- Ring travelers. National Ring Traveler Co. Nos. 156,019-20; June 13.
- Rings and mountings therefor. Finger. Gross, Zoldo & Ronay. No. 152,803; Mar. 7.
- Rings and scarf pins. Finger. La France Jewelry Mfg. Company. No. 161,705; Nov. 14.
- Rings, Finger. Bock-Lewis Co. No. 156,628; July 11.
- Rings, Finger. L. C. May. No. 161,559; Nov. 14.
- Rings, Finger. M. Seiger & Son. No. 156,752; July 11.
- Rings, Finger. Uncas Manufacturing Co. No. 156,769; July 11.
- Rings, other jewelry, and precious-metal ware. Albert S. Samuels Co. Nos. 159,081-2; Sept. 19.
- Rings to the noses of animals, implement for applying. Estate of A. C. Decker. No. 160,171; Oct. 17.
- Rivet-upsetting machines. A. E. Meyer. No. 153,245; Mar. 14.
- Rivets. Edwin B. Stimpson Company. No. 157,291; July 25.
- Rivets. Edwin B. Stimpson Company. Nos. 161,724-5; Nov. 14.
- Rivets. Edwin B. Stimpson Company. No. 162,124; Dec. 5.
- Rivets. Penn Rivet Corporation. No. 161,584; Nov. 14.
- Rivets, Soft metal. E. E. Peck Co. No. 152,620; Feb. 28.
- Road top dressing, Bituminous. E. W. Andresen. No. 160,369; Oct. 24.
- Robes and smoking jackets, Bath and lounging. Van Baalen, Heilbrun & Co. No. 161,326; Nov. 7.
- Robes, Night. E. Rosenfeld & Co. No. 21,359; renewed June 28, 1922.
- Rockers, Children's. Woodstock Manufacturing Co. No. 159,595; Sept. 26.
- Rodents, Mixture for the destruction of. C. G. Woods, Jr. No. 152,302; Feb. 21.
- Rogers, Urbane E., Company, The, Dallas, Tex. Vegetable-oil soap. No. 159,566; Sept. 26.
- Roller coasters. Eastern Engineering Company. No. 157,932; Aug. 22.
- Rolling pins. W. Harris. No. 153,196; Mar. 14.
- Romper, Child's. Cole-Granas-Enderlin Company. No. 151,714; Feb. 14.
- Rompers, jumpers, overalls, and smocks, Children's. Wornova Mfg. Co. No. 158,870; Sept. 12.
- Roof coating. Fireproof Products Co. No. 152,399; Feb. 28.
- Roof coating, plastic cement, calking and glazing cement, and boiler coating, Asphalt liquid. L. Abseck. No. 162,462; Dec. 19.
- Roofing and asphalt shingles, Prepared. Beckman-Dawson Roofing Co. No. 160,136; Oct. 17.
- Roofing and flooring materials. Flintkote Company. No. 160,183; Oct. 17.
- Roofing and roof cement, Prepared. John Sexton and Company. No. 155,829; June 6.
- Roofing and sheathing and building paper, Felt. Barrett Company. No. 159,656; Oct. 3.
- Roofing and shingles, sheathing paper, etc., Asphalt. Irwin Paper Company. No. 152,838; Mar. 7.
- Roofing, cements, and air-cell paper, Prepared. Federal Asbestos Co. No. 154,022; Apr. 4.
- Roofing composed of asphalt and felt, Prepared. Ford Roofing Products Co. No. 153,589; Mar. 21.
- Roofing, Felt. Stelwagon Manufacturing Co. Nos. 156,962-3; July 18.
- Roofing, Felt. Stelwagon Manufacturing Co. No. 160,682; Oct. 24.
- Roofing materials. Flintkote Company, The. No. 160,093; Oct. 10.
- Roofing materials. G. H. Voter, Inc. No. 159,782; Oct. 3.
- Roofing, Prepared. Federal Asbestos Co. Nos. 154,023-4; Apr. 4.
- Roofing, Prepared. Ford Roofing Products Co. No. 155,963; June 13.
- Roofing, Prepared. Heppes-Nelson Roofing Co. No. 154,048; Apr. 4.
- Roofing, Prepared. National Asbestos Manufacturing Co. No. 150,490; Jan. 3.
- Roofing, Prepared. National Asbestos Manufacturing Co. No. 152,467; Feb. 28.
- Roofing, Prepared. M. I. Wilcox Company. No. 159,785; Oct. 3.
- Roofing tin. A. & G. Taylor Co. No. 20,563; renewed Jan. 5, 1922.
- Roofings, Waterproof and weatherproof. Paraffine Companies. No. 160,636; Oct. 24.
- Root beer. M. Case. No. 156,201; June 20.
- Root beer. J. M. Eckenrode. No. 151,122; Jan. 24.
- Root beer and ginger ale. Reid, Murdoch & Co. No. 159,996; Oct. 10.
- Root-beer extracts. S. L. Goldman. No. 161,944; Nov. 28.
- Rope, cord, and twine. American Manufacturing Company. No. 151,045; Feb. 14.
- Rope, cord, twine, etc. Wm. E. Hooper & Sons Co. No. 151,172; Jan. 24.
- Rope, Manila. Portland Cordage Co. No. 155,052; May 16.
- Rope machines. R. L. G. Day. No. 154,262; Apr. 11.
- Rope, Manila. Whitlock Cordage Co. No. 153,561; Mar. 21.
- Rope, Manila, sisal, wire, and marine-covered wire. Ajax Rope Company. No. 154,858; May 16.
- Rope, rovings, cords, and twines. Clark Bros. Mfg. Co. No. 158,918; Sept. 19.
- Rope, Sisal. Whitlock Cordage Co. No. 153,562; Mar. 21.
- Rope, Transmission. Portland Cordage Co. No. 150,932; Jan. 10.
- Rope, twine, cordage. Columbian Rope Company. No. 153,142; Mar. 14.
- Ropes and cordage—namely, sisal and manila. Hooven & Allison Company. No. 159,377; Sept. 26.
- Ropes and wires, Anchors for guy. Albert B. Chance. No. 151,377; Jan. 31.
- Ropes, cord, twine. California Cotton Mills Company. No. 151,320; Jan. 31.
- Ropes, Lariat. Portland Cordage Co. No. 150,523; Jan. 3.
- Rouge. A. Bourjois & Co. No. 158,188; Aug. 29.
- Rouge. M. Levy. No. 161,202; Nov. 7.
- Rouge and compact powders. A. Bourjois & Co. No. 158,187; Aug. 29.
- Rouge and face powder. V. Vivaudou, Inc. No. 150,635; Jan. 3.
- Rouge, being in the nature of a compact face powder. A. Bourjois & Co. No. 158,191; Aug. 29.
- Rouge, cold cream, lip stick, toilet water, etc. Lournay, Inc. No. 158,252; Aug. 29.
- Rouge, cold cream, lip sticks, toilet water, talcum powder, and perfume. Lournay, Inc. Nos. 158,481-4; Sept. 5.
- Rouge, Face. Daniels and Fisher Stores Company. No. 159,686; Oct. 3.
- Rouge, Face and lip. S. Markman. No. 158,492; Sept. 5.
- Rouge in the nature of compact and face powder. A. Bourjois & Co. No. 158,190; Aug. 29.
- Rouge, rouge powder, lip salve, etc. A. Bourjois & Co. No. 158,192; Aug. 29.
- Rubber, Accelerator for vulcanization of. Doyan Chemical Corporation. No. 156,232; June 20.
- Rubber and fabric belting, hose, and tires, etc. Nott-Atwater Company. No. 159,971; Oct. 10.
- Rubber and leather goods, Certain. Page Belting Company. No. 21,924; renewed Nov. 1, 1922.
- Rubber and leather in combination, Heels of. Nova Heel Manufacturing Co. No. 157,162; July 25.
- Rubber baby pants and waders, etc., All. I. B. Kleinert Rubber Company. Nos. 152,445-6; Feb. 28.
- Rubber baby pants and waterproof house-aprons. J. J. Beyerle Mfg. Co. No. 151,082; Jan. 24.
- Rubber balls, Toy. Panther Rubber Manufacturing Company. No. 152,934; Mar. 7.
- Rubber belting. Goodyear Rubber Co. No. 160,197; Oct. 17.
- Rubber belting. Goodyear Rubber Co. No. 160,508; Oct. 24.
- Rubber belting. Goodyear Tire and Rubber Company. No. 150,384; Jan. 3.
- Rubber belting and hose. Manhattan Rubber Mfg. Co. No. 157,144; July 25.
- Rubber belting, hose, and packing. Revere Rubber Company. No. 20,848; renewed Mar. 15, 1922.
- Rubber belts for personal wear. Miller Rubber Company. No. 154,633; Apr. 18.
- Rubber boots and shoes. La Crosse Rubber Mills Co. No. 159,012; Sept. 19.
- Rubber, canvas, and leather belting. Gifford-Wood Company. Nos. 150,377-8; Jan. 3.
- Rubber combs. Seamless Rubber Company. No. 162,888; Dec. 26.
- Rubber compound. A. Orris. No. 154,120; Apr. 4.
- Rubber erasers. E. Hassinger. No. 152,815; Mar. 7.
- Rubber, fabric, and leather belting. M. I. Wilcox Company. No. 160,739; Oct. 24.
- Rubber fabric or rubber and fabric gaskets, etc. Fairbanks Co. No. 154,021; Apr. 4.
- Rubber goods, Patches for. Porteous Products Corp., Inc. No. 160,634; Oct. 24.
- Rubber goods, Repair patches for fractured. C. G. Wright. No. 153,356; Mar. 14.
- Rubber heels. Armstrong Cork Company. No. 159,163; Sept. 19.
- Rubber heels. Armstrong Cork Company. No. 161,047; Nov. 7.
- Rubber heels. Brooks & Co. No. 156,192; June 20.
- Rubber heels. Emery Rubber Heel Company. No. 154,541; Apr. 18.
- Rubber heels. Hood Rubber Company. No. 157,103; July 25.
- Rubber heels. Lynch Heel Company. No. 161,218; Nov. 7.
- Rubber heels. Panther Rubber Manufacturing Company. Nos. 162,103-4; Dec. 5.
- Rubber heels. Panther Rubber Manufacturing Company. No. 162,106; Dec. 5.
- Rubber heels. S. Santalucia. No. 159,083; Sept. 19.
- Rubber heels. Spokesfield & Sprenger. No. 154,708; Apr. 18.
- Rubber heels. Taunton Rubber Company. No. 162,175; Dec. 5.
- Rubber heels. Taunton Rubber Company. No. 162,996; Dec. 26.

- Rubber heels. Twin Tube & Rubber Company. No. 155,296; May 23.
- Rubber heels. L. Q. White Shoe Co. No. 159,153; Sept. 19.
- Rubber heels and soles. Dryden Rubber Company. No. 156,118; June 13.
- Rubber heels and soles. Federal Rubber Company. Nos. 150,811-3; Jan. 10.
- Rubber heels for shoes. Holtite Manufacturing Co. No. 161,168; Nov. 7.
- Rubber heels, soles. Victory Rubber Company. No. 156,456; June 20.
- Rubber hose, belting, and packing. Cincinnati Rubber Mfg. Co. No. 160,411; Oct. 24.
- Rubber hose with metal lining, fabric-covered. Metal Hose & Tubing Co. No. 154,835; May 9.
- Rubber hose with metal lining, fabric-covered. Metal Hose & Tubing Co. No. 159,951; Oct. 10.
- Rubber, including mats and matting, Articles of vulcanized. New York Belting and Packing Company. No. 22,108; renewed Dec. 6, 1922.
- Rubber jar rings. Cupples Company Manufacturers. No. 160,439; Oct. 24.
- Rubber mallets. Federal Rubber Company. Nos. 151,474-6; Feb. 7.
- Rubber mats. B. F. Goodrich Company. No. 152,409; Feb. 28.
- Rubber mats for automobiles. Sure-Step Auto Mat Co. No. 151,307; Jan. 24.
- Rubber, Mineral. Insulating Materials Company. No. 154,444; Apr. 11.
- Rubber nipples, Infants'. T. J. Dykema. No. 162,429; Dec. 12.
- Rubber or composition rubber shoe soles and heels. Republic Rubber Corporation. No. 153,070; Aug. 22.
- Rubber patch and adhesive outfit, All-. R. M. Hollingshead Co. No. 153,201; Mar. 14.
- Rubber patches. Cord Interwoven Patch Co. No. 151,722; Feb. 14.
- Rubber patches, Sheet-. J. C. Caldwell. No. 162,425; Dec. 12.
- Rubber patches, Sheet-. W. W. Stiles. No. 160,023; Oct. 10.
- Rubber patches, Sheet-. United States Sales Corporation. No. 157,232; July 25.
- Rubber preservative. Rubber Process Corporation. No. 157,382; Aug. 1.
- Rubber sheeting. A. Stein and Company. No. 153,012; Mar. 7.
- Rubber soles and heels. Essex Rubber Company. No. 157,052; July 25.
- Rubber soles and heels. Manhattan Rubber Mfg. Co. No. 158,501; Sept. 5.
- Rubber soles and heels for shoes. General Tire and Rubber Company. No. 156,259; June 20.
- Rubber soles and taps. Panther Rubber Manufacturing Company. No. 162,105; Dec. 5.
- Rubber soles, Boot and shoe. Cushman-Hollis Co. No. 154,525; Apr. 18.
- Rubber solution for repairing leather or rubber, India-. F. Moulin. No. 153,498; Mar. 21.
- Rubber stamps and marking devices. M. C. Lederer. No. 155,248; May 23.
- Rubber-surface clothing. Franklin Rubber Company. No. 161,362; Nov. 7.
- Rubber tiling for floors. W. H. Salisbury & Company. No. 160,653; Oct. 24.
- Rubber tires. Gates Rubber Company. No. 153,927; Mar. 28.
- Rubber tires. United States Tire Company. No. 153,950; Mar. 28.
- Rubber toys. J. G. Franklin and Sons. No. 151,131; Jan. 24.
- Rubber toys, Certain. Toycraft Rubber Co. No. 151,981; Feb. 14.
- Rubber, wood-rim, and vulcanizing cements, etc. B. F. Goodrich Company. No. 153,347; Aug. 29.
- Rubberized top fabric. Bridgeport Coach Lace Co. No. 152,050; Feb. 14.
- Rubbing preparation for external use. Bowman Drug Company. No. 160,841; Oct. 31.
- Ruffings and platings for neckwear and trimmings. G. Sidenberg & Co. No. 151,944; Feb. 14.
- Rug, fabric known as a royal Turkish. W. T. Smith & Son, Inc. No. 156,925; July 18.
- Rugs. Colonial Rug Company. No. 157,908; Aug. 22.
- Rugs. W. M. Ferguson. No. 152,398; Feb. 28.
- Rugs and carpets, Rag. W. M. Hoffmanns. No. 150,849; Jan. 10.
- Rugs and carpets, Wool. H. G. Fetterolf Company. No. 158,157; Aug. 22.
- Rugs and carpets, Woven. John Bromley & Sons. No. 152,693; Mar. 7.
- Rugs and carpets, Woven. Olson Rug Company. No. 150,938; Jan. 10.
- Rugs, Axminster. Hugh Nelson's Columbia Carpet Mills. No. 160,610; Oct. 24.
- Rugs, Body Brussels. Marshall Field & Company. No. 161,711; Nov. 14.
- Rugs, carpets, etc. Mars Grand Rug Co. No. 162,821; Dec. 26.
- Rugs, Cotton and woolen. Gem Hammock & Fly Net Company. No. 155,152; May 16.
- Rugs, lap robes, overcoating, Steamer and sanitarium. F. C. Huyek & Sons. No. 155,453; May 30.
- Rugs, Textile. Wm. Henderson & Co. No. 155,707; June 6.
- Rugs, Wilton. Marshall Field & Company. No. 161,224; Nov. 7.
- Rugs, Wilton. Marshall Field & Company. No. 162,546; Dec. 19.
- Rugs, Woven fiber. National Fiber Textile Company. No. 162,842; Dec. 26.
- Rust remover, Chemical. A. C. Sinclair Co. No. 158,301; Aug. 29.
- Rust solvent. Halstead Specialties Company. No. 155,700; June 6.
- Sacks, Cotton-picking. Clifton Manufacturing Company. Nos. 152,574-7; Feb. 28.
- Sacks, wooden cases, boxes, crates, etc. Fruit and Produce Exchange of Great Britain, Limited. No. 158,678; Sept. 12.
- Saddlery hardware. Eberhard Manufacturing Company. No. 21,019; renewed Apr. 26, 1922.
- Sadiron, branding and soldering irons, Electrical heating elements for. Dover Manufacturing Company. No. 158,424; Sept. 5.
- Sadiron, Stone-heated. Dover Manufacturing Company. No. 152,749; Mar. 7.
- Safes. Metal Office Furniture Co. No. 152,614; Feb. 28.
- Safes. Safe Cabinet Company. No. 160,112; Oct. 10.
- Safes and locks. Victor Safe and Lock Company. No. 159,567; Sept. 26.
- Safes and office safes. Fire-Proof Furniture and Construction Company. No. 150,814; Jan. 10.
- Safes, vault doors, locks, etc., Filing, skeleton, and fire-proof. Diebold Safe and Lock Company. No. 161,934; Nov. 28.
- Safety pins. Consolidated Safety Pin Company. Nos. 155,653-4; June 6.
- Salad dressing. Quality Specialty Company. No. 153,943; Mar. 28.
- Salad dressing. Quality Specialty Company. No. 154,663; Apr. 18.
- Salad dressing. J. G. Seckary. No. 152,989; Mar. 7.
- Salad dressing. A. E. Wright. No. 162,624; Dec. 19.
- Salad dressing, foods, and ingredients of foods. J. B. Smith. No. 158,541; Sept. 5.
- Salmon. Frederic Plank & Co. No. 156,842; July 18.
- Salt. Independent Salt Company. No. 157,987; Aug. 22.
- Salt. Independent Salt Company. No. 160,890; Oct. 31.
- Salt. International Salt Co. of New York. No. 151,512; Feb. 7.
- Salt. International Salt Co. of New York. No. 153,763; Mar. 28.
- Salt. International Salt Co. of New York. No. 157,526; Aug. 8.
- Salt. International Salt Co. of New York. No. 161,507; Nov. 14.
- Salt. Myles Salt Co. No. 155,902; June 6.
- Salt. Ohio Salt Company. No. 157,164; July 25.
- Salt. Remington Salt Company. No. 158,583; Sept. 5.
- Salt. Remington Salt Company. Nos. 160,952-4; Oct. 31.
- Salt. Retsof Mining Company. No. 153,834; Mar. 28.
- Salt. Worcester Salt Co. No. 157,406; Aug. 1.
- Salt. Wadsworth Salt Company. No. 160,995; Oct. 31.
- Salt, Block. Cutler-Magner Co. No. 150,319; Jan. 3.
- Salt, Dairy and table. International Salt Co. of New York. No. 155,457; May 30.
- Salt, Granular effervescent. Jads Salts Company. No. 158,467; Sept. 5.
- Salt—i. e., sodium chloride. Worcester Salt Co. Nos. 151,647-8; Feb. 7.
- Salt—i. e., sodium chlorid. Worcester Salt Co. No. 153,909; Mar. 28.
- Salt, Mineral and medical. Spa Baths Co. No. 152,275; Feb. 21.
- Salt nutritive, Blood. E. Bukowski. No. 153,674; Mar. 28.
- Salt (sodium chloride). Capell Salt Company. No. 158,153; Aug. 22.
- Salt, Table. M. Levin. No. 162,162; Dec. 5.
- Salt, Table. F. West. No. 161,339; Nov. 7.
- Salted wafers, soda crackers, etc. Pacific Coast Biscuit Company. No. 159,469; Sept. 26.
- Salts, Bath. Saltrates, Limited. No. 161,611; Nov. 14.
- Salts, borax, alum, etc., Epsom. J. H. Snyder Med. Co. No. 155,530; May 30.
- Salts in tablet form, Mineral-water. Georges Prunier & Cie. No. 156,515; June 27.
- Salts, Laxative. Pioneer Biochemic Products Co. No. 152,947; Mar. 7.
- Salve. J. A. Baker. No. 158,384; Sept. 5.
- Salve. A. Baron. No. 152,120; Feb. 21.
- Salve. Bickmore Gall Cure Company. No. 21,456; renewed July 19, 1922.
- Salve. J. Canaler. No. 153,677; Mar. 28.
- Salve. Heal-o Products Co. No. 158,454; Sept. 5.
- Salve. N. W. Kline. No. 152,209; Feb. 21.
- Salve. John Novak Company. No. 156,376; June 20.
- Salve. Polar Salve Company. No. 152,255; Feb. 21.
- Salve. Sal-Cura Co. No. 155,815; June 6.
- Salve. I. D. Shierling. No. 161,722; Nov. 14.
- Salve. R. Theiner. No. 150,622; Jan. 3.
- Salve. R. V. Turner. No. 153,884; Mar. 28.
- Salve, Antiseptic healing. M. Walinder. No. 151,630; Feb. 7.
- Salve, Certain. M. G. Hornung. No. 160,884; Oct. 31.
- Salve, Certain medicinal. Professional Products Co. No. 160,944; Oct. 31.

Alphabetical list of trade-marks—Continued.

- Salve, Corn. H. D. Burnett. No. 152,128; Feb. 21.
 Salve for boils, cuts, wounds, etc. E. V. Vlach. No. 157,602; Aug. 8.
 Salve for certain named purposes. P. Hohl. No. 150,402; Jan. 3.
 Salve for certain named uses. Butler-Diestelkamp-Stock Chemical Co. No. 150,272; Jan. 3.
 Salve for certain purposes. C. A. Mead. No. 160,921; Oct. 31.
 Salve for certain purposes. John Novak Company. No. 150,499; Jan. 3.
 Salve for cuts, etc. G. T. Johnson. No. 154,303; Apr. 11.
 Salve for cuts, wounds and bruises, and a general medicinal tonic. J. Sagan. No. 150,554; Jan. 3.
 Salve for hemorrhoids, cuts, etc., Healing. D. C. Matheny. No. 154,328; Apr. 11.
 Salve for piles, burns, sore throat, etc. M. Harris. No. 158,451; Sept. 5.
 Salve for piles, catarrh, eczema, etc. A. H. Hileman. No. 152,109; Feb. 21.
 Salve for piles or hemorrhoids. Belcher Remedy Co. No. 161,056; Nov. 7.
 Salve for the treatment of eczema, itching, etc. P. A. De Laporte. No. 161,110; Nov. 7.
 Salve for the treatment of rheumatism. W. Haefell. No. 161,155; Nov. 7.
 Salve for the treatment of sores, burns, boils, eczema, and the like. E. Gosselin. No. 158,966; Sept. 19.
 Salve for treatment of rheumatism, etc., Medicinal. A. C. Conn. No. 157,910; Aug. 22.
 Salve for use in treatment of colds, coughs, influenza, burns, etc. Park Laboratory Company. No. 158,053; Aug. 22.
 Salve for wounded, sore, or galled horses. H. D. Fenton. No. 151,756; Feb. 14.
 Salve for wounds. F. K. Lewinski. No. 156,326; June 20.
 Salve for wounds and sores. J. Buzinski. No. 150,273; Jan. 3.
 Salve for wounds, sores, etc. L. Bellaire. No. 155,616; June 6.
 Salve, Healing. A. F. Carlin. No. 157,313; Aug. 1.
 Salve, Healing. P. Cocuzza. No. 157,898; Aug. 22.
 Salve, Healing. J. Radzevich. No. 160,949; Oct. 31.
 Salve, Medicinal. Doster-Northington Drug Co. No. 155,570; May 30.
 Salve, Medicinal. Vick Chemical Company. No. 157,235; July 25.
 Salve or ointment. E. Fimmel. No. 158,951; Sept. 19.
 Salve or ointment. Gibson-Snow Co. No. 151,490; Feb. 7.
 Salve or ointment for croup, colds, etc. Capudine Chemical Company. No. 155,391; May 30.
 Salve or ointment for the hair. V. B. Wilson. No. 154,185; Apr. 4.
 Salve or preparation for throat and lung trouble. J. A. Kelly. No. 156,316; June 20.
 Salves and ointments. Combustinwerk Eulitz & Co. No. 157,480; Aug. 8.
 Salves containing camphor ingredients. Dusco Co. No. 158,941; Sept. 19.
 Salves for skin diseases. W. L. Adden. No. 160,818; Oct. 31.
 Salves for skin eruptions and sores. W. J. Ferrara. No. 151,477; Feb. 7.
 Salves for wounds, cuts, and bruises, Healing. N. Farynyk. No. 155,685; June 6.
 Salves for wounds, sores, etc. Kal-Kal Laboratories Inc. No. 154,068; Apr. 4.
 Sand and gravel. Eau Claire Sand & Gravel Co. No. 155,675; June 6.
 Sand and gravel, Washed. Rosoff Sand & Gravel Corp. No. 160,283; Oct. 17.
 Sand, Mixers and preparing machines for molding. Link-Belt Co. No. 162,814; Dec. 26.
 Sandpaper. Wausau Abrasives Company. No. 153,049; Mar. 7.
 Sandwich fillings. Hanson Manufacturing Co. No. 161,948; Nov. 28.
 Sandwiches and pastry. B/G Sandwich Shops. No. 159,268; Sept. 26.
 Sandwiches, Candy. C. L. Brush. No. 154,769; May 2.
 Sanitary appliances, Certain. L. Jaffe. No. 153,213; Mar. 14.
 Sanitary aprons and belts. A. Stein & Company. No. 159,121; Sept. 19.
 Sanitary belts. Rubberized Sheeting & Specialty Co. No. 158,796; Sept. 12.
 Sanitary containers. Scrantoneed Container Corporation. No. 154,382; Apr. 11.
 Sanitary napkins. L. Deutsch. No. 162,229; Dec. 12.
 Sanitary napkins. Hospital Specialty Co. No. 154,296; Apr. 11.
 Sanitary napkins, aprons, belts, diapers, and surgeons' rubber gloves. Ace Specialties Corp. No. 154,854; May 16.
 Sanitary napkins, Supporter belts for. A. Schmid. No. 152,986; Mar. 7.
 Sanitation-process and organic-waste-reduction systems and parts thereof. Cobwell Corporation. No. 151,453; Feb. 7.
 Sardines. Bordeaux & New York Trading Co. Nos. 153,413-14; Mar. 21.
 Sardines. Bordeaux & New York Trading Co. No. 158,618; Sept. 12.
 Sardines. Bordeaux & New York Trading Co. No. 160,396; Oct. 24.
 Sardines and preserved fish. Massó Hermanos. No. 154,582; Apr. 18.
 Sardines, Smoked. I. Epstein. No. 156,864; July 18.
 Sarsaparilla. White Rock Mineral Springs Company. No. 152,640; Feb. 28.
 Sash, doors, blinds, etc. Wm. Cameron & Co. No. 160,405; Oct. 24.
 Sashes, Metal window. Federal Bridge and Structural Co. No. 155,686; June 6.
 Satin cloth in piece goods. Juddins & McCormick Company. No. 150,860; Jan. 10.
 Satin in the piece. Shoe Products Co. No. 161,623; Nov. 14.
 Sauce and ingredient for sauces. La Societe Anonyme des Amidonnerie & Rizerie de France. No. 154,795; May 9.
 Sauce for meats, fish, game, gravies, and soup. Lea & Perrins. No. 21,208; renewed May 31, 1922.
 Sauce, Table. Redondo Packing Corp. No. 160,801; Oct. 24.
 Sausage. Swift and Company. No. 151,968; Feb. 14.
 Sausage, Pork. J. H. Allison & Co. No. 162,422; Dec. 12.
 Sausage, Pork. Detroit Packing Co. No. 159,615; Sept. 26.
 Sausage, Pork. Joseph Stern & Sons, Inc. No. 159,542; Sept. 26.
 Sausage, bacon, ham, scrapple. H. S. Schafer. No. 152,985; Mar. 7.
 Sausage casings, Pork-. California Casing Co. No. 155,940; June 13.
 Sausage, potted meats, corned-beef hash, and cereals. Jacob E. Decker & Sons. No. 151,733; Feb. 14.
 Sawing and trimming machines. Hill-Curtis Co. No. 161,785; Nov. 21.
 Sawmill and woodworking machinery, etc. American Saw Mill Machinery Co. No. 153,912; Mar. 28.
 Sawmill dogs. Lane Manufacturing Company. No. 160,100; Oct. 10.
 Saws. Henry Disston & Sons, Incorporated. No. 161,763; Nov. 21.
 Saws. Henry Disston & Sons, Incorporated. No. 162,062; Dec. 5.
 Saws. W. T. Grant. No. 157,259; July 25.
 Saws. Shurly & Dietrich. Nos. 21,688-9; renewed Aug. 23, 1922.
 Saws and files, Hack. Simonds Manufacturing Company. No. 154,386; Apr. 11.
 Saws, ripping and band sawing machines, etc., Miter bench. C. E. Tannevitz. No. 162,024; Nov. 28.
 Saws and hack-saw blades, machines for sawing metal, Power hack. Racine Tool and Machine Company. Nos. 151,399-400; Jan. 31.
 Saws, saw sets, and screw drivers. Henry Disston & Sons, Incorporated. No. 155,221; May 23.
 Saxophones. Buescher Band Instrument Co. No. 154,891; May 16.
 Saxophones, clarinets, piccolos, flutes, and horns. Martin Band Instrument Company. No. 155,161; May 16.
 Scales and weighing machines. Jones of Binghamton Co. No. 162,791; Dec. 26.
 Scales, Computing. National Store Specialty Company. No. 158,356; Aug. 29.
 Scales for use in instruments for testing the hardness of solid bodies. Shore Instrument and Manufacturing Co. Nos. 151,405-6; Jan. 31.
 Scales, Weighing. N. A. Kennedy Supply Co. No. 153,772; Mar. 28.
 Scales, Weighing. Landers, Frary & Clark. No. 152,607; Feb. 28.
 Scales, Weighing. Mason, Davis & Company. No. 153,792; Mar. 28.
 Scales, weighing. Smith Scale Company. No. 154,452; Apr. 11.
 Scalp and hair tonic. M. Shaffer Company. No. 157,834; Aug. 15.
 Scalp tonic. H. A. Parrish. No. 158,054; Aug. 22.
 Scarfs. American Hosiery Company. No. 154,474; Apr. 18.
 Scarfs for personal wear. M. S. Carson. No. 150,763; Scissors. Samstag & Hilder Bros. No. 158,292; Aug. 29.
 Scissors and shears. Acme Shear Company. No. 154,856; May 16.
 Scissors and shears. Acme Shear Company. No. 156,605; July 11.
 Scissors and shears. Acme Shear Company. No. 159,248; Sept. 26.
 Scissors and shears. Clayton Mfg. Co. No. 157,616; Aug. 8.
 Scissors and shears, Cast-iron. Acme Shear Company. No. 153,092; Mar. 14.
 Scissors, nail clippers, files, and tweezers. Manicure. Mappin & Webb, Limited. No. 162,543; Dec. 19.
 Scouring cloths. Chore Utensils Corporation of America. No. 162,703; Dec. 26.
 Scouring cloths. R. B. Kingman. No. 155,734; June 6.
 Scouring powders and soaps. Fox River Company. No. 151,766; Feb. 14.
 Screen separating machines, Vibrated. W. S. Tyler Company. No. 152,523; Feb. 28.
 Screen wire, door steps, transom lifts, knobs, drawer pulls, etc. Wm. Cameron & Co. No. 156,198; June 20.
 Screens and bolts. Wheeling Machine Products Company. No. 152,546; Feb. 28.

- Screens, Window and door. Acme Screen Company. No. 154,855; May 16.
- Screw drivers. Stanley Works, The. No. 151,408; Jan. 31.
- Screw drivers. H. D. Smith & Company. No. 162,894; Dec. 26.
- Screws, Wood. Eagle Lock Co. No. 153,708; Mar. 28.
- Scrim in the piece. Boott Mills. No. 159,664; Oct. 3.
- Seal presses. M. H. Jackson. No. 154,982; May 16.
- Sealing tape. Standard Paper Co. No. 153,537; Mar. 21.
- Seals completely printed and ready for use on packages. F. E. Mason & Sons. No. 151,864; Feb. 14.
- Seasoning preparations. D. C. Blacker. No. 152,688; Mar. 7.
- Seasonings. Maggi Co. No. 154,622; Apr. 18.
- Seasonings for soups, consommé, sauces, etc. Maggi Co. No. 151,860; Feb. 14.
- Seat pads or cushions. M. C. Ukman. No. 157,783; Aug. 15.
- Seats, Toilet. Beneke & Kropf Manufacturing Company. No. 161,407; Nov. 14.
- Seats, Water-closet. N. O. Nelson Manufacturing Company. No. 157,275; July 25.
- Sedative and hypnotic. Winthrop Chemical Company. No. 155,871; June 6.
- Sedative, antispasmodic, analgesic, and hypnotic. A. Buisson. No. 161,755; Nov. 21.
- Sedative for relieving spasms and colic. Chemische Fabrik vormals Sandoz. Nos. 150,288-9; Jan. 3.
- Seed, Alfalfa. Bomberger Seed Company. No. 153,979; Apr. 4.
- Seed, Cotton. F. D. Watson. No. 156,462; June 20.
- Seed, Farm. Springfield Seed Co. No. 154,156; Apr. 4.
- Seed, Farm. Springfield Seed Co. No. 155,841; June 6.
- Seed, Grass. I. Ostberg. No. 160,263; Oct. 17.
- Seed, Lawn-grass. J. O. Johnson. No. 152,203; Feb. 21.
- Seed, Lawn-grass. J. O. Johnson. No. 153,476; Mar. 21.
- Seed, Lawn-grass. J. O. Johnson. No. 155,992; June 13.
- Seed, Sweet turnip and beet. Dr. Friedrich Bergmann, G. m. b. H. No. 155,928; June 13.
- Seed, Vegetable and flower. American Seed Company. Nos. 151,370-1; Jan. 31.
- Seeds. Peter Henderson & Co. No. 155,978; June 13.
- Seeds. J. G. Peppard Co. No. 156,389; June 20.
- Seeds. Stark Bros. Nurseries & Orchards Co. No. 156,061; June 13.
- Seeds. Van Antwerp's Drug Corporation. No. 152,635; Feb. 28.
- Seeds and grains. H. C. King & Sons. No. 160,553; Oct. 24.
- Seeds, bulbs, roots, and plants. Vegetable, flower, and field. W. Atlee Burpee Co. No. 160,145; Oct. 17.
- Seeds, Field and garden. Pease & Dwyer Co. No. 160,632; Oct. 24.
- Seeds, Field and grass. Doughten Seed Company. No. 162,725; Dec. 26.
- Seeds, Grass and field. Doughten Seed Company. Nos. 155,671-2; June 6.
- Seeds used as food for birds. Kaempfer's Incorporated. No. 152,204; Feb. 21.
- Selenium colloids. Collene Laboratories Inc. No. 157,906; Aug. 22.
- Separators and churns. E. M. Salenius. No. 155,816; June 6.
- Serge in the piece. Bruner Woolen Co. No. 158,335; Aug. 29.
- Serge in the piece. M. M. Scher. No. 157,761; Aug. 15.
- Serum for anti-hog-cholera. Pitman-Moore Company. No. 155,349; May 23.
- Serum for the treatment of cancer. A. G. Grenoble. No. 158,970; Sept. 19.
- Serum for treatment of tuberculosis. A. del Garcia. No. 150,373; Jan. 3.
- Sewage-treatment systems and parts thereof. Sanitation Corporation. No. 151,592; Feb. 7.
- Sewing machines. Goldberg Padding Machine Company. No. 150,825; Jan. 10.
- Sewing machines. Guhl & Harbeck. No. 152,418; Feb. 28.
- Sewing machines and attachments. New Home Sewing Machine Company. No. 159,459; Sept. 26.
- Sewing machines and controllers therefor, Electric motors for. Singer Manufacturing Company. No. 161,905; Nov. 21.
- Sewing machines and parts thereof, etc. Gustav Winselmann. Gesellschaft mit beschränkter Haftung. No. 162,769; Dec. 26.
- Sewing machines, Loopers for overseaming and overedging. Merrow Machine Company. No. 160,238; Oct. 17.
- Sewing machines, Loopers for overseaming and overedging. Merrow Machine Company. Nos. 161,808-15; Nov. 21.
- Sewing machines, overseaming and crochet sewing machines. Merrow Machine Company, The. No. 151,396; Jan. 31.
- Sewing machines, their parts and attachments. Singer Manufacturing Company. No. 155,081; May 16.
- Sex of human beings and animals and of the embryo of eggs. Instruments for indicating. J. H. Arnold. No. 150,716; Jan. 10.
- Shade brackets, Window-. S. A. Maxwell & Co. No. 159,434; Sept. 26.
- Shade cloth in the piece, Window-. Columbia Mills, Inc. No. 159,682; Oct. 3.
- Shade roller. Interstate Shade Cloth Co. No. 150,417; Jan. 3.
- Shade rollers. Interstate Shade Cloth Co. No. 157,527; Aug. 8.
- Shade, Window. Lapsley & Bros. Company. No. 157,272; July 25.
- Shades, Supporting, guiding, and other fixtures and appliances for window. Hough Shade Corporation. No. 162,086; Dec. 5.
- Shades, Window. Paris Manufacturing Company. No. 151,899; Feb. 14.
- Shades, Wood-slat. Hough Shade Corporation. No. 162,271; Dec. 12.
- Shampoo. E. Burnham, Inc. No. 159,828; Oct. 10.
- Shampoo. H. H. Kuntzmann. No. 155,740; June 6.
- Shampoo. Misti Laboratory Co. No. 155,765; June 6.
- Shampoo. L. O. Noddsle. No. 152,245; Feb. 21.
- Shampoo and tonic for the hair. F. Wechsler. No. 150,642; Jan. 3.
- Shampoo and hair wash. S. Markman. No. 159,719; Oct. 3.
- Shampoo compound. Concentrated Products Corporation. No. 157,482; Aug. 8.
- Shampoo cream. W. T. Krusch. No. 159,925; Oct. 10.
- Shampoo for hair and scalp. W. Zimmerman. No. 157,443; Aug. 1.
- Shampoo, Henna. East and West Trading Corporation. No. 152,159; Feb. 21.
- Shampoo, liniment, medicated alcohol, mange mixture. J. G. Goldenberg. No. 160,871; Oct. 31.
- Shampoo, Liquid. W. W. Winberg. No. 161,343; Nov. 7.
- Shampoo liquid composition, balsams, and ointments for eczema, Medicated. R. D. Hill Company. No. 161,166; Nov. 7.
- Shampoo. Olive-oil. White-Dove Laboratories. No. 157,402; Aug. 1.
- Shampoo preparation. Martyn Soap Company. No. 154,095; Apr. 4.
- Shampooing preparation. R. C. Brown. No. 155,627; June 6.
- Shampoos. Aladdin Products Company. No. 155,593; June 6.
- Shapers and crank planers. Cincinnati Shaper Co. No. 155,145; May 16.
- Shaft hangers. Bond Foundry and Machine Company. Nos. 162,682-3; Dec. 26.
- Sharpening and stropping machine, Blade. J. R. Anderson. No. 150,714; Jan. 10.
- Sharpeners, Tool. S. Cheney & Sons. No. 161,757; Nov. 21.
- Shaving outfit, Sanitary. A. J. Eisenberg. No. 154,539; Apr. 18.
- Shaving stick and powder. J. B. Williams Company. No. 151,061; Jan. 10.
- Shawls and sweaters. Ideal Linen Mesh Co. No. 160,213; Oct. 17.
- Shears and scissors. Acme Shear Company. No. 160,078; Oct. 10.
- Shears and scissors. J. S. Torrence. No. 158,364; Aug. 29.
- Shears, scissors, snips, clippers, razors, razor blades. J. Wiss & Sons Co. No. 160,077; Oct. 10.
- Shears, scissors, snips, clippers, razors, razor blades. J. Wiss & Sons Co. No. 160,744; Oct. 24.
- Sheathing and building paper. Flintkote Company. No. 160,184; Oct. 17.
- Sheet-metal bands and wire manufactured for electrotechnical purposes. Berndorfer Metallwarenfabrik Arthur Krupp A-G. No. 162,681; Dec. 26.
- Sheet metal, Ferrous and nonferrous. N. & G. Taylor Co. No. 161,843; Nov. 21.
- Sheeting. Lanett Cotton Mills. No. 154,991; May 16.
- Sheeting, blankets, sheets, etc. J. H. C. Petersen's Sons Company. No. 161,259; Nov. 7.
- Sheeting in the piece, Cotton. Berkeley Company. No. 152,347; Feb. 28.
- Sheeting, sheets, and pillowcases. Carter Dry Goods Co. No. 158,915; Sept. 19.
- Sheetings. Belton Mills. No. 162,677; Dec. 26.
- Sheetings. Pearl Cotton Mills. No. 155,505; May 30.
- Sheetings. Pelzer Manufacturing Company. No. 158,055; Aug. 22.
- Sheetings and drills. Orr Cotton Mills. No. 152,476; Feb. 28.
- Sheetings, Cotton. Columbus Manufacturing Company. No. 157,479; Aug. 8.
- Sheetings, Cotton. Columbus Manufacturing Company. No. 159,683; Oct. 3.
- Sheets. Marshall Field & Company. No. 155,577; May 30.
- Sheets and pillowcases. Ely & Walker Dry Goods Company. No. 153,159; Mar. 14.
- Sheets and pillowcases. Marshall Field & Company. No. 150,893; Jan. 10.
- Sheets and pillowcases. Marshall Field & Company. No. 152,318; Feb. 21.
- Sheets and pillowcases. R. H. Macy & Co. No. 159,030; Sept. 19.
- Sheets and pillowcases. Ernest Simons Mfg. Co. No. 157,767; Aug. 15.
- Sheets and pillowcases, and cotton goods in the piece. Erwin Cotton Mills Co. No. 152,164; Feb. 21.
- Sheets and pillowcases, Cotton. Clarence Whitman & Son. No. 153,060; Mar. 7.
- Sheets and pillowcases, Cotton. Clarence Whitman & Son. No. 154,420; Apr. 11.

Alphabetical list of trade-marks—Continued.

- Sheets, Galvanized. American Sheet & Tin Plate Company. No. 160,364; Oct. 24.
- Sheets, pillowcases, and bolster cases, Bed. Royle Craven Company. No. 157,036; July 25.
- Sheets, sheetings, and pillowcases. Cooper, Coate & Casey Dry Goods Co. No. 152,141; Feb. 21.
- Sheets, tubes, and rods composed of a mixture of nitro-cellulose and camphor. Iwai & Co. of New York. No. 151,148; Jan. 24.
- Shellac substitute. Mantrose Corporation. No. 155,004; May 16.
- Shellac, Substitute for prepared. Lowe Brothers Company. No. 155,000; May 16.
- Shells, Shot. Western Cartridge Company. No. 159,784; Oct. 3.
- Shields, Armpit. Brooklyn Shield Co. No. 20,911; renewed Mar. 29, 1922.
- Shields, Armpit. Brooklyn Shield Co. No. 20,970; renewed Apr. 12, 1922.
- Shields or pads for corns, etc., Adhesive medicated. Scholl Manufacturing Company. No. 161,289; Nov. 7.
- Shims. J. L. Bredar. No. 161,753; Nov. 21.
- Shingles. Barrett Company. No. 151,375; Jan. 31.
- Shingles. Central West Coal & Lumber Company. No. 160,148; Oct. 17.
- Shingles. H. H. Honigbaum. No. 159,707; Oct. 3.
- Shingles, Asphalt. Ford Roofing Products Co. No. 157,414; Aug. 1.
- Shingles, Asphalt. Ford Roofing Products Co. No. 161,871; Nov. 21.
- Shingles, Creosote-stained. H. S. Barber. No. 159,654; Oct. 3.
- Shingles, Red-cedar. Grays Harbor Shingle Co. No. 159,702; Oct. 3.
- Shingles, roofing paper, etc. Noll-Welty Lumber Company. No. 152,570; Feb. 28.
- Shingles, Wood. Grays Harbor Shingle Company. No. 152,411; Feb. 28.
- Shingles, Wood. Arthur E. Lane Lumber Corp. No. 160,228; Oct. 17.
- Shipping and packing boxes for poultry. Anderson Box Company. No. 162,423; Dec. 12.
- Shipping cases. W. H. Doble. Nos. 158,938-9; Sept. 19.
- Shipping containers. Ashtabula Corrugated Box Co. No. 150,228; Jan. 3.
- Shipping containers. Decy Iceless Express Container Co. No. 150,328; Jan. 3.
- Shipping drums and containers used for food products, chemicals, etc. H. L. Carpenter. No. 150,762; Jan. 10.
- Shirt and drawers, Combination sport. Rothschild & Sons. No. 157,194; July 25.
- Shirt bands. A. Steinhart & Bro. Inc. No. 161,641; Nov. 14.
- Shirt-waist hangers. M. N. Faulk. No. 162,748; Dec. 26.
- Shirting. Baker-Poston-Hemphill & Co. No. 154,224; Apr. 11.
- Shirting in the piece, Cotton. Burton Bros. & Co. No. 161,428; Nov. 14.
- Shirting material. Cooper, Choate & Casey Dry Goods Co. No. 152,054; Feb. 14.
- Shirtings. Turner & Walls. No. 156,449; Jan. 20.
- Shirtings and percales, Printed. Everett, Heaney & Co. No. 162,742; Dec. 26.
- Shirtings in the piece woven from silk, cotton, or a mixture of the same. Turner & Walls. No. 159,773; Oct. 3.
- Shirts. Banner Shirt Co. No. 161,051; Nov. 7.
- Shirts. Greenbaum, Weil & Michels. No. 157,084; July 25.
- Shirts. Rauh Bros. & Co. No. 157,182; July 25.
- Shirts and blouses, Boys'. Ernest Simons Mfg. Co. No. 161,627; Nov. 14.
- Shirts and boys' blouses and play suits, Men's and boys' work. J. C. Penney Co. No. 156,909; July 18.
- Shirts and boys' negligee shirts, etc., Men's. Fowler-Nicolet Co. No. 160,186; Oct. 17.
- Shirts and boys' outer shirts and blouses, Men's. Bob & Baskind. No. 158,899; Sept. 19.
- Shirts and boys' shirts and blouses, Men's. Bob & Baskind. No. 154,498; Apr. 18.
- Shirts and collars. Cluett, Peabody & Co. No. 154,193; Apr. 4.
- Shirts and outer clothing, Negligee. Guiterman Brothers. No. 161,494; Nov. 14.
- Shirts and pyjamas, Negligee and work. C. Milich. No. 160,241; Oct. 17.
- Shirts and underwear, Men's dress. George E. Sweetser Company. No. 157,590; Aug. 8.
- Shirts and waistcoats, Negligee and dress. Earl & Wilson. No. 161,456; Nov. 14.
- Shirts, Bed. R. K. Viles. No. 161,335; Nov. 7.
- Shirts, blouses, and wash suits. Boys' and youths'. Bob & Goldfarb. No. 153,411; Mar. 21.
- Shirts, boys' blouses and playsuits, Men's and boys' work. J. C. Penney Company. No. 158,771; Sept. 12.
- Shirts, boys' shirts and blouses, Men's. Bob & Baskind. No. 157,871; Aug. 22.
- Shirts, Dress. Daniel T. Patton and Company. No. 159,060; Sept. 19.
- Shirts, Dress and negligee. Carson, Pirie, Scott & Co. No. 151,294; Jan. 24.
- Shirts, Dress and negligee. Herzfeld-Phillipson Company. No. 157,096; July 25.
- Shirts, Dress and negligee. Rainbow Shirt Corporation. No. 156,741; July 11.
- Shirts, Dress and negligee. Roggen Bros. & Co. No. 156,811; July 11.
- Shirts, Dress and negligee. M. Shaw. No. 158,808; Sept. 12.
- Shirts, Dress, negligee, and work. Colorfast Shirt Co. No. 162,007; Nov. 28.
- Shirts, Dress, negligee, and work. Royal Shirt Co. No. 156,048; June 13.
- Shirts, Flannel. Baker-Poston-Hemphill & Co. No. 154,485; Apr. 18.
- Shirts for women, Sport. Max Held, Inc. No. 161,159; Nov. 7.
- Shirts, Men's. David Lieberman & Co. No. 161,206; Nov. 7.
- Shirts, Men's and boys'. North Bros. & Co. No. 157,160; July 25.
- Shirts, Men's and boys' negligee and work. Sigmund Eisner Company. No. 157,670; Aug. 15.
- Shirts, Men's dress. T. Kaplan. No. 154,447; Apr. 11.
- Shirts, Men's dress. L. Miller. No. 155,162; May 16.
- Shirts, Men's dress. G. A. Ripley. No. 158,073; Aug. 22.
- Shirts, Men's dress, negligee, and work. Meyer & Stein. No. 156,138; June 13.
- Shirts, Men's outer. McMullen-Leavens Co. No. 158,742; Sept. 12.
- Shirts, Men's outer. Jacob Miller Sons & Co. No. 161,174; Nov. 7.
- Shirts, Men's outer. Spokane Dry Goods Company. No. 154,707; Apr. 18.
- Shirts, Men's silk dress. A. Chanovitz. No. 151,707; Feb. 14.
- Shirts, Men's work and dress. Charles Alshuler Manufacturing Company. No. 156,113; June 13.
- Shirts, mittens, and gloves. Biltwell Glove Company. No. 159,167; Sept. 19.
- Shirts, Negligee. Jackson & Gutman Company. No. 156,806; July 11.
- Shirts, Negligee. Henry Myer & Company. No. 155,163; May 16.
- Shirts, Negligee and work. Sigmund Eisner Company. No. 157,048; July 25.
- Shirts, night robes, and pyjamas, Men's. Wachusett Shirt Co. No. 156,149; June 13.
- Shirts, night robes, pyjamas. Wachusett Shirt Co. No. 150,999; Jan. 10.
- Shirts, One-piece work. C. P. Brown Mfg. Co. No. 160,141; Oct. 17.
- Shirts, Outer. Katz & Davidson. No. 152,088; Feb. 14.
- Shirts, pyjamas, and nightgowns, Dress and work. F. Jacobson & Sons. No. 156,132; June 13.
- Shirts, pyjamas, collars, cuffs, etc., Dress, negligee, and work. Goldsmith & Lerner. No. 161,145; Nov. 7.
- Shirts, pyjamas, nightshirts, underwear. C. Wax. No. 155,863; June 6.
- Shirts, pyjamas, underwear, Night. Tyson Shirt Company. No. 154,718; Apr. 18.
- Shirts, shirt waists, and waists. A. Neville. No. 155,344; May 23.
- Shirts with reversible cuffs. Venus Manufacturing Company. No. 156,821; July 11.
- Shirts, undershirts, collars, pyjamas, and drawers. Enro Shirt Company. No. 162,068; Dec. 5.
- Shirts, Work. American Wholesale Corporation (Baltimore Bargain House). No. 158,596; Sept. 12.
- Shirts, Work. Feldman & Weinman. No. 158,948; Sept. 19.
- Shirts, Work. Feldman & Weinman. Nos. 161,466-7; Nov. 14.
- Shirts, Work. Daniel T. Patton and Company. No. 159,061; Sept. 19.
- Shirts, Work. Reliance Manufacturing Company. No. 154,668; Apr. 18.
- Shirts, Work. Reliance Manufacturing Company. No. 157,746; Aug. 15.
- Shirts, Work. Rombro Brothers. No. 157,193; July 25.
- Shirts, Work. Western Shirt Company. No. 161,667; Nov. 14.
- Shock absorber for motor vehicles. Allith-Prouty Company. No. 153,570; Mar. 21.
- Shock absorbers. Starkweather-Snook Corporation. No. 154,164; Apr. 4.
- Shock absorbers and radiator shutters. Packard Engineering Co. No. 160,613; Oct. 24.
- Shock absorbers (automobile). Hayes Shock Absorber Co. No. 159,188; Sept. 19.
- Shock absorbers for automobiles. Marvel Shock Absorber Corporation. No. 57,145; July 25.
- Shock absorbers for Ford cars. Robert H. Hassler, Inc. No. 159,624; Sept. 26.
- Shock absorbers for motor vehicles. H. L. G. Manufacturing Company. No. 151,807; Feb. 14.
- Shock absorbers for vehicles. A. N. Anthes. No. 152,664; Mar. 7.
- Shock absorbers, Pneumatic. Kane Sales Company. No. 160,546; Oct. 24.
- Shock pneumatic tools and hand tools. A. O. J. Tool Company. No. 159,245; Sept. 26.
- Shoe and leather dressing. E. Nutter. No. 157,729; Aug. 15.
- Shoe and leather dressing. Whittemore Brothers Corporation. No. 152,006; Feb. 14.

- Shoe cabinets, Domestic. Shu-Betty Company. No. 152,996; Mar. 7.
- Shoe creams. Henry Skantze & Co. No. 162,593; Dec. 19.
- Shoe dressing. A. V. Oxley. No. 152,928; Mar. 7.
- Shoe dressing. R. H. Sherman. No. 162,362; Dec. 12.
- Shoe holders. C. E. Schmidt. Nos. 160,659-60; Oct. 24.
- Shoe laces. Baker-Poston-Hemphill & Co. No. 155,607; June 6.
- Shoe laces. Huttmacher Braiding Company. Nos. 151,812-13; Feb. 14.
- Shoe laces, Mercerized. W. C. Johnson. No. 156,694; July 11.
- Shoe parts—namely, rubber heels. Brooks & Co. No. 151,000; Jan. 24.
- Shoe patterns. Wiechman Pattern Company. No. 151,639; Feb. 7.
- Shoe plates. F. Hachmann. No. 157,513; Aug. 8.
- Shoe plates. Universal Shoe Plate Company. No. 157,598; Aug. 8.
- Shoe polish. J. H. T. Olsen. No. 159,466; Sept. 26.
- Shoe polish. Whitman Shoe Polish Mfg. Co. No. 160,043; Oct. 10.
- Shoe racks. Charles W. H. Moulton. No. 153,938; Mar. 28.
- Shoe shanks, Metal. Sandow Tool Co. U. S. A. No. 160,656; Oct. 24.
- Shoes. Anderson-Dulin-Varnell Co. No. 161,398; Nov. 14.
- Shoes. Bluff City Shoe Company. Nos. 154,493-4; Apr. 18.
- Shoes. S. J. Brouwer Shoe Company. No. 161,083; Nov. 7.
- Shoes. Brown Shoe Company. Nos. 156,111-12; June 13.
- Shoes. Brown Shoe Company. No. 157,012; July 25.
- Shoes. Brown Shoe Company. No. 157,014; July 25.
- Shoes. Edwin Clapp & Son. No. 154,515; Apr. 18.
- Shoes. Davies Shoe Manufacturing Co. No. 162,490; Dec. 19.
- Shoes. Val Duttonhofer Sons Company. No. 154,724; Apr. 18.
- Shoes. T. F. Emans. No. 161,127; Nov. 7.
- Shoes. The Fair. No. 156,119; June 13.
- Shoes. The Fair. Nos. 156,243-4; June 20.
- Shoes. R. H. Foerderer. No. 20,721; renewed Feb. 16, 1922.
- Shoes. Leo Hart, Inc. No. 156,128; June 13.
- Shoes. Henning Boot Shop, Inc. No. 154,754; Apr. 18.
- Shoes. Hilgert Shoe Corporation. No. 154,755; Apr. 18.
- Shoes. Ideal Shoe Manufacturing Company. No. 157,109; July 25.
- Shoes. Johansen Bros. Shoe Company. No. 162,089; Dec. 5.
- Shoes. Julian & Kokege Co. No. 157,696; Aug. 15.
- Shoes. Lord & Taylor. No. 154,614; Apr. 18.
- Shoes. L. Mark. No. 151,190; Jan. 24.
- Shoes. Maryland Shoe Corporation. No. 161,226; Nov. 7.
- Shoes. H. W. Merriam Shoe Company. No. 161,561; Nov. 14.
- Shoes. Walter H. More Co. No. 158,502; Sept. 5.
- Shoes. Morse and Burt Co. No. 158,505; Sept. 5.
- Shoes. Morse & Burt Co. No. 158,748; Sept. 12.
- Shoes. Morse & Burt Co. No. 161,241; Nov. 7.
- Shoes. Nathan, Morphy & Co. No. 157,159; July 25.
- Shoes. Norman & Bennett, Inc. No. 162,016; Nov. 28.
- Shoes. Novelty Shoe Company. No. 154,644; Apr. 18.
- Shoes. G. E. Peirce. No. 158,768; Sept. 12.
- Shoes. T. J. Reid Shoe Co. No. 162,984; Dec. 26.
- Shoes. Sachs' Shoe Manufacturing Company. No. 154,678; Apr. 18.
- Shoes. Sachs' Shoe Manufacturing Company. No. 157,197; July 25.
- Shoes. Sargent Shoe Company. No. 159,216; Sept. 19.
- Shoes. Sheppard & Myers, Inc. No. 154,762; Apr. 18.
- Shoes. B. I. J. Stam. No. 151,956; Feb. 14.
- Shoes. Timson Bros. Inc. No. 161,318; Nov. 7.
- Shoes. Wearwell Shoe Co. No. 161,385; Nov. 7.
- Shoes. Whitehouse & Hardy, Inc. No. 163,002; Dec. 26.
- Shoes. Robert Wise Company. No. 151,287; Jan. 24.
- Shoes. Robert Wise Company. No. 156,143; June 13.
- Shoes. Wolock & Bauer. No. 154,745; Apr. 18.
- Shoes and boots. Churchill & Alden Co. No. 154,514; Apr. 18.
- Shoes and boots. Churchill & Alden Co. No. 157,477; Aug. 8.
- Shoes and boots. Excelsior Shoe Company. No. 157,056; July 25.
- Shoes and boots, Leather. B. Ross. No. 158,793; Sept. 12.
- Shoes and combinations of the same, Leather, fabric, and rubber. Levy & Weiss Shoe Co. No. 158,731; Sept. 12.
- Shoes and leather, Compound for preserving and waterproofing. Penn Leather Preserving Co. No. 157,742; Aug. 15.
- Shoes and leather goods. Cleaning fluid for. Owl Drug Company. No. 159,057; Sept. 19.
- Shoes and leather shoe soles, Leather. R. K. L. Company. No. 157,189; July 25.
- Shoes and moccasins. Mater-Mack Co. No. 157,148; July 25.
- Shoes and oxfords. W. R. Coon Co. No. 161,356; Nov. 7.
- Shoes and oxfords, Leather. Guthmann, Carpenter & Telling. No. 156,126; June 13.
- Shoes and slippers, Felt. Lind Shoe and Slipper Co. No. 154,609; Apr. 18.
- Shoes and slippers, Felt. Little Falls Felt Shoe Company. No. 156,001; June 13.
- Shoes and slippers, Infants' and children's turn. Macungie Shoe Manufacturing Company. No. 155,159; May 16.
- Shoes and slippers, Leather. Nay Shoe Company. No. 162,973; Dec. 26.
- Shoes and soles, Leather. R. K. L. Company. No. 154,671; Apr. 18.
- Shoes and slippers, Leather, rubber, fabric, and combination. V. Richter. No. 161,275; Nov. 7.
- Shoes, Antislipping attachment for. R. O. Bardon. No. 160,384; Oct. 24.
- Shoes, Appliance for obtaining casts for fitting. Morse & Burt Co. No. 159,447; Sept. 26.
- Shoes, boots, and slippers. W. Lewis and Company. No. 162,968; Dec. 26.
- Shoes, boots, and slippers, Felt. Standard Felt Company. No. 159,225; Sept. 19.
- Shoes, boots, pumps, oxfords, slippers, rubbers, over-shoes. Shoeteria Shoe Company. No. 156,417; June 20.
- Shoes, boots, slippers, and sandals. H. Malkin's Sons. No. 156,137; June 13.
- Shoes, boots, slippers, pumps, oxfords. F. Werner. No. 157,605; Aug. 8.
- Shoes, Boys' fabric and leather. E. Byrnes. No. 151,696; Feb. 14.
- Shoes, Children's. Craddock-Terry Company. No. 155,948; June 13.
- Shoes, Children's. F. Levy Shoe Co. No. 158,730; Sept. 12.
- Shoes, Children's. A. I. Namm & Son, Inc. No. 162,099; Dec. 5.
- Shoes, Children's leather. Associated Merchandising Corporation. No. 150,717; Jan. 10.
- Shoes, Children's leather. Imperial Children's Shoe Corporation. No. 150,855; Jan. 10.
- Shoes, fabric, rubber, rubber-composition, and leather. Shaft-Pierce Shoe Co. No. 152,992; Mar. 7.
- Shoes for children. Brown Shoe Company. No. 151,092; Jan. 24.
- Shoes for children, made of leather. Sanger Brothers, Inc. No. 151,935; Feb. 14.
- Shoes, Girls', boys', and babies'. Van Degriest's. No. 156,148; June 13.
- Shoes, Girls' leather. S. T. Sorensen. No. 162,121; Dec. 5.
- Shoes, Infants' soft-sole. Stevens Soft Sole Shoe Co. No. 156,433; June 20.
- Shoes, Ladies'. Smaltz-Goodwin Company. No. 154,699; Apr. 18.
- Shoe, Ladies'. Smaltz-Goodwin Company. No. 155,086; May 16.
- Shoes, Ladies' and misses' leather. Kohn-Fechheimer. No. 156,806; July 11.
- Shoes, Ladies' and misses' leather. Krippendorf-Dittmann Co. No. 157,123; July 25.
- Shoes, Leather. Alden Walker & Wilde Incorporated. No. 162,147; Dec. 5.
- Shoes, Leather. Allen-Squire Company. No. 155,135; May 16.
- Shoes, Leather. Allen-Squire Company. No. 161,396; Nov. 14.
- Shoes, Leather. T. D. Barry Company. No. 161,053; Nov. 7.
- Shoes, Leather. J. J. Daly. No. 150,321; Jan. 3.
- Shoes, Leather. H. E. Davis Co. No. 153,582; Mar. 21.
- Shoes, Leather. O. E. De Ridder. No. 161,112; Nov. 7.
- Shoes, Leather. Edmonds Shoe Company. No. 154,439; Apr. 11.
- Shoes, Leather. Edmonds Shoe Company. No. 156,235; June 20.
- Shoes, Leather. Endicott Johnson Corporation. No. 161,178; Nov. 7.
- Shoes, Leather. Ensign Shoe Co. No. 162,069; Dec. 5.
- Shoes, Leather. Gotham Shoe Mfg. Co. No. 154,553; Apr. 18.
- Shoes, Leather. Graham-Bumgarner Company. No. 152,069; Feb. 14.
- Shoes, Leather. Hagerstown Shoe & Legging Co. No. 156,127; June 13.
- Shoes, Leather. J. S. Hall's Sons. No. 157,092; July 25.
- Shoes, Leather. H. Heicklen. No. 154,753; Apr. 18.
- Shoes, Leather. Herzfeld-Phillipson Company. No. 161,499; Nov. 14.
- Shoes, Leather. Hoerr-Adam Shoe Company. No. 152,027; Feb. 14.
- Shoes, Leather. William Lane, Inc. No. 161,369; Nov. 7.
- Shoes, Leather. A. T. Lewis & Son Dry Goods Company. No. 161,203; Nov. 7.
- Shoes, Leather. London Shoe Co. No. 154,613; Apr. 18.
- Shoes, Leather. Lunn & Sweet Company. No. 159,024; Sept. 19.
- Shoes, Leather. Manchester Shoe Company. No. 154,202; Apr. 4.
- Shoes, Leather. Martin and Martin. No. 158,500; Sept. 5.
- Shoes, Leather. F. Mayer Boot & Shoe Co. No. 154,758; Apr. 18.
- Shoes, Leather. L. McMillan. No. 154,619; Apr. 18.
- Shoes, Leather. A. E. Nettleton Company. No. 159,206; Sept. 19.

Alphabetical list of trade-marks—Continued.

- Shoes, Leather. Nettleton Shops, Inc. No. 158,754; Sept. 12.
- Shoes, Leather. L. Selis. No. 154,693; Apr. 18.
- Shoes, Leather. M. A. Smith's Sons. No. 154,700; Apr. 18.
- Shoes, Leather. G. Vanderporten. No. 150,994; Jan. 10.
- Shoes, Leather and canvas. Maryland Shoe Corporation. No. 161,558; Nov. 14.
- Shoes, Leather and cloth. Boyd-Welsh Shoe Company. No. 154,495; Apr. 18.
- Shoes, Leather and fabric. Wm. Hahn & Co. No. 157,093; July 25.
- Shoes, Leather, canvas, rubber, and fabric. L. R. Carley. No. 162,038; Dec. 5.
- Shoes, Leather, felt, and combination of leather and rubber. Lane Brothers Company. No. 161,197; Nov. 7.
- Shoes, Leather, rubber, and fabric. James McCreery & Company. No. 156,336; June 20.
- Shoes, Leather, rubber, fabric, etc. L. A. Leopold. No. 159,017; Sept. 19.
- Shoes, Leather, rubber, fabric, or the combination thereof. International Shoe Co. No. 157,113; July 25.
- Shoes, Machinery used in manufacture of. Louis G. Freeman Co. No. 161,774; Nov. 21.
- Shoes made wholly or in part of leather. C. S. Wills. No. 162,180; Dec. 5.
- Shoes, Men's and boys'. Craddock-Terry Company. No. 157,035; July 25.
- Shoes, Men's leather. Brown Shoe Company. No. 157,013; July 25.
- Shoes, Men's leather. M. J. McFadden Co. No. 162,166; Dec. 5.
- Shoes, Men's leather. K-W Shoe Co. No. 158,724; Sept. 12.
- Shoes, Men's leather. W. E. Tuttle Company. No. 159,133; Sept. 19.
- Shoes of leather, Boys'. Brown Shoe Company. No. 151,689; Feb. 14.
- Shoes of leather, canvas, or a combination of both materials. Degen-Lipp, Inc. No. 156,229; June 20.
- Shoes of leather, fabric, and combinations. Morse & Burt Co. No. 153,254; Mar. 14.
- Shoes of leather, rubber, fabric, etc. F. A. Butler. No. 157,020; July 25.
- Shoes, overshoes, galoshes, moccasins, rubber boots, etc. Cohen-Sulkis Shoe Co. No. 156,116; June 13.
- Shoes, slippers, and moccasins. A. L. Day. No. 157,921; Aug. 22.
- Shoes, slippers, and moccasins. Leather. M. B. Lingenfelder Co. No. 151,848; Feb. 14.
- Shoes, slippers, and pumps. Stich & Adams, Inc. No. 154,710; Apr. 18.
- Shoes, slippers, boots, etc. Leather, fabric, etc. Wichert & Gardiner. No. 157,246; July 25.
- Shoes, Tennis. I. Goldberg and Sons. No. 158,964; Sept. 19.
- Shoes, Wear plates for. Empire Stamping Tool & Mfg. Co. No. 150,802; Jan. 10.
- Shoes, Women's. John Kelly Inc. No. 156,133; June 13.
- Shoes, Women's and children's. Craddock Terry Company. No. 161,104; Nov. 7.
- Shoes, Women's leather. Brown Shoe Company. No. 154,505; Apr. 18.
- Shoes, Women's leather. Craddock Terry Company. No. 158,924; Sept. 19.
- Shoes, Women's leather and cloth. Duttonhofer-Stevens Co. No. 154,535; Apr. 18.
- Shoes, Women's leather and combination. C. S. Gibbon Co. No. 156,263; June 20.
- Shoes, Wooden-heel fasteners for. Hercules Wood Heel Fastener Co. No. 159,375; Sept. 26.
- Shortening. D. A. Blanton. No. 156,568; June 27.
- Shoulder and body brace. W. D. Hardy. No. 153,460; Mar. 21.
- Shovels, Mechanical. Lake Superior Loader Co. No. 155,743; June 6.
- Shovels, spades, scoops, etc. Baldwin Tool Works. No. 162,627; Dec. 19.
- Showcases and store furniture. G. M. Schwartz. No. 153,524; Mar. 21.
- Sidewalks, Prepared mixture for the construction of. Cleveland Builders Supply and Brick Company. No. 153,137; Mar. 14.
- Sifters, combined separators and sifters, etc. Gedge-Gray Company. No. 162,758; Dec. 26.
- Sifters, Rotary. Jordan Marsh Company. No. 160,217; Oct. 17.
- Signals and trip mechanisms for automatically arresting operation of a machine. Time-controlled. Measure-graph Company. No. 152,458; Feb. 28.
- Signals, Direction. E. O. Lightner. No. 162,095; Dec. 5.
- Signs. Aultman, Inc. No. 151,668; Feb. 14.
- Signs. J. L. Dawes. No. 152,579; Feb. 28.
- Signs, Electrically-illuminated. Flexlume Sign Company. No. 160,863; Oct. 31.
- Signs, Electrically-illuminated. Flexlume Sign Company. No. 162,247; Dec. 12.
- Signs, Traveling-belt. Odle Brothers. No. 152,474; Feb. 28.
- Silica. Egyptian Mineral Co. No. 160,464; Oct. 24.
- Silk and artificial-silk piece goods. Golding Fabrics Corporation. No. 161,487; Nov. 14.
- Silk and cotton mixed goods in the piece. A. Millman. No. 154,333; Apr. 11.
- Silk and cotton mixed piece goods. Marshall Field & Company. No. 162,547; Dec. 19.
- Silk and cotton mixtures. Piece goods of. Muser Brothers. No. 156,361; June 20.
- Silk and cotton piece goods. Clarence Whitman & Son, Inc. No. 159,155; Sept. 19.
- Silk and cotton piece goods, Combination. Mains & Grebenstein. No. 154,321; Apr. 11.
- Silk and cotton warp mixture piece goods. Nathan and Cohen Co. No. 152,616; Feb. 28.
- Silk and dress satins, crêpe and silk shirtings, Broad. B. Edmund David, Inc. No. 155,218; May 23.
- Silk and muslin underwear, Ladies'. M. Paulson. No. 150,514; Jan. 3.
- Silk and satin piece goods. James McCreery & Company. No. 156,808; July 11.
- Silk and satin piece goods, shirtings, sheetings, etc. J. A. Migel, Inc. No. 155,488; May 30.
- Silk and silk and cotton fabrics. William Skinner & Sons. No. 154,388; Apr. 11.
- Silk and silk and cotton piece goods, and cotton goods in the piece. Oriental Silk Printing Company. No. 155,165; May 16.
- Silk and silk mixture fabrics. Wechsler Barber Silk Co. No. 152,543; Feb. 28.
- Silk and silk mixture fabrics in the piece. Wechsler Barber Silk Co. No. 161,663; Nov. 14.
- Silk, artificial-silk, linen, woolen, and cotton piece goods and combinations thereof. Haas Brothers Fabrics Corporation. No. 161,495; Nov. 14.
- Silk, cotton, and fiber textiles and mixtures thereof. J. Koike. No. 161,794; Nov. 21.
- Silk, cotton and silk, and cotton goods in the piece. Oriental Silk Printing Company. No. 161,577; Nov. 14.
- Silk, cotton, and wool piece goods and combinations of same. Turner and Walls. No. 162,921; Dec. 26.
- Silk, cotton, and woolen piece goods and a combination thereof. Walker Knitting Mills Inc. No. 157,790; Aug. 15.
- Silk, cotton, and woolen piece goods and combinations thereof. J. A. Migel, Inc. No. 159,721; Oct. 3.
- Silk, cotton, linen, wool, ramie, textile, and mixtures. A. S. Herrmann. No. 154,292; Apr. 11.
- Silk crêpes, satins, and silk goods in the piece. Zollinger & Schroth, Inc. No. 153,911; Mar. 28.
- Silk, drapery, and shade cloths, and curtain material. Loveman Brothers. No. 154,315; Apr. 11.
- Silk, drapery, shade cloth, and curtain materials. Loveman Brothers. No. 156,331; June 20.
- Silk, etc., goods in the piece and curtains made therefrom, and upholstery fabrics, Artificial. Thomas S. Dolan & Co. No. 162,723; Dec. 26.
- Silk fabrics in the piece. W. J. R. Frutchey & Co. No. 154,440; Apr. 11.
- Silk fabrics in the piece, Artificial. Melson, Clifford & Co. Limited. No. 161,560; Nov. 14.
- Silk fabrics in the piece, Woven, knitted, netted, and textile. A. Sterzelbach & Sons Co. No. 158,825; Sept. 12.
- Silk fiber, Artificial. Textile Manufacturing Co. No. 154,166; Apr. 4.
- Silk goods in the piece. J. A. Migel, Inc. No. 161,562; Nov. 14.
- Silk goods in the piece. J. A. Migel, Inc. No. 161,819; Nov. 21.
- Silk goods in the piece. J. A. Migel, Inc. No. 162,829; Dec. 26.
- Silk goods in the piece. William E. Wiener, Inc. No. 156,469; June 20.
- Silk in the piece. Jansen & Pretzfeld, Inc. No. 161,511; Nov. 14.
- Silk in the piece. Jansen & Pretzfeld, Inc. Nos. 162,782-5; Dec. 26.
- Silk in the piece. Muser Brothers. No. 156,358; June 20.
- Silk in the piece. Muser Brothers. No. 156,586; July 4.
- Silk in the piece. Muser Brothers. No. 160,104; Oct. 10.
- Silk in the piece, Artificial. Muser Brothers. No. 156,360; June 20.
- Silk knitted cloth. Banner Silk Knitting Mills. No. 158,888; Sept. 19.
- Silk, linen, woolen, and cotton, etc., piece goods. Haas Brothers Fabrics Corporation. No. 152,807; Mar. 7.
- Silk piece goods. Aimé Baboin & Cie. No. 152,111; Feb. 21.
- Silk piece goods. Edward Bloom Co. Inc. No. 156,798; July 11.
- Silk piece goods. Branchini, Férrier. Nos. 150,250-1; Jan. 3.
- Silk piece goods. Cardinal Silk Company. No. 159,676; Oct. 3.
- Silk piece goods. Duplan Silk Corporation. No. 157,930; Aug. 22.
- Silk piece goods. Duplan Silk Corporation. No. 161,123; Nov. 7.
- Silk piece goods. Samuel Eiseman & Co. No. 154,273; Apr. 11.
- Silk piece goods. Empire Silk Company. No. 152,392; Feb. 28.

- Silk piece goods. Empire Silk Company. No. 157,939; Aug. 22.
- Silk piece goods. Empire Silk Company. No. 161,457; Nov. 14.
- Silk piece goods. Empire Silk Company. Nos. 162,736-41; Dec. 26.
- Silk piece goods. J. W. Gilchrist. No. 162,760; Dec. 26.
- Silk piece goods. Haas Brothers Fabrics Corporation. No. 152,806; Mar. 7.
- Silk piece goods. Hess, Goldsmith & Co. No. 152,820; Mar. 7.
- Silk piece goods. Kahga Importing Company. No. 155,157; May 16.
- Silk piece goods. H. R. Mallinson & Co. No. 150,462; Jan. 3.
- Silk piece goods. H. R. Mallinson. No. 152,455; Feb. 28.
- Silk piece goods. H. R. Mallinson & Co. Nos. 153,490-1; Mar. 21.
- Silk piece goods. H. R. Mallinson & Co. No. 155,003; May 16.
- Silk piece goods. H. R. Mallinson & Co. No. 155,251; May 23.
- Silk piece goods. H. R. Mallinson & Co. No. 156,341; June 20.
- Silk piece goods. H. R. Mallinson & Co. No. 158,011; Aug. 22.
- Silk piece goods. H. R. Mallinson & Co. No. 158,745; Sept. 12.
- Silk piece goods. H. R. Mallinson & Co. Nos. 159,032-3; Sept. 19.
- Silk piece goods. H. R. Mallinson & Co. No. 159,718; Oct. 3.
- Silk piece goods. H. R. Mallinson & Co. No. 160,101; Oct. 10.
- Silk piece goods. T. J. Mitchell & Co. No. 161,564; Nov. 14.
- Silk piece goods. H. R. Mallinson & Co. No. 162,820; Dec. 26.
- Silk piece goods. T. J. Mitchell & Co. No. 160,102; Oct. 10.
- Silk piece goods. H. R. Mallinson & Co. Nos. 161,544-5; Nov. 14.
- Silk piece goods. Rogers & Thompson. No. 152,261; Feb. 21.
- Silk piece goods. A. S. Rosenthal Co. No. 154,374; Apr. 11.
- Silk piece goods. Zollinger and Schroth, Inc. No. 159,790; Oct. 3.
- Silk piece goods. Broad. Duplan Silk Corporation. Nos. 152,152-5; Feb. 21.
- Silk piece goods. Broad. Duplan Silk Corporation. No. 152,743; Mar. 7.
- Silk piece goods. Broad. Duplan Silk Corporation. No. 158,650; Sept. 12.
- Silk piece goods. Broad. Duplan Silk Corporation. No. 158,940; Sept. 19.
- Silk piece goods. Broad. Duplan Silk Corporation. Nos. 159,340-1; Sept. 26.
- Silk piece goods, cotton piece goods, and silk and cotton mixture piece goods. Jacob J. Jacoby Company. No. 161,175; Nov. 7.
- Silk piece goods. Woven and knitted. M. Strauss. No. 156,438; June 20.
- Silk, Raw. S. A. Wenger & Co. No. 160,042; Oct. 10.
- Silk, ribbons and silk and cotton ribbons. Goldy Brothers. No. 157,964; Aug. 22.
- Silk, satin, and reape piece goods. Hess, Goldsmith & Co. No. 161,500; Nov. 14.
- Silk, satin, and silk and cotton mixtures. Philipsborn's, Inc. No. 161,587; Nov. 14.
- Silk, silk and cotton, and cotton goods in the piece. Oriental Silk Printing Company. No. 161,715; Nov. 14.
- Silk, Spool. Gudebrod Bros. Silk Co. No. 156,524; June 27.
- Silk taffetas and satin messalines in the piece. Philipsborn's, Inc. No. 159,734; Oct. 3.
- Silk-throwing machinery and parts thereof. McGill & Holford Manufacturing Co. No. 156,337; June 20.
- Silk, Thrown. S. A. Wenger & Co. No. 160,041; Oct. 10.
- Silk, Tie-twist. Jordan Marsh Company. No. 151,151; Jan. 24.
- Silk used for stringing beads. Dritz-Traum Co. No. 162,636; Dec. 19.
- Silk, wool, and cotton. Piece goods of. Bianchini, Frier. No. 153,406; Mar. 21.
- Silk, wool, cotton, and linen yarns and mixtures thereof. Steinberger Bros. No. 153,322; Mar. 14.
- Silk, wool, etc., piece goods. Bianchini, Frier. No. 155,384; May 30.
- Silk, woolen, etc., piece goods. M. Strauss. No. 158,826; Sept. 12.
- Silks. Aaron-Fleischer Silk Co. No. 157,630; Aug. 15.
- Silks, Broad. J. A. Migel, Inc. Nos. 152,880-2; Mar. 7.
- Silks in the piece. Jansen & Pretzfeld. No. 150,933; Jan. 10.
- Silks in the piece. Jansen & Pretzfeld. No. 150,942; Jan. 10.
- Silks in the piece. Jansen & Pretzfeld, Inc. No. 153,475; Mar. 21.
- Silks in the piece. Jansen & Pretzfeld, Inc. Nos. 156,309-11; June 20.
- Silks in the piece. Primrose Silk Stores, Inc. No. 159,740; Oct. 3.
- Silks in the piece. Louis Roessel & Co. No. 156,407; June 20.
- Silks in the piece. Sears, Roebuck and Co. No. 154,149; Apr. 4.
- Silks in the piece. William Skinner & Sons. No. 156,421; June 20.
- Silks in the piece, Broad. J. A. Migel, Inc. No. 154,332; Apr. 11.
- Silks in the piece, Broad. Schwarzenbach Huber Company. No. 150,560; Jan. 3.
- Silks in the piece, Broad. Schwarzenbach Huber Co. No. 161,618; Nov. 14.
- Silks, linens, sheetings, etc., Broad. Schwarzenbach, Huber Company. No. 155,523; May 30.
- Silks, ribbons, velvets, and cotton goods in the piece. Wyle-Heinsfurter Co. No. 152,556; Feb. 28.
- Silks, velvets, satins, plushes, cords, and ribbons. A. Herzog. No. 20,717; renewed Feb. 16, 1922.
- Silks, wool, and cotton piece goods. Bianchini, Frier. No. 152,350; Feb. 28.
- Silkworm gut leaders and leaders made of other material. Weber Lifelike Fly Co. No. 156,941; July 18.
- Silos. Creamery Package Mfg. Co. No. 151,332; Jan. 31.
- Silos. Gebruder Böhler. No. 151,690; Feb. 14.
- Silos. Saffert-Guglsberg Cement Construction Co. No. 152,624; Feb. 28.
- Silver compound. Methylene-blue. E. Merck. No. 161,804; Nov. 21.
- Silver hollow ware. Bernard Rice's Sons, Inc. No. 162,352; Dec. 12.
- Silver-plate tableware and certain precious-metal hollow ware. T. N. Benedict Mfg. Co. No. 158,177; Aug. 29.
- Silver-plated flat and hollow tableware and silver-plated ware for soda-water use. Cecil Manufacturing Co. No. 162,212; Dec. 12.
- Silver-plated flat and hollow ware. Simeon L. & George H. Rogers Company. No. 151,931; Feb. 14.
- Silver-plated flat metal tableware. International Silver Company. No. 151,390; Jan. 31.
- Silver-plated flat metal tableware. International Silver Company. No. 153,931; Mar. 28.
- Silver-plated hollow ware and silver-plated tableware. Middletown Silver Company. No. 155,341; May 23.
- Silver-plated hollow ware and table ware. Middletown Silver Company. No. 150,904; Jan. 10.
- Silver preparation combined with sodium cholate as protective colloid, Colloidal. E. Merck. No. 161,803; Nov. 27.
- Silverware, Sterling. William B. Durgin Co. No. 162,238; Dec. 12.
- Siphons, bath sprays, faucet adapters, etc., Automatic. G. V. Gavaza. No. 162,757; Dec. 26.
- Sirens for signaling, etc. William A. Box Iron Works Co. No. 153,668; Mar. 28.
- Sirup and molasses, Table. Atlas Specialty Company. No. 158,172; Aug. 29.
- Sirup as a base for beverages. C. V. Richy. No. 154,138; Apr. 4.
- Sirup, Cane. Roddenberry Bros. No. 154,805; May 9.
- Sirup composed of barley and hops for use in making home beverages. F. E. Haggerty and Son. No. 151,158; Jan. 24.
- Sirup, Corn. American Hominy Company. No. 154,776; May 9.
- Sirup, Cough. Moore Company. No. 150,480; Jan. 3.
- Sirup for beverage purposes, Barley-malt. M. Finkelstein. No. 160,480; Oct. 24.
- Sirup for beverage purposes, Barley-malt. M. Finkelstein. No. 160,482; Oct. 24.
- Sirup for beverage purposes, Hop and malt. M. Finkelstein. No. 160,481; Oct. 24.
- Sirup for beverages, Malt. Milwaukee-Waukesha Brewing Company. No. 158,031; Aug. 22.
- Sirup for cooking purposes. Holbert & Holbert. No. 160,528; Oct. 24.
- Sirup for cough and catarrh. F. E. Loës. No. 161,209; Nov. 7.
- Sirup for food purposes, Bakers' malt. W. Rupp. No. 160,648; Oct. 24.
- Sirup for food purposes, Malt. H. B. Fagan. No. 152,762; Mar. 7.
- Sirup for food purposes, Malt. Premier Malt Products Co. of Ohio. Nos. 159,481-3; Sept. 26.
- Sirup for food purposes, Malt-extract. Schreiber Products Corporation. No. 159,510; Sept. 26.
- Sirup for food purposes, Malt-extract. Schreiber Products Corporation. No. 160,962; Oct. 31.
- Sirup for making nonalcoholic beverages. Standard Bottling and Extract Co. No. 151,360; Jan. 31.
- Sirup for table use as a food, Malt. Swannell Brokerage Co. No. 162,606; Dec. 19.
- Sirup for the manufacture of a beverage. J. Macaulay. No. 152,453; Feb. 28.
- Sirup for use at soda-water fountains. Keystone Fruit Products Company. No. 162,093; Dec. 5.
- Sirup from which a soft-drink beverage is made. H. O. Hurley Company. No. 152,829; Mar. 7.
- Sirup, Malt. Bear Hops, Malt & Extract Co. No. 160,387; Oct. 24.
- Sirup, Malt. Besto Syrup Co. No. 152,565; Feb. 28.
- Sirup, Malt. Clinton Malt Product Co. No. 151,104; Jan. 24.
- Sirup, Malt. Gerhard Lang Brewery. No. 151,316; Jan. 31.

Alphabetical list of trade-marks—Continued.

- Sirup, Malt. Perfection Products Co. No. 152,942; Mar. 7.
- Sirup, Malt. Primalt Products Co. No. 162,340; Dec. 12.
- Sirup, Malt. H. D. Sterrick. No. 155,092; May 16.
- Sirup, Malt. W. L. Tribble. No. 152,520; Feb. 28.
- Sirup, Maple. S. W. Tuttle. No. 162,393; Dec. 12.
- Sirup, mustard, peanut butter, etc. South Bend Wholesale Grocery Company. No. 156,492; June 20.
- Sirup, Nonalcoholic malt. Consumers Products Co. No. 154,005; Apr. 4.
- Sirup, Orange. Richardson Corporation. No. 150,536; Jan. 3.
- Sirup, Pure Georgia cane. Roddenbery Bros. No. 159,496; Sept. 26.
- Sirup, Table. American Hominy Company. No. 158,375; Sept. 5.
- Sirup, Table. American Molasses Company of New York.
- Sirup, Table. American Sugar Products Corp. No. 151,660; Feb. 14.
- Sirup, Table. Croker Packing Co. No. 156,855; July 18.
- Sirup, Table. M. O. Dantzler. No. 156,859; July 18.
- Sirup, Table. Vegolene Co. No. 162,399; Dec. 12.
- Sirup, Table and cooking. G. B. Fyfe. No. 162,433; Dec. 12.
- Sirup terebene compound. Ohio Valley Drug Company. No. 153,813; Mar. 28.
- Sirup used as a flavor in a nonalcoholic beverage, Concentrated maltless. G. Poulos. No. 160,628; Oct. 24.
- Sirup used as a food drink or food flavor, Fruit. H. H. Hay Sons. No. 159,625; Sept. 26.
- Sirup used as a food drink or food flavor, Fruit. H. H. Hay Sons. Nos. 162,513-4; Dec. 19.
- Sirup used in baking, etc., Barley-malt. Pfeiffer Bros. No. 151,905; Feb. 14.
- Sirup used in the treatment of colds, croup, etc., Cough. A. C. Holloway. No. 161,167; Nov. 7.
- Sirup with sorghum, Corn. Temtor Corn & Fruit Products Co. No. 156,068; June 13.
- Sirups and a maltless, nonalcoholic beverage, Flavoring. G. A. Seel. No. 155,284; May 23.
- Sirups and beverages, Fruit. Cleveland Fruit Juice Company. No. 158,920; Sept. 19.
- Sirups and flavorings and beverages made therefrom, nonalcoholic noncereale maltless. McDaniel Drug Company. No. 151,866; Feb. 14.
- Sirups and molasses, Table. Citizens' Wholesale Supply Co. No. 153,681; Mar. 28.
- Sirups and soft drinks, Certain. Marston-Greening Co. No. 153,239; Mar. 14.
- Sirups, Chocolate and other maltless. Devoine Candy Company. No. 152,385; Feb. 28.
- Sirups for beverages, Flavoring. Hurty-Peck & Co. No. 157,522; Aug. 8.
- Sirups for beverages, Maltless cereal. Milwaukee-Waukesha Brewing Company. No. 158,030; Aug. 22.
- Sirups for food purposes. P. Hauck, Jr. No. 154,565; Apr. 18.
- Sirups for making soft drinks having antifever properties. M. M. Baron. No. 158,333; Aug. 29.
- Sirups for soda fountains, Maltless beverage. Buzz Syrup Co. No. 158,395; Sept. 5.
- Sirups for table purposes. Log Cabin Products Company. No. 150,453; Jan. 3.
- Sirups for use in beverages, Maltless. Santerba Perfumery Manufacturer Inc. No. 155,074; May 16.
- Sirups, Table. Curd and Blakemore Co. No. 150,317; Jan. 3.
- Sirups used in the preparation of soft drinks, Maltless flavoring. J. L. Reese, Inc. No. 158,065; Aug. 22.
- Size for use in connection with woolen warps and for finishing textile piece goods. Liverpool Borax Co. No. 161,533; Nov. 14.
- Sizing, Wall. Lowe Brothers Company. No. 152,612; Feb. 28.
- Skates. International Development Company. No. 156,882; July 18.
- Skates, Ice. Alfred Johnson Skate Company. No. 161,955; Nov. 28.
- Skates, Ice. Shupleigh Hardware Company. No. 151,231; Jan. 24.
- Skiffs, rowboats, and canoes. St. Lawrence Boat Works. Nos. 160,685-6; Oct. 24.
- Skis. S. M. Chase. No. 157,476; Aug. 8.
- Skin lotions. W. Holmes. No. 155,079; May 16.
- Skin tonics. Merritt's Sons. No. 156,347; June 20.
- Skins dyed by special process to be made into fur garments, Rabbit. A. Kosofsky. No. 156,533; June 27.
- Skins, Dyed Rabbit. A. Pierini. No. 159,987; Oct. 10.
- Skins, Muskrat. A. Kosofsky. No. 155,897; June 6.
- Skins, Seal-dyed rabbit. J. Laskin & Sons. No. 161,707; Nov. 14.
- Skirt drawers and combinations, Women's. D. Bickum. No. 153,614; Sept. 12.
- Skirts, Ladies' and misses' outer. J. Bonwit Skirt Co. No. 158,900; Sept. 19.
- Skirts, Misses' outer. F. Herman. No. 158,700; Sept. 12.
- Skirts, Outer. Goldstein & Levin. No. 161,488; Nov. 14.
- Skylights, gutters, and fire doors. Atlanta Sheet Metal Works. No. 160,129; Oct. 17.
- Slabs made of concrete, Siding, roofing, insulating, partition, etc. Corete Mfg. Company. No. 159,741; Oct. 3.
- Slate for use as a surfacing grit for prepared roofings, Crushed. Staso Laminated Slate Company. No. 160,299; Oct. 17.
- Sleds, Hand. Kalamazoo Sled Company. Nos. 154,066-7; Apr. 4.
- Sleds, Hand. Kalamazoo Sled Company. No. 158,711; Sept. 12.
- Sleds, Hand. Sheffield Mfg. Co. No. 159,520; Sept. 26.
- Sleepers. Valco Mfg. Co. No. 151,275; Jan. 24.
- Slicing machines. U. S. Slicing Machine Company. No. 154,456; Apr. 11.
- Slippers and shoes. A. Phillips & Co. No. 150,929; Jan. 10.
- Slippers and shoes, Leather. T. W. Morrison. No. 157,154; July 25.
- Slippers, Bedroom. S. J. Hill. No. 157,098; July 25.
- Slippers, Fabric. I. Goldberg. No. 157,076; July 25.
- Slippers, Felt. Lind Shoe and Slipper Co. No. 162,096; Dec. 5.
- Slippers, Felt. Ohio Rubber Co. Nos. 159,055-6; Sept. 19.
- Slippers, Felt. H. Wilhelm. No. 155,869; June 6.
- Slippers, Ladies' leather. Robertson Shoe Company. No. 154,672; Apr. 18.
- Slippers, Leather. Tendick Shoe Manufacturing Co. No. 162,142; Dec. 5.
- Slippers of felt or fabric, Decorated. Vernart Manufacturing Corp. No. 161,331; Nov. 7.
- Snap and packet fasteners. Waldes & Co. No. 155,857; June 6.
- Snap fasteners. American Fastener Company. No. 158,594; Sept. 12.
- Snap fasteners. De Long Hook and Eye Company. Nos. 150,329-30; Jan. 3.
- Snap fasteners. N. Solow. No. 162,990; Dec. 26.
- Snap fasteners. United States Fastener Company. No. 162,924; Dec. 26.
- Snap fasteners. Waldes & Co. No. 153,555; Mar. 21.
- Snap fasteners. Waldes & Co. No. 157,789; Aug. 15.
- Snap fasteners. Waldes & Co. No. 159,145; Sept. 19.
- Snap fasteners. William Prym Company, Limited. No. 150,934; Jan. 10.
- Snap fasteners and press buttons, Dress. Stone-Stearns Co. No. 153,544; Mar. 21.
- Snowshoes, skis, sleds, baseballs, etc. Hianscom Hardware Co. No. 157,971; Aug. 22.
- Snubbers or shock absorbers, Vehicle spring. American Metals Corporation. No. 153,959; Apr. 4.
- Soap. M. Bailly. No. 157,638; Aug. 15.
- Soap. Barclay & Co. No. 162,671; Dec. 26.
- Soap. Bauer & Black. No. 151,670; Feb. 14.
- Soap. Bauer & Black. No. 155,381; May 30.
- Soap. George Borgfeldt & Co. No. 160,397; Oct. 24.
- Soap. Boston Blacking Company. No. 155,387; May 30.
- Soap. Coco Soap Company. No. 152,725; Mar. 7.
- Soap. Cudahy Packing Company. No. 162,220; Dec. 12.
- Soap. H. G. Dahl. No. 151,730; Feb. 14.
- Soap. L. A. Douglass. No. 153,153; Mar. 14.
- Soap. Emerson Soap Co. No. 155,413; May 30.
- Soap. B. M. Ferguson. No. 162,749; Dec. 26.
- Soap. G. C. Field. No. 155,419; May 30.
- Soap. Fitzpatrick Bros. No. 151,758; Feb. 14.
- Soap. Fitzpatrick Bros. No. 162,637; Dec. 19.
- Soap. Globe Soap Company. No. 151,775; Feb. 14.
- Soap. Globe Soap Company. No. 155,428; May 30.
- Soap. Wm. Gossage & Sons. No. 21,918; renewed Nov. 1, 1922.
- Soap. Wm. Gossage & Sons. No. 21,921; renewed Nov. 1, 1922.
- Soap. Jenkins & Wagner. No. 162,276; Dec. 12.
- Soap. J. S. Kirk & Company. No. 152,444; Feb. 28.
- Soap. H. Kohnstamm & Co. No. 157,699; Aug. 15.
- Soap. Lightfoot Schultz Company. No. 151,033; Jan. 10.
- Soap. Los Angeles Soap Co. No. 152,091; Feb. 14.
- Soap. Manna Products Co. No. 152,871; Mar. 7.
- Soap. Charles McAdam Company. No. 150,457; Jan. 3.
- Soap. Medicaft Company. No. 157,711; Aug. 15.
- Soap. Michigan Specialty Co. No. 151,870; Feb. 14.
- Soap. C. R. Meyer. No. 155,018; May 16.
- Soap. Packer Manufacturing Company. No. 162,571; Dec. 19.
- Soap. Palmolive Company. No. 162,854; Dec. 26.
- Soap. Peet Bros. Manufacturing Company. No. 152,938; Mar. 7.
- Soap. Procter and Gamble Company. No. 155,801; June 6.
- Soap. Remmers Soap Company. No. 159,494; Sept. 26.
- Soap. J. R. Saunders. No. 162,360; Dec. 12.
- Soap. Scotch-Tone Company. No. 155,824; June 6.
- Soap. Sherwin-Williams Company. No. 155,831; June 6.
- Soap. Solar Electric Company. No. 162,595; Dec. 19.
- Soap. Standard Oil Company of New York. No. 162,381; Dec. 12.
- Soap. United Fruit Company. No. 162,395; Dec. 12.
- Soap. United Fruit Company. Nos. 162,922-3; Dec. 26.
- Soap. Van Camp Packing Company. No. 162,611; Dec. 19.
- Soap. W. W. Waddell. No. 157,294; July 25.
- Soap. W. & H. Walker Inc. No. 157,791; Aug. 15.
- Soap. Western Soap Company. No. 152,003; Feb. 14.
- Soap. A. G. Wiswell. No. 157,841; Aug. 15.
- Soap and benzene soap. Innis, Speiden & Co. No. 155,722; June 6.

Alphabetical list of trade-marks—Continued.

- Soap and cleansers, Certain. Davies-Young Soap Company. No. 157,661; Aug. 15.
- Soap and other cleansers. Mirrorlike Mfg. Co. No. 162,318; Dec. 12.
- Soap and other cleaning and detergent preparations. J. T. Robertson Soap Company. No. 21,425; renewed July 5, 1922.
- Soap and soap powders. Janitors Supply House. No. 155,460; May 30.
- Soap and soap preparations. James Beach & Sons. No. 155,613; June 6.
- Soap and soap products. Rub-No-More Company. No. 150,550; Jan. 3.
- Soap, Animal soft. E. G. Messing. No. 162,318; Dec. 12.
- Soap, Antirheumatic medicated. Seven Spas Soap Proprietary Coy., Limited. No. 157,763; Aug. 15.
- Soap, Castile. D. A. Eberly. No. 154,924; May 16.
- Soap chips. Fitzpatrick Bros. No. 151,029; Jan. 10.
- Soap flakes. Lysander Kemp & Sons Inc. No. 162,797; Dec. 26.
- Soap flakes. Nusope Company. No. 151,299; Jan. 24.
- Soap flakes. Rolly Chemical Co. No. 157,754; Aug. 15.
- Soap flakes. E. F. Travieso. No. 157,778; Aug. 15.
- Soap for hair and skin. Frances Fox Laboratories, Incorporated. No. 151,768; Feb. 14.
- Soap, Hand. H. G. Dahl. No. 150,320; Jan. 3.
- Soap, Hand. Pacific Chemical Company. No. 162,333; Dec. 12.
- Soap, Laundry. Benjamin Brooke & Company. No. 21,671; renewed Aug. 23, 1922.
- Soap, Laundry. Benjamin Brooke & Company. No. 21,676; renewed Aug. 23, 1922.
- Soap, Laundry. Crofts & Reed Co. No. 156,482; June 20.
- Soap, Laundry. S. W. Goldsmith. No. 157,676; Aug. 15.
- Soap, Laundry. Iowa Soap Company. No. 157,690; Aug. 15.
- Soap, Laundry. Los Angeles Soap Co. No. 151,854; Feb. 14.
- Soap, Laundry. Los Angeles Soap Co. No. 162,536; Dec. 19.
- Soap, Laundry. A. A. Meeth. No. 150,900; Jan. 10.
- Soap, Laundry. C. T. Perry & Company. No. 151,904; Feb. 14.
- Soap, Laundry and toilet. Wm. Gossage & Sons. Nos. 22,201-2; renewed Dec. 20, 1922.
- Soap, Mechanics'. Silica Products Company. No. 155,525; May 30.
- Soap, Medicinal. Perfumeria Floralia S. A. No. 151,042; Jan. 10.
- Soap, Medicinal powder. R. Flores. No. 150,363; Jan. 3.
- Soap, Mineral. G. E. Brignall. No. 161,426; Nov. 14.
- Soap, Oil. John T. Stanley Co. No. 162,382; Dec. 12.
- Soap paste. Cedar Sawdust Cleanser Company. No. 159,308; Sept. 26.
- Soap, Paste. R. E. Hoyt. No. 152,428; Feb. 28.
- Soap pellets. Colgate & Co. No. 150,305; Jan. 3.
- Soap powder. A. T. Lindberg. No. 154,832; May 9.
- Soap powders. Kendall Products Corporation. No. 159,001; Sept. 19.
- Soap products. Kendall Products Corporation. No. 162,283; Dec. 12.
- Soap, Shredded. Cudahy Packing Company. No. 151,455; Feb. 7.
- Soap, Skin. Radior Co. Ltd. of London. No. 150,529; Jan. 3.
- Soap, soap powder, etc. United Turkey Red Company. No. 151,988; Feb. 14.
- Soap, Tar and antiseptic. R. C. R. Binder and L. B. Schreiber, trustees of the estate of R. Binder, deceased. No. 157,644; Aug. 15.
- Soap, Toilet. Harriet Hubbard Ayer. No. 152,675; Mar. 7.
- Soap, Toilet. George Borgfeldt & Co. No. 161,750; Nov. 21.
- Soap, Toilet. J. J. Bradley. No. 157,256; July 25.
- Soap, Toilet. Cherymy Incorporated. No. 157,654; Aug. 15.
- Soap, Toilet. Commercial Soap Company. No. 155,314; May 23.
- Soap, Toilet. Commercial Soap Company. No. 155,400; May 30.
- Soap, Toilet. Marshall Field & Company. No. 159,202; Sept. 19.
- Soap, Toilet. Geer Drug Company. No. 162,248; Dec. 12.
- Soap, Toilet. Haskins Bros. & Company. No. 157,680; Aug. 15.
- Soap, Toilet. Holman Soap Co. No. 162,270; Dec. 12.
- Soap, Toilet. Johnson & Johnson. No. 157,694; Aug. 15.
- Soap, Toilet. Los Angeles Soap Co. Nos. 151,852-3; Feb. 14.
- Soap, Toilet. Los Angeles Soap Co. Nos. 153,232-3; Mar. 14.
- Soap, Toilet. M. Lynch. No. 155,755; June 6.
- Soap, Toilet. A. Schwab. No. 151,939; Feb. 14.
- Soap, Toilet. Yardley & Co. No. 162,421; Dec. 12.
- Soap, Vegetable-oil. Urbane E. Rogers Company. No. 159,566; Sept. 26.
- Soap, Washing-machine. Los Angeles Soap Co. No. 152,864; Mar. 7.
- Soap, Wet-cleaning. Davies-Young Soap Company. No. 157,662; Aug. 15.
- Soaps. Bamacea Company. No. 159,272; Sept. 26.
- Soaps. A. Bourjois & Co. Nos. 157,646-7; Aug. 15.
- Soaps. Carlton Co. No. 161,924; Nov. 28.
- Soaps. Colgate & Company. No. 153,141; Mar. 14.
- Soaps. Colgate & Company. No. 155,645; June 6.
- Soaps. Colgate & Company. No. 155,648; June 6.
- Soaps. Crofts & Reed Co. No. 157,412; Aug. 1.
- Soaps. Fitzpatrick Bros. No. 151,757; Feb. 14.
- Soaps. Fitzpatrick Bros. No. 151,759; Feb. 14.
- Soaps. Naamlooze Vennootschap Oliefabrieken Insulinde. No. 150,909; Jan. 10.
- Soaps. A. Papazian. No. 157,738; Aug. 15.
- Soaps. Pioneer Tar Soap Company. No. 151,909; Feb. 14.
- Soaps. Rieser Company. No. 159,072; Sept. 19.
- Soaps. Rieser Company. No. 159,495; Sept. 26.
- Soaps. Seven Oils Co. No. 159,095; Sept. 19.
- Soaps. Steinfels Frères. Nos. 160,300-3; Oct. 17.
- Soaps. M. Sullivan. Nos. 162,907-9; Dec. 26.
- Soaps. Henry Thayer & Co. No. 155,541; May 30.
- Soaps. John Wanamaker, Philadelphia. No. 155,862; June 6.
- Soaps. John Wanamaker, Philadelphia. No. 157,792; Aug. 15.
- Soaps. John Wanamaker, Philadelphia. No. 159,575; Sept. 26.
- Soaps and antiseptic cleansing powder, Certain. Northern Jobbing Company. No. 157,725; Aug. 15.
- Soaps and cleaners. J. H. Bonn. No. 162,197; Dec. 12.
- Soaps, and leather-dressings and metal-polish. Sherwin-Williams Company. No. 151,946; Feb. 14.
- Soaps and other cleansers. Midland Chemical Laboratories. No. 162,550; Dec. 19.
- Soaps and polishes, Certain. Lincoln-Ray Manufacturing Co. No. 160,904; Oct. 31.
- Soaps and scouring powder designate cleaner. Reid, Murdoch & Co. No. 162,350; Dec. 12.
- Soaps and soap powders. A. Ast. No. 152,671; Mar. 7.
- Soaps and soap powders. Cafico Chemical Company Inc. No. 158,911; Sept. 19.
- Soaps. Cake, bar, paste, liquid, and powdered. J. H. Karp. No. 154,756; Apr. 18.
- Soaps, Complexion and antiseptic. Madam C. J. Walker Manufacturing Company. No. 159,572; Sept. 26.
- Soaps, Glove-cleaning. M. & N. Co. No. 157,708; Aug. 15.
- Soaps, metal polish, leather dressing, Certain. Detroit White Lead Works. No. 155,665; June 6.
- Soaps, razor strops, liquid preparations for cleaning cloth, and metal polish. Stewart & Holmes Drug Co. No. 162,602; Dec. 19.
- Soaps, shaving creams, etc. V. Vivaudou, Inc. No. 157,785; Aug. 15.
- Soaps, soap cakes and flakes, Liquid, etc. Crystal Soap & Chemical Co. No. 152,733; Mar. 7.
- Soaps, soap pastes and powders. Parfumerie Roger & Gallet. No. 159,058; Sept. 19.
- Soaps, soap powder, dish-washing compound, etc. J. R. Mitchell. No. 150,906; Jan. 10.
- Soaps, Toilet. F. G. Burke. No. 157,540; Aug. 8.
- Soaps, Toilet. F. G. Burke. No. 162,479; Dec. 19.
- Soaps, Toilet. Cheramy, Incorporated. No. 155,641; June 6.
- Soaps, Toilet. Crofts & Reed Co. No. 159,321; Sept. 26.
- Soaps, Toilet. Crofts & Reed Co. No. 162,487; Dec. 19.
- Soaps, Toilet. J. Evenson & Sons Incorporated. No. 158,942; Sept. 19.
- Soaps, Toilet. Lamson Brothers Co. No. 162,460; Dec. 12.
- Soaps, Toilet. F. N. Lewis. No. 151,843; Feb. 14.
- Soaps, Toilet. Mulhens & Kropff. No. 162,561; Dec. 19.
- Socks. Fox River Valley Knitting Company. No. 150,372; Jan. 3.
- Socks for boots and shoes. J. T. Cooper. No. 158,642; Sept. 12.
- Socks for men and children. Fox River Valley Knitting Company. No. 154,548; Apr. 18.
- Socks supporters, hose supporters, corsets. J. Lindauer. No. 154,610; Apr. 18.
- Soda ash and caustic soda. Diamond Alkali Company. No. 152,151; Feb. 21.
- Soda ash, bicarbonate and caustic sodas, bleaching powder, etc. Mathieson Alkali Works. No. 155,483; May 30.
- Soda fountains, carbonators, and soda-fountain machinery. Langley & Michaels Co. No. 159,408; Sept. 26.
- Soda fountains, Mixing apparatuses for. Metallograph Corporation. No. 155,017; May 16.
- Soda straws. New Jersey Paper Tube Company. No. 152,618; Feb. 28.
- Soda, Washing. Benner Chemical Company. No. 161,681; Nov. 14.
- Soda water and sirup for making same, Bottled. Tutti Frutti Beverage Company. No. 153,035; Mar. 7.
- Sodas, sarsaparilla, and sparkling water, Orange, cherry, and grape. Schoenhofen Company. No. 153,522; Mar. 21.
- Sodium-bicarbonate tablets. E. L. Patch Co. No. 156,386; June 20.
- Soil, Plumbers'. Bergman Specialty Co. No. 161,059; Nov. 7.
- Solder. T. E. Lampe. No. 159,407; Sept. 26.
- Solder. Great Western Smelting & Refining Company. Nos. 153,735-6; Mar. 28.
- Solder. Great Western Smelting and Refining Company. No. 158,348; Aug. 29.

Alphabetical list of trade-marks—Continued.

- Solder. Great Western Smelting & Refining Company. No. 162,081; Dec. 5.
- Solder for metals. Aluminum Fix Company. No. 153,644; Mar. 28.
- Solder, Metal and aluminum. M. J. White. No. 157,296; July 25.
- Solder, soldering ingots, soldering rods, etc. Kippers Metallwerke Gesellschaft mit beschränkter Haftung. No. 162,804; Dec. 26.
- Solder steel, electric welding rods, and acetylene iron welding rods, Alumina. Oechsle Brothers. No. 161,895; Nov. 21.
- Soldering compound. R. M. Hollingshead Company. No. 155,716; June 6.
- Soldering flux, Fluid. American Chemical Paint Company. No. 157,301; Aug. 1.
- Soles and heels for shoes. Combination leather and rubber. J. K. Krieg Company. No. 154,757; Apr. 18.
- Soles, Cut leather. R. S. Lawrence. No. 154,603; Apr. 18.
- Soles, Cut leather. R. S. Lawrence. No. 157,125; July 25.
- Soling material, Composition. Marathon Tire & Rubber Company. No. 151,862; Feb. 14.
- Solvents for waste sewer pipes. Dynamic Chemical Co. No. 150,341; Jan. 3.
- Sound-reproducing instruments, Needles or styli for. Permanent Manufacturing Co. No. 155,047; May 16.
- Sound-reproducing-machine cabinets. Beckwith-O'Neill Company. No. 153,404; Mar. 21.
- Souvenir or favor containers. B. Shackman & Co. No. 160,663; Oct. 24.
- Spark intensifiers. S. O. S. Ignition Company. No. 155,838; June 6.
- Spark plug. Brown Bag Filling Machine Company. No. 156,635; July 11.
- Spark-plug extension. H. and A. Accessories. No. 158,450; Sept. 5.
- Spark plugs. G. S. Daugherty. No. 152,737; Mar. 7.
- Spark plugs. Dayton Ignition Company. No. 156,654; July 11.
- Spark plugs. G. T. Dochtermann. No. 151,464; Feb. 7.
- Spark plugs. Niles Manufacturing Company. No. 155,785; June 6.
- Spark plugs. Patten Manufacturing Company. No. 158,515; Sept. 5.
- Spark plugs. F. C. Ring. No. 162,354; Dec. 12.
- Spark plugs. Roman Spark Plug Co. No. 151,402; Jan. 31.
- Spark plugs. Sharp Spark Plug Company. No. 151,600; Feb. 7.
- Spark plugs. G. T. Simmons. No. 154,209; Apr. 4.
- Spark plugs. Suburban Manufacturing Company. No. 161,029; Oct. 31.
- Spark plugs. D. Swan. No. 162,387; Dec. 12.
- Spark plugs. Wisconsin Iron Store, Inc. No. 151,646; Feb. 7.
- Spark plugs and parts thereof. Champion Spark Plug Company. No. 158,402; Sept. 5.
- Spark plugs and spark-plug cores. L. A. Munger. No. 155,343; May 23.
- Spark plugs for internal-combustion engines. Cloud Accessories Corporation. Nos. 151,450-1; Feb. 7.
- Spark plugs, Hand tool for cleaning. W. L. Boardman. No. 150,741; Jan. 10.
- Spark plugs, Metal terminals or electrodes for. H. M. Fredriksen. No. 157,068; July 25.
- Spark plugs, receiving tuners, etc. Precision Equipment Co. No. 152,257; Feb. 21.
- Spark timers for internal-combustion engines. Berg Bros. Mfg. Company. No. 156,623; July 11.
- Spark timers for internal-combustion engines. A. Kaufman. No. 162,282; Dec. 12.
- Sparkling metal, Pieces of. Art Metal Works, Inc. No. 160,372; Oct. 24.
- Spats and overgaiters. Penn Shoe & Overgaiter Co. No. 150,516; Jan. 3.
- Specific, Blood. M. M. Shuttles. No. 155,524; May 30.
- Specific for cholera infantum. L. A. Davidson. No. 20,985; renewed Apr. 19, 1922.
- Spectacle and eyeglass frames and mountings and screws for said mountings. No. 151,562; Feb. 7.
- Spectacles. Strong-Kennard & Nutt Company. No. 162,126; Dec. 5.
- Spectacles and eyeglasses. H. L. Leibe Co. No. 153,934; Mar. 28.
- Spectacles, eyeglasses, goggles, binoculars, etc. Universal Optical Corporation. No. 151,412; Jan. 31.
- Spectacles, eyeglasses, ophthalmic lenses, and frames therefor. Economy Spectacle Company. No. 150,796; Jan. 10.
- Speed transmissions and parts thereof, Change-. Pierce-Arrow Motor Car Company. No. 153,283; Aug. 29.
- Speedometers. H. Hammarlund. No. 157,970; Aug. 22.
- Spices and extracts. B. M. Johnson Manufacturing Co. No. 152,202; Feb. 21.
- Spinning frames. Atwood Machine Company. No. 160,376; Oct. 24.
- Spirit, Motor. Alcohol Fuel Corporation Limited. No. 158,589; Sept. 12.
- Sponge and washrag, Combined. G. Fierheller. No. 157,062; July 25.
- Spool cotton. Clark Thread Company. No. 20,616; renewed Jan. 19, 1922.
- Spoons and kitchen tools, Certain. A. & J. Manufacturing Co. No. 162,028; Dec. 5.
- Sporting goods. Big Store Co. No. 153,977; Apr. 4.
- Sporting goods. Ken-well Sporting Goods Co. No. 150,431; Jan. 3.
- Sporting goods, Certain. James W. Brine Company. Nos. 162,203-5. Dec. 12.
- Sporting goods, Certain. Caravel Company, Inc. No. 159,834; Oct. 10.
- Sporting goods, Certain. Thomson-Diggs Company. No. 151,973; Feb. 14.
- Spray composition, Concentrated. Hood River Spray Company. No. 154,057; Apr. 4.
- Spray diffusers. "Perolin" Fabrikationsgesellschaft, m. b. H. No. 152,945; Mar. 7.
- Spray diffusers for fluids. "Perolin" Fabrikationsgesellschaft m. b. H. No. 159,983; Oct. 10.
- Spray for trees, plants, shrubs, and the like. Herbicide Chemical Laboratories. No. 161,162; Nov. 7.
- Spray, Insecticide. Balfour Guthrie & Co. No. 157,305; Aug. 1.
- Spray, Nose and throat. Standard Oil Company, (Incorporated in New Jersey.) No. 153,389; Mar. 14.
- Spray to be used for relief of hay fever. Needham Products Co. No. 152,100; Feb. 14.
- Sprayers, pumps, force pumps, atomizers, and powder dusters. D. B. Smith. No. 162,119; Dec. 5.
- Spraying mixtures for use on fruit trees, Product used in preparing. California Central Creameries. No. 159,833; Oct. 10.
- Spraying solution. Smith Mfg. Co. No. 150,224; Sept. 19.
- Spraying systems and parts thereof, Water and other liquid. Spray Engineering Company. No. 158,102; Aug. 22.
- Spraying systems for purifying the air of buildings. A. B. Neeb. No. 151,561; Feb. 7.
- Spraying vegetation, Chemical preparation for. J. Schnarr & Company. No. 154,381; Apr. 11.
- Springs. Sandvikens Jernverks Aktiebolag. No. 162,464; Dec. 19.
- Springs and set screws, cap nuts, and turned knobs. Humason Manufacturing Company. No. 150,853; Jan. 10.
- Springs, Box. International Bedding Co. No. 158,234; Aug. 29.
- Springs for locomotives, locomotive tenders, and cars. Standard Steel Works Company. No. 162,900; Dec. 26.
- Springs, mattresses, pillows, Certain. J. H. Jones. No. 151,823; Feb. 14.
- Springs, Ring. O. E. Lehmann & Co. No. 161,530; Nov. 14.
- Springs, Vehicle. F. V. Cooke. No. 151,719; Feb. 14.
- Sprinklers, Lawn. Chicago Flexible Shaft Company. No. 161,439; Nov. 14.
- Squawkers, balloons, balls, dolls, and animals. Faultless Rubber Company. No. 155,322; May 23.
- Stain and floor varnish, Combined. Indiana Indestructible Paint Co. No. 159,193; Sept. 19.
- Stain, paint, varnish, Shingle. British America Paint Company. No. 150,263; Jan. 3.
- Stain, Shingle. Lowe Brothers Company. No. 150,685; Jan. 3.
- Stain varnish, varnishes, mixed paints, and paint enamels. R. A. Becker Varnish Company. No. 158,608; Sept. 12.
- Stain, Wood. A. T. Gay. No. 160,773; Oct. 24.
- Stains and finishes. Benjamin Moore & Co. No. 161,566; Nov. 14.
- Stains, Liquid. William Flood Company. No. 153,564; Mar. 21.
- Stains, Liquid. William Flood Company. No. 155,127; May 16.
- Stair treads and door saddles. American Abrasive Metals Company. No. 155,916; June 13.
- Stair treads and floor plates. American Abrasive Metals Company. No. 159,250; Sept. 26.
- Stair treads, Cork. Pocock Manufacturing Company Limited. No. 159,737; Oct. 3.
- Stamp pads. Mun-Keel Products Corporation. No. 151,552; Feb. 7.
- Stamp pads. Peerless Carbon & Ribbon Mfg. Co. No. 151,572; Feb. 7.
- Stamping and marking devices. W. H. Wade. No. 161,850; Nov. 21.
- Stamping machines, Name-. Modern Inventions Corporation. No. 153,802; Mar. 28.
- Stamps, Merchants' trade-discount. L. W. Peirce. No. 150,926; Jan. 10.
- Stamps, Steel. General Steel & Rubber Stamp Co. No. 161,776; Nov. 21.
- Stamps, United States and foreign. Fennell Stamp Company. No. 155,227; May 23.
- Starch for laundry or food purposes, Preparation of. National Starch Manufacturing Company. No. 20,943; renewed Apr. 5, 1922.
- Starch, Laundry. Corn Products Refining Co. No. 161,102; Nov. 7.
- Starch, Laundry. Keever Starch Co. No. 152,206; Feb. 21.
- Statements, auditors' reports, and bulletins. Audit Bureau of Circulations. No. 157,636; Aug. 15.

- Stationary and locomotive injectors and ejectors. Hayden & Derby Mfg. Company. No. 21,221; renewed May 31, 1922.
- Stationery. American Wholesale Corporation, (Baltimore Bargain House.) No. 153,367; Mar. 14.
- Stationery. Hamilton Card & Paper House, Inc. No. 154,960; May 16.
- Stationery. New England Stationery Company. Nos. 156,371-2; June 20.
- Stationery articles. P. L. Pease & Company. No. 156,387; June 20.
- Stationery, Boxed. Rytex Company. No. 162,587; Dec. 19.
- Stationery, Certain. United States Envelope Company. No. 154,170; Apr. 4.
- Stationery, Certain articles of. Buettell Brothers Company. No. 157,468; Aug. 8.
- Stationery, Certain articles of. H. C. Cowdrey. No. 151,110; Jan. 24.
- Stationery, Certain articles of. Samuel Jones & Co. No. 155,573; May 30.
- Stationery, Certain articles of. Minneapolis Drug Company. No. 153,607; Mar. 21.
- Stationery, Certain articles of. Seaman-Patrick Paper Co. No. 155,583; May 30.
- Stationery, menus, writing papers, and envelopes, etc., Social. Max Grab Fashion Co. No. 154,096; Apr. 4.
- Stay bolts, track, frog, and switch bolts and nuts, and stay bolts. Boiler. Flannery Bolt Company. No. 161,468; Nov. 14.
- Stay bolts, track, frog, and switch bolts, and nuts, etc., Boiler. Flannery Bolt Company. No. 155,889; June 6.
- Steam blowers. McClave-Brooks Co. No. 159,424; Sept. 26.
- Steam boilers, blast furnaces, and kilns. Coatesville Boiler Works. No. 154,002; Apr. 4.
- Steam-pipe coverings and insulations, roofing cements, and prepared roofings. Nott-Atwater Company. No. 156,031; June 13.
- Steam specialties, Certain. Strong, Carlisle & Hammond Company. No. 161,644; Nov. 14.
- Steam tables, culinary warmers, cookers, etc. Aldrich Manufacturing Co. No. 150,705; Jan. 10.
- Steel. Electric Alloy Steel Company. Nos. 162,064-7; Dec. 5.
- Steel. Ludlum Steel Company. Nos. 152,092-3; Feb. 14.
- Steel. Vulcan Crucible Steel Co. No. 150,637; Jan. 3.
- Steel, Alloy. Ludlum Steel Company. Nos. 159,420-1; Sept. 26.
- Steel, alloy steel, iron and steel bars, and sheet bars. United Alloy Steel Corporation. Nos. 159,559-60; Sept. 26.
- Steel and iron in certain forms, certain steels, steel castings, forgings, and stampings. Arthur Balfour & Co. Limited. No. 154,874; May 16.
- Steel and steel castings and forgings. Edgar Allen & Co., Limited. No. 151,012; Jan. 10.
- Steel balls. T. R. Bergman. No. 161,409; Nov. 14.
- Steel bars, plates, shapes, castings, forgings. Electric Steel & Forge Company. No. 150,800; Jan. 10.
- Steel billets, bars, forgings, and disks. Poldi Steel Corporation of America. No. 152,952; Mar. 7.
- Steel billets, bars, forgings, and disks. Poldi Steel Corporation of America. Nos. 162,864-5; Dec. 26.
- Steel clamps, hack-saw frames, scribers, screw drivers, etc. Union Tool Company. No. 155,104; May 16.
- Steel factory equipment. Fairbanks Co. No. 150,355; Jan. 3.
- Steel flooring, ventilator, gratings, grids, and grilles. Kerlow Steel Flooring Company. No. 159,712; Oct. 3.
- Steel for use in the manufacture of die blocks, tool-steel forgings, etc. Heppenstall Forge and Knife Company. No. 159,373; Sept. 26.
- Steel-hardening solutions. W. A. Beckwith. No. 157,308; Aug. 1.
- Steel in blocks, bars, and forgings. Poldina Hut, továrna na kelfmkovnu ocel Crucible Steel Works. No. 158,707; Sept. 12.
- Steel in blocks, bars, and forgings for all kinds of machines, etc. Poldina Hut. Nos. 155,983-4; June 13.
- Steel plates. M. W. Kellogg Company. No. 154,985; May 16.
- Steel plates, strips, and sheets. Sharon Steel Hoop Company. No. 150,962; Jan. 10.
- Steel products, Certain. American Steel & Wire Company of New Jersey. No. 159,254; Sept. 26.
- Steel rails. Bethlehem Steel Company. No. 151,430; Feb. 7.
- Steel, Sheet. Bethlehem Steel Company. No. 157,003; July 25.
- Steel sheets having a copper content, Rolled. Superior Sheet Steel Company. No. 150,982; Jan. 10.
- Steel, steel plates, and steel wire, bar, sheet, etc. General Steel Products Co. No. 160,496; Oct. 24.
- Steel, Surface-hardening powders for. E. F. Houghton & Co. No. 154,058; Apr. 4.
- Steel, Tool and die. Firth-Sterling Steel Company. No. 154,934; May 16.
- Steels, boning, and staying materials. American Lady Corset Co. No. 153,366; Mar. 14.
- Steels in bars, billets, and shapes. Tool. Carpenter Steel Company. No. 157,023; July 25.
- Steels, Tool. Carpenter Steel Company. Nos. 151,702-3; Feb. 14.
- Steering wheels for motor vehicles. Fold O-Lock Steering Wheel Mfg. Corp. No. 162,752; Dec. 26.
- Stepladder. E. T. Burrowes Company. No. 159,831; Oct. 10.
- Step plates. Alloy Foundry and Machine Corporation. No. 158,169; Aug. 29.
- Stereotyping and electroplating, Matrix or dry mat used in. W. B. Wheeler Corporation. No. 152,005; Feb. 14.
- Stew, Irish. E. P. Daggett Canning Co. No. 152,378; Feb. 28.
- Sticky fly paper. A. G. Dickinson. No. 153,584; Mar. 21.
- Stills, Gasoline and oil. Bousman Manufacturing Company. No. 150,744; Jan. 10.
- Stilts. Sterling Toy Works. No. 157,290; July 25.
- Stock gestation compound. H. H. Cullinan. No. 151,456; Feb. 7.
- Stockings. Emery & Beers Company. Nos. 155,320-1; May 23.
- Stockings. Julius Kayser & Co. Nos. 158,713-14; Sept. 12.
- Stockings. Van Raalte Company. No. 160,319; Oct. 17.
- Stockings and hosiery. Rambo & Regar, Inc. No. 153,286; Mar. 14.
- Stockings and hosiery. Rambo & Regar, Inc. No. 153,511; Mar. 21.
- Stockings and socks. E. B. Tryon. No. 161,383; Nov. 7.
- Stogies. B. M. Meyer. No. 152,460; Feb. 28.
- Stokers. James A. Brady Foundry Company. No. 157,410; Aug. 1.
- Stokers used in connection with steam boilers. Vogt Brothers Mfg. Co. No. 160,320; Oct. 17.
- Stones, Electric. Sterolelectric Company. No. 156,763; July 11.
- Stoneware, Acid-proof chemical. M. A. Knight. No. 155,468; May 30.
- Stoneware, Acid-proof chemical. M. A. Knight. No. 159,195; Sept. 19.
- Stoneware, Glazed. Pacific Clay Products Co. No. 161,251; Nov. 7.
- Stools. M. & M. Wood Working Co. No. 162,539; Dec. 19.
- Stools and cabinets, Shoe-shining. Wallin Mfg. Co. No. 159,146; Sept. 19.
- Storage batteries. E. I. Duschne. No. 152,751; Mar. 7.
- Storage batteries. United Auto Electric Service, Inc. No. 156,770; July 11.
- Storage batteries. Western Battery & Supply Company. No. 151,634; Feb. 7.
- Storage-battery boxes and parts thereof, Electric. Rub-Tex Products, Inc. No. 151,587 Feb. 7.
- Storage receptacles and wrappers for bottles and lamp chimneys, Garment. Mid-West Box Company. No. 159,204; Sept. 19.
- Stories or playlets in verse and prose, Series of separate illustrated. J. P. McEvoy. No. 159,029; Sept. 19.
- Stove lining. Plastic. Rutland Fire Clay Co. No. 152,978; Mar. 7.
- Stove parts, Enameled cast-metal, wrought-metal, and sheet-steel. Chicago Vitreous Enamel Product Company. No. 160,149; Oct. 17.
- Stovepipe. Wheeling Corrugating Company. No. 153,351; Mar. 14.
- Stove polish. C. Devlin. No. 153,149; Mar. 14.
- Stoves and burners, etc., Oil. Cleveland Metal Products Company. No. 160,153; Oct. 17.
- Stoves and heaters and parts of the same. Reading Stove Works, Orr, Painter & Co. No. 22,578; renewed Feb. 28, 1923.
- Stoves and heaters, Gas. American Stove Company. No. 160,125; Oct. 17.
- Stoves and ranges. Lackawanna Foundry Company. No. 152,606; Feb. 28.
- Stoves and ranges. Woods-Evertz Stove Company. No. 151,413; Jan. 31.
- Stoves, Camp. American Gas Machine Company. No. 152,560; Feb. 28.
- Stoves, Coal and gas. Wincroft Stove Works. No. 160,334; Oct. 17.
- Stoves, Coal, coke, wood, and gas. F. A. Klaine Company. No. 160,331; Oct. 17.
- Stoves, etc., Certain. Thomson-Diggs Company. No. 151,256; Jan. 24.
- Stoves, Gas and coal. Wincroft Stove Works. No. 150,652; Jan. 3.
- Stoves, Gas and coal. Wincroft Stove Works. No. 157,248; July 25.
- Stoves, gas ranges and heaters, and gasoline, oil, coal and wood burning stoves, Gas. A. Weiskittel & Son. No. 22,380; renewed Jan. 24, 1923.
- Stoves, Oil and gas. Central Oilgas Stove Company. No. 21,250; renewed June 7, 1922.
- Stoves or ranges, Combination. Magee Furnace Company. No. 162,819; Dec. 26.
- Stoves, Ovens and portable gasoline and oil. Prentiss-Wabers Stove Co. No. 153,383; Mar. 14.
- Stoves, ranges, and furnaces. Co-Operative Foundry Company. No. 22,052; renewed Nov. 22, 1922.
- Stoves, ranges, and furnaces. Haynes-Langenberg Manufacturing Co. No. 154,792; May 9.
- Stoves, ranges, furnaces, etc. Independent Stove Company. No. 157,110; July 25.
- Straps, Metallic. I. R. Pierson. No. 159,475; Sept. 26.
- Strawboard, box board, binders' board, etc. C. L. La Boiteaux Company. No. 159,299; Sept. 26.

Alphabetical list of trade-marks—Continued.

- Strawboard, box board, etc. C. L. La Boiteaux Company. No. 157,896; Aug. 22.
- Stringed musical instruments and parts thereof. C. Bruno & Son, Inc. No. 158,198; Aug. 29.
- Strop dressing. J. S. Howard. No. 157,683; Apr. 15.
- Stroppers for safety-razor blades. American Strop Corporation. No. 152,113; Feb. 21.
- Stucco. Alliance Stucco Company. No. 152,652; Mar. 7.
- Stucco. Atlas Portland Cement Company. Nos. 160,130-2; Oct. 17.
- Stucco. Independent Gravel Company. No. 160,214; Oct. 17.
- Stucco. Wm. Moellering's Sons. No. 160,594; Oct. 24.
- Stucco composition. Velvete Floor Co. No. 159,780; Oct. 3.
- Stucco. Magnesite. National Magnesite Stucco Co. No. 160,598; Oct. 24.
- Sucker rods. S. M. Jones Company. No. 161,700; Nov. 14.
- Sugar. Anaheim Sugar Company. No. 160,366; Oct. 24.
- Sugar. Warner Sugar Refining Company. No. 162,612; Dec. 19.
- Sugar, Beet, cane, and maple. Union Sugar Company. No. 160,700; Oct. 24.
- Sugar for beer coloring and flavoring. Body. Klatscher & Lorenz, Inc. No. 157,351; Aug. 1.
- Sugar in blocks, Maple. Cary Maple Sugar Company. No. 154,435; Apr. 11.
- Sugar, Malt. American Hominy Company. No. 160,363; Oct. 24.
- Sugar preparation for making sherbet, ices, cake frosting. Smile Co. No. 151,952; Feb. 14.
- Sugar product. Ward Baking Company. No. 153,558; Mar. 21.
- Sugar product containing water-soluble vitamins, bran, etc. Ward Baking Company. No. 162,935; Dec. 26.
- Sugar, sirups, and molasses. Salsburg Refining Company. No. 154,679; Apr. 18.
- Sugar, table and cooking sirups, and molasses. Salsburg Refining Company. No. 152,492; Feb. 28.
- Sugar, teas, coffee, rice, cocoa, cornstarch. Ragus Sugar Company. No. 159,486; Sept. 26.
- Sugar used for food purposes, Concentrated extract of malt. H. B. Fagan. No. 151,752; Feb. 14.
- Suit, Union. Chalmers Knitting Company. No. 157,025; July 25.
- Suitcase. C. A. Behringer. No. 158,609; Sept. 12.
- Suitings for men, Textile. John A. Griffith Co. No. 161,780; Nov. 21.
- Suits of textile material, Union-. A. Rifkin & Company. No. 162,111; Dec. 5.
- Suits and dresses, Children's. Gotham Novelty Co. No. 156,873; July 18.
- Suits and dresses, Misses'. Bernstein & Shulman. No. 161,061; Nov. 7.
- Suits and overalls, Play. Devon Manufacturing Company. No. 161,114; Nov. 7.
- Suits and overcoats, Men's. Barron, Anderson Co. No. 155,610; June 6.
- Suits and overcoats, Men's. B. Kuppenheimer and Co. No. 155,741; June 6.
- Suits and overcoats, Men's. Philipsborn's, Inc. No. 154,258; Apr. 11.
- Suits and overcoats, Men's. L. Shapiro. No. 161,297; Nov. 7.
- Suits and overcoats, Men's and boys'. Michaels, Stern & Co. Nos. 158,022-3; Aug. 22.
- Suits and overcoats, Men's and boys'. Saks and Company. No. 158,798; Sept. 12.
- Suits and overcoats, Men's and young men's. Epstein-Chas. Douglas Co. No. 150,804; Jan. 10.
- Suits and overcoats, Men's and youths'. King Blair Co. No. 154,597; Apr. 18.
- Suits and trousers, Men's and boys' outer. Cohn, Goldwater Company. No. 157,904; Aug. 22.
- Suits and trousers, Men's, women's, and boys'. Liberman Manufacturing Co. No. 150,450; Jan. 3.
- Suits, Boys'. Jos. Klein Company. No. 161,522; Nov. 14.
- Suits, Boys' and children's play. Tauber, Lipton & Co. No. 157,216; July 25.
- Suits, Boys' and girls' midgy. Jackie-Klothes, Inc. No. 159,192; Sept. 19.
- Suits, Boys' and young men's. Richman, Newburger & Travers. No. 154,669; Apr. 18.
- Suits, Children's. L. B. Thomas. No. 160,309; Oct. 17.
- Suits, Children's one-piece. Elk Brand Shirt & Overall Co. No. 151,124; Jan. 24.
- Suits, coats, overcoats, vests, and trousers. M. H. Wegman. No. 160,326; Oct. 17.
- Suits, coats, trousers, knickerbockers, etc., Men's, young men's and boys'. Siebler Clothes Company. No. 157,205; July 25.
- Suits, coats, vests, trousers, and overcoats, Men's. H. V. Holmes and Company. No. 162,011; Nov. 28.
- Suits, dresses, coats, etc., and boys' suits, Women's, misses', and children's. Strouse-Baer Co. No. 157,212; July 25.
- Suits, dresses, shirts, etc., Children's. A. Flax. No. 154,546; Apr. 18.
- Suits for males, Outer. Driesen, Meyer & Oronsky. No. 161,120; Nov. 7.
- Suits, Ladies', misses', and children's. Joseph Eckstein, Inc. No. 154,538; Apr. 18.
- Suits, Ladies' three-piece. A. A. Frankel. No. 157,498; Aug. 8.
- Suits, Life-saving. Aud Company. No. 161,050; Nov. 7.
- Suits, Men's. Chas. Kaufman & Bros. No. 159,000; Sept. 19.
- Suits, Men's. H. W. Rothstein. No. 157,577; Aug. 8.
- Suits, Men's and boys'. Benson & Rixon Co. No. 154,431; Apr. 11.
- Suits, Men's and boys'. Alexander Wolff & Co. No. 161,346; Nov. 7.
- Suits, Men's ready-made. G. W. Greig. No. 154,560; Apr. 18.
- Suits, overcoats, and topcoats, Men's and boys'. Lipman Wolfe & Co. No. 160,335; Oct. 17.
- Suits, overcoats, and vests, Men's. Bogat-Weinberg Company. No. 160,762; Oct. 24.
- Suits, overcoats, pants, Boys'. F. Schwartz and Son. No. 154,691; Apr. 18.
- Suits, overcoats, topcoats, trousers, etc., Men's and boys'. Spilton & Glanzrock. No. 161,635; Nov. 14.
- Suits, overcoats, ulsters, etc. A. C. Gaunt. No. 150,822; Jan. 10.
- Suits, pants, overcoats, etc., Boys'. Philipsborn's Inc. No. 154,659; Apr. 18.
- Suits, Tailored. L. R. Dolby Co. No. 156,658; July 11.
- Suits, trousers, and overcoats, Men's. Arthur Litt & Co. No. 160,231; Oct. 17.
- Suits, trousers, raincoats, etc., Men's and boys'. I. Frank. No. 151,767; Feb. 14.
- Sulphate, Barium. Magnuson X-Ray Company. No. 156,340; June 20.
- Sulphates, chlorides, and acetates of metals, refined tar, perfumes, etc. Thomas Hubback & Son Limited. No. 161,504; Nov. 14.
- Sulphur and sulphur inoculated with bacteria. Texas Gulf Sulphur Company. No. 158,113; Aug. 22.
- Sulphur having insecticidal properties. San Francisco Sulphur Co. No. 155,818; June 6.
- Sulphur inoculated with bacteria. Texas Gulf Sulphur Company. No. 158,112; Aug. 22.
- Sulphur inoculated with bacteria. Texas Gulf Sulphur Company. Nos. 158,833-4; Sept. 12.
- Suppositories, Antiseptic, astringent, vaginal. Owl Drug Company. No. 161,250; Nov. 7.
- Suppositories, Pile. W. Bothe. No. 154,232; Apr. 11.
- Surgical and dental instruments, Apparatus for sterilizing. Barnstead Still & Sterilizer Co. No. 158,604; Sept. 12.
- Surgical and medical supplies, Certain. Western Bottle Manufacturing Company. No. 159,241; Sept. 19.
- Surgical appliances. W. B. Thompson. No. 153,023; Mar. 7.
- Surgical appliances, Certain. Faultless Rubber Company. No. 155,323; May 23.
- Surgical appliances, Certain. Reinhold Schumann, Inc. No. 159,090; Sept. 19.
- Surgical cotton points. Cleveland Surgical Supply Company. No. 160,416; Oct. 24.
- Surgical instruments and hospital supplies. Chas. A. Schmidt Instrument Company. No. 162,987; Dec. 26.
- Surgical or sanitary bandage. Sphagnum Products Company. No. 153,810; Mar. 14.
- Surgical tool. F. N. Cox. No. 154,256; Apr. 11.
- Suspenders. Eagle Suspender & Belt Co. No. 154,536; Apr. 18.
- Suspenders. Russell Manufacturing Company. No. 160,005; Oct. 10.
- Suspensories. J. E. Naregan. No. 158,752; Sept. 12.
- Suture material used for sewing up wounds. L. Kahlenberg. No. 158,998; Sept. 19.
- Sutures and ligatures. W. D. Young Company. No. 152,086; Feb. 14.
- Swabbing compound for cannon. S. D. Benohel. No. 150,247; Jan. 3.
- Sweater or knit-goods coat and bathing suits. Pacific Knitting Mills, Inc. No. 161,579; Nov. 14.
- Sweaters. Greater Manhattan Knitting Mills, Inc. No. 155,330; May 23.
- Sweaters, Ideal Linen Mesh Co. No. 150,414; Jan. 3.
- Sweaters. Knitwear Mfg. Co. No. 157,815; Aug. 15.
- Sweaters. Pennsylvania Knitting Mills. No. 158,056; Aug. 22.
- Sweaters. Sunbeam Knitting Mills. No. 157,213; July 25.
- Sweaters and scarfs. Beck Novelty Co. No. 156,100; June 13.
- Sweaters and underwear of knitted fabric. Cadet Knitting Company. No. 155,310; May 23.
- Sweaters and vests, Men's, boys', and ladies'. Lamb Knit Goods Co. No. 161,525; Nov. 14.
- Sweaters, bathing suits, caps, and gloves. Lamb Knit Goods Co. No. 161,524; Nov. 14.
- Sweaters, bathing suits, knitted caps, etc. Smith-McCord-Townsend Dry Goods Co. No. 155,356; May 23.
- Sweaters, bathing suits, knitted jackets, etc. Crescent Company. No. 157,658; Aug. 15.
- Sweaters, bathing suits, shirts, etc. O'Shea Knitting Mills. No. 157,555; Aug. 8.
- Sweaters, jerseys, and baseball suits. A. G. Spalding & Bros. No. 151,960; Feb. 14.
- Sweaters, Ladies'. Hillman & Israel. No. 158,160; Aug. 22.
- Sweaters, Sportsmen's. American Hosiery Company. No. 154,473; Apr. 18.

- Sweaters, sweater coats. Baynton Mills. No. 151,671; Feb. 14.
- Sweaters, sweater coats, hosiery, gloves. Baynton Mills. No. 154,875; May 16.
- Sweepers, Electric suction. Clements Mfg. Co. No. 156,646; July 11.
- Sweeping compound. Pioneer Manufacturing Company. No. 157,743; Aug. 15.
- Sweeping compounds. R. S. Johnson. No. 162,436; Dec. 12.
- Swimming or bathing devices. Regina Swimming Devices Co. No. 160,951; Oct. 31.
- Swings, Children's. Exerswing Company. No. 153,166; Mar. 14.
- Switch boxes, motor inclosures, and safety switches. United Metal Box Co. No. 155,853; June 6.
- Switches and circuit interrupters, Starting. Miniature Breaker Co. No. 156,711; July 11.
- Switches and service entrances, Electric. Lewis Electric Company. No. 161,709; Nov. 14.
- Switches and switch stands. Cincinnati Frog and Switch Co. No. 159,311; Sept. 26.
- Switches, Electric socket and other. Shawmut Machine Works, Inc. No. 160,967; Oct. 31.
- Switches, lightning arresters, choke coils, Disconnecting. Electrical Engineers Equipment Company. No. 156,664; July 11.
- Syringe, Venereal. W. J. Covell. No. 153,689; Mar. 28.
- Syringes. H. K. Mulford Company. No. 153,499; Sept. 5.
- Syringes and hypodermic needles for use in same. American Platinum Works. No. 154,216; Apr. 11.
- Syringes, Douche. Dilator Syringe Corporation. No. 159,178; Sept. 19.
- Syringes, Hydrometric. Scranton Glass Instrument Company. No. 157,282; July 25.
- Tabasco sauce, peppers in vinegar, etc. B. F. Trappey. No. 153,881; Mar. 28.
- Table, bed, and toilet articles for children's dolls, Miniature. E. E. Willson. No. 157,403; Aug. 1.
- Tablecloths and napkins. Brien Manufacturing Co. No. 150,261; Jan. 3.
- Tablecloth and napkins. Hale Bros., Inc. No. 159,705; Oct. 3.
- Tablecloths, doilies, and mat covers. Kemp & Beatley, Inc. No. 161,517; Nov. 14.
- Table covers, handkerchiefs, doilies, etc., Cotton. United Turkey Red Company. No. 157,612; Aug. 8.
- Table linen, bed linen, etc. Rubino-Destaño Co. No. 161,830; Nov. 21.
- Tableware. Mappin & Webb Limited. No. 161,547; Nov. 14.
- Tableware. Mappin & Webb, Limited. No. 162,303; Dec. 12.
- Tableware, Certain. Rochester Stamping Company. No. 151,585; Feb. 7.
- Tableware, Certain unplated flat. International Silver Company. No. 157,619; Aug. 8.
- Tableware of precious metal or plated. Rochester Stamping Company. No. 162,356; Dec. 12.
- Tableware, Silver-plated. International Silver Company. No. 152,837; Mar. 7.
- Tables and stools, Foldable dining. Industrial Materials Co. No. 157,688; Aug. 15.
- Tables, Dining-room and library. Virginia Table Company. No. 160,811; Oct. 24.
- Tables for use by doctors, etc., and parts of such tables, Adjustable. W. G. Williams. No. 153,070; Mar. 7.
- Tablet, Ironing. Bestever Products Co. No. 155,309; May 23.
- Tablet, Liver. H. L. Asselin. No. 161,048; Nov. 7.
- Tablet, Medicinal tonic. Ironglad Company. No. 158,235; Aug. 29.
- Tablets and papeteries, Writing. Marshall Field & Company. No. 160,917; Oct. 31.
- Tablets, Blood-tonic. John Novak Company. No. 154,115; Apr. 4.
- Tablets, Certain medicinal. Masco Drug Company. No. 156,008; June 13.
- Tablets, composition books, student notebooks, etc., Writing. Osborn Paper Company. No. 159,468; Sept. 26.
- Tablets for cataracts. A. Gardunó y Solórzano. No. 156,428; June 20.
- Tablets for treatment of anæmia, loss of appetite, and as a general tonic. Raisin Products Co. of America. No. 158,522; Sept. 5.
- Tablets, Gland. E. C. Treuting. No. 158,119; Aug. 22.
- Tablets, Indigestion. H. C. Van Buskirk. No. 159,139; Sept. 19.
- Tablets, Laundry. S. I. Parker. No. 155,174; May 16.
- Tablets, Laxative. A. Arend Drug Co. No. 151,421; Feb. 7.
- Tablets, Laxative. J. M. Kappus. No. 157,348; Aug. 1.
- Tablets, Laxative. E. Loesch. No. 158,003; Aug. 22.
- Tablets, Laxative. Plax Company. No. 159,478; Sept. 26.
- Tablets, Laxative aspirin. Butler & Cosgrave. No. 151,440; Feb. 7.
- Tablets, Medicated candy. Seven Oils Company. No. 150,562; Jan. 3.
- Tablets, Medicinal. C. E. Kiesling. No. 152,207; Feb. 21.
- Tablets, Medicinal throat. Devon Laboratories Co. No. 155,666; June 6.
- Tablets or powders, Semilaxative. W. A. Tichenor. No. 156,442; June 20.
- Tablets, Throat. Boots Pure Drug Company. No. 161,419; Nov. 14.
- Tablets to be used for indigestion. J. E. De Van. No. 157,926; Aug. 22.
- Tablets used as a blood purifier and general blood tonic. Radium Research Laboratories. No. 159,745; Oct. 3.
- Tablets, Writing. Western Tablet and Stationery Company. No. 154,852; May 9.
- Tachometers. Service Motor Truck Co. No. 162,455; Dec. 12.
- Tachometers and odometers. North East Electric Company. No. 160,257; Oct. 17.
- Tackle blocks. J. H. Flynn, Jr. No. 152,401; Feb. 28.
- Tackle blocks. P. B. Seiter. No. 155,285; May 23.
- Tacks, Carpet-laying. G. G. Roberts Corporation. No. 156,545; June 27.
- Tacks, nails, and rivets. Atlas Tack Corporation. No. 157,252; July 25.
- Tacks, Thumb. Twistout Thumb Tack Company. No. 157,228; July 25.
- Tacks, Upholsterers'. G. G. Roberts Corporation. No. 155,065; May 16.
- Tafteta cloth. Ulrich & Donaldson. No. 161,657; Nov. 14.
- Taffy and chocolate marshmallows, Peanut and other. G. D. Hammerbacher. No. 151,792; Feb. 14.
- Taffy, Chocolate. L. Mahnen. No. 162,300; Dec. 12.
- Taffy or molasses candy. H. A. Banks. No. 156,834; July 18.
- Tags. Tagit Company. No. 150,618; Jan. 3.
- Tags, Shipping. International Tag Co. No. 153,471; Mar. 21.
- Talcum and face powders, perfume, toilet water. Or-Blos-Co. No. 150,504; Jan. 3.
- Talcum powder. Lamson Brothers Co. No. 161,708; Nov. 14.
- Talking and dictating machines and records for talking machines. Vox-Schallplatten- und Sprechmaschinen-Aktiengesellschaft. No. 161,656; Nov. 14.
- Talking-machine needles. S. Bennis. No. 157,408; Aug. 1.
- Talking-machine needles. Brilliantone Steel Needle Co. of America. No. 152,692; Mar. 7.
- Talking-machine needles. W. E. Morrow. No. 156,714; July 11.
- Talking-machine records. Wallace Institute. No. 160,758; Oct. 24.
- Talking-machine records and music rolls. Arto Co. No. 152,669; Mar. 7.
- Talking-machine records, Transportation package for. Reco-Rap Company. No. 159,067; Sept. 19.
- Talking machine reproducers and needles. Everybody's Talking Machine Company. No. 155,571; May 30.
- Talking-machine springs. Everybody's Talking Machine Company. No. 158,213; Aug. 29.
- Talking machines. Hochschild, Kohn & Company. No. 155,335; May 23.
- Talking machines and music boxes. Lyon & Healy. No. 156,703; July 11.
- Talking machines and parts. Perfektone Corporation. No. 158,279; Aug. 29.
- Talking machines and parts and supplies therefor, Certain. International Talking Machine Company. No. 155,726; June 6.
- Talking machines and phonographs. Sonora, Inc. No. 161,300; Nov. 7.
- Talking machines and records. Polyphonwerke Aktien-gesellschaft. No. 151,213; Jan. 24.
- Talking machines and supplies. Perfektone Corporation. No. 155,271; May 23.
- Talking machines and talking-machine needles, record repeaters, etc. Reflexo Products Co. No. 155,275; May 23.
- Talking machines, phonographs, and music boxes. Sonora, Inc. No. 156,817; July 11.
- Talking machines, phonographs, music boxes. Sonora, Inc. No. 150,975; Jan. 10.
- Talking machines, talking-machine parts, records, and needles. H. S. Berfimer. Nos. 158,179-81; Aug. 29.
- Tam o'Shanter hats and bonnets, Linings for. Henry Wallner & Son. No. 151,002; Jan. 10.
- Tank balls. Wolverine Brass Works. No. 152,647; Feb. 28.
- Tank with operative and connecting fittings and toilet bowl with connection spud to tank. Pacific Porcelain Ware Co. No. 161,716; Nov. 14.
- Tanks. Biggs Boiler Works Co. No. 153,663; Mar. 28.
- Tanks by fluid pressure, Device for indicating liquid level in. J. Maccallum, jr. No. 162,540; Dec. 19.
- Tanks for industrial and manufacturing operations. Biggs Boiler Works Co. The. No. 153,915; Mar. 28.
- Tanks, Metallic. Amco Sales Corporation. No. 152,337; Feb. 28.
- Tanks or containers for liquids, Steel. Glass Coating Company. The. No. 151,136; Jan. 24.
- Tanning extracts. New York Quebracho Extract Company. Nos. 151,563-5; Feb. 7.
- Tanning extracts. New York Quebracho Extract Company. No. 155,497; May 30.
- Tanning extracts. J. S. Young & Company. Nos. 150,660-1; Jan. 3.
- Tanning extracts, Solid and liquid. Gerb- und Farbstoffwerke H. Renner & Co. Aktien-Gesellschaft. No. 161,479; Nov. 14.
- Tanning hides, Chemical used for. Rohm & Haas Company. No. 154,140; Apr. 4.
- Tape, Adhesive. Bauer & Black. No. 153,975; Apr. 4.
- Tape, Bias. R. Ferguson. No. 158,435; Sept. 5.
- Tape, Bias seam. Economy Bias Binding Company. No. 157,808; Aug. 15.

Alphabetical list of trade-marks—Continued.

- Tape, Sealing. Liberty Paper Co. No. 154,997; May 16.
 Tape, Sealing. Liberty Paper Co. No. 159,413; Sept. 26.
 Tape, Sealing. Liberty Paper Co. Nos. 162,534-5; Dec. 19.
 Tape-serving device. American Nonseal Works, Inc. No. 161,737; Nov. 21.
 Tapes and braids. George W. Kavanaugh, Inc. No. 151,152; Jan. 24.
 Tapes, elastic webbing, dress belting, Binding. Kranish Bros. No. 162,803; Dec. 26.
 Tapioca and tapioca puddings, Prepared. Minute Tapioca Company. No. 161,824; Nov. 21.
 Tapioca preparations. Minute Tapioca Company. No. 154,635; Apr. 18.
 Tappets, Oil-cushion. Soenksen-Wolff-Spiers Company. No. 157,286; July 25.
 Tar compounds and rubber compositions, etc. Detroit White Lead Works. No. 155,949; June 13.
 Tarpaulin, wagon covers, and tents. H. Wenzel Tent & Duck Company. No. 157,243; July 25.
 Tea. C. H. Kroneberger & Co. No. 151,836; Feb. 14.
 Tea. McCarthy Bros. No. 162,297; Dec. 12.
 Tea. L. H. Parke & Co. No. 21,432; renewed July 12, 1922.
 Tea. Paxton & Gallagher. Nos. 21,267-8; renewed June 7, 1922.
 Tea. Paxton & Gallagher. No. 21,847; renewed Oct. 4, 1922.
 Tea. Paxton & Gallagher. No. 21,941; renewed Nov. 8, 1922.
 Tea. Ridenour-Baker Grocery Company. No. 156,043; June 13.
 Tea. Yangtze Corporation. No. 155,132; May 16.
 Tea and coffee. American Grocers Society, Inc. No. 151,658; Feb. 14.
 Tea and coffee. J. A. Folger & Co. No. 151,761; Feb. 14.
 Tea, Blended. L. H. Parke & Co. No. 21,431; renewed July 12, 1922.
 Teakettles. Wagner Manufacturing Company. No. 162,931; Dec. 26.
 Teakettles, skillets, stew kettles, meat roasters, coffee and tea pots, etc., Aluminum. Burns Pattern & Machine Company. No. 155,210; May 23.
 Teats for feeding bottles, baby soothers, etc. S. Maw, Son and Sons, Limited. No. 152,228; Feb. 21.
 Teeth, Alloy for the restoration of broken-down. J. C. Schwartz. No. 158,803; Sept. 12.
 Teeth, Artificial. Universal Dental Company. No. 154,210; Apr. 4.
 Teeth, Artificial. Universal Dental Co. No. 154,409; Apr. 11.
 Teeth, Artificial. Universal Dental Company. No. 158,844; Sept. 12.
 Teeth, Cleansing preparation for the. Cell-U-Base Corporation. No. 160,843; Oct. 31.
 Teeth, Filling material for. A. A. Brown. No. 161,686; Nov. 14.
 Teeth, Powdered cleaner for false. Neo Products Co. No. 157,723; Aug. 15.
 Telephone and radio receiving sets. Magnavox Company. Nos. 158,488-90; Sept. 5.
 Telephone and telegraph lines, Certain articles of hardware and anchoring appliances for. Western Electric Company. No. 159,582; Sept. 26.
 Telephone mouth pieces, Disinfectant-holder attachment for. Upressit Products Corporation. No. 152,329; Feb. 21.
 Telephone mufflers. Mute-A-Phone Corporation. No. 153,259; Mar. 14.
 Telephone receivers. C. Brandes, Inc. No. 160,082; Oct. 10.
 Telephone receivers. C. Brandes, Inc. No. 161,010; Oct. 31.
 Telephone register, Blank. Hauser & Well. No. 152,598; Feb. 28.
 Telephone, telegraph, and conducting wire. Indiana Steel & Wire Co. No. 161,017; Oct. 31.
 Telephonic apparatus. G. Boissonnault Company. Nos. 156,630-1; July 11.
 Telescopic instruments, Binocular. A. Perrin. No. 158,280; Aug. 29.
 Temperature-indicating devices for engines. Motometer Company. No. 150,907; Jan. 10.
 Temperature-registering devices. F. D. Windell. No. 156,473; June 20.
 Tennis rackets. Harry C. Lee & Company. No. 154,993; May 16.
 Tents. Ames Harris Neville Co. No. 153,398; Mar. 21.
 Tents. Brooks Tent & Awning Company. No. 162,692; Dec. 26.
 Tents. United States Tent & Awning Company. No. 160,036; Oct. 10.
 Tents and awnings. Stoll Manufacturing Co. No. 152,633; Feb. 28.
 Tents and covers, Canvas. Barnett Canvas Goods & Bag Co. No. 156,995; July 25.
 Tents, awnings, &c. Clifton Mfg. Company. Nos. 150,295-9; Jan. 3.
 Tents, awnings, paulins, tarpaulins, etc. Clifton Mfg. Company. No. 159,849; Oct. 10.
 Tents, awnings, paulins, tarpaulins, and detached waterproof wagon covers. Clifton Mfg. Company. No. 157,028; July 25.
 Tents of canvas or other fabric, Shelter. F. O. Berg. No. 159,806; Oct. 10.
 Tents, tarpaulin, and wagon covers. Mound City Duck and Rubber Co. No. 159,958; Oct. 10.
 Terpineol, hair restorer and tonic, toilet waters, Perfumed liquid. I. Berkenfield. No. 153,576; Mar. 21.
 Textile, Articles made of. F. Gould. No. 157,966; Aug. 22.
 Textile articles—namely, hosiery. The Paramount Knitting Co. No. 158,765; Sept. 12.
 Textile fabric. M. W. Grinnell. No. 157,088; July 25.
 Textile fabric in the piece, Shoe-lining. W. H. Holbrook Company. No. 155,154; May 16.
 Textile fabrics. Irish Linen Society. No. 159,387; Sept. 26.
 Textile fabrics. McDonald Bros. Co. No. 150,888; Jan. 10.
 Textile fabrics and piece goods, hair nets, lace curtains. Broadway Bargain House. No. 152,051; Feb. 14.
 Textile fabrics, Certain. American Wholesale Corporation (Baltimore Bargain House). No. 155,193; May 23.
 Textile fabrics, Certain. Wm. Anderson Textile Mfg. Co. No. 152,114; Feb. 21.
 Textile fabrics, Certain. Ely & Walker Dry Goods Company. No. 157,936; Aug. 22.
 Textile fabrics, Certain. Esmond Mills. No. 158,944; Sept. 19.
 Textile fabrics, Certain. A. Seril. No. 152,269; Feb. 21.
 Textile fabrics in the piece, Woven. Bernhard Ulmann Co. Nos. 152,525-6; Feb. 28.
 Textile fabrics used as a foundation for art needlework, Woven. Bernhard Ulmann Co. No. 156,452; June 20.
 Textile fabrics, Worsled and woolen. Holden-Leonard Company. No. 161,503; Nov. 14.
 Textile machinery, Thread guides for. Mitchell-Bissell Company. No. 152,233; Feb. 21.
 Textile machinery, Thread guides for. Mitchell-Bissell Company. Nos. 155,259-60; May 23.
 Textile piece goods. I. F. Harvey. No. 157,678; Aug. 15.
 Theft-preventing device, Electrically-operated. W. Jamro. No. 160,893; Oct. 31.
 Theobromine sodium acetate. Societeit voor Chemische Industrie "Katwijk." No. 154,390; Apr. 11.
 Therapeutics, Solution for parenteral protein. Chemische Fabrik von Heyden, Aktiengesellschaft. No. 161,437; Nov. 14.
 Thermocouple stems. Taylor Instrument Companies. No. 162,138; Dec. 15.
 Thermometers. Taylor Instrument Companies. No. 162,139; Dec. 5.
 Thermometers and thermometric instruments. L. S. Brach. No. 153,669; Mar. 28.
 Thermometers, barometers, etc. A. T. Hespe. No. 154,293; Apr. 11.
 Thermometers, Clinical. R. Franklin. No. 152,402; Feb. 28.
 Thermometers, Indicating. Newberry & Nichols. No. 150,916; Jan. 10.
 Thermostats and certain thermostatic appliances. Robertshaw Mfg. Co. No. 151,401; Jan. 31.
 Thermostats, Plain and clock. American Radiator Company. No. 161,738; Nov. 21.
 Thread, Cotton. Clark Thread Company. No. 20,528; renewed Dec. 29, 1921.
 Thread, Cotton. Clark Thread Company. Nos. 20,529-30; renewed Dec. 29, 1921.
 Thread, Cotton. Clark Thread Company. Nos. 20,608-9; renewed Jan. 19, 1922.
 Thread, Cotton. Societe Francaise de Cotons a Coudre (Societe Anonyme). Nos. 151,234-45; Jan. 24.
 Thread, Linen. Linen Thread Co. No. 162,913; Dec. 26.
 Thread, Linen. Smith & Dove Mfg. Co. No. 154,155; Apr. 4.
 Thread, Linen. Smith & Dove Mfg. Co. No. 159,762; Oct. 3.
 Thread, Linen. Smith & Dove Mfg. Co. No. 160,296; Oct. 17.
 Thread, Mercerized and plain cotton. A. J. Rothstein. Nos. 160,805-6; Oct. 24.
 Thread, Mercerized and plain cotton. A. J. Rothstein. No. 161,026; Oct. 31.
 Thread, Sewing. Holland Mfg. Co. Nos. 151,169-70; Jan. 24.
 Thread, Sewing. Holland Mfg. Co. No. 154,443; Apr. 11.
 Thread and yarn. Clark Thread Company. No. 159,848; Oct. 10.
 Thread and yarn. Flock Manufacturing Company. No. 157,064; July 25.
 Thread and yarn. H. E. Locke & Company. No. 153,599; Mar. 21.
 Threads and yarns. Caravel Company. No. 159,835; Oct. 10.
 Threads and yarns. Heberlein & Cie., A. G. No. 154,044; Apr. 4.
 Threads and yarns of silk and artificial silk. A. H. Rice Company. No. 157,187; July 25.
 Threads, Artificial silk. Brainerd & Armstrong Company. No. 157,011; July 25.
 Threads, Cotton. Bay State Thread Works. No. 159,804; Oct. 10.
 Threads, Flax and cotton. J. E. Barbour Co. Nos. 162,628-9; Dec. 19.
 Threads or yarns, artificial-silk threads or yarns, etc., Pure-silk. J. L. Schweyer. No. 159,758; Oct. 3.

Alphabetical list of trade-marks—Continued.

- Threads, Sewing. Max Pollack & Co. No. 153,281; Mar. 14.
- Threads, Sewing. Max Pollack & Co. No. 154,132; Apr. 4.
- Threads, Sewing. Max Pollack & Co. Inc. No. 154,833; May 9.
- Threads, Sewing. Max Pollack & Co. No. 159,739; Oct. 3.
- Threads, yarns, and cottons. T. Buettner & Co. No. 162,630; Dec. 19.
- Thymol, menthol, essential oils suitable for production of perfumes, etc. Julian W. Lyon & Co. No. 158,005; Aug. 22.
- Ticket holders, Car, etc. Take-A-Tik Co. No. 150,619; Jan. 3.
- Tickets, Theater. Weldon, Williams & Lick. No. 158,370; Aug. 29.
- Ticking. American Importing Co. No. 150,709; Jan. 10.
- Ticking. New & Frank Company. No. 161,572; Nov. 14.
- Tickings, piece goods. Marshall Field & Company. No. 161,222; Nov. 7.
- Ties and cravats. Speedbo Neckwear Company. No. 151,248; Jan. 24.
- Ties and scarfs. L. Auerbach. Nos. 156,991-2; July 25.
- Ties, cravats, and four-in-hand ties. Friedman Bros. & Son Neckwear Company. No. 157,071; July 25.
- Tile and porcelain cleanser. Grady Mfg. Co. No. 151,781; Feb. 14.
- Tile, Building. Ottawa Fire Proofing Company. No. 159,728; Oct. 3.
- Tile, Hollow building. Vigo-American Clay Company. No. 159,234; Sept. 19.
- Tile or tile containing cork or wood pulp, Cork. Armstrong Cork Company. No. 159,162; Sept. 19.
- Tile, Roofing. O. Walter. No. 162,654; Dec. 19.
- Tiles, Ceramic. American Encaustic Tiling Co. No. 162,666; Dec. 26.
- Tillers. Scientific Farming Machinery Company. No. 151,940; Feb. 14.
- Timber joint plates. Midwest Steel & Supply Company. No. 162,553; Dec. 19.
- Timepieces. Luminite Company. No. 151,535; Feb. 7.
- Time-recording locks. Silent Watchman Corporation. No. 156,054; June 13.
- Timers for internal-combustion engines. Chicago Timer Factory Incorporated. Nos. 156,642-3; July 11.
- Tin plates. Teilo Tin-Plate Co. Nos. 19,804-6; renewed June 30, 1921.
- Tinware, japanned, and galvanized ware, sheet-metal products. F. H. Lawson Company. No. 153,481; Mar. 21.
- Tire carriers. Trexler Company. No. 157,224; July 25.
- Tire casings and tubes. The Victor Rubber Company. No. 154,850; May 9.
- Tire casings and tubes, Automobile. Corona Cord Tire Company. No. 159,855; Oct. 10.
- Tire casings and tubes, Rubber vehicle. United Rubber Company. No. 153,037; Mar. 7.
- Tire casings, Pneumatic. B. F. Goodrich Company. No. 150,826; Jan. 10.
- Tire casings, Pneumatic. B. F. Goodrich Company. No. 159,884; Oct. 10.
- Tire casings, Pneumatic. Star Rubber Company. No. 151,962; Feb. 14.
- Tire casings, Rubber. Gillette Rubber Co. No. 151,773; Feb. 14.
- Tire chains, Automobile. Off'N'On Chain Corporation. No. 157,554; Aug. 8.
- Tire-inflating devices. Tire Inflator Co. No. 160,313; Oct. 17.
- Tire patch, Rubber. Liberty Patch Company. No. 159,931; Oct. 10.
- Tire patches, reliners, shoes, and vulcanizing kits. Rubber Products and Machinery Company. No. 154,145; Apr. 4.
- Tire-protecting and skid-preventing devices. C. Kuentzel. No. 150,872; Jan. 10.
- Tire pumps. J. A. Strimple. No. 156,064; June 13.
- Tire pumps and valve grinders. Autouip Mfg. Co. No. 156,617; July 11.
- Tire pumps, grease guns, etc. Kentucky Tire Pump Co. No. 152,844; Mar. 7.
- Tire repair material for rubber tires. Fisk Rubber Company. No. 152,064; Feb. 14.
- Tire repair outfits, Rubber. E. F. Cogley. No. 155,313; May 23.
- Tire retreads. General Tire and Rubber Company. No. 156,869; July 18.
- Tire rubber patches, Inner. L. F. Lee. No. 159,929; Oct. 10.
- Tire-sealing compound. C. L. Brown. No. 151,317; Jan. 31.
- Tire-sealing compound. A. E. Gaylord. No. 158,681; Sept. 12.
- Tire talc. Harley-Davidson Motor Co. No. 161,697; Nov. 14.
- Tire-tube patches. F. H. Binninger. Nos. 156,838-9; July 18.
- Tire-tube rubber patches, raincoats, overshoes, etc. F. H. Binninger. No. 156,840; July 18.
- Tire valves. G. A. Ambler. No. 150,663; Jan. 3.
- Tire valves. A. Charpillot. No. 152,368; Feb. 28.
- Tire valves. Chicago Nipple Mfg. Co. of California. No. 162,482; Dec. 19.
- Fire valves, Dust cap for. Sabel & Balch. No. 159,503; Sept. 26.
- Tire vulcanizers. C. A. Shaler Company. No. 152,630; Feb. 28.
- Tires, B. F. Goodrich Company. No. 160,776; Oct. 24.
- Tires and all rubber articles, Rubber patches for. Justa Manufacturing Company. No. 159,920; Oct. 10.
- Tires and inner tubes. Black Hawk Tire & Rubber Company. No. 151,678; Feb. 14.
- Tires and inner tubes, India-rubber. George Spencer, Moulton & Co. Ltd. No. 160,021; Oct. 10.
- Tires and inner tubes, Pneumatic automobile. Dryden Rubber Company. No. 159,866; Oct. 10.
- Tires, and shoes, patches, plugs, and treads, and tire covers. Overseas Motor Service Corporation. No. 159,977; Oct. 10.
- Tires and tire casings. Malay Rubber Company. No. 160,791; Oct. 24.
- Tires and tire treads, Rubber vehicle. Gillette Rubber Company. No. 155,426; May 30.
- Tires and tubes, Automobile. Austin, Nichols & Co. No. 156,993; July 25.
- Tires and tubes, Automobile. Automobile Owners' Tire Corporation. No. 160,380; Oct. 24.
- Tires and tubes for vehicles. Racine Rubber Company. No. 159,993; Oct. 10.
- Tires and tubes for vehicles, Rubber or rubber and fabric. Brunswick-Balke-Collender Company. No. 156,827; July 11.
- Tires and tubes for vehicles, Rubber or rubber and fabric. Racine Rubber Company. No. 160,637; Oct. 24.
- Tires and tubes of rubber, Automobile. Blekre Tire & Rubber Company. No. 159,812; Oct. 10.
- Tires and tubes, Pneumatic rubber. Shapleigh Hardware Company. No. 160,014; Oct. 10.
- Tires and tubes, Rubber. Dayton Rubber Manufacturing Co. No. 151,732; Feb. 14.
- Tires and tubes therefor, Elastic vehicle. The Goodyear Tire & Rubber Company. No. 151,779; Feb. 14.
- Tires, Automobile rubber. Edison Tire & Rubber Co. No. 159,618; Sept. 26.
- Tires, Automobile rubber. M. Greenspan. No. 154,037; Apr. 4.
- Tires, Automobile rubber. New Tread Tire Company. No. 159,968; Oct. 10.
- Tires, Blow-out boots for vehicle. Fowler-Williams Co. No. 160,484; Oct. 24.
- Tires, Coating for automobile. L. Ingraham. No. 151,511; Feb. 7.
- Tires, Compound for sealing punctures and slow leaks in. Clinton & Cameron. No. 155,215; May 23.
- Tires, Cord. New England Tire & Rubber Company. No. 162,015; Nov. 28.
- Tires, cord tires, and fabric tires, Inner tubes for pneumatic. Columbia Tire and Rubber Company. No. 159,611; Sept. 26.
- Tires, Elastic rubber. Norwalk Tire and Rubber Company. No. 160,608; Oct. 24.
- Tires, etc., Pressure gauges for pneumatic. Greist Manufacturing Company. No. 154,958; May 16.
- Tires for automobiles. Rubber. McKone Tire & Rubber Company. No. 159,941; Oct. 10.
- Tires for automobiles, Rubber. Tuscan Tire & Rubber Company. No. 157,227; July 25.
- Tires for motor vehicles, Rubber. New Process Company. No. 160,797; Oct. 24.
- Tires, including the casing and inner tube, Rubber automobile. Cord Tire Corporation. No. 159,612; Sept. 26.
- Tires, India-rubber. India Rubber, Gutta Percha & Telegraph Works Company Limited. No. 160,535; Oct. 24.
- Tires, Inner tubes for pneumatic. H. V. Veghte. No. 156,558; June 27.
- Tires, inner tubes for tires, tire liners, and tire patches, Automobile. Climax Rubber Co. No. 156,647; July 11.
- Tires, inner tubes, reliners, patches, Automobile. Times Square Auto Supply Co. No. 153,332; Mar. 14.
- Tires, Leakproof composition for. Two Star Mfg. Co. No. 153,885; Mar. 28.
- Tires, Pneumatic rubber. Lee Tire & Rubber Co. No. 150,448; Jan. 3.
- Tires, Pneumatic rubber. Monroe Tire Corporation. No. 155,901; June 6.
- Tires, Pneumatic rubber. Simplex Tire & Rubber Company. No. 160,018; Oct. 10.
- Tires, Pneumatic rubber vehicle. Ambassador Tire Corporation. No. 159,795; Oct. 10.
- Tires, Puncture-healing composition for pneumatic. A. Grant. No. 158,446; Sept. 5.
- Tires, Puncture-sealing composition and preservative for pneumatic. Jackson Laboratories. No. 154,981; May 16.
- Tires, Resilient vehicle. Kelly-Springfield Tire Company. No. 155,463; May 30.
- Tires, Retread strips for automobile. New Standard Rubber Co. No. 156,489; June 20.
- Tires, Rubber. Bergougnan Rubber Corporation. No. 159,807; Oct. 10.
- Tires, Rubber. Cupples Company Manufacturers. No. 160,438; Oct. 24.
- Tires, Rubber. C. J. Dalton. No. 159,863; Oct. 10.
- Tires, Rubber. Doss Rubber & Tube Co. No. 150,336; Jan. 3.
- Tires, Rubber. Gates Rubber Company. No. 159,620; Sept. 26.
- Tires, Rubber. Hudson Tire Co. No. 157,106; July 25.

Alphabetical list of trade-marks—Continued.

- Tires, Rubber. International India Rubber Corporation. No. 154,828; May 9.
- Tires, Rubber. B. Lichtig & Son Inc. No. 157,129; July 25.
- Tires, Rubber. United States Tire Company. No. 151,987; Feb. 14.
- Tires, Rubber automobile. Fisk Rubber Company. No. 157,063; July 25.
- Tires, Rubber automobile. Smith Rubber & Tire Co. No. 154,845; May 9.
- Tires, Rubber or rubber and fabric. Racine Rubber Company. No. 159,994; Oct. 10.
- Tires, Rubber pneumatic. Hardware Tire Corporation. No. 159,623; Sept. 26.
- Tires, rubber-tire casings, and inner tubes, Rubber. Canton-Blackstone Company. No. 155,311; May 23.
- Tires, steel-tired wheels, and solid rolled-steel wheels, Steel. Standard Steel Works Company. No. 162,901; Dec. 26.
- Tires, tubes, and accessories. Fisk Rubber Company. No. 154,025; Apr. 4.
- Tires, tubes, and patches, Automobile. National Auto Supply Co. No. 159,961; Oct. 10.
- Tires, tubes, and repair parts thereof, Certain. Ashland Tire and Rubber Company. No. 151,666; Feb. 14.
- Tires, tubes, etc. Virginia-Carolina Rubber Co. No. 154,411; Apr. 11.
- Tires, Tubes for pneumatic. Funsten Brothers & Company. No. 160,191; Oct. 17.
- Tires, tubes, patches, etc., Certain. General Tire & Rubber Co. No. 152,068; Feb. 14.
- Tires, Vehicle. George K. Culp, Inc. No. 159,860; Oct. 10.
- Tires, Vehicle. Goodyear Tire & Rubber Company. No. 159,885; Oct. 10.
- Title and identification certificate. Security Certificate Company. No. 156,751; July 11.
- Toaster, air heater, and hair drier, Electric. FitzGerald Mfg. Company. No. 158,666; Sept. 12.
- Tobacco. American Tobacco Company. No. 150,712; Jan. 10.
- Tobacco. Barlow-Moore Tobacco Company. No. 153,114; Mar. 14.
- Tobacco. Christian Peper Tobacco Co. Nos. 152,721-2; Mar. 7.
- Tobacco. Consolidated Companies Inc. No. 152,375; Feb. 28.
- Tobacco. Liggett & Myers Tobacco Company. No. 150,881; Jan. 10.
- Tobacco and cigarettes. American Tobacco Company. No. 150,713; Jan. 10.
- Tobacco and cigarettes. American Tobacco Company. No. 154,866; May 16.
- Tobacco and cigarettes. American Tobacco Company. No. 155,919; June 13.
- Tobacco and cigarettes. Liggett & Myers Tobacco Company. No. 154,998; May 16.
- Tobacco and cigarettes, Smoking. British-American Tobacco Company. No. 155,388; May 30.
- Tobacco and cigarettes, Smoking. John Sinclair Ltd. No. 160,851; Oct. 17.
- Tobacco and cigarettes, Smoking. John Sinclair Ltd. No. 160,668; Oct. 24.
- Tobacco and cigarettes, Smoking and chewing. Liggett & Myers Tobacco Company. Nos. 150,882-4; Jan. 10.
- Tobacco and cigars, Paper containers for. National Paper Can Company. No. 161,969; Nov. 28.
- Tobacco, cigarettes, cigars, and snuff. Gallaher, Ltd. No. 152,781; Mar. 7.
- Tobacco, cigarettes, cigars, and snuff. J. Wix. No. 160,749; Oct. 24.
- Tobacco, cigarettes, cigars, and snuff, Smoking. Gallaher Ltd. Nos. 155,420-22; May 30.
- Tobacco, cigarettes, cigars, and snuff, Smoking and chewing. Gallaher, Ltd. No. 155,423; May 30.
- Tobacco, cigarettes, cigars, and snuff, Smoking and chewing. "Turmac" Turkish-Macedonian Tobacco Company. No. 155,101; May 16.
- Tobacco, cigars, and cigarettes. John Sinclair, Ltd. No. 154,153; Apr. 4.
- Tobacco, cigars, and cigarettes. Tuckett Tobacco Company. No. 156,602; July 4.
- Tobacco, cigars, and cigarettes, Smoking and chewing. John Sinclair Ltd. No. 155,527; May 30.
- Tobacco, cigars, cigarettes. A. Dunhill. Nos. 155,951-2; June 13.
- Tobacco, cigars, cigarettes. John Sinclair, Ltd. No. 154,152; Apr. 4.
- Tobacco, cigars, cigarettes, and snuff, Smoking and chewing. "Turmac" Turkish-Macedonian Tobacco Co. Nos. 158,121-2; Aug. 22.
- Tobacco, cigars, cigarettes, and stogies. V. Vivaudou, Inc. No. 156,458; June 20.
- Tobacco, Cut and plug. Tuckett Tobacco Company. No. 159,556; Sept. 26.
- Tobacco extract. Trahern Tobacco Co. No. 155,294; May 23.
- Tobacco extract for flavoring tobacco. Trahern Tobacco Co. No. 156,443; June 20.
- Tobacco humidifiers. Humidisk Company. No. 161,505; Nov. 14.
- Tobacco, Leaf. Liggett & Myers Tobacco Co., No. 150,880; Jan. 10.
- Tobacco, Leaf. Universal Leaf Tobacco Co. No. 153,343; Mar. 14.
- Tobacco moistener. Chicago Ferrule & Nut Company. No. 162,902; Dec. 26.
- Tobacco, Plug. Cumberland Tobacco Works, Inc. No. 154,913; May 16.
- Tobacco products. Rauch Cigar Company. No. 155,059; May 16.
- Tobacco products. S. A. Reynolds. No. 150,953; Jan. 10.
- Tobacco products. "Turmac." Turkish-Macedonian Tobacco Company. No. 150,989; Jan. 10.
- Tobacco products, Mouthpiece-holders for. C. P. Rhodes. No. 152,966; Mar. 7.
- Tobacco, Smoking. Bailey Bros. Inc. No. 157,861; Aug. 22.
- Tobacco, Smoking. A. Dunhill. No. 161,454; Nov. 14.
- Tobacco, Smoking. W. A. Hollingsworth. No. 150,850; Jan. 10.
- Tobacco, Smoking. John Sinclair Ltd. No. 153,812; Sept. 12.
- Tobacco, Smoking. Robert Sinclair Tobacco Company. No. 150,970; Jan. 10.
- Tobacco, Smoking. Zorro Tobacco Co. No. 154,190; Apr. 4.
- Tobacco, Smoking. Zorro Tobacco Co. No. 155,133; May 16.
- Tobacco, Smoking and chewing. Excelsior Tobacco Co. No. 160,468; Oct. 24.
- Tobacco, Smoking and chewing. Christian Peper Tobacco Co. No. 155,214; May 23.
- Tobacco, snuff, cigars, cigarettes. L. Przedecki. No. 150,935; Jan. 10.
- Tobacco, Twist and granulated smoking. Samson Tobacco Company. No. 152,979; Mar. 7.
- Toe protectors. Jiffy-Andy Toe Protector Co. No. 150,858; Jan. 10.
- Toilet and medicinal preparation, Certain. M. J. Tehan. No. 152,282; Feb. 21.
- Toilet and medicinal preparations, Certain. Atkins-Blakeley Chemical Company. No. 160,821; Oct. 31.
- Toilet and medicinal preparations, Certain. G. S. Kolar Laboratories. No. 152,210; Feb. 21.
- Toilet and medicinal preparations, Certain. F. J. O'Rourke. No. 160,935; Oct. 31.
- Toilet and pharmaceutical preparations, Certain. Auld Acquaintance Co. No. 160,824; Oct. 31.
- Toilet articles. Hannibal Pharmacal Company. No. 153,744; Mar. 28.
- Toilet cases and rolls, week-end and overnight bags, etc. Hauser & Weil. No. 158,976; Sept. 19.
- Toilet cases, Leather. M. W. Cooper. No. 154,255; Apr. 11.
- Toilet, chemical, and medicinal preparations, Certain. Larkin Co. No. 152,090; Feb. 14.
- Toilet, chemical, and medicinal preparations, Certain. Palmers, Limited. No. 160,264; Oct. 17.
- Toilet creams, astringent lotions, etc. A. T. Clapper. No. 154,245; Apr. 11.
- Toilet lotion. Hiscox Chemical Works. No. 160,881; Oct. 31.
- Toilet powders and compacts. A. Bourjols & Co. No. 155,624; June 6.
- Toilet preparation. Aetna Chemical Company. No. 152,110; Feb. 21.
- Toilet preparation. A. M. Bergeron. No. 161,683; Nov. 14.
- Toilet preparation. Empress Manufacturing Company. No. 155,414; May 30.
- Toilet preparation. E. S. Givens. No. 151,491; Feb. 7.
- Toilet preparation. Kalish Pharmacy. No. 152,841; Mar. 7.
- Toilet preparation. J. Ogilvie. No. 151,041; Jan. 10.
- Toilet preparation, Certain. Lustrite Corporation. No. 150,456; Jan. 8.
- Toilet preparation, Certain. N. P. Stone. No. 150,615; Jan. 3.
- Toilet preparation for coloring and treating eyebrows, eyelashes, and hair. Trece Laboratories, Inc. No. 155,850; June 6.
- Toilet preparation for the hair and scalp, Medicated. Conner and Walters Company. No. 157,319; Aug. 1.
- Toilet preparations. J. M. Aboussleman. No. 161,035; Nov. 7.
- Toilet preparations. Harriet Hubbard Ayer. No. 150,239; Jan. 3.
- Toilet preparations. Franco-American College Inc. No. 151,481; Feb. 7.
- Toilet preparations. H. Gabilla. No. 154,029; Apr. 4.
- Toilet preparations. N. A. Gleim. No. 150,379; Jan. 3.
- Toilet preparations. Imperial Perfume Co. No. 157,844; Aug. 1.
- Toilet preparations. D. Jaquet. No. 157,528; Aug. 8.
- Toilet preparations. D. Jaquet. No. 157,989; Aug. 22.
- Toilet preparations. Kabushiki Kaisha Hirao Sampei Shoten. No. 161,793; Nov. 21.
- Toilet preparations. W. Kahn. No. 159,392; Sept. 26.
- Toilet preparations. Lehmann & Bohné. No. 155,471; May 30.
- Toilet preparations. Magnin & Co. No. 158,009; Aug. 22.
- Toilet preparations. T. Noonan & Sons Company. No. 159,463; Sept. 26.
- Toilet preparations. C. C. Oliver. No. 158,046; Aug. 22.

- Toilet preparations. Parker-Belmont & Co. No. 160,107; Oct. 10.
- Toilet preparations. Perfection Laboratories. No. 157,372; Aug. 1.
- Toilet preparations. Pierre Namron Company. No. 151,211; Jan. 24.
- Toilet preparations. E. Powers. No. 157,375; Aug. 1.
- Toilet preparations. M. Shields. No. 159,522; Sept. 26.
- Toilet preparations. I. J. Tetlow. No. 156,440; June 20.
- Toilet preparations. I. J. Tetlow. No. 158,309; Aug. 29.
- Toilet preparations. Madame C. J. Walker, Inc. No. 157,401; Aug. 1.
- Toilet preparations. John Wanamaker, Philadelphia. No. 155,861; June 6.
- Toilet preparations. S. F. Westheimer. No. 157,606; Aug. 8.
- Toilet preparations. Williams & Frederick, Inc. No. 158,147; Aug. 22.
- Toilet preparations. Certain. Affinity Company. No. 157,298; Aug. 1.
- Toilet preparations, Certain. K. Aucott. No. 160,817; Oct. 24.
- Toilet preparations, Certain. L. Bader. No. 153,654; Mar. 28.
- Toilet preparations, Certain. Bailey Co. No. 152,118; Feb. 21.
- Toilet preparations, Certain. Beautyaid Company. No. 158,176; Aug. 29.
- Toilet preparations, Certain. J. L. Blades. No. 158,390; Sept. 5.
- Toilet preparations, Certain. Bowman Drug Co. No. 150,258; Jan. 3.
- Toilet preparations, Certain. J. H. Calisher. No. 157,885; Aug. 22.
- Toilet preparations, Certain. Cheramy, Incorporated. No. 162,151; Dec. 5.
- Toilet preparations, Certain. Crystal Chemical Company. No. 155,661; June 6.
- Toilet preparations, Certain. Cupid Beauty Company. No. 152,147; Feb. 21.
- Toilet preparations, Certain. H. W. Davis. No. 150,324; Jan. 3.
- Toilet preparations, Certain. De Pree Chemical Company. No. 157,324; Aug. 1.
- Toilet preparations, Certain. Enola Cosmetic Co. No. 160,858; Oct. 31.
- Toilet preparations, Certain. Hamoes Limited. No. 160,205; Oct. 17.
- Toilet preparations, Certain. G. T. Hastings. Nos. 160,879-80; Oct. 31.
- Toilet preparations, Certain. M. Heidelberg. No. 155,332; May 23.
- Toilet preparations, Certain. F. E. Hinkle. No. 155,444; May 30.
- Toilet preparations, Certain. R. A. Hudson Company. No. 156,304; June 20.
- Toilet preparations, Certain. D. Jaquet. No. 155,987; June 13.
- Toilet preparations, Certain. Jolie, Inc. Nos. 160,896-7; Oct. 31.
- Toilet preparations, Certain. R. P. King. No. 151,521; Feb. 7.
- Toilet preparations, Certain. Klinker Manufacturing Co. No. 154,078; Apr. 4.
- Toilet preparations, Certain. L. Kovacs. No. 160,099; Oct. 10.
- Toilet preparations, Certain. Lowell Company. No. 152,215; Feb. 21.
- Toilet preparations, Certain. Lowell Company. Nos. 152,216-17; Feb. 21.
- Toilet preparations, Certain. Lundborg Inc. No. 155,337; May 23.
- Toilet preparations, Certain. M. Miller. No. 150,475; Jan. 3.
- Toilet preparations, Certain. L. E. Morris. No. 150,485; Jan. 3.
- Toilet preparations, Certain. Henri Muraour & Cie. Nos. 156,356-7; June 20.
- Toilet preparations, Certain. National Products Co. No. 150,492; Jan. 3.
- Toilet preparations, Certain. C. Nieto de Herrera e Hijos. No. 157,887; Aug. 22.
- Toilet preparations, Certain. Oxzyn Company. No. 160,937; Oct. 31.
- Toilet preparations, Certain. M. Pasquier. No. 157,277; July 25.
- Toilet preparations, Certain. Societe La France. Toilet Goods Co. No. 160,297; Oct. 17.
- Toilet preparations, Certain. Steinfels Freres. Nos. 153,721-4; Mar. 28.
- Toilet preparations, Certain. V. Vivaudou, Inc. No. 151,308; Jan. 24.
- Toilet preparations, Certain. V. Vivaudou, Inc. No. 156,457; June 20.
- Toilet preparations, Certain. V. Vivaudou, Inc. No. 160,994; Oct. 31.
- Toilet preparations, Certain. Madam C. J. Walker Manufacturing Co. No. 153,556; Mar. 21.
- Toilet preparations, Certain. G. A. Wilson, Jr. No. 156,472; June 20.
- Toilet preparations and chemicals used in the manufacture of same. Gomez & Sloan. No. 155,697; June 6.
- Toilet preparations—witch hazel. Marshall Field & Company. No. 156,343; June 20.
- Toilet receptacles, Certain. E. I. du Pont de Nemours & Company. Nos. 154,194-5; Apr. 4.
- Toilet seats and toilet tanks, Wood. Builtwell Mfg. Co. No. 160,087; Oct. 10.
- Toilet specialties. Misner Manufacturing Co. No. 161,238; Nov. 7.
- Toilet tweezers and finger-nail files. San Antonio Drug Co. No. 152,981; Mar. 7.
- Toilet water. M. Shaffer Company. No. 157,835; Aug. 15.
- Toilet water. The J. B. Williams Company. No. 154,462; Apr. 11.
- Toilet water, scalp rub, hair tonic, etc. C. T. Naumann. No. 161,570; Nov. 14.
- Toilet waters and creams, face powders, etc. Crown Supply Company. No. 155,660; June 6.
- Toilet waters and perfumes. Koken Companies. No. 159,405; Sept. 26.
- Tomato catchup. J. Butler. No. 21,258; renewal June 7, 1922.
- Tomato catchup, chili sauce, and canned pork and beans. Greenbaum Bros. Inc. No. 156,679; July 11.
- Tomato sauce. Greco Canning Co. No. 162,255; Dec. 12.
- Tomato sauce, canned olives, cottonseed salad oil. Bragnio & Mustari. No. 156,633; July 11.
- Tomatoes, Fresh. Homestead Growers Assn. No. 150,410; Jan. 3.
- Toniques, sausages, soups, luncheon meat, etc. John Morrell & Company. No. 154,637; Apr. 18.
- Tonic. H. Canter. No. 157,471; Aug. 8.
- Tonic. J. De Lange. No. 157,323; Aug. 1.
- Tonic. Lilio Hay Company. No. 158,282; Aug. 29.
- Tonic and blood medicine, General. F. J. Kennedy. No. 156,317; June 20.
- Tonic and blood preparation, General. A. C. Wilson. No. 152,298; Feb. 21.
- Tonic, and blood purifier. A. M. Edwards. No. 155,954; June 13.
- Tonic and blood purifier, General. Mrs. W. H. Reynolds. No. 154,136; Apr. 4.
- Tonic and milk adjuvant, Building-up. S. J. Selkin. No. 161,294; Nov. 7.
- Tonic and reconstructive, General. American Apothecaries Company. No. 152,112; Feb. 21.
- Tonic and regulator, Women's. I. Lewyn. No. 159,412; Sept. 26.
- Tonic and remedy, Poultry. N. Gonick. No. 160,872; Oct. 31.
- Tonic and tissue-building preparation. Biochemical Food Products Corporation. No. 150,253; Jan. 3.
- Tonic, Blood. J. S. Davis. No. 155,663; June 6.
- Tonic, Blood and liver. A. B. Woodward Medicine Company. No. 152,010; Feb. 14.
- Tonic, Blood and nerve. The Clausen Zoller Company. No. 154,249; Apr. 11.
- Tonic, Blood and nerve. W. Lindsey. No. 158,249; Aug. 29.
- Tonic, Body. Chas. E. Lesters Co. No. 154,312; Apr. 11.
- Tonic, Certain. Dr. Peter Fahrney & Sons Co. No. 155,416; May 30.
- Tonic, Certain named. M. L. Moore. No. 154,335; Apr. 11.
- Tonic containing vitamins of yeast, Food. Yeast Tablet Co. No. 159,600; Sept. 26.
- Tonic diuretic for the kidneys and bladder. C. E. Wood. No. 158,149; Aug. 22.
- Tonic, Female. National Herb Medicine Company of Missouri. No. 153,805; Mar. 28.
- Tonic, Food. P. Franck. No. 152,779; Mar. 7.
- Tonic for certain named uses. Britt Manufacturing Company. No. 150,264; Jan. 3.
- Tonic for medicinal purposes, General. E. Barnett. No. 157,456; Aug. 8.
- Tonic for poultry, pigeons, and turkeys, General. Nu-Life Company. No. 158,043; Aug. 22.
- Tonic for rheumatism. Clyde Collins Company Inc. No. 150,300; Jan. 3.
- Tonic for scalp and hair. M. Shaffer Company. No. 161,295; Nov. 7.
- Tonic for the bowels. R. Berry Co. No. 150,249; Jan. 3.
- Tonic, General. J. Altieri. No. 161,040; Nov. 7.
- Tonic, General. American Laboratories Incorporated. No. 162,150; Dec. 5.
- Tonic, General. Barr-Nunn Company. No. 160,830; Oct. 31.
- Tonic, General. E. H. Cunningham. No. 157,321; Aug. 1.
- Tonic, General. E. Y. McCrackin. No. 153,235; Mar. 14.
- Tonic, General. A. C. Onnen. No. 153,814; Mar. 28.
- Tonic, General. W. F. Rhyne. No. 151,580; Feb. 7.
- Tonic, General. C. Rocchietta. No. 152,260; Feb. 21.
- Tonic, General. Chas. Segalas Company. No. 151,597; Feb. 7.
- Tonic, General. Society of Chemical Industry in Basle. No. 153,866; Mar. 28.
- Tonic, General. Stimule Company Inc. No. 160,024; Oct. 10.
- Tonic, General. "Vita Products," Inc. No. 154,412; Apr. 11.
- Tonic, General medicinal. Medio Distributing Co. No. 157,273; July 25.
- Tonic, General medicinal. Nu-Iron Laboratory Incorporated. No. 156,377; June 20.
- Tonic, General medicinal. Nu-Iron Laboratory Inc. No. 158,042; Aug. 22.
- Tonic, General uterus. J. Gesteira. No. 156,261; June 20.

Alphabetical list of trade-marks—Continued.

- Tonic, Herb. G. Coccicola. No. 150,303; Jan. 3.
 Tonic in liquid form, Blood and nerve. The Clausen Zoller Company. No. 152,132; Feb. 21.
 Tonic laxative, General. J. L. Herpich. No. 153,747; Mar. 28.
 Tonic, Liquid. General Laboratories. No. 160,869; Oct. 31.
 Tonic, Liquid. M. J. Olsen. No. 21,553; renewed Aug. 2, 1922.
 Tonic, Medicinal. H. T. Dewey & Sons Co. No. 154,265; Apr. 11.
 Tonic, Medicinal. A. J. George. No. 155,693; June 6.
 Tonic, Medicinal. Mere Miczulene. No. 150,902; Jan. 10.
 Tonic, Nerve and body. F. M. Welch. No. 150,644; Jan. 3.
 Tonic nutritive and alternative. Parke, Davis & Company. No. 150,512; Jan. 3.
 Tonic, Reconstructive. Mall Dunn Medicine Company. No. 159,690; Oct. 3.
 Tonic, Stomach, bowel, and liver. P. L. Bousquet. No. 160,840; Oct. 31.
 Tonic wine used for anæmia, convalescence, etc. J. Counord. No. 159,858; Oct. 10.
 Tonics and blood-building preparations. Reinschild Chemical Co. No. 156,399; June 20.
 Tonics and regulators, Poultry. Penna. Poultry Farm Remedies Co. No. 154,126; Apr. 4.
 Tonics, bitters, liniments, and sirups. J. W. James & Co. No. 22,567; renewed Feb. 28, 1923.
 Tonics, Medicinal. E. A. Morrissey Company. No. 158,266; Aug. 29.
 Tool handles, auger bits, and auger-bit sets, etc., Wooden. Power Supply Company. No. 162,867; Dec. 26.
 Tool handles, Steel-bar. Borden Company. No. 153,666; Mar. 28.
 Tools. L. G. Goldblatt. No. 161,696; Nov. 14.
 Tools. Skelton Tool Co. No. 159,524; Sept. 26.
 Tools. Vaughan & Bushnell Manufacturing Company. No. 150,906; Jan. 10.
 Tools and cutlery, Certain. Romer Axe and Tool Company. No. 156,045; June 13.
 Tools and machinery and repair parts therefor, Certain. Ingersoll-Rand Company. No. 151,510; Feb. 7.
 Tools and machinery, Certain. Goodell-Pratt Company. No. 156,520; June 27.
 Tools and machinery, Certain. Millers Falls Company. No. 156,709; July 11.
 Tools, Certain. Millers Falls Company. No. 159,442; Sept. 26.
 Tools, Certain. Smith & Hemenway Company. No. 162,120; Dec. 5.
 Tools, Machine. Acme Machine Tool Company. No. 155,186; May 23.
 Toothache liquid and wax, ointment. A. G. Wiswell. No. 150,497; June 20.
 Toothbrush containers, Antiseptic. B. L. Hoch. No. 158,982; Sept. 19.
 Toothbrushes. O. L. Chesnutt. No. 154,000; Apr. 4.
 Toothbrushes. Decoater Company. No. 160,444; Oct. 24.
 Toothbrushes. Florence Manufacturing Company. No. 158,436; Sept. 5.
 Toothbrushes. Irvin-Smith Company. No. 151,147; Jan. 24.
 Toothbrushes. E. A. Peck Manufacturing Company. No. 154,125; Apr. 4.
 Toothbrushes. Samstag & Hilder Bros. No. 151,225; Jan. 24.
 Toothbrushes. E. T. Slattery Company. No. 158,096; Aug. 22.
 Toothbrushes. United Drug Company. Nos. 158,553-4; Sept. 5.
 Toothbrushes. Western Bottle Manufacturing Company. No. 154,178; Apr. 4.
 Toothbrushes. P. B. T. Williams. Nos. 151,284-5; Jan. 24.
 Toothbrushes, cloth, hair, etc., brushes. San Antonio Drug Co. No. 152,493; Feb. 28.
 Toothbrushes, hairbrushes, and nailbrushes. Geo. R. Gibson Co. No. 153,175; Mar. 14.
 Tooth paste. American Druggists Syndicate. No. 150,216; Jan. 3.
 Tooth paste. American Sundries Company. No. 157,851; Aug. 22.
 Tooth paste. Atkins-Blakeney Chemical Company. No. 154,869; May 16.
 Tooth paste. J. J. Blackman. No. 157,869; Aug. 22.
 Tooth paste. A. B. Brill. No. 151,436; Feb. 7.
 Tooth paste. A. M. Bommer. No. 161,071; Nov. 7.
 Tooth paste. Dentifruit, Inc. No. 157,924; Aug. 22.
 Tooth paste. H. L. Fleming. No. 158,218; Aug. 29.
 Tooth paste. J. A. Hathaway. No. 161,156; Nov. 7.
 Tooth paste. K. C. Hudson. No. 155,719; June 6.
 Tooth paste. Hy-Gen-O Laboratory. No. 160,887; Oct. 31.
 Tooth paste. M. Kerbel. No. 154,307; Apr. 11.
 Tooth paste. National Drug Stores Corp. No. 150,491; Jan. 3.
 Tooth paste. Pyorr-Laris Company. No. 151,918; Feb. 14.
 Tooth paste. San Aprove Company. No. 156,411; June 20.
 Tooth paste. Sears, Roebuck and Co. No. 157,384; Aug. 1.
 Tooth paste. United States Dental Specialty Co. No. 161,325; Nov. 7.
 Tooth paste and mouth washes. G. L. Kitchen. No. 161,188; Nov. 7.
 Tooth paste and powder, Mouth wash, gas, and extracting fluids. H. N. Shor. No. 150,567; Jan. 3.
 Tooth paste, astringent lotions, and washes for the teeth and mouth. F. J. Austin. No. 153,969; Apr. 4.
 Tooth paste, cold cream, complexion powder, etc. Nathan & Cie. Laboratories Cadum. No. 152,239; Feb. 21.
 Tooth paste, massage cream, etc. American Druggists Syndicate. No. 156,161; June 20.
 Tooth pastes, antiseptic solution, and germicidal disinfectant. Kolynos Company. No. 150,439; Jan. 3.
 Tooth pastes, powder, and wash. Laboratorium "Leo," Dr. Phil. Ottomar Heineius v. Meyenburg. No. 150,444; Jan. 3.
 Toothpicks. Berst-Forster-Dixfield Company. No. 161,348; Nov. 7.
 Tooth polishes used by dentists. L. D. Caulk Company. No. 152,052; Feb. 14.
 Tooth wash. F. W. Ames. No. 151,419; Feb. 7.
 Topcoats. Joseph Elstein & Sons. No. 158,943; Sept. 19.
 Tops, Whip-O-Top Company. No. 157,608; Aug. 8.
 Torches, Plumbers'. P. H. Gundermann. No. 160,202; Oct. 17.
 Torches, Welding. American Welding Co. No. 151,291; Jan. 24.
 Towel and broom holders. C. E. Erickson Co. No. 154,928; May 16.
 Towels. Walton N. Moore Dry Goods Co. No. 154,337; Apr. 11.
 Towels, Bath. N. Kershaw. No. 161,520; Nov. 14.
 Towels, table linen, comforters, etc. California Cotton Mills Company. No. 153,676; Mar. 28.
 Towels, Textile bath. California Cotton Mills Company. No. 153,921; Mar. 28.
 Towlines, Vehicle. Broderick & Bascom Rope Company. No. 159,609; Sept. 26.
 Toy aeroplanes. A. De Spang. No. 154,011; Apr. 4.
 Toy aeroplanes. P. Pierce. No. 157,175; July 25.
 Toy air guns. Goblinto Company. No. 157,507; Aug. 8.
 Toy airplanes. Sail-Me Co. No. 153,843; Mar. 28.
 Toy animals, balloons, etc. H. R. Colwell. No. 151,105; Jan. 24.
 Toy animals, toy balloons, etc. H. R. Colwell. No. 158,415; Sept. 5.
 Toy automobiles. Arcade Manufacturing Company. No. 162,470; Dec. 19.
 Toy automobiles. U. Kawasaki. No. 150,429; Jan. 3.
 Toy balloons. Eagle Rubber Co. No. 160,462; Oct. 24.
 Toy balloons. Oak Rubber Company. Nos. 155,037-8; May 16.
 Toy balloons. Richard D. Bakrow & Son. No. 150,720; Jan. 10.
 Toy balloons. Richard D. Bakrow & Son. No. 151,075; Jan. 24.
 Toy banks. L. I. King. No. 157,997; Aug. 22.
 Toy banks. S. C. Patchett. No. 153,507; Mar. 21.
 Toy bicycle. Smith Manufacturing Co. No. 158,097; Aug. 22.
 Toy blocks. J. Srofe. No. 157,389; Aug. 1.
 Toy building blocks. Chas. F. Lorenzen & Co. No. 154,086; Apr. 4.
 Toy car. J. W. Hess. No. 153,748; Mar. 28.
 Toy carpet sweepers. Bissell Carpet Sweeper Co. No. 150,254; Jan. 3.
 Toy catapults and targets. C. R. Stewart. No. 160,683; Oct. 24.
 Toy chemical sets. American Drug and Chemical Co. No. 152,338; Feb. 28.
 Toy circus. S. J. Twyman. No. 156,451; June 20.
 Toy dog. International Toy Manufacturing Co. No. 150,416; Jan. 3.
 Toy dog and kennel. John Hugo Manufacturing Company. No. 161,169; Nov. 7.
 Toy dogs, Fabric. P. F. Volland Co. No. 161,992; Nov. 28.
 Toy dart or arrow. J. C. Milligan. No. 158,027; Aug. 22.
 Toy drawing instrument. Osborn-Crew Manufacturing Company. No. 161,974; Nov. 28.
 Toy favors. Rainbo Paper Favor Works. No. 161,271; Nov. 7.
 Toy flying machine. B. Carlisle. No. 160,406; Oct. 24.
 Toy, Flying. A. L. Salvo. No. 156,917; July 18.
 Toy graphophones and telephones. Gong Bell Manufacturing Co. No. 152,408; Feb. 28.
 Toy gunboat on wheels, Wooden. W. C. Stanke. No. 157,390; Aug. 1.
 Toy horse reins and athletic wristbands. J. Bloomenfeld. No. 153,978; Apr. 4.
 Toy houses and automobiles, Cardboard. Cellu-Metal Corporation. No. 158,629; Sept. 12.
 Toy made of wood, Animal. L. Raymond. No. 156,037; June 13.
 Toy-making outfits. M. C. Dank. No. 160,340; Oct. 17.
 Toy-making outfits. General Wood Products Co. No. 154,031; Apr. 4.
 Toy, Mechanical. Unique Art Manufacturing Co. No. 151,268; Jan. 24.
 Toy molding sets. C. C. Sholander. No. 153,853; Mar. 28.
 Toy motion-picture machine. Keystone Mfg. Co. No. 153,219; Mar. 14.
 Toy motor trucks, steam shovels, and derricks. Moline Pressed Steel Co. No. 157,545; Aug. 8.
 Toy pistols and rifles. Edwards Manufacturing Co. No. 151,123; Jan. 24.

Alphabetical list of trade-marks—Continued.

- Toy play boxes, Certain. Fairy Gift Company. No. 161,933; Nov. 28.
- Toy stoves, Cooking dishes for. George Borgfeldt & Co. No. 156,846; July 18.
- Toy swings, teeters, gocats, wagons, and velocipedes. Metallic Industries, Inc. No. 153,244; Mar. 14.
- Toy tea and cooking sets. Geo. H. Bowman Company. No. 153,125; Mar. 14.
- Toy telephones. Kelley & Corwin. No. 159,395; Sept. 26.
- Toy tops and seesaw toys. Gibbs Manufacturing Company. No. 150,671; Jan. 3.
- Toy vacuum sweepers and bags. Kaye Manufacturing Company. No. 150,862; Jan. 10.
- Toy vehicle, Child's. B. Brady. No. 157,873; Aug. 22.
- Toy vehicles and parts therefor, Building elements used in the construction of. Wonder Builder Toy Co. No. 153,077; Mar. 7.
- Toy wagon, Child's. Puffer-Hubbard Manufacturing Company. No. 162,581; Dec. 19.
- Toy wagons. Allied Factories Corporation. No. 158,591; Sept. 12.
- Toy, Wheel push. W. M. Shelton. No. 156,053; June 13.
- Toy, Wheeled. Metallic Industries, Inc. Nos. 154,098-9; Apr. 4.
- Toys. Bing Werke vorm. Gebrüder Bing A.-G. Nos. 156,183-4; June 20.
- Toys. Bing Werke vorm. Gebrüder Bing A.-G. No. 162,033; Dec. 5.
- Toys. Kelmet Corporation. No. 156,886; July 18.
- Toys. Montgomery-Winston. No. 151,195; Jan. 24.
- Toys. Oxford-Print. No. 155,041; May 16.
- Toys. Sachem Manufacturing Company. No. 156,916; July 18.
- Toys and playthings. Kämmer & Reinhardt A. G. No. 160,544; Oct. 24.
- Toys, Animal. E. R. H. Taggart. No. 151,252; Jan. 24.
- Toys, Art. Wudart Company. No. 151,009; Jan. 10.
- Toys, Certain. Art Metal Toy Company. No. 158,379; Sept. 6.
- Toys, Certain. Barnard Toy Co. No. 157,863; Aug. 22.
- Toys, Certain. H. Fishelov & Company. No. 150,817; Jan. 10.
- Toys, Certain. Gibbs Manufacturing Company. No. 150,672; Jan. 3.
- Toys, Certain. C. V. Pohlson. No. 153,280; Mar. 14.
- Toys, Certain. Rogers Construction Company. No. 156,743; July 11.
- Toys, Electrical. Meccano Limited. No. 157,149; July 25.
- Toys known as scooters, Wheeled. L. J. Picha. No. 150,930; Jan. 10.
- Toys—namely, doll wagons, teeter toys, etc. C. J. Kern. No. 161,957; Nov. 28.
- Toys, particularly toy figures whittled out of wood, etc. K. W. Vidor. No. 151,991; Feb. 14.
- Toys, Sand and marble operated mechanical. Wolverine Supply and Manufacturing Company. Nos. 160,751-3; Oct. 24.
- Toys, Wheeled riding. Richards Manufacturing Company. No. 152,487; Feb. 28.
- Tracing cloth. Winterbottom Book Cloth Company Limited. No. 157,611; Aug. 8.
- Tractors. Blumberg Motor Manufacturing Co. No. 151,376; Jan. 31.
- Tractors. Central Tractor Company. No. 152,707; Mar. 7.
- Tractors and carburetors. Horace Keane Aeroplanes, Inc. No. 157,118; July 25.
- Tractors and parts thereof. Miller Traction Tread Company. No. 160,243; Oct. 17.
- Tractors, explosion and wind motors, etc. A/S. Landbrugsmaskin-Kompagniet (The Agricultural-Machinery Co.) No. 153,779; Mar. 28.
- Traffic markers, Illuminated. Electrical & Specialty Supply Co. No. 158,431; Sept. 5.
- Traffic signals, Electrically-operated. D-Rex-U Safety Signal Company. No. 158,427; Sept. 5.
- Trailers. Laurence J. Steinke. No. 151,052; Jan. 10.
- Trailers. Utility Trailer Manufacturing Company. No. 160,318; Oct. 17.
- Tramways, etc., Certain aerial. American Steel & Wire Company of New Jersey. No. 155,918; June 13.
- Transfer labels. Goshen Printery. No. 157,510; Aug. 8.
- Transfer sheets for use in the art of printing. F. W. Hyman. No. 154,978; May 16.
- Transits and levels. Young & Sons. Nos. 156,479-80; June 20.
- Transmission or crank-casing parts. Hudson Motor Specialties Company. No. 161,786; Nov. 21.
- Traps, Animal. W. A. Gibbs. No. 150,376; Jan. 3.
- Traps, Insect. Bjorge Bros. No. 159,811; Oct. 10.
- Travelers, Ring and twister. National Ring Traveler Co. No. 162,564; Dec. 19.
- Traveling bags, envelopes of wallet form, brief cases, etc. United States Rubber Company. No. 154,407; Apr. 11.
- Tray for ice-cream cones. J. W. Hoodwin Company. No. 151,332; Jan. 31.
- Trays, crumb, and sink scrapers, Crumb. Filler Brush Company. No. 162,077; Dec. 5.
- Tree wounds, Chemical composition of matter for dressing. Davey Tree Expert Company. No. 150,323; Jan. 3.
- Trees, Material for filling cavities in. A. F. W. Vick. No. 151,622; Feb. 7.
- Trimnings, Woven and braided. Narrow Fabric Co. No. 162,839; Dec. 26.
- Trolley guards. W. K. Page. No. 156,727; July 11.
- Trousers. H. & S. Manufacturing Company. No. 157,105; July 25.
- Trousers. D. M. Oberman Mfg. Co. No. 157,163; July 25.
- Trousers. Washington Woolen Mills. Nos. 154,458-9; Apr. 11.
- Trousers. Washington Woolen Mills. No. 154,730; Apr. 18.
- Trousers and pants. Dadd & Ladd Trouser Company. No. 157,039; July 25.
- Trousers, Double-seated. S. Shapiro Company. No. 156,815; July 11.
- Trousers, Men's and boys'. Wear-Well Pants Company. No. 156,150; June 13.
- Trousers, overcoats, and suits. L. M. Furman. No. 156,799; July 11.
- Trousers, skirt, coat, gown, and suit hangers. Hinchner Manufacturing Company of Indiana. No. 157,099; July 25.
- Truck, Automobile. Old Reliable Motor Truck Corporation. No. 156,543; June 27.
- Truck bodies. L. W. Robinson. No. 157,192; July 25.
- Truck-bodies. Texas Wagon Works, Inc. No. 153,327; Mar. 14.
- Truck bodies, trailers, and trailer bodies. Arcadia Trailer Corporation. No. 159,798; Oct. 10.
- Trucks and constructive parts thereof, Motor. Mason Motor Truck Company. No. 160,575; Oct. 24.
- Trucks designated in the trade as mill cars, Iland. H. D. Priest. No. 160,630; Oct. 24.
- Trucks and radiators, chassis, and bodies of same, Motor. Republic Motor Truck Co. No. 154,135; Apr. 4.
- Trucks and trailers, Automotive. Yale & Towne Mfg. Co. Nos. 154,188-9; Apr. 4.
- Trucks and trailers, Automotive. Yale & Towne Mfg. Co. No. 156,478; June 20.
- Trucks and trailers, Motor. Traylor Engineering & Manufacturing Company. No. 157,223; July 25.
- Trucks, chassis, and bodies, Motor. Standard Motor Truck Company. No. 151,306; Jan. 24.
- Trucks, conversion units for making motor trucks from automobiles, and parts thereof, Motor. Hurdford Company of Chicago. No. 156,529; June 27.
- Trucks, Motor. E. Goldman. No. 160,506; Oct. 24.
- Trucks, Motor. International Motor Company. No. 153,210; Mar. 14.
- Trucks, Motor. Larrabee-Deyo Motor Truck Company. No. 161,890; Nov. 21.
- Trucks, Motor. Power Truck and Tractor Company. No. 151,914; Feb. 14.
- Trucks, Motor. Service Motor Truck Company. No. 152,270; Feb. 21.
- Trucks, Moto.-driven tractor. Equipment Corporation of America. No. 152,761; Mar. 7.
- Trucks, parts and accessories thereof, Automatic Transportation Company. No. 160,080; Oct. 10.
- Trundle beds and infants' coops. H. E. Holbrook Company. No. 157,520; Aug. 8.
- Trunks. Abramovitz & Schwartz. No. 151,309; Jan. 31.
- Trunks. L. Goldsmith & Son. No. 150,382; Jan. 3.
- Trunks. Hartmann Trunk Co. No. 151,328; Jan. 31.
- Trunks. Hartmann Trunk Company. No. 161,950; Nov. 28.
- Trunks. Mendel-Drucker Company. No. 162,308; Dec. 12.
- Trunks. Orenstein Trunk Company. No. 159,467; Sept. 26.
- Trunks. Osterweil Bros., Inc. No. 150,506; Jan. 3.
- Trunks. J. Peterson. No. 150,519; Jan. 3.
- Trunks. The Schmit Trunk Company. No. 152,626; Feb. 28.
- Trunks and certain named leather articles. Barrow, Hepburn & Gale Limited. No. 159,657; Oct. 3.
- Trunks and suitcases. Shwyder Trunk Manufacturing Company. No. 153,530; Mar. 21.
- Trunks, bags, and suitcases, Iland. Abrams Trunk Co. No. 158,588; Sept. 12.
- Trunks, Dress and wardrobe. Rogers Trunk Corporation. No. 159,080; Sept. 19.
- Trunks, hand bags, grips, snit cases, brief cases, etc. R. H. Senbury. No. 151,046; Jan. 10.
- Trunks, hat boxes, and certain bags and cases. Hepburn, Gale and Ross. No. 153,199; Mar. 14.
- Trunks, valises, suitcases, and traveling bags. Steiger & Herman. No. 159,646; Sept. 26.
- Trunks, Wardrobe. Oshkosh Trunk Company. No. 155,209; Sept. 19.
- Trusses. S. H. Higginbotham. No. 162,435; Dec. 12.
- Trusses, abdominal supporters, sanitary suspensories, and sanitary jock straps. L. D. Gandion. No. 161,478; Nov. 14.
- Trusses for hernia, shoulder-braces, arch supporters, and abdominal supporters. L. M. Rehthaler. No. 152,964; Mar. 7.
- Trusses, Hernial. Chesterman-Leeland Co. No. 154,903; May 16.
- Trypanocide. Société Chimique des Usines du Rhone. No. 153,864; Mar. 28.
- Tube-repairing outfit, Inner. Red Seal Rubber Manufacturing Co. No. 153,512; Mar. 21.
- Tubes and rubber goods, Compound for patching. P. A. Porteous. No. 159,212; Sept. 19.

Alphabetical list of trade-marks—Continued.

- Tubes and valves, Vacuum. Radio Corporation of America. Nos. 155,802-5; June 6.
- Tubes, inner. E. W. Bentley. No. 160,760; Oct. 24.
- Tubes made from nonferrous metals and alloys. American Brass Company. No. 156,159; June 20.
- Tubes, tires, and tire casings. Inner. Braender Rubber & Tire Co. No. 159,813; Oct. 10.
- Tubes, tubular metallic pipes, etc., Nonferrous metal and nonferrous metal tapered. Rome Brass & Copper Co. No. 161,902; Nov. 21.
- Tubing, Brass and copper seamless. U. S. Copper Products Corp. No. 154,908; May 16.
- Tubing catchers and other oil-well tools. Automatic. Dunn Manufacturing Company. No. 153,703; Mar. 28.
- Tubing, Metallic. Forbes Tubular Products Corporation. No. 161,469; Nov. 14.
- Tulles, muslins, crapes, etc. "Dynamo" Tulle Importing Company. No. 150,795; Jan. 10.
- Tulles, muslins, crapes, etc. "Dynamo" Tulle Importing Co. No. 152,390; Feb. 28.
- Turpentine. American Trading Company of New Orleans. No. 152,659; Mar. 7.
- Twine. J. E. Barbour Company. No. 151,019; Jan. 10.
- Twine. California Cotton Mills Company. No. 151,319; Jan. 31.
- Twine. Cayuga Linen & Cotton Mills. Nos. 153,134-5; Mar. 14.
- Twine. Ludlow Manufacturing Associates. No. 161,710; Nov. 14.
- Twine. Ludlow Manufacturing Associates. No. 162,439; Dec. 12.
- Twine. Samson Cordage Works. No. 161,613; Nov. 14.
- Twine. Binder. Indianapolis Cordage Company. No. 153,209; Mar. 14.
- Twine, Flax and cotton. J. E. Barbour Co. Nos. 159,606-7; Sept. 26.
- Twine, Roll edge. Alex F. Reid & Sons, Inc. No. 162,983; Dec. 26.
- Type cleaner. Nonspatter. S. S. Stafford, Inc. No. 157,771; Aug. 15.
- Type cleanser. Anthony Nutype Company. No. 158,883; Sept. 19.
- Type, Solution for cleaning. G. B. Odiorne. No. 169,207; Sept. 19.
- Typewriter, carbon-paper and ribbons. Quest Manufacturing Company. No. 151,920; Feb. 14.
- Typewriter cloth used for making typewriter ribbons and multigraph ribbons. Rose & Frank Co. No. 161,606; Nov. 14.
- Typewriter ribbons. Kee Lox Manufacturing Company. No. 154,198; Apr. 4.
- Typewriter ribbons and carbon paper. Chas. A. Foyer & Company. No. 151,479; Feb. 7.
- Typewriter ribbons and carbon paper. Holbrook & Gibson. No. 155,243; May 23.
- Typewriter ribbons and carbon paper. U. S. Manifold Company. No. 155,546; May 30.
- Typewriter ribbons, carbon paper, and certain inks. Waters & Waters Mfg. Co. No. 156,824; July 11.
- Typewriter ribbons, Cloth for making. Rose & Frank Co. Nos. 161,602-5; Nov. 14.
- Typewriters, typewriter repair parts, etc., Rebuilt. A. H. Post. No. 157,179; July 25.
- Typewriting, instruction books and charts for teaching. Corona Typewriter Company. No. 150,782; Jan. 10.
- Typewriting machines. Wyckoff, Seamans and Benedict. No. 21,819; renewed Oct. 4, 1922.
- Typewriting machines and parts thereof. Robert Fabig Gesellschaft mit beschränkter Haftung Maschinen- u. Apparate-Fabrik. No. 160,645; Oct. 24.
- Typewriting machines and parts thereof. L. C. Smith & Bros. Typewriter Co. No. 154,844; May 9.
- Usters and overcoats, Men's. Rosenberg Bros. & Co. No. 155,809; June 6.
- Umbrella and parasol ferrules and ties. Wangee Umbrella Co. No. 156,937; July 18.
- Umbrella and parasol ribs. S. W. Evans & Son. No. 162,503; Dec. 19.
- Umbrella ribs and stretchers of steel or iron. Wright Bindley & Gell Limited. No. 160,756; Oct. 24.
- Umbrellas. Advertising Distributors Ass'n. No. 154,468; Apr. 18.
- Umbrellas and parasols. Siegel, Rothschild & Co. No. 161,299; Nov. 7.
- Umbrellas and parasols. C. Stein. No. 161,309; Nov. 7.
- Umbrellas and parasols. W. N. Stevenson & Co. No. 157,773; Aug. 15.
- Umbrellas, umbrella ribs, stretchers, and frames of metal. Samuel Fox & Company. No. 20,632; renewed Jan. 26, 1922.
- Undergarments. P. H. Hanes Knitting Company. No. 155,702; June 6.
- Undergarments and sanitary pantalettes, Women's. I. B. Kleibert Rubber Company. No. 157,120; July 25.
- Undergarments, Ladies'. Bu-Ti-Maid Petticoat & Pettipants Co. No. 150,271; Jan. 3.
- Undergarments, negligees, and corsets, Ladies' silk. Samek & Lobel. No. 161,285; Nov. 7.
- Undergarments, nightgowns, envelope chemise, etc., Women's. D. E. Sicher & Company. No. 154,694; Apr. 18.
- Undergarments, One-piece women's textile fabric. C. L. Motta. No. 151,883; Feb. 14.
- Undershirts, drawers, and union suits. Troy Underwear Co. No. 161,322; Nov. 7.
- Undershirts, drawers, union suits, waists, shirts, pyjamas, and night robes. I. Panitz. No. 156,906; July 18.
- Undershirts, hosiery, drawers, and union suits. H. Wolf & Sons. No. 156,563; June 27.
- Underskirts. A. R. Starkweather. No. 156,146; June 13.
- Underskirts and petticoats. Samuel N. Magill Inc. No. 161,542; Nov. 14.
- Underwaists, body waists, corsetwaists, corsets, etc. Lay & Way Co. No. 159,015; Sept. 19.
- Underwear. B. V. D. Company. No. 159,171; Sept. 19.
- Underwear. Cotton States Hosiery Mills. No. 157,034; July 25.
- Underwear. Philipsborn's, Inc. No. 161,260; Nov. 7.
- Underwear. Sears, Roebuck and Co. No. 153,619; Mar. 21.
- Underwear, Athletic. John C. Dettra & Company. No. 154,527; Apr. 18.
- Underwear, bathing suits. American Wholesale Corporation (Baltimore Bargain House). No. 154,477; Apr. 18.
- Underwear, Children's and misses' muslin. Welmayde Muslin U'Wear Co. No. 159,239; Sept. 19.
- Underwear, children's dresses, and women's shirtwaists, Women's and children's textile fabric. Birkenfeld, Strauss & Co. No. 154,432; Apr. 11.
- Underwear, children's dresses, and women's shirtwaists or blouses, Women's and children's. Birkenfeld, Strauss & Co. No. 155,141; May 16.
- Underwear, children's dresses, Women's and children's. Birkenfeld, Strauss & Co. No. 157,004; July 25.
- Underwear for men, women, and children and knit corset covers for women. Pittsburgh Dry Goods Company. No. 157,561; Aug. 8.
- Underwear for women. Scheinzeit-Goldman Co. No. 159,085; Sept. 19.
- Underwear for women and misses, Woven silk. Cupid Underwear Company. No. 151,726; Feb. 14.
- Underwear, Knit. Utica Knitting Company. No. 154,723; Apr. 18.
- Underwear, knit or woven, and hosiery. Munsingwear Corporation. Nos. 162,835-8; Dec. 26.
- Underwear, Ladies'. Ivy Corset Company. No. 161,173; Nov. 7.
- Underwear, Ladies'. Parsons & Baker Co. No. 160,266; Oct. 17.
- Underwear, Ladies' muslin and silk. Victoria Undergarment Co. No. 159,142; Sept. 19.
- Underwear, Ladies' silk. Rosenberg & Chatillon. No. 154,674; Apr. 18.
- Underwear, Men's knit. Atlas Underwear Co. No. 154,749; Apr. 18.
- Underwear, Men's woven athletic. Carson Pirie Scott & Co. No. 159,173; Sept. 19.
- Underwear of woven and knitted fabrics. B. V. D. Company. No. 161,087; Nov. 7.
- Underwear, shirts, etc. M. Rothkopf. No. 154,677; Apr. 18.
- Underwear, shirtwaists, infants' underwear and dresses, Women's and girls'. Marshall Field & Company. No. 156,891; July 18.
- Underwear, Silk, satin, crêpe de chine, and textile-fabric. Joan Underwear Corporation. No. 157,990; Aug. 22.
- Underwear, Textile-fabric. H. H. Hess. No. 150,842; Jan. 10.
- Underwear, Textile-fabric. H. H. Hess. No. 161,164; Nov. 7.
- Underwear, Women's silk and muslin. Brown & Silverman. No. 161,084; Nov. 7.
- Unguent. E. F. Houghton & Co. No. 22,443; renewed Feb. 7, 1923.
- Uniforms and hats, men's suits, hats, etc., Naval and army. American Naval Uniform Co. No. 156,985; July 25.
- Uniforms, Naval. Brown & Godek. No. 154,504; Apr. 18.
- Union suits. Oppenheim, Obendorf & Co. No. 154,205; Apr. 4.
- Union suits and knitted vests, Ladies'. Schneider, Battinus & Simon. No. 160,807; Oct. 24.
- Union suits and pyjamas, Children's textile-fabric. Thanbouser & Weiler. No. 151,972; Feb. 14.
- Union suits, Boys'. Catersville Mills Inc. No. 151,095; Jan. 24.
- Union suits, combination suits, undershirts, and under-drawers, Men's, women's, and children's. Superior Underwear Company. No. 158,830; Sept. 12.
- Union suits, Men's athletic nainsook. Marvel Underwear Co. No. 154,625; Apr. 18.
- Union suits, vests, and drawers. Vassar Swiss Underwear Co. No. 151,990; Feb. 14.
- Union suits (waist), union suits, undershirts, and drawers. Nazareth Waist Co. No. 158,040; Aug. 22.
- Upholstery goods, draperies, and furniture coverings. Orinoka Mills. No. 162,849; Dec. 26.
- Urn bags or woven tea containers and connected spout hoods. G. H. Stockman, Jr. No. 151,965; Feb. 14.
- Utensils, Aluminum Cooking. Jones Store Co. No. 161,787; Nov. 21.
- Vaccines and serums. Purity Biological Laboratories. No. 156,397; June 20.
- Vacuum cleaners, Electric. Birtman Electric Company. No. 158,888; Sept. 5.
- Vacuum cleaners, Nonelectric. American Brush Company. No. 155,917; June 13.
- Vacuum tubes. General Electric Company. No. 153,174; Mar. 14.

- Vaginal suppositories and a general tonic. Colton & Collins, Inc. No. 157,909; Aug. 22.
- Valve handles or wheels. Jenkins Manufacturing Company. No. 157,529; Aug. 8.
- Valve lifters. Walsh & Mead. No. 162,932; Dec. 26.
- Valves and pipe fittings. Pittsburgh Reinforced Brazing & Machine Company. No. 159,477; Sept. 26.
- Valves and steam packing. Jenkins Bros. No. 22,835; renewed Jan. 10, 1922.
- Valves and unions, valve boxes, fire hydrants, etc. Darling Valve & Manufacturing Company. No. 154,914; May 16.
- Valves, balls, seats, and drops for oil-well. Norris Bros. Inc. No. 160,607; Oct. 24.
- Valves, cast-iron bends, and drum traps, etc. Oil-regulated flush. Stringer Bros. Co. No. 162,125; Dec. 5.
- Valves, cocks, bibs, and pipe connectors. Cleveland Brass Manufacturing Co. No. 150,775; Jan. 10.
- Valves, cocks, pipe fittings, etc., Certain. Crane Company. No. 155,886; June 6.
- Valves, Combined pressure and vacuum. Tiros Valve Syndicate. No. 150,987; Jan. 10.
- Valves, kitchen utensils, etc., Certain. Hadfields Limited. No. 153,741; Mar. 28.
- Valves, Metallic. Eckenroth Valve and Manufacturing Co. No. 159,844; Sept. 26.
- Valves, Oil. Ackswell Mfg. & Sales Co. No. 159,247; Sept. 26.
- Valves, Relief. Neptune Meter Company. No. 157,549; Aug. 8.
- Valves, Relief and ball float. Nash Engineering Co. No. 160,105; Oct. 10.
- Valves, Safety. Hayes Manufacturing Co. No. 152,599; Feb. 28.
- Valves, siphons, cocks, etc., Certain. C. Schneider. No. 152,496; Feb. 28.
- Valves, steam separators, and pipe fittings. National Valve & Manufacturing Company. No. 156,365; June 20.
- Valves, Steam-trap air. T. S. Todd & Co. No. 156,931; July 18.
- Vanishing cream, almond and lemon cream, brilliantine, mud massage, etc. Fink & Rock, Inc. No. 160,862; Oct. 31.
- Vanity cases. A. B. Flagg. No. 158,667; Sept. 12.
- Vanilla, Artificial. C. J. Steward. No. 154,709; Apr. 18.
- Vanilla flavor and extract, lemon extracts. G. U. Lipschulch. No. 151,849; Feb. 14.
- Vanilla flavoring compounds. Muller-Houseman Company. No. 157,156; July 25.
- Vanillas, Natural and artificial concentrated. M. A. Shepardson. No. 162,592; Dec. 19.
- Vans. Traveling merchandise. H. A. Wieman. No. 160,074; Oct. 10.
- Vaporizers for supplying water vapor to the cylinders of internal-combustion engines. Automatic Steam Carburetor Company. No. 154,872; May 16.
- Varnish. Mayer & Loewenstein. No. 21,949; renewed Nov. 8, 1922.
- Varnish. McDougall-Butler Co. No. 161,960; Nov. 28.
- Varnish. Benjamin Moore & Co. No. 152,889; Mar. 7.
- Varnish. O'Brien Varnish Company. No. 153,812; Mar. 28.
- Varnish. Thresher Varnish Company. No. 162,458; Dec. 12.
- Varnish. William Zinsser & Company. Nos. 158,570-1; Sept. 5.
- Varnish and stains. William Zinsser & Company. No. 158,873; Sept. 12.
- Varnish coating, Liquid floor. Pittsburgh Plate Glass Company. No. 158,773; Sept. 12.
- Varnish, driers, lacquers, etc., Certain. Standard Varnish Works. No. 151,361; Jan. 31.
- Varnish. Flat. Lowe Brothers Company. No. 150,684; Jan. 3.
- Varnish healer and restorer. Pearson Piano Company. No. 161,583; Nov. 14.
- Varnish stain. Benjamin Moore & Co. No. 159,444; Sept. 26.
- Varnishes and enameled surfaces, furniture, etc., Polish for. G. F. Krueger & Co. No. 151,155; Jan. 24.
- Varnishes. Berry Brothers. No. 158,386; Sept. 5.
- Varnishes. Berry Brothers. No. 158,612; Sept. 12.
- Varnishes. Eagle Paint & Varnish Co. No. 153,709; Mar. 28.
- Varnishes. Grand Rapids Varnish Corporation. No. 151,327; Jan. 31.
- Varnishes. Lowe Brothers Company. No. 154,316; Apr. 11.
- Varnishes. McCloskey Varnish Co. No. 158,740; Sept. 12.
- Varnishes. George L. Wood & Son. No. 20,919; renewed Mar. 29, 1922.
- Varnishes. Certain. Thresher Varnish Company. No. 162,457; Dec. 12.
- Varnishes, finishes, lacquers, etc. Morgan Company. Nos. 159,042-3; Sept. 19.
- Varnishes, lacquers, and paint oils. Detroit Universal Solvent Company. No. 161,357; Nov. 7.
- Varnishes, paint pigments, etc. C. A. Woolsey Paint & Color Company. No. 151,369; Jan. 31.
- Varnishes, varnish stains, paint enamels, and paints. Valentine & Company. No. 158,845; Sept. 12.
- Vault lining plates of composite metal. Bank. American Abrasive Metals Company. No. 160,360; Oct. 24.
- Vaults, Burial. W. J. Gorman. No. 162,434; Dec. 12.
- Vegetable slicers and choppers. E. S. Anderson Company. No. 156,614; July 11.
- Vegetables. Deschappelles, Collins & Co. No. 162,228; Dec. 12.
- Vegetables. I. H. New. No. 151,886; Feb. 14.
- Vegetables, Fresh. Carlsbad Vegetable Growers Association. No. 159,306; Sept. 26.
- Vegetables, Fresh. T. H. McLaughlin. No. 162,299; Dec. 12.
- Vehicle accessories, Motor-. Williams Bros. Aircraft Corporation. No. 152,645; Feb. 28.
- Vehicle axles and gear-casing constructions therefor. Motor-. Torbensen Axle Company. No. 151,975; Feb. 14.
- Vehicle, Child's self-propelled. Keystone Lantern Co. No. 152,845; Mar. 7.
- Vehicle parts and accessories. R. M. Lovejoy. No. 152,611; Feb. 28.
- Vehicle springs. Detroit Steel Products Company. No. 152,059; Feb. 14.
- Vehicle springs. Detroit Steel Products Company. No. 153,924; Mar. 28.
- Vehicle springs. T. W. C. Hartmann. No. 151,795; Feb. 14.
- Vehicle springs, shock absorbers, and recoil checks. Steel Wings Company. No. 153,010; Mar. 7.
- Vehicle trailers, bodies for automobiles and motor trucks. Motor-. L. M. Cotton. No. 155,883; June 6.
- Vehicle trailers, bodies for automobiles and motor trucks. Motor-. L. M. Cotton. No. 155,885; June 6.
- Vehicle wheel and tire chains. Daubenspeck Chain Company. No. 156,511; June 27.
- Vehicle wheel antislid chains and attachments. Weaver Manufacturing Company. No. 156,562; June 27.
- Vehicle wheels, Spokes and nipples for. Torrington Company. No. 160,693; Oct. 24.
- Vehicle-window frames. Stewart Manufacturing Corporation. No. 151,957; Feb. 14.
- Vehicles and parts thereof, Motor. Dodge Brothers. No. 151,027; Jan. 10.
- Vehicles and ships' propellers, Certain horse-drawn and motor. Hadfields, Limited. No. 151,789; Feb. 14.
- Vehicles, Certain named. Phillips, Doup & Co. No. 154,129; Apr. 4.
- Vehicles, Children's. Sherwood Bros. Mfg. Co. No. 161,721; Nov. 14.
- Vehicles, Commercial motor. John I. Thornycroft & Co. No. 157,220; July 25.
- Vehicles, Electric motors for. Baker R. & L. Company. No. 151,373; Jan. 31.
- Vehicles, Electric signal horns for motor. North East Electric Company. No. 152,916; Mar. 7.
- Vehicles, Shoveling board for. White-Lininger Company. No. 161,911; Nov. 21.
- Vehicles, Springs for automotive. E. A. Lewenthal. No. 160,566; Oct. 24.
- Vehicles, Tools for handling disabled. Kimmerle Bros. No. 150,864; Jan. 10.
- Vehicles, Trailers for motor. D. A. Newcomer Company. No. 160,442; Oct. 24.
- Vehicles, Transmissions, differentials, clutches, control levers, and gears for automotive. Warner Gear Company. No. 155,113; May 16.
- Vehicles, Trucks and truck bodies for driven or drawn. Rolling Red Stores Company. No. 160,003; Oct. 10.
- Veicular apparatus having means adapted to be lowered into sewer catch basins. Otterson Auto-Eductor Co. No. 161,578; Nov. 14.
- Veiling by the piece. Edw. Malley Co. No. 150,461; Jan. 3.
- Veiling, silk nets, elastic veils, Mesh. Gladstein, Stark & Friedberg. No. 154,279; Apr. 11.
- Veilings, chiffon cloth, etc. A. Lassner. Nos. 154,309-10; Apr. 11.
- Veils and veilings and nettings in the piece. Van Raalte Company. No. 155,549; May 30.
- Veils and veilings in the piece. Rice-Stix Dry Goods Company. No. 153,835; Mar. 28.
- Veils and veiling piece goods. Dorros Bros. No. 150,792; Jan. 10.
- Veils, hair nets, silk, cotton, and woolen piece goods, and lace curtains. V. Vivaudou, Inc. No. 158,134; Aug. 22.
- Velocipedes. Sheffield Mfg. Co. No. 160,664; Oct. 24.
- Velocipedes. O. W. Siebert. No. 158,539; Sept. 5.
- Velocipedes and go-carts for children. International Toy Company. No. 160,538; Oct. 24.
- Velocipedes, Children's. Central Wheel Company. No. 157,475; Aug. 8.
- Velocipedes, tricycles, bicycles and other toy vehicles. Steinfeld Bros. No. 150,693; Jan. 3.
- Velvet in piece goods. H. Katz. No. 154,306; Apr. 11.
- Velvets. Bennett and Aspden Company. No. 156,181; June 20.
- Velvets in the piece. Bennett and Aspden Company. No. 152,682; Mar. 7.
- Vending machines. Barr Company. No. 156,996; July 25.
- Vending machines. International Vending Machines Ltd. No. 159,709; Oct. 3.
- Vending machines provided with means for keeping contents hot. C. L. Paine. No. 150,923; Jan. 10.
- Veneer for linings for closets, chests, etc., Sheets and strips of. E. L. Bruce Company. No. 160,403; Oct. 24.

Alphabetical list of trade-marks—Continued.

- Ventilators. W. F. Hirschman, Inc. No. 154,053; Apr. 4.
 Ventilators and certain drying apparatus. Gebrüder Böhler. No. 153,130; Mar. 14.
 Vermifuge. N. and H. Company. No. 158,507; Sept. 5.
 Vermifuge and stock conditioner. S. R. Feil. No. 161,154; Nov. 7.
 Vermin exterminating compound. Jacob Allison. No. 153,365; Mar. 14.
 Veterinary medicine, Certain. D. S. Cook. No. 155,316; May 23.
 Veterinary ointment. Lyndon Chemical Company. No. 158,254; Aug. 29.
 Veterinary preparation. Bobwhite Chemical Corporation. No. 153,370; Mar. 14.
 Veterinary preparations, Certain. W. G. Asquith. No. 157,303; Aug. 1.
 Veterinary preparations, Certain. W. H. Michand. No. 151,548; Feb. 7.
 Vibrators and shower sprays, and electric violet-ray appliances, Electric massage. Fitzgerald Mfg. Company. No. 158,953; Sept. 19.
 Vibrators, Electric. Moore Electric Corporation. No. 161,373; Nov. 7.
 Vinegar. Idaho Vinegar & Cider Co. No. 155,894; June 6.
 Vinegar. Povel Corporation. No. 156,734; July 11.
 Vinegar. Repp Orchard Products Co. No. 162,875; Dec. 26.
 Vinegar. Springdale Vinegar Company. No. 162,123; Dec. 5.
 Vinegar, Cider. Duffy, Mountfort & Greene Cider Company. No. 21,944; renewed Nov. 8, 1922.
 Vinegar, Pure apple-cider. Springdale Vinegar Company. No. 162,596; Dec. 19.
 Vinegars, salad dressing, honey, etc. Trinity Grocery Co. No. 156,767; July 11.
 Violin strings. C. Bruno & Son. No. 153,127; Mar. 14.
 Violin strings. C. Fischer. No. 154,935; May 16.
 Violins and parts thereof. Jackson-Guidan Violin Company. No. 151,149; Jan. 24.
 Violins and similar musical instruments, Strings for. William Voit Co. No. 156,787; July 11.
 Violins, guitars, etc., Strings for. L. C. Schermerhorn. No. 162,361; Dec. 12.
 Viscose. Midwest Steel & Supply Company. Nos. 155,486-7; May 30.
 Vitamine compound. G. Best. No. 159,278; Sept. 26.
 Vitamine preparation for use as a general tonic. Harrell Drug Co. No. 157,974; Aug. 22.
 Vitamines for use as a general tonic. Vitamon Corporation. No. 155,552; May 30.
 Vitreous or porcelain enamel to be baked on metal ware. Chicago Vitreous Enamel Product Company. No. 150,292; Jan. 3.
 Voile cloths, Cotton. James Orr & Sons, Limited. No. 157,731; Aug. 15.
 Volles in the piece, Cotton. Henry Glass & Co. No. 152,789; Mar. 7.
 Wafers, Sugar. Johnson Educator Food Co. Nos. 162,787-9; Dec. 26.
 Wagons, Children's coaster. Sheboygan Coaster & Wagon Works. No. 160,295; Oct. 17.
 Wagons, Children's express and coaster. Marshall-Wells Company. No. 152,457; Feb. 28.
 Wagons, Coaster. Sheffield Mfg. Co. Nos. 159,517-19; Sept. 26.
 Wagons, Coaster. Sheffield Mfg. Co. No. 159,521; Sept. 26.
 Wagons, coasters, and scooters, Children's convertible. C. Huseman. No. 155,452; May 30.
 Wagons, Dump. Stroud & Co. Nos. 156,494-5; June 20.
 Wagons for conveying dishes from the dining table to the kitchen. K. H. Scott. No. 161,027; Oct. 31.
 Wagons, Play. H. C. White Company. No. 153,353; Mar. 14.
 Wagons, Play. H. C. White Company. No. 155,116; May 16.
 Waists. Deutz & Ortenberg, Inc. No. 155,318; May 23.
 Waists, Tailored. Nelscraft, Inc. No. 160,249; Oct. 17.
 Waists, Women's and misses'. Phillipsborn's Inc. No. 154,658; Apr. 18.
 Wall board, blinds, doors, windows, frames for doors and windows, etc. North American Wood Products Corporation. No. 159,727; Oct. 3.
 Wall board plaster. United States Gypsum Company. No. 153,038; Mar. 7.
 Wall board, plaster board, and gypsum plaster. Gipsolite Company. No. 160,501; Oct. 24.
 Wall-cases, showcases, and interchangeable shelving, Store. Interchangeable Wall Case Co. No. 155,723; June 6.
 Wall finish, Cold-water. Benjamin Moore & Co. No. 161,565; Nov. 14.
 Walnut meats and peanuts in their natural state. E. W. Frazar. No. 160,491; Oct. 24.
 Walnuts in their natural state. C. C. Collins Company. No. 156,212; June 20.
 Wardrobes and bedsteads, Bed. I. L. Hadley. No. 158,972; Sept. 19.
 Wardrobes and office furniture. Shaw-Walker Co., The. No. 155,179; May 16.
 Warming apparatus, Electrical. Twinplex Sales Co. No. 155,103; May 16.
 Warning devices, Mechanically-operated. Compagnie Industrielle et Commerciale du Cycle et de l'Automobile. No. 161,442; Nov. 14.
 Washboards. M. C. Frank. No. 158,220; Aug. 29.
 Washboards. National Washboard Company. Nos. 152,894-906; Mar. 7.
 Washboards. National Washboard Company. No. 155,266; May 23.
 Washboards W. C. Palmer. No. 158,275; Aug. 29.
 Washboards. R. F. Starr. No. 158,823; Sept. 12.
 Washboilers. W. B. Bertels & Son Co. No. 152,686; Mar. 7.
 Washboilers. Sargoy Bros. No. 158,528; Sept. 5.
 Washboilers, Household. Atlas Tinware Company. No. 156,616; July 11.
 Wash trays. B. Stock. No. 158,331; Aug. 29.
 Washtubs and washboilers. Atlantic Stamping Company. No. 152,674; Mar. 7.
 Washers, Dial. Hammel, Riglander & Co. No. 152,810; Mar. 7.
 Washers, Lock. Bull Dog Lock Washer Co. No. 157,469; Aug. 8.
 Washing and cleaning solutions, Receptacles for. Knapp Manufacturing Company. No. 162,286; Dec. 12.
 Washing compound. Barrington Manufacturing Corporation. No. 157,341; Aug. 15.
 Washing compound. Frankford Davies and Company. No. 162,222; Dec. 12.
 Washing compound. J. J. Downey. No. 151,740; Feb. 14.
 Washing compound. A. J. Stone. No. 162,385; Dec. 12.
 Washing compound. Trinity Chemical Corporation. No. 159,131; Sept. 19.
 Washing compound. United Chemical Products Company. No. 157,784; Aug. 15.
 Washing compound. Wilson-Imperial Company. No. 155,564; May 30.
 Washing compound, Ammonia. Pacific Chemical Company. No. 153,272; Mar. 14.
 Washing compounds. S. Bernstein. No. 157,643; Aug. 15.
 Washing fluid. R. Kravitz. No. 162,288; Dec. 12.
 Washing machines. Conlon Electric Washer Co. No. 162,217; Dec. 12.
 Washing machines. Grinnell Washing Machine Company. No. 158,226; Aug. 29.
 Washing machines and clothes wringers, Laundry. The Coffield Washer Co. No. 156,648; July 11.
 Washing machines and parts thereof, Clothes. Air-Way Electric Appliance Corporation. No. 161,391; Nov. 14.
 Washing machines and wringers, Laundry. Clark, Cadle, Harmon Corp. No. 156,644; July 11.
 Washing machines, Electrically-operated textile-fabric. Cadillac Washing Machine Co. No. 158,396; Sept. 5.
 Washing machines for laundry purposes. Boss Washing Machine Company. No. 158,186; Aug. 29.
 Washing machines for laundry purposes. Meadows Mfg. Co. No. 162,304; Dec. 12.
 Washing machines, Laundry. Almetal Manufacturing Company. No. 152,559; Feb. 28.
 Washing machines, Laundry. Almetal Manufacturing Company. No. 155,363; May 30.
 Washing machines, Laundry. Bell Washer and Wringer Company. No. 155,614; June 6.
 Washing machines, Laundry. Detroit Washing Machine Corporation. No. 156,656; July 11.
 Washing machines, Laundry. Hogan-Spencer-Whitley Company. No. 151,507; Feb. 7.
 Washing machines, Laundry. Landers, Frary & Clark. No. 156,697; July 11.
 Washing machines, Laundry. H. C. Roberts Electric Supply Company. No. 155,276; May 23.
 Washing machines, Laundry. Sunny Line Appliances, Inc. No. 156,765; July 11.
 Washing machines, Metal clothes containers for. Hurley Machine Company. No. 158,232; Aug. 29.
 Washing machines, wringers and mangles, Clothes. John Dunn, Son & Co. No. 157,326; Aug. 1.
 Washing powder. A. E. Kihn. No. 159,006; Sept. 19.
 Washing powder. Los Angeles Soap Co. No. 151,855; Feb. 14.
 Washing powder. L. Mitchell & Co. No. 153,801; Mar. 28.
 Washing powder. Poland Soap Works. No. 162,339; Dec. 12.
 Washing powder. H. B. Rhymer. No. 159,070; Sept. 19.
 Washing powder. Rolly Chemical Co. No. 157,755; Aug. 15.
 Wash suits and girls' dresses, Boys'. Kiddle Garment Co. No. 152,442; Feb. 28.
 Wastes, Bales of graded textile. New England Waste Company. No. 151,199; Jan. 24.
 Watch blanks. Fabrique d'Horlogerie de Fontainemelon S. A. Nos. 157,058-9; July 25.
 Watch bracelets. Hipp, Didisheim Co. No. 155,445; May 30.
 Watchcases. Crescent Watch-Case Company. Nos. 22,382-3; renewed Jan. 31, 1923.
 Watchcases. J. Macher. No. 22,667; renewed Mar. 21, 1923.
 Watchcases and watchcase guards. North American Watch Company. No. 158,511; Sept. 5.
 Watchcases and watches. D. Bernstein. No. 161,410; Nov. 14.
 Watch chains. Hickok Manufacturing Company. No. 162,266; Dec. 12.
 Watch movements. Illinois Watch Case Company. No. 152,832; Mar. 7.

- Watch movements. Illinois Watch Case Company. No. 159,190; Sept. 19.
- Watch parts. Sussfeld, Lorsch & Schimmel. No. 161,315; Nov. 7.
- Watch springs. L. H. Keller & Co. No. 152,603; Feb. 28.
- Watch springs. Les Fils De Rubin-Maire. No. 152,359; Mar. 7.
- Watches. W. J. Bernard. No. 155,204; May 23.
- Watches. J. Daving. No. 152,739; Mar. 7.
- Watches. Elgin National Watch Company. No. 21,464; renewed July 19, 1922.
- Watches. P. Forbriger. No. 158,438; Sept. 5.
- Watches. A. I. Goodman. No. 160,095; Oct. 10.
- Watches. S. & N. Katz. No. 162,281; Dec. 12.
- Watches. I. Press & Sons. No. 158,519; Sept. 5.
- Watches. Adolphe Schwob, Inc. No. 151,595; Feb. 7.
- Watches. Stein & Ellbogen Company. No. 157,588; Aug. 8.
- Watches. Stein & Ellbogen Company. No. 158,547; Sept. 5.
- Watches. M. A. Zolla. No. 158,572; Sept. 5.
- Watches and clocks. Cartier, Inc. No. 151,443; Feb. 7.
- Watches and clocks. Robt. H. Ingersoll & Bro. Nos. 158,461-2; Sept. 5.
- Watches and clocks. J. F. Mansfield. No. 161,546; Nov. 14.
- Watches and clocks. L. F. Sackerman. No. 151,589; Feb. 7.
- Watches and jewelry. Hayden W. Wheeler & Co. No. 21,725; renewed Sept. 6, 1922.
- Watches and parts of watches. Fabrique De Montres Selva S. A. No. 151,751; Feb. 14.
- Watches and parts of watches. Kilchenmann Frères. No. 158,221. Aug. 29.
- Watches and parts of watches. Vittori & Co. Dolmy Watch Co. No. 151,993; Feb. 14.
- Watches and watch movements. J. Barfield. No. 151,669; Feb. 14.
- Watches and watch movements. Elgin National Watch Company. No. 155,225; May 23.
- Watches and watch movements. M. A. Holland. No. 162,269; Dec. 12.
- Watches and watch movements. Katz & Ogush, Inc. No. 158,470; Sept. 5.
- Watches and watch movements, dials, and cases. Adolphe Schwob, Inc. No. 156,747; July 11.
- Watches and watch movements, watchcases, and parts thereof. R. A. Gsell. No. 161,493; Nov. 14.
- Watches, clocks, and parts thereof. Meyer & Stüdeli, Societe Anonyme. No. 151,547; Feb. 7.
- Watches, clocks, and parts thereof. Meyer & Stüdeli, Societe Anonyme. No. 158,262; Aug. 29.
- Watches, dials, movements and parts thereof and watchcases. S. R. Hoffman. No. 156,595; July 4.
- Watches, watchcases and movements. S. Gutter. No. 150,832; Jan. 10.
- Watches, watchcases, and watch movements. B. Gutter & Sons. Nos. 151,496-8; Feb. 7.
- Watches, watchcases, watch movements, and clocks. I. Ollendorff Co. No. 155,346; May 23.
- Watches, watch movements, dials, and cases. Adolphe Schwob, Inc. No. 145,650; Jan. 10.
- Watches, watch movements, dials, and cases. Adolphe Schwob, Inc. No. 152,988; Mar. 7.
- Watches, watch movements, dials, and cases. Adolphe Schwob, Inc. No. 155,283; May 23.
- Watches, watch movements, watchcases. M. A. Mead & Company. No. 151,542; Feb. 7.
- Watches, watch movements, watchcases, and parts thereof. American-Swiss Watch Co. No. 158,377; Sept. 5.
- Water and beverages made of water, Mineral. White Rock Mineral Springs Co. No. 152,639; Feb. 28.
- Water and beverages made of water, Mineral. White Rock Mineral Springs Company. No. 155,912; June 6.
- Water and certain soft drinks, Mineral spring, and lithiated. Cleveland-Sandusky Company. No. 162,006; Nov. 28.
- Water and ginger ale, Carbonated and natural mineral. Bethesda Mineral Spring Company. No. 22,405; renewed Jan. 31, 1923.
- Water bottles and bags, fountain syringes, etc. Miller Rubber Company. No. 152,885; Mar. 7.
- Water circulators. F. S. Thomas. No. 150,695; Jan. 3.
- Water-closet bowls. Wolff Manufacturing Co. No. 155,913; June 6.
- Water. Concentrated natural mineral. Crazy Well Water Company of Mineral Wells. No. 150,314; Jan. 13.
- Water equalizers, Hot. H. E. Heim. No. 159,371; Sept. 26.
- Water, ginger ale, root beer, sarsaparilla, Drinking. Hinckley & Schmitt. No. 151,504; Feb. 7.
- Water heaters, Gas. American Heater Corporation. No. 160,122; Oct. 17.
- Water heaters, Gas. Bastian-Morley Co. No. 151,079; Jan. 24.
- Water heaters, Gas. Bastian-Morley Co. No. 162,673; Dec. 26.
- Water, Mineral. Isle of Wight Water Company. No. 156,883; July 18.
- Water, Mineral. Rathjen-Eggers Company. No. 155,058; May 16.
- Water, Mineral. A. Velo y Filgueira. No. 156,164; June 20.
- Water, Mineral. A. Velo y Filgueira. No. 159,875; Oct. 10.
- Water, Mineral and carbonated. C. T. Hagan. No. 162,082; Dec. 5.
- Water, Mineral-spring. H. S. Jenner. No. 158,994; Sept. 19.
- Water, Mineral-spring. Mineral Rock Springs, Inc. No. 161,967; Nov. 28.
- Water, Natural alkaline, saline, carbonated. Spiceland Sanitarium. No. 150,976; Jan. 10.
- Water, Natural Mineral. Medicinal Springs Corporation. No. 153,242; Mar. 14.
- Water, Natural spring. Shell Rock Spring Water Co. No. 156,923; July 18.
- Water, Natural spring. White Rock Mineral Springs Company. No. 152,637; Feb. 28.
- Water, nonalcoholic beverages, and sirups for making same, Distilled. H-2-O Still Company. No. 157,090; July 25.
- Water or other liquids, Apparatus for treating. Anti-corrosion Engineering Co. No. 150,715; Jan. 10.
- Waterproof aprons. Rubberized Sheetting & Specialty Co. No. 158,795; Sept. 12.
- Waterproof bloomers and baby pants. Brooklyn Shield & Rubber Company. No. 160,763; Oct. 24.
- Waterproof cement. W. J. McKenzie. No. 161,961; Nov. 28.
- Waterproof cement for building. The Staveley Coal & Iron Co. Limited. No. 152,514; Feb. 28.
- Waterproof cloth. Haviside Company. No. 159,895; Oct. 10.
- Waterproof cloth. N. Levin. No. 162,809; Dec. 26.
- Waterproof cloth in the piece. Pantasote Leather Company. No. 151,898; Feb. 14.
- Waterproof clothing. Alligator Oil Clothing Company. No. 151,065; Jan. 24.
- Waterproof clothing. Alligator Oil Clothing Company. No. 156,981; July 25.
- Waterproof clothing. United States Rubber Company. No. 154,720; Apr. 18.
- Waterproof coats. A. J. Tower Company. No. 154,716; Apr. 18.
- Waterproof collars and cuffs. Arlington Collar and Cuff Co. No. 20,850; renewed Mar. 15, 1922.
- Waterproof covers for wagons and rolling vehicles, Removable. R. F. Holland. No. 162,776; Dec. 26.
- Waterproof dressing for automobile tops, leather, and textiles. L. E. Davis. No. 151,731; Feb. 14.
- Waterproof dressing for leather and canvas goods. Duluth Boer Oil Co. No. 155,405; May 30.
- Waterproof dressing for leather, rubber, and fabrics, etc. Hail Products Co. No. 150,395; Jan. 3.
- Waterproof fabric. Archer Strauss Rubber Company. No. 153,100; Mar. 14.
- Waterproof fabrics. Fred S. Bennett, Inc. No. 151,674; Feb. 14.
- Waterproof fabrics. Schwarzwaelder Company. No. 160,808; Oct. 24.
- Waterproof fabrics in the piece, tents, awnings, etc. Arthur F. Smith Company. No. 154,154; Apr. 4.
- Waterproofed and rubberized fabrics. Pocono Rubber Cloth Company. No. 159,990; Oct. 10.
- Waterproofed cotton duck and canvas. W. W. Stanley. No. 150,978; Jan. 10.
- Waterproofed fabrics. E. I. du Pont de Nemours & Company. No. 159,869; Oct. 10.
- Waterproofed textile fabrics. Edward McConnell & Co. No. 157,140; July 25.
- Waterproofed top and seat cover cloth of a textile nature. Golde-Patent Manufacturing Co. No. 162,763; Dec. 26.
- Waterproofing and preservative compound. W. E. Tucker. No. 154,402; Apr. 11.
- Waterproofing composition. J. Zoltowski. No. 152,015; Feb. 14.
- Waterproofing compositions for use between decks of ferryboats. Toch Brothers. No. 162,917; Dec. 26.
- Waterproofing compound for concrete, plaster, and stucco. Goheen Corporation. No. 160,195; Oct. 17.
- Waterproofing compound for use in connection with stone, etc. Morene Products Co. Nos. 153,248-50; Mar. 14.
- Waterproofing compounds, Liquid. Scofield, Evans and Company. No. 160,286; Oct. 17.
- Water purification apparatus. International Filter Co. No. 154,979; May 16.
- Water purification, chlorine-control apparatus, and certain other apparatus, Chemical-control equipment for. Wallace & Tiernan Co. No. 156,775; July 11.
- Water purifying machinery and parts thereof. United States Ozone Company. No. 162,145; Dec. 5.
- Water-softening apparatus. Borromite Company of America. No. 154,882; May 16.
- Water stills. Barnstead Still & Sterilizer Co. No. 153,658; Mar. 28.
- Water systems, Fresh. National Utilities Corporation. No. 162,843; Dec. 26.
- Waters and other nonalcoholic drinks, Mineral. S. C. Rogers and J. S. Pearson. No. 21,318; renewed June 21, 1922.
- Waters, Natural mineral. Societe Generale des Eaux Minerales de Vittel. Nos. 155,531-2; May 30.
- Watermelons. South East Missouri Melon Growers' Association. No. 154,704; Apr. 18.
- Wax dressing, Improved sanitary. W. H. & F. Jordan, Jr. Mfg. Co. No. 158,997; Sept. 19.
- Weaners, Stock. Purcell Company. No. 156,739; July 11.

Alphabetical list of trade-marks—Continued.

- Wearing apparel, Certain articles of ladies'. Irwin Cloak Company. No. 156,131; June 13.
- Wearing apparel, Certain articles of ladies'. Kline Apparel Company. No. 156,134; June 13.
- Wearing apparel, Ladies'. A. E. Simpson. No. 152,046; Feb. 14.
- Weather and water proof coatings in liquid and paint-like form. Heppes-Nelson Roofing Company. No. 158,979; Sept. 19.
- Webbing and shirred elastic ribbon, Elastic. A. Stein & Company. No. 159,120; Sept. 19.
- Webbing, Jute. Ludlow Manufacturing Associates. No. 159,717; Oct. 3.
- Webbing, Jute. Ludlow Manufacturing Associates. No. 161,536; Nov. 14.
- Webbing, Textile. Hudson Narrow Fabric Co. No. 155,720; June 6.
- Welders and parts thereof, Electric. Federal Machine and Welder Co. No. 151,473; Feb. 7.
- Welding and cutting apparatus. Weld It Acetylene Company. No. 157,441; Aug. 1.
- Welding bars and rods. Atlas Foundry Company. No. 159,264; Sept. 26.
- Welding plates and powders, brazing and tempering powders. Societe des Plaques et Powders a Souder J. Lafitte. No. 159,105; Sept. 19.
- Well drilling and fishing tools. Oil. Acme Fishing Tool Company. No. 150,700; Jan. 10.
- Well-drilling and milling tools. Williams-Koen-McManis Co. No. 151,008; Jan. 10.
- Well-drilling machines and tools, steam engines, etc. Keystone Driller Company. No. 152,846; Mar. 7.
- Well tools and equipment, Oil. Union Tool Company. No. 156,934; July 18.
- Weltung. Broekton Rand Company. No. 154,886; May 16.
- Weltung. Chicago Belting Company. No. 154,511; Apr. 18.
- Wheat, corn, barley, and rye. F. H. Peavey & Company. No. 21,191; renewed May 24, 1922.
- Wheels and parts thereof, Vehicle. R. G. Nierman. No. 159,969; Oct. 10.
- Wheels for bicycles, etc., Detachable hydrocarbon motor. Briggs & Stratton Company. No. 153,126; Mar. 14.
- Wheels. Load-carrying. Motor Wheel Corporation. No. 162,833; Dec. 26.
- Wheels, Vehicle. W. B. Kerrick. No. 160,549; Oct. 24.
- Whiskies and alcoholic liquors. H. Large, Jr., and F. C. Renziehausen. No. 19,997; renewed Aug. 11, 1921.
- Whisky. Distillers Finance Corporation. No. 151,119; Jan. 24.
- Whisky. Mattingly & Moore Distillery Co. No. 162,305; Dec. 12.
- Whip powder. Hirsch Brothers Company. No. 160,526; Oct. 24.
- Wicks, Woven. National Enameling & Stamping Co. No. 160,248; Oct. 17.
- Winding frames. Atwood Machine Company. No. 159,266; Sept. 26.
- Window and door screens, roller casters, wooden skewers, and candy sticks. Novelty Wood Works. No. 151,397; Jan. 31.
- Window antirattlers. D. H. Chason. No. 156,506; June 27.
- Window attachments for carrying and adjusting shades. Ventafite Shade Regulator Company. No. 152,534; Feb. 28.
- Window frames. H. D. Wilson. No. 159,787; Oct. 3.
- Window glass, Translucent material in sheets for decorating. McCaw, Stevenson & Orr, Limited. No. 22,791; renewed Apr. 11, 1923.
- Window-light frames for vehicle tops. Snaplok Company. No. 160,671; Oct. 24.
- Window screens. Foster Screen Co. No. 153,719; Mar. 28.
- Windows and window frames. Standard Comfort Window Corporation. No. 159,764; Oct. 3.
- Windshield cleaners. Apex Electric Mfg. Company. No. 153,649; Mar. 28.
- Windshield cleaners. C. A. Edwardsen. No. 157,496; Aug. 8.
- Windshield cleaners. La Vietes Manufacturing Co. No. 151,180; Jan. 24.
- Windshield-cleaning devices. Doughty Mfg. Company. No. 153,152; Mar. 14.
- Windshield sunshade. B. H. Pugh. No. 156,809; July 11.
- Windshield visors. F & W Manufacturing Company. No. 162,745; Dec. 26.
- Windshield visors. A. G. F. Kurowski. No. 153,224; Mar. 14.
- Windshield wipers of the squeegee type. Ternstedt Manufacturing Company. No. 160,692; Oct. 24.
- Windshields for motor vehicles. Simplex Windshield Wing Co. No. 152,999; Mar. 7.
- Wine, Champagne. L. O. Roederer. No. 153,294; Mar. 14.
- Wine, Ferrated bitter. B. R. Kozlowski. No. 151,526; Feb. 7.
- Wine, Medicinal bitter. Picon & Cie. No. 161,828; Nov. 21.
- Wine tonic, Medicated. Bonovin, Limited. No. 158,185; Aug. 29.
- Wines. Lisás y Ca., S. en C. No. 154,085; Apr. 4.
- Wines, Champagne. Walbaum, Goulden & Co. No. 157,603; Aug. 8.
- Wines, Champagne. Walbum, Goulden & Co. Nos. 158,135-6; Aug. 22.
- Wines, Champagne. Werle et Compagnie. Nos. 152,544-5; Feb. 28.
- Wines, Portuguese. Companhia Geral d'Agricultura das Vinhas do Alto Douro. No. 21,716; renewed Sept. 6, 1922.
- Wiping, polishing, and cleaning cloths. Massasoit Manufacturing Company. No. 151,865; Feb. 14.
- Wire and floral wire, Dressmakers' and milliners'. Warren Featherbone Company. No. 161,031; Oct. 31.
- Wire, Barbed. Washburn & Moen Company. No. 20,716; renewed Feb. 16, 1922.
- Wire cable, Insulated. United States Rubber Company. No. 153,341; Mar. 14.
- Wire cloth, netting, and fabric, etc. Wickwire Spencer Steel Corporation. No. 152,548; Feb. 28.
- Wire fencing and barb wire. Keystone Steel & Wire Company. No. 159,398; Sept. 26.
- Wire for stitching machines. J. L. Morrison. No. 19,125; renewed Mar. 3, 1921.
- Wire overall loops. American Buckle Company. No. 162,466; Dec. 19.
- Wire rope, Macwhytie Company. No. 151,342; Jan. 31.
- Wire rope and cables and aeroplane cables. American Steel & Wire Company of New Jersey. No. 154,865; May 16.
- Wire-rope cables. Upson-Walton Company of New York. No. 154,172; Apr. 4.
- Wire-rope clips. Lamson & Sessions Company. No. 162,529; Dec. 19.
- Wire-stitching machine. J. L. Morrison. No. 19,124; renewed Mar. 3, 1921.
- Wireless apparatus. J. D. R. Freed. No. 153,172; Mar. 14.
- Wireless receiving and transmitting sets, crystal detectors, vacuum-tube sockets, etc. Radiola Wireless Corp. No. 162,345; Dec. 12.
- Wireless receiving outfits in one complete unit inclosed in a cabinet. R. A. McKinney. No. 161,540; Nov. 14.
- Wireless telephone receiving outfits, sending suits, and certain accessories thereto. Atlantic Instrument Co. No. 162,187; Dec. 12.
- Wireless transmitting and receiving apparatus. Loyd Wireless Telephone Corporation. No. 160,908; Oct. 31.
- Wires for conducting electricity. J. L. Lohfeld & Co. No. 161,210; Nov. 7.
- Wood filler. Dyas & Le Gros. No. 152,752; Mar. 7.
- Wood fillers. Lewis Grafflin. No. 152,798; Mar. 7.
- Wood fillers for fibrous sheets and other forms. L. Grafflin. No. 152,797; Mar. 7.
- Wood products. Sohl & Company. No. 153,308; Mar. 14.
- Wooden posts, ties, etc. Hiawatha Lumber Co. No. 155,981; June 13.
- Woodwork finish, Interior wall. Alinall Manufacturing Company. No. 158,374; Sept. 5.
- Woodworking machinery, Certain. Jones Superior Machine Company. No. 161,954; Nov. 28.
- Wool and artificial silk piece goods and combinations of the same. Turner & Walls. No. 158,837; Sept. 12.
- Wool and hair. A. O. Trostel. No. 151,265; Jan. 24.
- Wool and serge goods in the piece. Julius Booth Son, Inc. No. 150,742; Jan. 10.
- Wool and silk piece goods and combinations of same. Societe Rodier. No. 159,750; Oct. 3.
- Wool corduroy piece goods. C. Bahnsen & Co. No. 153,107; Mar. 14.
- Wool fabrics in the piece. Louis Walther Manufacturing Company. No. 162,934; Dec. 26.
- Wool fat. Norddeutsche Wollkammerei & Kammgarnspinnerei. No. 22,095; renewed Nov. 29, 1922.
- Wool, Processed. Philadelphia Wool Scouring and Carbonizing Company. No. 159,984; Oct. 10.
- Wool, Shetland floss, worsted, mohair, alpaca, etc. O. Seiss. Nos. 157,202-3; July 25.
- Wool velour coating piece goods. C. Bahnsen & Co. Nos. 153,104-6; Mar. 14.
- Wool velour coating piece goods. C. Bahnsen & Co. Nos. 153,108-12; Mar. 14.
- Wool, wool and cotton, and wool and silk mixture fabrics. Shlivek Brothers Fabrics Corporation. Nos. 158,087-8; Aug. 22.
- Wool, wool and cotton, and wool and silk mixture fabrics in the piece. Shlivek Brothers Fabrics Corporation. No. 158,810; Sept. 12.
- Wool, worsted, and hair cloths in the piece. Burberrys Limited. No. 161,427; Nov. 14.
- Woolen and cotton piece goods. Millbrook Woolen Mills. No. 150,905; Jan. 10.
- Woolen and silk fabrics, Chemical for testing. O. C. Mack. No. 158,581; Sept. 5.
- Woolen and wool-mixture fabrics. L. Surut. No. 162,912; Dec. 26.
- Woolen, cotton, and silk fabrics, velvets, velveteens. Finkelstein & Sons. No. 152,169; Feb. 21.
- Woolen fabrics. J. A. Bolton. No. 161,417; Nov. 14.
- Woolen fabrics, Woven. Sutton's Mills. Nos. 162,910-11; Dec. 26.
- Woolen, Merino, and cashmere piece goods. Societe Rodier. No. 160,673; Oct. 24.
- Woolen piece goods. Atlantic Mills. No. 155,199; May 23.
- Woolen piece goods. Forstmann & Huffmann. Nos. 150,364-6; Jan. 3.
- Woolen piece goods. Forstmann & Huffmann Company. Nos. 152,173-81; Feb. 21.

Alphabetical list of trade-marks—Continued.

- Woolen piece goods. Forstmann & Huffmann Company. Nos. 153,443-8; Mar. 21.
- Woolen piece goods. Forstmann & Huffmann Company. No. 154,937; May 16.
- Woolen piece goods. Forstmann & Huffmann Company. No. 155,150; May 16.
- Woolen piece goods. Forstmann & Huffmann Company. No. 156,248; June 20.
- Woolen piece goods. Forstmann & Huffmann Company. Nos. 157,946-50; Aug. 22.
- Woolen piece goods. Forstmann & Huffmann Company. Nos. 158,669-76; Sept. 12.
- Woolen piece goods. Forstmann & Huffmann. Nos. 158,954-6; Sept. 19.
- Woolen piece goods. Forstmann & Huffmann. Nos. 161,470-4; Nov. 14.
- Woolen piece goods. Glazier Mfg. Company. No. 159,695; Oct. 3.
- Woolen piece goods. Grant S. Kelley, Inc. No. 150,430; Jan. 3.
- Woolen piece goods. D. S. Mackay & Co. No. 161,541; Nov. 14.
- Woolen piece goods. J. P. McKnight. No. 153,487; Mar. 21.
- Woolen piece goods. Societe Rodier. No. 162,594; Dec. 19.
- Woolen piece goods. Societe Rodier. No. 160,275; Oct. 17.
- Woolen piece goods. S. Stein & Co. No. 152,515; Feb. 28.
- Woolen piece goods. J. P. Stevens & Co. No. 159,768; Oct. 3.
- Woolen piece goods. Strong, Hewat & Co. No. 156,818; July 11.
- Woolen piece goods. Worumbo Manufacturing Company. No. 159,789; Oct. 3.
- Woolen, worsted, linen, velvet, haircloth, venetian, canvas, and cotton piece goods. Associated Commission Co. No. 157,859; Aug. 22.
- Woolen, worsted, etc., piece goods. E. H. King. No. 150,434; Jan. 3.
- Woolens and worsteds in the piece. Blake & Stearns. No. 152,352; Feb. 28.
- Worms and gears. Timken-Detroit Axle Company. No. 150,696; Jan. 3.
- Worsted and woolen textile fabrics. Holden-Leonard Company. No. 152,192; Feb. 21.
- Worsted and woolen textile fabrics. Holden-Leonard Company. No. 162,966; Dec. 26.
- Worsted fabrics or cloths in the bolt. Shawmut Woolen Mills. No. 161,621; Nov. 14.
- Worsted goods. Mayflower Worsted Company. No. 153,795; Mar. 28.
- Worsted goods in the piece. Mayflower Worsted Company. No. 153,794; Mar. 28.
- Worsted, Knitting. Lauerman Bros. Co. Inc. No. 156,807; July 11.
- Worsted piece goods. Atlantic Mills. No. 161,049; Nov. 7.
- Worsted piece goods. Atlantic Mills, Inc. No. 157,304; Aug. 1.
- Worsted, woolen, worsted and cotton, and other piece goods. Louis Walther Manufacturing Company. No. 162,933; Dec. 26.
- Woven, knitted, netted, textile, and pile fabrics in the piece. Cheney Brothers. Nos. 156,204-5; June 20.
- Woven, knitted, netted, textile, and pile fabrics in the piece. Cheney Brothers. No. 157,892; Aug. 22.
- Wrappers, Fruit and vegetable. United Paper Company. No. 155,106; May 16.
- Wrappers on waxed lunch rolls. Robertson Paper Co. No. 155,277; May 23.
- Wreaths and floral decorations, Artificial. L. D. Singer. No. 160,019; Oct. 10.
- Wreaths, bouquets, and floral ornamental trimmings. Dorros Bros. Incorporated. No. 159,179; Sept. 19.
- Wrenches. Shuster Engineering Corporation. No. 152,501; Feb. 28.
- Wrenches and sprayers. Marshall Oil Company of Iowa. No. 153,790; Mar. 28.
- Wrenches, Machine. Efficiency Device Corporation. No. 158,340; Aug. 29.
- Wrenches, Pipe, monkey, automobile, and bicycle. F. W. Macke & Co. No. 162,097; Dec. 5.
- Wrenches, pliers, and socket-wrench sets. Barcalo Manufacturing Company. No. 158,332; Aug. 29.
- Wrenches, Rail-anchor. P. & M. Company. No. 160,109; Oct. 10.
- Wrenches, tool holders, lathe dogs, clamps. J. H. Williams & Co. No. 152,551; Feb. 28.
- Wringers. American Wringer Company. No. 21,591; renewed Aug. 9, 1922.
- Wringers. American Wringer Company. No. 21,593; renewed Aug. 9, 1922.
- Wringers. American Wringer Company. Nos. 22,224-6; renewed Dec. 20, 1922.
- Wringers, Mop. Van Arnam Manufacturing Company. No. 162,925; Dec. 26.
- Wringers, Mop. White Mop Wringer Co. No. 155,117; May 16.
- Writing cases. Hauser & Weil. No. 153,461; Mar. 21.
- Writing cases and tablets, writing sets, and telephone registers. Hauser & Weil. No. 156,288; June 20.
- Writing cases and tablets, writing sets, telephone registers. Hauser & Weil. No. 154,196; Apr. 4.
- Writing fluid. E. M. Raignel, Incorporated. No. 162,347; Dec. 12.
- Writing fluid. Royal Ink and Mucilage Co. No. 155,279; May 23.
- Wrinkle paste. Marinello Company. No. 160,915; Oct. 31.
- X-ray photographs of teeth, Fiber-board frame used in displaying. Associated Radiograph Laboratories. No. 159,262; Sept. 26.
- X-ray tables and stands. Wm. Meyer Company. No. 152,878; Mar. 7.
- Xylophones. J. C. Deagan Inc. No. 151,381; Jan. 31.
- Yarn and boiled linen yarn, Green linen. Irish Linen Society. No. 160,539; Oct. 24.
- Yarn, Cotton. Sanford Spinning Company. No. 21,745; renewed Sept. 13, 1922.
- Yarn, Hand-knitting worsted. M. Goldstein & Co. No. 154,035; Apr. 4.
- Yarn, Sewing. Magnolia Textile Corporation. No. 152,868; Mar. 7.
- Yarns. Smolin-Hartman & Co. No. 150,575; Jan. 3.
- Yarns and acetylcellulose thread, Fancy. Grasselli Chemical Company. No. 157,081; July 25.
- Yarns and artificial and thrown silk, Mercerized and cotton. U. S. Yarn Co. No. 157,233; July 25.
- Yarns and sewing threads, Embroidery. R. Reynolds. No. 159,998; Oct. 10.
- Yarns and thread, Cotton, linen, silk, woolen, and hair. Aktiengesellschaft für Textil-Industrie, vormals Dollfus-Mieg & Cie. Nos. 22,384-8; renewed Jan. 31, 1923.
- Yarns and threads. Aktiengesellschaft für Textil-Industrie, vormals Dollfus-Mieg & Cie. No. 20,786; renewed Mar. 1, 1922.
- Yarns and threads. Cherokee Spinning Co. No. 151,098; Jan. 24.
- Yarns and threads, Silk, etc. Mindlin & Rosenman. No. 154,101; Apr. 4.
- Yarns and threads, Silk and artificial-silk. American Cellulose & Chemical Manufacturing Company. No. 151,067; Jan. 24.
- Yarns, Cotton. Rankin Mills Inc. No. 153,288; Mar. 14.
- Yarns, Embroidery. Kemp & Beatley Inc. No. 162,796; Dec. 26.
- Yarns, Knitting. H. Cohen. No. 159,850; Oct. 10.
- Yarns, Silk, wool, cotton, silk and wool, linen, and worsted. G. S. Rich. No. 159,999; Oct. 10.
- Yarns, Spun silk. New England Spun Silk Corporation. Nos. 159,964-7; Oct. 10.
- Yarns, Spun silk. New England Spun Silk Corporation. Nos. 160,250-5; Oct. 17.
- Yarns, twist floss, thrown silk. Frank F. Pels Company. No. 152,104; Feb. 14.
- Yarns, warps, flosses, threads, and tinsel threads. J. R. Montgomery Company. No. 157,115; July 25.
- Yarns, Wool and silk knitting. L. Hirsch. No. 153,750; Mar. 28.
- Yarns, Worsted. Illinois Yarn Company. No. 162,641; Dec. 19.
- Yeast. E. F. McDonald, Jr. No. 150,458; Jan. 3.
- Yeast. Northwestern Yeast Company. No. 156,965; July 18.
- Yeast. Yeastole Company. No. 151,650; Feb. 7.
- Yeast and yeast mixtures, Compressed. Fleischmann Company. No. 151,760; Feb. 14.
- Yeast compound for use as a general tonic. J. Herstein. No. 161,163; Nov. 7.
- Yeast plant, Chemical food for. G. Gould. No. 158,224; Aug. 29.
- Yeast products. C. G. Kummerlander. No. 155,998; June 13.
- Yeast used in preparation of bread. C. Priest. No. 154,804; May 9.
- Yeastlike bread-making composition. Nutrose Company. No. 162,848; Dec. 26.
- Zagat Inc., New York, N. Y. Emulsion made from castor and olive oils and chocolate. No. 155,877; June 6.
- Zagat Inc., New York, N. Y. Emulsion made from cod-liver oil and chocolate. No. 155,878; June 6.
- Zagat Inc., New York, N. Y. Epsom and rochelle salts, bicarbonate of soda, boracic acid, etc. No. 155,876; June 6.
- Zinc oxide. Loraine Zinc Company. No. 150,944; Jan. 10.

ALPHABETICAL LIST OF LABELS.

- "A. C. Hynd's Germicide Skin-Ku-Rill." (For Bottles, Cartons, and Packages Containing the Tonic Called by Said Name.) A. C. Hynd. No. 24,202; Apr. 4.
- "A. C. Hynd's Hair-She-En." (For Bottles and Cartons and Packages Containing the Product Called by Said Name.) A. C. Hynd. No. 24,876; Aug. 15.
- "A. C. Hynd's Hygienic Hairlife." (For Bottles and Cartons and Packages Containing the Product Called by Said Name.) A. C. Hynd. No. 24,877; Aug. 15.
- "A. C. Hynd's Sweet Almond Cream." (For Bottles and Cartons Containing Said Cream.) A. C. Hynd Co. No. 24,168; Mar. 7.
- "A. C. T. Chemical Products." (For Pieces of Paper or Other Material Which are to be Attached to Bottles, Boxes, or Packages Containing Chemical Articles of Manufacture.) A. C. Thayer. No. 24,738; July 18.
- "A Box of Write-Your-Own-Greetings." (For a Box Containing Ten Blank Christmas Greeting Cards and a Book of Copyrighted Verses.) Master Craft Publishing Company. No. 25,426; Dec. 19.
- "A-1 Bread." (For Loaves of Bread.) Schulz Baking Company. No. 24,185; Mar. 7.
- "A-1 Dough-Nuts." (For Doughnuts.) Schulze Baking Company. No. 25,385; Nov. 28.
- "Abba-Zaba." (For Candies.) Colby & McDermott. No. 24,493; June 20.
- "Abbate's Pastry Wafer Chocolate Coated." (For Wafers and Chips of Pastry or Candy and Which are Coated with Chocolate or Similar Edible Substance.) S. Abbate. No. 24,984; Sept. 5.
- "Abso-Clean." (For Electric Washers.) Detroit Washing Machine Corporation. No. 23,893; Jan. 17.
- "Absorbine, Jr. The Antiseptic Liniment." (For Absorbine, Jr. Liniment.) W. F. Young, Inc. No. 25,026; Sept. 5.
- "Acme Ban-dage Arch Shoe." (For Shoes.) Geo. E. Coffin Shoe Co. No. 24,192; Mar. 14.
- "Acorn Brand Evaporated Milk." (For Sealed Cans Containing Evaporated Milk.) P. E. Sharpless Co. No. 24,280; Apr. 25.
- "Add-A-Room for Dolly." (For Toy Living Room and Furniture.) Inventors Merchandizing Service Co. No. 25,127; Oct. 10.
- "Admiration." (For Envelopes Containing Hair Nets.) B. Frankel Company. No. 24,636; July 4.
- "Adoration Flesh Powder Puff." (For Powder Puffs.) Hochschild Corporation. No. 23,966; Jan. 31.
- "Advance Cork Feltbak." (For Cartons Containing Transmission Linings.) Advance Automobile Accessories Corp. No. 24,902; Aug. 29.
- "Aivory." (For Socks.) Aivory Sox Company. No. 24,393; May 30.
- "Ajem Corn Paste." (For a Proprietary Medicine for the Removal of Corns and the Like.) M. A. Ajemian. No. 24,711; July 18.
- "Alaska Fruit." (For Frozen Fruit.) Alaska Frozen Fruit Co. No. 25,242; Nov. 7.
- "Alaska Patties." (For Patties or Small Pies Consisting of Thin Palatable Crusts or Casings Constructed in Different Combinations. Filled with Various-Flavored Ice Creams, Sherbets, Fruit Ices, or Other Frozen Dainties.) C. Siem. No. 24,555; June 20.
- "Albers." (For Flapjack Flour.) Albers Bros. Milling Co. No. 24,822; Aug. 8.
- "Albers Carnation." (For Wheat Flakes.) Albers Bros. Milling Co. No. 24,824; Aug. 8.
- "Albers Peacock Brand." (For Buckwheat Flour.) Albers Bros. Milling Co. No. 24,821; Aug. 8.
- "Alberto Brand." (For Containers for Macaroni.) United States Macaroni Company. No. 25,096; Oct. 3.
- "All-Season Veil." (For Veils.) A. A. West. No. 24,740; July 18.
- "Aloha." (For Chocolates—Namely, Cherry Cocktail.) Connor & McCormick. No. 24,881; Aug. 8.
- "Alvon Water." (For Mineral Waters.) White Sulphur Springs, Inc. No. 25,009; Oct. 3.
- "Always Best." (For Oranges.) R. Krasnow & Sons, Inc. No. 24,846; Aug. 8.
- "Amami Bath Powder." (For Powder.) Pritchard & Constance, Inc. No. 25,021; Sept. 5.
- "Amasia." (For a Medicinal Preparation Aimed to Overcome the Unnatural Discharge of the Mucous Membrane.) John H. Margosian. No. 24,083; Feb. 14.
- "Ambassador." (For Canned Fish, Sardines.) J. R. Smith Sales Co. No. 25,326; Nov. 14.
- "American Cambric." (For Cotton Piece Goods.) American Printing Company. No. 23,991; Feb. 7.
- "American 'E' Products Company." (For Powdered Soups.) American "E" Products Company. No. 24,712; July 18.
- "American Liberty Brew Malt Extract." (For Cans and Jars Containing Malt Extract.) American Malts & Hops Co. No. 25,359; Nov. 28.
- "American Scout Percale." (For Cotton Piece Goods.) American Printing Company. No. 23,993; Feb. 7.
- "American Unit Cell." (For Electric Batteries.) National Carbon Company Inc. No. 25,397; Dec. 5.
- "Amocat." (For Apricots.) West Coast Grocery Company. No. 24,114; Feb. 14.
- "Ampico." (For Pianos, Piano Players, Player Pianos.) American Piano Company. No. 25,210; Oct. 31.
- "Ampico." (For Pianos, Piano Players, Player Pianos.) American Piano Company. No. 25,244; Nov. 7.
- "Anadora." (For Cigars.) P. Carcel. No. 24,334; May 9.
- "Andy Gump Drops." (For Candy.) S. Smith. No. 24,474; June 6.
- "Andy Gump Drops." (For Candy.) S. Smith. No. 24,475; June 6.
- "Annoinette Silk Hair Net Knotted Ends." (For Hair Nets.) Gibbs & Co. No. 24,167; Mar. 7.
- "Antelope." (For Pears.) Antelope Valley Fruit Growers Association. No. 24,570; June 27.
- "Anza The Culture Ripened Coffee." (For Coffee.) Cultured Coffee Company of America. No. 24,298; May 2.
- "Apex." (For Packages Containing Melons of the Muskmelon Variety, Such as the Cantaloupe, Nutmeg.) Imperial Valley Vegetable and Melon Growers Association. No. 24,254; Apr. 25.
- "Aqua-ton." (For Containers for Mineral Water.) L. J. Bennett. No. 24,825; Aug. 8.
- "Arctic Ice Cream Bar." (For Chocolate-Coated Confection Bars.) J. L. Strong. No. 24,321; May 2.
- "Arctic Sweethearts." (For Cartons and the Like Containing Ice Cream, Ices, Sherbets, Sundaes, and Other Frozen Confections of a Similar Nature.) Carton Can Corporation. No. 25,113; Oct. 10.
- "Are You Married?" (For Claws Attached to Long Handles and Used as Back Scratchers.) R. Kohara & Company. No. 25,303; Nov. 14.
- "Aristocrat." (For Boxes Containing Cigars.) C. E. Bair & Sons. No. 24,221; Apr. 25.
- "Arizona Plain Pongee." (For Cotton Piece Goods.) American Printing Company. No. 23,992; Feb. 7.
- "Arie's Victory Polish." (For a Polish Which can be Used on Automobiles, Furniture, and Other Articles.) J. Arle. No. 24,613; July 4.
- "Asperina." (For Bottles Containing Hair Tonic.) Mrs. H. E. Klukes. No. 23,968; Jan. 31.
- "Asp-Rin-Lax." (For Cold Tablets.) Omez Pharmacal Co. No. 24,667; July 4.
- "Artesian." (For Canned Peas.) Minnesota Valley Canning Co. No. 24,416; May 30.
- "Atlas." (For Salad Dressing.) S. and B. Mfg. Co. No. 25,384; Nov. 28.
- "At-Ta Boy!" (For Chocolate Candy.) J. W. Surbrug. No. 25,400; Dec. 5.
- "Audrey Hair Net." (For Hair Nets.) S. Glemby's Sons Co. Inc. No. 24,916; Aug. 29.
- "Aunt Molly's Home Made Candies." (For Boxes Containing Candy.) Aunt Molly's Kitchen. No. 24,844; Aug. 8.
- "Auto Drive Friend." (For Cement.) Harry A. Cook. No. 24,116; Feb. 21.
- "Auto Spraying Oyle." (For Cans Containing Auto Spraying Oyle.) Motor Products Company. No. 24,089; Feb. 14.
- "Autotrim." (For Automobiles and Furniture Upholstery.) Woodward & Cochey. No. 24,163; Feb. 28.
- "Avanti." (For Boxes Containing Cigars.) Parodi Cigar Co., Inc. No. 24,313; May 2.
- "Aviator Bar." (For Boxes Containing Sugar-Wafer Sandwiches.) Milwaukee Paper Box Company. No. 24,206; Apr. 4.
- "Avondale." (For Canned Peas.) The Kroger Grocery and Baking Co. No. 24,009; Feb. 7.
- "B. Heller & Co.'s Zanzibar-Carbon Indelible Ink." (For Glass Bottles Holding B. Heller & Co.'s Zanzibar-Carbon Indelible Ink.) B. Heller & Company. No. 24,345; May 9.
- "B. Heller & Co.'s Zanzibar-Carbon Indelible Ink Eradicator." (For Glass Bottles Holding B. Heller & Co.'s Zanzibar-Carbon Indelible-Ink Eradicator, a Preparation for Removing Indelible-Ink Marks and Stains.) No. 24,346; May 9.
- "B. Paul's Henna." (For Hair Dye.) P. Balme. No. 24,904; Aug. 29.
- "B. Prompt." (For Boxes Containing Collection and Good Will Labels.) Milwaukee Label & Seal Co. No. 24,086; Feb. 14.
- "B. & P." (For Egyptian Cigarettes.) S. Benaderet. No. 24,486; June 20.

- "B. V. May." (For Hosiery.) May Hosiery Mills. No. 23,906; Jan. 17.
- "Baby Bunting." (For Toilet Powder.) Gordon-Thorne Co. No. 24,065; Feb. 14.
- "Baby-Bruno." (For Fresh Grapes.) James Bruno. No. 24,164; Mar. 7.
- "Baby Label Bread." (For Loaves of Bread.) American Baking Company. No. 25,261; Nov. 14.
- "Baby Lamb Hose." (For Hosiery.) J. H. Blaetz. No. 23,887; Jan. 17.
- "Baby Pants." (For Baby Pants.) Climax Specialty Co. No. 24,135; Feb. 28.
- "Baldwin's Dollar." (For Shovels, Spades, Scoops, Post-Hole Diggers, and Wooden Handles.) Baldwin Tool Works. No. 25,110; Oct. 10.
- "Baldwin's Gold Standard." (For Shovels, Spades, Scoops, Post-Hole Diggers, and Wooden Handles.) Baldwin's Tool Works. No. 25,106; Oct. 10.
- "Baldwin's Monongah Featherweight." (For Shovels, Spades, Scoops, and Wooden Handles.) Baldwin Tool Works. No. 25,109; Oct. 10.
- "Baldwin's Vanadium Steel." (For Shovels, Spades, and Scoops.) Baldwin Tool Works. No. 25,108; Oct. 10.
- "Ballard Hominy Grits." (For Ground Corn, Otherwise Known as Hominy Grits.) Ballard and Ballard Co. No. 23,954; Jan. 31.
- "Ballard White Corn Meal." (For Corn Meal.) Ballard and Ballard Co. No. 23,955; Jan. 31.
- "Bambino Brand." (For Tin Cans Containing Tomato Paste.) Atlantic Canning Company. No. 24,986; Sept. 5.
- "Bamby Bread." (For Bread.) S. E. Loveless. No. 25,305; Nov. 14.
- "Bang Bird America's Popular Parlor Game." (For Boxes Containing the Game Apparatus.) O. E. Jacobs. No. 24,453; June 6.
- "Banquet." (For Macaroons.) Ward Baking Company. No. 24,371; May 9.
- "Bardell Phototone Miniatures." (For Cartons for Post-Cards, Photographs, Prints, and Miniatures.) J. C. Bardell. No. 25,360; Nov. 23.
- "Bare." (For Fresh Grapes.) J. V. Bare. No. 24,483; June 20.
- "Barker's Animal Tonic." (For a Tonic for Horses, Cattle, Hogs and Sheep.) Barker, Moore & Mein Medicine Company Inc. The. No. 24,224; Apr. 25.
- "Barker's Gape Remedy." (For a Remedy for a Gape in Poultry.) Barker, Moore & Mein Medicine Co. No. 24,435; June 6.
- "Barker's Lice Powder." (For Lice Powder for Poultry, Cows, Horses, and Hogs.) Barker, Moore & Mein Medicine Co. No. 24,395; May 30.
- "Barker's Roup Remedy." (For a Remedy for Roup in Poultry and Birds.) Barker, Moore & Mein Medicine Co. No. 24,394; May 30.
- "Barker's Special Poultry Remedy." (For a Regulator and Tonic for Poultry.) Barker, Moore & Mein Medicine Company Inc. The. No. 24,223; Apr. 25.
- "Barnes' Emulsionized Bran Phosphated." (For Packages Containing Poultry Remedies.) S. O. Barnes & Son. No. 25,407; Dec. 19.
- "Barnum's Sweet Made." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 24,801; Aug. 1.
- "Baron's Sulphuron." (For Bottles and Packages of Mineralized Water.) P. L. Barron. No. 24,906; Aug. 29.
- "Barrel Wireless Music." (For a Transformer Used in Wireless Receiving Sets.) R. M. Dinsmore. No. 25,265; Nov. 14.
- "Bassick Casters." (For Packages Containing Casters.) The Bassick Company. No. 24,130; Feb. 28.
- "Bassick Casters." (For Packages Containing Casters.) Bassick Company. No. 25,054; Oct. 3.
- "Bates." (For Hops.) A. J. Ray & Son, Inc. No. 24,708; July 11.
- "Baume Bengué." (For a Medicinal Preparation for Rheumatism, Gout, Neuralgia.) T. Seltzer. No. 23,940; Jan. 17.
- "Bayiella." (For Medicinal Beautifier Salve for External Use.) Smith-Mills Manufacturing Company. No. 24,973; Aug. 29.
- "Beacon." (For Apples.) Beacon Trading Company. No. 24,485; June 20.
- "Beaming Beauties." (For Apples.) Consolidated Apple Growers' Exchange. No. 24,199; Apr. 4.
- "Bear-Tite Piston Ring." (For Envelopes and Boxes for Piston Rings.) Foster, Merriam & Company. No. 25,033; Sept. 12.
- "Beaver." (For Cigars.) Breslin & Campbell. No. 24,487; June 20.
- "Because." (For Cigars.) G. Neuwahl. No. 25,380; Nov. 28.
- "Beckwith." (For Fancy Kadota Figs.) Beckwith Co. No. 24,695; July 11.
- "Bed Rock." (For Coffee.) The Louisville Coffee Company. No. 24,797; Aug. 1.
- "Beech-Nut." (For Cigars.) Peter McGuigan & Sons. No. 24,151; Feb. 28.
- "Beistle's—Christmas Decorations for the Home." (For a Package of Christmas Decorations.) Beistle Company. No. 24,625; July 4.
- "Beistle's Hallowe'en Hat Masks." (For a Package of Hat Masks.) Beistle Company. No. 24,624; July 4.
- "Beistle's Hallowe'en Hats." (For Packages Containing Hallowe'en Hats.) Beistle Company. No. 24,621; July 4.
- "Beistle's Hallowe'en Hats." (For Packages Containing Hallowe'en Hats.) Beistle Company. No. 24,623; July 4.
- "Be-Kissed." (For Candy.) Friedman-Kerr Company. No. 25,117; Oct. 10.
- "Belinda's Joy." (For a Washing Compound.) F. T. Osbaldeston. No. 24,461; June 6.
- "Bella De Cuba." (For Cigars.) Moehle Lithographic Company, The. No. 23,920; Jan. 17.
- "Ben Bey." (For Cigars.) N. Elson. No. 24,502; June 21.
- "Ben-Gay." (For Medicinal Preparation for Rheumatism, Gout, Neuralgia.) T. Seltzer. No. 24,762; July 25.
- "Ben Hur." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,912; Jan. 17.
- "Bennington Brand." (For Flour.) John N. Leonard. No. 24,203; Apr. 4.
- "Benton's Com-Aid." (For Composition of Matter for Use on the Hair.) L. L. Benton. No. 24,774; Aug. 1.
- "Berkshire Pork Sausage Made and Guaranteed By Wm. H. Clark & Sons, Norfolk, Virginia." (For Sausages.) Wm. H. Clark & Sons. No. 24,335; May 9.
- "Bess." (For Macaroni.) B. S. Scotland. No. 25,146; Oct. 10.
- "Best-Ever" Sponge Ball." (For a Rubber Ball with Rubber Sponge Center.) Hochschild Corporation. No. 24,699; July 11.
- "Best Yet." (For Bread.) S. H. Bakken. No. 24,434; June 6.
- "Big Barney Bar." (For Confectionery.) Ohio Confection Company. No. 25,085; Oct. 3.
- "Big Ben." (For Coffee.) Louisville Coffee Company, The. No. 24,852; Aug. 8.
- "Big Hit Nut Roll." (For Candy.) Friedman-Kerr Co. No. 24,447; June 6.
- "Big Jo." (For Bread.) Wabasha Roller Mill Company. No. 24,611; June 27.
- "Big Mike." (For Men's Overalls.) Clawson & Wilson Company. No. 24,190; Mar. 14.
- "Big Mike." (For Men's Work Shirts.) Clawson & Wilson Company. No. 23,892; Jan. 17.
- "Big Money." (For Toilet Paper.) A. M. Eaton Paper Co. No. 25,217; Oct. 31.
- "Big Pig." (For Digester Tankage.) Indianapolis Abattoir Company. No. 24,407; May 30.
- "Big Planted Stock Oysters." (For Packages Containing Canned Oysters.) J. W. Chew. No. 24,134; Feb. 28.
- "Big Six." (For Coffee.) Louisville Coffee Company, The. No. 24,851; Aug. 8.
- "Bingo." (For Bug Killer.) Entomological Laboratories of North America. No. 24,836; Aug. 8.
- "Bingo It—Hits the Spot." (For Puffed-Wheat Confections.) E. F. Allingham Mfg. Co. No. 25,441; Dec. 26.
- "Black Ten." (For Receptacles for Packaging Tea.) A. Schilling & Co. No. 25,434; Dec. 19.
- "Blackberilade." (For a Spread or Jam for Bread, Toast, and Muffins.) Welch Grape Juice Company. No. 25,209; Oct. 24.
- "Blackstone." (For Cigars.) Waitt & Bond, Inc. No. 24,369; May 9.
- "Bleacho." (For Hair Bleach.) J. H. Karp. No. 24,521; June 20.
- "Bleacho Powder." (For Hair Bleach.) J. H. Karp. No. 25,368; Nov. 28.
- "Blossom." (For Folders for Hosiery.) C. J. Fox Company, The. No. 24,247; Apr. 25.
- "Blue Bonnet Brand East Texas Tomatoes." (For Tomatoes.) Texas Tomato Growers Exchange. No. 24,391; May 16.
- "Blue Flag Brand Tomatoes." (For Fresh Tomatoes.) Latterhos & Huber Company. No. 25,131; Oct. 10.
- "Blue Flag Timer." (For Cartons Containing Timers Designed Particularly for Ford Cars, Tractors, and Trucks.) Chicago Timer Factory Incorporated. No. 24,044; Feb. 14.
- "Blue Lake." (For Wrapper for Toilet-Paper Rolls.) Northern Paper Mills. No. 24,180; Mar. 7.
- "Blue Ribbon." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 25,171; Oct. 17.
- "Blue Ribbon." (For Rolls of Wall Paper.) Niagara Wall Paper Company. No. 25,382; Nov. 28.
- "Blue Ribbon." (For Sirupy Fruit-Flavored Concentrates for Making Beverages.) Premier Malt Products Co. of Ohio. No. 25,255; Nov. 7.
- "Blue Ribbon Fig Brownies." (For a Health Food.) California Peach & Fig Grovers. No. 24,230; Apr. 25.
- "Blue Ribbon Toilet Paper." (For Toilet Paper.) Rushmore Paper Mills. No. 23,935; Jan. 17.
- "Blue Seal." (For Toilet Paper of the Crêpe-Paper Variety.) Apex Paper Manufacturing Company. No. 23,953; Jan. 31.
- "Blue & White Soap." (For Soap.) Blue & White Soap Co. No. 24,433; June 6.
- "Bon Ton." (For Bread.) A. Kohn. No. 25,017; Sept. 5.
- "Bond Flour." (For Flour Containers.) General Baking Company. No. 25,118; Oct. 10.

Alphabetical list of labels—Continued.

- "Bond Soup." (For Sealed Cans Containing Soup of Various Kinds.) General Preserve Company, The. No. 24,064; Feb. 14.
- "Bonded." (For Tomatoes.) See-Moon & Company. No. 24,603; June 27.
- "Bonnie." (For a Wrapper for Toilet Paper Rolls.) Northern Paper Mills. No. 24,663; July 4.
- "Bonnie Blue." (For Bias Seam Tape.) Economy Bias Binding Co. No. 24,834; Aug. 8.
- "Bordr-Lana." (For Textile Fabrics.) Louis Walther Manufacturing Company. No. 25,097; Oct. 3.
- "Bouillonized Peanuts." (For Containers of Bouillonized Peanuts.) Bouillonized Peanut Company. No. 24,131; Feb. 28.
- "Boyd's Step Lively Foot Powder." (For a Foot Powder.) C. G. Boyd. No. 25,442; Dec. 26.
- "Brach's 'Huck Finn' Peanut Bars." (For Candy Boxes and Containers for Peanut Bars.) E. J. Brach and Sons. No. 23,888; Jan. 17.
- "Brach's Whipped Creamed Chocolates Bittersweet." (For Candy Boxes and Containers for Whipped Cream Chocolates.) E. J. Brach and Sons. No. 23,889; Jan. 17.
- "Bradleystat." (For Radio Appliances.) Allen-Bradley Company. No. 24,771; Aug. 1.
- "Bran Bread." (For Loaves of Bread.) Schulze Baking Company. No. 24,425; May 30.
- "Brant Load." (For Loaded Shot Shells.) Remington Arms Company. No. 24,469; June 6.
- "Brant Load." (For Loaded Shot Shells.) Remington Arms Company. No. 24,964; Aug. 29.
- "Breectex." (For Athletic Underwear.) Hansley Mills. No. 24,141; Feb. 28.
- "Brehme's Chocolate Pudding." (For a Preparation for Making Chocolate Pudding.) F. Brehme. No. 24,992; Sept. 5.
- "Br'er Rabbit." (For Bread.) Saniwax Paper Co. No. 24,019; Feb. 7.
- "Brewed (Ka-Zu) Punch." (For Beverages.) S. M. Hove. No. 25,224; Oct. 31.
- "Brilliantine." (For Hair Preparations.) Harriet Hubbard Ayer. No. 24,618; July 4.
- "Broadcast." (For Sliced Peaches.) Holland Canning Company. No. 25,367; Nov. 28.
- "Bronze Ink Varnish." (For Bronze Ink Varnish and Gold Ink Powder.) A. Chambley. No. 24,993; Sept. 5.
- "Brook-Knit." (For Pure-Wool Knit Cloth.) H. & H. W. Lewis, Inc. No. 24,850; Aug. 8.
- "Brookland." (For Loganberries.) Oregon Growers Co-operative Assn. No. 25,198; Oct. 24.
- "Brook-Side." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 24,457; June 6.
- "Brownie." (For Bread.) Swander Baking Company. No. 24,975; Aug. 29.
- "Brownie Krust." (For Bread.) H. J. Regus. No. 24,675; July 4.
- "Browning's." (For Strawberry Preserve.) Browning Preserve Co. No. 23,890; Jan. 17.
- "Buckeye." (For Receptacles Containing Bearings and Bushings.) The Buckeye Brass and Manufacturing Company. No. 23,998; Feb. 7.
- "Buckeye School Series." (For Writing Paper in the Form of Tablets.) Irwin Paper Company. No. 25,194; Oct. 24.
- "Buffalo Brand." (For Cheese.) Hasselbeck Cheese Co. No. 24,406; May 30.
- "Built for Lifetime Service." (For Heat-Insulated Bottles, Carafes, Jugs, Jars, Pots, Pitchers, and other Containers for Beverages, Liquids and Solids Used as Food; and on Stands and Holders for said Containers.) Ice-Hot Bottle Company. No. 23,967; Jan. 31.
- "Bull Dog." (For Oranges.) Randolph Marketing Company. No. 25,232; Oct. 31.
- "Bull Dog Brand Fly and Insect Powder." (For Packages of Insect Powder.) Frank Tea & Spice Co. No. 23,898; Jan. 17.
- "Bull-Meat-Brand Flour." (For Receptacles Containing Bull-Meat-Brand Flour, a Product for Use in All Kinds of Sausage.) B. Heller & Co. No. 24,143; Feb. 28.
- "Bungalow Brand." (For Salad Dressing.) F. Hallberg. No. 24,748; July 25.
- "Bungalow Cretonne." (For Cotton Piece Goods.) American Printing Company. No. 23,989; Feb. 7.
- "Buss Fuses." (For Electrical Plug Fuses.) Bussmann Manufacturing Company. No. 24,038; Feb. 14.
- "Buster Brown." (For Hosiery.) United Hosiery Mills Corporation. No. 23,977; Jan. 31.
- "Butter Krust." (For Bread.) Saniwax Paper Co. No. 24,318; May 2.
- "Butter Maid Bread." (For Bread.) Newark Paraffine & Parchment Paper Co. No. 24,592; June 27.
- "Butterfly Brand The Lace Beautiful Package De Luxe." (For Shoe Laces.) McGraw Manufacturing Company. No. 23,907; Jan. 17.
- "Butterrolls." (For Rolls.) L. A. Daniels. No. 24,048; Feb. 14.
- "Byer Baby Stockings." (For Children's Stockings.) House of Byer. No. 25,073; Oct. 3.
- "Byers Golden Almonds." (For Packages Containing Almonds.) Byer & Sons. Nos. 24,573-4; June 27.
- "C. B. High Grade Smoking Mixture." (For Smoking Tobacco.) Lovell-Buffington Tobacco Co. No. 24,936; Aug. 29.
- "C. O. Wells Country Club Brand." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 24,940; Aug. 29.
- "Cackle-More." (For Poultry Food.) J. A. Butler. No. 24,333; May 9.
- "Caffeer." (For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.) S. & J. Augert Bros. No. 24,330; May 9.
- "Cake-Zest." (For Packages, Boxes, and Cases and Cans Containing a Flavoring and Coloring Compound for Food Products.) B. Heller & Company. No. 25,455; Dec. 26.
- "Calcident." (For Tooth Paste.) James A. Hearn & Son, Inc. No. 24,919; Aug. 29.
- "California Citrus Soap Powder." (For Soap Powder and Washing Powder.) Citrus Soap Company of California. No. 24,910; Aug. 29.
- "California Community." (For Fresh Grapes.) Associated Fruit Co. No. 25,027; Sept. 12.
- "Calso." (For Water.) The Calso Company. No. 24,575; June 27.
- "Camel." (For Beverages.) Camel Beverage Co. No. 24,133; Feb. 28.
- "Cameo." (For Phonograph Records.) Cameo Record Corporation. No. 24,231; Apr. 25.
- "Camilla Hair Net." (For Hair Nets.) S. Glemby, Inc. No. 24,998; Sept. 5.
- "Candies." (For Boxes Containing Candy.) Milwaukee Paper Box Company. No. 24,016; Feb. 7.
- "Candy Pops." (For Candied Pop Corn, Fruit, or Nuts.) International Corn Products Corporation. No. 24,071; Feb. 14.
- "Cap-A-Ha." (For Cigars.) Capaha Cigar Co. No. 24,775; Aug. 1.
- "Capitana." (For Wheat Flour.) Texas Star Flour Mills. No. 23,945; Jan. 17.
- "Capitone." (For Hair-Dressing.) William Schneider. No. 24,212; Apr. 4.
- "Carlox Perfected Hair Curlers." (For Hair Curlers.) Boyd-Brenizer Corporation. No. 24,036; Feb. 14.
- "Carmote Red Seal Floor Enamel." (For Carmote Red Seal Floor Enamel.) Carpenter-Morton Co. No. 24,332; May 9.
- "Carolina Brand." (For Sweet Potatoes.) South Carolina Sweet Potato Association. No. 24,320; May 2.
- "Caruso." (For Olive Oil.) R. Martorelli. No. 24,310; May 2.
- "Cash & Carry Brand 1 Sweet Corn 1 Fancy Quality." (For Canned Sweet Corn.) The Novak Grocery Company. No. 24,093; Feb. 14.
- "Cash & Carry Brand 2 Sweet Corn 2 Extra Standard Quality." (For Canned Sweet Corn.) Novak Grocery Company. No. 24,092; Feb. 14.
- "Cash & Carry Brand 3 Sweet Corn 3 Standard Quality." (For Canned Sweet Corn.) The Novak Grocery Company. No. 24,094; Feb. 14.
- "Casha Plaid." (For Woven Woolen Coating Fabrics.) Louis Walther Manufacturing Company. No. 25,354; Nov. 21.
- "Castle." (For Underwear.) Richardson Dry Goods Co. No. 24,548; June 20.
- "Cataract Brand." (For Fresh Fruit.) Western New York Co-operative Ass'n. Inc. No. 24,767; July 25.
- "Celebrated Medicinal Wine of Chenstobow." (For Tonics and Laxatives.) Chenstobow Medical Laboratories, Inc. No. 25,444; Dec. 26.
- "Celery Phos-fo." (For a Medicinal Preparation Named Celery Phos-fo.) Gotham Chemical Company. No. 24,450; June 6.
- "Century." (For Canned String Beans.) Sussman, Wormser & Co. No. 24,366; May 9.
- "Certainteed." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 25,162; Oct. 17.
- "Certified." (For Olives.) California Olive Association. No. 24,628; July 4.
- "Certified Quality The Power Behind Your Motor." (For Lubricating Oil and Gasoline.) American Oil Corporation. No. 25,262; Nov. 14.
- "Chalet Egg Milk Chocolate." (For Packages of Chocolate.) Chalet Chocolate Corporation. No. 24,909; Aug. 29.
- "Challaine." (For Textile Fabrics.) Louis Walther Manufacturing Company. No. 25,023; Sept. 5.
- "Challie de Mousseline." (For Cotton Piece Goods.) American Printing Company. No. 23,983; Feb. 7.
- "Champagne." (For Cantaloupes.) S. McHarg. No. 24,938; Aug. 29.
- "Champée Mushroom Paste." (For Packages and Containers Containing Mushroom Paste.) A. G. Hupfel, Jr. No. 25,423; Dec. 19.
- "Cherokee Liquid Metal Polish." (For Liquid Metal Polish.) T. S. Mohoney, sr. No. 25,339; Nov. 21.
- "Cherries." (For Boxes Containing Cherries in Liquid Covered with Milk Chocolate.) Milwaukee Paper Box Company. No. 24,354; May 9.
- "Cherries In Cordial." (For Boxes Containing Chocolate-Covered Cherries in Cordial.) Milwaukee Paper Box Company. No. 24,943; Aug. 29.

Alphabetical list of labels—Continued.

- "Cherrilade." (For a Spread or Jam for Bread, Toast, and Muffins.) Welch Grape Juice Company. No. 25,205; Oct. 24.
- "Cherryfairly." (For Candy.) Val. Blatz Jr. Candy Co. No. 24,033; Feb. 14.
- "Cherry-San Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 24,088; Feb. 14.
- "Chesterfield." (For Chocolate Caramels.) Metro Chocolate Co. Inc. No. 24,353; May 9.
- "Chief Brand." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 25,169; Oct. 17.
- "Chief Shoshone." (For Apples.) King's Food Products Company. No. 25,300; Nov. 14.
- "Chief Snomas." (For Royal Anne Cherries.) King's Food Products Company. No. 25,302; Nov. 14.
- "Chief Umpqua." (For Royal Anne Cherries.) King's Food Products Company. No. 25,301; Nov. 14.
- "Chief Wauna." (For Loganberries.) King's Food Products Company. No. 25,299; Nov. 14.
- "Child Ed-U-Kat-Her." (For Boxes or Packages Containing Pasteboard Cut-outs of Fanciful Figures.) Murwood Associates. Nos. 24,357-9; May 9.
- "Chimnee-Sweep." (For Cylindrical Packages Containing a Dry Black Chemical Compound Soot Destroyer.) Pacific Coast Sales Company. No. 25,467; Dec. 26.
- "Chinese Maid." (For Noodles.) Tri-Star Noodle Factory. No. 24,109; Feb. 14.
- "Ching Ling Pudding." (For Ice Cream and Ice-Cream Fruit Compounds.) J. J. Wahl. No. 25,329; Nov. 14.
- "Chocolate-Brittle." (For Candy.) C. F. Hickok Co., The. No. 24,201; Apr. 4.
- "Chocolate Cake." (For Cake.) Schulze Baking Company. No. 24,889; Aug. 15.
- "Chocolate Pie." (For Candy.) Schall's Inc. No. 24,681; July 4.
- "Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 24,015; Feb. 7.
- "Chocolates." (For Candy.) Robert Gair Company. No. 24,995; Sept. 5.
- "Choice Box." (For Packages of Confectionery.) Robert A. Johnston Company. No. 24,651; July 4.
- "Chu Chin Powder Puffs." (For Merchandise Card for Powder Puffs.) Sandford Importing Co. No. 24,364; May 9.
- "Churchill Downs." (For Cigarettes.) General Tobacco Company, The. No. 24,248; Apr. 25.
- "Cigars Ormond Vcey Courts." (For Cigars.) J. Bauhofer. No. 25,412; Dec. 19.
- "Cinderella." (For a Wrapper for Toilet-Paper Rolls.) Paper Supply Company. No. 25,314; Nov. 14.
- "Clark's Soda and Magnesia Compound." (For a Soda and Magnesia Compound for the Relief of Stomach Trouble.) T. H. Clark. No. 23,863; Jan. 10.
- "Classique." (For Hair Nets.) A. A. West. No. 24,863; Aug. 8.
- "Cleanright Washing Tablets." (For Washing Tablets.) C. F. Bender. No. 24,292; May 2.
- "Cleo-Vella." (For Textile Fabrics.) Louis Walther Manufacturing Company. No. 25,098; Oct. 3.
- "Climax." (For Cartons Containing Ice Cream.) Menasha Printing and Carton Company. No. 24,941; Aug. 29.
- "Cloverland Creamery Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 25,172; Oct. 17.
- "Club Bread." (For Wax-Paper Bread Wrappers.) Menasha Printing and Carton Company. No. 25,372; Nov. 28.
- "Club Punch." (For a Beverage.) Hay's Fruit Juice Co. No. 25,037; Sept. 12.
- "Cocoanut Showers 'Honey-Like'." (For Candy and Confections.) Frozen Fruit, Inc. No. 24,643; July 4.
- "Co-Co-Con." (For a Cone Made of Pure Chocolate and Filled with Confections.) P. Douvres. No. 25,032; Sept. 12.
- "Coeur de Violette." (For Toilet Soap.) Harriet Hubbard Ayer. No. 24,614; July 4.
- "Coeur de Violette." (For Toilet Soap.) Harriet Hubbard Ayer. No. 24,617; July 4.
- "Co Kis—King of Orange Land." (For Orange Peel.) California Orange Kis Corporation. No. 24,132; Feb. 28.
- "College Days." (For Boxes Containing Candy.) Milwaukee Paper Box Company. No. 24,414; May 30.
- "Columbia Gorge." (For Royal Anne Cherries.) Hood River Canning Co. No. 24,068; Feb. 14.
- "Columbia Hot Shot Battery." (For Electric Batteries.) National Carbon Company. No. 24,587; June 27.
- "Columbia Projector Carbons." (For Columbia Projector Carbon Packages.) National Carbon Co. Inc. No. 23,924; Jan. 17.
- "Columbia Silvertip Negative Projector Carbons." (For Columbia Silvertip Negative Projector Carbon Packages.) National Carbon Company Inc. No. 23,925; Jan. 17.
- "Columbia White Flame A. C. Projector Carbons." (For Columbia White Flame A. C. Projector Carbon Packages.) National Carbon Co. Inc. No. 23,923; Jan. 17.
- "Complexion Balm." (For a Lotion for Beautifying the Skin.) Harriet Hubbard Ayer. No. 24,619; July 4.
- "Compound Syrup of Hypophosphites." (For a Compound Syrup of Hypophosphites.) Davis & Lawrence Co. No. 25,417; Dec. 19.
- "Coney Island Ice Cream Bar." (For Chocolate-Coated Confection Bars.) J. L. Strong. No. 24,322; May 2.
- "Contrast." (For a Paint and Varnish Remover.) A. W. Scoles. No. 25,051; Sept. 12.
- "Corona D'Italia." (For Italian Cigar Boxes.) P. Capobianco. No. 25,361; Nov. 28.
- "Cosmopolitan Hair Net." (For Hair Nets.) New York Merchandise Company. No. 24,155; Feb. 28.
- "Cottage Creamery Butter." (For Cartons for Butter.) Menasha Printing and Carton Company. No. 25,341; Nov. 21.
- "Cotton Fibre." (For Toilet Paper.) Paul E. Trouche. No. 24,124; Feb. 21.
- "Cotton-Top." (For a Nonintoxicating Beverage.) J. F. Tieberman. No. 24,560; June 20.
- "Coulette." (For a Protective Undergarment for Women.) Solvos Company. No. 24,556; June 20.
- "Country Club." (For Cans Containing Red Kidney Beans.) Kroger Grocery & Baking Co., The. No. 24,176; Mar. 7.
- "Crater Blue." (For Royal Anne Cherries.) King's Food Products Company. No. 25,298; Nov. 14.
- "Cream Bread." (For Bread.) Grocers Baking Co. No. 25,120; Oct. 10.
- "Cream of Bran." (For Cereals.) Phospho Food Co. Inc. No. 24,760; July 25.
- "Cream of the Mill." (For Bias Tape.) Economy Bias Binding Co. No. 25,062; Oct. 3.
- "Cream-o-Life." (For Sirup Concentrate, Grape Flavored.) Mound City Products Co. No. 25,310; Nov. 14.
- "Creamery Sunbeam Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 25,252; Nov. 7.
- "Cre-Cal-Co." (For Containers of a Solution Decausticated Creosote.) G. M. Callaway. No. 24,746; July 25.
- "Cremints." (For Packages of Candy.) Cremint Co. No. 24,494; June 20.
- "Crescent Brand." (For Sardines.) F. E. Booth Company. No. 24,294; May 2.
- "Crescent Farm." (For Unsweetened Evaporated Milk.) Crescent Company. No. 24,047; Feb. 14.
- "Crescent Nu-Type Chimney." (For Boxes Containing Chimneys.) Macbeth-Evans Glass Company. No. 25,042; Sept. 12.
- "Crest High Grade Granulated Cut Plug Smoking." (For Smoking Tobacco.) Lovell-Buffington Tobacco Co. No. 24,554; Aug. 8.
- "Cricket Proof." (For Binder Twine.) Ella G. Petersen. No. 24,273; Apr. 25.
- "Crown." (For Root Beer.) Crown Brewing Company. No. 24,778; Aug. 1.
- "Crown." (For Salmon.) Macleay Estate Co. No. 24,702; July 11.
- "Crown Coloring & Chemical Co." (For Liquid Paints for Incandescent Lamps.) M. Blumberg. No. 24,907; Aug. 29.
- "Crowned with Wealth of Vitamines." (For Containers Having Ingredients for Beverages Sold as a Soft Drink.) Douglas & Burns, Ltd. No. 25,031; Sept. 12.
- "Crow Trousers." (For Gentlemen's Trousers.) E. M. Gassner. No. 25,221; Oct. 31.
- "Crucible Steel." (For Shovels, Spades, and Scoops.) Baldwin Tool Works. No. 25,104; Oct. 10.
- "Cub Brand." (For Fresh Grapes.) J. V. Bare. No. 24,484; June 20.
- "Cuban Samples." (For Cigars.) Cole Lithographing and Printing Co. No. 24,296; May 2.
- "Cubbison's Fig Bran Bread." (For Wrappers Containing Cubbison's Fig Bran Bread.) H. G. Cubbison. No. 25,362; Nov. 28.
- "Cupid Bread." (For Bread.) Robertson Paper Co., Inc. No. 24,316; May 2.
- "Curlox Oversize Hair Net." (For Hair Nets.) National Commodities Company. No. 24,589; June 27.
- "Curz-It For Coughs & Colds." (For 2-Ounce Bottles of Curz-It Cough Sirup.) Curz-It Company. No. 25,213; Oct. 31.
- "Cushman's Home Made Bread." (For Loaves of Bread.) Cushman's Sons Inc. No. 24,238; Apr. 25.
- "Cushman's Sons Inc., Grade A. Bread." (For Bread.) Cushman's Sons, Inc. No. 25,333; Nov. 21.
- "Cyclone Cleaner." (For a Cleaning Compound.) Thomas A. Theard. No. 24,690; July 4.
- "Da-Da Bread." (For Bread.) E. Frisch. No. 25,152; Oct. 17.
- "Daffodil." (For Butter.) Aberdeen Creamery Company. No. 24,770; Aug. 1.
- "Daisy." (For Bread.) Saniwax Paper Co. No. 24,597; June 27.
- "Daisy." (For Malt Extract.) Chicago Malt Extract Co. No. 25,184; Oct. 24.
- "Dainty Specialties." (For Candy.) Voegele & Dining Co. No. 23,948; Jan. 17.
- "Dale's Sweet Scrap." (For Tobacco.) Clark & Snover Co. No. 24,045; Feb. 14.

Alphabetical list of labels—Continued.

- "Dan-Doo." (For Containers for a Massage Cream, for Treatment of Dandruff, Blackheads, Eczema, and Pimples of Skin and Scalp.) Dan-Doo Co. No. 24,299; May 2.
- "Dandro Solvent." (For a Hair Tonic Preparation.) Sell Bros. Pharmacists. No. 25,347; Nov. 21.
- "Dandruff and Irritation." (For a Preparation for the Hair and Scalp.) J. E. Curran Corporation. No. 25,060; Oct. 3.
- "Dandy Boy." (For Candy.) Friedman-Kerr Co. No. 24,444; June 6.
- "Dandy Handy." (For Automobile Antiskid Chains and Containers Therefor.) S. A. Akins. No. 24,903; Aug. 29.
- "Danish Butter." (For Creamery Butter Imported from Denmark.) George Maden. No. 24,082; Feb. 14.
- "Darby's Rose Cerate." (For Boxes Containing Darby's Rose Cerate.) Rose Cerate Co. No. 25,234; Oct. 31.
- "Darby's Rose Cerate." (For the Cap of Jars Containing Darby's Rose Cerate.) Rose Cerate Co. No. 25,233; Oct. 31.
- "Darby's Rose Cerate Directions." (For Jars Containing Darby's Rose Cerate.) The Rose Cerate Co. No. 25,144; Oct. 10.
- "Darn Proof Two Feet of Wear in Every Pair." (For Hosiery.) H. W. Anthony. No. 25,330; Nov. 21.
- "Davis." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 24,800; Aug. 1.
- "Death-Blo Certainly Annihilates Pests." (For Packages Containing a Preparation for Destroying Insects.) D. F. Davenport. No. 24,718; July 18.
- "Decatur Pongee." (For Cotton Piece Goods.) American Printing Company. No. 23,987; Feb. 7.
- "Deerfield Brand." (For Breakfast Sausage.) Detroit Packing Co. No. 24,399; May 30.
- "Deerwood." (For Sweet Corn.) The Copps Co. No. 24,777; Aug. 1.
- "De-Hydro." (For Grapes.) California De-Hydro Fruit Co. No. 25,415; Dec. 19.
- "Delico Dips." (For Chocolate-Coated Frozen Confections.) Delico Products Company. No. 24,635; July 4.
- "Della Hair Nets." (For Hair Nets.) New York Merchandise Company. No. 24,534; June 20.
- "Delmar Percale." (For Cotton Piece Goods.) American Printing Company. No. 23,982; Feb. 7.
- "Del Monte." (For Flour.) Albers Bros. Milling Co. No. 24,820; Aug. 8.
- "Del Monte." (For Soft-Collar Pins.) J. Goldsmith, Jr. No. 24,304; May 2.
- "De Long Hair Net." (For Hair Nets.) De Long Hook & Eye Co. No. 24,336; May 9.
- "Del-Riches Brand Green Cut Stringless Beans." (For Cans Containing Stringless Beans.) The Townsend Co. No. 24,816; Aug. 1.
- "Delta Pure Southern Honey." (For Honey Put Up in Retail Containers.) Mississippi and Yazoo Delta Beekeepers' Association. No. 24,268; Apr. 25.
- "De Luxe Tu-Tone." (For Powder Puffs.) Hochschild Corporation. No. 24,698; July 11.
- "De Luxe Vanity." (For Powder Puffs.) Hochschild Corporation. No. 24,724; July 18.
- "De-Pa-Co Best Quality Paint." (For Packages and Containers for Paints.) Debevoise Company. No. 24,054; Feb. 14.
- "De-Pa-Co Concoct." (For Packages and Containers for Paints.) Debevoise Company. No. 24,049; Feb. 14.
- "De-Pa-Co Flat Finish." (For Packages and Containers for Paints.) Debevoise Company. No. 24,050; Feb. 14.
- "De-Pa-Co Luxe Enamel." (For Packages and Containers for Paints.) Debevoise Company. No. 24,055; Feb. 14.
- "De-Pa-Co Mill White Paint." (For Packages and Containers for Paints.) Debevoise Company. No. 24,052; Feb. 14.
- "De-Pa-Co Servicecoat Enamel." (For Packages and Containers for Paints.) Debevoise Company. No. 24,053; Feb. 14.
- "Dependable Brand." (For Cured Meats.) Home Packing & Ice Co. No. 24,146; Feb. 28.
- "Depilatory." (For Preparation for Removing Hair.) Harriet Hubbard Ayer. Nos. 24,615-6; July 4.
- "De Pree Quality Lawn." (For Boxes of Stationery.) White & Wyckoff Mfg. Co. No. 24,328; May 2.
- "Derby." (For Oranges.) L. K. Small Company. No. 24,606; June 27.
- "Dereka Metal Paint." (For Packages and Containers for Paints.) Debevoise Company. No. 24,051; Feb. 14.
- "Detroit Brand." (For Sliced Sugar-Cured Bacon.) Detroit Packing Co. No. 24,578; June 27.
- "Deviled Chili Meat." (For Deviled Chili Meat.) Gebhardt Chili Powder Co. No. 24,005; Feb. 7.
- "Devil's Food Devilish Good." (For Candy.) Friedman-Kerr Co. No. 24,445; June 6.
- "Dexter's Aunt Mary's Bread." (For Bread.) Dexter Baking Company. No. 24,057; Feb. 14.
- "Dexter's Hot Cross Buns." (For Bread.) Dexter Baking Company. No. 24,400; May 30.
- "Dexter's Milk Brand." (For Bread.) Dexter Baking Company. No. 24,779; Aug. 1.
- "Dexter's Mother's Bread." (For Bread.) E. A. Dexter. No. 24,719; July 18.
- "Dexter's Mother's Bread." (For Bread.) Dexter Baking Company. No. 23,959; Jan. 31.
- "Dexter's Spicy Buns." (For Buns.) Dexter Baking Company. No. 23,865; Jan. 10.
- "Dexter's Table Queen Bread." (For Bread.) The Dexter Baking Company. No. 24,780; Aug. 1.
- "Dexter's Whole Wheat Bread." (For Bread.) Dexter Baking Company. No. 24,497; June 20.
- "Dextro Malto No. 1." (For an Infant's Food.) Mead Johnson & Company. No. 24,265; Apr. 25.
- "Dextro Malto No. 3." (For Infants' Food.) Mead Johnson & Co. No. 24,755; July 25.
- "Diamond A." (For Pork and Beans.) Adams & Sons Grocer Company. No. 25,182; Oct. 24.
- "Diamond D." (For Flour.) J. W. Denio Milling Company. No. 24,495; June 20.
- "Diaz Brand." (For Macaroni.) Campanella & Favara Macaroni Co. No. 24,438; June 6.
- "Dick's Quinceed Lotion." (For a Preparation for Chapped Hands.) M. A. Shoemaker. No. 23,941; Jan. 17.
- "Dip-It." (For Cartons Containing Dip-It.) Peel Chemical Corporation. No. 24,097; Feb. 14.
- "Dishwash Soap." (For Cakes of Vegetable-Oil Soap.) Urbane E. Rogers Company, The. No. 24,210; Apr. 4.
- "Dixie Ice Cream." (For Cartons Containing Ice Cream.) Menasha Printing and Carton Company. No. 24,205; Apr. 4.
- "Doco Maid Human Hair Net." (For Doco Maid Human-Hair Nets.) Diamond, Oppenheimer & Co. No. 23,960; Jan. 31.
- "Doll Cut-Out Crepe." (For Toilet Paper.) Fort Howard Paper Company. No. 25,393; Dec. 5.
- "Dolly Varden Hair Net." (For Hair Nets.) New York Merchandise Company. No. 24,536; June 20.
- "Don Domo." (For Boxes and Cans Containing Cigars.) Silver Eagle Cigar Factory. No. 24,972; Aug. 29.
- "Don Mazaro." (For Boxes Containing Cigars.) H. M. Zeldenrust Co., Inc. No. 24,291; Apr. 25.
- "Don Nieto." (For Cigars.) Nathan D. Kaplan. No. 24,148; Feb. 28.
- "Doodeward's Lightning Wonder Gloss." (For Automobiles, Pianos, Furniture, Woodwork, and All Varished, Painted, and Enameled Surfaces.) J. Doodeward. No. 24,375; May 16.
- "Dora Dean Hair Net." (For Hair Nets.) New York Merchandise Company. No. 24,533; June 20.
- "Dorothy Hair Net." (For Hair Nets.) New York Merchandise Company. No. 24,156; Feb. 28.
- "Dos Palmas." (Two Palms.) (For Dates.) Tropical Date Company Inc. No. 25,349; Nov. 21.
- "Double Eagle." (For Fresh Peas.) L. B. Dutton. No. 24,697; July 11.
- "Dove Brand Olive Oil." (For Olive Oil.) G. H. Neofes. No. 24,421; May 30.
- "Dove Load." (For Loaded Shot Shells.) Remington Arms Company. No. 25,048; Sept. 12.
- "Dover Hill Honey." (For Bottles and Cans Containing Honey.) Walter B. Crane. No. 24,117; Feb. 21.
- "Dr. Ashmun's Goiter Remover." (For Bottles, Boxes, or Containers for Goiter Remedy.) E. Ashmun. No. 25,331; Nov. 21.
- "Dr. E. B. Fenton's Special Preparation." (For Packages Containing Remedies for the Diseases of Swine.) E. B. Fenton. No. 25,186; Oct. 24.
- "Dr. Earl S. Sloan's Horse Powders." (For a Medicine for Horses.) Dr. Earl S. Sloan Incorporated. No. 23,874; Jan. 10.
- "Dr. Earl S. Sloan's Star Hoof Ointment." (For an Ointment for Horses and Cattle, for Calked Hoofs, Navicular Trouble, Toe Cracks, Corns, and Tender, Brittle, Contracted, Hard and Dry Feet.) Dr. Earl S. Sloan Incorporated. No. 23,872; Jan. 10.
- "Dr. Huff's Combination Tooth Powder and Mouth Wash Will Neutralize the Acids and Prevent Fermentation." (For Metal or Other Containers for Tooth Powder.) O. W. Huff. No. 24,842; Aug. 8.
- "Dr. Price's Pure Ground Allspice." (For Containers for Allspice.) Price Flavoring Extract Company. No. 25,143; Oct. 10.
- "Dr. Price's Pure Ground Black Pepper." (For Containers for Black Pepper.) Price Flavoring Extract Company. No. 24,962; Aug. 29.
- "Dr. Price's Pure Ground Cinnamon." (For Containers for Cinnamon.) Price Flavoring Extract Company. No. 25,141; Oct. 10.
- "Dr. Price's Pure Ground Cloves." (For Containers for Cloves.) Price Flavoring Extract Company. No. 25,140; Oct. 10.
- "Dr. Price's Pure Ground Ginger." (For Containers for Ginger.) Price Flavoring Extract Company. No. 25,139; Oct. 10.
- "Dr. Price's Pure Ground Nutmeg." (For Containers for Nutmeg.) Price Flavoring Extract Company. No. 25,142; Oct. 10.
- "Dr. Price's Pure Ground White Pepper." (For Containers for White Pepper.) Price Flavoring Extract Company. No. 25,200; Oct. 24.
- "Dr. Price's Pure Paprika." (For Containers for Paprika.) Price Flavoring Extract Company. No. 24,961; Aug. 29.
- "Dr. Schwind's Rose Healing Salve." (For Salve.) Schwind Laboratory. No. 24,682; July 4.

Alphabetical list of labels—Continued.

- "Dr. White's Lung Healer." (For Bottles Containing a Medicine for the Treatment of Sore and Inflamed Lungs, Coughs, Colds, and Bronchial Troubles in General.) First National Laboratories. No. 25,187; Oct. 24.
- "Dr. White's Medicated Beauty Skin Soap." (For Cakes of Medicated Soap for the Treatment of Skin Disorders.) First National Laboratories. No. 25,245; Nov. 7.
- "Dr. White's Oil of Youth." (For Bottles Containing a Liniment for Internal and External Use.) First National Laboratories. No. 25,364; Nov. 28.
- "Dragon Pearls." (For Pearl Necklace.) A. P. Wood Co. No. 25,390; Nov. 28.
- "Dromedary Sliced Candied Peel Citron Orange Lemon." (For Candied Citron.) Orange, and Lemon Peel.) Hills Brothers Company. No. 25,155; Oct. 17.
- "Dry Hand Mops, They Are Sanitary." (For Mops.) Dry Hand Mop Co. Inc. No. 25,269; Nov. 14.
- "Drytex." (For a Wrapper for Folded Paper Towels.) Northern Paper Mills. No. 24,665; July 4.
- "Duchess of Marlborough." (For Invisible Human-Hair Nets.) Morris, Mann & Reilly. No. 24,269; Apr. 25.
- "Duck Load." (For Loaded Shot Shells.) Remington Arms Company. No. 24,467; June 6.
- "Duck Load." (For Loaded Shot Shells.) Remington Arms Company. No. 24,965; Aug. 29.
- "Dukshak." (For Shingle Stains.) A. Shapiro. No. 25,089; Oct. 3.
- "Dunbar's Pitcher Molasses." (For Molasses.) Dunbar Molasses & Syrup Co. No. 24,872; Aug. 15.
- "Durable As Grandma's Knitting." (For Sweaters.) Kling Bros. & Co., Inc. No. 24,308; May 2.
- "Dust-O-Mit." (For Dusters.) Woolleather Corp. No. 24,290; Apr. 25.
- "Easter Joy." (For Candy.) Consumers Biscuit Company. No. 24,576; June 27.
- "Eau De Quinine." (For Bottles Containing Compound Hair Tonic.) S. K. Karegeannes. No. 25,074; Oct. 3.
- "Ecco." (For an Antiseptic Cutting Compound.) Standard Chemical Co. No. 24,282; Apr. 25.
- "Ecco Stir Well." (For a Miscible Oil Spray for Orchards and Ornamental Trees.) Standard Chemical Co. No. 24,196; Mar. 14.
- "Economy Pants." (For Men's, Youths', and Boys' Trousers.) M. Weiner. No. 25,389; Nov. 28.
- "Edelweiss." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 24,459; June 6.
- "Edelweiss." (For Limburger Cheese.) Purity Cream Cheese Co. No. 24,100; Feb. 14.
- "Edgemont." (For Apples.) N. M. Crossley. No. 24,577; June 27.
- "Edgewater." (For Toilet Paper.) Clinton R. White. No. 24,289; Apr. 25.
- "Egg Tonic." (For Egg Tonic.) L. Lambert. No. 24,218; Apr. 18.
- "18 Carat." (For Canned Corn.) Saco Valley Canning Co. No. 25,145; Oct. 10.
- "18 Karat." (For Canned Pears.) Sussman, Wormser & Co. No. 24,367; May 9.
- "Elaine Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 24,087; Feb. 14.
- "El Fani." (For Boxes Containing Cigars.) Sclafani & Sons. No. 24,683; July 4.
- "Eline's Sweet Milk Chocolate." (For Milk Chocolate.) Eline's Incorporated. No. 24,061; Feb. 14.
- "Elmer's Pick O' Sweets." (For Candy.) Elmer Candy Co. Inc. No. 24,003; Feb. 7.
- "El Perfection." (For Cigars.) Stephen S. Kempf. No. 24,073; Feb. 14.
- "El Tovar." (For Boxes Containing Cigars.) Braun Brothers Cigar Company. No. 24,227; Apr. 25.
- "El Traficante." (For Cigars.) Moehle Lithographic Company. No. 23,918; Jan. 17.
- "El Tropico." (For Cigars.) Moehle Lithographic Company. No. 23,914; Jan. 17.
- "El Universo." (For Cigars.) Moehle Lithographic Company. No. 23,915; Jan. 17.
- "Emerson's Ginger-Mint Julep." (For Nonalcoholic Beverages Sold at Fountains and in Bottles as a Soft Drink.) Emerson Drug Company. No. 24,835; Aug. 8.
- "Enameline." (For Paper.) The Peerless Paper Co. No. 24,807; Aug. 1.
- "Enchantment Linen." (For Boxes of Stationery.) White & Wyckoff Mfg. Co. No. 24,326; May 2.
- "Endicott." (For Cigars.) Waitt & Bond, Inc. No. 24,370; May 19.
- "Equity Clothes." (For Men's Clothing.) L. Shapiro & Sons. No. 24,215; Apr. 11.
- "Eskimo Pie." (For Confections.) Russell Stover Company. No. 24,380; May 16.
- "Esquimo Pop." (For Bottles Containing a Nonalcoholic Beverage.) Max Leiber & Company. No. 24,149; Feb. 28.
- "Estrella." (For Wheat Flour.) Texas Star Flour Mills. No. 23,944; Jan. 17.
- "Eudora." (For a Container for Human-Hair Nets.) Fuller-Morrison Company. No. 24,140; Feb. 28.
- "Eureka." (For Automobile and Furniture Polish.) Eureka Metal Polish Co. No. 23,961; Jan. 31.
- "Eveready Unit Cell." (For Electric Batteries.) National Carbon Company, Inc. No. 24,271; Apr. 25.
- "Eveready Unit Cell." (For Electric Batteries.) National Carbon Company, Inc. No. 24,802; Aug. 1.
- "Ever Fresh." (For Coffee.) New Process Coffee Co. No. 25,381; Nov. 28.
- "Everlastik Sport Coat." (For Sweaters.) Eclipse Mills Company, Inc. No. 24,300; May 2.
- "Everybody's Bread." (For Loaves of Bread.) Des Moines Bakery Co. No. 24,056; Feb. 14.
- "Every-Day." (For Bread.) Saniwax Paper Co. No. 24,595; June 27.
- "Excelsior." (For Crab.) Frazar & Company. No. 25,365; Nov. 28.
- "Excelsior Song Improver." (For a Bird Remedy.) Kaempfer's, Inc. No. 24,008; Feb. 7.
- "Exclusive Features of Real Silk Fashioned Hosiery." (For Containers for Hosiery.) Real Silk Hosiery Mills. No. 24,363; May 9.
- "Extra Select Diamond Brand." (For Boxes of Apples.) Bourk-Donaldson-Taylor Fruit Company, The. No. 24,572; June 27.
- "Fairest." (For Hair Nets.) Sitroux Importing Company, Inc. No. 24,020; Feb. 7.
- "Fairy." (For Wrappers for Toilet-Paper Rolls.) Northern Paper Mills. No. 24,179; Mar. 7.
- "Falcon." (For Packages and Boxes Containing Hairpins.) E. B. Dewey. No. 24,871; Aug. 15.
- "Falconette." (For Packages and Boxes Containing Hair Nets.) Falcon Products, Incorporated. No. 24,784; Aug. 1.
- "Falling Hair and Dry Scalp." (For a Preparation for the Hair and Scalp.) J. E. Curran Corporation. No. 25,059; Oct. 3.
- "Famous 41." (For French Dressing.) Windmill Food Products Company. No. 25,148; Oct. 10.
- "Famous — Sealines — Mollins — Hudson — Seal." (For Furs and Skins.) A. Pierini. No. 24,855; Aug. 8.
- "Fancy California Cherries." (For Boxed Cherries.) Penryn Fruit Company. No. 24,541; June 20.
- "Fancy Decorative Incandescent Lamps." (For Electrically-Lighted Christmas-Tree Ornaments.) Lee Exporting & Importing Co. Inc. No. 25,076; Oct. 3.
- "Fancy Gravensteins." (For Boxed Apples.) Sebastopol Apple-Growers Union. No. 24,554; June 20.
- "Farm House." (For Bread.) Waxtwell Paper Company. No. 24,027; Feb. 7.
- "Farmers' Home Veterinary Cabinet." (For Veterinary Cabinets.) Farmers' Veterinary Service, Inc. No. 24,339; May 9.
- "Feinberg Kosher Sausage Co." (For Sausages.) Feinberg Kosher Sausage Co. No. 23,962; Jan. 31.
- "Fenway." (For Envelopes Containing Hair Nets.) B. Frankel Company. No. 24,637; July 4.
- "Finest Orange Drink in Atlantic City." (For Orangeade.) C. Kahaly and A. Shagoury. No. 25,225; Oct. 31.
- "Fire-Chief The Infallible Fire Extinguisher." (For a Jar of Fire-Extinguisher Liquid.) Benson Products Co. No. 24,626; July 4.
- "Firefly." (For Envelopes Containing Hair Nets.) B. Frankel Company. No. 24,641; July 4.
- "Firland." (For Royal Anne Cherries.) Oregon Growers Cooperative Association. No. 25,135; Oct. 10.
- "First National Tasteless Solution of Epsom Salt." (For Bottles Containing Tasteless Solution of Epsom Salt.) First National Pharmacy. No. 24,246; Apr. 25.
- "Five Fruit." (For a Fruit Sirup.) H. H. Hay Sons. No. 24,342; May 9.
- "Five Fruits." (For a Fruit Sirup.) H. H. Hay Sons. No. 25,036; Sept. 12.
- "Flax Wheel Homespun Linen." (For Boxes of Stationery, Writing Tablets, Pound Papers, and Envelopes.) White & Wyckoff Mfg. Co. No. 25,147; Oct. 10.
- "Fliverstick Candy." (For Candy.) Candy Craft, Inc. No. 24,397; May 30.
- "Flora." (For Cigars.) J. Bauhofer. No. 25,410; Dec. 19.
- "Floralife." (For Packages Containing a Food for Plants and Flowers.) Bonn & Company. No. 25,056; Oct. 3.
- "Flor De Anson." (For Cigars, Cigarettes, and Tobacco.) T. J. Huening. No. 24,700; July 11.
- "Fluffy Puff." (For a Confection Containing Ice Cream Inclosed Within Pastry.) G. H. Garnet. No. 24,507; June 20.
- "For Man and Beast." (For a Remedy for Skin and Germ Diseases.) L. C. Ashton & Son. No. 23,886; Jan. 17.
- "Forest Maid." (For Receptacles Containing Salt.) Ohio Salt Company. No. 24,095; Feb. 14.
- "Forest Park." (For Butter.) Bennett Creamery Co. No. 24,396; May 30.
- "Forget-Me-Not." (For Bread.) Saniwax Paper Co. No. 24,599; June 27.
- "Forked Rivets." (For Rivets.) Edwin B. Stimpson Company. No. 25,092; Oct. 3.
- "Fort George." (For Toilet Paper.) George Paper Corporation. No. 25,067; Oct. 3.
- "404 Motor Lax." (For Containers of 404 Motor Laxa Preparation for Removing Carbon from Internal-Combustion Engines.) C. Hyland Jones. No. 24,255; Apr. 25.

Alphabetical list of labels—Continued.

- "4 Most." (For Oranges.) R. Krasnow & Sons, Inc. No. 24,848; Aug. 8.
- "14 in 1." (For Tomatoes.) See-Moon & Company. No. 24,604; June 27.
- "Frallinger's." (For an Outer Wrapper on Boxes Containing Salt-Water Taffy.) Theo. J. Lapres, Inc. No. 25,425; Dec. 19.
- "Frallinger's Original Salt Water Taffy." (For Boxes Containing Salt-Water Taffy.) Theo. J. Lapres, Inc. No. 24,931; Aug. 29.
- "Freckles." (For Popped-Corn and Nut Confection.) Louisville Coffee Company. No. 24,935; Aug. 29.
- "Freez O Pop." (For Confections as a Wrapper.) Far Rockaway Candy Company. No. 24,913; Aug. 29.
- "French Brand." (For Coffee.) The Kroger Grocery & Baking Co. No. 24,010; Feb. 7.
- "Fresh Fine Cakes." (For Cakes.) Matti Tuuri. No. 24,127; Feb. 21.
- "Fresh Home Made Candy." (For Candies.) Collins Candy Co. No. 24,136; Feb. 28.
- "Friendly Tip." (For Cigars.) M. E. Bulka. No. 24,295; May 2.
- "Fruit Cake." (For Cake.) Schulze Baking Company. No. 24,887; Aug. 15.
- "Fruit Loaf." (For Loaves of Bread.) Miller-Parrott Baking Co. No. 24,529; June 20.
- "Fruits and Nuts." (For Boxes Containing Fruits and Nuts Dipped in Cream, Chocolate Covered.) Milwaukee Paper Box Company. No. 24,267; Apr. 25.
- "Fruitsmax." (For Candy and Confectionery.) Field Candy Company. No. 23,895; Jan. 17.
- "Frutchey Silk Shop." (For Silk Fabrics in the Piece.) W. J. R. Frutchey & Co. No. 24,062; Feb. 14.
- "Fuji Chop Suey Sauce." (For Chop Suey Sauce.) Shinsaku Nagano. No. 23,922; Jan. 17.
- "Full O' Fruit." (For Candy.) E. A. Hoffman. No. 24,251; Apr. 25.
- "Fun." (For Candy Confections.) Candy-Toy Company of America. No. 25,391; Dec. 5.
- "Fyr-Pruf." (For Packages Containing Stove and Nickel Polish.) American Ammone Company. No. 24,985; Sept. 5.
- "G and G." (For Ginger Ale.) G. & G. Bottling Co. No. 25,413; Dec. 19.
- "G M C Metallic Grease." (For Lubricating Grease.) Gearo Mfg. Co. No. 24,722; July 18.
- "Gabbler." (For Apples.) Earl Fruit Company of the Northwest. No. 25,418; Dec. 19.
- "Gainsborough Powder Puff." (For Powder Puffs.) Western Bottle Manufacturing Company. No. 24,287; Apr. 25.
- "Garden State Potatoes." (For Potatoes.) Garden State Cooperative Association. No. 25,063; Oct. 3.
- "Gastroids." (For a Remedy for the Liver and Stomach.) E. S. Price. No. 24,857; Aug. 8.
- "Gelfand's Combination Relish." (For Relish.) S. Gelfand. No. 24,401; May 30.
- "Gelfand's Combination Relish." (For Relish.) S. Gelfand. No. 24,403; May 30.
- "Gelfand's Olive Mayonnaise." (For Mayonnaise, a Food Dressing.) S. Gelfand. No. 24,402; May 30.
- "Gen-O-Lac A Varnish Stain." (For Wood Finishes.) Summit Varnish Company. No. 23,878; Jan. 10.
- "Gene Palmer Face Powder." (For Boxes Containing Face Powder.) Gene Palmer Company. No. 24,208; Apr. 4.
- "Geo. E. Wolf Cocktail Brand Sauer Kraut Juice." (For Sauerkraut Juice, Cans.) G. E. Wolf. No. 25,356; Nov. 21.
- "Geo. E. Wolf Health Brand Sauer Kraut." (For Sauerkraut, Cans.) G. E. Wolf. No. 25,357; Nov. 21.
- "George Junior." (For Toilet Paper.) George Paper Corporation. No. 25,119; Oct. 10.
- "Georgian." (For Toilet Paper.) George Paper Corporation. No. 25,066; Oct. 3.
- "Gingham Effects." (For Cotton Piece Goods.) American Printing Company. No. 23,986; Feb. 7.
- "Ginnes' Stout Extract." (For Malt Extracts.) Biltmore Importing Co. No. 24,225; Apr. 25.
- "Glen Rosa." (For Oranges.) L. A. Banks. No. 24,432; June 6.
- "Gliss." (For Containers for a Luster and Protector of Painted, Varnished, and Enameled Surfaces.) H. F. Utzmaier. No. 24,283; Apr. 25.
- "Gold Chain." (For Egg Cartons.) Wright & Parker Co. No. 24,901; Aug. 15.
- "Gold Seal." (For Packages Containing Paint.) Rinkerdens Paint Co. No. 25,321; Nov. 14.
- "Golden Cake." (For Cake.) Schulze Baking Company. No. 24,886; Aug. 15.
- "Golden Food Skates." (For Prepared Fish Foods.) A. Calandra. No. 25,414; Dec. 19.
- "Golden Glow." (For Bread.) Waxwell Paper Company. No. 24,029; Feb. 7.
- "Golden Glow." (For Hand-Selected Sweet Potatoes.) Southern Sweet Potato Exchange. No. 24,107; Feb. 14.
- "Golden Glow Butter." (For Butter.) Riddle-McElwain Co. No. 24,676; July 4.
- "Golden Harvest." (For Bread Wrappers.) Menasha Printing and Carton Company. No. 23,970; Jan. 31.
- "Golden Krust." (For Bread.) G. P. and W. F. Frudeger. No. 25,443; Dec. 26.
- "Golden Nectar." (For Sirupy Concentrate.) Red Sun Products Co. No. 25,201; Oct. 24.
- "Golden Wedding." (For Roasted Coffee.) Ennis-Handly-Blackburn Coffee Co. No. 15,270; Nov. 14.
- "Golden West." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 24,351; May 9.
- "Goldwin." (For Brooms.) Gardner Broom Co. No. 24,504; June 20.
- "Good Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 25,196; Oct. 24.
- "Good Goods." (For Cartons Containing Crackers and Cakes.) Green & Green Company, The. No. 24,249; Apr. 25.
- "Good-Grape." (For Carbonated Grape Drink.) Good-Grape Company. No. 25,273; Nov. 14.
- "Goodman's." (For Noodles.) A. Goodman & Sons, Inc. No. 23,899; Jan. 11.
- "Goody-Mints Candy." (For Candy.) G. L. Rassias. No. 24,809; Aug. 1.
- "Goose Load." (For Loaded Shot Shells.) Remington Arms Company. No. 24,472; June 6.
- "Goose Load." (For Loaded Shot Shells.) Remington Arms Company. No. 24,966; Aug. 29.
- "Gorham Pie." (For Candy.) Gorham Chocolate Company, Inc. No. 24,509; June 20.
- "Graham Bread." (For Wax-Paper Bread Wrappers.) Menasha Printing and Carton Company. No. 25,396; Dec. 5.
- "Graino." (For Soap.) Kendall Products Corporation. No. 24,728; July 18.
- "Grand Duke." (For Cigars.) T. F. McKeigue. No. 24,013; Feb. 7.
- "Grand View." (For Oranges.) Grand View Heights Citrus Assn. No. 24,404; May 30.
- "Grandma's Absorbo." (For a Penetrating Salve.) Park Laboratory Company. No. 24,360; May 9.
- "Grandma's Cake." (For Cake.) Lantz Bros. Baking Co. No. 24,011; Feb. 7.
- "Grandma's Cake." (For Cake.) Lantz Bros. Baking Co. No. 24,076; Feb. 14.
- "Grape-Ade." (For Grape-Flavored Sirup.) L. M. Hirschler. No. 25,009; Sept. 5.
- "Grape Raspberry Jam." (For a Spread or Jam for Bread, Toast, and Muffins.) Welch Grape Juice Company. No. 24,480; June 6.
- "Grated Cheese." (For Grated Cheese.) F. Corticelli. No. 23,956; Jan. 31.
- "Great Western." (For Malt Extract.) Lee M. Hirschler. No. 24,840; Aug. 8.
- "Green Leaf." (For a Wrapper for Toilet-Paper Rolls.) Northern Paper Mills. No. 24,661; July 4.
- "Green Valley Creamery Butter." (For Butter.) Bridgeman-Russell Co. No. 24,037; Feb. 14.
- "Green's Original Chocolate Covered Raisin Cocoaanut Cream Bar." (For Carton for Candy.) Greco Bros. Co. No. 24,511; June 20.
- "Greetings from Hawaii." (For Gift Packages of Hawaiian Fresh Pineapples.) C. J. Day. No. 25,363; Nov. 28.
- "Gridley's." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 24,456; June 6.
- "Grier's Grinding Compound." (For Compounds for Grinding in Bearings.) Griburn Co. No. 24,723; July 18.
- "Grizzly Grip." (For White Rubber Patch.) 20th Century Tire Protector Co. No. 24,710; July 11.
- "Grouse Load." (For Loaded Shot Shells.) Remington Arms Company. No. 24,473; June 6.
- "Growing Oil." (For Hair Preparations.) Mme. R. J. Clark. No. 25,115; Oct. 10.
- "Guai-Co-Dine." (For a Preparation for the Treatment of Tuberculous Bronchial Reflex Nervous Coughs, Whooping Cough, Asthma, and Emphysema.) Haria Brothers. No. 23,870; Jan. 10.
- "Guernsey Brand Evaporated Milk." (For Cans Containing Unsweetened Evaporated Milk.) Pleasant Valley Farms and Morey Condenser Company. No. 24,959; Aug. 29.
- "Gateway Brand." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 25,161; Oct. 17.
- "H. G. Prince & Co.'s Finest." (For Fruit Salad.) H. G. Prince & Co. No. 24,882; Aug. 15.
- "H & H." (For Honey.) Hoffman & Hauck Inc. No. 24,252; Apr. 25.
- "H & H." (For Honey.) Hoffman & Hauck, Inc. No. 25,286; Nov. 14.
- "H & H Butter-Kist Pop Corn." (For Pop-Corn Cartons.) Holcomb & Hoke Manufacturing Co. No. 24,923; Aug. 29.
- "H H Inc." (For Canned Vegetables—namely, Peas.) Holstein Harvey, Inc. No. 25,124; Oct. 10.
- "H H K Egg Shampoo." (For a Shampoo for the Hair and Scalp.) H. H. Kuntzmann. No. 23,904; Jan. 17.
- "Haberdasher." (For Men's and Boys' Hats and Caps of All Kinds.) Leon's Inc. No. 25,077; Oct. 3.
- "Haley's Selected." (For Fruits.) Haley-Neeley Company. No. 25,121; Oct. 10.

- "Hallowe'en Party Table Decorations." (For Packages Containing Table Decorations for a Hallowe'en Party.) Beistle Company. No. 24,622; July 4.
- "Ha-Lo Antiseptic Cylinders, Antiseptic Healing Deodorant Prophylactic." (For Medicinal Preparations for Colds, Grippe, Headache, and Neuralgia.) Louis C. Rohlfing. No. 24,122; Feb. 21.
- "Ha-Lo Antiseptic Cylinders, Antiseptic Healing Deodorant Prophylactic." (For Medicinal Preparation for Female Diseases.) L. C. Rohlfing. No. 24,677; July 4.
- "Hammermill Announcements." (For Packages Containing Cards.) Hammermill Paper Company. No. 25,278; Nov. 14.
- "Hammermill Announcements." (For Packages Containing Envelopes.) Hammermill Paper Company. No. 25,276; Nov. 14.
- "Hammermill Announcements." (For Packages Containing Sheets.) Hammermill Paper Company. No. 25,277; Nov. 14.
- "Hammermill Announcements." (For Hammermill Sample Portfolios Containing Samples of Note Paper and Envelopes.) Hammermill Paper Company. No. 25,421; Dec. 19.
- "Hammermill Bond." (For Packages Containing Envelopes.) Hammermill Paper Company. No. 25,274; Nov. 14.
- "Hammermill Bond." (For Packages Containing Envelopes.) Hammermill Paper Company. Nos. 25,280-1; Nov. 14.
- "Hammermill Bond Cabinet." (For the Top of Cabinets Containing Note Paper and Envelopes.) Hammermill Paper Company. No. 25,275; Nov. 14.
- "Hammermill Bond Cabinet." (For the End of Cabinets Containing Note Paper and Envelopes.) Hammermill Paper Company. No. 25,279; Nov. 14.
- "Hammermill Bond Monarch." (For Packages Containing Envelopes.) Hammermill Paper Company. No. 25,282; Nov. 14.
- "Hampshire Maid Bread." (For Bread.) Shawmut Mills. No. 24,894; Aug. 15.
- "Ham-Roll-Ine." (For Packages, Boxes, or Cases Containing a Meat-Curing Preparation Used in Making Prepared Ham or Sausage Rolls.) B. Heller & Company. No. 25,451; Dec. 26.
- "Hamwich." (For Sandwich.) E. Q. Corder. No. 25,332; Nov. 21.
- "Handy Andy." (For Sealing Tape.) Liberty Paper Co. No. 24,878; Aug. 15.
- "Hanson Percale." (For Cotton Piece Goods.) American Printing Company. No. 23,984; Feb. 7.
- "Happy Days." (For a Beverage.) Crown Brewing Co. No. 24,634; July 4.
- "Hard Candies." (For Candy.) Robert Gair Company. No. 24,996; Sept. 5.
- "Hardware." (For Clothing.) T. Kotzin. No. 24,792; Aug. 1.
- "Harry's Florida Pecan Roll." (For a Nut Confection.) H. Bernstein. No. 24,715; July 18.
- "Harvest." (For Bread.) Waxtwell Paper Company. No. 24,479; June 6.
- "Haughton." (For Lubricants.) Haughton Elevator & Machine Co. No. 24,582; June 27.
- "Have One On Me." (For Malt Extract.) Nicholas V. Kroeze. No. 24,263; Apr. 25.
- "Hay Fever Remedy." (For a Medicinal Compound.) G. P. Kaufmann and L. Henriionnet. No. 25,338; Nov. 21.
- "Hazelwood Kvality Maid." (For Ice Cream.) Hazelwood Ice Cream Co. No. 25,071; Oct. 3.
- "Hearth Bread." (For Wax-Paper Bread Wrappers.) Menasha Printing and Carton Company. No. 25,375; Nov. 28.
- "Heather." (For a Wrapper for Toilet-Paper Rolls.) Northern Paper Mills. No. 24,181; Mar. 7.
- "Heavy Duck Load." (For Loaded Shot Shells.) Remington Arms Company. No. 24,468; June 6.
- "Heavy Duck Load." (For Loaded Shot Shells.) Remington Arms Company. No. 24,968; Aug. 29.
- "Heidelberger Phylmade Sweets." (For Candies.) Heidelberg Confectionery Co. No. 24,067; Feb. 14.
- "Hellers Emulsion." (For Glass Jars Holding Heller's Flavoring Emulsion, a Concentrated Emulsion for Flavoring Purposes.) B. Heller & Co. No. 24,144; Feb. 28.
- "Heller's Fancy-Pastry Pudding Powder." (For Paper Cartons Containing Heller's Fancy-Pastry Pudding Powders.) B. Heller & Company. No. 24,343; May 9.
- "Heller's Malaboza Brand Yolk-Em Egg-Shade Yellow." (For Cans, Packages, Boxes, or Cases Containing a Dry Form or Liquid Form Food Color.) B. Heller & Company. No. 25,461; Dec. 26.
- "Heller's Snow-Drift." (For Containers Holding Heller's Snow-Drift, a Preparation Used for Making a Marshmallow Filling and Topping.) B. Heller & Company. No. 24,344; May 9.
- "Hemco Electric Health Pad." (For Cartons Containing Heating Pads.) George Richards & Company. No. 25,383; Nov. 28.
- "Hemco Twin-Lite." (For Plugs or Receptacles for Electric Lamps.) George Richards & Company. No. 24,811; Aug. 1.
- "Hepa-Radium." (For Medicine for Stomach and Intestinal Troubles.) L. de Lasse. No. 25,061; Oct. 3.
- "Herberts." (For Fruit Salad.) Herbert Packing Co. No. 25,337; Nov. 21.
- "Heron Crepe Tissue." (For Toilet-Paper Rolls.) Linton and Company. No. 24,933; Aug. 29.
- "Hesskin Lotion for Chappes Sunburns After Shaving, Motorist and Family Use." (For Hesskin Lotion.) C. W. Hess. No. 23,965; Jan. 31.
- "Hex-O-Dine." (For a Preparation for the Treatment of Diseases of Acute, Subacute, and Chronic Gonorrhea, Chronic Cystitis, and Urethritis.) Maria Bros. No. 23,867; Jan. 10.
- "Hico Quality Products Syrups." (For Sirups of Various Flavors for Making a Beverage.) J. Heichelbech. No. 25,122; Oct. 10.
- "High Carbon." (For Shovels, Spades, and Scoops.) Baldwin Tool Works. No. 25,107; Oct. 10.
- "High Life." (For Malt Sirup.) Fred Miller Brewing Company, Inc. No. 24,266; Apr. 25.
- "Hi-Glo." (For a Polish for Hardwood Floors, White Woodwork, Furniture, Pianos, Oil Paintings, Automobiles.) Universal Products Co. No. 25,022; Sept. 5.
- "Hi-Grade." (For Toilet Paper of the Crêpe-Paper Variety.) Apex Paper Manufacturing Company. No. 23,952; Jan. 31.
- "Hi-Hi Broad Leaf." (For Cigars.) Charles A. Naylor. No. 24,090; Feb. 14.
- "Hills Bros. Coffee." (For Coffee.) Hills Bros. No. 24,787; Aug. 1.
- "Hires Household Extract For Making Ginger Ale At Home." (For Cartons Containing Ginger-Ale Extract.) Charles E. Hires Company. No. 24,838; Aug. 8.
- "Hog-Nip Flavor." (For the Containers for a Hog Remedy in the Form of a Biscuit.) Peters Hog-Biscuit Co. No. 24,462; June 6.
- "Holland Fabric Finish." (For Boxes of Stationery.) White & Wyckoff Mfg. Co. No. 24,327; May 2.
- "Holland's Butter-Krust." (For Wax Paper Wrappers Containing Bread.) Menasha Printing and Carton Company. No. 23,911; Jan. 17.
- "Holland's Cream Bread." (For Wax Paper Wrappers Containing Bread.) Menasha Printing and Carton Company. No. 23,910; Jan. 17.
- "Holland's Potato Bread." (For Wax Paper Wrappers Containing Bread.) Menasha Printing and Carton Company. No. 23,909; Jan. 17.
- "Holly Pops." (For Candy.) Clinton-Copeland Company. No. 25,116; Oct. 10.
- "Hollywood." (For Mayonnaise.) A. G. Kadlec. No. 24,927; Aug. 29.
- "Holmes Honey Pops." (For Confectionery.) H. G. Holmes. No. 24,725; July 18.
- "Homelike." (For Cake.) Ward Baking Company. No. 24,325; May 2.
- "Home Made." (For Bread.) Waxtwell Paper Company. No. 24,023; Feb. 7.
- "Home Made." (For Bread.) Waxtwell Paper Company. No. 24,025; Feb. 7.
- "Home Made Orange Marmalade." (For Orange Marmalade.) J. Hartmann. No. 24,749; July 25.
- "Honey Bunch." (For Grapefruit.) F. L. Owen. No. 24,806; Aug. 1.
- "Honey Krust." (For Bread.) H. Graugnard. No. 24,510; June 20.
- "Honey-Like" Coccoanut Showers." (For Candy and Confections.) Frozen Fruit, Inc. No. 24,642; July 4.
- "Honey Scotch." (For Candy—Namely Butter Scotch.) J. N. Collins Company. Nos. 24,235-6; Apr. 25.
- "Horse-Radish." (For Horse-Radish.) Lantz Bros. B. Co. No. 24,078; Feb. 14.
- "Horse-Radish Mustard." (For Horse-Radish Mustard.) Lantz Bros. B. Co. No. 24,077; Feb. 14.
- "Hott Doggs." (For a Confection.) L. L. Lipschultz. No. 25,226; Oct. 31.
- "House that Jack Built." (For the Cover of a Game Box.) Noble and Noble. No. 25,253; Nov. 7.
- "Huber's Shoe Grease." (For Shoe Grease.) J. W. Huber. No. 24,512; June 20.
- "Hudson Refined Pure Lard." (For Pure Lard.) Joseph Stern & Sons, Inc. No. 24,765; July 25.
- "Humpty Dumpty." (For Candies—Namely, Kiddie Junior Candies.) Candy Craft, Inc. No. 24,040; Feb. 14.
- "Hunts Supreme." (For Canned Peaches.) Hunt Brothers Packing Company. No. 24,306; May 2.
- "Husky Graham Bread." (For Bread.) M. Zinsmaster. No. 24,693; July 4.
- "Hygro." (For a Whole-Wheat Flour.) Albers Bros. Milling Co. No. 24,694; July 11.
- "Hy-Test." (For Coffee.) Paris & Co. No. 25,231; Oct. 31.
- "Hy Tone Linen." (For Stationery.) Western Tablet & Stationery Company. No. 25,052; Sept. 12.
- "Hygro." (For Toilet Paper.) A. M. Eaton Paper Co. No. 25,220; Oct. 31.
- "Ice Cream Makers' Friend." (For Bottles Holding Ice Cream Makers' Friend, a Flavoring Compound.) B. Heller & Co. No. 24,142; Feb. 28.
- "Ice Cream Makers' Friend Dry Form." (A Receptacle Containing Ice Cream Makers' Friend in Dry Form, a Flavoring Compound in Dry Form.) B. Heller & Co. No. 24,145; Feb. 28.

Alphabetical list of labels—Continued.

- "Ice Pie." (For Ice Cream Confection.) Louis H. Hoppe and William L. Bruggman. No. 24,349; May 9.
- "Iceberg Ice Cream Bar." (For Ice Cream and Ice-Cream Confections.) L. V. Orsinger. No. 24,312; May 2.
- "Icele." (For Confections Having an Ice-Cream Base.) Butler-Blanchard Co. No. 25,112; Oct. 10.
- "Il Vincer." (For Boxes Containing Cigars.) Petri Italian-American Cigar Co. No. 24,542; June 20.
- "Ho Water." (For Mineral and Medicinal Waters.) Isle of Wight Water Company. No. 24,217; Apr. 18.
- "Imerso Electric Water Heater." (For Immersion Electric Water Heaters.) Electric Heater Co. No. 24,138; Feb. 28.
- "Immac." (For a Cream Deodorant and Antiperspirant.) Hannibal Pharmaceutical Company. No. 25,283; Nov. 14.
- "Imperial." (For Cartons Containing Ice Cream.) Menasha Printing and Carton Company. No. 25,170; Oct. 17.
- "Imperial." (For Tomato Paste.) John S. Mitchell Incorporated. No. 25,378; Nov. 28.
- "Indian Corn Candy." (For Butter Cream Confections—Namely, Indian Corn Candy.) The Nuss Confectionery Company. No. 24,666; July 4.
- "Indian Root Tea." (For a Medicinal Compound—Namely, Indian Root Tea.) Indian Herb & Tonic Root Combination. No. 25,039; Sept. 12.
- "Infanzon & Rodriguez Porto Rican Planter." (For Cigars.) Infanzon & Rodriguez. No. 24,513; June 20.
- "Ingluvin." (For a Powder Indicated for Indigestion, Dyspepsia, Nausea, Etc.) William R. Warner & Co., Inc. No. 24,286; Apr. 25.
- "Instantaneous Metal Polish." (For Bottles Containing a Liquid Metal Polish.) W. H. Salisbury. No. 24,317; May 2.
- "International Bath Robe." (For Bath Robes by Being Attached Thereto and by Being Attached to Bath Boxes and Packages Containing Said Bath Robes.) International Bath Robe Co. No. 25,250; Nov. 7.
- "Iris." (For Cantealoupes.) R. Krasnow & Sons, Inc. No. 24,845; Aug. 8.
- "Iris." (For Fresh Grapes.) R. Krasnow & Sons, Inc. No. 24,849; Aug. 8.
- "I-S-T-S." (For a New Preparation for Washing and Healing Bleeding Gums and as a Mouth Wash.) C. F. Marsh. No. 24,827; Aug. 8.
- "It Kills 'Not' Drives." (For Insect Exterminators.) Plenge's Pharmacy Inc. No. 24,463; June 6.
- "J. Rodriguez & Bros." (For Cigars.) J. Rodriguez & Bros. No. 25,345; Nov. 21.
- "J. I. Triplett's Champion." (For Wheat Flour.) J. I. Triplett. No. 24,108; Feb. 14.
- "Jack and Jill." (For Candles—Namely, Kiddie Junior Candles.) Candy Craft, Inc. No. 24,042; Feb. 14.
- "Jack's Bait Wiggle Tail." (For Containers for Fishing Bait.) J. R. Cunningham. No. 24,177; July 18.
- "Jack's Fish Ferrets." (For Fishing Tackle.) J. R. Cunningham. No. 24,716; July 18.
- "James Arlington." (For Cigars.) A. C. Henschel & Co. No. 25,223; Oct. 31.
- "Jameson's Rheumatic & Neuritis Herb Remedy." (For a Medicine for Rheumatism and Neuritis.) F. Jameson. No. 24,454; June 6.
- "Jane Drew." (For Candies.) L. R. Steel Company. No. 24,687; July 4.
- "Jax-Avana." (For Cigars.) The H. Gordon Co. No. 24,007; Feb. 7.
- "Jean." (For Boxes, Packages, or Envelopes Containing Hair Nets.) S. Glemby, Inc. No. 25,068; Oct. 3.
- "Jean Double Strand Hair Net." (For Hair Nets.) S. Glemby's Sons Co. No. 25,002; Sept. 5.
- "Jeanette's Alpine Health Cheese." (For Goat's-Milk Cheese.) D. B. Holloway. No. 25,422; Dec. 19.
- "J. B. Well." (For a Raspberry Mixture.) The Miles Manufacturing Co. Inc. No. 24,802; Aug. 1.
- "Jevne's." (For Biscuit Flour.) H. Jevne Company. No. 24,518; June 20.
- "Jevne's." (For Chocolates.) H. Jevne Co. Nos. 25,011-12; Sept. 5.
- "Jevne's Brown Mill." (For Coffee.) H. Jevne Co. No. 24,516; June 20.
- "Jevne's Gingham." (For Coffee.) H. Jevne Co. No. 24,515; June 20.
- "Jevne's Look for the Gingham Package." (For Rolled Oats.) H. Jevne Co. No. 24,517; June 20.
- "Jevne's Look for the Gingham Package." (For Rolled Oats.) H. Jevne Co. No. 24,519; June 20.
- "Jewel Freezer." (For Ice-Cream Freezers.) Steinfeld Bros. No. 24,862; Aug. 8.
- "Jewel Loaf." (For Loaves of Bread.) Chas. E. Patton. No. 24,096; Feb. 14.
- "Jiffy-Andy." (For Toe-Protecting Devices for Shoes.) Jiffy-Andy Toe Protector Company. No. 24,147; Feb. 28.
- "Jim Dandy." (For Fresh Apples.) Wenatchee District Co-Operative Association. No. 23,894; Jan. 17.
- "Jim-Dandy Bread." (For Bread.) Century Biscuit Co. No. 24,490; June 20.
- "Jim Hill." (For Fresh Apples.) Wenatchee District Co-Operative Association. No. 24,113; Feb. 14.
- "Johnston's Scotch Floor Enamel." (For Cans Containing Floor Enamel.) R. P. Johnston Paint Company. No. 24,408; May 30.
- "Joyner Remedies." (For Pharmaceutical Preparations.) Joyner Drug Company. No. 24,256; Apr. 25.
- "Jumbo Bread." (For Bread.) Century Biscuit Co. No. 24,232; Apr. 25.
- "Justrite." (For Cigars, Cigarettes, and Tobacco.) Albert Worch. No. 24,189; Mar. 7.
- "KB Handy Shoe Shiner Cloth." (For Paper Box Container and on Label Affixed to Cloth.) J. A. Callahan. No. 24,745; July 25.
- "Kabro." (For a Hand or Skin Lotion.) Kate Brown Co. No. 24,175; Mar. 7.
- "Kaempfer's Canary Highball." (For a Bird Food and Tonic.) Kaempfer's Incorporated. No. 24,928; Aug. 29.
- "Kaestner's Balsam." (For Cough Sirup.) Lester E. Herman. No. 24,200; Apr. 4.
- "Kahn's American Beauty." (For Lard.) E. Kahn's Sons Company. No. 25,251; Nov. 7.
- "Kahn's Diamond K." (For Bacon.) E. Kahn's Sons Company. No. 25,291; Nov. 14.
- "Kahn's Diamond K." (For Bologna-Style Sausage.) E. Kahn's Sons Company. No. 25,293; Nov. 14.
- "Kahn's Diamond K." (For Frankfurter-Style Sausage.) E. Kahn's Sons Company. No. 25,292; Nov. 14.
- "Kahn's Diamond K." (For Ham.) E. Kahn's Sons Company. No. 25,289; Nov. 14.
- "Kahn's Diamond K." (For Lard.) E. Kahn's Sons Company. No. 25,290; Nov. 14.
- "Kahn's Diamond K." (For Lard Compound Made from Pure Lard and Pure Beef Fat.) E. Kahn's Sons Company. No. 25,296; Nov. 14.
- "Kahn's Diamond K." (For Sausage.) E. Kahn's Sons Company. No. 25,294; Nov. 14.
- "Kahn's Diamond K." (For Shoulder.) E. Kahn's Sons Company. No. 25,295; Nov. 14.
- "Kant Creep Patch." (For Cans Containing Auto Tube or Rubber Patch.) Simplicity Mfg. Co. No. 25,325; Nov. 14.
- "Kaps Vapor Balm." (For a Catarrh Remedy.) L. M. Kaplan. No. 25,128; Oct. 10.
- "Ka-Zu." (For Extracts, Sirups, and Beverages.) S. M. Hoyer. No. 24,925; Aug. 29.
- "Kelcomeal." (For a Food.) Kehlor Flour Mills Co. No. 24,701; July 11.
- "Kellogg's Shredded Whole Wheat Biscuit." (For a Food Specifically Known as Kellogg's Shredded Whole-Wheat Biscuit.) Kellogg Toasted Corn Flake Co. No. 25,015; Sept. 5.
- "Ken." (For Soap.) Kendall Products Corporation. No. 24,409; May 30.
- "Kendene." (For Soap.) Kendall Products Corporation. No. 24,730; July 18.
- "Kentucky Club Smoking Mixture." (For Smoking Tobacco.) Lovell-Buffington Tobacco Co. No. 24,853; Aug. 8.
- "Kern's Sliced Bacon." (For Sliced Bacon.) George Kern, Inc. No. 24,843; Aug. 8.
- "Kern's Sugar Cured Sliced Bacon." (For Sliced Bacon.) George Kern, Inc. No. 24,929; Aug. 29.
- "Kerr's Bun." (For Candy.) Friedman-Kerr Co. No. 24,446; June 6.
- "Kerr's High Ball." (For Candy.) Friedman-Kerr Co. No. 24,449; June 6.
- "Kerr's Snow Ball." (For Candy.) Friedman-Kerr Co. No. 24,448; June 6.
- "Key West Repeater." (For Cigars.) Watkins and Kemp Cigar Company. No. 24,112; Feb. 14.
- "Key West Tobacco Co.'s Havana Cigar Clippings." (For Pouches of Chewing and Smoking Tobacco.) H. B. McKicker. No. 23,969; Jan. 31.
- "Killafly." (For Packages Containing Insect Powder.) Flo-Voro Company. No. 23,896; Jan. 17.
- "Kill-O-Pest." (For a Liquid Disinfectant for Destroying Ants, Moths, Flies.) Universal Products Co. No. 24,739; July 18.
- "King Kwality Koffee." (For Coffee.) King Koffee Company. No. 24,307; May 2.
- "King Midas." (For Toasted Wheat Cereal.) Shane Bros. & Wilson Co. No. 24,763; July 25.
- "King's." (For Dehydrated Loganberries.) King's Food Products Company. No. 25,129; Oct. 10.
- "King's." (For Royal Anne Cherries.) King's Food Products Company. No. 25,297; Nov. 14.
- "Kinzie." (For Toilet Paper.) Clinton R. White. No. 24,288; Apr. 25.
- "Kirk's Novelty Soap Doll." (For Soap.) James S. Kirk & Company. No. 24,262; Apr. 25.
- "Kirk's Quick Relief." (For Salve.) F. Kirk. No. 25,075; Oct. 3.
- "Kismet Hair Net." (For Hair Nets.) S. Glemby's Sons Co. No. 24,645; July 4.
- "Kla-Ta-Wa Kleaner." (For a Soft-Soap Vegetable Compound for Cleaning Rugs, Carpets, Painted Surfaces, Shoes, Windows, Automobiles, and for Removing Stains and Spots from Clothing.) L. J. Kretzman. No. 25,040; Sept. 12.
- "Knoll Gardens Products." (For Garden Products.) A. D. Beck. No. 24,987; Sept. 5.

Alphabetical list of labels—Continued.

- "Knut-Kola." (For Nonalcoholic, Maltless, Nonalcoholic Beverages, Containing Less Than One-Half of One Per Cent of Alcohol, by Volume.) Henry H. Ottens Mfg. Co. No. 25,230; Oct. 31.
- "Koffee-O." (For a Cereal Food Drink.) Koffee-O Cereal Co. No. 25,016; Sept. 5.
- "Kof-No-Mor." (For Cough Medicine.) C. Gutkin. No. 25,366; Nov. 28.
- "Korex." (For Soap.) Kendall Products Corporation. No. 24,729; July 18.
- "Krank's Hair-Root-Oil and Lemon Shampoo." (For Boxes Containing a Hair Shampoo and a Hair Dressing.) A. J. Krank. No. 23,903; Jan. 17.
- "Kranks Skin-Health Face Powder." (For Boxes Containing Face Powder.) Alfred J. Krank. No. 24,074; Feb. 14.
- "Kream Krust Bread." (For Bread.) W. Perlmutter. No. 23,973; Jan. 31.
- "Kremola." (For Face Creams.) Dr. C. H. Berry Company. No. 24,293; May 2.
- "La Anfores." (For Cigars.) Antonio Flores. No. 24,165; Mar. 7.
- "La Dasca." (For Cigars, Cigarettes, and Tobacco.) D. A. Schulte, Inc. No. 24,553; June 20.
- "Lady Burbank." (For Spades.) Baldwin Tool Works. No. 25,105; Oct. 10.
- "Lady Esther Four Purpose Cream." (For Face Cream.) S. Cohen. No. 24,630; July 4.
- "Lady Esther Whitener Cream." (For Face Cream.) S. Cohen. No. 24,829; Aug. 8.
- "Lady Jane." (For Hair Nets.) M. Wahl & Son. No. 24,692; July 4.
- "Lady Wear." (For Hair Nets.) Schneider, Battinus & Simon. No. 24,969; Aug. 29.
- "La Gratitud." (For Cigars.) Moehle Lithographic Company. No. 23,916; Jan. 17.
- "La Melda." (For Cigars.) A. Thomas. No. 25,387; Nov. 28.
- "La Mynnette." (For Receptacles Containing Face-Powder Preparations and Also on Combination Vanity and Manicure Sets.) Mynnette Company, The. No. 24,207; Apr. 4.
- "La Napoletana." (For Peeled Tomatoes.) P. Pastene & Co. Inc. No. 24,759; July 25.
- "La Patria." (For Cigars.) Moehle Lithographic Company. No. 23,917; Jan. 17.
- "Lapres' Midget Salt Water Gems." (For Boxes Containing Miniature Salt-Water Taffy.) Theo. J. Lapres, Inc. No. 24,932; Aug. 29.
- "Lasher's." (For All Silk Taffeta Ribbons.) Star Merchandise Company. No. 23,877; Jan. 10.
- "Lasting Lustro The Perfect Polish." (For Autos, Furniture, Leather, Pianos, Victrolas, Etc., as a Cleaning and Polishing Compound.) H. R. F. Co. No. 24,649; July 4.
- "Laurelette." (For Display Cards for Jewelry.) C. J. Fox Company. No. 24,302; May 2.
- "Laxo." (For Bottles or Containers of a Natural Laxative Water.) Guaranteed Products Company. No. 24,066; Feb. 14.
- "Le Duke." (For Cigars.) L. Duke. No. 25,216; Oct. 31.
- "Lemon." (For Containers Containing a Cleansing Cream.) A. J. Krank Mfg. Company. No. 25,369; Nov. 28.
- "Leonard Percale." (For Cotton Piece Goods.) American Printing Company. No. 23,981; Feb. 7.
- "Le Sueur." (For Canned Peas.) Minnesota Valley Canning Co. No. 24,417; May 30.
- "Lefty Penn Nut Bread Home Made." (For Nut Bread.) Edith Eyre. No. 24,245; Apr. 25.
- "Liberty Polish The Perfect Cleaner." (For Metal Polishes.) Scranton Chemical Company. No. 25,346; Nov. 21.
- "Lighthouse Malt Sirup." (For Malt Extracts.) A. Wielich. No. 24,115; Feb. 14.
- "Lighting Drainage." (For a Preparation for Cleaning Drain Pipes.) C. Swanson & Sons. No. 24,022; Feb. 7.
- "Lightnin." (For an Insecticide.) Charleston Drug Mfg. Co. No. 24,696; July 11.
- "Lilliputians." (For a Small Piece of Hard Candy, Similar to a Taffy on a Stick.) Dixon-Miller Co. No. 24,242; Apr. 25.
- "Linen Torchon Fabric Finish." (For Boxes of Stationery, Writing Tablets, Pound Papers, and Envelopes.) White & Wyckoff Mfg. Co. No. 25,025; Sept. 5.
- "Lion Brand." (For Envelopes Containing Hair Nets.) B. Frankel Company. No. 24,640; July 4.
- "Liquid Cherries." (For Candy.) E. A. Hoffman. No. 25,123; Oct. 10.
- "Listening In." (For Motion-Picture Films.) Radio-Films, Inc. No. 24,858; Aug. 8.
- "Littit Automobile Electric Cigar Lighter." (For a Counter Card for Displaying Electric Cigar Lighters.) M. H. Shoenberg. No. 24,605; June 27.
- "Little Cherub Safety Pins." (For Safety Pins.) F. Rees. No. 25,178; Oct. 17.
- "Little Jack Horner." (For Candies, Namely, Kiddie Junior Candies.) Candy Craft, Inc. No. 23,999; Feb. 7.
- "Little Joe." (For Sweet Potatoes.) Pittsburg Storage Company. No. 24,098; Feb. 14.
- "Little Mother's Kidibake." (For Cooking Dishes for Toy Stoves.) George Borgfeldt & Co. No. 24,226; Apr. 25.
- "Little Sweetheart Safety Pins." (For Safety Pins.) F. Rees. No. 25,179; Oct. 17.
- "Live Oak Brand Tomatoes." (For Tomatoes.) North American Fruit Exchange. No. 24,537; June 20.
- "Lofa." (For Bread.) H. V. Walters. No. 24,111; Feb. 14.
- "Loffler's Frankfurt Sausage." (For Sausage.) A. Loffler Provision Co. No. 25,078; Oct. 3.
- "Lola Real Hair Net." (For Hair Nets.) S. Glemby's Sons Co. Inc. No. 24,915; Aug. 29.
- "Lone Star." (For Fresh Grapes.) E. S. Ardzooni. No. 23,951; Jan. 31.
- "Long Branch." (For Saltine Flakes.) Pacific Coast Biscuit Company. No. 24,758; July 25.
- "Long Life Water." (For Mineral Spring Water.) Lazarrowitz and Company, Inc. No. 24,193; Mar. 14.
- "Longwear Laces." (For Laces.) L. & R. Company. No. 25,158; Oct. 17.
- "Look New Simon-1-Polish." (For Bottles of Polish for Silver, Brass, and Other Metals.) I. Simon. No. 24,319; May 2.
- "Lord Baltimore." (For Ginger Ale.) John Z. Schonehoff. No. 24,278; Apr. 25.
- "Lorraine Shirts." (For Shirts.) R. Drew. No. 25,267; Nov. 14.
- "Love Nest." (For Candy.) The Euclid Candy Co. No. 24,783; Aug. 1.
- "Lozenges No. 12 Iothelin." (For Packages Containing a Medicinal Preparation.) The Drug Products Co. Inc. No. 24,781; Aug. 1.
- "Lucky Seller 'I Love You California.'" (For Rhubarb.) A. Levy & J. Zentner. No. 24,795; Aug. 1.
- "Lucky 13." (For Containers of Medicine Used as a Bowel Regulator.) R. D. White. No. 25,024; Sept. 5.
- "Luden's Fruit Candies." (For Candies.) Wm. H. Luden Inc. No. 25,132; Oct. 10.
- "Luden's Spearmint Leaves." (For Candy Confections.) W. H. Luden, Inc. No. 24,585; June 27.
- "Ludlow Twine." (For Boxes Containing Balls of Twine.) Ludlow Manufacturing Association. No. 24,081; Feb. 14.
- "Luna." (For a Toilet Article—Namely, Lemon Cleansing Cream, Cold Cream.) E. J. O'Connor. No. 25,312; Nov. 14.
- "Lustre Soap." (For Soap.) Lustre Chemical Company. No. 25,041; Sept. 12.
- "Luther Burbank." (For Spades.) Baldwin Tool Works. No. 25,211; Oct. 31.
- "Luxury." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 25,164; Oct. 17.
- "M-B." (For Cartons Containing Ice Cream.) Menasha Printing and Carton Company. No. 25,166; Oct. 17.
- "M-H Wennersten's." (For Malt Extracts.) Henning Wennersten Incorporated. No. 24,584; June 27.
- "M. M. R.'s Red Seal Hair Net." (For Hair Nets.) Morris, Mann & Reilly, Inc. No. 24,653; July 4.
- "Macbeth Pearl Glass Nu-Type Chimney." (For Boxes Containing Chimneys.) Macbeth-Evans Glass Company. No. 25,043; Sept. 12.
- "Madagascar." (For a Preparation for the Hair.) W. M. O'Neill. No. 24,539; June 20.
- "Madden's Creeping Cough Syrup." (For Cough Syrup.) Madden's Pharmacy. No. 24,525; June 20.
- "Madden's Pick-Me-Up Tonic." (For Bottles Containing a Tonic.) Madden's Pharmacy. No. 24,455; June 6.
- "Made with the Famous Duro-Knot." (For Hair Nets.) National Trading Company. No. 25,466; Dec. 26.
- "Magic Barnyard." (For an Adhering Wrapper for a Box Containing a Book of Like Title.) Invisible Process Co., The. No. 24,173; Mar. 7.
- "Magic Circus." (For an Adhering Wrapper for a Box Containing a Book of Like Title.) Invisible Process Co., The. No. 24,174; Mar. 7.
- "Magic Hours with Chinky Joe." (For an Adhering Wrapper for a Box Containing a Book of Like Title.) Invisible Process Co., The. No. 24,169; Mar. 7.
- "Magic Medicine." (For Preparations for Kidney, Liver, Bladder, Rheumatism, Blood Impurities, Catarrh, and Asthma.) Madden's Pharmacy. No. 24,204; Apr. 4.
- "Magic Pictures." (For an Adhering Wrapper for a Box Containing a Book of Like Title.) Invisible Process Co., The. No. 24,171; Mar. 7.
- "Magico." (For Packages or Cartons Containing an Insect Extirminator.) Kay & Ess Chemical Company Inc. No. 24,119; Feb. 21.
- "Magnus Malt." (For Malt.) C. C. Tschirgi. No. 25,095; Oct. 3.
- "Mahon's Virgin Fruit Juices." (For Bottles, Cans, or Barrels Containing Virgin Pure Juices of Natural Fruits.) E. T. Mahon. No. 25,306; Nov. 14.
- "Maid-Well." (For Superior White Paste.) C. C. Hatcher. No. 24,786; Aug. 1.
- "Majestic Cambric." (For Cotton Piece Goods.) American Printing Company. No. 23,990; Feb. 7.
- "Maltoat." (For Package Containing Biscuits.) Horlick Maltoat Products Co. No. 24,069; Feb. 14.
- "Maltoid Milk-Bone Puppy Food." (For Dog Biscuits.) F. H. Bennett Biscuit Company. No. 24,714; July 18.

Alphabetical list of labels—Continued.

- "Mauna Bread." (For Bread.) Crouch & Plassman. No. 24,297; May 2.
- "Maple Leaf." (For Cartons for Butter.) Menasha Printing and Carton Company. No. 25,307; Nov. 14.
- "Maple Nut Cake." (For Cake.) Schulze Baking Company. No. 24,891; Aug. 15.
- "Marre." (For Canned Shrimp.) E. Marre & Bro. No. 25,371; Nov. 28.
- "Marsh Big Havana. Wheeling." (For Stogies.) M. Marsh & Son, Inc. No. 24,526; June 20.
- "Marshel's Blue Fountain Pen Ink." (For Packages of Blue Ink.) B. M. Marshel. No. 24,704; July 11.
- "Marshmallow Layer Cake." (For Cake.) Schulze Baking Company. No. 24,890; Aug. 15.
- "Mary's Little Lamb." (For Candies—Namely, Kiddie Junior Candies.) Candy Craft, Inc. No. 24,002; Feb. 7.
- "Mateco." (For Tablets for Tonic.) Stephen R. M. Hoye. No. 24,253; Apr. 25.
- "Mater Seal 2 in 1." (For Auto Tube Patch Outfits.) Fort Harrison Sales Co. No. 24,914; Aug. 29.
- "Matthews' Old Faithful Tea." (For Cartons for Containing Teas of Various Kinds.) Geo. P. Matthews & Co. No. 24,264; Apr. 25.
- "Mavis Malt Extract." (For Malt Extract.) Mavis Products Company. No. 25,340; Nov. 21.
- "Mayer's Constipation Exterminator." (For a Preparation of Medicine Composed of Equal Parts of Onion, Cloves, and Lemon Juice.) E. Mayer. No. 25,079; Oct. 3.
- "Mayonnaise." (For a Dressing for Cold Meats, Fish, Vegetables, Sandwiches, and Salads.) Gold Medal Mayonnaise Co. No. 25,246; Nov. 7.
- "Mejor Manteca Pura de Chicharron." (For Lard.) Joseph Stern & Sons Inc. No. 24,558; June 20.
- "Mella." (For Cigars.) J. Bauhofer. No. 25,411; Dec. 19.
- "Melto." (For Packages Containing Reducing Cream.) B. K. Hartzell. No. 24,918; Aug. 29.
- "Melzer-Naise Mayonnaise Salad Dressing." (For Salad Dressing.) M. T. Melzer. No. 25,464; Dec. 26.
- "Met-Iow." (For Apples.) Wenatchee Okanogan Warehousing Co. No. 24,428; May 30.
- "Michico Grapes." (For Packages Containing Grapes.) Michico Inc. No. 25,342; Nov. 21.
- "Mickelberry's Old Farm Brand." (For Sausage.) Mickelberry's Food Products Co. No. 24,014; Feb. 7.
- "Mid States Brand." (For Rolled Oats.) Mid-States Wholesale Grocers. No. 24,085; Feb. 14.
- "Mi-Lady A Real Hair Net." (For Hair Nets.) Morris, Mann & Reilly, Inc. Nos. 24,945-56; Aug. 29.
- "Mila." (For Boxes, Packages, or Envelopes Containing Hair Nets.) S. Glemby, Inc. No. 24,997; Sept. 5.
- "Mild-O." (For Stogies and Cigars.) Marietta Cigar Company. No. 24,152; Feb. 28.
- "Mile-A-Minute." (For Carbon Remover and Preventer.) Mile-A-Minute, Incorporated. No. 24,652; July 4.
- "Military Foot-Soap." (For Foot Soap.) A. W. Goodreau. No. 23,964; Jan. 31.
- "Milk Maid." (For Bread.) Waxwell Paper Company. No. 24,026; Feb. 7.
- "Milk-Maid Bread." (For Bread.) Fred Glickmann. No. 24,118; Feb. 21.
- "Mills Harvest Bread." (For White Bread.) Mills Baking Company. No. 25,308; Nov. 14.
- "Mim's 3M's Chill & Fever Tonic & Liver Regulator." (For Bottles Containing a Tonic and Liver Regulator.) W. B. Mims. No. 25,428; Dec. 19.
- "Miner's Minstrel Black." (For Chemical Preparation in Paste Form Suitable for Blackening the Skin.) E. H. C. Miner. No. 24,586; June 27.
- "Minnehaha E-Z-Ready Beverage." (For a Dry Compound for a Nonalcoholic Beverage.) Golden Grain Juice Company. No. 25,069; Oct. 3.
- "Minnesota Valley." (For Canned Peas.) Minnesota Valley Canning Co. No. 24,415; May 30.
- "Miracle the World's Greatest Cleaner." (For a Washing Compound.) Columbia Products Company. No. 24,046; Feb. 14.
- "Mistland." (For Strawberries.) Oregon Growers Cooperative Association. No. 25,136; Oct. 10.
- "Mity-Nice." (For Bread Wrappers.) Menasha Printing and Carton Company. No. 23,971; Jan. 31.
- "Mity-Nice." (For Wrappers for Toilet-Paper Rolls.) Anderson Paper & Twine Company. No. 24,868; Aug. 15.
- "Mo-Bil-Bar." (For Shrimp.) Dixie Fruit Products Company. No. 24,241; Apr. 25.
- "Mon-Cheri." (For Candy.) Kellogg Sugar Products Co. No. 24,072; Feb. 14.
- "Montauk." (For Cartons Containing Ice Cream.) Menasha Printing and Carton Company. No. 23,908; Jan. 17.
- "Monument Writing Fluid." (For Inks Known as Writing and Copying Fluid.) A. A. Broshears. No. 24,627; July 4.
- "Moon-Tabs." (For a Pharmaceutical Preparation for the Prevention and Correction of Vaginitis, Leucorrhea, Catarrhal Inflammation, and Bad-Smelling Discharges.) E. J. O'Connor. No. 25,313; Nov. 14.
- "Moore Push-Pins." (For Push Pins.) Moore Push-Pin Company. No. 24,530; June 20.
- "Moore's Single Strand Hair Net." (For Hair Nets.) S. Glemby's Sons Co. No. 25,005; Sept. 5.
- "Moose." (For Trousers.) L. G. Titus. No. 24,323; May 2.
- "Morning Glory." (For Brooms.) Gardner Broom Co. No. 24,506; June 20.
- "Morning Glory." (For Toilet Paper.) Beaver Paper Company. No. 25,212; Oct. 31.
- "Morse's Not All Chocolates." (For Candy.) A. G. Morse Co. No. 25,174; Oct. 17.
- "Moth-Ene." (For a Moth Destroyer.) Den-Wal Manufacturing Company, The. No. 25,392; Dec. 5.
- "Moth K-L." (For a Liquid Preparation for Protection Against Moths.) Moth K-L Company, Incorporated. No. 25,531; June 20.
- "Motor-Kleen." (For a Preparation for Removing Carbon.) Motor-Kleen Corporation. No. 24,356; May 9.
- "Mt. Hood." (For Hops.) A. J. Ray & Son, Inc. No. 24,709; July 11.
- "Mountain Brand." (For Fresh Apples.) Baker & Coe. No. 24,031; Feb. 14.
- "Mountain Grown." (For Apples.) Hood River Canning Company. No. 24,348; May 9.
- "Mrs. Wagner's Famous Home Made Pies." (For Pies.) Wagner Pastry Co., The. No. 24,125; Feb. 21.
- "Murray's Fragrant Cream Violet for Beautifying The Complexion." (For 25¢, 35¢, and 50¢ Size Bottles Containing a Preparation for Beautifying the Complexion.) E. L. Murray. No. 24,731; July 18.
- "Murray's Preparations." (For Medicines for External Use, Especially Liniment.) W. J. Murray. No. 25,228; Oct. 31.
- "Murr's Cleaner." (For Cans and Packages Containing a Cleaning Preparation.) Murr Chemical Company. No. 25,080; Oct. 3.
- "Musical Health Builder The 'Daily Dozen.'" (For Phonograph Records.) R. B. Wheelan. No. 23,881; Jan. 10.
- "My Own." (For Waffle and Pancake Flour.) Blair Milling Company. No. 25,111; Oct. 10.
- "My Sweetie." (For Candies.) Max Glick Company. No. 24,340; May 9.
- "My-T-Klean Metal Cleaner." (For Metal Polish.) Arthur M. Mann. No. 24,150; Feb. 28.
- "My-T-Klean Washing Compound." (For Washing Powder.) Arthur M. Mann. No. 24,177; Mar. 7.
- "Myro." (For Hair Nets.) S. Glemby's Sons Co. Inc. No. 24,917; Aug. 29.
- "N." (For Receptacles Containing Apples.) F. E. Nellis. No. 25,031; Oct. 3.
- "Nash's Delicious Guaranteed Quality Coffee." (For Coffee.) Nash Coffee Company. No. 24,270; Apr. 25.
- "Nat-Co-Hol." (For Bottles Containing First National Bathing Alcohol, Which is a Combination of Medicated Alcohol for Bathing or Massaging.) First National Laboratories. No. 25,188; Oct. 24.
- "National Brown Package." (For Assorted Chocolates.) National Drug Stores Corp. No. 24,272; Apr. 25.
- "National Crest." (For Coffee.) Geo. W. Caswell Co. No. 23,891; Jan. 17.
- "National Ivorywhite." (For Tooth Paste.) National Drug Stores Corp. No. 24,153; Feb. 28.
- "Native." (For Canned Pineapple.) Henry P. Baldwin. Limited. No. 23,995; Feb. 7.
- "Natural Foods of California" Carqué." (For Black Mission Figs.) Carqué Pure Food Company. No. 24,043; Feb. 14.
- "Neet." (For a Cream Hair Remover and Depilatory.) Hannibal Pharmaceutical Company. No. 25,284; Nov. 14.
- "Nek-Ritz's Iron Lustre." (For a Stove Gloss Preparation.) L. Nekritz. No. 24,532; June 20.
- "Nell Brinkley Hair Wavers." (For Hair Wavers.) Hayes-Meserole Mfg. Co. No. 25,247; Nov. 7.
- "Neptune." (For Hosiery.) Freedman & Co. No. 24,139; Feb. 28.
- "Never-Rip." (For Boxes Containing Work Shirts.) Oelbaum Bros. & Bauer. No. 25,229; Oct. 31.
- "New England Bread." (For Bread.) Newark Paraffine & Parchment Paper Co. No. 23,928; Jan. 17.
- "New Ideal." (For Cigars.) B. Lockett. No. 24,796; Aug. 1.
- "Nicomors." (For Chewing Gum.) Nicomors Products Co. No. 24,178; Mar. 7.
- "Nielsen's Havana." (For Cigars.) Chas. J. Nielsen's Sons. No. 24,420; May 30.
- "No Joke." (For Oranges.) Philip J. Langford. No. 24,075; Feb. 14.
- "Noaker's Velvet Ice Cream." (For Cartons Containing Ice Cream.) Menasha Printing and Carton Company. No. 25,168; Oct. 17.
- "None Such Bread." (For Bread.) Dragon Paper Mfg. Co. No. 24,442; June 6.
- "North East Service Parts." (For Miscellaneous Electrical Apparatus and Separate Parts Thereof.) North East Electric Company. No. 25,197; Oct. 24.
- "Northern Bear." (For a Wrapper for Toilet-Paper Rolls.) Northern Paper Mills. No. 24,662; July 4.
- "Northern Cabinet Tissue." (For a Wrapper for Packages of Toilet Paper.) Northern Paper Mills. No. 24,660; July 4.
- "Northern Seal." (For Furs and Skins.) A. Pierini. No. 24,856; Aug. 8.
- "Northern Tissue." (For a Wrapper for Toilet Paper Rolls.) Northern Paper Mills. No. 25,133; Oct. 10.
- "Northern Woolen Company." (For Woolens.) H. K. Grinager. No. 25,191; Oct. 24.

- "Northrup, King & Co. Seed Corn." (For Bags of Seed Corn.) Northrup, King & Co. No. 24,091; Feb. 14.
- "Null." (For a Preparation for Checking Perspiration.) Sheffield Pharmaceutical Co. No. 24,896; Aug. 15.
- "Numaid." (For Hosiery.) Mammoth Hosiery Mills. No. 24,798; Aug. 1.
- "Nuradium." (For a Medicinal and Pharmaceutical Preparation Consisting of Minute Particles of Radium Combined with Other Medicinal and Therapeutic Ingredients to Form Nuradium. Nuradium Company. No. 24,538; June 20.
- "Nut Meal Loaf." (For a Loaf of Food Product.) L. W. Hardy. No. 25,192; Oct. 24.
- "Nut Roll Moonshine Minnie." (For Candy.) Friedman-Kerr Co. No. 24,443; June 6.
- "Nutty Ruff." (For Boxed Chocolates.) Premier Candy Co. No. 25,431; Dec. 19.
- "Nuxo Tonique." (For Medicines for Blood Stimulation and the Treatment of Nervous Disorders.) G. H. Rivera. No. 25,822; Nov. 14.
- "Nyle Printed Pongee." (For Cotton Piece Goods.) American Printing Company. No. 25,988; Feb. 7.
- "O. K. Eto Crisps." (For Health Wafers.) Jern Food Company. No. 24,650; July 4.
- "O-Mi Fudge." (For Boxes Containing Candy.) W. E. Humphrey Co. No. 25,248; Nov. 7.
- "Oest's." (For Mince-meat.) Oest Fruit Company. No. 25,254; Nov. 7.
- "Official Record Alpha Tau Omega." (For Phonograph Records.) University Records Corporation. No. 25,471; Dec. 26.
- "Official Record Delta Kappa Epsilon." (For Phonograph Records.) University Records Corporation. No. 25,470; Dec. 26.
- "Official Record Delta Tau Delta." (For Phonograph Records.) University Records Corporation. No. 25,351; Nov. 21.
- "Official Record Delta Upsilon." (For Phonograph Records.) University Records Corporation. No. 25,350; Nov. 21.
- "Official Record Kappa Alpha." (For Phonograph Records.) University Records Corporation. No. 25,469; Dec. 26.
- "Official Record Phi Gamma Delta." (For Phonograph Records.) University Records Corporation. No. 25,353; Nov. 21.
- "Official Record Sigma Alpha Epsilon." (For Phonograph Records.) University Records Corporation. No. 25,352; Nov. 21.
- "Ogle's Itch and Eczema Cure." (For Ogle's Itch and Eczema Cure.) D. S. Ogle. No. 25,134; Oct. 10.
- "Oh! Sweetie." (For Candy.) Englewood Candy Mfg. Co. No. 24,503; June 20.
- "Ohio." (For Malt Extract.) Lee M. Hirschler. No. 24,839; Aug. 8.
- "Oilzwell." (For Oil.) Washington Accessories Co. No. 25,388; Nov. 28.
- "Old Holland." (For Malt Extract.) L. M. Hirschler. No. 24,841; Aug. 8.
- "Old Home Bread." (For Wax-Paper Bread Wrappers.) Menasha Printing and Carton Company. No. 24,528; June 20.
- "Old Mother Hubbard." (For Candies—Namely, Kiddie Junior Candies.) Candy Craft, Inc. No. 24,001; Feb. 7.
- "Old Style Purest & Best Malt Extract." (For Malt Extracts.) Old Style Malt Extract Co. No. 24,757; July 25.
- "Old Taylor." (For Cantaloupes.) The J. L. Taylor Co. No. 24,815; Aug. 1.
- "Old Virginia Brunswick Stew." (For Canned Old Virginia Brunswick Stew.) F. Sturdivant. No. 24,736; July 18.
- "Olde Harlem." (For Boxes of Stationery and Writing Tablets.) White & Wyckoff Mfg. Co. No. 24,374; May 9.
- "Omez." (For Gland Tablets.) Omez Pharmacal Co. No. 25,429; Dec. 19.
- "On the trail of a Good Tire." (For Vehicle Tires, Being Applied to the Boxes or Packages Containing the Same.) Ideal Tire and Rubber Company. No. 24,726; July 18.
- "One For Five 1-4-5." (For Hair Nets.) S. S. Kresge Co. No. 25,304; Nov. 14.
- "\$1000.00 Guaranteed Auto Glo." (For Cans, Cartons, and Cases Containing an Automobile and Wood Polish.) B. Heller & Company. No. 25,462; Dec. 26.
- "\$1000.00 Guaranteed Contento Exterminator." (For Bottles or Cans Containing a Specific for Crab Lice, Head Lice, Body Lice, Chiggers, and Itch Mites.) B. Heller & Co. No. 25,463; Dec. 26.
- "\$1000.00 Guaranteed Contents." (For Carton for Inclosing a Remedy for the Eradication of Head Lice, Body Lice, Crab Lice, and Other Body Vermin.) B. Heller & Company. No. 24,920; Aug. 29.
- "1000.00 Guaranteed Enamel Cleaner." (For Cans, Cartons, Packages, Boxes, and Cases Containing a Cleaning Powder for Enamel Ware.) B. Heller & Company. No. 25,447; Dec. 26.
- "\$1000.00 Guaranteed Flea Killer." (For Receptacles containing an Insecticide Preparation for Killing Fleas.) B. Heller & Company. No. 25,450; Dec. 26.
- "\$1000.00 Guaranteed Golden Gloss Shine." (For Receptacles and Containers Containing a Metal Polish.) B. Heller & Company. No. 25,445; Dec. 26.
- "\$1000.00 Guaranteed Moth Killer." (For Cans Containing an Insecticide Preparation for Killing Moths and Carpet Beetles.) B. Heller & Company. No. 25,448; Dec. 28.
- "\$1000.00 Guaranteed Odorless Moth Powder." (For Cans or Cases Containing a Powdered Preparation for Killing Moths.) B. Heller & Company. No. 25,458; Dec. 26.
- "\$1000.00 Guaranteed Ozo Toilet Cleaner." (For Cans, Boxes, or Cases Containing a Toilet-Bowl or Privy Cleaner.) B. Heller & Company. No. 25,460; Dec. 26.
- "\$1000.00 Guaranteed Ozo Waste Pipe Opener." (For Receptacle Containing \$1000.00 Guaranteed Ozo Waste-Pipe Opener, a Preparation for Opening Stopped-up Pipes.) B. Heller & Company. No. 24,922; Aug. 29.
- "\$1000.00 Guaranteed Roach Killer." (For Cases and Cartons for Inclosing an Insecticide Preparation for Killing Roaches.) B. Heller & Company. No. 25,457; Dec. 26.
- "\$1000.00 Guaranteed Silver Polish." (For Cans Containing \$1000.00 Guaranteed Silver Polish, a Dry-Powder Polish.) B. Heller & Company. No. 24,921; Aug. 29.
- "\$1000.00 Guaranteed Window Cleaner." (For Cans, Boxes, or Cases Containing a Powdered Preparation Used for Cleaning Glass.) B. Heller & Company. No. 25,446; Dec. 26.
- "\$1000.00 Guaranteed Zanzibar-Brand Fly Chaser." (For Bottles, Cans, Cases, and Cartons Containing an Insecticide Preparation for Repelling Flies from Animals.) B. Heller & Company. No. 25,452; Dec. 26.
- "Optimo Made From Hard Turkey Wheat." (For Sacks Containing Flour.) Preston Milling Co. No. 25,432; Dec. 19.
- "Ora-Solis." (For a Dental Wash and Astringent Valuable Aid in the Prevention of Pyorrhea Alveolaris, Receding and Bleeding Gums.) John A. Anderson. No. 23,994; Feb. 7.
- "Orange Blossom Marmalade." (For Orange Marmalade.) Lake Yale Orange Company. No. 24,930; Aug. 29.
- "Orange Sunshine." (For a Nonalcoholic Beverage.) Sage Brothers Company. No. 25,050; Sept. 12.
- "Oraseptine." (For a Fragrant Antiseptic Mouth Wash, Dentifrice, Gargle, and Douche.) Allied Drug and Chemical Corporation. No. 24,431; June 6.
- "Orchid." (For Grapes.) R. Krasnow & Sons, Inc. No. 24,847; Aug. 8.
- "Oregon Brand." (For Evaporated Unsweetened Milk.) Oregon Milk Company. No. 25,138; Oct. 10.
- "Oregon Brand Milk." (For Evaporated Unsweetened Milk.) Henningen Produce Company. No. 24,837; Aug. 8.
- "Original Bond Extract." (For Bottles Containing Non-alcoholic Beverages.) J. W. Bond. No. 23,997; Feb. 7.
- "Original Clarks Sealark Mayonnaise." (For Mayonnaise.) Clark Bro. & Co. Inc. No. 25,029; Sept. 12.
- "Original Puss in Boot." (For Felt Boots or Slippers.) Federal Slipper Co. Inc. No. 24,004; Feb. 7.
- "O-So-Clean." (For Cleaning White-Enamel Woodwork, Porcelain, Marble, Glass, etc.) Universal Products Co. No. 24,324; May 2.
- "Our Business Reputation." (For Cigars.) Gus Neuwahl. No. 23,927; Jan. 17.
- "Ovotone." (For Endocrine Gland Tablets.) Dr. J. M. Abelio. No. 24,481; June 20.
- "Owl Brand Malt Syrup." (For Glass Bottles, Cans, Tins, and Any Other Receptacles Containing Said Malt Syrup.) A. Hollis. No. 24,924; Aug. 29.
- "Owl Crepe." (For Toilet Paper, Paper Napkins, Paper Towels and Paper Tablecloths.) Fort Howard Paper Company. No. 23,897; Jan. 17.
- "P. D. Corn Remedy." (For an Envelope for Corn Plasters.) Cleveland Pharmacal Co. No. 24,233; Apr. 25.
- "P. M. F." (For Artificial Mineral Water.) C. M. Street. No. 25,094; Oct. 3.
- "P S G Co. Stove Gloss." (For a Stove Gloss Preparation.) J. L. Nekritz. No. 24,655; July 4.
- "Padlocks." (For Padlocks.) E. T. Fraim Lock Company, The. No. 24,166; Mar. 7.
- "Padu Knit." (For Hosiery.) Paducah Hosiery Mills, Inc. No. 24,540; June 20.
- "Pain's Saluting The Flag." (For Fireworks, and More Particularly on Boxes and Wrapper in Which Said Fireworks are Packed.) H. J. Pain. No. 25,020; Sept. 5.
- "Palmas Altas Golden Sheaf." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 24,942; Aug. 29.
- "Pal-a-table." (For Grapefruit.) A. Roren. No. 24,424; May 30.
- "Palatable Tablets Vita Yeast." (For Packages Containing a Food Tonic.) Drug Products Co. No. 24,499; June 20.

Alphabetical list of labels—Continued.

- "Palatable Granules Vita-Yeast." (For Packages Containing a Food Tonic.) Drug Products Co. No. 24,500; June 20.
- "Panama Punch." (For a Beverage.) Hay's Fruit Juice Co. No. 25,038; Sept. 12.
- "Pandora Hand Lotion." (For a Hand Lotion.) B. W. Cook. No. 25,264; Nov. 14.
- "Pantry Brand." (For Canned Peaches.) American Cone and Pretzel Company. No. 25,404; Dec. 19.
- "Paperbrella." (For Umbrellas.) O. Kean and A. R. Wilson. No. 23,902; Jan. 17.
- "Pappoose." (For Receptacle Containing Salt.) Ohio Salt Co. No. 25,344; Nov. 21.
- "Paradise." (For Early June Peas.) South Chicago Wholesale Grocery and Produce Co. No. 25,203; Oct. 24.
- "Paradise Chocolates and Bon Bons." (For Candles.) Loft, Inc. No. 23,905; Jan. 17.
- "Paramount." (For Salad Dressing.) Hirsch Bros. & Co. Incorporated. No. 24,347; May 9.
- "Parasilk." (For Toilet Paper.) Paper Specialty Company. No. 24,670; July 4.
- "Pasier's Products." (For Beet Catsup.) Michael A. Pasier. No. 23,929; Jan. 17.
- "Pat" Wheelan's Musical Weight Reducer." (For Phonograph Records.) R. B. Wheelan. No. 25,355; Nov. 21.
- "Patrick's Mentho-Mustard." (For Ointment.) J. K. Patrick. No. 24,314; May 2.
- "Pauline Porters Solid-I-Fyd Coconut Oil." (For a Shampoo Preparation of Coconut and Olive Oil.) Pauline Porter, Inc. No. 125,177; Oct. 17.
- "Pax Carbon Paper." (For Boxes for Shipping Carbon Paper.) American Lead Pencil Company. No. 25,243; Nov. 7.
- "Peachblade." (For a Spread or Jam for Bread, Toast, and Muffins.) Welch Grape Juice Company. No. 25,207; Oct. 24.
- "Peacock." (For Rolled Oats.) Albers Bros. Milling Co. No. 24,823; Aug. 8.
- "Pearl." (For Cigars.) Moehle Lithographic Company, The. No. 23,921; Jan. 17.
- "Pee-Kay." (For a Sirup for Making Soft Drinks.) P. Kolbe. No. 24,523; June 20.
- "Peerless." (For Bread.) Waxtwell Paper Company. No. 24,024; Feb. 7.
- "Peg O' Me Heart." (For a Game of Solitaire.) L. Blatz. No. 24,989; Sept. 5.
- "Peggy." (For Envelopes Containing Hair Nets.) E. Frankel Company. No. 24,639; July 4.
- "Pen-Jel." (For a Powdered Substance Consisting of Pectin and Acidified Sugar, a Quick Jelly Making Material.) Pennsylvania Sugar Company. No. 24,677; July 4.
- "Penick." (For Sirup.) Penick & Ford, Ltd. Nos. 25,315-17; Nov. 14.
- "Pepsin and Rhubarb Bosque." (For a Remedy for Dyspepsia and Indigestion.) A. C. Bosque. No. 24,035; Feb. 14.
- "Pepsina y Rhubarbo Bosque." (For a Remedy for Dyspepsia and Indigestion.) A. C. Bosque. No. 24,034; Feb. 14.
- "Pepsol." (For Receptacles Containing Tooth Paste.) J. J. Blackman. No. 24,032; Feb. 14.
- "Perfect Bread." (For Bread.) Perfect System Bakeries. No. 24,423; May 30.
- "Perfecta Human Hair Nets." (For Hair Nets.) New York Merchandise Company. No. 24,154; Feb. 28.
- "Perfection." (For Bread.) Waxtwell Paper Company. No. 24,028; Feb. 7.
- "Perfection Healing and Soothing Compound." (For Jars and Packages of Medicinal Salve.) T. Desapio. No. 25,030; Sept. 12.
- "Permacrease." (For Packages Containing Permacrease, a Celluloid Glue.) C. J. Gregory. No. 24,451; June 6.
- "Peter Rabbit and His Animal Friends." (For Animal Cookies and Crackers.) Fred W. Albrecht Grocery Co. No. 24,220; Apr. 25.
- "Petit Bouquet." (For Cigars.) Moehle Lithographic Company, The. No. 23,919; Jan. 17.
- "Petrol." (For a Hair Tonic.) R. Odell & Sons Company. No. 25,083; Oct. 3.
- "Petrolagar." (For a Remedy for Constipation.) Deshell Laboratories Inc. No. 24,912; Aug. 29.
- "Petit-coulette." (For a Protective Undergarment for Women.) Solvos Company. No. 24,557; June 20.
- "Phillipsborn's Congratulations! To the Sweetest Baby in the World." (For Infants' Layettes.) Phillipsborn's, Inc. No. 25,430; Dec. 19.
- "Phospho." (For Nut-Brown Meal.) Phospho Food Co. Inc. No. 24,761; July 25.
- "Phospho-Dine." (For a Preparation for the Treatment of General Debility, Anemia, Lack of Nervous Tone, Faulty Development of Bony Tissues and Early Tuberculosis with Advantage.) Haria Brothers. No. 23,869; Jan. 10.
- "Photoplan Paper." (For Label for Said Paper.) Williams, Brown & Earle, Inc. No. 24,819; Aug. 1.
- "Phytamin." (For a Food Product.) Phytamin Corporation, The. No. 24,121; Feb. 21.
- "Pickaninny Freeze Eat Seeds 'n All." (For Ice Cream or Analogous Confections, and More Particularly in the Form of Individual Frozen Dainties.) Pickaninny Freeze Company of America. No. 24,543; June 20.
- "Picture-Plex." (For Educational Tracing and Duplicating Apparatus.) Picture-Plex Corp. No. 25,199; Oct. 24.
- "Pie-Zest." (For Cans, Packages, Boxes, and Cases Containing a Flavoring Compound Composed of a Combination of Various Spices.) B. Heller & Company. No. 25,456; Dec. 26.
- "Pierrette." (For Boxes of Stationery.) White & Wyck-off Mfg. Co. No. 24,329; May 2.
- "Pilgrim." (For Sugar-Cured Ham.) Mission Provision Company. No. 25,309; Nov. 14.
- "Pimientillo." (For Tomatoes.) Bryant Produce Company. No. 24,869; Aug. 15.
- "Pineland." (For Apples.) Spokane Valley Growers Union. No. 24,764; July 25.
- "Pink Lady Hair Net." (For Hair Nets.) S. Glemby's Sons Co. No. 25,003; Sept. 5.
- "Play Ball." (For Games.) I. Prince. No. 24,672; July 4.
- "Play Teddy's Multiplication Game It Multiplies Your Abilities." (For Playing Cards.) Teddy Multiplication Game Company, The. No. 24,126; Feb. 21.
- "Playa Cloth." (For Men's, Boys', and Young Men's Outer Garments—Namely, Overcoats and Suits.) Everett Heaney & Co. No. 25,419; Dec. 19.
- "Plaza Ponge." (For Cotton Piece Goods.) American Printing Company. No. 23,980; Feb. 7.
- "Pleasant Valley Farms' Brand Evaporated Milk." (For Cans Containing Unsweetened Evaporated Milk.) Pleasant Valley Farms and Morey Condensery Company. No. 24,960; Aug. 29.
- "Ploughman." (For Cigars.) Pumpelly-Howe Company. No. 24,362; May 9.
- "Polarnut Pie." (For Confectionery.) Barthel & Martin. No. 25,408; Dec. 19.
- "Polly Bread." (For Bread.) Dragon Paper Mfg. Co. No. 24,498; June 20.
- "Polo Brand." (For Men's and Women's Sweaters.) Clawson & Wilson Company. No. 24,398; May 30.
- "Ponce de Leon Fountain of Health." (For Medicines for the Nervous Diseases.) G. H. Rivera. No. 25,049; Sept. 12.
- "Poppy Brand Extra Choicest Basket Fired Japan Tea." (For Tea.) Mutual Supply Co. No. 24,881; Aug. 15.
- "Po-Re-Ko." (For Receptacles Containing Comestibles, Including Prepared Grapefruit.) H. L. Sherman. No. 24,812; Aug. 1.
- "Pork-Oreno." (For Containers for Fishing Bait.) J. R. Cunningham. No. 24,833; Aug. 8.
- "Portola." (For Sardines.) K. Hoveden Co. Nos. 24,788-90; Aug. 1.
- "Prada Sunbeam Polish." (For a Polish for Pianos, Furniture, Floors, Enamel Beds, Automobiles, and All Varnished and Enamel Surfaces.) J. E. Prada. No. 24,464; June 6.
- "Premier Malt Extract." (For Malt Extract.) Albert Wielich. No. 24,388; Mar. 7.
- "Prepared Mustard." (For Prepared Mustard.) Lantz Bros. Baking Co. No. 24,012; Feb. 7.
- "Prescription Dr. Veribrite." (For Candy—Namely, Jelly Beans.) National Candy Co. No. 25,311; Nov. 14.
- "Presto! Jell." (For Gelatine.) E. C. Rich, Inc. No. 24,195; Mar. 14.
- "Pride of Georgia Sweets." (For Crates and Other Receptacles Used in Shipping Selected Sweet Potatoes.) Planters Products Company. No. 24,315; May 2.
- "Prima." (For Barley-Malt Extract.) Primalt Products Co. No. 24,706; July 11.
- "Prima." (For Ginger Ale.) Primalt Products Co. No. 24,707; July 11.
- "Primrose Silks." (For Silks.) Primrose Silk Stores, Inc. No. 24,361; May 9.
- "Princess Charming." (For Perfume, Toilet Water, Face Powder, and Talcum Powder.) Harriet Hubbard Ayer. No. 24,620; July 4.
- "Principally from Sage Blossoms." (For Honey.) W. P. Southworth. No. 24,813; Aug. 1.
- "Pullman Bread." (For Wax-Paper Bread Wrappers.) Menasha Printing and Carton Company. No. 25,377; Nov. 28.
- "Pulmosan." (For a Compound Bottled by the Pulmosan Company.) Pulmosan Company. No. 23,930; Jan. 17.
- "Pulvoids No. 386 Isote." (For Packages Containing a Medicinal Preparation.) The Drug Products Co. Inc. No. 24,782; Aug. 1.
- "Puncher De Luxe." (For Boxes Containing Cigars.) S. Goldberg & Company. No. 24,647; July 4.
- "Pure Gold Brand Creamery Butter." (For Cartons Serving as a Container for Butter.) Campbell Paper Box Company. No. 24,908; Aug. 29.
- "Pure Gold Sweet Corn." (For Sweet Corn.) G. H. Allen. No. 25,260; Nov. 14.
- "Pure Honey." (For Honey.) S. F. Von Schuetz. No. 24,766; July 25.
- "Pure Silk." (For Hosiery.) Non-Rip Silk Hosiery Mills Inc. No. 24,732; July 18.

- "Porex." (For Containers Containing a Medicine—Namely, Mackenzie Regulators.) G. H. Guy. No. 24,452; June 6.
- "Puritan." (For Cartons Containing Ice Cream.) Menasha Printing and Carton Company. No. 23,913; Jan. 17.
- "Purity Brand Domestic Malt Extract Dark." (For Extracts for Beverage Purposes.) Purity Malt Extract Co. No. 23,933; Jan. 17.
- "Purity Brand E. Z. Brew." (For Extracts for Beverage Purposes.) Purity Malt Extract Co. No. 23,932; Jan. 17.
- "Purity Brand Oregon Hops." (For Hops.) Purity Malt Extract Co. No. 23,931; Jan. 17.
- "Purple Feather." (For a Wrapper for Toilet-Paper Rolls.) Northern Paper Mills. No. 24,664; July 4.
- "Purveyor." (For Peas.) Standard Purveyors, Inc. No. 25,327; Nov. 14.
- "Put and Take All Rubber Patch." (For an All-Rubber Patch for Mending Automobile Tire, Inner Tubes, or Other Articles Made of Rubber or Fabric.) Put and Take Co. No. 24,544; June 20.
- "Putt-Putt Golf Game." (For a Game Apparatus.) Putt-Putt Co. No. 24,594; June 27.
- "Pyramid Malt Extract." (For Malt Extracts.) A. Wielich. No. 24,429; May 30.
- "Pyrolac Pyorrhea Remedy." (For Tooth Paste.) Marson Medicine Co. No. 25,018; Sept. 5.
- "Quail Load." (For Loaded Shot Shells.) Remington Arms Company. No. 24,471; June 6.
- "Quality Crepe." (For a Wrapper for Toilet-Paper Rolls.) Northern Paper Mills. No. 25,175; Oct. 17.
- "Queen." (For Cartons of Japanese Hull-less Popcorn.) Northrup, King & Co. No. 24,756; July 25.
- "Queen Bess." (For Sirupy Extract.) C. L. Beardsley. No. 23,996; Feb. 7.
- "Rabbit Load." (For Loaded Shot Shells.) Remington Arms Company. No. 24,470; June 6.
- "Radio Hair Net." (For a Hair-Net Envelope.) E. M. Humphreys. No. 25,288; Nov. 14.
- "Radiograms." (For Motion-Picture Films.) Radiograms, Inc. No. 24,859; Aug. 8.
- "Rainbow Prints." (For Cotton Piece Goods.) American Printing Company. No. 23,885; Jan. 17.
- "Raisin Cake." (For Cake.) Schulze Baking Company. No. 24,888; Aug. 15.
- "Ralph Dughee." (For Cigars.) Jose Aguilo. No. 24,129; Feb. 28.
- "Rancho Leñoso." (For Fresh Pears.) J. C. Knowles. No. 25,157; Oct. 17.
- "Rarebit Way." (For Cartons Containing Peanut Butter.) Walter J. Hirsch Company. No. 24,250; Apr. 25.
- "Rasberilade." (For a Spread or Jam for Bread, Toast, and Muffins.) Welch Grape Juice Company. No. 25,206; Oct. 24.
- "Rasmussen." (For Paint.) Rasmussen & Co. No. 25,318; Nov. 14.
- "Rasmussen." (For Varnishes and Japans.) Rasmussen & Co. No. 25,319; Nov. 14.
- "Re-Nown Hair Net." (For Hair Nets.) York Import Company. No. 24,214; Apr. 4.
- "Real Flax Dew Bleach." (For Handkerchiefs.) Wyman, Partridge & Co. No. 24,568; June 20.
- "Realgood." (For Hosiery.) Realgood Corporation. No. 24,673-4; July 4.
- "Real-Lager." (For a Cereal Beverage.) Oertel Co. Incorporated. No. 24,705; July 11.
- "Real Silk Fashioned Hosiery." (For Containers for Hosiery.) Real Silk Hosiery Mills. No. 24,465; June 6.
- "Real Silk Hose." (For Containers of Hosiery.) Real Silk Hosiery Mills. No. 23,934; Jan. 17.
- "Real Silk Hose." (For Containers for Hose.) Real Silk Hosiery Mills. No. 24,810; Aug. 1.
- "Real Silk Super-Service Socks." (For Hose.) Real Silk Hosiery Mills. Nos. 24,883-4; Aug. 15.
- "Recharge." (For Chemical Heaters.) Constant Heat Pack Corporation. No. 24,832; Aug. 8.
- "Red Devil Rat and Mouse Embalmer." (For Rat Poison.) T. A. Hargrave. No. 25,008; Sept. 5.
- "Red Head." (For Apples.) Northern Fruit Company. No. 24,805; Aug. 1.
- "Red Poppy." (For a Wrapper for Toilet-Paper Rolls.) Northern Paper Mills. No. 24,658; July 4.
- "Red Riding Hood." (For Candies—Namely, Kiddie Junior Candies.) Candy Craft, Inc. No. 24,000; Feb. 7.
- "Red Seal." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 24,352; May 9.
- "Red Seal." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 25,159; Oct. 17.
- "Red Seal Chlorinated Lime." (For Cans Containing the Same.) P. C. Tomson & Co. No. 23,946; Jan. 17.
- "Red Triangle." (For Noodles.) David F. Jue & Co. No. 24,791; Aug. 1.
- "Regina." (For Boxes, Packages, or Envelopes Containing Hair Nets.) S. Glenby, Inc. No. 25,001; Sept. 5.
- "Reouri Tooth Paste." (For Tooth Paste.) H. N. Cregar. No. 24,449; June 6.
- "Reinder Mills." (For Hose.) Seaboard Lithographing Co. No. 25,435; Dec. 19.
- "Remington Cutlery." (For Cutlery.) Remington Arms Company. No. 24,545; June 20.
- "Removes Grease And Grime In Double-Quick Time." (For Hand Soap.) Chas. W. Young & Co. No. 25,403; Dec. 5.
- "Repairo." (For Cans in Which Rubber Repairing Outfits are Sold.) Repairo Company. No. 25,433; Dec. 19.
- "Requa's Queen Chop." (For Tea.) Requa Bros. No. 25,256; Nov. 7.
- "Research." (For Motor Oil.) Nebraska Buick Auto Co. No. 24,460; June 6.
- "Research Brand." (For Parking Lamps.) Research Club Inc. No. 24,101; Feb. 14.
- "Research Brand." (For Retouching Enamel.) Research Club, Inc. No. 24,274; Apr. 25.
- "Revelation." (For Apples.) John A. Eck Co. No. 24,059; Feb. 14.
- "Revelation." (For Cantaloupes.) John A. Eck Co. No. 24,058; Feb. 14.
- "Rexblu." (For Washing Tablets in Powdered Form.) Stevens-Wiley Manuf. Co. No. 24,559; June 20.
- "Rey De La Barba." (For Boxes and Cans Containing Cigars.) Rey de la Barba Cigar Co. No. 24,547; June 20.
- "Richland." (For Royal Anne Cherries.) Oregon Growers Cooperative Association. No. 25,137; Oct. 10.
- "Richman's Straight Cut." (For Cigars.) Gray-Richman-Juergens Co. No. 25,222; Oct. 31.
- "Richmond Maid." (For Baking Powder.) The Laird Manufacturing Co. Inc. No. 24,754; July 25.
- "Rich's Gelatin Wine Jelly." (For Gelatine.) E. C. Rich, Inc. No. 24,102; Feb. 14.
- "Rick-A-Tone." (For a Preparation for the Treatment of Tuberculosis, Faulty Development of the Bony Tissues. It is an Effective Nutritive and Tonic Reconstructive.) Ilaria Bros. No. 23,868; Jan. 10.
- "Rida Piles." (For Tin Boxes Containing Salve or Ointment of Drugs Compounded for Eczema and Piles.) W. Nye. No. 25,082; Oct. 3.
- "Rio Grande." (For Cigars.) J. Bauhofer. No. 25,409; Dec. 19.
- "Rite-Tone Tubephone." (For Musical Instruments.) The Playatone Co. No. 24,593; June 27.
- "Riverdale." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 25,167; Oct. 17.
- "Rode Tite." (For Waterproofing Plastic Compositions, for Roads and Cement Constructions.) H. A. Gardner. No. 25,064; Oct. 3.
- "Rode Wite." (For Waterproofing Plastic Compositions for Roads and Cement Constructions.) H. A. Gardner. No. 25,065; Oct. 3.
- "Rogue River Valley Fruit Crater Lake Brand." (For Packages Containing Fresh Deciduous Fruits.) C. A. Knight. No. 24,753; July 25.
- "Rohlfing's 5¢ Special." (For Cigars.) O. A. Rohlfing. No. 25,180; Oct. 17.
- "Roll Your Label Troubles Away." (For Gummed Labels in Rolls.) Eastern Pin Ticket & Tag Co. No. 24,337; May 9.
- "Rolly's Wonder." (For Complexion Soap.) Rolly Chemical Co. No. 24,549; June 20.
- "Roofing." (For Prepared Roofing.) Flintkote Company. No. 23,963; Jan. 31.
- "Rose Bud Brand Extra Fancy Basket Fired Japan Tea." (For Tea.) Mutual Supply Co. No. 24,880; Aug. 15.
- "Royal." (For Cartons Containing Oleomargarine.) Menasha Printing and Carton Company. No. 25,465; Dec. 26.
- "Royal." (For Salmon.) Macleay Estate Co. No. 24,703; July 11.
- "Royal Brand Quality Mayonnaise." (For Bottled Mayonnaise.) O. O. Cozad. No. 25,185; Oct. 24.
- "Royal Club." (For Ginger Ale.) Geo. A. Davis Co. No. 25,214; Oct. 31.
- "Royal Juliet." (For Cigars.) R. Landman. No. 24,524; June 20.
- "Royal Make." (For Footwear.) The Royal Footwear Co. No. 24,211; Apr. 4.
- "Royal Special Hair Grower." (For Containers of Hair Preparation.) Mrs. V. Dickson. No. 25,215; Oct. 31.
- "Royal Taste." (For Coffee.) Sibley-Almy Co. No. 24,106; Feb. 14.
- "Royall's French Dressing." (For Bottles Containing Salad Dressing.) Clivill Food Products, Inc. No. 24,492; June 20.
- "Rossmore." (For Cigars.) Chas. J. Nielsen's Sons. No. 24,419; May 30.
- "Routledge." (For Bird Remedies.) Routledge Bird, Pet and Animal Co. No. 24,378; May 16.
- "Routledge." (For Birdseed.) Routledge Bird, Pet and Animal Co. No. 24,379; May 16.
- "Ruby Hair Net." (For Hair Nets.) New York Merchandise Company. No. 24,535; June 20.
- "Ruggiero's Dentaural." (For Bottles or Cartons Containing a Mouth Wash.) A. Ruggiero. No. 24,734; July 18.
- "Rumson Cambric." (For Cotton Piece Goods.) American Printing Company. No. 23,985; Feb. 7.
- "Ruxton Silk Tissue." (For Toilet Paper.) B. F. Bond Paper Co. No. 24,991; Sept. 5.

Alphabetical list of labels—Continued.

- "Ivy Bread." (For Wax-Paper Bread Wrappers.) Menasha Printing and Carton Company. No. 25,374; Nov. 28.
- "Rythm-Gowns." (For Women's Gowns.) E. S. Ross. No. 25,235; Oct. 31.
- "S and L Superlative Automobile Polish." (For Bottles, Cans, Cartons, or Other Containers in Which the Automobile Polish is Marketed.) Silveira & Lorenz. No. 24,861; Aug. 8.
- "S M A A Food To Keep Babies Well." (For Artificial Foods or Milk.) Laboratory Products Company. No. 25,424; Dec. 19.
- "S M Co." (in the Red Star.) "This Stands for Highest Quality, Lowest Prices." (For All-Silk Taffeta Seam Binding.) Star Merchandise Company. No. 23,943; Jan. 17.
- "S. P. Co.'s Improved Cabinet Paper." (For Toilet Paper.) Scott Paper Company. No. 24,275; Apr. 25.
- "S. P. Co. Improved Patent Cabinet Toilet Paper." (For Toilet Paper.) Scott Paper Company. No. 24,276; Apr. 25.
- "S and W." (For Canned Apricots.) Sussman, Wormser & Co. No. 24,386; May 16.
- "S and W." (For Canned Asparagus.) Sussman, Wormser & Co. No. 24,385; May 16.
- "S and W." (For Canned Cherries.) Sussman, Wormser & Co. No. 24,390; May 16.
- "S and W." (For Canned Corn.) Sussman, Wormser & Co. No. 24,383; May 16.
- "S and W." (For Canned Peaches.) Sussman, Wormser & Co. No. 24,382; May 16.
- "S and W." (For Canned Peas.) Sussman, Wormser & Co. No. 24,384; May 16.
- "S and W." (For Canned Pineapple.) Sussman, Wormser & Co. No. 24,389; May 16.
- "S and W." (For Canned Tomatoes.) Sussman, Wormser & Co. No. 24,387; May 16.
- "S and W." (For Fruit Salad.) Sussman, Wormser & Co. No. 24,388; May 16.
- "Safety First." (For Kansas Hard-Wheat Flour.) Lindsborg Milling & Elevator Company. No. 24,309; May 2.
- "Safety First Chick Feeder." (For Chick Feeders.) G. H. Allen. No. 25,259; Nov. 14.
- "Saffic." (For Packages or Cartons Containing Fruit.) American Fresh Fruit Company. No. 24,482; June 20.
- "Sagamore." (For Cigars.) Wm. H. Bacheller Co. No. 25,103; Oct. 10.
- "Salts of Mono." (For a Medicinal Salt.) W. D. McPherson. No. 25,427; Dec. 19.
- "Sanapure." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 24,084; Feb. 14.
- "Sancho." (For Cigars.) Chas. J. Nielsen's Sons. No. 24,418; May 30.
- "Sands Prepared Cocoa Cubes." (For Cocoa.) Sands Cocoa Corporation. No. 24,550; June 20.
- "Sandwich Bread." (For Bread.) W. Freihofer. No. 24,303; May 2.
- "Sandwich Bread." (For Wax-Paper Bread Wrappers.) Menasha Printing and Carton Company. No. 25,373; Nov. 28.
- "Sani-Flush." (For a Powdered Compound for Cleaning Water-Closet Bowls.) Hygienic Products Company. No. 25,156; Oct. 17.
- "Sanitary Milk Bottle Holder." (For Covers for Milk-Bottle Holders.) C. Cohen. No. 24,870; Aug. 15.
- "San Marco." (For Alimentary Paste Products—Namely, Macaroni.) D. Cini. No. 25,114; Oct. 10.
- "Sano." (For a Rheumatic Remedy and System Tonic.) Sano Remedy Company. No. 24,678; July 4.
- "Sanus." (For Toilet Paper.) A. M. Eaton Paper Co. No. 25,219; Oct. 31.
- "Saratoga Golden Chips." (For Bags and Boxes Containing Saratoga Potato Chips.) C. M. Fountain. No. 24,216; Apr. 18.
- "Sardou's Beauty Treatment." (For Toilet Cream.) Sardou Bros. No. 25,257; Nov. 7.
- "Satin White." (For Bread.) Saniwax Paper Co. No. 24,601; June 27.
- "Satisfaction." (For Eggs.) Green & Company. No. 24,648; July 4.
- "Satisfactoree." (For Apples.) Skookum Packers Association. No. 24,897; Aug. 15.
- "Save The Surface." (For Paints and Varnishes.) H. A. Gardner. No. 24,580; June 27.
- "Savem." (For a Container for a Compound Used for the Treatment of Fabrics After the Same Have Been Washed.) Savem Economy Products Co. Nos. 24,679-80; July 4.
- "Savory K Y X." (For Nail Polish.) Hydrox Chemical Co. of Illinois. No. 25,010; Sept. 5.
- "Savory Jell-Jell." (For Containers and Boxes Containing a Gelatin Preparation for Use in Meat and Other Food Products.) B. Heller & Company. No. 25,459; Dec. 26.
- "Savory Steam Double Boilers." (For Steam Double Boilers.) Republic Metalware Co. No. 25,320; Nov. 14.
- "Scepter." (For Oranges.) Santiago Orange Growers Association. No. 23,926; Jan. 17.
- "Schneider's Health Tone Tablets." (For Laxatives.) Charles E. Schindler. No. 24,277; Apr. 25.
- "Schneider's Ginger Ale." (For Bottles Containing the Beverage Ginger Ale.) Chero-Cola Bottling Co. No. 25,263; Nov. 14.
- "Schneider's Simplex System of Instruction for Violin, Mandolin, and Mandolin-Banjo." (For Instruction Books and Phonograph Records for Use in Teaching Music.) F. M. Schneider. No. 24,860; Aug. 8.
- "Schoenhut's Clubby Clowns." (For Boxes in Which Clubby Clowns are Packed.) A. Schoenhut Company. The. No. 23,937; Jan. 17.
- "Schulze Quality Products." (For Bakery Products, Such as Bread, Doughnuts, Biscuit, and Cake.) Schulze Baking Company. No. 24,893; Aug. 15.
- "Scotch Belle." (For Toilet Paper.) Inlander-Steindler Paper Company. No. 25,249; Nov. 7.
- "Scotch Mist." (For a Beverage.) Henry-Brown Company, Inc. No. 24,875; Aug. 15.
- "Scottissue-Towel Holder No. 03." (For Paper Towels.) Scott Paper Company. No. 24,971; Aug. 29.
- "Scottissue Towels." (For Paper Towels.) Scott Paper Company. No. 24,970; Aug. 29.
- "Scott's Notare Curtain Rod Thimbles." (For Thimbles for Curtain Rods for the Side Curtains of Automobiles.) G. W. Scott. No. 25,236; Oct. 31.
- "Seaboard." (For Cotton Fabrics.) Seaboard Textile Co. No. 25,088; Oct. 3.
- "Seattle Ice Cream." (For Cartons Containing Ice Cream.) Menasha Printing and Carton Company. No. 24,478; June 6.
- "Security." (For Paper Towels.) Fort Howard Paper Company. No. 25,336; Nov. 21.
- "See Saw Sauces." (For Salad Dressing.) Seebass Products, Inc. No. 25,181; Oct. 17.
- "Seidel's Special Pasteurized Creamery Butter." (For Butter.) Martin Seidel. No. 23,939; Jan. 17.
- "Selby's Fleur Kiss Chewing Gum." (For Packages Containing Chewing Gum.) National Pepsin Gum Co. No. 24,654; July 4.
- "Select." (For Canned Vegetables—Namely, Tomatoes.) Anderson & Nelson. No. 24,612; July 4.
- "Sentry Hair Curler." (For Hair Curlers.) J. Goldsmith, Jr. No. 25,034; Sept. 12.
- "Served as Bread." (For Cartons Containing Crackers.) Green & Green Company. No. 24,305; May 2.
- "Seville Brand." (For Canned Peppers.) American Cone and Pretzel Company. No. 25,405; Dec. 19.
- "Sextons Vegetable Pills." (For a Small Box Containing Vegetable Compound Pills for Medicinal Purposes.) Stevens & Dow. No. 25,386; Nov. 28.
- "Shampoo Powder La Rose." (For Shampoo Powder.) E. Gaspard. No. 25,272; Nov. 14.
- "Sheldon the Mixer That Takes the Backache Out of Concrete." (For Concrete Mixers.) Sheldon Manufacturing Company. No. 24,281; Apr. 25.
- "Shepard Cattle Spray And Veterinary Liniment." (For Packages Containing an Insect Repellent and Liniment, Known as Shepard Cattle Spray and Veterinary Liniment.) Shepard Chemical Co. No. 25,237; Oct. 31.
- "Shepard Fly and Insect Killer." (For a Bottle Containing a Household Insecticide Known as Shepard Fly and Insect Killer.) Shepard Chemical Co. Inc. No. 25,090; Oct. 3.
- "Shepherd Wool Flannel Shirt." (For Shirts.) R. Drew. No. 25,266; Nov. 14.
- "Shield Brand Macaroni." (For Macaroni.) Walter F. Baker. No. 24,222; Apr. 25.
- "Shults Cream Bread." (For Shults Bread.) Shults Bread Company. No. 23,942; Jan. 17.
- "Shults Cream Bread." (For Shults's Bread.) Shults Bread Company. No. 25,324; Nov. 14.
- "Shur Oylus." (For Oils and Greases.) J. W. McArthur. No. 24,527; June 20.
- "Siamese Ice." (For a Confection.) S. Saeng-Xuto. No. 25,323; Nov. 14.
- "Sidebottom's Brick Ice Cream." (For Cartons Containing Ice Cream.) Menasha Printing and Carton Company. No. 23,972; Jan. 31.
- "Sierra Club." (For Ginger Ale.) Henry-Brown Co. No. 24,488; June 20.
- "Sigari Di Na Poli." (For Cigar Boxes.) Altamore Bros. No. 25,102; Oct. 10.
- "Silk Tissue." (For Toilet Paper.) J. C. E. Glass. No. 24,006; Feb. 7.
- "Silky Lamb." (For Infants' Hose.) Hub Hosiery Mills. No. 25,125; Oct. 10.
- "Silver Cake." (For Cake.) Schulze Baking Company. No. 24,885; Aug. 15.
- "Silver Standard." (For Cotton Piece Goods.) Sanger Bros., Inc. No. 23,974; Jan. 31.
- "Silvo." (For Toilet Paper.) A. M. Eaton Paper Co. No. 25,218; Oct. 31.
- "Simplicity." (For Hair Nets.) A. A. West. No. 24,866; Aug. 8.
- "Sinclair's Solvo A Chemical Solvent." (For a Cleaner for Ceramic Materials.) Sinclair Mfg. Company. No. 23,975; Jan. 31.
- "Sloan's Family Liniment." (For a Liniment Recommended in the Treatment of Muscular Rheumatism, Lumbago, Stiff Neck, Neuralgia Headache, Neuralgia, Sciatica, Sprains, Bruises, Chilblains, Mosquito Bites, Wind Colic, Muscular Cramp, Bronchial Cough, Spasmodic Croup, and Acute Pharyngitis.) Dr. Earl S. Sloan Incorporated. No. 23,876; Jan. 10.

- "Sloan's Fever and Distemper Tonic." (For a Tonic Remedy for Horses and Cattle.) Dr. Earl S. Sloan Incorporated. No. 23,875; Jan. 10.
- "Sloan's Quick Relief." (For a Medicine for Horses and Cattle for Collar and Saddle Galls, Scratches, Grease Heel, Mud Fever, Ailed Ulcerated Sores, Chafing, Breaching or Interfering Cuts and Screw Worms.) Dr. Earl S. Sloan Incorporated. No. 23,873; Jan. 10.
- "Smile-Boy." (For Boiled Ham.) Evansville Packing Company. No. 25,271; Nov. 14.
- "Smucker's Pure Apple Butter." (For Apple Butter.) J. M. Smucker Co. No. 24,898; Aug. 15.
- "Smucker's Pure Home Made Style Boiled Apple Cider." (For Boiled Cider.) J. M. Smucker Co. No. 25,202; Oct. 24.
- "Snipe Load." (For Loaded Shot Shells.) Remington Arms Company. No. 24,466; June 6.
- "Snow-Bird." (For Wrappers and Cartons for Chocolate Coated Sandwiches.) M. E. Davis. No. 25,151; Oct. 17.
- "Snow White." (For Bread.) Saniwax Paper Co. No. 24,596; June 27.
- "Snowflake Icing Sugar." (For Packages Containing Powdered Sugar.) G. H. Earle III. No. 23,866; Jan. 10.
- "Snowflake Pop Corn." (For Pop-Corn Bags.) Continental Paper & Bag Mills. No. 24,994; Sept. 5.
- "Snows." (For Candy.) Snows Candy Corporation. No. 24,607; June 27.
- "Soak-In." (For Containers Containing Liniment.) A. J. Krank. Nos. 24,793-4; Aug. 1.
- "Sombbrero." (For Cantaloupes.) Withers Brothers. No. 24,769; July 25.
- "Sonnie Boy." (For Grapes.) B. Cribari & Sons. No. 24,137; Feb. 28.
- "Sophia." (For Boxes, Packages, or Envelopes Containing Hair Nets.) S. Glemby, Inc. Nos. 24,999-25,000; Sept. 5.
- "Sophia." (For Boxes, Packages, or Envelopes Containing Hair Nets.) S. Glemby, Inc. No. 25,190; Oct. 24.
- "South Dakota Seal." (For Cigars.) J. M. Goodrich. No. 25,007; Sept. 5.
- "Southern Silk Tissue." (For Toilet Paper.) B. F. Bond Paper Co. No. 24,990; Sept. 5.
- "Speed." (For Boxes Containing a Corn, Wart, and Mole Remedy.) G. T. Edwards. No. 24,301; May 2.
- "Sperry's Lump Jaw Remedy." (For Bottles and Cartons Containing Said Preparation.) J. Sperry & Co. No. 25,468; Dec. 26.
- "Spick and Span." (For Underwear.) M. Mandel and I. H. Cohen. No. 25,370; Nov. 28.
- "Spickanbrite No. 1 Spik Cleaner." (For a Cleaner for Varnished or Enamelled Surfaces.) Lincoln Chemical Company. No. 24,080; Feb. 14.
- "Spickanbrite No. 2 Brite Polish." (For a Polish for Varnished or Enamelled Surfaces.) Lincoln Chemical Company. No. 24,079; Feb. 14.
- "Spider Brand Kills All Insect Powder." (For Insect Powder.) T. A. Hargraves. No. 25,070; Oct. 3.
- "Split Rivets." (For Rivets.) Edwin B. Stimpson Company. No. 25,091; Oct. 3.
- "Split Rivets." (For Rivets.) Edwin B. Stimpson Company. No. 25,093; Oct. 3.
- "Sprucine." (For Medicinal Ointment.) E. L. Sargent. No. 24,551; June 20.
- "Square D Safety Switch." (For Electric Switches.) Square D Co. No. 24,735; July 18.
- "Squirrel Load." (For Loaded Shot Shells.) Remington Arms Company. No. 24,967; Aug. 29.
- "Stacomb." (For Hair Pomade.) Standard Laboratories, Inc. No. 24,686; July 4.
- "Staffnote." (For Boxes Containing Player Rolls for Piano Player.) Billings Player Roll Company. No. 24,744; July 25.
- "Stage Hosiery." (For Hosiery.) M. Baum. No. 24,773; Aug. 1.
- "Standard Oleomargarine." (For Oleomargarine.) Standard Nut Margarine Co. No. 25,258; Nov. 7.
- "Staso." (For Shoe Laces.) W. E. Ellis Company. No. 24,338; May 9.
- "State Brand Butter." (For Cartons, Tubs, and Other Packages of Butter.) Calamia & O'Reardon Inc. No. 24,826; Aug. 8.
- "Sterling Brand." (For Malt Sirup.) Sterling Malt & Hop Co. No. 24,123; Feb. 21.
- "Sterling Frost Bites." (For Blocks of Ice Cream.) Sterling Dairy Products Company. No. 25,348; Nov. 21.
- "Still in the Bean." (For Coffee.) G. Gund. No. 25,420; Dec. 19.
- "Stork Shop Packet." (For Packages Containing Maternity Supplies.) J. L. Gallinati. No. 25,189; Oct. 24.
- "Stratton's Liniment." (For Bottles Containing Liniment.) F. P. Barber and R. K. Kirby. No. 24,743; July 25.
- "Style." (For Boxes Containing Hosiery.) F. Simmons. No. 24,684; July 4.
- "Style No. 2016, The Read-Sew Package." (For an Envelope Containing Children's Ready-to-Sew Garments.) Read-Sew Package Co. No. 24,733; July 18.
- "Summer and Winter De Lite Ice Cream Stick That Hits Right." (For an Ice-Cream Stick.) J. P. Morrill. No. 24,355; May 9.
- "Summit Varnish Company." (For Wood Finishes.) Summit Varnish Company. No. 24,021; Feb. 7.
- "Summore." (For Chocolate Puddings.) Braun-Debold Co. No. 24,228; Apr. 25.
- "Sunburst Ribbons." (For Silk Ribbons.) Clawson & Wilson Company. No. 24,191; Mar. 14.
- "Sundale." (For Tomato Catchup.) Greenbaum Bros. Inc. No. 23,900; Jan. 17.
- "Sundipt." (For Fruit Salad.) F. G. Wool Packing Company. No. 25,402; Dec. 5.
- "Sunny Jim." (For Confectionery.) Ohio Confection Company. No. 25,084; Oct. 3.
- "Sunny Susan Freckle Cream." (For Freckle Cream.) Sunny Susan Laboratories, Inc. No. 25,399; Dec. 5.
- "Sunset." (For Fresh Grapes.) Sunset Fruit Company. No. 25,239; Oct. 31.
- "Sunshine Brand Famous Pure Home Made Mayonnaise." (For Mayonnaise.) P. A. Pekich. No. 24,182; Mar. 7.
- "Sunshine Brand Famous Pure Home Made Mayonnaise Olive Relish." (For Olive Relish.) P. A. Pekich. No. 24,184; Mar. 7.
- "Sunshine Brand Famous Pure Home Made Orange Marmalade." (For Orange Marmalade.) P. A. Pekich. No. 24,183; Mar. 7.
- "Sunshine Macaroni." (For Macaroni.) Sunshine Macaroni Mfg. Co. No. 24,737; July 18.
- "Sun Shine Mist." (For a Composition for Cleaning and Polishing Furniture, Floors, Linoleum, and Other Surfaces.) J. W. Hamilton. No. 24,785; Aug. 1.
- "Sun Tex." (For Outdoor Apparel.) H. Director. No. 24,926; Aug. 29.
- "Super Quality." (For Piston Pins.) Automotive Products Corporation. No. 24,772; Aug. 1.
- "Superior." (For Macaroni.) The Pfaffmann Egg Noodle Company. No. 24,808; Aug. 1.
- "Superior." (For Noodles.) Pfaffmann Egg Noodle Company. No. 25,044; Sept. 12.
- "Superior." (For Sea Shells.) Pfaffmann Egg Noodle Company. No. 25,045; Sept. 12.
- "Superior." (For Spaghetti.) Pfaffmann Egg Noodle Company. No. 25,047; Sept. 12.
- "Superior." (For Vermicelli.) Pfaffmann Egg Noodle Company. No. 25,046; Sept. 12.
- "Superior Brand." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 24,194; Mar. 14.
- "Sur-fa-Save." (For Paints.) Eclipse White Lead & Color Co. No. 24,501; June 20.
- "Swannette Hair Net." (For Hair Nets.) S. Glemby's Sons Co. No. 24,646; July 4.
- "Swan's Holsum Bread." (For Bread.) Swan Bros., Inc. No. 25,436; Dec. 19.
- "Swas-Tika." (For Soda Crackers.) Pacific Coast Biscuit Company. No. 23,871; Jan. 10.
- "Sweeping Compound." (For Sweeping Compound.) Mutual Oil Company. No. 24,018; Feb. 7.
- "Sweetandgood." (For Cookies.) Matthaal Baking Co. No. 24,410; May 30.
- "Sweet Home." (For Bread.) Saniwax Paper Co. No. 24,598; June 27.
- "Sweet Milk Chocolate." (For Sweet Milk Chocolate.) Knickerbocker Chocolate Company. No. 24,120; Feb. 21.
- "Sweet-Nut Goobers." (For Salted Peanuts.) National Foods Products Co. Nos. 24,590-1; June 27.
- "Sweet Wheat Bread." (For Bread.) A. Yost & Son. No. 24,569; June 20.
- "Sweetest Packed." (For Peas.) Stephens Canning Corporation. No. 25,238; Oct. 31.
- "Sweetie." (For Oranges.) L. K. Small Company. No. 24,685; July 4.
- "Sweetness in Every Box." (For Candy.) Meier & Frank Co. No. 24,799; Aug. 1.
- "Sweet's Lady Claire Chocolates." (For Chocolates.) Sweet Candy Company. No. 24,688; July 4.
- "Suwannee." (For Sirup.) L. M. Mizell. No. 24,944; Aug. 29.
- "SV." (For Apples.) Spokane Valley Growers Union. No. 24,814; Aug. 1.
- "Sylvia De Mae." (For Cigars.) B. Ochakoff. No. 24,219; Apr. 18.
- "Syrup of Prunes." (For a Tonic Laxative Proprietary Medicine.) Oregon Syrup of Prunes Co. No. 24,158; Feb. 28.
- "System Tonic." (For a Proprietary Medicine.) C. A. Shand. No. 24,365; May 9.
- "Tangerine." (For Receptacles Containing Tangerine Soda.) A. Cavo. No. 25,183; Oct. 24.
- "Tastee." (For Cantaloupes.) R. De Giorgio. No. 24,747; July 25.
- "Temple Oranges." (For Packages Containing Fresh Oranges.) Buckeye Nurseries Incorporated. No. 24,437; June 6.
- "Tested and Approved Used Automobiles." (For Used Automobiles.) Chicago Automobile Trade Association. No. 24,491; June 20.
- "The Arnold Drill Charts." (For Drill Charts for Teaching Arithmetical Problems—Namely, Addition, Subtraction, Multiplication, Division, Fractions, Decimals, and Business Equivalents.) C. L. Lothrop. No. 25,130; Oct. 10.
- "The Binder." (For Tur and Antiseptic Soap.) Estate of Richard Binder. No. 24,244; Apr. 25.

Alphabetical list of labels—Continued.

- "The Caltex Company Rhino Textile Products." (For Artificial Leather.) Caltex Company. No. 24,039; Feb. 14.
- "The Chertok-Bodak Hair Saver." (For a 4-Oz. Bottle of Vegetable and Root Compound (Liquid) for the Treatment of Hair and Scalp.) Oscar Hair Restoring Company. No. 24,669; July 4.
- "The Childrens Shoe Workers' Union of New York State." (For Childrens Shoes.) Childrens Shoe Workers' Union of New York State. No. 24,631; July 4.
- "The Chore Boy—243 Uses." (For Scouring Cloths.) R. B. Kingman. No. 24,522; June 20.
- "The Country Gentleman Handkerchief." (For Boxes Containing Handkerchiefs.) Thomas Carter & Sons, Inc. No. 24,629; July 4.
- "The Cream of Pittsburgh." (For Cartons Containing Ice Cream.) Menasha Printing and Carton Company. No. 25,165; Oct. 17.
- "The Dream Feast." (For a Baked Confection.) E. D. Brown. No. 24,436; June 6.
- "The Dunbar Special." (For Cigar Boxes and Cans.) Richard E. Edwards. No. 24,060; Feb. 14.
- "The E. Z. Waist Union Suit." (For Union Suits.) E. Z. Waist Company. Nos. 23,949-50; Jan. 17.
- "The Every-Day Net." (For Hair Nets.) A. A. West. No. 24,864; Aug. 8.
- "The Good Kind." (For Canned Corn.) Steele Wedeles Company. No. 24,381; May 16.
- "The Great T Puzzle." (For Packages Containing Letter Puzzles.) Kirby-Cogeshall Co. No. 24,350; May 9.
- "The Green Lemon." (For Soap.) Internationala, Limited. No. 24,514; June 20.
- "The Iris Hair Net." (For Hair Nets.) S. Glemby's Sons Co. No. 24,644; July 4.
- "The K R Pure Malt Extract." (For Cans Containing Pure Malt Extracts.) S. Katz. No. 25,014; Sept. 5.
- "The Lucille Dress." (For Childrens Dresses.) J. Plymack. No. 24,099; Feb. 14.
- "The Magic Mother Goose." (For an Adhering Wrapper for a Box Containing a Book of Like Title.) Invisible Process Co. No. 24,172; Mar. 7.
- "The Magic Tale of Peter Rabbit." (For an Adhering Wrapper for a Box Containing a Book of Like Title.) Invisible Process Co. No. 24,170; Mar. 7.
- "The New A Puzzle." (For Packages Containing Letter Puzzles.) Kirby-Cogeshall Co. No. 24,257; Apr. 25.
- "The New B Puzzle." (For Packages Containing Letter Puzzles.) Kirby-Cogeshall Co. No. 24,258; Apr. 25.
- "The New F Puzzle." (For Packages Containing Letter Puzzles.) Kirby-Cogeshall Co. No. 24,260; Apr. 25.
- "The New H Puzzle." (For Packages Containing Letter Puzzles.) Kirby-Cogeshall Co. No. 24,259; Apr. 25.
- "The New K Puzzle." (For Packages Containing Letter Puzzles.) Kirby-Cogeshall Co. No. 24,261; Apr. 25.
- "The Nut Family." (For Nuts.) P. S. Henderson. No. 24,583; June 27.
- "The Original J. G. Standard Hair Net." (For Hair Nets.) Julius Gelb. No. 24,063; Feb. 14.
- "The Original Old French Lilac." (For Toilet Water.) J. T. Gaffney. No. 25,395; Dec. 5.
- "The Original Old French Quinine." (For a Hair Tonic.) J. F. Gaffney. No. 25,394; Dec. 5.
- "Tinte Oriental." (For a Hair Dye.) Gustavo Saliva S. en C. No. 25,398; Dec. 5.
- "The Parrot Hat." (For Hatboxes.) Hatters Clearing House, Inc. No. 25,193; Oct. 24.
- "The Picnic Pack." (For Packages of Table Salt.) Worcester Salt Company. No. 25,241; Oct. 31.
- "The Pioneer of 'Em All." (For Breakfast Barley.) G. W. Towne. No. 25,437; Dec. 19.
- "The Sanitary Talcum Powder Dispenser." (For Talcum-Powder Dispensers.) Olafson-Cohen-Anderson Mfg. Co. Inc. No. 24,311; May 2.
- "The Spinning Witch Game." (For a Game.) P. Peck Desnoyers. No. 24,240; Apr. 25.
- "The Spinning Witch She Tells Your Fortune." (For a Game.) P. Peck Desnoyers. No. 24,259; Apr. 25.
- "The Symphony Hair Net." (For Hair Nets.) S. Glemby's Sons Co. No. 25,006; Sept. 5.
- "The Test That Proves Spearmint Tooth Paste Good for Children—and Grown Ups Too!" (For Tooth Paste.) Wrigley Pharmaceutical Co. No. 24,867; Aug. 8.
- "The Tulip Hair Net." (For Hair Nets.) S. Glemby's Sons Co. No. 25,004; Sept. 5.
- "The Universal Toy." (For Masks.) Dessart Bros. No. 24,441; June 6.
- "The Velvet Kind." (For Containers for Ice Cream.) Hender Creamery Company. No. 25,285; Nov. 14.
- "The World's Finest Fruit." (For Fruit Wrappers.) H. R. Williar. No. 24,741; July 18.
- "Theodora." (For Cigars.) V. Cardali. No. 24,439; June 6.
- "This And That In Chocolates." (For Candy.) Bunte Brothers. No. 25,334; Nov. 21.
- "Thompson & Company." (For Cigars.) Thompson & Company. No. 24,899; Aug. 15.
- "Thor De Garcia & Co. Havana." (For Cigars, Cigarettes, and Tobacco.) Joseph A. Garcia & Company. No. 24,721; July 18.
- "Thorobread." (For Bread.) Newark Paraffine & Parchment Paper Co. No. 24,656; July 4.
- "Tieton." (For Apples.) H. Johnston. No. 24,520; June 20.
- "Tillman's Seal Havana." (For the Ends of Cigar Boxes.) Tillman Cigar Co. No. 24,477; June 6.
- "Tillman's Seal Havana." (For the Inside Lid of Cigar Boxes.) Tillman Cigar Co. No. 24,476; June 6.
- "Tilt." (For a Game for Children.) E. Marsh. No. 24,937; Aug. 29.
- "Tinkles the Clown." (For Candies—Namely, Kiddie Junior Candies.) Candy Craft, Inc. No. 24,041; Feb. 14.
- "Tip Top." (For a Breakfast Food.) International Corn Products Corporation. No. 24,070; Feb. 14.
- "Tip-Top." (For Apple Jelly.) D. B. Scully Syrup Company. No. 24,279; Apr. 25.
- "Tip-Top." (For Loaves of Bread.) Miller-Parrott Baking Co. No. 24,413; May 30.
- "Tip Top Quality Moo-Kow." (For Chocolate Coated Ice-Cream Bar.) Vincennes Milk & Ice Cream Co. No. 24,426; May 30.
- "Toiltex." (For Toilet Tissue Paper.) National Paper Products Company. No. 25,379; Nov. 28.
- "Tomato Catsup." (For Catchup.) Welch Grape Juice Company. No. 25,208; Oct. 24.
- "Tommy Tucker Bread." (For Bread.) Shawmut Mills. No. 24,895; Aug. 15.
- "Tootsie Peppermint." (For Candy Mints Flavored with Peppermint.) Sweets Company of America, Inc. No. 24,977; Aug. 29.
- "Tootsie Wintergreen." (For Candy Mints with Wintergreen Flavor.) Sweets Company of America, Inc. No. 24,976; Aug. 29.
- "Tophams." (For Trunks, Chests, Sample Cases, Record Carrying Cases, Traveling Cases, Suit Cases, Brief Cases, Traveling Bags, Mail Bags and Golf Bags.) Tophams. No. 23,879; Jan. 10.
- "Totem." (For Cigars.) Waitt & Bond, Inc. No. 24,368; May 9.
- "Town and Country Nets." (For Hair Nets.) A. A. West. No. 24,865; Aug. 8.
- "Trade Balance." (For Cigars.) Cole Lithographic & Printing Co. No. 24,234; Apr. 25.
- "Trap Load." (For Loaded Shot Shells.) Remington Arms Company. No. 24,546; June 20.
- "Treasure Loaf." (For Bread.) Waxtwell Paper Company. No. 24,427; May 30.
- "Tree Sportlette." (For Elastic Corsets.) Treo Company. No. 25,438; Dec. 19.
- "Tribby." (For Boxes and Cans Containing Cigars.) Reading Cigar Co. No. 24,963; Aug. 29.
- "Triumph." (For Canned Crab Meat.) Sale & Frazar, Ltd. No. 24,104; Feb. 14.
- "Tri-Una." (For a 3 in 1 Remedy for Tender Sweaty Feet, Perspiration Odors, Calli, and Corns.) Turlington Chemical Company. No. 24,561; June 20.
- "Trixy." (For Molasses.) D. B. Scully Syrup Company, The. No. 23,938; Jan. 17.
- "Trommer's Malt Brew." (For Malt Beverages Containing Less Than One-Half of One Per Cent Alcohol.) John F. Trommer, Inc. No. 23,947; Jan. 17.
- "Tropic-Tart." (For a Frozen Fruit Product.) Tropic-Tart Co. No. 25,204; Oct. 24.
- "True Shape." (For Hosiery for Men.) True Shape Hosiery Co. No. 24,978; Aug. 29.
- "True Shape." (For Hosiery for Ladies.) True Shape Hosiery Co. No. 24,979; Aug. 29.
- "True Shape." (For Hosiery for Men.) True Shape Hosiery Co. No. 24,980; Aug. 29.
- "True Shape." (For Hosiery for Ladies.) True Shape Hosiery Co. No. 24,981; Aug. 29.
- "True-Torten Cake." (For Cake.) Schulze Baking Company. No. 24,892; Aug. 15.
- "Truffle Mints." (For Candy.) Chocolate Truffles Co. No. 23,862; Jan. 10.
- "Trufood." (For Breakfast Cereal.) G. W. Farney. No. 24,873; Aug. 15.
- "Trusco The Superior Lubricating Oil." (For Lubricating Oils.) G. J. Burns. No. 24,331; May 9.
- "Turkish Egg Shampoo Cream." (For a 4 oz. White Opal Jar Containing Said Cream.) J. V. Havener. No. 24,198; Mar. 21.
- "12 Test." (For Paints.) California Paint Company. No. 25,058; Oct. 3.
- "Two Way Service." (For Table Salt.) G. M. Sultenfuss. No. 24,608; June 27.
- "Tykac's Liniment." (For Preparations for the Treatment of Rheumatic and Inflammatory Troubles.) C. Tykac. No. 23,880; Jan. 10.
- "TyRite." (For Ladies' and Men's Ties.) U. S. Neckwear Co. No. 24,562; June 20.
- "U R C A Roofing Material Formerly A-R-A and National Association of Roofing Contractors." (For Roofing Material.) United Roofing Contractors Association. No. 24,160; Feb. 28.
- "Ultra." (For Cartons Containing Ice Cream.) Menasha Printing and Carton Company. No. 25,163; Oct. 17.
- "U-Need-It Polish." (For Furniture and Automobile Polish.) H. L. Stoner. No. 25,328; Nov. 14.
- "United Evaporated Milk." (For Cans Containing Evaporated Milk.) United Dairy Co. No. 23,976; Jan. 31.
- "Un Kist Honey Sweetheart of the Flowers." (For Honey Containers.) E. C. Williams. No. 25,100; Oct. 3.

- "Unmask Your Beauty." (For Cosmetic Lotions for Beautifying the Skin and Eradicating Blemishes Thereof.) T. J. Newlyn. No. 24,804; Aug. 1.
- "Ultra." (For Oranges.) Grand View Heights Citrus Assn. No. 24,405; May 30.
- "U-Tell-Em" Its Tas Tells." (For Ice Cream.) City Dairy and Ice Cream Co. No. 24,776; Aug. 1.
- "U-Write=6c=Writing Tablets." (For Boxes Containing Writing Tablets.) Western Tablet and Stationery Company. No. 25,240; Oct. 31.
- "Vaglo Hair Net." (For Hair Nets.) National Commodities Company. No. 24,588; June 27.
- "Valentino Cigarettes." (For Cigarettes.) G. P. Castritsy. No. 25,416; Dec. 19.
- "Valley Forge Special Malt Extract." (For Malt Extract.) Adam Scheidt Brewing Company. No. 24,552; June 20.
- "Valley Grove." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 25,160; Oct. 17.
- "Van Camp." (For Boxes and Cans Containing Cigars.) Petri-Italian-American Cigar Co. No. 25,086; Oct. 3.
- "Van Ess Liquid Scalp Massage." (For Medical Preparations for the Treatment of the Hair and Scalp.) Van Ess Laboratories, Inc. Nos. 24,563-4; June 20.
- "Van Ess Special Dandruff Massage." (For Medical Preparations for the Treatment of the Hair and Scalp.) Van Ess Laboratories, Inc. Nos. 24,565-6; June 20.
- "Van-Guard." (For Toilet Paper.) Fort Howard Paper Company. No. 24,874; Aug. 15.
- "Vander Bie's." (For Cartons Containing Ice Cream.) Menasha Printing and Carton Company. No. 25,227; Oct. 31.
- "Vanessa Cream Soap." (For a Collapsible Tube for Containing Soap.) W. R. Flint. No. 25,335; Nov. 21.
- "Vanity the Modish Woman's Favorite." (For Hair Nets.) Ego Trading Corporation. No. 24,243; Apr. 25.
- "Vapocide." (For Insecticides, Fungicides, and Fumigating Materials.) Grasselli Chemical Company. No. 24,581; June 27.
- "Vapooile." (For Cans Containing Vapooile.) Motor Products Company. No. 24,017; Feb. 7.
- "Varicosol." (For a Box Containing a Medical Preparation in Powder Form for the Treatment of Hardening of the Arteries, Varicocele, Varicose Veins, and Rheumatism.) P. T. Donovan. No. 24,720; July 18.
- "Varno." (For Cans and Bottles Containing Polishes for Leather, Automobiles, Safes, Furniture, or any Surface Varnished with Fossil Gum Varnish.) Varno Co. No. 23,978; Jan. 31.
- "Vegetine." (For a Stomach Relief Remedy.) E. E. Steiner. No. 24,974; Aug. 29.
- "Vegex Almonds." (For a Vitamine Food Preparation.) Vitamin Food Co. Inc. No. 24,610; June 27.
- "Vegex Almonds." (For Vitamine Food Preparation.) Vitamin Food Co. Inc. No. 24,818; Aug. 1.
- "Venus Rubber Bands." (For Boxes for Shipping Rubber Bands.) American Lead Pencil Company. No. 24,030; Feb. 14.
- "Venus Rubber Erasers." (For Boxes for Shipping Rubber Erasers.) American Lead Pencil Company. No. 23,884; Jan. 17.
- "Venus Thin Leads." (For Boxes for Shipping Lead Pencils.) American Lead Pencil Company. No. 23,883; Jan. 17.
- "Veribest Water Bottle." (For a Rubber Hot-Water Bottle.) Hochschild Corporation. No. 25,072; Oct. 3.
- "Vermicelli." (For Boxes or Other Packages Containing Vermicelli.) Italia Bianchi. No. 24,571; June 27.
- "Vermont Style Syrup." (For a Syrup Composed of 75% Cane-Sugar Sirup and 25% Maple Sirup.) Robb-Ross Co. No. 24,103; Feb. 14.
- "Victor." (For Underwear and Boxes Containing the Same.) International Printing Company. No. 25,126; Oct. 10.
- "Victoria Brown." (For Calf Leather.) Barnet Leather Co. Inc. No. 24,905; Aug. 29.
- "Victory Coal Save." (For a Composition for Treating Fuel Coal.) William A. Robeson. No. 24,159; Feb. 28.
- "Victory Elixir." (For a Liquid for Killing Flies, Fleas, Gnats.) Chas. S. Daugherty & Son. No. 23,864; Jan. 10.
- "Vicia." (For Hair Nets.) North American Import Co. No. 24,157; Feb. 28.
- "Vienna Bread." (For Wax-Paper Bread Wrappers.) Menasha Printing and Carton Company. No. 25,376; Nov. 28.
- "Vigorine." (For Containers for a Medicine for Kidney, Bladder, and Stomach Trouble, Lumbago, Indigestion, and Chronic Constipation.) D. Moore. No. 25,173; Oct. 17.
- "Virden's Dinty Moore." (For Cooked Corned Beef.) Virden Packing Company. No. 24,478; June 6.
- "Virden's Thrift." (For Cooked Corn Beef.) Virden's Packing Company. No. 24,691; July 4.
- "Virden's Thrift." (For Meat Loaf.) Virden Packing Company. No. 24,609; June 27.
- "Virgin Olive Oil." (For Olive Oil.) A. Gash. No. 24,508; June 20.
- "Virginia Dare." (For Candy and Chocolate Eggs.) Virginia Dare Company, The. No. 24,213; Apr. 4.
- "Virginia Mountain Peaches, Mad Run Brand." (For Packages Containing Peaches.) J. A. O'Neill. No. 24,668; July 4.
- "Visible." (For Canned Apricots.) George Wills and Sons, Ltd. No. 24,953; Aug. 29.
- "Vis-Lax." (For Laxative Tablets.) A. P. Viscardi. No. 24,110; Feb. 14.
- "Vitafood." (For Tonic Foods.) Vitamin Food Co. Inc. No. 24,161; Feb. 28.
- "Vita-Lax Pills." (For a Wooden Pill Box.) Vi-Tone Products Co. No. 25,472; Dec. 26.
- "Vitamin." (For Whole-Wheat Flour.) New Richmond Roller Mills Co. No. 24,957; Aug. 29.
- "Vit-A-Mine Line Foods." (For Vit-A-Mine Line Foods.) T. J. Newbill. No. 24,657; July 4.
- "Vitamine Tomatoes." (For Canned Tomatoes.) Kemp Bros. Packing Co. No. 24,727; July 18.
- "Vitaminized Fruit Wafers." (For Vitamine Food Preparation.) Vitamin Food Co. Inc. No. 24,817; Aug. 1.
- "Vithmine." (For a Nonalcoholic Beverage Comprising a Preparation for Malted Milk Beverage.) Vithmine Malted Milk Co. No. 24,284; Apr. 25.
- "Vogue Hair Net." (For Hair Nets.) Seidner & Hitzigrah. No. 24,105; Feb. 14.
- "W S S Water." (For Mineral Waters.) White Sulphur Springs, Inc. No. 24,373; May 9.
- "Wafer-Lax." (For a Carton Which Contains a Bottle with an Average of Thirty-Two Wafers Contained Therein.) William H. Sweet Company. No. 24,689; July 4.
- "Wainwright Piston Pins." (For Piston Pins.) McQuay-Norris Mfg. Co. of Indiana. No. 24,412; May 30.
- "Wainwright Pistons." (For Pistons.) McQuay-Norris Mfg. Co. of Indiana. No. 24,411; May 30.
- "Wainwright Pistons." (For Pistons.) McQuay-Norris Mfg. Co. of Indiana. No. 25,019; Sept. 5.
- "Walnettos." (For Candy—Namely, Caramels.) J. N. Collins Company. No. 24,237; Apr. 25.
- "Walnettos." (For Candy—Namely, Caramels.) J. N. Collins Company. Nos. 24,632-3; July 4.
- "Walnettos." (For Complete Candy Parcels Made Up of a Box Filled with Wrapped Candy—Namely, Caramels.) J. N. Collins Company. No. 24,830; Aug. 8.
- "Walsten." (For Cigars.) A. S. Pfeiffer & Son. No. 24,422; May 30.
- "Walters Hoky-Poky Ice Cream Chocolate Cover Candy." (For Candy.) R. S. Walters. No. 25,401; Dec. 5.
- "Ward's Double XX Milk Bread." (For Bread.) Ward Baking Company. No. 25,473; Dec. 26.
- "Ward's Homespun Bread." (For Bread.) Ward Baking Company. No. 24,162; Feb. 28.
- "Ward's Soft Bun Bread." (For Bread.) Ward Baking Company. No. 24,372; May 9.
- "Ward's Vitovin Bread." (For Bread.) Ward Baking Company. No. 25,439; Dec. 19.
- "Wason's Better." (For Coffee.) Wason Brothers. No. 24,285; Apr. 25.
- "Wave Hair Curler." (For Hair Curlers.) J. Goldsmith, Jr. No. 25,035; Sept. 12.
- "We Lace The World." (For Laces.) H. Bernstein. No. 25,150; Oct. 17.
- "Wear-Eez." (For Lubricant.) Halstead Specialties Co. No. 23,901; Jan. 17.
- "Weatherly." (For Ice Cream.) Crystal Ice Hold Storage Co. No. 24,911; Aug. 29.
- "Welcome Brand." (For Bay Rum.) Wrede and Lange. No. 25,101; Oct. 3.
- "Wheat Treats." (For Wheat Cereals.) Radiantfood Company. No. 25,087; Oct. 3.
- "Wheatsbest." (For Flour.) J. W. Milling Company. No. 24,496; June 20.
- "Wheatworth Whole Wheat Graham Crackers." (For Crackers.) F. H. Bennett Biscuit Company. No. 27,713; July 18.
- "Whisk O Punch." (For Beverages.) S. M. Hoyer. No. 25,287; Nov. 14.
- "White Banner." (For Malt Extract.) Decatur Brewing Company. No. 23,958; Jan. 31.
- "White Cross Chill & Fever Tonic." (For a Medicinal Preparation—to wit, a Tonic for Chills and Fever, Bilious Fever, Intermittent Fever, Dumb Ague, La Grippe, and All Malarial Diseases.) American Drug Co. No. 25,053; Oct. 3.
- "White Cross Liver Medicine." (For a Medicinal Preparation for Constipation, Biliousness, Indigestion, Costiveness, and All Diseases of the Liver.) American Drug Co. No. 25,406; Dec. 19.
- "White Diamond the Gem of Shoe Cleaners." (For Packages Containing a Chemical Preparation for Cleaning Shoes and other Leather and Fabric Articles.) A. E. Crosby. No. 23,957; Jan. 31.
- "White Eagle." (For Pile Salve.) J. Gamble. No. 24,579; June 27.
- "White Lily." (For Bread.) Saniwax Paper Co. No. 24,600; June 27.
- "White Lion." (For Cigars.) Gus Neuwahl. No. 23,926; Jan. 17.
- "White Mountain." (For Baking Powder.) Caverly-Plumer Company. No. 25,028; Sept. 12.
- "White Rose." (For Bread.) Massachusetts Baking Company. No. 24,879; Aug. 15.

Alphabetical list of labels—Continued.

- "White Rose." (For Bread.) Saniwax Paper Co. No. 24,602; June 27.
- "White Rose." (For Brooms.) Gardner Broom Co. No. 24,505; June 20.
- "White Star Ointment." (For Boxes Containing White Star Ointment.) Gene Palmer Company. No. 24,209; Apr. 4.
- "White Sulphur Springs Water." (For Mineral Waters.) White Sulphur Springs, Inc. No. 24,932; Aug. 29.
- "White Swan." (For Mattresses.) Chattanooga Mattress Company. No. 24,328; Aug. 8.
- "Whiting's Liniment." (For Bottles Containing Liniment.) T. F. Whiting and J. A. Martin. No. 24,392; May 16.
- "Widlar's Genuine." (For Mocha and Java Coffee.) Widlar Co. No. 24,768; July 25.
- "Wilbert's Housework Ammonia." (For Bottles and other Receptacles Containing Ammonia.) Wilbert Products Co., The. No. 24,128; Feb. 21.
- "Wild Wave Chocolates." (For Candies.) Blauke-Wenneker Candy Co. No. 24,988; Sept. 5.
- "Wisconsin Farms' Brand Evaporated Milk." (For Cans Containing Unsweetened Evaporated Milk.) Pleasant Valley Farms and Morey Condensery Company. No. 24,958; Aug. 29.
- "Wise Bow." (For Neckties.) Benjamin Weisberg. No. 24,186; Mar. 7.
- "Wiss." (For Boxes Containing Shears, Scissors, and Snips.) J. Wiss & Sons Co. No. 25,440; Dec. 19.
- "Witchcraft Malt Extract." (For Malt Extracts.) A. Wielich. No. 23,979; Jan. 31.
- "Wizard Snap Fastener." (For Snap Fasteners.) American Fastener Co. No. 23,882; Jan. 17.
- "Women Grinding at the Mill." (For Cartons Containing Parched Wheat.) Parched Wheat Co. No. 25,176; Oct. 17.
- "Women's Apparel in Misses Sizes." (For Women's Apparel.) Lane Bryant. No. 24,229; Apr. 25.
- "Women's Apparel in Misses Sizes." (For Women's Apparel.) L. Bryant. No. 24,489; June 20.
- "Won their favor by their flavor." (For Cantaloupe Crates.) F. H. Becker. No. 25,055; Oct. 3.
- "Wonderful Improvement for Service and Cleaning." (For Window Shades, Being Applied to the Shade Rollers Thereof.) Paris Manufacturing Company. No. 24,377; May 16.
- "Wool's." (For Fruit Salad.) F. G. Wool Packing Company. No. 24,567; June 20.
- "Wow!" (For Box Containing a Game.) Wow Sales Co. No. 25,149; Oct. 10.
- "Wyandotte." (For California Ripe Olives.) Wyandotte Olive Growers Association. No. 24,430; May 30.
- "Wynnes Rising-Mist Salve." (For Salve.) Wynne Bros. No. 24,197; Mar. 14.
- "Yale." (For Snap Fasteners.) American Fastener Company. No. 25,358; Nov. 28.
- "Yankee Girl." (For Envelopes Containing Hair Nets.) B. Frankel Company. No. 24,638; July 4.
- "Yankee Roll." (For Wrappers for and on Containers in Which are Packed Articles of Food Consisting of a Shell of Baked Dough Having Rolled Within It Before Baking a Filling Consisting of Chopped Meat, Fish, Cheese, Mince-meat, Jelly, Chocolate, Berries, or Fruits.) Never Enough Pie Company. No. 25,348; Nov. 21.
- "Yap Crepe Tissue." (For Toilet-Paper Rolls.) Linton and Company. No. 24,934; Aug. 29.
- "Ye Black Crow Inn." (For Coffee.) Weppner-Weil Company, The. No. 24,187; Mar. 7.
- "Ye Town Crier." (For Package Confections and Candies.) Robert A. Johnston Co. No. 25,195; Oct. 24.
- "Yeast O Beauty Soap." (For a Toilet Soap.) W. T. Green. No. 24,376; May 16.
- "Yeast O Depilatory." (For a Depilatory.) W. T. Green. No. 24,341; May 9.
- "Yeast O Mouth Wash." (For Mouth Wash.) W. T. Green. No. 25,153; Oct. 17.
- "Yellow Bird." (For a Wrapper for Toilet-Paper Rolls.) Northern Paper Mills. No. 24,659; July 4.
- "Yellow Cab." (For Cigars.) McKee-Marks Cigar Co. No. 24,939; Aug. 29.
- "Yerba Del Sol Tea Of Regeneration." (For Packages of Dried Leaves of the Herb Ephedra Californica.) Halcyon Mfg. & Distributing Co. No. 25,154; Oct. 17.
- "Yorktown Shirt." (For Shirts.) R. Drew. No. 25,268; Nov. 14.
- "Yorkwin." (For Fresh Fruit.) Western New York Fruit Grower's Co-Operative Packing Ass'n, Inc. No. 24,900; Aug. 15.
- "Zanzibar-Brand Lem-Ajax." (For Containers Holding a Nonalcoholic Imitation-Lemon Flavoring for Use in Food Products.) B. Heller & Company. No. 25,449; Dec. 26.
- "Zanzibar-Brand Oran-Ajax." (For Containers Holding a Nonalcoholic Imitation-Orange Flavoring for Use in Food Products.) B. Heller & Company. No. 25,454; Dec. 25.
- "Zanzibar Brand Vaniloid." (For Bottles, Cartons, Cases, Kegs, and Barrels Containing a Flavoring Compound for Use in Food Products.) B. Heller & Company. No. 25,453; Dec. 26.
- "Zanzibar-Carbon Combination Laundry Blue." (For Containers Holding Zanzibar-Carbon Combination Laundry Blue, a Blue Used for Laundry Purposes.) No. 24,752; July 25.
- "Zanzibar-Carbon Crystal Laundry Blue." (For Containers Holding Zanzibar-Carbon Crystal Laundry Blue, a Blue Used for Laundry Purposes.) B. Heller & Company. No. 24,750; July 25.
- "Zanzibar-Carbon Non-Sour Blue." (For Containers Holding Zanzibar-Carbon Non-Sour Blue, a Blue Used for Laundry Purposes.) B. Heller & Company. No. 24,751; July 25.
- "Zenith." (For an Instrument and Furniture Polish.) C. Cagan. No. 25,057; Oct. 3.
- "Ziegler's Aero Kisses." (For Candy Kisses.) Geo. Ziegler Co. No. 27,742; July 18.

ALPHABETICAL LIST OF PRINTS.

- "A Basketful of Happiness." (For Advertising Purposes for Jell-O, a Dessert Preparation.) Genesee Pure Food Company. No. 6,414; Nov. 14.
- "A Beauty Secret 3,000 Years Old." (For Advertising Purposes for Palmolive Soap.) The Palmolive Company. No. 6,008; Feb. 28.
- "A Bright Kitchen." (For Advertising Purposes for Stove Pipes.) Mirror Patented Stove Pipe Company. No. 6,079; Apr. 25.
- "A chimneypiece and wood paneling." (For Advertising Purposes for Vitralite, the Long-Life Enamel.) Pratt & Lambert—Inc. No. 6,435; Nov. 21.
- "A few strokes of the brush." (For Advertising Purposes for Vitralite, the Long-Life Enamel.) Pratt & Lambert—Inc. No. 6,436; Nov. 21.
- "A Free Book." (For Advertising Purposes for Jell-O, a Dessert Preparation.) Genesee Pure Food Company. No. 5,953; Feb. 14.
- "A full line of Baby Necessities." (For Advertising Purposes for Mennen Toilet Preparations.) Mennen Company. No. 6,371; Oct. 31.
- "A Gift Cake For Every Child To Make Them Enjoy Washing." (For Advertising Purposes for Palmolive Soap.) Palmolive Company. No. 6,172; June 20.
- "A Great Tradition Sustained." (For Advertising Purposes for Drugs.) E. R. Squibb & Sons. No. 6,422; Nov. 14.
- "A Haynes 75 for every motoring travel requirements." (For Advertising Purposes for Automobiles.) Haynes Automobile Company. No. 6,281; Aug. 29.
- "A Letter from the Seashore." (For Advertising Purposes for Crane's Linen Lawn and Eaton's Highland Linen.) Eaton, Crane & Pike Company. No. 6,057; Apr. 4.
- "A Man's Story To Men!" (For Advertising Purposes for Suspensories.) S. H. Wetmore Company. No. 6,292; Aug. 29.
- "A Pal for Your Palate." (For Advertising Purposes for Ice Cream.) Hendler Creamery Company. No. 6,415; Nov. 14.
- "A reflection of good coffee." (For Advertising Purposes for Coffee.) Hills Bros. No. 6,240; Aug. 1.
- "Advance Modulimeter Tested." (For Advertising Purposes for Washers and Gaskets.) Widney Company. No. 5,980; Feb. 14.
- "After Cooking—Clean with—Gold Dust." (For Advertising Purposes for Gold Dust Washing Powder.) N. K. Fairbank Company. No. 6,431; Nov. 21.
- "Allen's Automobile Light Shades." (For Advertising Purposes for Adjustable and Flexible Light Shades to Protect the Driver of an Automobile Coming from the Opposite Direction Which May be Adjusted to Either Side of the Lights as May be Required.) Edgar W. Allen. No. 6,070; Apr. 25.
- "Alteration Piano Sale." (For Advertising Purposes for Pianos.) Boston Piano Co. No. 6,197; July 4.
- "Always Charming!" (For Advertising Purposes for Coconut-Oil Shampoo.) R. L. Watkins Company. No. 6,291; Aug. 29.
- "Always Refreshing Beech-Nut Chewing Gum." (For Advertising Purposes for Beech-Nut Chewing Gum.) Beech-Nut Packing Company. No. 6,344; Oct. 24.
- "Always Refreshing Beech-Nut Gum." (For Advertising Purposes for Beech-Nut Gum.) Beech-Nut Packing Company. No. 6,341; Oct. 24.
- "American Brand Corset Laces." (For Advertising Purposes for Corset Laces.) American Narrow Fabric Co. No. 5,981; Feb. 21.

Alphabetical list of prints—Continued.

- "Ampico." (For Advertising Purposes for Pianos, Piano Players, and Player Pianos.) American Piano Company. No. 6,223; July 25.
- "Ampico." (For Advertising Purposes for Pianos, Piano Players, Player Pianos.) American Piano Company. No. 6,359; Oct. 31.
- "An American Flashlight—A Vacation Necessity." (For Advertising Purposes for American Flashlights.) National Carbon Co. No. 5,936; Jan. 17.
- "An Old Friend." (For Advertising Purposes for Wheat Breakfast Food.) Cream of Wheat Co. No. 6,333; Oct. 17.
- "Anderson Engines Are Good Engines." (For Advertising Purposes for Internal-Combustion Engines.) Anderson Engine Company. No. 6,323; Oct. 10.
- "Announcing The 1923 Haynes Four Sport Models." (For Advertising Purposes for Automobiles.) Haynes Automobile Company. No. 6,452; Dec. 5.
- "Are you giving your hair the right treatment?" (For Advertising Purposes for Palmolive Shampoo.) Palmolive Company. No. 6,302; Sept. 5.
- "Are Your Eyes worth a pair of Goggles?" (For Advertising Purposes for Goggles.) Willson Goggles, Inc. No. 6,490; Dec. 26.
- "Ask For Hires and Get The Genuine." (For Advertising Purposes for a Soft Drink.) The Charles E. Hires Company. No. 6,042; Mar. 14.
- "At Grandmothers." (For Advertising Purposes for Jell-O, a Dessert Preparation.) Genesee Pure Food Company. No. 6,334; Oct. 17.
- "At last—the perfect drink!" (For Advertising Purposes for a Cereal Food Drink.) Koffee-O Cereal Co. No. 6,353; Oct. 24.
- "Aunt Molly's Butter Creams." (For Advertising Purposes for Butter Creams.) Milwaukee Paper Box Company. No. 6,111; May 9.
- "B. V. D. Loose Fitting Closed Crotch Union Suits." (For Advertising Purposes for Athletic Underwear.) B. V. D. Company. No. 6,427; Nov. 21.
- "Baby-Bo Milk Nut." (For Advertising Purposes for a Milk Nut Bar.) Milwaukee Paper Box Company. No. 6,190; June 27.
- "Bachelor Almond Bar." (For Advertising Purposes for an Almond Bar.) Milwaukee Paper Box Company. No. 6,115; May 9.
- "Baker Brush." (For Advertising Purposes for Paint Brushes.) Baker Brush Co. Inc. No. 6,157; June 20.
- "Banner Brush." (For Advertising Purposes for Brushes.) Milwaukee Paper Box Company. No. 6,090; May 2.
- "Be Coffee Wise Not Coupon Foolish." (For Advertising Purposes for Coffee.) Merchants Coffee Co. No. 6,043; Mar. 14.
- "Be it large or small." (For Advertising Purposes for "61" Floor Varnish.) Pratt & Lambert—Inc. No. 6,444; Nov. 28.
- "Be Sure It's a Columbia for Every Dry Battery Use." (For Advertising Purposes for Columbia Ignitor Batteries and Columbia Hot Shot Batteries.) National Carbon Co. No. 5,928; Jan. 17.
- "Beauty Brows." (For Advertising Purposes for Eyeglasses and Spectacles.) Frank G. Murphy. No. 6,202; July 4.
- "Beauty Wins." (For Advertising Purposes for Coconut Oil Shampoo.) R. L. Watkins Company. No. 6,290; Aug. 29.
- "Beech-Nut Chewing Gum Always Refreshing." (For Advertising Purposes for Beech-Nut Chewing Gum.) Beech-Nut Packing Co. No. 6,342; Oct. 24.
- "Beech-Nut Macaroni and Spaghetti." (For Advertising Purposes for Beech-Nut Brand Macaroni.) Beech-Nut Packing Company. No. 5,993; Feb. 28.
- "Beech-Nut Mints." (For Advertising Purposes for Beech-Nut Mints.) Beech-Nut Packing Company. No. 6,345; Oct. 24.
- "Beech-Nut Mints 'They Melt on Your Tongue'." (For Advertising Purposes for Beech-Nut Mints.) Beech-Nut Packing Company. No. 6,381; Nov. 7.
- "Beech-Nut Pork and Beans—as Fine a Product as Beech-Nut Bacon." (For Advertising Purposes for Beech-Nut Brand Pork and Beans.) Beech-Nut Packing Company. No. 5,994; Feb. 28.
- "Beech-Nut Pork and Beans—as fine a product as Beech-Nut Bacon." (For Advertising Purposes for Beech-Nut Pork and Beans.) Beech-Nut Packing Co. No. 6,343; Oct. 24.
- "Beech-Nut Sliced Bacon." (For Advertising Purposes for Beech-Nut Brand Bacon.) Beech-Nut Packing Company. No. 5,995; Feb. 28.
- "Beech-Nut Sliced Bacon." (For Advertising Purposes for Beech-Nut Sliced Bacon.) Beech-Nut Packing Company. No. 6,346; Oct. 24.
- "Bet your life, old pal—nothing but P. A. in this pipe!" (For Advertising Purposes for Smoking Tobacco.) R. J. Reynolds Tobacco Company. No. 5,939; Jan. 17.
- "Better Health from a Better Dentifrice." (For Advertising Purposes for Tooth Paste and a Liquid Antiseptic.) Pyroclento Company. No. 5,913; Jan. 10.
- "Better than Jewels." (For Advertising Purposes for Palmolive Soap.) Palmolive Company. No. 6,191; June 27.
- "Better Than Riches." (For Advertising Purposes for Drugs.) E. R. Squibb & Sons. No. 6,142; May 30.
- "Better White Duck Clothing." (For Advertising Purposes for White Duck Clothing.) James E. Richards Company. No. 6,012; Feb. 28.
- "Better White Duck Clothing November, 1922." (For Advertising Purposes for White Duck Clothing.) James E. Richards Company. No. 6,450; Nov. 28.
- "Big Eyes." (For Advertising Purposes for Tobacco.) Latham Litho & Printing Co. No. 5,925; Jan. 17.
- "Black & White." (For Advertising Purposes for Fountain Pens.) Salz Brothers. No. 6,151; June 6.
- "Blue Band Velvet Pencils." (For Advertising Purposes for Velvet Pencils.) American Lead Pencil Co. No. 6,020; Mar. 14.
- "Blue Band Velvet Pencils." (For Advertising Purposes for Velvet Pencils.) American Lead Pencil Co. No. 6,067; Apr. 18.
- "Blue Flag Timer." (For Advertising Purposes for a Timer Designed Particularly for Ford Cars, Tractors, and Trucks.) Chicago Timer Factory Inc. No. 5,952; Feb. 14.
- "Bob-Curl." (For Advertising Purposes for a Hair-Curling Preparation.) W. B. Madder. No. 6,307; Sept. 12.
- "Boncella." (For Advertising Purposes for a Beautifier.) Crown Chemical Company. No. 6,160; June 20.
- "Bosch Compensating Battery Ignition." (For Advertising Purposes for Ignition Apparatus.) American Bosch Magneto Corporation. No. 5,915; Jan. 17.
- "Brer Rabbit Kisses." (For Advertising Purposes for Candy Kisses.) Brer Rabbit Candy Co. No. 5,905; Jan. 10.
- "Brewer's Questionnaire." (For Advertising Purposes for Game Boards.) Chas. A. Brewer & Sons. No. 6,183; June 27.
- "Brillo Cleanser." (For Advertising Purposes for Aluminum Utensil Cleanser and Polisher.) Brillo Manufacturing Co. No. 6,056; Apr. 4.
- "Brillo Makes Old Aluminum Utensils New." (For Advertising Purposes for Cleaning and Polishing Outfits for Aluminum Utensils.) Brillo Manufacturing Company. No. 6,158; June 20.
- "Bringing Home the Baking." (For Advertising Purposes for Federal Bread.) Federal System of Bakeries of America. No. 5,957; Feb. 14.
- "Byron Weston Co. Dalton, Mass. Manufacturers of Linen Ledger and Bond Papers." (For Advertising Purposes for Paper.) Byron Weston Company. No. 6,099; May 9.
- "C. V. That Ever Welcome Beverage." (For Advertising Purposes for a Nonalcoholic Beverage.) Terre Haute Brewing Company. No. 6,424; Nov. 14.
- "C. W. G. (Corrugated Wire Glass)." (For Advertising Purposes for Corrugated Wire Glass.) Pennsylvania Wire Glass Company. No. 6,009; Feb. 28.
- "Carmote the Perfect Floor Varnish Stands Hard Knocks." (For Advertising Purposes for Carmote Varnish.) Carpenter-Morton Co. No. 5,951; Feb. 14.
- "Cas-Pirin." (For Advertising Purposes for Medicine for Colds, La Grippe, Influenza, Headache.) Acme Drug Co. No. 6,154; June 20.
- "Cattaraugus Scout." (For Advertising Purposes for Knives.) Cattaraugus Cutlery Co. No. 6,254; Aug. 8.
- "Celery Phos-fo." (For Advertising Purposes for Medicinal Preparation Named Celery Phos-fo.) Gotham Chemical Company, Inc. No. 6,075; Apr. 25.
- "Certificate of Purchase." (For Advertising Purposes for Freckle Cream.) Sunny Susan Laboratories, Inc. No. 6,249; Aug. 1.
- "Channell Fence Company, Inc." (For Advertising Purposes for a Combination Wood and Wire Fence.) Channell Fence Company. No. 6,273; Aug. 29.
- "Chero Cola." (For Advertising Purposes for a Soft Drink.) Chero Cola Company. No. 6,072; Apr. 25.
- "Chero-Cola There's None So Good." (For Advertising Purposes for a Soft Drink.) Chero-Cola Company. No. 5,999; Feb. 28.
- "Cherries." (For Advertising Purposes for Chocolate Covered Cherries in Cream.) Milwaukee Paper Box Company. No. 6,089; May 2.
- "Chocolate for the Sportsman!" (For Advertising Purposes for Chocolate.) Eline's Incorporated. No. 6,437; Nov. 28.
- "Choc-O-Mint Do-Nut." (For Advertising Purposes for a Candy Specialty.) Milwaukee Paper Box Company. No. 6,005; Feb. 28.
- "Choice Box Card." (For Advertising Purposes for Candy.) Robert A. Johnston Co. No. 6,316; Oct. 3.
- "Climax Baby." (For Advertising Purposes for Children's and Ladies' Sanitary Goods.) Climax Specialty Company. No. 6,000; Feb. 28.
- "Coals." (For Advertising Purposes for Coal.) F. A. Bassett. No. 6,211; July 18.
- "Coco Ridges." (For Advertising Purposes for Chocolate-Covered Coconut Bars.) Milwaukee Paper Box Company. No. 6,116; May 9.
- "Coffee Talks." (For Advertising Purposes for Coffee.) Hill Bros. No. 6,239; Aug. 1.
- "Colgate's cleans beautiful teeth the right way." (For Advertising Purposes for Colgate's Ribbon Dental Cream.) Colgate & Co. No. 6,350; Oct. 24.

Alphabetical list of prints—Continued.

- "Colored Goggles Sun-Dust Wind-Glare." (For Advertising Purposes for Goggles.) Willson Goggles, Inc. No. 6,489; Dec. 26.
- "Columbia Batteries." (For Advertising Purposes for Columbia Batteries.) National Carbon Co. No. 5,933; Jan. 17.
- "Columbia Batteries for Door Bells & Buzzers." (For Advertising Purposes for Columbia Batteries.) National Carbon Co. No. 5,929; Jan. 17.
- "Columbia Batteries for Ford Starting." (For Advertising Purposes for Columbia Batteries.) National Carbon Co. No. 5,932; Jan. 17.
- "Columbia Batteries for Gas Engines." (For Advertising Purposes for Columbia Batteries.) National Carbon Co. No. 5,930; Jan. 17.
- "Columbia Batteries for Toys and Wireless." (For Advertising Purposes for Columbia Batteries.) National Carbon Co. No. 5,931; Jan. 17.
- "Columbia Storage Batteries." (For Advertising Purposes for Columbia Storage Batteries.) National Carbon Co. No. 5,938; Jan. 17.
- "Combination Last." (For Advertising Purposes for Shoes.) Lounsbury Soule Co. No. 5,909; Jan. 10.
- "Comfort And Long Wear Assured." (For Advertising Purposes for Athletic Underwear.) B. V. D. Company, The. No. 6,071; Apr. 25.
- "Complete In a Sack." (For Advertising Purposes for "Elastic," an Exterior Wall Plaster or Stucco.) U. S. Materials Co. No. 6,271; Aug. 15.
- "Construction Features That Make 'Foot-Fitters' Stay Stylish and Comfortable." (For Advertising Purposes for Shoes.) Edmonds Shoe Company. No. 6,403; Nov. 14.
- "Coopers Union Suits Made By Coopers." (For Advertising Purposes for Men's, Women's, and Children's Underwear.) Cooper Underwear Company. No. 6,132; May 30.
- "Cotton Fabrics that Insure Profits." (For Advertising Purposes for Cotton Piece Goods.) Baum, Strauss & Co. No. 6,144; June 6.
- "Crane's Baltimore Ice Cream." (For Advertising Purposes for Ice Cream.) Crane Ice Cream Company. No. 5,955; Feb. 14.
- "Cream of Wheat." (For Advertising Purposes for Wheat Breakfast Food.) Cream of Wheat. No. 6,161; June 20.
- "Cream of Wheat." (For Advertising Purposes for Wheat Breakfast Food.) Cream of Wheat Co. No. 6,224; July 25.
- "Crowned With Wealth Of Vitamines." (For Advertising Purposes for Beverages and Ingredients Thereof.) Douglas & Burns, Ltd. No. 6,314; Oct. 3.
- "Cupped Heel Seat." (For Advertising Purposes for Shoes.) Lounsbury Soule Co. No. 5,910; Jan. 10.
- "Cushion Top." (For Advertising Purposes for Wardrobe Trunks.) Hartmann Trunk Co. No. 6,438; Nov. 28.
- "Daintee Corn Holder." (For Advertising Purposes for a Corn Holder.) W. L. Shaughnessy Co. No. 6,092; May 2.
- "Dandrider." (For Advertising Purposes for Hair Tonic.) L. J. Wantland. No. 6,222; July 18.
- "Decide This To-Day." (For Advertising Purposes for Dwelling Houses.) G. J. Ulrich. No. 6,320; Oct. 3.
- "Dependability Plus." (For Advertising Purposes for Drugs.) E. R. Squibb & Sons. No. 6,257; Aug. 8.
- "Derryvale." (For Advertising Purposes for Linen Piece Goods—Namely, Irish Linen.) Derryvale Linen Co. No. 6,402; Nov. 14.
- "Detroit Creamery Velvet Brand Ice Cream." (For Advertising Purposes for Ice Cream.) Frederick C. Mathews Company. No. 6,088; May 2.
- "Dinty's Sheep Coat." (For Advertising Purposes for Sheep-Lined Coats.) Simon Coat Co. No. 6,093; May 2.
- "Don't say Cigar—say Judge." (For Advertising Purposes for Cigars.) G. H. Thompson. No. 6,400; Nov. 7.
- "Double Knot Salmon Gill Netting." (For Advertising Purposes for Threads and Netting.) Linen Thread Company. No. 5,968; Feb. 14.
- "Dr. Paul Wetzel's Elastic Arch-Gripper." (For Advertising Purposes for a Circular Elastic Arch-Gripper.) P. Wetzel. No. 6,251; Aug. 1.
- "Dr. Price's Vanilla Gives to Cakes." (For Advertising Purposes for a Flavoring Extract.) Price Flavoring Extract Co. No. 6,053; Mar. 14.
- "Dresses That Really Slenderize The Stout Woman." (For Advertising Purposes for Ladies' Dresses.) Baum, Kravat & Baum. No. 6,097; May 9.
- "Drink Coca-Cola." (For Advertising Purposes for Coca-Cola.) Coca-Cola Company, The. Nos. 5,953-4; Feb. 14.
- "Drink Coca-Cola." (For Advertising Purposes for Coca-Cola.) Coca-Cola Company. No. 6,348; Oct. 24.
- "Drink Coca-Cola Delicious and Refreshing." (For Advertising Purposes for Coca-Cola.) Coca-Cola Co. No. 6,347; Oct. 24.
- "Drink Coca-Cola Delicious and Refreshing." (For Advertising Purposes for Coca-Cola.) Coca-Cola Company. No. 6,349; Oct. 24.
- "Drink Coca-Cola Delicious and Refreshing." (For Advertising Purposes for Coca-Cola.) Coca-Cola Co. No. 6,401; Nov. 14.
- "Drink Coca-Cola the Year-Round Drink." (For Advertising Purposes for Coca-Cola.) Coca-Cola Company. No. 5,984; Feb. 21.
- "Duck Clothing." (For Advertising Purposes for White Duck Clothing.) The James E. Richards Company. No. 6,247; Aug. 1.
- "Easy to Play." (For Advertising Purposes for Player-Pianos.) Gulbranson, Dickinson Company. No. 5,986; Feb. 21.
- "Eat Eline's Sweet Milk Chocolate." (For Advertising Purposes for Chocolate.) Eline's Incorporated. No. 6,408; Nov. 14.
- "Eaton's Highland Linen, Strange, isn't it, dear, that you should accept Jack on Eaton's Highland Linen, the same paper I used when I said Yes to your father." (For Advertising Purposes for Eaton's Highland Linen.) Eaton, Crane & Pike Company. No. 6,185; June 27.
- "Eaton's Highland Linen The Correct Writing Paper." (For Advertising Purposes for Eaton's Highland Linen.) Eaton, Crane & Pike Company. No. 6,261; Aug. 15.
- "Egyptian Mineral Co. Silica." (For Advertising Purposes for Silica.) Egyptian Mineral Co. No. 5,918; Jan. 17.
- "Elastic Girdle." (For Advertising Purposes for Girdles.) C. A. Faust. No. 6,016; Mar. 7.
- "Elastic." (For Advertising Purposes for an Exterior Wall Plaster or Stucco.) U. S. Materials Co. No. 6,270; Aug. 15.
- "Eldorado Brand Typewriter Ribbons, Non-Filling and Durable." (For Advertising Purposes for Eldorado Typewriter Ribbons.) National Paper & Type Co., The. No. 6,203; July 4.
- "Encourage The Kiddies To Write And Draw." (For Advertising Purposes for Pony Desks.) C. L. Anderson. No. 6,156; June 20.
- "End of the Hunt." (For Advertising Purposes for Coffee.) Hills Bros. No. 6,086; May 2.
- "Envelope Calendar." (For Advertising Purposes for Envelopes.) Bourke-Rice Envelope Company. No. 5,949; Feb. 14.
- "Eskimo Pie." (For Advertising Purposes for an Ice-Cream Confection.) United States Foil Co. No. 6,066; Apr. 4.
- "Eskimo Pie." (For Advertising Purposes for Confections.) Russell Stover Company. No. 6,139; May 30.
- "Eversharp Ribbon Guard." (For Advertising Purposes for Ribbon Guards.) The Wahl Company. No. 6,013; Feb. 28.
- "Exclusive Features of Real Silk Fashioned Hosiery." (For Advertising Purposes for Hosiery.) Real Silk Hosiery Mills. No. 6,118; May 9.
- "Experience in the Wearing of B. V. D. Underwear." (For Advertising Purposes for Athletic Underwear.) B. V. D. Company. No. 6,312; Oct. 3.
- "Eyes Tired?" (For Advertising Purposes for Goggles.) Willson Goggles, Inc. No. 6,488; Dec. 26.
- "Factory Pianos." (For Advertising Purposes for Pianos.) Boston Piano Co. No. 6,196; July 4.
- "Fair Soap Two Convenient Sizes." (For Advertising Purposes for Fair Soap for Toilet and Bath.) N. K. Fairbank Company. No. 5,920; Jan. 17.
- "Featuring The Non Rip Silk Hosiery." (For Advertising Purposes for Hosiery.) Non-Rip Silk Hosiery Mills Inc. No. 6,217; July 18.
- "First—last—and always." (For Advertising Purposes for Coffee.) Hills Bros. No. 6,241; Aug. 1.
- "Flashlights Batteries Fortified to Give Longer Service." (For Advertising Purposes for American Flashlights and Batteries.) National Carbon Co. No. 5,934; Jan. 17.
- "Flashlights—Batteries Puts Night to Flight." (For Advertising Purposes for American Flashlights and Batteries.) National Carbon Co. No. 5,937; Jan. 17.
- "For All the Family Fair Soap." (For Advertising Purposes for Fair Soap for Toilet and Bath.) N. K. Fairbank. No. 5,946; Jan. 31.
- "For Babies' Irritated Skin and Grown-ups too." (For Advertising Purposes for Kora-Konia, a Soothing Healing Powder.) Mennen Company. No. 6,366; Oct. 31.
- "For Men who work and play outdoors—." (For Advertising Purposes for Men's and Boys' Underwear.) Wright's Underwear Company. No. 6,456; Dec. 5.
- "For Out of Door Comfort." (For Advertising Purposes for Goggles.) Willson Goggles Inc. No. 6,491; Dec. 26.
- "Frederics Method." (For Advertising Purposes for Apparatus, Devices, and Appliances for Permanent Hair Waving.) E. Frederics, Inc. No. 6,068; Apr. 18.
- "Frederics Method." (For Advertising Purposes for Apparatus, Devices, and Appliances for Permanent Hair Waving.) E. Frederics, Inc. No. 6,069; Apr. 18.
- "Freeplay." (For Advertising Purposes for Baseball Uniforms.) Van Cott Bros. Inc. No. 6,357; Oct. 24.
- "Frigid Freezer." (For Advertising Purposes for Ice-Cream Freezers.) Steinfeld Bros. No. 6,123; May 9.
- "Frisky Squirrel Prepares for Winter." (For Advertising Purposes for Breakfast Food.) Breakfast Brownies Company. No. 6,038; Mar. 14.
- "From Daddy to Laddie." (For Advertising Purposes for Lamb and Leather Lined Coats.) T. W. Stevenson Co. No. 5,991; Feb. 21.

- "From Ocean To Ocean—From Pines To Palms." (For Advertising Purposes for Candy.) Armut Mfg. Company. The. No. 6,014; Mar. 7.
- "Frost-Bite." (For Advertising Purposes for Ice Cream.) Frederick C. Mathews Company. No. 6,365; Oct. 31.
- "Fruit and Nut Bars." (For Advertising Purposes for a Fruit and Nut Bar.) Milwaukee Paper Box Company. No. 6,167; June 20.
- "Fruitsmax." (For Advertising Purposes for Assorted Fruit Bonbons.) Milwaukee Paper Box Company. No. 6,078; Apr. 25.
- "Fyredrop." (For Advertising Purposes for Gasoline.) W. H. Barber Company. No. 6,272; Aug. 29.
- "G. M. C. Metallic Grease." (For Advertising Purposes for Lubricating Grease.) Gearo Mfg. Co. No. 6,003; Feb. 28.
- "Gaudin's Relief Pencil." (For Advertising Purposes for Relief Pencils, Used in Forming Raised Designs, Letters, etc.) Frank R. Gaudin. No. 6,002; Feb. 28.
- "Get him a box for Christmas." (For Advertising Purposes for Hosiery.) Interwoven Stocking Company, The. No. 5,964; Feb. 14.
- "Giving Wings To Words." (For Advertising Purposes for Typewriting Machines.) Underwood Typewriter Company. No. 6,081; Apr. 25.
- "Glacier Trail." (For Advertising Purposes for Road Markers.) F. C. Thornton. No. 5,979; Feb. 14.
- "Gladys." (For Advertising Purposes for Glover's Mange Medicine.) H. Clay Glover Co. No. 6,126; May 16.
- "Golden Nugget Fudge." (For Advertising Purposes for Fudge.) A. Olsen, Jr. No. 5,974; Feb. 14.
- "Good Business." (For Advertising Purposes for Shaving Cream.) Palmolive Company. No. 6,174; June 20.
- "Goody Cake." (For Advertising Purposes for Candy Bars.) Milwaukee Paper Box Company. No. 6,266; Aug. 15.
- "Grandpa Beaver Entertains the Brownies." (For Advertising Purposes for Breakfast Food.) Breakfast Brownies Company. No. 6,030; Mar. 14.
- "Great Loaf." (For Advertising Purposes for Bread.) Hatch Advertising and Sales Service. No. 6,280; Aug. 29.
- "Greene Line Big Five Taps." (For Advertising Purposes for Sole Leather.) Mt. Union Tanning-Extract Co. No. 6,244; Aug. 1.
- "Gunz-Durler Candies." (For Advertising Purposes for Candy.) Milwaukee Paper Box Company. No. 6,114; May 9.
- "Harriet Hubbard Ayer." (For Advertising Purposes for Toilet Preparations.) Harriet Hubbard Ayer. No. 6,305; Sept. 12.
- "Handy Hanson." (For Advertising Purposes for Scales.) Hanson Brothers Scale Company. No. 6,279; Aug. 29.
- "Have you an old table." (For Advertising Purposes for "61" Floor Varnish.) Pratt & Lambert—Inc. No. 6,443; Nov. 28.
- "Hearn Baby Castile." (For Advertising Purposes for Soap.) James A. Hearn & Son, Inc. No. 6,282; Aug. 29.
- "Heat by the Roomful." (For Advertising Purposes for Perfection Oil Heaters.) Cleveland Metal Products Company. No. 5,983; Feb. 21.
- "Heat Can't Escape, Cold Can't Get In." (For Advertising Purposes for Men's and Boys' Underwear.) Wright's Underwear Company. No. 6,454; Dec. 5.
- "Heinz Fruits and Vegetables are grown in the Garden Spots of the World." (For Advertising Purposes for Heinz 57 Varieties of Products.) H. J. Heinz Co. No. 6,262; Aug. 15.
- "Heinz Vinegars Every Drop Awakens Flavor." (For Advertising Purposes for Heinz Vinegars.) H. J. Heinz Co. No. 6,226; July 25.
- "He'll Say It's a Whale of a Gift." (For Advertising Purposes for Smoking Tobacco.) R. J. Reynolds Tobacco Company. No. 6,064; Apr. 4.
- "Help! Save the Lamp." (For Advertising Purposes for American Flashlights.) National Carbon Co. No. 5,935; Jan. 17.
- "Hills Bros. Red Can Coffee." (For Advertising Purposes for Coffee.) Hills Bros. No. 5,923; Jan. 17.
- "Hinds Honey and Almond Cream." (For Advertising Purposes for Toilet Preparations.) A. S. Hinds Co. No. 6,361; Oct. 31.
- "His Bodyguard." (For Advertising Purposes for Wheat Breakfast Food.) Cream of Wheat Co. No. 6,001; Feb. 28.
- "His Two Best Friends." (For Advertising Purposes for Wheat Breakfast Food.) Cream of Wheat Co. No. 6,426; Nov. 21.
- "Hohlweck's Original Cinnamon Balls." (For Advertising Purposes for Cinnamon Balls.) Milwaukee Paper Box Company. No. 6,374; Oct. 31.
- "Homaid Freezer." (For Advertising Purposes for Ice-Cream Freezers.) Steinfeld Bros. No. 6,121; May 9.
- "Hoods Old-fashioned Ice Cream." (For Advertising Purposes for Ice Cream.) H. P. Hood & Sons, Inc. Nos. 5,906-7; Jan. 10.
- "Hope Hampton Hats." (For Advertising purposes for Hats.) Belafsky Brothers. No. 6,179; June 27.
- "Hose Mulconroy." (For Advertising Purposes for Hose for Conveying Steam, Water, Air, Oil, Gas, Gasoline, Chemicals, Paint, Sand, Etc.) Mulconroy Company, Inc. No. 6,209; July 11.
- "How the Lost Baby Bear Finds His Supper." (For Advertising Purposes for Breakfast Food.) Breakfast Brownies Company. No. 6,027; Mar. 14.
- "How to Add More Gloss and Lustre to Your Hair." (For Advertising Purposes for Glostora.) R. L. Watkins Company. No. 6,377; Oct. 31.
- "How To Have Really Beautiful Hair." (For Advertising Purposes for Watkins Multisified Coconut-Oil Shampoo.) R. L. Watkins Company. No. 6,330; Oct. 10.
- "How to Keep Your Hair Rich-Looking, Neat, and Orderly." (For Advertising Purposes for Glostora.) R. L. Watkins Company. No. 6,376; Oct. 31.
- "How To Use This Sample of Lotus Hair Color Restorer." (For Advertising Purposes for the Lotus Preparation for the Hair.) Lotus Co. No. 6,128; May 16.
- "Hurry! Daddy." (For Advertising Purposes for Jell-O, a Dessert Preparation.) Genesee Pure Food Company. No. 6,315; Oct. 3.
- "Hypex." (For Advertising Purposes for Sleeve Valves for Internal-Combustion Engines.) W. W. Tompkins. No. 6,234; July 25.
- "I Ain't Mad at Nobody!" (For Advertising Purposes for an Ice-Cream Confection.) United States Foil Company. No. 6,065; Apr. 4.
- "I have written a letter of recommendation for you, Celeste." (For Advertising Purposes for Eaton's Highland Linen.) Eaton, Crane & Pike Company. No. 6,163; June 20.
- "I Love My Plivertick Candy." (For Advertising Purposes for Candy.) Candy Craft, Inc. No. 6,131; May 30.
- "I see by the paper that Marjorie has improved in her taste." (For Advertising Purposes for Eaton's Highland Linen.) Eaton, Crane & Pike Company. No. 6,073; Apr. 25.
- "Ideal Can Spout." (For Advertising Purposes for a Detachable Spout for Containers.) Ideal Novelty Company. No. 6,188; June 27.
- "Indestructo." (For Advertising Purposes for Varnish.) West Varnish Co. No. 6,095; May 2.
- "Ink-Eau Indelible Duplicating Pencil." (For Advertising Purposes for Indelible Pencils.) American Lead Pencil Company. No. 6,293; Sept. 5.
- "Inseparable! Healthful, Refreshing Cleanliness, and—Fairy Soap." (For Advertising Purposes for Fairy Soap.) N. K. Fairbank Company, The. No. 6,058; Apr. 4.
- "Instant Postum." (For Advertising Purposes for Postum Cereal.) Postum Cereal Company. Nos. 6,327-8; Oct. 10.
- "Interwoven Socks Light Weight Ribbed Wools." (For Advertising Purposes for Hosiery.) Interwoven Stocking Company. No. 5,963; Feb. 14.
- "It Costs You $\frac{1}{16}$ of a Cent a Cleaning." (For Advertising Purposes for Toothpaste.) Wrigley Pharmaceutical Co. No. 6,194; June 27.
- "It's P. A. that jams such joy in jimmy pipes!" (For Advertising Purposes for Smoking Tobacco.) R. J. Reynolds Tobacco Company. No. 5,940; Jan. 17.
- "Jack Rabbit acts as a Cab." (For Advertising Purposes for Breakfast Food.) Breakfast Brownies Company. No. 6,182; June 27.
- "Jiffe." (For Advertising Purposes for Nail Polish.) G. D. Earl. No. 6,198; July 4.
- "Jiffy Folding Card Table De Luxe." (For Advertising Purposes for Folding Card Tables.) Steinfeld Bros. No. 6,206; July 4.
- "John Bright." (For Advertising Purposes for Cleaning Compounds.) S. D. Benoliel. No. 6,324; Oct. 10.
- "Johnson's Prepared Wax." (For Advertising Purposes for Prepared Wax.) Milwaukee Paper Box Company. No. 6,044; Mar. 14.
- "Kant-Skore Pistons Weigh Lightest-Fit Tightest." (For Advertising Purposes for Pistons.) Kant-Skore Piston Company, The. No. 6,189; June 27.
- "Keep Clean With—Gold Dust." (For Advertising Purposes for Gold Dust Washing Powder.) N. K. Fairbank Company, The. No. 6,015; Mar. 7.
- "Keep That Wedding Day Complexion." (For Advertising Purposes for Palmolive Soap.) The Palmolive Company. No. 6,061; Apr. 4.
- "Keeping a Child's Hair Beautiful." (For Advertising Purposes for Watkins's Multisified Coconut-Oil Shampoo.) R. L. Watkins Company. No. 6,379; Oct. 31.
- "Kenyon Cord Tires and Tubes." (For Advertising Purposes for Rubber Tires and Tubes.) C. Kenyon Company. No. 6,442; Nov. 28.
- "Kept Clean and 'Safe' with Gold Dust." (For Advertising Purposes for Gold Dust Washing Powder.) N. K. Fairbank Company. No. 5,919; Jan. 17.
- "Kept Clean With Gold Dust." (For Advertising Purposes for Gold Dust Washing Powder.) N. K. Fairbank. No. 5,945; Jan. 31.
- "Kept Clean With Gold Dust." (For Advertising Purposes for Gold Dust Washing Powder.) N. K. Fairbank Company. No. 5,947; Jan. 31.

Alphabetical list of prints—Continued.

- "Kept Clean with Gold Dust." (For Advertising Purposes for Gold Dust Washing Powder.) N. K. Fairbank Company, The. No. 5,956; Feb. 14.
- "Kept Clean With Gold Dust." (For Advertising Purposes for Gold Dust Washing Powder.) N. K. Fairbank Company. Nos. 6,277-8; Aug. 29.
- "Kept Clean With—Gold Dust." (For Advertising Purposes for Gold Dust Washing Powder.) N. K. Fairbank Company. No. 6,351; Oct. 24.
- "Kept Clean With Gold Dust—Still 5¢." (For Advertising Purposes for Gold Dust Washing Powder.) N. K. Fairbank. No. 5,944; Jan. 31.
- "Kill The Fly." (For Advertising Purposes for Shepard Fly and Insect Killer and Also Shepard Cattle Spray and Veterinary Liniment.) Shepard Chemical Co. Inc. No. 6,318; Oct. 3.
- "Kirk's Cocoa Hardwater Castile." (For Advertising Purposes for Soap.) James S. Kirk & Company. Nos. 6,363-4; Oct. 31.)
- "Knitted Outerwear deserves the preference." (For Advertising Purposes for Knitted Outerwear.) Sweater & Knitted Textile Publicity Bureau, Inc. No. 6,233; July 25.
- "Knock 'em over." (For Advertising Purposes for a Game.) G. Schneider. No. 6,176; June 20.
- "Kora-Konia A Soothing Healing Powder." (For Advertising Purposes for Kora-Konia.) Mennen Company. No. 6,372; Oct. 31.
- "Kora-Konia For Oclaper Rash Teething Rash Prickly Heat Scalding Chafing, etc., etc." (For Advertising Purposes for Kora-Konia.) Mennen Company. No. 6,370; Oct. 31.
- "Kora-Konia For Skin Irritations made by Mennen—but not a Talcum." (For Advertising Purposes for Kora-Konia Toilet Powder.) Mennen Company. No. 6,389; Nov. 7.
- "Krank's Lemon Cleansing Cream." (For Advertising Purposes for a Cleansing Cream.) A. J. Krank. No. 6,263; Aug. 15.
- "Krinkle Tex Fabric." (For Advertising Purposes for Cotton Piece Goods.) Oppenheim, Oberndorf & Co. No. 6,354; Oct. 24.
- "La Palina The Quality Cigar since 1896." (For Advertising Purposes for Cigars.) Congress Cigar Company. No. 6,159; June 20.
- "Lavatore." (For Advertising Purposes for a Hair Shampoo.) W. B. Madder. No. 6,335; Oct. 17.
- "Leaping Bass No. 1." (For Advertising Purposes for Fishing Tackle.) Enterprise Manufacturing Company. No. 6,214; July 18.
- "Leaping Bass No. 2." (For Advertising Purposes for Fishing Tackle.) Enterprise Manufacturing Company. No. 6,213; July 18.
- "Lemon." (For Advertising Purposes for Containers Containing a Cleansing Cream.) A. J. Krank Mfg. Company. No. 6,485; Dec. 26.
- "Linn Ball Lemon Jell-O." (For Advertising Purposes for Jell-O, a Dessert Preparation.) Genesee Pure Food Company. No. 6,384; Nov. 7.
- "Listo A Pencil Especially Made for You." (For Advertising Purposes for Lead Pencils.) Listo Pencil Company. No. 6,419; Nov. 14.
- "Little Jack Horner." (For Advertising Purposes for Jell-O, a Dessert Preparation.) Genesee Pure Food Company. No. 6,413; Nov. 14.
- "Little Simon." (For Advertising Purposes for Wheat Breakfast Food.) Cream of Wheat Co. No. 6,225; July 25.
- "Lor." (For Advertising Purposes for the Lor Parking Lamp.) D. C. Lucas. No. 6,326; Oct. 10.
- "Louis Joseph Vance's hand holding a package of Omar Cigarettes." (For Advertising Purposes for Cigarettes.) American Tobacco Company. No. 5,917; Jan. 17.
- "Lovejoy Hydraulic Shock Absorber." (For Advertising Purposes for Shock Absorbers.) Packard Engineering Co. Nos. 6,134-6; May 30.
- "Lovejoy Hydraulic Shock Absorbers." (For Advertising Purposes for Shock Absorbers.) Packard Engineering Co. No. 6,355; Oct. 24.
- "Lowell Metal Ceiling." (For Advertising Purposes for Metal Ceiling.) David Bordeleau. No. 6,180; June 27.
- "Luthy Batteries." (For Advertising Purposes for Storage Batteries.) Luthy Company. No. 5,926; Jan. 17.
- "Mack's Mum." (For Advertising Purposes for Shirts.) Raub & Mack Shirt Co. No. 6,204; July 4.
- "Made Better Antiseptic Tooth Paste." (For Advertising Purposes for Tooth Paste.) Milwaukee Paper Box Company. No. 6,166; June 20.
- "Made Mechanically Correct." (For Advertising Purposes for Steel Boats, Barges, Marine Engines, Boilers, and Equipment.) Marietta Manufacturing Company. No. 6,215; July 18.
- "Made to Order." (For Advertising Purposes for Shaving Cream.) Palmolive Company. No. 6,393; Nov. 7.
- "Make Your Dreams Come True." (For Advertising Purposes for Palmolive Soap.) Palmolive Company. No. 6,420; Nov. 14.
- "Makes All Figuring Easy as Turning the Crank." (For Advertising Purposes for Monroe Calculating Machines.) Monroe Calculating Machine Co. No. 6,201; July 4.
- "Makes Old Aluminum Utensils New." (For Advertising Purposes for Aluminum-Utensil Cleanser and Polisher.) Brillo Manufacturing Co. No. 6,055; Apr. 4.
- "Makes Things Taste Better Heinz Tomato Ketchup." (For Advertising Purposes for Heinz Tomato Ketchup.) Heinz, H. J., Co. No. 6,041; Mar. 14.
- "Makes Things Taste Better Heinz Tomato Ketchup." (For Advertising Purposes for Heinz Tomato Ketchup.) H. J. Heinz Co. No. 6,060; Apr. 4.
- "Making Palmolive 3,000 Years Ago." (For Advertising Purposes for Palmolive Soap.) Palmolive Company. No. 6,173; June 20.
- "Making Your Hair Improve Your Looks." (For Advertising Purposes for Watkins's Mulsified Coconut-Oil Shampoo.) R. L. Watkins Company. No. 6,375; Oct. 31.
- "Malo Milk Bar." (For Advertising Purposes for a Chocolate-Covered Almond and Nougat Bar.) Milwaukee Paper Box Company. No. 6,243; Aug. 1.
- "Mamma's Inside Buying My Mennen Talcum." (For Advertising Purposes for Mennen Talcum.) Mennen Company. No. 6,110; May 9.
- "Manischewitz Matzos." (For Advertising Purposes for Matzos.) B. Manischewitz Company. No. 5,970; Feb. 14.
- "Mastin says." (For Advertising Purposes for Tablets for Use in Cases of Anemia, Nervous Deficiency, Malnutrition, Disordered Metabolism, Physical Breakdown, Emaciation, Pellagra, Skin Trouble, and Lack of Energy and Endurance.) Mastin & Co. No. 6,004; Feb. 28.
- "Maxwell House Coffee." (For Advertising Purposes for Coffee.) Cheek-Neal Coffee Company. No. 6,313; Oct. 3.
- "Mennen Borated Talcum A Safeguard in the Nursery for Half a Century." (For Advertising Purposes for Mennen Talcum Powder.) Mennen Company. No. 6,386; Nov. 7.
- "Mennen Borated Talcum Safest for Baby." (For Advertising Purposes for Mennen's Talcum Powder.) Mennen Company. No. 6,368; Oct. 31.
- "Mennen Shaving Cream." (For Advertising Purposes for Mennen's Shaving Cream.) Mennen Company. No. 6,369; Oct. 31.
- "Mennen Shaving Cream Takes the fight out of the scrappiest beard that ever bristled." (For Advertising Purposes for Mennen Shaving Cream.) Mennen Company. No. 6,367; Oct. 31.
- "Mennen 'Talcum For Men' A Man's Powder made especially for Men." (For Advertising Purposes for Mennen's Talcum for Men.) Mennen Company. No. 6,388; Nov. 7.
- "Mercury Speed Patch." (For Advertising Purposes for a Self-Vulcanizing Rubber Repair Patch.) Milwaukee Paper Box Company. No. 6,168; June 20.
- "Metsan Aseptic Needles." (For Advertising Purposes for Aseptic Needles.) Metsan Dental Mfg. Co. No. 6,147; June 6.
- "Milady's Boudoir Pocket." (For Advertising Purposes for a Suspensible Pocket Device.) Jessie B. White. No. 6,082; Apr. 25.
- "Miss Lotta Lite." (For Advertising Purposes for Portable Lamps.) Greist Manufacturing Company. No. 6,306; Sept. 12.
- "Mittme." (For Advertising Purposes for Nonalcoholic Maltless Beverages and Sirups for Preparing the Same.) Robert Hill. No. 6,076; Apr. 25.
- "Moments Which Count." (For Advertising Purposes for Palmolive Soap.) Palmolive Company. No. 6,286; Aug. 29.
- "Mother, why is everybody saying 'Just the thing.'"
- "For Advertising Purposes for Eaton's Highland Linen.) Eaton, Crane & Pike Company. No. 6,074; Apr. 25.
- "Mountain Dew." (For Advertising Purposes for a Furniture Polish.) Bay State Fibre Company. No. 6,098; May 9.
- "Mov-Ezy Means Ease at the Movies." (For Advertising Purposes for Theater Chairs.) Josiah Partridge & Sons, Incorporated. No. 6,309; Sept. 12.
- "Mr. Pelican Helps Play Hide and Seek." (For Advertising Purposes for Breakfast Food.) Breakfast Brownies Company. No. 6,036; Mar. 14.
- "Mrs. Graf's Home Made 'candies.'" (For Advertising Purposes for Candy.) Milwaukee Paper Box Company. No. 5,973; Feb. 14.
- "Name-Pencils." (For Advertising Purposes for Pencils.) A. J. Coleman. No. 6,102; May 9.
- "Nasco." (For Advertising Purposes for After Dinner Mints.) Milwaukee Paper Box Company. No. 6,006; Feb. 28.
- "Na-Wa-Co." (For Advertising Purposes for a Powder for Sweaty Feet.) C. A. Lieberman. No. 5,967; Feb. 14.

- "New Home Demonstration Size of Hinds Complexion Creams." (For Advertising Purposes for the A. S. Hinds Co. Toilet Preparation.) A. S. Hinds Co. No. 6,439; Nov. 28.
- "New Line Willow Weave Wash Ties." (For Advertising Purposes for Tubular and Cut Wash Ties.) Willow Weaving Co. No. 6,380; Oct. 31.
- "1921 Lemon Jell-O." (For Advertising Purposes for Jell-O, a Dessert Preparation.) Genesee Pure Food Company. No. 6,412; Nov. 14.
- "1922 B. V. D. Magazine Ad." (For Advertising Purposes for Athletic Underwear.) B. V. D. Company. No. 6,100; May 9.
- "1922 Boys' B. V. D. Magazine Ad." (For Advertising Purposes for Athletic Underwear.) B. V. D. Company. No. 6,101; May 9.
- "No Home Complete Without a Sum-Vil Dry Mop." (For Advertising Purposes for Mops.) Somerville Brush Company. No. 6,231; July 25.
- "Nothing so Pretty as beautiful teeth." (For Advertising Purposes for Pepsodent Dentifrice.) Pepsodent Company. No. 6,397; Nov. 7.
- "Nothing so Pretty as beautiful teeth. Watch them whiten as the film-coats disappear." (For Advertising Purposes for Pepsodent Dentifrice.) Pepsodent Company. No. 6,396; Nov. 7.
- "Noveltex Fabrics." (For Advertising Purposes for Cotton Piece Goods in the Piece.) Noveltex, Inc. No. 6,337; Oct. 17.
- "Now for a quick smooth Shave with Mennen Shaving Cream." (For Advertising Purposes for Mennen's Shaving Cream.) Mennen Company. No. 6,387; Nov. 7.
- "Off 'N' On Chains." (For Advertising Purposes for Automobile Tire Chains.) Off 'N' On Chain Corporation. No. 6,169; June 20.
- "Office Coats." (For Advertising Purposes for White Duck Clothing.) James E. Richards Company. No. 5,941; Jan. 17.
- "Office Coats." (For Advertising Purposes for White Duck Clothing.) James E. Richards Company. No. 6,399; Nov. 7.
- "Old Fashion Chocolate Creams." (For Advertising Purposes for Chocolate Creams.) Milwaukee Paper Box Company. No. 6,007; Feb. 28.
- "On Your Way—Take Home a Brick." (For Advertising Purposes for Ice Cream.) Hendler Creamery Company. No. 6,416; Nov. 14.
- "Once You Try You'll Always Buy." (For Advertising Purposes for Cheese.) Roethlisberger & Co. No. 6,421; Nov. 14.
- "Onyx Hosiery." (For Advertising Purposes for Hosiery.) Emery & Beers Company. No. 6,383; Nov. 7.
- "Onyx Hosiery." (For Advertising Purposes for Hosiery.) Emery & Beers Company Inc. No. 6,410; Nov. 14.
- "Open your kitchen door for the Nesco boy with his famous Kitchen Utensils." (For Advertising Purposes for Kitchen Utensils.) National Enameling & Stamping Co., Inc. No. 6,080; Apr. 25.
- "Order Of Dippy Dips." (For Advertising Purposes for Game Boards.) Chas. A. Brewer & Sons. No. 6,184; June 27.
- "Oscar Mayer's Approved Meat Products." (For Advertising Purposes for Meat Products of Pork Variety.) Oscar Mayer & Company. No. 6,109; May 9.
- "Our Own Oil Liniment." (For Advertising Purposes for Liniments.) J. M. Kappus. No. 6,103; May 9.
- "Outdoor." (For Advertising Purposes for Tents and Portable Houses.) United States Tent & Awning Company. No. 6,054; Mar. 14.
- "Outstanding among the greatest motor car values of the year—The Haynes 55." (For Advertising Purposes for Automobiles.) Haynes Automobile Company. No. 6,429; Nov. 21.
- "Pan Kor." (For Advertising Purposes for Hollow Concrete Walls.) G. J. Engert. No. 6,105; May 9.
- "Parker Fountain Pen." (For Advertising Purposes for Fountain Pens.) Parker Pen Company. No. 5,988; Feb. 21.
- "Pay Me." (For Advertising Purposes for Coffee.) Ennis Hanly Blackburn Coffee Co. No. 6,411; Nov. 14.
- "Pepsodent The New-Day Dentifrice Protects Young Teeth." (For Advertising Purposes for Pepsodent Dentifrice.) Pepsodent Company. No. 6,395; Nov. 7.
- "Pepsodent The New-Day Tooth Paste Protects Young Teeth." (For Advertising Purposes for Pepsodent Dentifrice.) Pepsodent Company. No. 6,394; Nov. 7.
- "Perfected For You." (For Advertising Purposes for Drugs.) E. R. Squibb & Sons. No. 6,256; Aug. 8.
- "Perfection Peanut-Cream Bar." (For Advertising Purposes for a Peanut and Cream Bar.) Milwaukee Paper Box Company. No. 6,267; Aug. 15.
- "Peth's Candy Bars." (For Advertising Purposes for Candy Bars.) Milwaukee Paper Box Company. No. 6,283; Aug. 29.
- "Philipsborn's Lite and Fluff." (For Advertising Purposes for Marabou and Ostich Ornaments.) Philipsborn's, Inc. No. 5,975; Feb. 14.
- "Piano Sale." (For Advertising Purposes for Pianos.) Union Piano Co. Nos. 6,207-8; July 4.
- "Pianos! Pianos!" (For Advertising Purposes for Pianos.) Boston Piano Co. No. 6,195; July 4.
- "Piccadilly Ink." (For Advertising Purposes for Said Ink.) Piccadilly Ink Company. No. 6,246; Aug. 1.
- "Pidgie Pantie-Frock." (For Advertising Purposes for Children's Clothing.) Brohman Company. No. 5,950; Feb. 14.
- "Plumb Double Life." (For Advertising Purposes for Files.) Fayette R. Plumb, Inc. No. 6,288; Aug. 29.
- "Pointex." (For Advertising Purposes for Hosiery.) Emery & Beers Company. No. 6,275; Aug. 29.
- "Polar Patties." (For Advertising Purposes for a Confection Comprising Ice Cream as a Principal Ingredient.) William W. Saxe. No. 6,205; July 4.
- "Pretty Girls Have Always Known the Secret." (For Advertising Purposes for Palmolive Soap.) Palmolive Company. No. 6,117; May 9.
- "Pretty when she wakes up." (For Advertising Purposes for Palmolive Soap.) The Palmolive Company. No. 6,149; June 6.
- "Prices Little Tropikid is the Symbol." (For Advertising Purposes for Flavoring Extract.) Price Flavoring Extract Co. No. 6,052; Mar. 14.
- "Price's Vanilla Flavors." (For Advertising Purposes for a Flavoring Extract.) Price Flavoring Extract Co. No. 6,050; Mar. 14.
- "Protect Your Feet." (For Advertising Purposes for Alzo Foot Powder or a Preparation for the Feet.) Alfred M. Kronberger. No. 5,966; Feb. 14.
- "Protect Young Teeth." (For Advertising Purposes for Pepsodent Dentifrice.) Pepsodent Company. No. 6,398; Nov. 7.
- "Quality Counts." (For Advertising Purposes for Coffee.) Hills Brothers. No. 6,238; Aug. 1.
- "Racine Heel Protector." (For Advertising Purposes for a Knitted Nonslip Lining.) Milwaukee Paper Box Company. No. 6,148; June 6.
- "Rabbit Way." (For Advertising Purposes for Peanut Butter.) Walter J. Hirsch Company. No. 6,077; Apr. 25.
- "Redglo." (For Advertising Purposes for Coke.) Stewart Sand Company. No. 6,193; June 27.
- "Repair Tool Instruction Chart for Car, Truck, and Tractor." (For Advertising Purposes for Tools to be Used in Connection with the Various Parts of an Automobile and for Instruction to the Parties Using Such Tools to Save Time and Secure Accuracy.) Hinckley-Myers Co. No. 6,300; Sept. 5.
- "Republic Rapid Transit." (For Advertising Purposes for Motor Trucks and Parts Thereof.) Republic Motor Truck Co. Nos. 5,976-8; Feb. 14.
- "Restful Support." (For Advertising Purposes for Shoes.) Lounsbury Soule Co. No. 5,911; Jan. 10.
- "Ribbed Interwoven Socks." (For Advertising Purposes for Hosiery.) Interwoven Stocking Company. No. 6,430; Nov. 21.
- "Ribbons." (For Advertising Purposes for Ribbons.) H. Adler & Bro. No. 5,992; Feb. 28.
- "Rice's Early Fortune Cucumber." (For Advertising Purposes for Cucumbers.) Jerome B. Rice Seed Co. No. 6,268; Aug. 15.
- "Rice's Flower and Vegetable Seed Hanger for 1921." (For Advertising Purposes for Flower and Vegetable Seeds.) Jerome B. Rice Seed Co. No. 5,914; Jan. 10.
- "Roberta Sugar Wafers." (For Advertising Purposes for Sugar Wafers with Cream Filling.) Milwaukee Paper Box Company. No. 6,112; May 9.
- "Rockwood Paper Pulleys." (For Advertising Purposes for Power Transmission Pulleys.) Rockwood Manufacturing Company. No. 6,175; June 20.
- "Roulette." (For Advertising Purposes for a Game.) Roulette Company. No. 6,303; Sept. 5.
- "Say Ben-Gay." (For Advertising Purposes for Baume Bengué.) T. Seltzer. No. 6,177; June 20.
- "Say Buick." (For Advertising Purposes for Automobiles.) A. E. Thompson. No. 6,304; Sept. 5.
- "Scientific Control vs. Indiscriminate Feeding." (For Advertising Purposes for Mead's Infant Diet Materials.) Mead Johnson & Company. No. 6,216; July 18.
- "See the Shadow in the Exposed Process." (For Advertising Purposes for the 100-Candle-Power Cameron's Right Angle Dentalamp.) Cameron's Surgical Specialty Co. No. 5,997; Feb. 28.
- "Service." (For Advertising Purposes for Automobile Accessories.) Russell H. Carley. No. 5,998; Feb. 28.
- "Sexton Balloon Seat Underwear." (For Advertising Purposes for Athletic Underwear.) Sexton Manufacturing Company. No. 6,329; Oct. 10.
- "Shave the easiest way with Mennen Shaving Cream and finish a Good Job with 'Talcum For Men'." (For Advertising Purposes for Mennen's Shaving Cream and Mennen's Talcum Powder.) Mennen Company. No. 6,391; Nov. 7.
- "Shaves by Mail?" (For Advertising Purposes for Razor Blades.) Greist Mfg Co. No. 6,127; May 16.
- "Silver Buckle Raisins." (For Advertising Purposes for Raisins.) Milwaukee Paper Box Co. No. 5,972; Feb. 14.
- "Simon's Pocket-Jerkin." (For Advertising Purposes for Our Leather Woolen-Cloth-Lined Vests with Pockets.) The Simon Coat Co. No. 6,248; Aug. 1.

Alphabetical list of prints—Continued.

- "Singer Electric Fans." (For Advertising Purposes for Electric Fans.) Singer Manufacturing Company. No. 6,221; July 18.
- "Singer Portable Electric." (For Advertising Purposes for Portable Electric Sewing Machines.) Singer Manufacturing Company. No. 6,220; July 18.
- "Singer Sewing Motor." (For Advertising Purposes for Sewing Motors.) Singer Manufacturing Company. No. 6,219; July 18.
- "Snap-On More than a Curtain Rod." (For Advertising Purposes for a Curtain Rod.) S. W. Long. No. 6,264; Aug. 15.
- "Snow Peak Freezer." (For Advertising Purposes for Ice-Cream Freezers.) Steinfeld Bros. No. 6,122; May 9.
- "Spear-mint The New Tooth Paste for Children—and for Grown-ups too." (For Advertising Purposes for Tooth Paste.) Wrigley Pharmaceutical Co. No. 6,252; Aug. 1.
- "Special introductory offer." (For Advertising Purposes for Squibb's Magnesia Dental Cream.) E. R. Squibb & Sons. No. 6,451; Nov. 28.
- "Sport Trousers." (For Advertising Purposes for White Duck Clothing.) James E. Richards Company. No. 5,989; Feb. 21.
- "Sport Trousers." (For Advertising Purposes for White Duck Clothing.) James E. Richards Company. No. 6,218; July 18.
- "Spuds." (For Advertising Purposes for a Candy Specialty.) Milwaukee Paper Box Company. No. 6,301; Sept. 5.
- "Square D Safety Switch." (For Advertising Purposes for Electric Switches.) Square D Company. No. 6,340; Oct. 17.
- "Sta-Brite." (For Advertising Purposes for Automobile Paints.) Sta-Brite Auto Painting Co. No. 6,310; Sept. 12.
- "Standing Fisherman." (For Advertising Purposes for Fishing Tackle.) Enterprise Manufacturing Company. No. 6,276; Aug. 29.
- "Stays Neat." (For Advertising Purposes for Mattresses.) L. I. Cohn. No. 6,274; Aug. 29.
- "Steinfast Through the Years." (For Advertising Purposes for Drugs.) E. R. Squibb & Sons. No. 6,258; Aug. 8.
- "Still—That Schoolgirl Complexion." (For Advertising Purposes for Palmolive Soap.) Palmolive Company. No. 6,317; Oct. 3.
- "Stripy Chipmunk Learns a Lesson." (For Advertising Purposes for Breakfast Food.) Breakfast Brownies Company. No. 6,032; Mar. 14.
- "Summer Days." (For Advertising Purposes for the A. S. Hinds Toilet Preparations.) A. S. Hinds Co. No. 6,362; Oct. 31.
- "Sunny Susan Freckle Cream." (For Advertising Purposes for Freckle Cream.) Sunny Susan Laboratories. No. 6,250; Aug. 1.
- "Swap—for the Mennen Tube." (For Advertising Purposes for Mennen Shaving Cream.) Mennen Company. No. 6,392; Nov. 7.
- "Sybasco." (For Advertising Purposes for Baskets of All Descriptions.) Syracuse Basket Company, Inc. No. 6,311; Sept. 12.
- "Take Home a Brick." (For Advertising Purposes for Ice Cream.) Hendler Creamery Company. No. 6,418; Nov. 14.
- "Take your pick of a Flivverstick." (For Advertising Purposes for Candy.) Candy Craft, Inc. No. 6,145; June 6.
- "Taking Industry Out of the Shadow of the Pen." (For Advertising Purposes for Bookkeeping Machines.) Harry C. Michaels Co. No. 5,971; Feb. 14.
- "Teckemeyer's Menthol Hoarhound." (For Advertising Purposes for Menthol Hoarhound Drops.) Milwaukee Paper Box Company. No. 6,284; Aug. 29.
- "Tempered Motor Oil." (For Advertising Purposes for Motor-Lubricating Oil.) Wadhams Motor Lubricating Oil. No. 6,321; Oct. 3.
- "Tennis Shirts." (For Advertising Purposes for White Duck Clothing.) James E. Richards Company. No. 6,449; Nov. 28.
- "That Nutty Flavor." (For Advertising Purposes for a Cereal Known as Parched Wheat.) Parched Wheat Co. No. 6,338; Oct. 17.
- "That Real Old-Fashioned Flavor." (For Advertising Purposes for Beech-Nut Brand Pork and Beans.) Beech-Nut Packing Company. No. 5,996; Feb. 28.
- "The Best Policy." (For Advertising Purposes for Wheat Breakfast Food.) Cream of Wheat Co. No. 6,260; Aug. 15.
- "The Brownies Advise the Field Mice." (For Advertising Purposes for Breakfast Food.) Breakfast Brownies Company. No. 6,023; Mar. 14.
- "The Brownies Comfort the Sad Yellow Birds." (For Advertising Purposes for Breakfast Food.) Breakfast Brownies Company. No. 6,037; Mar. 14.
- "The Brownies Find the Little Fawn." (For Advertising Purposes for Breakfast Food.) Breakfast Brownies Company. No. 6,035; Mar. 14.
- "The Brownies Hide from Horny Owl." (For Advertising Purposes for Breakfast Food.) Breakfast Brownies Company. No. 6,034; Mar. 14.
- "The Brownies Pat the Porcupine." (For Advertising Purposes for Breakfast Foods.) Breakfast Brownies Company. No. 6,033; Mar. 14.
- "The Brownies Three Take Up Toe Dancing." (For Advertising Purposes for Breakfast Food.) Breakfast Brownies Company. No. 6,025; Mar. 14.
- "The Brownies Visit Old Chuckle Woodchuck the Ground-Hog." (For Advertising Purposes for Breakfast Food.) Breakfast Brownies Company. No. 6,029; Mar. 14.
- "The Bungalow Man." (For Advertising Purposes for Dwelling Houses.) W. G. Truettner. No. 6,319; Oct. 3.
- "The Bunny and the Rose Bushes." (For Advertising Purposes for Breakfast Food.) Breakfast Brownies Company. No. 6,024; Mar. 14.
- "The Celebrated Dill's Best." (For Advertising Purposes for Smoking Tobacco and Other Tobacco Products.) J. G. Dill Company. No. 6,382; Nov. 7.
- "The Choice of Hosts." (For Advertising Purposes for Coffee.) Hills Bros. No. 6,087; May 2.
- "The Complete Dormant Spray." (For Advertising Purposes for Scalegide for the Protection of Trees Against Insects and Fungous Growths.) B. G. Pratt Company. No. 6,289; Aug. 29.
- "The Elgin Economy Watch." (For Advertising Purposes for Watches.) Elgin National Watch Company. No. 5,985; Feb. 21.
- "The Estey Residence Pipe Organ." (For Advertising Purposes for The Estey Residence Pipe Organ.) Estey Organ Co. No. 6,199; July 4.
- "The Farm Scene." (For Advertising Purposes for Jell-O.) Genesee Pure Food Company. No. 5,922; Jan. 17.
- "The Feet and Their Clothing." (For Advertising Purposes for Shoes.) Lounsbury Soule Co. No. 5,908; Jan. 10.
- "The Filling Station." (For Advertising Purposes for Wheat Breakfast Food.) Cream of Wheat Co. No. 6,294; Sept. 5.
- "The Finishing Touch." (For Advertising Purposes for Wall Paper.) M. Rosenberger. No. 6,339; Oct. 17.
- "The Friendly Frog Teaches Swimming." (For Advertising Purposes for Breakfast Food.) Breakfast Brownies Company. No. 6,026; Mar. 14.
- "The girl or the car?" (For Advertising Purposes for Effecto Auto Finishes.) Pratt & Lambert—Inc. No. 6,433; Nov. 21.
- "The glory of charm." (For Advertising Purposes for Vitralite the Long-Life Enamel.) Pratt & Lambert—Inc. No. 6,446; Nov. 28.
- "The Graphic Duplicator." (For Advertising Purposes for Duplicating Machines.) David Hyams. No. 5,960; Feb. 14.
- "The Great Bird Puzzles the Brownies." (For Advertising Purposes for Breakfast Food.) Breakfast Brownies Company. No. 6,181; June 27.
- "The Greater Responsibility." (For Advertising Purposes for Drugs.) E. R. Squibb & Sons. No. 6,143; May 30.
- "The Happiest Time of Her Life." (For Advertising Purposes for Palmolive Soap.) Palmolive Company. No. 6,045; Mar. 14.
- "The Hawaiian Electric Co. Ltd. For Progressive Hawaii We Light the Way." (For Advertising Purposes for Electrical Supplies.) The Hawaiian Electric Company Ltd. No. 6,059; Apr. 4.
- "The 'Hidden Spring'." (For Advertising Purposes for Shoes.) Lounsbury Soule Co. No. 5,912; Jan. 10.
- "The 'Him' Handout That Rings the Christmas Chimes!" (For Advertising Purposes for Smoking Tobacco.) R. J. Reynolds Tobacco Company. No. 6,063; Apr. 4.
- "The Kinder-Garten Kids." (For Advertising Purposes for Shoes.) Smith Wallace Shoe Company. No. 5,948; Jan. 31.
- "The Last Word in Obstetrics." (For Advertising Purposes for Obstetrical Tables.) J. H. Thomsen. No. 6,269; Aug. 15.
- "The lure of the brush." (For Advertising Purposes for Effecto Auto Finishes.) Pratt & Lambert—Inc. No. 6,432; Nov. 21.
- "The magic of the paint brush." (For Advertising Purposes for "61" Floor Varnish.) Pratt & Lambert—Inc. No. 6,434; Nov. 21.
- "The Man in The Moon Brings Cheerfulness over Night." (For Advertising Purposes for Laxative Tablets.) J. M. Kappus. No. 6,107; May 9.
- "The Menter Plan of Home Budgets." (For Advertising Purposes for an Account Book Called The Menter Plan of Home Budgets.) Menter Co., Inc. No. 6,165; June 20.
- "The Mission Scene." (For Advertising Purposes for Jell-O, a Dessert Preparation.) Genesee Pure Food Company. No. 5,959; Feb. 14.
- "The Neglected Inch." (For Advertising Purposes for Casters.) Bassick Company. No. 5,982; Feb. 21.
- "The New Improved Four Passenger Haynes 75 Tourister." (For Advertising Purposes for Automobiles.) Haynes Automobile Company. No. 6,325; Oct. 10.
- "The New Improved Seven Passenger Haynes 75 Touring Car." (For Advertising Purposes for Automobiles.) Haynes Automobile Company. No. 6,200; July 4.

- "The New 1922 Five Passenger Haynes 55 Sedan." (For Advertising Purposes for Automobiles.) Haynes Automobile Company. No. 5,962; Feb. 14.
- "The New 1922 Five Passenger Haynes 75 Brougham." (For Advertising Purposes for Automobiles.) Haynes Automobile Company. No. 5,961; Feb. 14.
- "The New Three Passenger Haynes 55 Coupelct." (For Advertising Purposes for Automobiles.) Haynes Automobile Company. No. 6,133; May 30.
- "The Next Time You Make Cake." (For Advertising Purposes for a Flavoring Extract.) Price Flavoring Extract Co. No. 6,051; Mar. 14.
- "The Nightmare." (For Advertising Purposes for Jell-O, a Dessert Preparation.) Genesee Pure Food Co. No. 6,084; May 2.
- "The 1921 Jell-O Salad." (For Advertising Purposes for Jell-O.) Genesee Pure Food Company. No. 5,921; Jan. 17.
- "The Original Doctor John Sloan Liniment." (For Advertising Purposes for a Liniment for Use on Man or Beast.) F. C. Wade. No. 6,125; May 9.
- "The Overheating Sprint and the Drafty Train Are Neutralized by this Underwear." (For Advertising Purposes for Men's and Boys' Underwear.) Wright's Underwear Company. No. 6,455; Dec. 5.
- "The Pageant Of Time." (For Advertising Purposes for Watches.) Elgin National Watch Company. No. 6,104; May 9.
- "The Pencil with a Mission." (For Advertising Purposes for Pencils.) Listo Pencil Company. No. 5,969; Feb. 14.
- "The Phillips Cuff Shirt." (For Advertising Purposes for Shirts Provided with a Special Kind of Cuff.) Phillips-Jones Corporation. No. 6,010; Feb. 28.
- "The Phillips Cuff Shirt." (For Advertising Purposes for Shirts.) Phillips-Jones Corporation. No. 6,138; May 30.
- "The Pie in the Pievelepe." (For Advertising Purposes for Pies.) Holbrook Pie Baking Co. Inc. Nos. 6,227-8; July 25.
- "The Plum Pudding." (For Advertising Purposes for Jell-O, a Dessert Preparation.) Genesee Pure Food Company. No. 6,299; Sept. 5.
- "The Powder Base Perfection." (For Advertising Purposes for the A. S. Hinds Co. Toilet Preparations.) A. S. Hinds Co. No. 6,440; Nov. 28.
- "The Priceless Ingredient." (For Advertising Purposes for Drugs.) E. R. Squibb & Sons. No. 6,140; May 30.
- "The 'Priceless Ingredient' is Your Safeguard." (For Advertising Purposes for Drugs.) E. R. Squibbs & Sons. No. 6,423; Nov. 14.
- "The radiance of reflected sunshine." (For Advertising Purposes for Vitralite the Long-Life Enamel.) Pratt & Lambert—Inc. No. 6,445; Nov. 28.
- "The real reason for a pretty skin." (For Advertising Purposes for Palmolive Soap.) Palmolive Company. No. 6,356; Oct. 24.
- "The Right of Way to a Good Breakfast." (For Advertising Purposes for Breakfast Cereals—Namely, Corn Flakes.) Postum Cereal Company, Inc. No. 6,017; Mar. 7.
- "The Right Time for Every Apple." (For Advertising Purposes for Apples.) Wenatchee-Okanogan Co-Operative Federation. No. 6,487; Dec. 26.
- "The Sanitary Talcum Powder Dispenser." (For Advertising Purposes for Packages Containing Talcum-Powder Pads and Talcum-Powder-Pad Holders.) Olafson-Cohen-Anderson Mfg. Co. No. 6,091; May 2.
- "The Six Secrets of an Ideal Shaving Cream." (For Advertising Purposes for Shaving Cream.) Palmolive Company. No. 6,170; June 20.
- "The Sleepy Sparrows Have Company." (For Advertising Purposes for Breakfast Food.) Breakfast Brownies Company. No. 6,028; Mar. 14.
- "The Tea Party." (For Advertising Purposes for Jell-O, a Dessert Preparation.) Genesee Pure Food Company. No. 6,428; Nov. 21.
- "The Turtle Takes an Afternoon Nap." (For Advertising Purposes for Breakfast Food.) Breakfast Brownies Company. No. 6,031; Mar. 14.
- "The 12 Tests." (For Advertising Purposes for Paints.) California Paint Company. No. 6,425; Nov. 21.
- "The Typical Maag Tooth." (For Advertising Purposes for Involute, Spur, Helical, and Herringbone Gearing Made by a Generating Process.) Niles-Bement-Pond Company. No. 6,336; Oct. 17.
- "The Value of Time." (For Advertising Purposes for Watches.) Elgin National Watch Company. No. 6,103; May 9.
- "The Value of TIME." (For Advertising Purposes for Watches.) Elgin National Watch Company. No. 6,146; June 6.
- "The Value of Time." (For Advertising Purposes for Watches.) Elgin National Watch Company. Nos. 6,295-8; Sept. 5.
- "The Value of Time." (For Advertising Purposes for Watches.) Elgin National Watch Company. Nos. 6,404-6; Nov. 14.
- "The Velvet Kind." (For Advertising Purposes for Ice Cream.) Hender Creamery Company. No. 6,417; Nov. 14.
- "The Week-End Box." (For Advertising Purposes for the A. S. Hinds Co. Toilet Preparations.) A. S. Hinds Co. No. 6,441; Nov. 28.
- "The Winner's Cup." (For Advertising Purposes for Gold and Silver Ware.) Chrichton Bros. No. 6,212; July 18.
- "The Wonder Powder For Baby's Skin Irritations." (For Advertising Purposes for Kora-Konia.) Mennen Company. No. 6,373; Oct. 31.
- "The World Knows—." (For Advertising Purposes for Candy.) Aromint Mfg. Company. No. 6,253; Aug. 8.
- "The Write Gift." (For Advertising Purposes for Writing Paper.) J. M. Cecil. No. 6,236; Aug. 1.
- "Therapeutic Traction Couch." (For Advertising Purposes for The Riesland Therapeutic Traction Couch.) D. W. Riesland. Nos. 6,119-20; May 9.
- "This Beauty Every Girl Can Have." (For Advertising Purposes for Palmolive Soap.) Palmolive Company. No. 5,987; Feb. 21.
- "This is Jell-Well." (For Advertising Purposes for a Compound of Sugar, Gelatin, and Fruit Acid.) Miles Manufacturing Company, Incorporated. No. 6,255; Aug. 8.
- "This is the Vehicle that has Standardized the Taxicab Industry in America." (For Advertising Purposes for Taxicabs.) Yellow Cab Manufacturing Company. No. 6,130; May 16.
- "Thomas A. Jenkins Glass Ventilators." (For Advertising Purposes for Glass Ventilators.) Thomas A. Jenkins. No. 5,965; Feb. 14.
- "3 inch of Cream, plenty of water, hot or cold, makes a lather that will tame the toughest beard." (For Advertising Purposes for Mennen's Shaving Cream.) No. 6,390; Nov. 7.
- "3 inch of Mennen shaving cream for a perfect shave." (For Advertising Purposes for Mennen Shaving Cream.) Mennen Company. No. 6,385; Nov. 7.
- "3000 Hours of Solid Comfort." (For Advertising Purposes for Garters.) A. Stein & Company. No. 5,990; Feb. 21.
- "Tiger-Foot." (For Advertising Purposes for Tires.) Standard Tire Company. No. 6,094; May 2.
- "Timbro Cog-Wheel Display of Standard Trade-Marked Parts." (For Advertising Purposes for Shoes.) Timson Bros. No. 5,942; Jan. 17.
- "Titian." (For Advertising Purposes for Kerosene.) H. A. Holgate. No. 5,924; Jan. 17.
- "To Advertise the Stamford Fountain Pen." (For Advertising Purposes for Fountain Pens.) Albert A. Severen. No. 6,192; June 27.
- "To Fair-Minded Men." (For Advertising Purposes for Shaving Cream.) Palmolive Company. No. 6,171; June 20.
- "Toewear Facts." (For Advertising Purposes for Hosiery.) Toewear Hosiery, Inc. No. 6,178; June 20.
- "Travella The Take-Down Umbrella Lessens Travel Worries." (For Advertising Purposes for Umbrellas.) W. Beeher. No. 6,259; Aug. 15.
- "Treasure." (For Advertising Purposes for Coffee.) Hills Bros. No. 6,085; May 2.
- "True Gasoline." (For Advertising Purposes for Internal-Combustion-Engine Gasoline.) Wadhams Oil Company. No. 6,322; Oct. 3.
- "Tubulosophy Tubulosophers." (For Advertising Purposes for Tubular Knit and Woven Neckties.) Willow Weaving Co., Inc. No. 6,083; Apr. 25.
- "U-Tell-'Em' Its Tas Tells." (For Advertising Purposes for Ice Cream.) City Dairy and Ice Cream Co. No. 6,237; Aug. 1.
- "Uncle Tom's Nigger Toe." (For Advertising Purposes for Chocolate Bars Containing a Niggertoe.) Milwaukee Paper Box Company. No. 6,113; May 9.
- "Underwood Soundproof Cabinet." (For Advertising Purposes for Typewriting Machinery.) Underwood Typewriter Company. No. 6,124; May 9.
- "Underwood Standard Portable." (For Advertising Purposes for Typewriting Machines.) Underwood Typewriter Company. No. 5,943; Jan. 17.
- "Union Heart." (For Advertising Purposes for Automobile Tires.) M. Greenspan. No. 6,352; Oct. 24.
- "Universal Hose Clamp Display Stand." (For Advertising Purposes for a Display Stand for Hose Clamps.) Universal Industrial Corporation. No. 6,486; Dec. 26.
- "University." (For Advertising Purposes for Cigars.) J. C. Stowell Company. No. 6,232; July 25.
- "Unmask Your Hidden Beauty." (For Advertising Purposes for Cosmetic Lotions for Beautifying the Skin and Eradicating Blemishes Thereof.) T. J. Newlyn. No. 6,308; Sept. 12.
- "Up in the garret." (For Advertising Purposes for "61" Floor Varnish.) Pratt & Lambert—Inc. No. 6,447; Nov. 28.
- "Van Craft the New Shirt with the Van Heusen Collar Attached." (For Advertising Purposes for Shirts Provided with a Special Kind of Collar.) Phillips-Jones Corporation. No. 6,046; Mar. 14.
- "Van Heusen the World's Smartest Collar." (For Advertising Purposes for Collars.) Phillips-Jones Corporation. No. 6,011; Feb. 28.
- "Van Heusen the World's Smartest Collar." (For Advertising Purposes for Collars.) Phillips-Jones Corporation. No. 6,137; May 30.

Alphabetical list of prints—Continued.

- "Van Heusen the World's Smartest Collar." (For Advertising Purposes for a Special Kind of Collar.) Phillips-Jones Corporation. No. 6,150; June 6.
- "Vanilla Extract is One of the Essentials." (For Advertising Purposes for a Flavoring Extract.) Price Flavoring Extract Co. No. 6,047; Mar. 14.
- "Venus Everpointed." (For Advertising Purposes for Mechanical Pencils.) American Lead Pencil Company. No. 5,916; Jan. 17.
- "Venus Everpointed Pencils." (For Advertising Purposes for Lead Pencils.) American Lead Pencil Company. No. 6,155; June 20.
- "Venus Everpointed Pencils." (For Advertising Purposes for Lead Pencils.) American Lead Pencil Company. No. 6,358; Oct. 31.
- "Venus Pencils." (For Advertising Purposes for Venus Pencils.) American Lead Pencil Co. No. 6,019; Mar. 14.
- "Venus Pencils." (For Advertising Purposes for Venus Pencils.) American Lead Pencil Co. Nos. 6,021-2; Mar. 14.
- "Venus Thin Leads." (For Advertising Purposes for Lead Pencils.) American Lead Pencil Company. No. 6,210; July 15.
- "Vin-Rou." (For Advertising Purposes for a Fruit Beverage.) Western Fruits Products Co. No. 6,235; July 25.
- "Vision Simplified." (For Advertising Purposes for Optical Goods.) H. Milgrom. No. 5,927; Jan. 17.
- "We Guarantee Every Shoe Bearing This Mark." (For Advertising Purposes for Shoes.) J. W. Carter & Company. No. 6,360; Oct. 31.
- "We Match Your Coat and Vest." (For Advertising Purposes for Ready-Made and Made-to-Measure Pants.) L. H. Quint. No. 6,018; Mar. 7.
- "Weigh Lightest Fit Tightest." (For Advertising Purposes for Pistons.) Kant-Skore Piston Company. No. 6,164; June 20.
- "What Does the Letter Say, Jean?" (For Advertising Purposes for Crane's Linen Lawn and Eaton's Highland Linen.) Eaton, Crane & Pike Company. No. 6,039; Mar. 14.
- "What is she saying?" (For Advertising Purposes for Sealpax Athletic Underwear.) The Sealpax Co. No. 6,230; July 25.
- "What is the matter with your hair?" (For Advertising Purposes for Shampoo.) The Palmolive Company. No. 6,229; July 25.
- "What is the matter with your Hair?" (For Advertising Purposes for Shampoo.) The Palmolive Company. No. 6,245; Aug. 1.
- "What Proper Shampooing Does For Your Hair." (For Advertising Purposes for Watkins Multisified Coconut-Oil Shampoo.) R. L. Watkins Company. No. 6,331; Oct. 10.
- "What Proper Shampooing Does For Your Hair." (For Advertising Purposes for Watkins's Multisified Coconut-Oil Shampoo.) R. L. Watkins Company. No. 6,378; Oct. 31.
- "Where Healthy Babies Come From." (For Advertising Purposes for Wheat Breakfast Food.) Cream of Wheat Co. No. 6,162; June 20.
- "Where the '57' began The Little House that was floated down the River." (For Advertising Purposes for Heinz 57 Varieties.) H. J. Heinz Co. No. 6,186; June 27.
- "Wherever the Sun Shines and the Wind Blows." (For Advertising Purposes for Goggles.) Willson Goggles Inc. No. 6,453; Dec. 5.
- "Why Eline's Chocolate is Best." (For Advertising Purposes for Chocolate.) Elines, Incorporated. No. 6,409; Nov. 14.
- "Why fade at 30?" (For Advertising Purposes for Palmolive Soap.) Palmolive Company. No. 6,287; Aug. 29.
- "Why, Man—You'll slip a real wedge into the jimmy pipe game when you turkey-trot with P. A.!" (For Advertising Purposes for Smoking Tobacco.) R. J. Reynolds Tobacco Company. No. 6,062; Apr. 4.
- "Why Millions Eat Them—Heinz Oven Baked Beans." (For Advertising Purposes for Heinz Oven Baked Beans.) H. J. Heinz Co. No. 6,106; May 9.
- "Winfield Method Flash Welding." (For Advertising Purposes for Electric Welding Machines and Methods.) Winfield Electric Welding Machine Co. No. 6,332; Oct. 10.
- "Winner." (For Advertising Purposes for Candy Bars.) Milwaukee Paper Box Company. No. 6,265; Aug. 15.
- "With Brains, Sir." (For Advertising Purposes for Drugs.) E. R. Squibb & Sons. No. 6,141; May 30.
- "Would You Feed Your Child Skimmed Milk?" (For Advertising Purposes for Chocolate.) Eline's Incorporated. No. 6,407; Nov. 14.
- "Would your husband marry you again?" (For Advertising Purposes for Palmolive Soap.) Palmolive Company. No. 6,285; Aug. 29.
- "XXX." (For Advertising Purposes for Hair Bow Ribbons.) H. Adler & Bro. No. 6,096; May 9.
- "Yellow Cab Manufacturing Co." (For Advertising Purposes for Taxicabs.) Yellow Cab Manufacturing Co. No. 6,129; May 16.
- "Yellow Cabs Stand the Gaff." (For Advertising Purposes for Taxicabs.) Yellow Cab Manufacturing Co. No. 6,153; June 6.
- "Yellow Cabs take the Tax out of Taxicab." (For Advertising Purposes for Taxicabs.) Yellow Cab Manufacturing Co. No. 6,152; June 6.
- "You Sell Quality." (For Advertising Purposes for a Flavoring Extract.) Price Flavoring Extract Co. No. 6,048; Mar. 14.
- "Your boy will eat almost any thing that tastes good." (For Advertising Purposes for Heinz Pure Food Products.) H. J. Heinz Co. No. 6,187; June 27.
- "You're Building a Good Safe Foundation." (For Advertising Purposes for a Flavoring Extract.) Price Flavoring Extract Co. No. 6,049; Mar. 14.
- "Youth, an old car." (For Advertising Purposes for Effecto Auto Finishes.) Pratt & Lambert—Inc. No. 6,448; Nov. 28.
- "Yum Yum." (For Advertising Purposes for a Candy Specialty.) Milwaukee Paper Box Company. No. 6,242; Aug. 1.

DISCLAIMERS.

- Calculating machine. A. F. Poole. No. 1,196,885; date of patent Sept. 5, 1916; disclaimer filed Dec. 23, 1921; v. 294; p. 1.
- Car wheel, Self-oiling. R. F. Phillips. No. 828,242; date of patent Aug. 7, 1906; disclaimer filed May 15, 1922; v. 298; p. 871, and v. 301; p. 1.
- Carrier-dispatch systems, Central-station apparatus for. F. G. Whittier. No. 1,365,428; date of patent Jan. 11, 1921; disclaimer filed Jan. 7, 1922; v. 294; p. 635.
- Computing machine. L. E. Giles. No. 1,370,427; date of patent Mar. 1, 1921; disclaimer filed Oct. 6, 1922; v. 303; p. 401.
- Drying molds. T. P. Anthony. No. 1,386,593; date of patent Aug. 9, 1921; disclaimer filed Mar. 17, 1922; v. 296; p. 840.
- Electric heater. E. N. Lightfoot. No. 1,359,400; date of patent Nov. 16, 1920; disclaimer filed Apr. 25, 1922; v. 298; p. 416.
- Electric welding. P. O. Noble. No. 1,310,131; date of patent July 15, 1919; disclaimer filed Apr. 26, 1922; v. 298; p. 416.
- Hot-air pipe. A. G. Scherer. No. 724,210; date of patent Mar. 31, 1903; disclaimer filed Mar. 7, 1922; v. 296; p. 459.
- Mine cars, Running gear for. J. M. and R. F. Phillips. No. 882,533; date of patent Mar. 17, 1908; disclaimer filed May 15, 1922; v. 298; p. 871, and v. 300; p. 412.
- Ore concentration. H. L. Sulman, H. F. Kirkpatrick-Picard, and J. Ballot. No. 835,120; date of patent Nov. 6, 1906; disclaimer filed June 27, 1922; v. 300; p. 412.
- Pickling metal plates and blanks, Machine for. R. S. Smith and E. W. Burgess. No. 1,428,716; date of patent Sept. 12, 1922; disclaimer filed Sept. 25, 1922; v. 303; p. 1.
- Pipe joint. H. Morris. No. 872,442; date of patent Dec. 3, 1907; disclaimer filed Nov. 29, 1922; v. 305; p. 422.
- Pneumatic tires, Valve for. W. P. and T. A. Hammond. No. 1,035,185; date of patent Aug. 13, 1912; disclaimer filed July 14, 1922; v. 300; p. 621.
- Pressure indicator and regulator. R. Faries. No. 899,446; date of patent Sept. 22, 1908; disclaimer filed July 14, 1922; v. 300; p. 621.
- Ribbon mechanism. M. W. Hazen. No. 1,121,097; date of patent Dec. 15, 1914; disclaimer filed Oct. 10, 1922; v. 303; p. 854.
- Roof of open-hearth and reverberatory furnaces, Construction of. G. C. Carson. No. 1,302,307; date of patent Apr. 29, 1919; disclaimer filed Mar. 29, 1922; v. 297; p. 400, and v. 302; p. 782.
- Rope-computing machine. C. A. Benbow. No. 936,078; date of patent Oct. 5, 1909; disclaimer filed Apr. 27, 1922; v. 298; p. 416.
- Signaling apparatus. A. Andr  n. No. 1,109,950; date of patent Sept. 8, 1914; disclaimer filed June 21, 1922; v. 299; p. 872.
- Silica gel and process of making same. W. A. Patrick. No. 1,297,724; date of patent Mar. 18, 1919; disclaimer filed Oct. 12, 1922; v. 304; p. 1.
- Telephone-exchange automatic switching system. E. A. Mellinger. No. 1,343,462; date of patent June 15, 1920; disclaimer filed Apr. 5, 1922; v. 297; p. 401.
- Thermo-electric circuit breaker. E. W. Leeper. No. 997,838; date of patent July 11, 1911; disclaimer filed Jan. 13, 1922; v. 294; p. 635.
- Tobacco-stemming machine. L. W. Lawrence. No. 1,267,776; date of patent May 28, 1918; disclaimer filed Apr. 22, 1922; v. 298; p. 416.
- Typewriters, Escapement mechanism for. F. S. Rose, (Reissue.) No. 13,935; date of patent June 22, 1915; disclaimer filed Oct. 10, 1922; v. 303; p. 853.
- Typewriting and computing machine, Combined. H. L. Pitman. No. 1,245,501; date of patent Nov. 6, 1917; disclaimer filed Oct. 19, 1922; v. 304; p. 1.
- Typewriting machine. M. W. Hazen. No. 1,121,094; date of patent Dec. 15, 1914; disclaimer filed Oct. 10, 1922; v. 303; p. 854.
- Typewriting machine. O. Petermann. No. 1,064,372; date of patent June 10, 1913; disclaimer filed Oct. 10, 1922; v. 303; p. 854.
- Typewriting machine. O. Petermann. (Reissue.) No. 14,599; date of patent Feb. 25, 1919; disclaimer filed Oct. 10, 1922; v. 303; p. 853.
- Typewriting machine. A. G. F. Kurowski. No. 1,121,638; date of patent Dec. 22, 1914; disclaimer filed Oct. 21, 1922; v. 304; p. 1.
- Typewriting machine. B. C. Stickney. No. 1,293,235; date of patent Feb. 4, 1919; disclaimer filed Nov. 16, 1922; v. 304; p. 834.
- Typewriting machine, Feed mechanism for. O. Petermann. No. 1,121,033; date of patent Dec. 15, 1914; disclaimer filed Oct. 10, 1922; v. 303; p. 854.

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